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**GROUNDWATER MONITORING  
VALIDATED ANALYTICAL RESULTS FOR THE SECOND 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

October 1998



**PARSONS ENGINEERING SCIENCE, INC.**

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October 12, 1998  
730769-01006

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 Second Quarter 1998 Groundwater Monitoring  
Seneca Army Depot Activity, Romulus, New York**

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Dear Mr. Absolom:

The enclosed report summarizes the results of the 1998 Second 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.2.

**Field Activities**

Water level measurements were performed on 49 monitoring wells at the Ash Landfill. VOC groundwater samples were collected from 22 monitoring wells including the 3 farmhouse wells. TAL Metals groundwater samples were collected from 4 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 June 16, 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**

The groundwater samples were collected June 16-20, 1998 and shipped via chain-of-custody to Intertek Testing Services and Evergreen Analytical. Fifteen monitoring wells were analyzed for Method 524.4 volatile organics and 7 monitoring wells were analyzed for TCL volatile organics. 4 wells were analyzed for Cadmium, Chromium, Lead, Manganese, and Nickel and 19 wells were analyzed for the indicator compounds methane/ethane/ethene, chlorides, sulfates, ferrous iron (fe+2), dissolved organic carbon





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(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 increased slightly from the previous quarter. The concentration of cis-1,2-dichloroethene increased from the last quarter at 0.68 ug/l to 1.3 ug/l. MW-56 is the furthest downgradient off-site well with detectable levels of VOCs.

Wells showing an increase in concentrations of VOCs from the previous quarter of sampling (March 1998) are PT-12(14%), PT18(295%), PT-21A(89%), PT-24(41%), MW-27(41%), MW-29(43%), MW-30(.5%), and MW-44 (237 %). Wells showing a decrease in VOC concentrations from the previous quarter of sampling are PT-11(85%) and MW-46 (60%). Wells that continue to exhibit non-detectable levels from the previous quarter of sampling are PT-19, MW-36, MW-40, MW-45 MW-47, MW-48, MW-59 and MW-60.

**Appendix B** shows the historical data tables and 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.

Four monitoring wells (PT-18, MW-29, MW-44A, MW-45) were sampled for the TAL metals cadmium, chromium, lead, manganese, and nickel using the EPA Region II Low Flow Groundwater Sampling procedures. Cadmium, chromium, and lead were not detected in any groundwater samples. Nickel was detected in one monitoring well (PT-18) and manganese was detected in all four monitoring wells. The NYSDEC Class GA Ambient Groundwater Quality Standard (AWQS) for manganese (300 ug/l) was exceeded in only one monitoring well (MW-44A). The concentration of nickel (4 ug/l) in PT-18 was well below the AWQS of 100 ug/l.



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**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 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 19 wells. Anaerobic bacteria generally cannot function at dissolved oxygen levels greater than 0.5 mg/l. 9 of the 19 wells tested, showed concentrations of dissolved oxygen equal to, or less than 0.5 mg/l. Many of the lower values of DO were measured in wells located in the VOC plume area. This parameter was measured in the field to ensure accurate results. The 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 95 mV in PT-19 to 376 mV in PT-12. 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<sup>+2</sup>) 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,

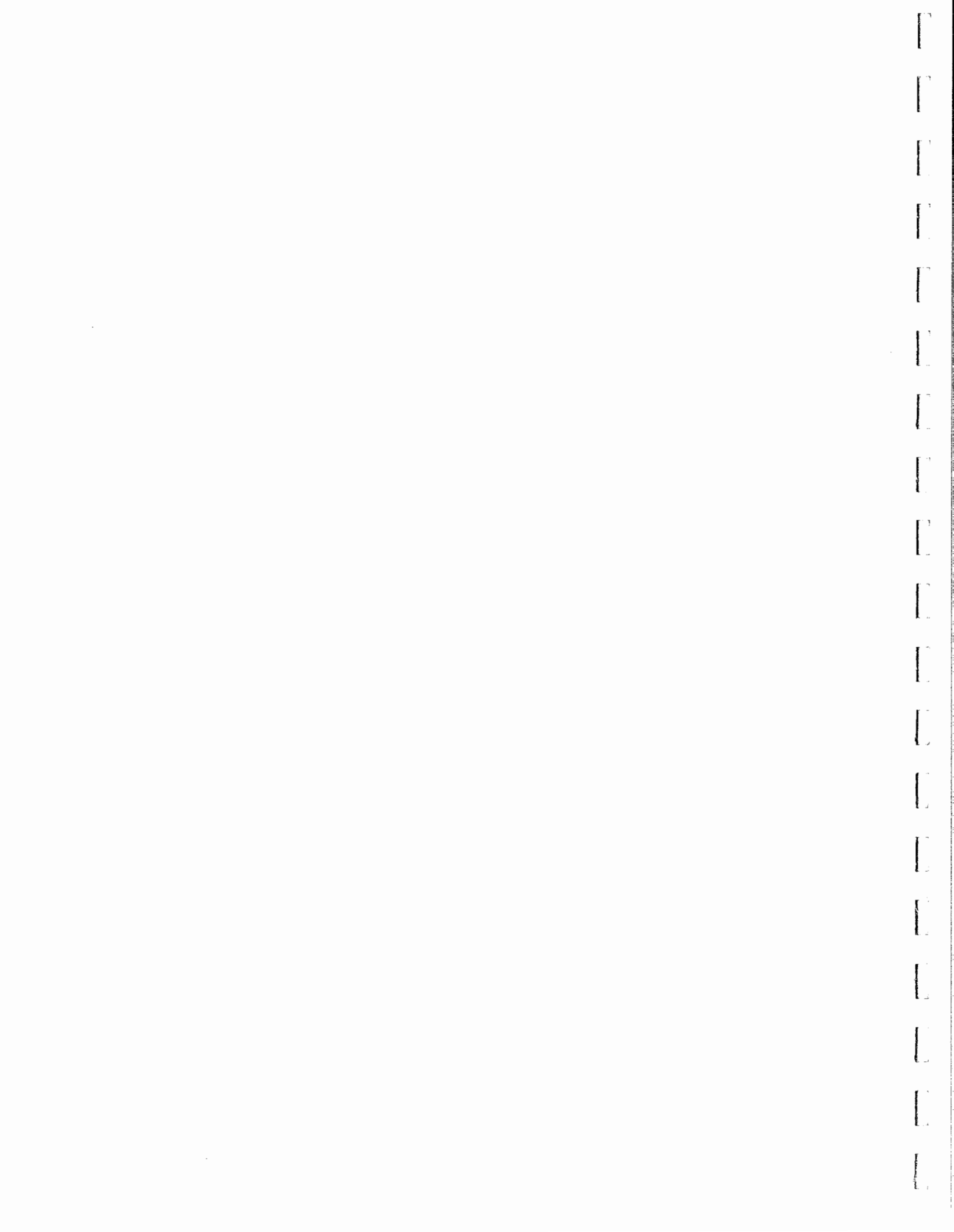
**PARSONS ENGINEERING SCIENCE, INC.**

  
Michael Duchesneau, P.E.  
Project Manager

Enclosures (3)

cc: Ms. Laura Percifield, CEMRD (1)  
Ms. Patricia Allen, CEHNC (2)  
Mr. Randall Battaglia, CENAN (1)  
Mr. John Buck, AEC (1)

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Mr. Keith Hoddinott, USACHPPM (1)

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ASH LANDFILL, SENECA ARMY DEPOT**

**PREPARED FOR :**  
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## TABLES

Table 1	Groundwater Elevation Data
Table 2	Validated Volatile Organic Analysis Results (524.2)
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  
SECOND QUARTER 1998  
ASH LANDFILL**

Monitoring Well	Elevation at Top of Riser (MSL)	First Quarter 1997			Second Quarter 1997			First Quarter 1998			Second 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.)	Date	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)	
PT-10	681.52	03/18/97	5.3	676.22	06/17/97	9.03	672.49	03/23/98	4.62	676.9	06/16/98	6.3	675.22	A
PT-11	658.22	03/18/97	4.41	653.81	06/17/97	6.23	651.99	03/23/98	4.24	653.98	06/16/98	4.43	653.79	D
PT-12A	652.15	03/18/97	5.85	646.3	06/17/97	7.53	644.62	03/23/98	3.14	649.01	06/16/98	5.25	646.9	C (0.3')
PT-15	637.76	03/18/97	4.59	633.17	06/17/97	6.48	631.28	03/23/98	4.02	633.74	06/16/98	7.14	630.62	D
PT-16	637.51	03/18/97	2.93	634.58	06/17/97	4.05	633.46	03/23/98	2.8	634.71	06/16/98	3.8	633.71	A
PT-17	640.14	03/18/97	4.75	635.39	06/17/97	7.4	632.74	03/23/98	4.29	635.85	06/16/98	4.97	635.17	ok
PT-18	656.68	03/18/97	5.55	651.13	06/17/97	7.09	649.59	03/23/98	4.4	652.28	06/16/98	6.34	650.34	F
PT-19	645.26	03/18/97	3.34	641.92	06/17/97	5.34	639.92	03/23/98	2.17	643.09	06/16/98	4.9	640.36	Riser seperated below G.S.
PT-20	647.28	03/18/97	5.72	641.56	06/17/97	7.21	640.07	03/23/98	4.94	642.34	06/16/98	5.69	641.59	D
PT-21A	647.73	03/18/97	5.19	642.54	06/17/97	8.21	639.52	03/23/98	3.89	643.84	06/16/98	6.46	641.27	C (0.3')
PT-22	648.61	03/18/97	6.63	641.98	06/17/97	7.61	641	03/23/98	4.31	644.3	06/16/98	5.96	641.65	D
PT-23	641.58	03/18/97	3.94	637.64	06/17/97	6.37	635.21	03/23/98	3.66	637.92	06/16/98	4.02	637.56	A
PT-24	636.40	03/18/97	4.69	631.71	06/17/97	5.04	631.36	03/23/98	3.64	632.76	06/16/98	4.69	631.71	D, G
PT-25	637.09	03/18/97	3.92	633.17	06/17/97	5.96	631.13	03/23/98	3.58	633.51	06/16/98	4.48	632.61	D
PT-26	614.64	03/18/97	Not Measured	Not Measured	06/17/97	Not Measured	Not Measured	03/23/98	3.04	611.6	06/16/98	Not Measured	N/A	Unknown
MW-27	639.32	03/18/97	5.25	634.07	06/17/97	6.48	632.84	03/23/98	4.44	634.88	06/16/98	5.36	633.96	D
MW-28	637.21	03/18/97	5.18	632.03	06/17/97	5.61	631.6	03/23/98	4.64	632.57	06/16/98	5.14	632.07	D
MW-29	637.31	03/18/97	6.09	631.22	06/17/97	6.65	630.66	03/23/98	6.1	631.21	06/16/98	6.39	630.92	D
MW-30	640.32	03/18/97	4.33	635.99	06/17/97	8.35	631.97	03/23/98	3.94	636.38	06/16/98	5.32	635	D, F
MW-31	636.70	03/18/97	2.96	633.74	06/17/97	5.3	631.4	03/23/98	2.48	634.22	06/16/98	3.62	633.08	D
MW-32	641.68	03/18/97	4.95	636.73	06/17/97	7.93	633.75	03/23/98	3.84	637.84	06/16/98	6.23	635.45	D
MW-33	639.56	03/18/97	4.44	635.12	06/17/97	7.45	632.11	03/23/98	3.91	635.65	06/16/98	6.17	633.39	D, E
MW-34	632.89	03/18/97	3.22	629.67	06/17/97	4.63	628.26	03/23/98	2.74	630.15	06/16/98	3.73	629.16	C (0.2'), F
MW-35D	631.82	03/18/97	Not Measured	Not Measured	06/17/97	Not Measured	Not Measured	03/23/98	2.6	629.22	06/16/98	2.4	629.22	A, F
MW-36	631.79	03/18/97	2.46	629.33	06/17/97	3.58	628.21	03/23/98	2.60	629.19	06/16/98	2.57	629.22	F
MW-37	632.89	03/18/97	2.59	630.3	06/17/97	Not Measured	Not Measured	03/23/98	2.51	630.38	06/16/98	2.75	630.38	ok
MW-38D	637.90	03/18/97	3.61	634.29	06/17/97	Not Measured	Not Measured	03/23/98	3.48	635.39	06/16/98	3.65	635.39	C (0.2')
MW-39	659.54	03/18/97	1.78	657.76	06/17/97	2.09	657.45	03/23/98	1.7	657.84	06/16/98	1.82	657.72	B
MW-40	659.30	03/18/97	3.64	655.66	06/17/97	5.78	653.52	03/23/98	3.45	655.85	06/16/98	4.14	655.16	C (0.4')
MW-41D	694.02	03/18/97	6.45	687.57	06/17/97	Not Measured	Not Measured	03/23/98	8.12	685.9	06/16/98	Not Measured	N/A	Unknown
MW-42D	683.04	03/18/97	2.61	680.43	06/17/97	4.73	678.31	03/23/98	2.37	680.67	06/16/98	3.34	679.7	ok
MW-43	657.73	03/18/97	3.84	653.89	06/17/97	3.72	654.01	03/23/98	2.6	655.13	06/16/98	2.81	654.92	A
MW-44A	653.85	03/18/97	4.7	649.15	06/17/97	6.9	646.95	03/23/98	3.48	650.37	06/16/98	6.73	647.12	C (0.5')
MW-45	650.90	03/18/97	2.83	648.07	06/17/97	3.9	647	03/23/98	2.85	648.05	06/16/98	2.83	648.07	C (0.25')
MW-46	650.41	03/18/97	4.51	645.9	06/17/97	6.06	644.35	03/23/98	2.88	647.53	06/16/98	4.12	646.29	ok
MW-47	628.06	03/18/97	2.88	625.18	06/17/97	4.22	623.84	03/23/98	2.3	625.76	06/16/98	3.06	625	B
MW-48	648.32	03/18/97	3.31	645.01	06/17/97	5.3	643.02	03/23/98	2.86	645.46	06/16/98	3.29	645.03	C (0.25')
MW-49D	650.50	03/18/97	4.32	646.18	06/17/97	5.91	644.59	03/23/98	2.88	647.62	06/16/98	4.07	646.43	A
MW-50D	649.88	03/18/97	4.09	645.79	06/17/97	5.88	644	03/23/98	2.48	647.4	06/16/98	3.99	645.89	ok
MW-51D	628.24	03/18/97	3	625.24	06/17/97	4.35	623.89	03/23/98	2.35	625.89	06/16/98	3.14	625.1	B
MW-52D	626.35	03/18/97	2.6	623.75	06/17/97	3.62	622.73	03/23/98	2.3	624.05	06/16/98	2.73	623.62	A
MW-53	639.41	03/18/97	6.6	632.81	06/17/97	7.7	631.71	03/23/98	5.78	633.63	06/16/98	7.01	632.4	ok
MW-54D	639.11	03/18/97	6.56	632.55	06/17/97	7.69	631.42	03/23/98	5.92	633.19	06/16/98	6.94	632.17	ok
MW-55D	639.16	03/18/97	6.36	632.8	06/17/97	7.47	631.69	03/23/98	5.86	633.3	06/16/98	6.84	632.32	B
MW-56	630.51	03/18/97	3.05	627.46	06/17/97	3.48	627.03	03/23/98	3.13	627.38	06/16/98	3.17	627.34	C (0.8'), E & F
MW-57D	629.62	03/18/97	1.95	627.87	06/17/97	2.76	627.06	03/23/98	1.69	628.13	06/16/98	1.95	627.87	C (0.2')
MW-58D	629.69	03/18/97	1.73	627.96	06/17/97	2.56	627.13	03/23/98	1.32	628.37	06/16/98	1.66	628.03	ok
MW-59	656.83	03/18/97	2.16	654.67	06/17/97	2.15	654.66	03/23/98	2.13	654.7	06/16/98	2	654.83	ok
MW-60	660.15	03/18/97	2.14	658.01	06/17/97	2.98	657.17	03/23/98	1.95	658.2	06/16/98	2.14	658.01	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



Table 2

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

SAMPLE ID	AL181	AL179	AL180	AL173	AL174	AL804	AL176
WELL ID	BNS	FHD	FHS	MW27	MW30	MW36(DU)	MW36
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	6/19/98	6/19/98	6/19/98	6/17/98	6/18/98	6/19/98	6/18/98
SDG NO.	69582	69582	69582	69582	69582	69582	69582
COMPOUND	UNITS						
Dichlorodifluoromethane	ug/L	0.5 U	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	0.5 U
Vinyl Chloride	ug/L	0.5 U	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	0.5 U
Chloroethane	ug/L	0.5 U	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	0.5 U
Acetone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	ug/L	0.5 U	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	0.5 U
Carbon Disulfide	ug/L	1 U	1 U	1 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	0.5 U
Methyl-t-Butyl-Ether	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	0.5 U	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	0.5 U
2-Butanone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2,2-Dichloropropane	ug/L	0.5 U	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	0.5 U
Bromochloromethane	ug/L	0.5 U	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	0.5 U
1,1-Dichloropropene	ug/L	0.5 U	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	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	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	0.5 U
Trichloroethene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.52	0.5 U
1,2-Dichloropropane	ug/L	0.5 U	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	0.5 U
Dibromomethane	ug/L	0.5 U	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	2.5 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	ug/L	0.5 U	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	0.5 U
1,1,2-Trichloroethane	ug/L	0.5 U	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	2.5 U
1,3 - Dichloropropene	ug/L	0.5 U	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	0.5 U
Tetrahydrofuran	ug/L	2.5 U	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	0.5 U
1,2-Dibromoethane	ug/L	0.5 U	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	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	0.5 U
Ethylbenzene	ug/L	0.5 U	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	0.5 U
Styrene	ug/L	0.5 U	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	0.5 U
Isopropylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U



Table 2

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

SAMPLE ID	AL181	AL179	AL180	AL173	AL174	AL804	AL176
WELL ID	BNS	FHD	FHS	MW27	MW30	MW36(DU)	MW36
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	6/19/98	6/19/98	6/19/98	6/17/98	6/18/98	6/19/98	6/18/98
SDG NO.	69582	69582	69582	69582	69582	69582	69582
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	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	0.5 U
Bromobenzene	ug/L	0.5 U	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	0.5 U
2-Chlorotoluene	ug/L	0.5 U	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	0.5 U
4-Chlorotoluene	ug/L	0.5 U	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	0.5 U
1,2,4-Trimethylbenzene	ug/L	0.5 U	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	0.5 U
p-Isopropyltoluene	ug/L	0.5 U	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	0.5 U
1,4-Dichlorobenzene	ug/L	0.5 U	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	0.5 U
1,2-Dichlorobenzene	ug/L	0.5 U	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	0.5 U
1,2,4-Trichlorobenzene	ug/L	0.5 U	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	0.5 U
Naphthalene	ug/L	0.5 U	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	0.5 U
Acrylonitrile	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Allyl Chloride	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1-Chlorobutane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Diethyl Ether	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl Methacrylate	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Hexachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methacrylonitrile	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Acrylate	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Iodide	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Methacrylate	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Pentachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Propionitrile	ug/L	1 U	1 U	1 U	1 U	1 U	1 U





Table 2

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

SAMPLE ID	AL802	AL182	AL184	AL175	AL183	AL177	AL171
WELL ID	MW36(R)	MW40	MW46	MW47	MW48	MW56	MW59
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	6/18/98	6/19/98	6/19/98	6/18/98	6/19/98	6/19/98	6/17/98
SDG NO.	69582	69582	69582	69582	69582	69582	69582
COMPOUND	UNITS						
Dichlorodifluoromethane	ug/L	0.5 U	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	0.5 U
Vinyl Chloride	ug/L	0.5 U	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	0.5 U
Chloroethane	ug/L	0.5 U	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	0.5 U
Acetone	ug/L	3.2	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	ug/L	0.5 U	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	0.5 U
Carbon Disulfide	ug/L	0.5 U	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	0.5 U
Methyl-t-Butyl-Ether	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	0.5 U	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	1.3	0.5 U
2-Butanone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2,2-Dichloropropane	ug/L	0.5 U	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	0.5 U
Bromochloromethane	ug/L	0.5 U	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	0.5 U
1,1-Dichloropropene	ug/L	0.5 U	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	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	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	0.5 U
Trichloroethene	ug/L	0.5 U	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	0.5 U
Bromodichloromethane	ug/L	0.5 U	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	0.5 U
4-Methyl-2-Pentanone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	ug/L	0.5 U	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	0.5 U
1,1,2-Trichloroethane	ug/L	0.5 U	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	2.5 U
1,3 - Dichloropropene	ug/L	0.5 U	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	0.5 U
Tetrahydrofuran	ug/L	2.5 U	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	0.5 U
1,2-Dibromoethane	ug/L	0.5 U	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	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	0.5 U
Ethylbenzene	ug/L	0.5 U	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	0.5 U
Styrene	ug/L	0.5 U	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	0.5 U
Isopropylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U



Table 2

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

SAMPLE ID	AL802	AL182	AL184	AL175	AL183	AL177	AL171
WELL ID	MW36(R)	MW40	MW46	MW47	MW48	MW56	MW59
MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	6/18/98	6/19/98	6/19/98	6/18/98	6/19/98	6/19/98	6/17/98
SDG NO.	69582	69582	69582	69582	69582	69582	69582
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	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	0.5 U
Bromobenzene	ug/L	0.5 U	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	0.5 U
2-Chlorotoluene	ug/L	0.5 U	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	0.5 U
4-Chlorotoluene	ug/L	0.5 U	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	0.5 U
1,2,4-Trimethylbenzene	ug/L	0.5 U	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	0.5 U
p-Isopropyltoluene	ug/L	0.5 U	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	0.5 U
1,4-Dichlorobenzene	ug/L	0.5 U	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	0.5 U
1,2-Dichlorobenzene	ug/L	0.5 U	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	0.5 U
1,2,4-Trichlorobenzene	ug/L	0.5 U	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	0.5 U
Naphthalene	ug/L	0.5 U	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	0.5 U
Acrylonitrile	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Allyl Chloride	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1-Chlorobutane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Diethyl Ether	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl Methacrylate	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Hexachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methacrylonitrile	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Acrylate	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Iodide	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Methacrylate	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Pentachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U
Propionitrile	ug/L	1 U	1 U	1 U	1 U	1 U	1 U



Table 2

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

SAMPLE ID	AL172	AL170	AL178	AL801	AL803	
WELL ID	MW60	PT11	PT19	TB	TB	
MATRIX	WATER	WATER	WATER	WATER	WATER	
SAMPLE DATE	6/17/98	6/16/98	6/16/98	6/18/98	6/19/98	
SDG NO.	69582	69582	69582	69582	69582	
<b>COMPOUND</b>	<b>UNITS</b>					
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	
Acetone	ug/L	2.5 U	2.5 U	2.5 U	1.9 J	5.6
1,1-Dichloroethene	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
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
Methyl-t-Butyl-Ether	ug/L	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	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	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2,2-Dichloropropane	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
Bromochloromethane	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
1,1-Dichloropropene	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
1,2-Dichloroethane	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
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
Bromodichloromethane	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
4-Methyl-2-Pentanone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,3-Dichloropropene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 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
2-Hexanone	ug/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3 - Dichloropropene	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
Tetrahydrofuran	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
Xylene (total)	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
Isopropylbenzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

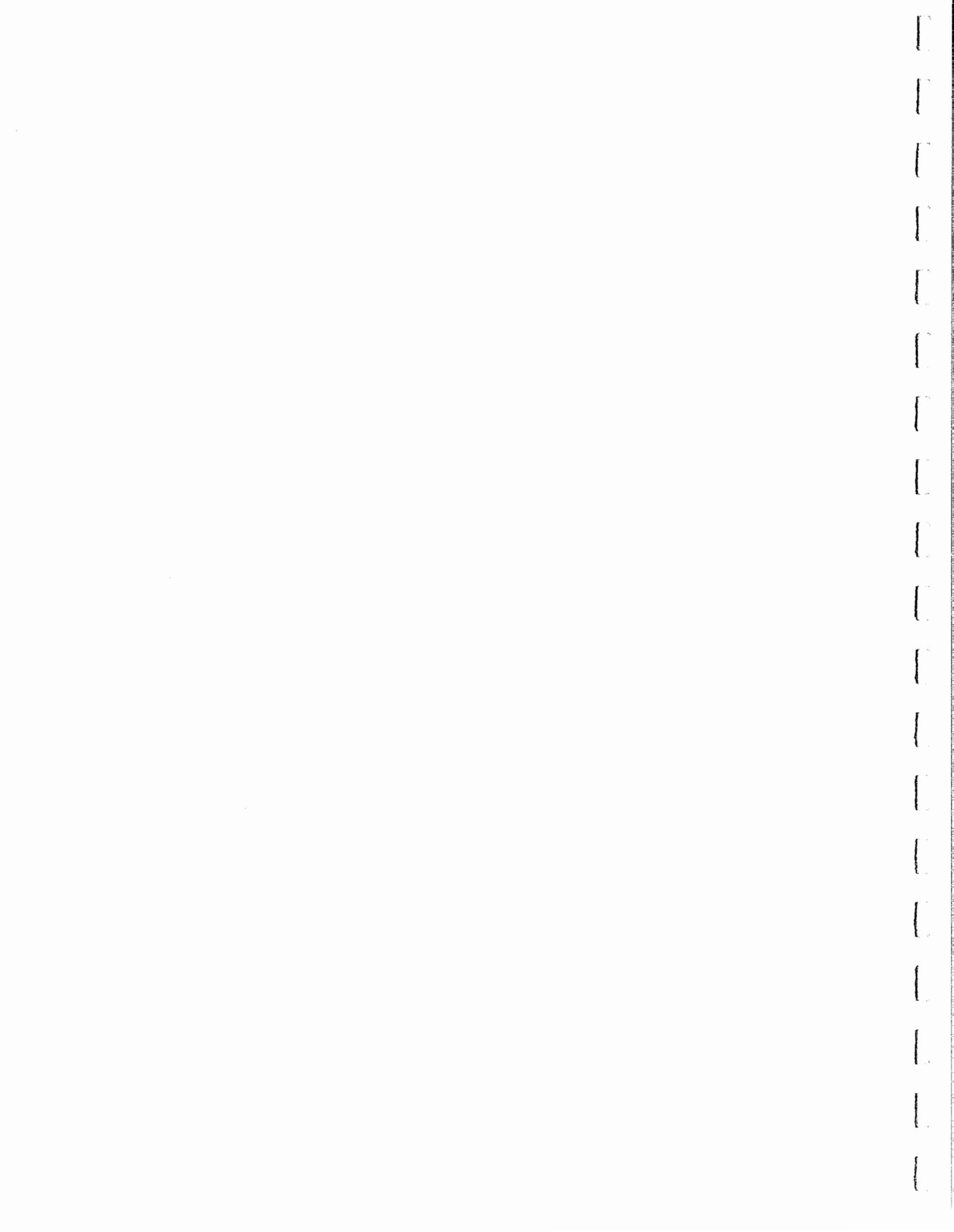


Table 2

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

SAMPLE ID	AL172	AL170	AL178	AL801	AL803
WELL ID	MW60	PT11	PT19	TB	TB
MATRIX	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE	6/17/98	6/16/98	6/16/98	6/18/98	6/19/98
SDG NO.	69582	69582	69582	69582	69582
1,1,2,2-Tetrachloroethane	ug/L	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
Bromobenzene	ug/L	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
2-Chlorotoluene	ug/L	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
4-Chlorotoluene	ug/L	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
1,2,4-Trimethylbenzene	ug/L	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
p-Isopropyltoluene	ug/L	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
1,4-Dichlorobenzene	ug/L	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
1,2-Dichlorobenzene	ug/L	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
1,2,4-Trichlorobenzene	ug/L	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
Naphthalene	ug/L	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
Acrylonitrile	ug/L	1 U	1 U	1 U	1 U
Allyl Chloride	ug/L	1 U	1 U	1 U	1 U
1-Chlorobutane	ug/L	1 U	1 U	1 U	1 U
trans-1,4-Dichloro-2-butene	ug/L	1 U	1 U	1 U	1 U
1,1-Dichloropropane	ug/L	1 U	1 U	1 U	1 U
Diethyl Ether	ug/L	1 U	1 U	1 U	1 U
Ethyl Methacrylate	ug/L	1 U	1 U	1 U	1 U
Hexachloroethane	ug/L	1 U	1 U	1 U	1 U
Methacrylonitrile	ug/L	1 U	1 U	1 U	1 U
Methyl Acrylate	ug/L	1 U	1 U	1 U	1 U
Methyl Iodide	ug/L	1 U	1 U	1 U	1 U
Methyl Methacrylate	ug/L	1 U	1 U	1 U	1 U
Pentachloroethane	ug/L	1 U	1 U	1 U	1 U
Propionitrile	ug/L	1 U	1 U	1 U	1 U

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

	WELL ID	PT-12A	MW-29	MW-29	MW-29 (R)	MW-44A	MW-46	PT-18	PT-21A	PT-24
	SAMPLE ID	AL189	AL190	AL807	AL805	AL 187	AL186	AL188	AL185	AL191
	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	SAMPLE DATE	6/20/98	6/20/98	6/20/98	6/20/98	6/19/98	6/19/98	6/20/98	6/19/98	6/20/98
	SDG NUMBER	69597	69597	69597	69597	69597	69597	69597	69597	69597
				Duplicate	Rinsate					
COMPOUND	UNITS									
Chloromethane	ug/L	73 UJ	1 UJ	1 UJ	0.43 J	47 UJ	1 UJ	29 UJ	1 UJ	1 UJ
Bromomethane	ug/L	73 UJ	1 UJ	1 UJ	1 U	47 UJ	1 UJ	29 UJ	1 UJ	1 UJ
Vinyl Chloride	ug/L	33 J	1 U	1 U	1 U	380	0.52 J	29 U	1 U	1 U
Chloroethane	ug/L	17 J	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
Methylene Chloride	ug/L	150 U	2 U	2 U	0.29 J	94 U	2 U	59 U	2 U	2 U
Acetone	ug/L	370 U	5 U	5 U	3.1 J	230 U	5 U	150 U	5 U	5 U
Carbon Disulfide	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
1,1-Dichloroethene	ug/L	73 U	1 U	1 U	1 U	47 U	0.21 J	29 U	1 U	1 U
1,1-Dichloroethane	ug/L	73 U	0.61 J	0.63 J	1 U	12 J	1 U	29 U	1 U	0.77 J
1,2-Dichloroethene (total)	ug/L	1300	101	101	1 U	1100	98.6	16 J	5.5	131
Chloroform	ug/L	73 U	1 U	1 U	0.36 J	47 U	1 U	29 U	1 U	1 U
1,2-Dichloroethane	ug/L	73 U	0.58 J	0.62 J	1 U	230 U	1 U	29 U	0.46 J	1 U
2-Butanone	ug/L	370 U	5 U	5 U	5 U	47 U	5 U	150 U	5 U	5 U
Bromochloromethane	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
1,1,1-Trichloroethane	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
Carbon Tetrachloride	ug/L	73 U	0.21 J	1 U	1 U	47 U	1 U	29 U	1 U	1 U
Bromodichloromethane	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
1,2-Dichloropropane	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
cis-1,3-Dichloropropene	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
Trichloroethene	ug/L	1200	3.6	3.7	1 U	22 J	35	520	1.1	8.3
Dibromochloromethane	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
1,1,2-Trichloroethane	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
Benzene	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	0.27 J	1 U
trans-1,3-Dichloropropene	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
Bromoform	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
4-Methyl-2-Pentanone	ug/L	370 U	5 U	5 U	5 U	230 U	5 U	150 U	5 U	5 U
2-Hexanone	ug/L	370 UJ	5 UJ	5 UJ	5 U	230 UJ	5 UJ	150 UJ	5 UJ	5 UJ
Tetrachloroethene	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
1,2-Dibromomethane	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
Toluene	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
Chlorobenzene	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
Ethylbenzene	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
Styrene	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
Xylene (total)	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
1,3-Dichlorobenzene	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U
1,2-Dibromo-3-chloropropane	ug/L	73 U	1 U	1 U	1 U	47 U	1 U	29 U	1 U	1 U

U - Compound not detected at instrument detection limit  
J - Concentration estimated due to QA/QC exceedences



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

WELL ID		PT-18	MW-29	MW-29	MW-29	MW-44A	MW-45
ES ID		AL188	AL190	AL807	AL 805	AL187	AL 184
MATRIX		WATER	WATER	WATER	WATER	WATER	WATER
SAMPLE DATE		6/20/98	6/20/98	6/20/98	6/20/98	6/19/98	6/19/98
SDG NO.		69597	69597	69597	69597	69597	69597
				Duplicate	Rinsate		
COMPOUND	UNITS						
Aluminium	ug/l	NA	NA	NA	NA	NA	NA
Antimony	ug/l	NA	NA	NA	NA	NA	NA
Arsenic	ug/l	NA	NA	NA	NA	NA	NA
Barium	ug/l	NA	NA	NA	NA	NA	NA
Beryllium	ug/l	NA	NA	NA	NA	NA	NA
Cadmium	ug/l	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.72 U
Calcium	ug/l	NA	NA	NA	NA	NA	NA
Chromium	ug/l	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
Cobalt	ug/l	NA	NA	NA	NA	NA	NA
Copper	ug/l	NA	NA	NA	NA	NA	NA
Iron	ug/l	NA	NA	NA	NA	NA	NA
Lead	ug/l	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Magnesium	ug/l	NA	NA	NA	NA	NA	NA
Manganese	ug/l	203	2.9	2.1	0.38	1380	11
Mercury	ug/l	NA	NA	NA	NA	NA	NA
Nickel	ug/l	4	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Potassium	ug/l	NA	NA	NA	NA	NA	NA
Selenium	ug/l	NA	NA	NA	NA	NA	NA
Silver	ug/l	NA	NA	NA	NA	NA	NA
Sodium	ug/l	NA	NA	NA	NA	NA	NA
Thallium	ug/l	NA	NA	NA	NA	NA	NA
Vanadium	ug/l	NA	NA	NA	NA	NA	NA
Zinc	ug/l	NA	NA	NA	NA	NA	NA
Cyanide	ug/l	NA	NA	NA	NA	NA	NA

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**Table 5**  
**Ash Landfill**  
**1998 Second 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	7.30	838	306	6.35	0.40	0.0019	<0.0021	<0.0025	2.8	0.16	330	117	22.7
PT-12A	6.78	1620	376	0.71	0.03	0.011	<0.0021	<0.0025	2.4	0.07	318	394	119
PT-18	6.64	1125	324	0.45	0.04	0.038	<0.0021	<0.0025	4.9	0.13	440	170	12.0
PT-19	6.72	661	95	0.32	0.57	0.085	<0.0021	<0.0025	2.9	0.16	295	34.9	20.2
PT-21A	6.96	1217	230	0.36	0.16	0.0064	<0.0021	<0.0025	1.8	0.35	260	202	125
PT-24	6.80	831	342	1.23	0.00	<0.0012	<0.0021	<0.0025	1.8	0.4	280	126	24.8
MW-27	7.25	619	275	6.98	0.17	0.0018	<0.0021	<0.0025	2.0	1.11	307	44.3	13.2
MW-29	6.82	848	363	3.54	0.05	<0.0012	<0.0021	<0.0025	2.0	0.67	318	122	17.9
MW-29DUP	na	na	na	na	0.08	<0.0012	<0.0021	<0.0025	1.9	0.62	318	123	17.8
MW-30	6.97	544	274	4.97	0.00	<0.0012	<0.0021	<0.0025	2.0	0.11	257	30.5	12.0
MW-36	6.99	669	301	0.79	0.03	<0.0012	<0.0021	<0.0025	1.2	1.8	300	52.6	19.8
MW-40	7.08	613	297	1.81	0.05	<0.0012	<0.0021	<0.0025	1.5	0.06	252	64.8	7.8
MW-44A	7.03	2690	262	1.10	0.28	0.046	<0.0021	0.013	7.6	0.03	220	749	422
MW-45	6.90	589	248	0.44	0.03	0.0018	<0.0021	<0.0025	2.1	0.01	280	28.4	10.1
MW-46	6.72	746	128	0.31	0.07	0.0045	<0.0021	<0.0025	3.0	0.01	300	72.7	16.2
MW-47	6.84	618	302	0.54	0.00	<0.0012	<0.0021	<0.0025	2.3	0.15	260	51.5	13.1
MW-48	6.86	566	280	0.30	0.04	<0.0012	<0.0021	<0.0025	3.5	0.01	280	28.4	5.7
MW-56	6.84	682	320	0.64	0.01	<0.0012	<0.0021	<0.0025	1.4	0.66	255	80.3	16.8
MW-59	6.68	1299	280	0.44	0.00	0.014	<0.0021	<0.0025	5.1	0.03	594	133	19.6
MW-60	6.84	647	216	0.33	0.08	<0.0012	<0.0021	<0.0025	2.7	0.01	297	28	13.4
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

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

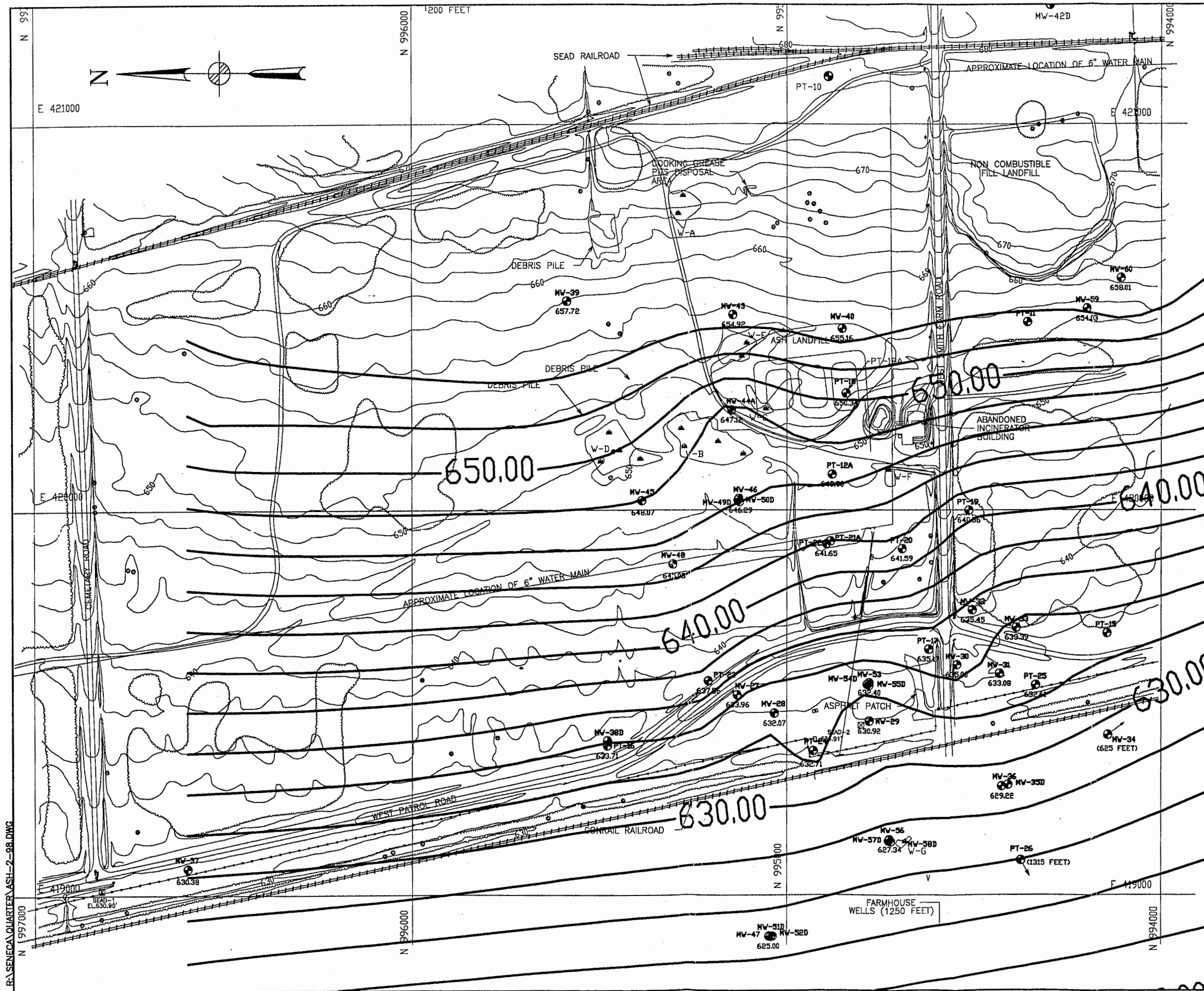


## FIGURES

Figure 1 Ash Landfill Groundwater Elevation Map



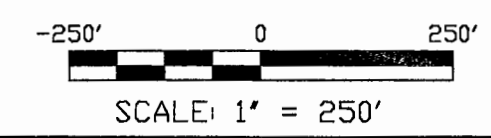




**LEGEND:**

- 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 MONITORING WELL, DESIGNATION AND WATER TABLE ELEVATION 657.72
- 650.00 — GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:  
GROUNDWATER ELEVATION DATA  
COLLECTED JUNE 16, 1998



**PARSONS**  
**PARSONS ENGINEERING SCIENCE, INC.**

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

DEPT. ENVIRONMENTAL ENGINEERING      Dep. No. 730769-01006

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

SCALE AS NOTED      DATE JULY 1998      REV 0

R:\SENECA QUARTER ASH-2-98.DWG



## **APPENDIX A**

### **FIELD DATA**

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

**1. Groundwater Sampling Field Notes**

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: PT-11
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/16/98	
SWMU # (AREA): Ash Landfill	INSPECTORS: KKS	
SOP NO.: 17	PUMP #: N/A	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT OVM-580	READING (UNITS) PPM (Isobut.)
6/16/98		80°F	sunny	moderate	2 mph			

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		
HISTORIC DATA	DEPTH POW (TOC)			DEPTH TOP OF SCREEN			WELL DEV. TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND		
	19.52ft.												
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)			STATIC WATER LEVEL			CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME		
6/16/98				4.44ft.			2.5		17.5ft.		1640		
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)						PUMP AFTER SAMPLING (cps)						

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
1L(9.7)	6/16/98	1657	0.1	1.5	14.46	744	7.24	291	8.15
2.37		1702	0.140	1.6	15.20	724	7.26	289	7.76
13.60		1705		1.75	14.30	709	7.29	292	7.87
2.75		1708			15.32	725	7.29	293	7.58
		1711		2	13.99	749	7.28	312	7.51
		1714	0.140		14.42	760	7.27	312	7.08
		1717			14.60	787	7.28	309	6.79
3.22		1720			14.48	804	7.28	307	6.63
		1723			14.15	822	7.29	306	6.52
3.42		1726			14.75	828	7.29	306	6.39
3.40		1729		2.5	14.75	838	7.30	306	6.35

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW PT-11

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL170	1800	
1A	- NYSCLP	HCL	3/ 40 ml	VOA	-	-	
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA	AL170	1800	
3	METALS	HNO3	1/ 1 L	HDPE	<del>AL170</del>	<del>1800</del>	gub
4	CN	NAOH	1/ 1 L	HDPE	<del>AL170</del>	<del>1800</del>	
5	DOC (filtered)	H2SO4	2/ 40ml	VOA	AL170	1800	
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE	AL170	1800	
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE	AL170	1800	
8	FE+2 (field tested)	0.40 mg/l					
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**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/16/88			
VOLUME:				
DRUM #, LOCATION:				

COMMENTS: Purged water dumped on ground near well.



## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT:

USACOE

WELL #:

MW PT-12A

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2		HCL	3/40 ml	VOA	—	—
1A	-NYSCLP		HCL	3/40 ml	VOA	AL189	1045
2	Methane/ Ethane/Ethene		HCL	3/40ml	VOA	↓	↓
3	METALS		HNO3	1/1 L	HDPE	—	—
4	CN		NAOH	1/1 L	HDPE	—	—
5	DOC (filtered)		H2SO4	2/40ml	VOA	AL189	1045
6	ALK./SULF./CHLOR.		NONE	1/1 L	HDPE	↓	↓
7	NITRATE/ NITRITE		H2SO4	1/1L	HDPE	↓	↓
8	FE+2 (field tested)	0.03 mg/L					
9							
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**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/20/98			
VOLUME:	0.6 gal			
DRUM #, LOCATION:	Ash-5W			

COMMENTS:





## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-PT-18

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE	
			COUNT/ VOLUME	TYPE				
1	VOA-524.2	HCL	3/40 ml	VOA	—			
1A	- NYSCLP	HCL	3/40 ml	VOA	AL188	0.945		
2	Methane/ Ethane/Ethene	HCL	3/40ml	VOA				
3	METALS	HNO3	1/1 L	HDPE				
4	CN	NAOH	1/1 L	HDPE				
5	DOC (filtered)	H2SO4	2/40ml	VOA				
6	ALK./SULF./CHLOR.	NONE	1/1 L	HDPE				
7	NITRATE/ NITRITE	H2SO4	1/1L	HDPE				
8	FE+2 (field tested)	D.04 mg/L						
9								
10								
11								
12								
13								
14								
15								

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/20/98			
VOLUME:	1.5 gals.			
DRUM #, LOCATION:	Ash SW			

COMMENTS:

**SAMPLING RECORD - GROUNDWATER**

PARSONS ENGINEERING - SCIENCE, INC.			CLIENT:	USACOE	WELL #: PT-19
PROJECT: 2nd Quarterly Monitoring - 1998					DATE:
SWMU # (AREA): Ash Landfill					INSPECTORS: KKS
SOP NO.: 17					PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6/19/98	0830	68°F	sunny	moderate	(none)		OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN		
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10	
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
	11.37 ft.				
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
		3.82 ft.	1.23 gal	9.0 ft.	0847
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)		

**MONITORING DATA COLLECTED DURING PURGING OPERATIONS**

1.L.

4.22

4.16

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/19/98	0850								
	0852	0.500	0.65	12.14	675	6.94	94	0.39	4.33
	0855	0.360	0.9	12.34	675	6.87	87	0.32	2.98
	0858	0.400	1.3	12.26	671	6.78	87	0.32	2.50
	0901	0.400	1.65	12.14	668	6.75	90	0.31	2.44
	0904	0.400	1.95	12.40	665	6.74	92	0.29	1.87
	0907	0.400	2.10	12.28	661	6.72	95	0.32	
Sampled @ 0910									

# SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW PT-19

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2		HCL	3/40 ml	VOA	AL-178	0910
1A	- NYSCLP		HCL	3/40 ml	VOA	—	↓
2	Methane/ Ethane/Ethene		HCL	3/40ml	VOA	AL178	
3	METALS		HNO3	1/1 L	HDPE	—	
4	CN		NAOH	1/1 L	HDPE	—	
5	DOC (filtered)		H2SO4	2/40ml	VOA	AL178	
6	ALK./SULF./CHLOR.		NONE	1/1 L	HDPE	↓	
7	NITRATE/NITRITE		H2SO4	1/1L	HDPE	↓	
8	FE+2 (field tested)	0.57 mg/L					
9							
10							
11							
12							
13							
14							
15							

**QA/QC** BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/19/98			
VOLUME:	2.10 gals			
DRUM #, LOCATION:				

COMMENTS: Purged water dumped on ground near well.

## SAMPLING RECORD - GROUNDWATER

F-21A

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: <i>KAW 20</i>
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/19/98	
SWMU # (AREA): Ash Landfill	INSPECTORS: KKS	
SOP NO.: 17	PUMP #: N/A	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6/19/98	1305	80°F	sunny	moderate	<del>light</del> (firm west)	5-10 mph	OVM-580	PPM (Isobut.)

DIAMETER (INCHES): GALLONS / FOOT:	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
	1	1.5	2	4	5	6	7	8	9	10		
	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	
HISTORIC DATA	DEPTH FOW (TOC)		DEPTH TOP OF SCREEN		WELL DEV. TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND			
	20.4 ft.											
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL		CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME			
6/19/98	0 ppm		5.02 ft.		2.5 gals.		18.0 ft.		1315			
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)				PUMP AFTER SAMPLING (cps)							

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

W.C.	DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
12.50	6/19/98	1323	X	1.75						
2.75		1332	0.200	2.1	14.33	1193	7.01	261	0.44	5.31
		1335			13.23	1218	6.98	242	0.37	5.77
3.08		1340	0.200	2.3	13.58	1215	6.98	238	0.36	3.66
		1343	0.200	2.45	13.26	1214	6.97	234	0.36	5.90
		1345	0.200	2.55	13.03	1219	6.99	231	0.35	4.06
		1348	0.200	2.7	13.12	1217	6.96	231	0.35	2.61
13.55		1351	0.200	3.0	13.58	1217	6.96	230	0.36	3.56
		1355	Sampled							

# SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT:

USACOE

WELL #:

~~W~~ PT-21A

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	<del>AL-185</del> <sup>none</sup>	1355	
1A	-NYSCLP	HCL	3/ 40 ml	VOA	AL-185	↓	
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA	AL-185		
3	METALS	HNO3	1/ 1 L	HDPE	—		
4	CN	NAOH	1/ 1 L	HDPE	—		
5	DOC (filtered)	H2SO4	2/ 40ml	VOA	AL-185		
6	ALK/SULF./CHLOR.	NONE	1/ 1 L	HDPE	↓		
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE	↓		
8	FE+2 (field tested)	0.16 mg/L					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/19/98			
VOLUME:	3 gals			
DRUM #, LOCATION:	Ash-SW			

**COMMENTS:**

*Purged water dumped on ground near well. JHP  
Drummed purged water in Drum #2: Ash-SW*

## SAMPLING RECORD - GROUNDWATER

DT

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: <del>AW-24</del>
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/20/98	
SWMU # (AREA): Ash Landfill	INSPECTORS: KKS	
SOP NO.: 17	PUMP #: N/A	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6/20/98	1232	85°F	sunny	mod. high	none		OVM-580	PPM (Isobut.)

DIAMETER (INCHES): GALLONS / FOOT:	WELL DIAMETER FACTORS										STANDING WATER VOLUME - WELL DIAMETER FACTOR * WATER COLUMN		
	1	1.5	2	3	4	5	6	7	8	9	10		
	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		
HISTORIC DATA	DEPTH TO PUMP (TOC)		DEPTH TOP OF SCREEN		WELL DEV. TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND				
	11.90 ft.												
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL		CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME				
	2.0 ppm		4.64 ft.		1.18 gal		10.0 ft.		1245				
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		<del>XXXX</del>		PUMP AFTER SAMPLING (cps)								

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
VL 4.79 4.79	6/20/98	1248	0.500	0.5	13.78	823	6.87	339	1.41
		1251	0.500	0.75	13.62	829	6.86	341	1.28
		1254	0.500	1.25	13.37	831	6.82	342	1.24
		1257	0.500	1.5	13.31	831	6.80	342	1.23
		1300	Sampled						

# SAMPLING RECORD - GROUNDWATER

PT

PARSONS ENGINEERING - SCIENCE, INC.      CLIENT: USACOE      WELL #: ~~MW-24~~

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	—	—	
1A	- NYSCLP	HCL	3/ 40 ml	VOA	AL18891	1300	
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA	↓	gnd ↓	
3	METALS	HNO3	1/ 1 L	HDPE	—	—	
4	CN	NAOH	1/ 1 L	HDPE	—	—	
5	DOC (filtered)	H2SO4	2/ 40ml	VOA	AL18891	1300	
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE	↓	↓	
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE	↓	↓	
8	FE+2 (field tested)	0.00 mg/L					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?      YES       NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?      YES       NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/20/98			
VOLUME:	1.5 gal			
DRUM #, LOCATION:	Ash-SW			

**COMMENTS:**





## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-27
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/17/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6/17/98	1430	75°F	partly cloudy	moderate	from SE/south 10-20 mph		OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS DIAMETER (INCHES): 1 1.5 2 3 4 5 6 7 8 9 10 GALLONS / FOOT: 0.041 0.092 0.163 0.367 0.654 1.02 1.47 2.00 2.61 3.30 5.87	STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN
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HISTORIC DATA  DATA COLLECTED AT WELL SITE: 6/17/98	DEPTH POW (TOC): 10.34 ft.  PID READING (OPENING WELL): 0	DEPTH TOP OF SCREEN: 3.69 ft.  STATIC WATER LEVEL: 3.69 ft.	WELL DEV. TURBIDITY: 1.08  CALCULATED STANDING WATER VOL. (GAL): 1.08	WELL DEV. pH: 9.0 ft.  DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft): 1437
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### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/17/98	1640	0.140	0.13	15.20	656	7.13	253	5.87	85.7
	1643	0.140	0.20	15.77	640	7.19	264	6.24	64.3
	1646	0.100	0.30	15.98	635	7.20	268	6.42	49.2
	1650	0.110	0.40	15.99	629	7.22	271	6.43	34.0
	1655	0.120	0.50	15.75	621	7.24	274	6.78	26.0
	1700	0.100	0.55	15.98	619	7.25	275	6.98	20.7

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.      CLIENT: USACOE      WELL #: MW-27

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL-173	1505	
1A	- NYSCLP	HCL	3/ 40 ml	VOA	-	-	
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA	AL-173	1505	
3	METALS	HNO3	1/ 1 L	HDPE	-	-	
4	CN	NAOH	1/ 1 L	HDPE	-	-	
5	DOC (filtered)	H2SO4	2/ 40ml	VOA	AL-173	1505	
6	ALK/SULF./CHLOR.	NONE	1/ 1 L	HDPE	↓	↓	
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE	↓	↓	
8	FE+2 (field tested)	0.17 mg/L					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**      BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?      YES       NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?      YES       NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/17/98			
VOLUME:	0.66 gals			
DRUM #, LOCATION:				

COMMENTS: Purged water dumped on ground near well.

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-29
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/20/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL.	WIND	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT OVM-580	READING (UNITS) PPM (Isobut.)
				HUMIDITY (GEN)	DIRECTION (0 - 360)			
6/20/98	1110	85°F	sunny	mod. high	none			

DIAMETER (INCHES): GALLONS / FOOT:	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR • WATER COLUMN	
	1	1.5	2	3	4	5	6	7	8	9		10
	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
		10.54 ft.			

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
		6.15 ft.	0.72 gal	7.8 ft.	1115

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cpm)	PUMP AFTER SAMPLING (cpm)

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

NL  
7.45  
7.40  
5.42

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/20/98	1118	0.500	0.10	15.33	763	6.97	347	4.85	37.6
	1121	0.400	0.60	14.21	805	6.87	356	3.89	26.9
	1124	0.320	0.95	13.74	820	6.84	359	3.70	
	1140	0.300	1.6	13.64	845	6.83	363	3.46	7.58
	1143	0.300	2.0	13.33	848	6.82	363	3.54	6.73
	1145	Sampled							

# SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC. CLIENT: USACOE WELL #: MW - 29

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	-	-	
1A	- NYSCLP	HCL	3/ 40 ml	VOA	AL1890	1145	
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA	↓ gws	↓	
3	METALS	HNO3	1/ 1 L	HDPE			
4	CN	NAOH	1/ 1 L	HDPE	↓	↓	
5	DOC (filtered)	H2SO4	2/ 40ml	VOA			AL1890
6	ALK/SULF./CHLOR.	NONE	1/ 1 L	HDPE	↓	↓	
7	NITRATE/NITRITE	H2SO4	1/ 1L	HDPE			
8	FE+2 (field tested)	0.05					
9	(mg/L)	0.08 (dup)					
10							
11							
12							
13							
14							
15							

**QA/QC** BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?  YES  NO

Duplicate Sample Name: ALB07

MRD Sample Name: AL1890 gws

QA/QC rinsate sample name: ALB05

MATRIX SPIKE sample collected?  YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/20/98			
VOLUME:	2.0 gal			
DRUM #, LOCATION:	Ash - 5W			

**COMMENTS:** *Purged water drummed.*

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-30
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/17/98	
SWMU # (AREA): Ash Landfill	INSPECTORS: KKS	
SOP NO.: 17	PUMP #: N/A	

WEATHER / FIELD CONDITIONS CHECKLIST						(RECORD MAJOR CHANGES)		MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)	
6/17/98	1550	70°F	partly sunny	moderate	from west 10-20 mph		OVM-580	PPM (Isobut.)	

DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10	STANDING WATER VOLUME =
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	WELL DIAMETER FACTOR * WATER COLUMN

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
	10.52 ft.				

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
6/17/98		4.05 ft.	1.05	7.0 ft.	

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)	7.05 ft. GHP	7.5 ft.
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### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/17/98	1557	0.440							
	1600	0.390	0.5	14.81	547	7.09	271	5.60	7.23
	1605	0.380	0.75	14.76	546	7.08	275	5.31	9.28
	1610	0.400	1.25	14.82	545	6.99	273	5.11	3.52
	1615	0.400	1.75	14.38	545	7.03	275	5.04	3.44
	1619	0.320	2.0	14.50	544	6.97	274	4.97	2.21
	Sampled @ 1620 hrs.								

L.  
.16  
1.15  
1.20  
1.31  
1.38

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW - 30

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL-174	1620	
1A	- NYSCLP	HCL	3/ 40 ml	VOA	-	-	
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA	AL-174	1620	
3	METALS	HNO3	1/ 1 L	HDPE	-	-	
4	CN	NAOH	1/ 1 L	HDPE	-	-	
5	DOC (filtered)	H2SO4	2/ 40ml	VOA	AL-174	1620	
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE	↓	↓	
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE	↓	↓	
8	FE+2 (field tested)	0.00 mg/L					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/17/98			
VOLUME:	2.0 gals.			
DRUM #, LOCATION:				

**COMMENTS:**

Purged water dumped on ground near well.

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-36
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/18/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST							(RECORD MAJOR CHANGES)		MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)		
6/18/98	1140	75°F	sunny	mod			OVM-580	PPM (Isobut.)		

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		
HISTORIC DATA	DEPTH POW (TOC)			DEPTH TOP OF SCREEN			WELL DEV. TURBIDITY		WELL DEV. pH	WELL DEV. SPEC. COND			
	16.58 ft.												
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)			STATIC WATER LEVEL			CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME			
				2.49 ft.			2.3 gal		11.0 ft.	1204			
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)						PUMP AFTER SAMPLING (cps)						

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

V.L.	DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	EH	DISSOLVED OXYGEN	TURBIDITY (NTU)
	.92	6/18/98	1207	0.720	0.30	13.80	678	7.03	292	0.74
.88		1210	0.760	1	12.91	671	6.96	298	0.73	4.05
.89		1214	0.720	1.75	12.84	671	6.96	298	0.75	4.46
.95		1217	0.800	2.0	12.81	668	6.96	299	0.77	4.20
2.94		1220	0.800	2.85	12.79	669	6.99	301	0.79	5.74



## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW - 36

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2		HCL	3/40 ml	VOA	AL-176	12/30
1A	- NYSCLP		HCL	3/40 ml	VOA	-	
2	Methane/ Ethane/Ethene		HCL	3/40ml	VOA	AL-176	
3	METALS		HNO3	1/1 L	HDPE	<del>AL-176</del> -	
4	CN		NAOH	1/1 L	HDPE	-	
5	DOC (filtered)		H2SO4	2/40ml	VOA	AL-176	
6	ALK./SULF./CHLOR.		NONE	1/1 L	HDPE	AL-176	
7	NITRATE/NITRITE		H2SO4	1/1L	HDPE	AL-176	
8	FE+2 (field tested)	0.03mg/L					✓
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?  YES  NO

Duplicate Sample Name: AL-804 VOC 524.2 Only

MRD Sample Name: none

QA/QC rinsate sample name: AL-802 VOC 524.2 Only

MATRIX SPIKE sample collected?  YES  NO VOC 524.2 Only

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/18/98			
VOLUME:	2.5 gals			
DRUM #, LOCATION:				

**COMMENTS:**

*Pumped water dumped on ground near well.*



## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-40

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2		HCL	3/ 40 ml	VOA	AL-182	1005
1A	- NYSCLP		HCL	3/ 40 ml	VOA	-	↓
2	Methane/ Ethane/Ethene		HCL	3/ 40ml	VOA	AL182	
3	METALS		HNO3	1/ 1 L	HDPE	-	
4	CN		NAOH	1/ 1 L	HDPE	-	
5	DOC (filtered)		H2SO4	2/ 40ml	VOA	AL182	
6	ALK./SULF./CHLOR.		NONE	1/ 1 L	HDPE	↓	
7	NITRATE/ NITRITE		H2SO4	1/ 1L	HDPE		
8	FE+2 (field tested)	0.57 mg/L					
9		0.05 g/L					
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/19/98		
VOLUME:			
DRUM #, LOCATION:			

COMMENTS: Purged water dumped on ground near well.

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-44A
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/19/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6/19/98	1515	80° F	Sunny	moderate	none		OVM-580	PPM (Isobut)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		
HISTORIC DATA	DEPTH POW (TOC)		DEPTH TOP OF SCREEN		WELL DEV. TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND				
	12.48 ft.												
DATA COLLECTED AT WELL SITE	FID READING (OPENING WELL)		STATIC WATER LEVEL		CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME				
6/19/98	2 ppm		4.30 ft		1.33 gal		10.0 ft		1520				
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)				PUMP AFTER SAMPLING (cps)								

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)	
W.L. 6/19/98	1525		0.5							
7.42	1528	0.160	0.8	17.41	2660	6.93	259	0.87	4.08	
7.69	1531	0.180	1.0	16.40	2690	7.00	261	0.98	4.71	
8.15	1535	0.200 0.180	1.2	15.76	2690	7.03	262	1.10	3.54	
	1545	Sampled								

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-44A

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	—	—	
1A	- NYSCLP	HCL	3/ 40 ml	VOA	AL187	1545	
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA	↓	↓	
3	METALS	HNO3	1/ 1 L	HDPE	—	—	
4	CN	NAOH	1/ 1 L	HDPE	—	—	
5	DOC (filtered)	H2SO4	2/ 40ml	VOA	AL187	1545	
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE	↓	↓	
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE	↓	↓	
8	FE+2 (field tested)	0.20 mg/L				↓	
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/19/98			
VOLUME:	1.2 gals			
DRUM #, LOCATION:	Ash- <del>W</del> W			

COMMENTS:

5

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-45
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/19/98	
SWMU # (AREA): Ash Landfill	INSPECTORS: KKS	
SOP NO.: 17	PUMP #: N/A	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6/19/98	1127	80°F	sunny	moderate	5-10 mph (from west)		OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME - WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		
HISTORIC DATA	DEPTH POW (TOC)			DEPTH TOP OF SCREEN			WELL DEV. TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND		
	0.34 ft.												
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)			STATIC WATER LEVEL			CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME		
6/19/98				2.90 ft.			0.88 gal		6.5 ft.		1135		
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)						PUMP AFTER SAMPLING (cps)						

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)	
6/19/98	1139	0.400	0.50	16.32	586	6.96	233	0.55	6.51	
	1142	0.340	0.75	15.92	585	6.93	230	0.45	4.13	
	1145	0.400	1.05	15.57	586	6.91	239	0.40	3.19	
	1148	0.400	1.20	15.43	584	6.91	245	0.47	3.41	
	1151	0.400	1.45	15.30	585	6.90	248	0.44	3.07	
	1155	Sampled								

1.1.  
1.20  
old not  
pressure  
: cause  
pump)

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT:

USACOE

WELL #:

MW - 45

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2		HCL	3/ 40 ml	VOA	AL184	1155
1A	-NYSCLP		HCL	3/ 40 ml	VOA	-	
2	Methane/ Ethane/Ethene		HCL	3/ 40ml	VOA	AL184	
3	METALS		HNO3	1/ 1 L	HDPE	-	
4	CN		NAOH	1/ 1 L	HDPE	-	
5	DOC (filtered)		H2SO4	2/ 40ml	VOA	AL184	
6	ALK./SULF./CHLOR.		NONE	1/ 1 L	HDPE	↓	
7	NITRATE/ NITRITE		H2SO4	1/ 1L	HDPE	↓	
8	FE+2 (field tested)	0.03 mg/L					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?      YES       NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?      YES       NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/19/98			
VOLUME:	1.45 gals.			
DRUM #, LOCATION:				

**COMMENTS:**

*Purged water dumped on ground near well.*

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-46
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/19/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL.	WIND	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT OVM-580	READING (UNITS) PPM (Isobut.)
				HUMIDITY (GEN)	DIRECTION (0 - 360)			
6/19/98	1437	83°F	sunny	moderate	none			

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		
HISTORIC DATA	DEPTH POV (TOC)		DEPTH TOP OF SCREEN		WELL DEV. TURBIDITY		WELL DEV. pH		WELL DEV. SPEC. COND				
	11.45ft.												
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)		STATIC WATER LEVEL		CALCULATED STANDING WATER VOL. (GAL)		DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)		PUMPING START TIME				
6/19/98	135ppm		6.22ft.		0.85 gal		10.0ft.		1440				
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)				PUMP AFTER SAMPLING (cps)								

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Et	DISSOLVED OXYGEN	TURBIDITY (NTU)	
6/19/98	1441	0.320	0.2	16.07	751	6.79	260	1.30	2.99	
	1445	0.360	0.75	14.65	745	6.74	156	0.33	13.8	
	1448	0.360	1.0	14.73	746	6.72	139	0.31	12.8	
	1451	0.360	1.25	14.59	745	6.72	132	0.31	8.56	
	1453	0.360	1.5	14.59	746	6.72	128	0.31	5.35	
	1500	Sampled								

NC  
1.16  
1.20  
1.20  
1.25



# SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT:

USACOE

WELL #:

MW - 46

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	—	1500	
1A	- NYSCLP	HCL	3/ 40 ml	VOA	AL186	↓	
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA	↓		
3	METALS	HNO3	1/ 1 L	HDPE	—		
4	CN	NAOH	1/ 1 L	HDPE	—		
5	DOC (filtered)	H2SO4	2/ 40ml	VOA	AL186		
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE	↓		
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE	↓		
8	FE+2 (field tested)	0.07 mg/L					
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/ MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/19/98		
VOLUME:	<del>1.5</del> gals	1.5 gals	JHP
DRUM #, LOCATION:	Ash - 5W		

**COMMENTS:**

Purged water drummed.

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-47
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/18/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6/18/98	1025	68°F	P <sup>+</sup> ly sunny	moderate	West	10-20 mph	OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS DIAMETER (INCHES): 1 1.5 2 3 4 5 6 7 8 9 10 GALLONS / FOOT: 0.041 0.092 0.163 0.367 0.654 1.02 1.47 2.00 2.61 3.30 5.87	STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN
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HISTORIC DATA  DEPTH POW (TOC): 8.56 ft.	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
DATA COLLECTED AT WELL SITE: 6/18/98	PID READING (OPENING WELL)	STATIC WATER LEVEL: 3.05 ft.	CALCULATED STANDING WATER VOL. (GAL): 0.9 gal	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft): 7.0 ft.
RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)	6.0 ft. - 1047	

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/18/98	1050	0.440	0.45	16.62	593	6.97	312	1.29	76.1
	1053	0.360	0.85	15.58	611	6.88	313	0.59	17.8
	1056	0.400	1.0	15.41	610	6.87	310	0.63	11.2
	1059	0.480	1.35	15.24	613	6.86	305	0.61	6.55
	1102	0.480	1.95	15.31	618	6.85	304	0.44	5.53
	1106	0.400	2.15	15.24	618	6.84	302	0.54	6.07
Sampled @ 1110.									

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT:

USACOE

WELL #:

MW -47

SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2	HCL	3/ 40 ml	VOA	AL-175	1110	
1A	- NYSCLP	HCL	3/ 40 ml	VOA	-	↓	
2	Methane/ Ethane/Ethene	HCL	3/ 40ml	VOA	AL-175		
3	METALS	HNO3	1/ 1 L	HDPE	-		
4	CN	NAOH	1/ 1 L	HDPE	-		
5	DOC (filtered)	H2SO4	2/ 40ml	VOA	AL-175		
6	ALK./SULF./CHLOR.	NONE	1/ 1 L	HDPE	AL-175		
7	NITRATE/ NITRITE	H2SO4	1/ 1L	HDPE	AL-175		✓
8	FE+2 (field tested)	0.00mg/L					↓
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?      YES       NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?      YES       NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/18/98			
VOLUME:	2.15 gals.			
DRUM #, LOCATION:				

**COMMENTS:**

Purged water dumped on ground near well.

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-48
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/19/98	INSPECTORS: KKS
SWMU # (AREA): Ash Landfill	SOP NO.: 17	PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6/19/98	1037	75°F	sunny	matr	slight (from east)		OVM-580	PPM (Isobut.)

DIAMETER (INCHES): GALLONS / FOOT:	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
	1	1.5	2	3	4	5	6	7	8	9		10
	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (FOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
	11.50 ft.				

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
6/19/98		3.29 ft.	1.34 gal	8.0 ft.	1040

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (°C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/19/98	1045	0.5000	0.35	15.55	570	6.94	293	0.46	4.83
	1048	0.500	1.25	14.89	568	6.88	286	0.35	3.07
	1051	0.500	1.30	14.70	567	6.87	283	0.32	2.92
	1054	0.500	1.70	14.60	566	6.86	281	0.32	3.23
	1057	0.500	2.0	14.70	564	6.86	280	0.30	3.65
	Sampled @ 1100.								

# SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.			CLIENT:	USACOE	WELL #:	MW - 48	
SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2		HCL	3/ 40 ml	VOA	AL183	1100
1A	- NYSCLP		HCL	3/ 40 ml	VOA	-	↓
2	Methane/ Ethane/Ethene		HCL	3/ 40ml	VOA	AL183	
3	METALS		HNO3	1/ 1 L	HDPE	-	
4	CN		NAOH	1/ 1 L	HDPE	-	
5	DOC (filtered)		H2SO4	2/ 40ml	VOA	AL183	
6	ALK./SULF./CHLOR.		NONE	1/ 1 L	HDPE	↓	
7	NITRATE/ NITRITE		H2SO4	1/ 1L	HDPE	↓	
8	FE+2 (field tested)	0.04 mg/L					
9							
10							
11							
12							
13							
14							
15							

**QA/QC** BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?    YES     NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?    YES     NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/19/98			
VOLUME:	2 + gals			
DRUM #, LOCATION:				

**COMMENTS:** Purged water dumped on ground near well.

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC. CLIENT: USACOE WELL #: MW-56

PROJECT: 2nd Quarterly Monitoring - 1998 DATE: \_\_\_\_\_  
 SWMU # (AREA): Ash Landfill INSPECTORS: KKS  
 SOP NO.: 17 PUMP #: N/A

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	RBL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6/18/98	1415	77F	P+V slmy	mod. high	5-10 mph		OVM-580	PPM (Isobut.)

DIAMETER (INCHES): GALLONS / FOOT:	WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN	
	1	1.5	2	3	4	5	6	7	8	9		10
	0.041	0.092	0.163	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87	

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
	6.98 ft				

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
6/18/98		3.17 ft.	0.6	5.0 ft.	1425

RADIATION SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)
		fill = 9 sec pump = 6 sec.

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/18/98	1430	0.240	0.10	20.73	640	7.08	284	3.97	26.3
	1433	0.240	0.34	18.77	664	6.93	294	1.14	34.3
	1436	0.300	0.5	16.38	677	6.85	304	0.62	26.4
	1439	0.200	0.65	16.28	679	6.85	300	0.65	17.6
	1442	0.200	0.75	16.62	680	6.85	307	0.62	10.4
	1445	0.200	0.85	16.63	683	6.86	307	0.60	13.5
	1448	0.200	0.95	16.16	685	6.86	307	0.62	9.29
	1451	0.200	1.15	15.49	682	6.84	318	0.62	7.62
	1455			15.89	682	6.82	320	0.64	7.85
Sampled at 1500									
$Fe^{+2} = 0.01 \text{ mg/l}$									

W.L.  
 innot  
 rasure  
 cause  
 pump  
 depth  
 intake

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.

CLIENT: USACOE

WELL #: MW-56

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2		HCL	3/40 ml	VOA	AL-177	1500
1A	- NYSCLP		HCL	3/40 ml	VOA	-	
2	Methane/ Ethane/Ethene		HCL	3/40ml	VOA	AL-177	
3	METALS		HNO3	1/1 L	HDPE	-	
4	CN		NAOH	1/1 L	HDPE	-	
5	DOC (filtered)		H2SO4	2/40ml	VOA	AL-177	
6	ALK./SULF./CHLOR.		NONE	1/1 L	HDPE	AL-177	
7	NITRATE/ NITRITE		H2SO4	1/1L	HDPE	AL177	
8	FE+2 (field tested)		0.01 mg/l				↓
9							
10							
11							
12							
13							
14							
15							

**QA/QC**

BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED? YES  NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected? YES  NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/18/98			
VOLUME:	1.25 gals.			
DRUM #, LOCATION:				

**COMMENTS:**

Purged water dumped on ground near well.





## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.			CLIENT: USACOE		WELL #: MW - 59		
SAMPLING ORDER	TAL/ TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2		HCL	3/ 40 ml	VOA	AL-171	0930
1A	-NYSCLP		HCL	3/ 40 ml	VOA	- none	- none
2	Methane/ Ethane/Ethene		HCL	3/ 40ml	VOA	AL-171	0930
3	METALS		HNO3	1/ 1 L	HDPE	+ none	+ none
4	CN		NAOH	1/ 1 L	HDPE	+ none	+ none
5	DOC (filtered)		H2SO4	2/ 40ml	VOA	↓	↓
6	ALK./SULF./CHLOR.		NONE	1/ 1 L	HDPE		
7	NITRATE/ NITRITE		H2SO4	1/ 1L	HDPE		
8	FE+2 (field tested)	0.00 mg/L					
9							
10							
11							
12							
13							
14							
15							

**QA/QC** BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?    YES    NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?    YES    NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/17/98		
VOLUME:	1.8 gals		
DRUM #, LOCATION:			

COMMENTS: Purged water dumped on ground near well.

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.	CLIENT: USACOE	WELL #: MW-60
PROJECT: 2nd Quarterly Monitoring - 1998	DATE: 6/17/98	
SWMU # (AREA): Ash Landfill	INSPECTORS: KKS	
SOP NO.: 17	PUMP #: N/A	

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
DATE	TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	READING (UNITS)
6/17/98	0950	70°F	cloudy	mod high	from South 5-10 mph	wet	OVM-580	PPM (Isobut.)

WELL DIAMETER FACTORS										STANDING WATER VOLUME = WELL DIAMETER FACTOR * WATER COLUMN			
DIAMETER (INCHES):	1	1.5	2	3	4	5	6	7	8	9	10		
GALLONS / FOOT:	0.041	0.092	0.167	0.367	0.654	1.02	1.47	2.00	2.61	3.30	5.87		

HISTORIC DATA	DEPTH POW (TOC)	DEPTH TOP OF SCREEN	WELL DEV. TURBIDITY	WELL DEV. pH	WELL DEV. SPEC. COND
		10.29 ft			
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	STATIC WATER LEVEL	CALCULATED STANDING WATER VOL. (GAL)	DEPTH TO PUMP INTAKE (DEPTH TOS + 2 ft)	PUMPING START TIME
	0	1.92 ft.	1.36	8.0 ft.	0957
RADIATION-SCREENING DATA	PUMP PRIOR TO SAMPLING (cps)		PUMP AFTER SAMPLING (cps)		

### MONITORING DATA COLLECTED DURING PURGING OPERATIONS

DATE	TIME (min)	PUMPING RATE (L/min)	CUMULATIVE VOL (GALLONS)	TEMPERATURE (C)	SPEC. COND (umhos)	pH	Eh	DISSOLVED OXYGEN	TURBIDITY (NTU)
6/17/98	1000	0.375	0.20	15.40	660	6.95	266	0.62	2.83
	1003	0.600	0.57	14.75	653	6.85	239	0.41	4.37
	1004	0.600	0.7	14.38	649	6.86	216	0.35	4.78
	1009	0.660	1	14.40	647	6.84	216	0.33	4.42
		Sample	1020 hrs						
			$F_{c^{+2}} =$	0.08	mg/l				

## SAMPLING RECORD - GROUNDWATER

PARSONS ENGINEERING - SCIENCE, INC.      CLIENT: USACOE      WELL #: MW-60

SAMPLING ORDER	TAL/TCL	PRESERV.	BOTTLES		SAMPLE NO.	TIME	CHECKED BY/ DATE
			COUNT/ VOLUME	TYPE			
1	VOA-524.2		HCL	3/40 ml	VOA	AL-172	10 20
1A	-NYSCLP		HCL	3/40 ml	VOA	-	↓
2	Methane/ Ethane/Ethene		HCL	3/40ml	VOA	AL-172	
3	METALS		HNO3	1/1 L	HDPE	-	
4	CN		NAOH	1/1 L	HDPE	-	
5	DOC (filtered)		H2SO4	2/40ml	VOA	AL-172	
6	ALK./SULF./CHLOR.		NONE	1/1 L	HDPE	↓	
7	NITRATE/NITRITE		H2SO4	1/1L	HDPE	↓	
8	FE+2 (field tested)			0.08 ug/l			
9							
10							
11							
12							
13							
14							
15							

**QA/QC**      BOTTLE COUNTS ARE TRIPLED IF MS/MSD SAMPLES ARE COLLECTED

QA/QC DUPLICATE SAMPLE COLLECTED?      YES       NO

Duplicate Sample Name: \_\_\_\_\_

MRD Sample Name: \_\_\_\_\_

QA/QC rinsate sample name: \_\_\_\_\_

MATRIX SPIKE sample collected?      YES       NO

**INVESTIGATION DERIVED WASTE (IDW):**

DATE:	6/17/08			
VOLUME:	1 gal			
DRUM #, LOCATION:				

COMMENTS: Purged water dumped on ground near well.

## 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. 730769-01006  
PROJECT Sunoco Ind. Site 1998  
CONTACT Mike Dubesreau

LABORATORY ITS  
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 524.2	SWOC	METALS	CN	DOC	Nitrate Nitrite	Al <sup>3+</sup> /Silica			Chloride	
AL801		6/16/98	1100	—	water	X				X	X	X			2	Trip Blank
AL170		6/16/98	1800		↓	X				X	X	X			7	
AL171		6/17/98	0930		↓	X				X	X	X			7	
AL172		6/17/98	1020		↓	X				X	X	X			7	
AL173		6/17/98	1505		↓	X				X	X	X			7	
AL174		6/17/98	1620		↓	X				X	X	X			7	
<del>KKS</del>																

~~delete~~  
6/20/98  
KKS

Sampled and Relinquished by  
Sign *[Signature]*  
Print Kerry Smith  
Firm Parsons ES  
Date 6/18/98 Time 0845

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								

REMARKS: (Sample storage, nonstandard sample bottles)  
DOC Field Filtered  
0.45 μm

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 HNO<sub>3</sub> G - Other  
B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

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

Cooler #: 46



PARSONS ENGINEERING SCIENCE, INC.

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

# CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 1

JOB NO. 730769-01006  
PROJECT Seneca 2nd Quarter 1998  
CONTACT Mike Duchesneau

LABORATORY Evergreen Analytical  
ADDRESS Wheat Ridge CO  
CONTACT Shes Greiner

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	H/E/P								
✓ AL170		6/16/98	1800		water							X					3	
✓ AL171		6/17/98	0930		↓							X					3	
✓ AL172		6/17/98	1020									X					3	
✓ AL173		6/17/98	1505									X					3	
✓ AL174		6/17/98	1620									X					3	
<del>_____</del>																		

Sampled and Relinquished by  
 Sign *[Signature]*  
 Print Keray Smith  
 Firm Parsons ES  
 Date 6/18/98 Time 0930

Received by  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

VOA Vial   
 Glass Bottle \_\_\_\_\_  
 Plastic Bottle \_\_\_\_\_  
 Preservative A  
C

Relinquished by  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

Received by  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

Container Volume 40 ml  
 PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic  
 A - Ice D - Acidified with HNO<sub>3</sub> G - Other  
 B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

REMARKS: (Sample storage, nonstandard sample bottles)  
Quote # 1785

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

Cooler #: 18





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

# CHAIN-OF-CUSTODY RECORD

PAGE 1 OF 3

JOB NO. 730769-01006  
PROJECT Seneca 2nd Qtr. 1998  
CONTACT Mike Duchesneau

LABORATORY ITS  
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	CN	DOC	N-nite	N-nite	Aix/Sulf	Chlor			
AL175		6/19/98	1110		Water	X				X	X	X				7	
AL176		6/18/98	1230		water	X				X	X	X				13	Matrix Spike - VOC's Only
AL801		6/18/98	1230 1915(KKS)		Water	X										3	
AL177		6/18/98	1500		water	X				X	X	X				7	
AL803		6/18/98	0740		water	X										2	Trip Blank
AL802		6/18/98	0750		water	X										3	Rise Blank - VOC's Only
AL179		6/18/98	1220		water	X										3	
AL180		6/18/98	1230		water	X										3	
AL181		6/18/98	1245		water	X										3	
		KKS															

Sampled and Relinquished by  
Sign [Signature]  
Print Kerry Smith  
Firm Parsons ES  
Date 6/18/98 Time

Received by  
Sign  
Print  
Firm  
Date Time

Relinquished by  
Sign  
Print  
Firm  
Date Time

Received by  
Sign  
Print  
Firm  
Date Time

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

VOA Vial

Glass Bottle

Plastic Bottle

Preservative A C

Container Volume 40 51

PRESERVATION KEY:  
C - Acidified with HCl  
A - Ice  
B - Filtered  
F - NaOH + Ascorbic  
D - Acidified with HNO<sub>3</sub>  
E - Acidified with H<sub>2</sub>SO<sub>4</sub>  
G - Other

REMARKS: (Sample storage, nonstandard sample bottles)  
Don't Return Cooler

Cooler #: 007







# CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01006  
PROJECT Screen #2-2d Qtr 1998  
CONTACT Mike Duchesneau

LABORATORY ITS  
ADDRESS Colchester VT  
CONTACT Chris Oullette

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	VOA	SVOC	METALS (5)	ANALYSES					NO. OF CONTAINERS	COMMENTS (Special instructions, cautions, etc.)
		DATE	TIME						CN	Alk sulf Chlor	Mercury	Ammonia	DOC		
AL185		6/19/98	1355		water				X	X	X			Metals (5) =	
AL186		↓	1500		water				X	X	X			Lead	
AL187		↓	1545		water			X	X	X	X			Manganese Chromium Cadmium Nickel	
<i>Handwritten: KKS 6/20/98</i>															

Sampled and Relinquished by  
Sign *[Signature]*  
Print Kerry Smith  
Firm Parsons ES  
Date 6/15/98 Time 1800

Received by  
Sign  
Print  
Firm  
Date Time

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

Relinquished by  
Sign  
Print  
Firm  
Date Time

Received by  
Sign  
Print  
Firm  
Date Time

Container Volume  
PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic  
A - Ice D - Acidified with HNO<sub>3</sub> G - Other  
B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

REMARKS: (Sample storage, nonstandard sample bottles)  
**Metals - 5 Only**  
**Cancel CN**  
**KKS**  
**6/20/98**

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

Cooler #: 687



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. 730769-01006  
PROJECT 2nd Qtr. 1998 - Seneca  
CONTACT Mike Duchesneau

LABORATORY Evergreen  
ADDRESS Wheat Ridge, CO  
CONTACT Shae Greiner

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	m/l/e							
AL805		6/20/98	0905		water						X					3	Rinse Blank
AL188		6/20/98	0945		ground water						X					3	
AL189		6/20/98	1045		ground water						X					3	
AL190		6/20/98	1145		ground water						X					3	
AL807		6/20/98	1145		ground water						X					3	<del>XXXXXXXXXX</del> KKS
AL191		6/20/98	1300		ground water						X					3	
KKS																	
m/l/e = methane, ethane, ethene																	
Sampled and Relinquished by		Received by			VOA Vial												REMARKS: (Sample storage, nonstandard sample bottles)  End of Sampling Return cooler to Parsons E.S. 30 Dan Rd Canton, MA
Sign <u>[Signature]</u>		Sign			Glass Bottle												
Print <u>Kerry Smith</u>		Print			Plastic Bottle												
Firm <u>Parsons ES</u>		Firm			Preservative												
Date <u>6/22/98</u> Time <u>1000</u>		Date			Container Volume												
Relinquished by		Received by			PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic A - Ice D - Acidified with HNO <sub>3</sub> G - Other B - Filtered E - Acidified with H <sub>2</sub> SO <sub>4</sub>												
Sign		Sign			Cooler #:												
Print		Print			ES-12												
Firm		Firm															
Date		Date			Evidence Samples tampered with? <input type="checkbox"/> No <input type="checkbox"/> 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. 730765-01006  
PROJECT Seneca 2nd Qtr. 1998  
CONTACT Mike Duchesneau

LABORATORY ITS  
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	SVGO	METALS (S)	CN	DOC	Alk, Sulf P, Lead	Nitrate	Nitrite				
AL807		6/20/98	1145		water			X		X	X	X				5	
AL150		↓	1145		↓			X		X	X	X				5	
AL191			1300							X	X	X				4	
AL189		↓	1045		↓					X	X	X				4	
<del>_____</del>																	

Sampled and Relinquished by  
 Sign [Signature]  
 Print Parsons ES  
 Firm Kerry Smith  
 Date 6/20/98 Time 1500

Received by  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

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

REMARKS: (Sample storage, nonstandard sample bottles)

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 HNO<sub>3</sub> G - Other  
 B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

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

Cooler #: 002

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

# CHAIN-OF-CUSTODY RECORD

JOB NO. 730769-01006  
 PROJECT Seneca 2nd Qtr 1998  
 CONTACT Mike Duchesneau

LABORATORY ITS  
 ADDRESS Colchester, VT  
 CONTACT Chris Olette

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	CAN	DOC	ALK SULFIDE	Nitrite	Nitrate				
AL188		6/20/98	0945		water	X			X			X	X	X			8	
AL 805			0805			X			X			X	X	X			8	Rinse Blank
AL 806			0800			X											2	Trip Blank
AL 807			1145			X											3	
AL 189			1045			X											3	
AL 190			1145			X											3	
AL191			1300			X											3	Matrix Spike revised
<del>KKK</del>																		

Sampled and Relinquished by  
 Sign [Signature]  
 Print Kerry Smith  
 Firm Parsons ES  
 Date 6/20/98 Time 1500

Received by  
 Sign \_\_\_\_\_  
 Print \_\_\_\_\_  
 Firm \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

VOA Vial	X			X			
Glass Bottle							
Plastic Bottle			X		X	X	
Preservative	A	C	A	D	A	A	A
Container Volume	40	41	42	43	44	45	46

REMARKS: (Sample storage, nonstandard sample bottles)  
Metals - 5 Only

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 HNO<sub>3</sub>  
 B - Filtered  
 E - Acidified with H<sub>2</sub>SO<sub>4</sub>  
 G - Other

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

Cooler #: 357





## **APPENDIX B**

### **1. Historical Data Summary Tables**

PT-11  
Ash Landfill

Parameters	Source: Units	Galson	Galson	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	PES	PES	PES
		Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
				1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>VOLATILE ORGANICS</b>		624		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	-	ND	ND	ND	270	ND	17	ND	3.19	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	2	ND
1,1-Dichloroethene	µg/L	ND	-	1.5	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	2	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	ND	ND	ND	2	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	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	ND	-	ND	ND	ND	ND	1	ND	2.66	ND	ND	ND	ND	ND	ND	ND	ND
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	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-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	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Xylene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Total Volatile Organics	µg/L	0	0	1.5	0	0	270	2	24	0	5.85	0	0	0	0	0	2	0

PT-11  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		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	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	Jun 98 2		
<b>VOLATILE ORGANICS</b>		NYSCLP	NYSCLP	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	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	-	-	-	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	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	ND	ND	ND	-	-	-	ND	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	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
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	ND	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
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	ND	ND	ND	-	-	-	ND	ND	ND	ND	ND	ND	7	5	ND	17	2.6		
Carbon Disulfide	µg/L	ND	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	ND
2-Hexanone	µg/L	ND	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	ND
Xylene (total)	µg/L	ND	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	7	5	0	17	2.6		

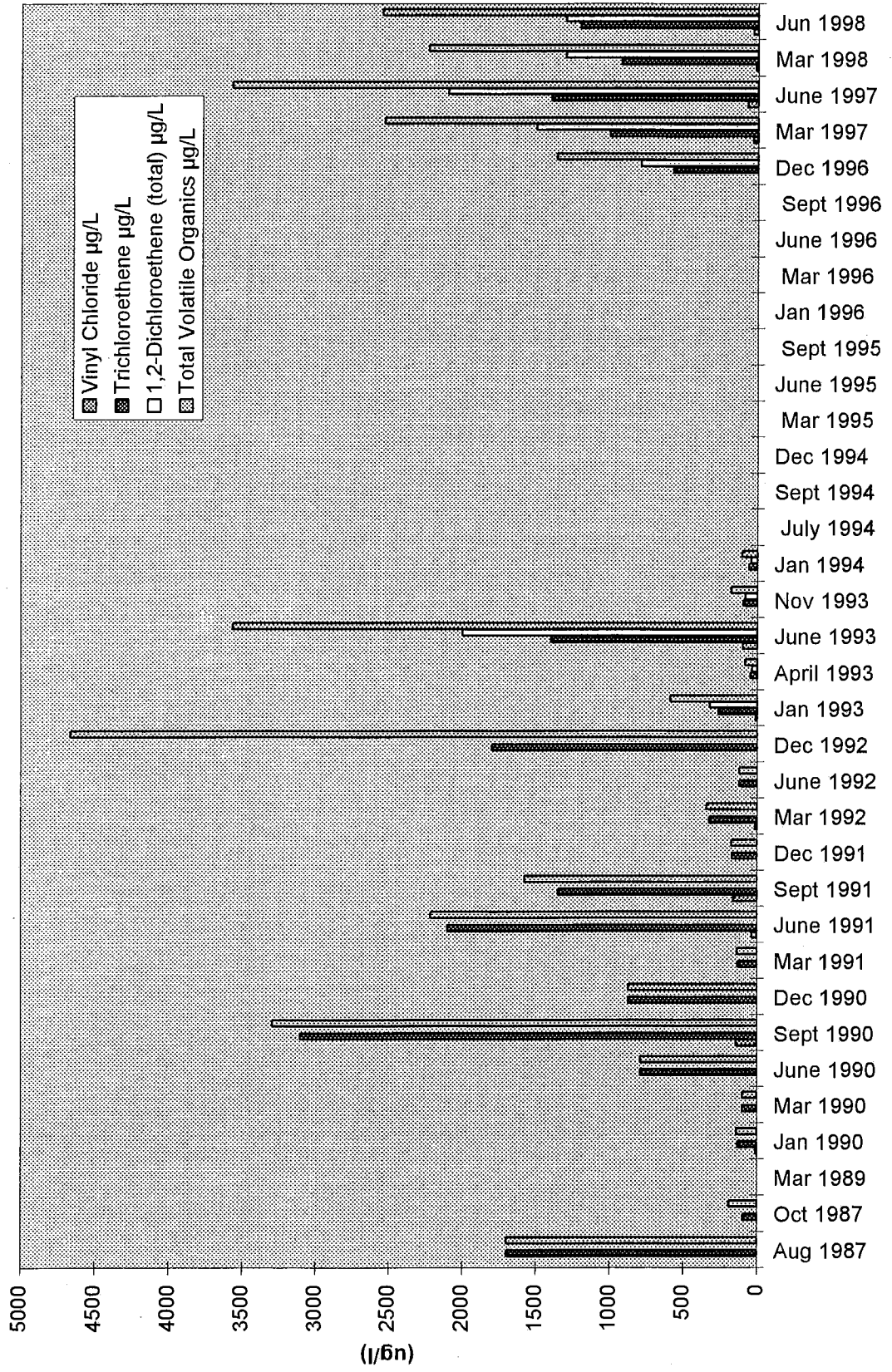
PT-11  
Ash Landfill

Parameters	Source: Units	Galson	Galson	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	PES	PES	PES
		Oct 1987	Mar 1989	Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993	
				1	1	2	3	4	1	2	3	4	2	3	4	1	2	3	
<b>METALS</b>																			
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.7	-	4090.00
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	ND	ND	-	ND	-	0.04	-	ND	-	ND	-	ND	-	-	-	0.0024	-	1.20
Barium	mg/L	0.08	0.095	-	2.1	-	3	-	0.083	-	0.23	-	0.271	-	-	-	0.333	-	155.00
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0013	-	0.43
Cadmium	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	334	-	135000.00
Chromium	mg/L	ND	ND	-	0.016	-	0.25	-	ND	-	ND	-	ND	-	-	-	0.0161	-	5.000
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0372	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0403	-	6.20
Iron	mg/L	ND	ND	-	140	-	270	-	1.68	-	12.8	-	15.8	-	-	-	17.8	-	4860.000
Lead	mg/L	ND	ND	-	0.05	-	0.06	-	ND	-	ND	-	ND	-	-	-	0.0177	-	3.00
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69.2	-	37500.00
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.18	-	181.000
Mercury	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	-	0.00015	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0355	-	ND
Potassium	mg/L	2.63	2.1	-	20	-	26	-	2.48	-	4.47	-	4.7	-	-	-	5.27	-	3590.00
Selenium	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	-	ND	-	ND
Silver	mg/L	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	-	ND	-	ND
Sodium	mg/L	59	46	-	54	-	30	-	38	-	39.8	-	37.1	-	-	-	46.6	-	35000.00
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0156	-	8.20
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.136	-	32.30
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
<b>MISCELLANEOUS</b>																			
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg CL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	33	0.01	-	10.3	-	-	-	0.028	-	0.011	-	0.032	-	-	-	ND	-	0.05
Chloride	mg/L	49	46	-	40	-	48.2	-	41.4	-	42	-	35.4	-	-	-	40	43	48.0
Conductivity (field)	µmhos/cm	1200	770	490	740	1200	720	840	710	1112	1000	1110	1000	1010	-	-	700	-	800
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	870	-	-	-	918	-	-	-	1090	1100	900.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.1	0.12	-	0.34	-	0.27	-	0.22	-	0.5	-	ND	-	-	-	0.4	ND	0.19
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-
pH (Lab)	std. units	7.2	7.8	-	7.4	-	7.4	-	7.2	-	7.6	-	7.3	-	-	-	7.4	7.31	7.29
pH (field)	std. units	8.1	-	6.5	7.22	7.22	7.4	6.4	8.63	6.34	6.3	7.4	6.96	7.18	-	-	7.38	-	7.17
Sulfate	mg/L	160	190	-	170	-	68	-	204	-	143.4	-	169	-	-	-	281	170	100.0
Total Organic Carbon (TOC)	mg/L	2.7	4.4	-	52	-	17	-	16.1	-	9.4	-	7	-	-	-	3.2	3	ND
Temperature (field)	Celsius	-	-	9	8	14	14	8	7	11	13	7	8	10	-	-	6.8	-	12.6
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>200	-	-

PT-11  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES			
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	Mar 1998	Jun 98			
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	2			
<b>METALS</b>																					
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
<b>MISCELLANEOUS</b>																					
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0025	0.0012	0.0017	0.0027	0.0019
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0.28	0.01	0.04
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	2.8	4.2	2.7	2.8
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	315	318	315	301	306
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	380	380	380	300	330
Total Organic Halogens/Halides (TOX)	mg/L	0.05	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	47	33	-	-	-	-	-	-	-	-	-	-	-	-	-	23.3	22.5	27.2	23.7	22.7
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1000	898	963	981	838
Conductivity (lab)	µmhos/cm	840	910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.39	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09	0.05	0.4	0.17	0.16
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.34	7.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.06	7.06	6.84	6.85	7.3
Sulfate	mg/L	47	170	-	-	-	-	-	-	-	-	-	-	-	-	-	153	-	-	144	117
Total Organic Carbon (TOC)	mg/L	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	NET	GTC	ES	ES	ES
		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	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
					1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>VOLATILE ORGANICS</b>					624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	ND	ND	-	ND	ND	ND	51	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	ND
Vinyl Chloride	µg/L	ND	ND	-	7	ND	ND	140	ND	ND	35	160	1.5	14	ND	ND	9	ND	100
Chloroethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	-	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	63
1,1-Dichloroethene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	7.15	ND	ND	ND	6	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	ND
Chloroform	µg/L	ND	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	ND
1,1,1-Trichloroethane	µg/L	ND	ND	-	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	ND	ND
Bromodichloromethane	µg/L	ND	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	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	1700	94	-	129	100	790	3100	870	130	2100	1350	170	323	119	1800	260	45	1400
Dibromochloromethane	µg/L	ND	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	ND
Benzene	µg/L	ND	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	ND
Bromoform	µg/L	ND	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	ND
1,1,2,2-Tetrachloroethane	µg/L	ND	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	ND
Chlorobenzene	µg/L	ND	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	ND
2-Chloroethylvinyl Ether	µg/L	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	-	-	-
1,2-Dichlorobenzene	µg/L	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	-	-	-
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	320	36	2000
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2800	-	-	-
trans-1,2-Dichloroethene	µg/L	ND	95	-	ND	ND	ND	ND	1	51	63	2.7	5.8	ND	54	-	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylene (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	1700	189	0	136	100	790	3291	870	133	2216	1580.15	174.2	342.8	119	4660	589	81	3563

PT-12  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	Mar 1998	Jun 1998
		4	1	2	3		1	2	3	4	1	2	3	4	1	2	1	2
<b>VOLATILE ORGANICS</b>																		
		NYSCLP	NYSCLP											NYSDEC	NYSDEC	NYSDEC	NYSDEC	NYSDEC
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	32	70	15	33
Chloroethane	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	17
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	95	58	-	-	-	-	-	-	-	-	-	-	570	1000	1400	920	1200
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	81	44	-	-	-	-	-	-	-	-	-	-	790	1500	2100	1300	1300
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	ND	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
Xylene (total)	µg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	176	102	0	0	0	0	0	0	0	0	0	0	1360	2532	3570	2235	2550



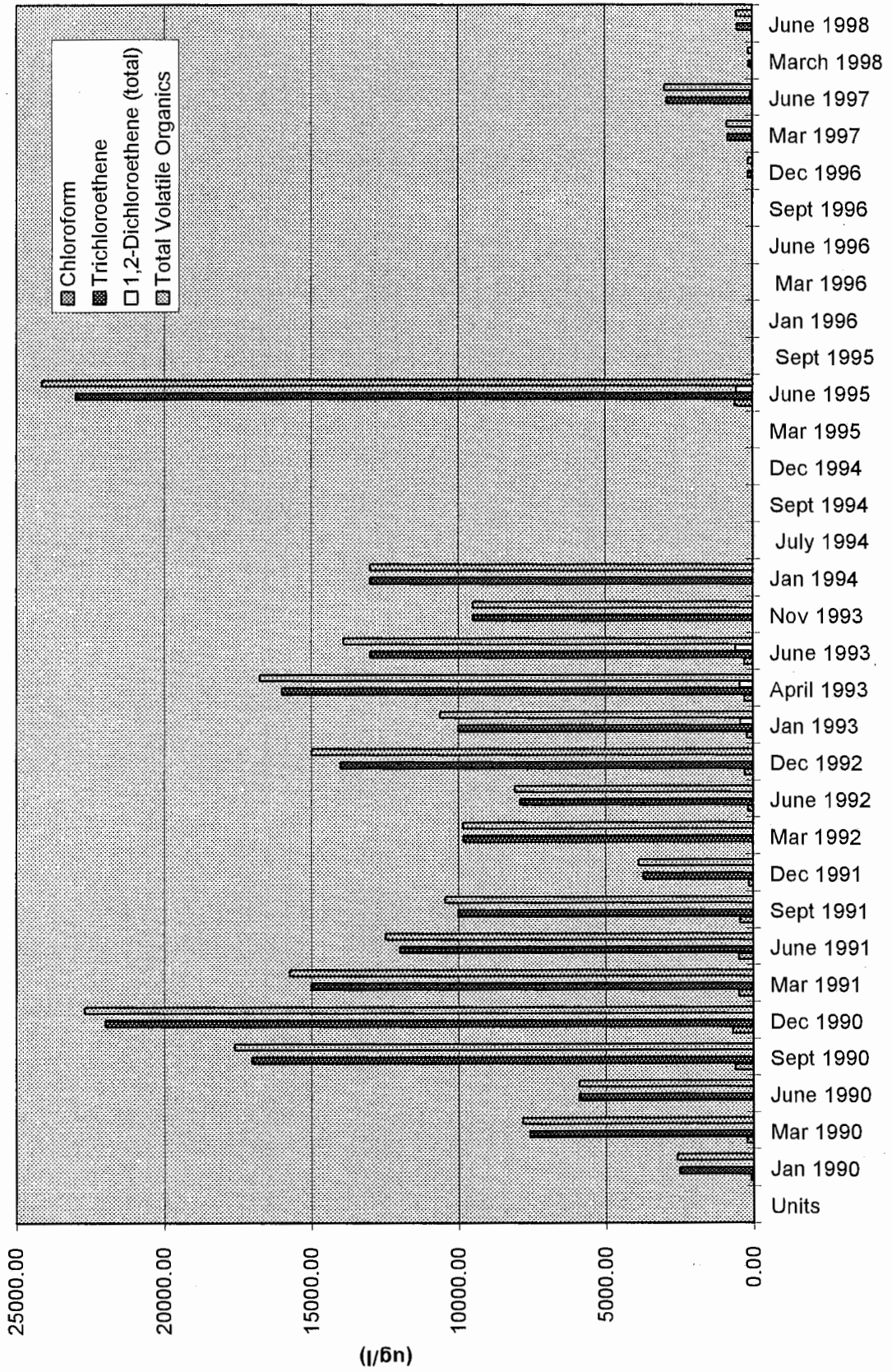
PT-12  
Ash Landfill

Parameters	Source: Units	Galson	Galson	Galson	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES	
		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	June 1992	Dec 1992	Jan 1993	April 1993	June 1993	
					1	1	2	3	4	1	2	3	4	2	3	4	1	2	3	
<b>METALS</b>																				
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.15	-	5550	
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	-	ND	-	1.8
Barium	mg/L	-	0.05	0.031	-	ND	-	ND	-	0.04	-	0.073	-	0.142	-	-	-	0.1	-	68.2
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00064	-	0.4
Cadmium	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	264	-	267000
Chromium	mg/L	-	ND	ND	-	0.01	-	ND	-	ND	-	ND	-	ND	-	-	-	0.0067	-	7.8
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0088	-	4.6
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0127	-	5.8
Iron	mg/L	-	ND	ND	-	4.5	-	7.8	-	2.03	-	3.76	-	20.3	-	-	-	8.57	-	6550
Lead	mg/L	-	ND	0.12	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	-	0.0094	-	4.1
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-	35700
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.08	-	288
Mercury	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	-	ND	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0148	-	ND
Potassium	mg/L	-	2.58	1.8	-	ND	-	5.9	-	2.39	-	3.26	-	4.83	-	-	-	2.18	-	4160
Selenium	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	-	ND	-	ND
Silver	mg/L	-	ND	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	-	ND	-	ND
Sodium	mg/L	-	100	45	-	37	-	160	-	15.8	-	129	-	47.4	-	-	-	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
<b>MISCELLANEOUS</b>																				
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	2.08	180	0.085	-	0.15	-	-	0.87	0.6	-	1.722	-	0.27	-	-	-	0.31	0.05	2.1
Chloride	mg/L	-	158	40	-	36	-	202	-	13.8	-	264	-	19.1	-	-	-	13.9	5	170
Conductivity (field)	µmhos/cm	-	1300	1400	520	460	2700	2500	860	630	2220	2210	1080	1635	970	-	-	925	-	1580
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	2250	-	1025	-	-	-	938	770	1700
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.008	ND	-
Nitrate/Nitrite Nitrogen	mg/L	-	0.33	1.4	-	0.44	-	0.21	-	0.32	-	0.24	-	0.52	-	-	-	0.01	ND	ND
Nitrate as N - Calculated	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
pH (field)	std. units	-	7	7.8	-	7.1	-	7	-	7	-	7	-	7.2	-	-	-	7.16	6.89	6.98
pH (lab)	std. units	-	7	-	6.75	6.75	6.84	7.05	6.25	7.44	6.32	6.3	7.01	6.66	7.06	-	-	6.87	-	7.16
Sulfate	mg/L	-	289	300	-	250	-	388	-	159.5	-	337.5	-	263	-	-	-	210	110	340
Total Organic Carbon (TOC)	mg/L	-	2.9	2.4	-	33	-	7	-	9.8	-	8.1	-	2	-	-	-	3	2	4
Temperature (field)	Celsius	-	-	-	8	5	15	14	8	7	12	15	10	6	12	-	-	7	-	13.3
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	-	-

PT-12  
Ash Landfill

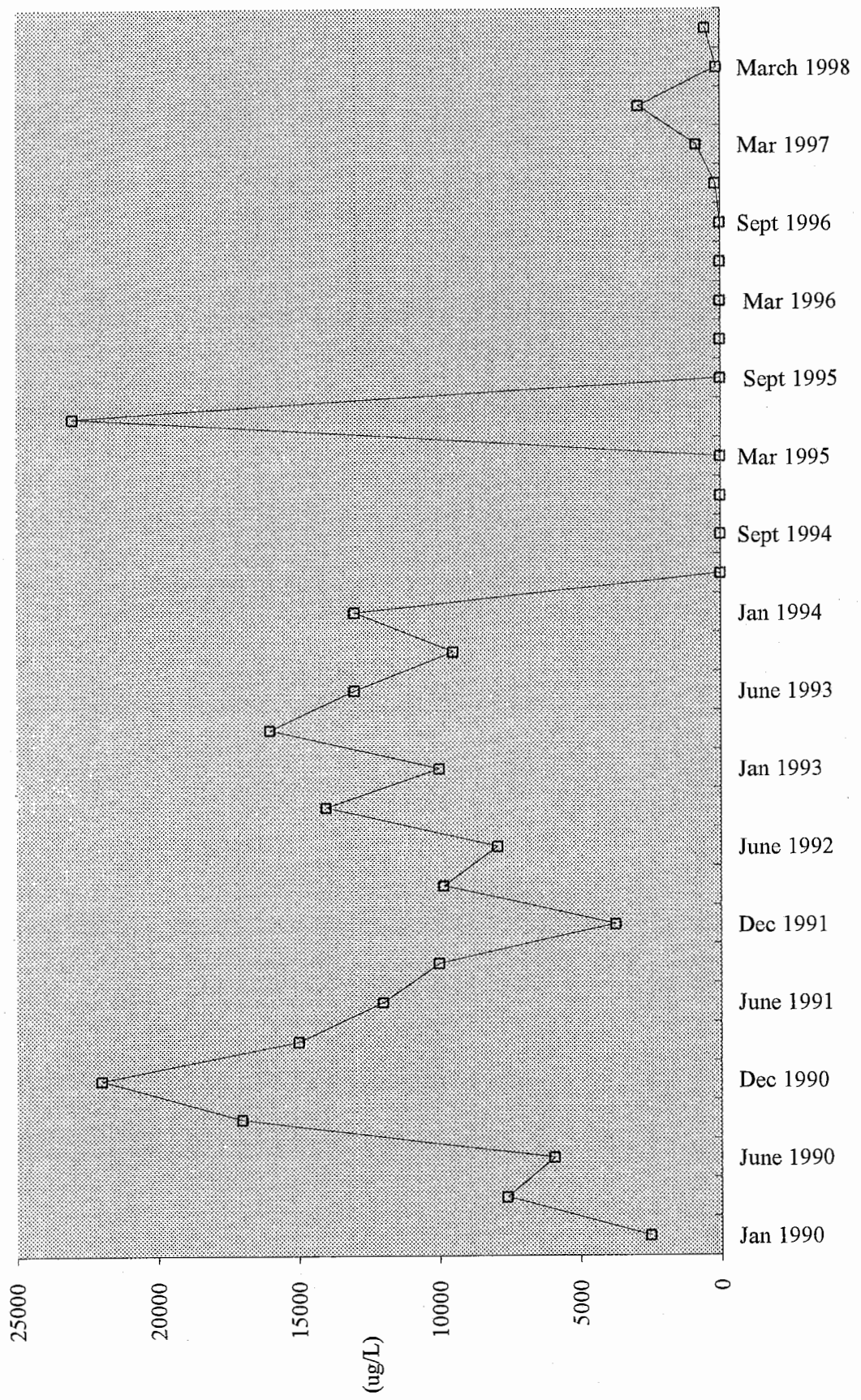
Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	Mar 1998	Jun 1998
		4	1	2	3		1	2	3	4	1	2	3	4	1	2	1	2
<b>METALS</b>																		
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																		
Ethene	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	0.011
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	0.14	0.07	0.52	0.04	0.03	0.03
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	2.4	2.2	2.9	2.4	2.4	2.4
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	401	409	323	423	376	376
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	396	370	344	334	318	318
Total Organic Halogens/Halides (TOX)	mg/L	0.06	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	ND	7	-	-	-	-	-	-	-	-	-	116	134	169	115	119	119
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	1630	1670	1650	1530	1620	1620
Conductivity (lab)	µmhos/cm	960	860	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	1.1	1.1	-	-	-	-	-	-	-	-	-	0.12	0.1	0.05	0.18	0.07	0.07
Nitrate as N - Calculated	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	7.06	7.08	-	-	-	-	-	-	-	-	-	6.51	6.68	6.63	6.69	-	-
pH (lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.78
Sulfate	mg/L	170	140	-	-	-	-	-	-	-	-	-	427	430	456	458	458	144
Total Organic Carbon (TOC)	mg/L	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>VOLATILE ORGANICS</b>		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	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
Vinyl Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	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-Dichloroethene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	1.7	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
Chloroform	µg/L	86	230	ND	610	700	490	490	457	157	11.7	175	270	200	300	300
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
Bromodichloromethane	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
Trichloroethene	µg/L	2500	7600	5900	17000	22000	15000	12000	10000	3710	9840	7920	14000	10000	16000	13000
Dibromochloromethane	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	2.58	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
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	250	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	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	440	450	590
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	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	2586.00	7830.00	5900.00	17610.00	22700.00	15740.00	12490.00	10459.58	3871.70	9851.70	8095.00	14980.00	10640.00	16750	13890

PT-18  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998	June 1998	
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	2	
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>					<b>NYSCLP</b>						<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	
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-Dichloroethane	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	-	-	-	-	600	-	-	-	-	-	ND	ND	ND	2	14	
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	9500	13000	-	-	-	-	23000	-	-	-	-	-	160.00	840	2900	130	520	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,2-Dichloroethene (total)	µg/L	ND	ND	-	-	-	-	550	-	-	-	-	-	ND	22	69	3	ND	
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	9500	13000	0	0	0	0	24150	0	0	0	0	0	160.00	862	2969	135	534	

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Ash Landfill

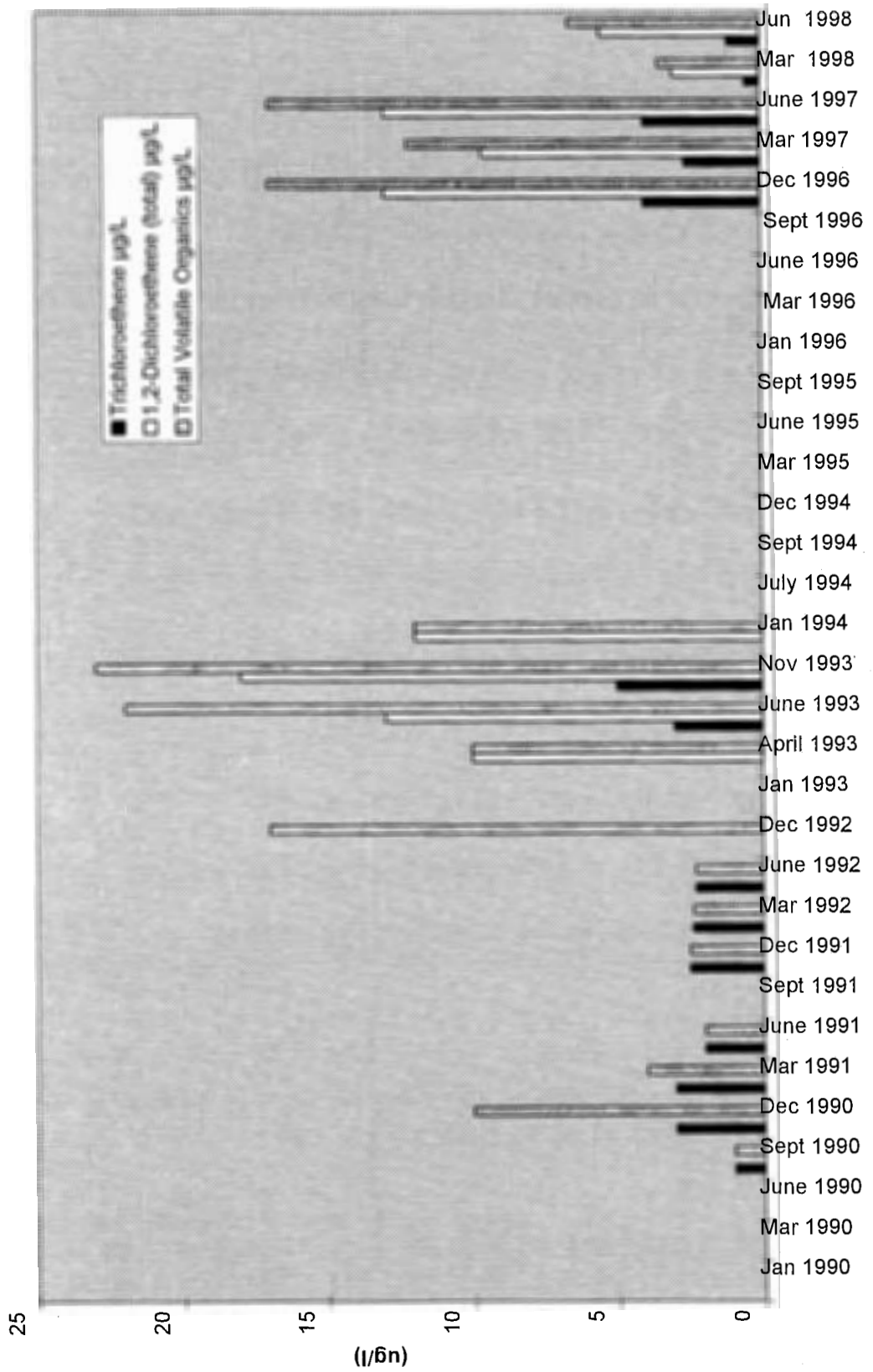
Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>METALS</b>																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	11.3	-	588
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	1.3
Barium	mg/L	-	ND	-	ND	-	0.054	-	0.043	-	0.07	-	-	0.123	-	42.2
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00079	-	0.49
Cadmium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	223	-	216000
Chromium	mg/L	-	0.003	-	ND	-	ND	-	ND	-	ND	-	-	0.0127	-	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0246	-	3.7
Iron	mg/L	-	2	-	8.5	-	3.89	-	1.38	-	8.14	-	-	14	-	825
Lead	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.0166	-	2.2
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	30.3	-	26500
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.02	-	812
Mercury	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.00036	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0185	-	ND
Potassium	mg/L	-	ND	-	5.1	-	2.77	-	2.31	-	2.79	-	-	3.54	-	2200
Selenium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Silver	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Sodium	mg/L	-	86	-	99	-	102	-	107	-	95.5	-	-	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
<b>MISCELLANEOUS COMPOUNDS</b>																
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/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Halogens/Halides (TOX)	mg/L	-	0.333	-	-	1.88	1.7	-	4.422	-	4.52	-	-	4.5	12	6.2
Chloride	mg/L	-	72	-	75.2	-	76.8	-	66.8	-	52.6	-	-	57	59	65
Conductivity (field)	µmhos/cm	670	680	1800	1600	1400	1300	1650	1710	2100	1788	1370	-	975	900	1100
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	1548	-	-	1440	1300	1400
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate as N	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.01	ND	ND
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-
pH (Lab)	std. units	-	6.9	-	6.9	-	6.9	-	7.5	-	7	-	-	7.08	7.11	6.89
pH (field)	std. units	6.7	6.8	6.89	7	6.5	7.32	6.54	6.69	6.86	6.38	6.88	-	6.89	6.89	7.05
Sulfate	mg/L	-	340	-	245	-	287.5	-	230	-	351	-	-	280	200	220
Total Organic Carbon (TOC)	mg/L	-	32	-	12	-	14.6	-	11.4	-	4	-	-	4	5	5
Temperature (field)	Celsius	8	5	15	14	10	8	13	15	9	6	11	-	7.25	5	12.7
Nephelometric Turbidity Units	NTUs	8	5	15	14	10	8	13	15	9	-	-	-	>200	46.9	-

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Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998	June 1998
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	2
<b>METALS</b>																		
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
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	161000	ND
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	-	-	2.4
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	186
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	-	-	ND
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21900
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	347.00	112	473	-	-	7.7
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	6.20	4.2	3.6	-	-	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
<b>MISCELLANEOUS COMPOUNDS</b>																		
Ethene	mg/L	-	-	-	-	-	-	ND	-	-	-	-	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021
Methane	mg/L	-	-	-	-	-	-	0.424	-	-	-	-	-	-	-	-	-	-
CO2	mg/L	-	-	-	-	-	-	629	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.01	-	-	-	-	0.00	0.01	0.15	0.01	0.01	0.04
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	6.1	-	-	-	-	5.40	4.5	5.5	4.3	4.9	-
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	315.00	353	283	343	324	-
Alkalinity (total)	mg CaCO3/	1.5	6	-	-	-	-	548	-	-	-	-	532.00	504	516	368	440	-
Total Organic Halogens/Halides (TOX)	mg/L	36	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	57.7	-	-	-	-	25.90	22.6	23.2	10.9	12	-
Conductivity (field)	µmhos/cm	1400	1300	-	-	-	-	-	-	-	-	-	1175.00	1081	1173	1173	1125	-
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	1450	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	0.1	nd	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-
Nitrate as N	mg/L	-	-	-	-	-	-	ND	-	-	-	-	0.01	0.07	0.05	0.14	0.13	-
Nitrate as N - Calculation	mg/L	6.91	6.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	6.87	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	240	250	-	-	-	-	-	-	-	-	-	6.41	6.42	6.48	6.56	6.64	-
Sulfate	mg/L	6	4	-	-	-	-	231	-	-	-	-	191.00	154	196	140	170	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	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	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>VOLATILE ORGANICS</b>		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP		
Chloromethane	µg/L	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
Vinyl Chloride	µg/L	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
Methylene Chloride	µg/L	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
1,1-Dichloroethane	µg/L	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
1,2-Dichloroethane	µg/L	ND	ND	ND	ND	ND	1	ND	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	ND
Carbon Tetrachloride	µg/L	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
1,2-Dichloropropane	µg/L	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
Trichloroethene	µg/L	ND	ND	ND	1	3	3	2	ND	2.5	2.4	2.3	ND	-	ND	3
Dibromochloromethane	µg/L	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
Beuzene	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	6
trans-1,3-Dichloropropene	µg/L	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
Tetrachloroethene	µg/L	ND	ND	ND	ND	5	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
Toluene	µg/L	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
Ethylbenzene	µg/L	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	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	10	13
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	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
4-Methyl-2 Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND
Total Volatile Organics	µg/L	0	0	0	1	10	4	2	0	2.5	2.4	2.3	17	0	10	22

PT-21A  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	Mar 1998	Jun 1998	
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	2	
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>											<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	
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	5	ND	-	-	-	-	-	-	-	-	-	-	4	2.6	4	0.5	1.1	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/L	18	12	-	-	-	-	-	-	-	-	-	-	13	9.6	13	3	5.5	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	23	12	0	0	0	0	0	0	0	0	0	0	17	12.2	17	3.5	6.6	-

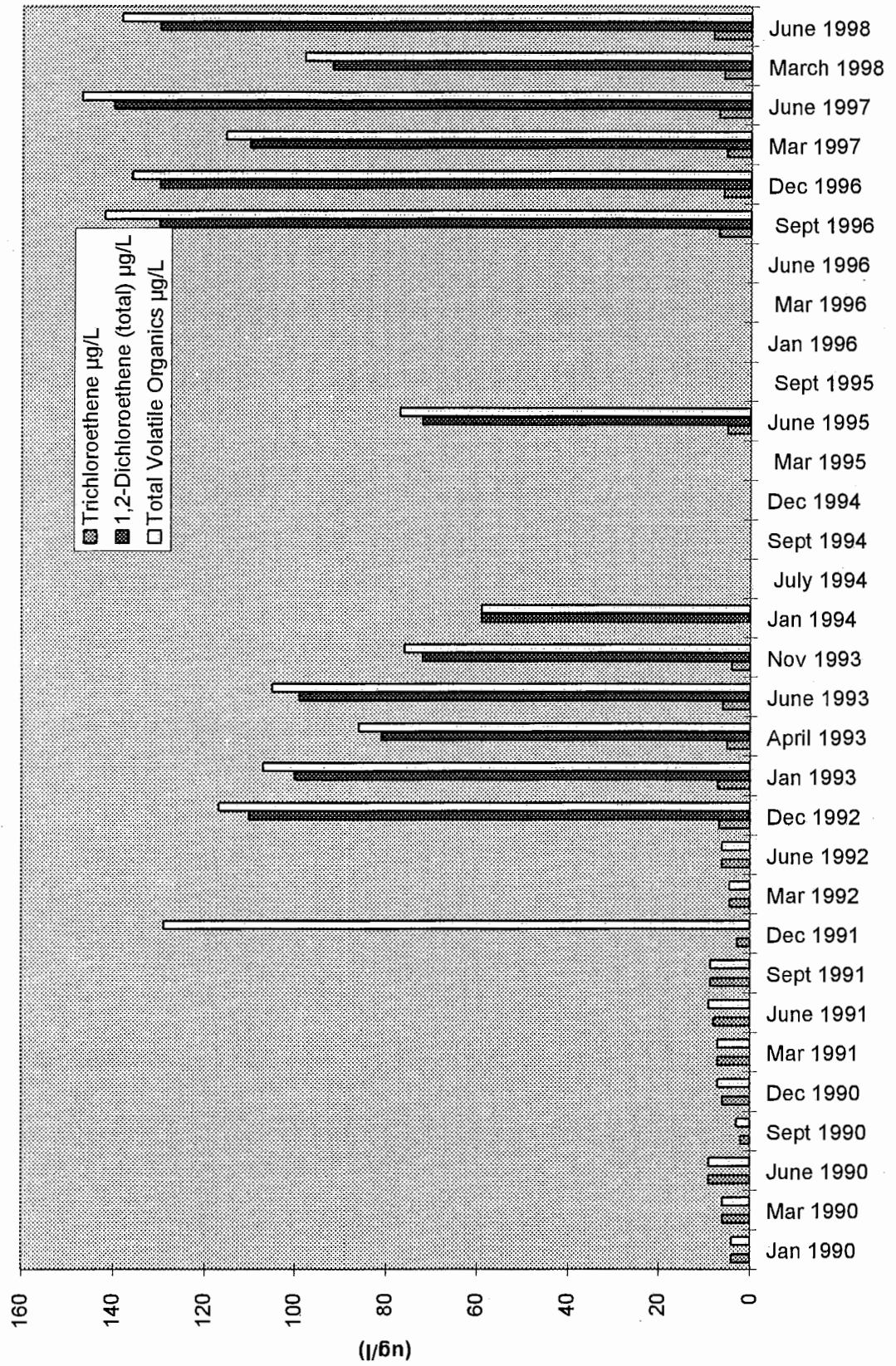
PT-21A  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		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	Jan 1993 1	April 1993 2	June 1993 3
<b>METALS</b>																
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	mg/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	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																
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	-	63	-	-	-	-	-	-	-	-	-
Conductivity (field)	µmhos/cm	460	400	670	750	900	410	980	1100	1130	1130	970	-	-	600	-
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	-	-	7.04	-
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	-	-	9	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PT-21A  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		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	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	Jun 1998 2
<b>METALS</b>																		
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	
<b>MISCELLANEOUS</b>																		
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0123	0.011	0.0022	0.0082	0.0064
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.01	0.1	0.1	0.1	0.16
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	1.9	1.9	2	1.8	1.8
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	330	212	297	241	230
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	314	272	244	244	260
Total Organic Halogens/Halides (T	mg/L	0.05	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	84	67	-	-	-	-	-	-	-	-	-	-	119	138	134	117	125
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	1171	1151	1121	1095	1217
Conductivity (lab)	µmhos/cm	990	890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.41	0.31	-	-	-	-	-	-	-	-	-	-	0.61	0.44	0.23	0.63	0.35
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.49	7.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	6.75	6.91	7.18	6.95	6.96
Sulfate	mg/L	140	120	-	-	-	-	-	-	-	-	-	-	203	203	198	218	202
Total Organic Carbon (TOC)	mg/L	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>VOLATILE ORGANICS</b>		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	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
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-Dichloroethene	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
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	1	1	ND	1	ND	126	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
Bromodichloromethane	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
Trichloroethene	µg/L	4	6	9	2	6	7	8	8.61	2.8	4.4	6.2	6.7	7	5	6
Dibromochloromethane	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-Dichloropropene	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	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	110	100	81	99
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	ND	ND	-	ND	ND	ND
Total Volatile Organics	µg/L	4	6	9	3	7	7	9	8.61	128.8	4.4	6.2	116.7	107	86	105

PT-24  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		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	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>					<b>NYSCLP</b>					<b>524.2</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>
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	4	ND	-	-	-	-	5	-	-	-	-	7	6	5.4	7	6
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	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
1,2-Dichloroethene (total)	µg/L	72	59	-	-	-	-	72	-	-	-	-	130	130	110	140	92
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
Acetone	µg/L	ND	ND	-	-	-	-	ND	-	-	-	-	5	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	76	59	0	0	0	0	77	0	0	0	0	142	136	115.4	147	98



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Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>METALS</b>																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	13.5	-	1180
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.0016	-	ND
Barium	mg/L	-	ND	-	ND	-	0.065	-	0.13	-	0.054	-	-	0.116	-	49.8
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	0.32
Cadmium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	125	-	1113000
Chromium	mg/L	-	0.041	-	ND	-	ND	-	0.037	-	ND	-	-	0.0176	-	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0088	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0111	-	2.6
Iron	mg/L	-	34	-	1.2	-	8.79	-	33.7	-	4.13	-	-	17.8	-	1460
Lead	mg/L	-	0.013	-	ND	-	ND	-	0.02	-	ND	-	-	0.0091	-	1.1
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	17.2	-	12500
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.375	-	51.1
Mercury	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0206	-	ND
Potassium	mg/L	-	ND	-	2.1	-	2.2	-	5.85	-	1.86	-	-	3.6	-	1890
Selenium	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	0.0012	-	ND
Silver	mg/L	-	ND	-	ND	-	ND	-	ND	-	ND	-	-	ND	-	ND
Sodium	mg/L	-	15	-	14	-	13.4	-	16.2	-	14.1	-	-	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
<b>MISCELLANEOUS</b>																
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 (TOC)	mg/L	-	0.0138	-	-	-	0.054	-	0.07	-	0.029	-	-	0.06	-	0.05
Chloride	mg/L	-	30	-	17.4	-	19.7	-	16.2	-	21	-	-	17.6	-	16
Conductivity (field)	µmhos/cm	350	330	510	500	540	420	725	770	740	700	650	-	425	390	500
Conductivity (lab)	µmhos/cm	-	-	-	-	-	540	-	-	-	627	-	-	663	620	650
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	0.26	-	0.34	-	0.17	-	0.43	-	0.11	-	-	0.18	0.28	0.06
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.18	-	-
pH (Lab)	std. units	-	7.2	-	7	-	7.2	-	7.7	-	7.2	-	-	7.17	7.16	6.95
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	-	6.7	7.13	7.54
Sulfate	mg/L	-	120	-	125	-	80	-	93	-	75.7	-	-	55	44	37
Total Organic Carbon (TOC)	mg/L	-	16	-	4.4	-	16.7	-	9.2	-	4	-	-	2	2	ND
Temperature (field)	Celsius	7.5	7	15	16	9	7	13	15	8	6	11	-	6	5	13.7
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	>200	-	-

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Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998	June 1998
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	2
<b>METALS</b>																		
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																		
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	-	-	-	-	-	-	275	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.12	-	-	-	-	-	0	0.07	0.15	0	0
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	4.6	-	-	-	-	-	1.6	1.5	2	1.8	1.8
Redox Potential	mV	-	-	-	-	-	-	372.4	-	-	-	-	-	359	331	329	358	342
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	288	-	-	-	-	-	332	326	324	254	280
Total Organic Halogens/Halides (TO Chloride)	mg/L	ND	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	13	14	-	-	-	-	40.3	-	-	-	-	-	29.4	33.3	27.8	22.1	24.8
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	810	840	801	664	831
Conductivity (lab)	µmhos/cm	650	750	-	-	-	-	763	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.33	0.26	-	-	-	-	0.15	-	-	-	-	-	1.3	0.91	0.66	0.78	0.4
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.17	7.33	-	-	-	-	7.09	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	6.62	6.68	6.65	6.7	6.8
Sulfate	mg/L	47	49	-	-	-	-	79	-	-	-	-	-	118	126	116	128	126
Total Organic Carbon (TOC)	mg/L	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>VOLATILE ORGANICS</b>		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP
Chloromethane	µg/L	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
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	2	ND
1,1-Dichloroethene	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
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
Bromodichloromethane	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
Trichloroethene	µg/L	ND	ND	ND	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	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-Dichloropropene	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
1,4-Dioxane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-
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
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	-
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
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0

MW-27  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		Nov 1993	Jan 1994	July 1994	Sept 1994	1994	Mar. 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998	June 1998	
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	1	
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>				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	ND	ND	ND
Bromomethane	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-Dichloroethene	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
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
Bromodichloromethane	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
Trichloroethene	µg/L	ND	ND	ND	-	-	-	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	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-Dichloropropene	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
1,4-Dioxane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-
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
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	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
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	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
Xylenes (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	0	50	0

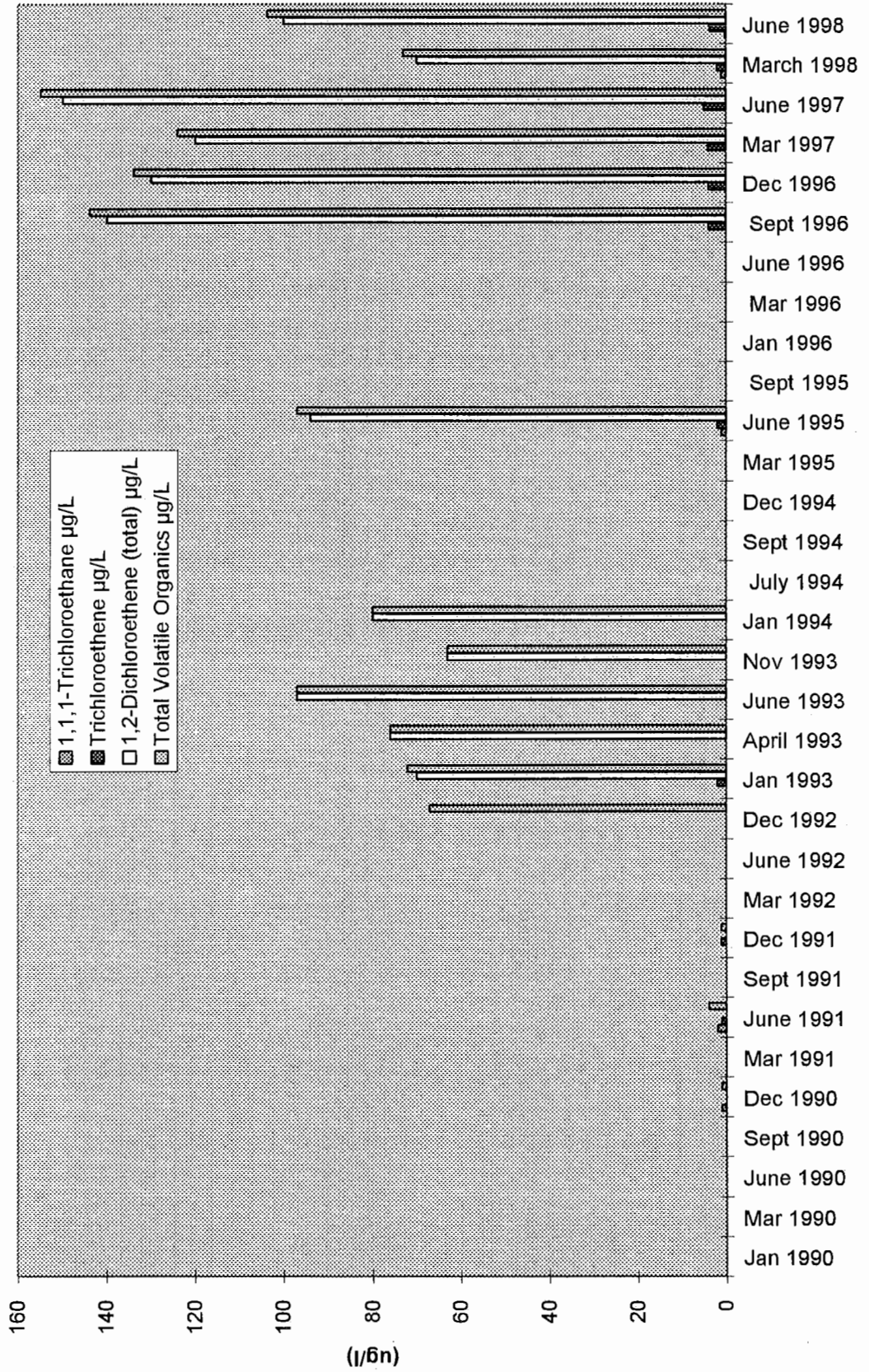
MW-27  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>METALS</b>																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.4	-	1090.0
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	0.0029	-	1.5
Barium	mg/L	-	-	-	-	-	0.072	-	-	-	0.072	-	-	0.0996	-	113.0
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.00043	-	ND
Cadmium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	153	-	123000.0
Chromium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0066	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0048	-	2.8
Iron	mg/L	-	-	-	-	-	10.2	-	-	-	8.13	-	-	2.49	-	3320.0
Lead	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	0.0032	-	ND
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	15.5	-	19000.0
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.759	-	818.0
Mercury	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0058	-	ND
Potassium	mg/L	-	-	-	-	-	4.67	-	-	-	3.2	-	-	3.51	-	6210.0
Selenium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	1.1
Silver	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Sodium	mg/L	-	-	-	-	-	17.8	-	-	-	20.1	-	-	17.4	-	16500.0
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	3.5
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0171	-	12.9
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
<b>MISCELLANEOUS</b>																
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 Chloride)	mg/L	-	-	-	-	-	0.023	-	-	-	0.01	-	-	ND	ND	ND
Conductivity (field)	µmhos/cm	480	470	650	560	560	490	855	860	870	660	690	-	427	445	600
Conductivity (lab)	µmhos/cm	-	-	-	-	-	630	-	-	-	615	-	-	661	700	760
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.04	-	-	-	ND	-	-	0.06	ND	ND
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.06	-	-
pH (Lab)	std. units	-	-	-	-	-	7.4	-	-	-	7.6	-	-	7.23	7.17	7.32
pH (field)	std. units	7.05	6.81	7.26	7.45	6.55	7.85	6.62	7.19	7.41	7.19	7.2	-	7.49	7.16	7.20
Sulfate	mg/L	-	-	-	-	-	90.4	-	-	-	80.8	-	-	41	47	53
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	18.9	-	-	-	8	-	-	1.4	2	ND
Temperature (field)	Celsius	7	6	15	16	8	7	14	19	7	6	12	-	6	7.5	13
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	>200	26.1	-

MW-27  
Ash Landfill

Parameters	Source: Units	PES Nov 1993 4	PES Jan 1994 1	PES July 1994 2	PES Sept 1994 3	PES 1994 4	PES Mar 1995 1	PES June 1995 2	PES Sept 1995 3	PES Jan 1996 4	PES Mar 1996 1	PES June 1996 2	PES Sept 1996 3	PES Dec 1996 4	PES Mar 1997 1	PES June 1997 2	PES March 1998 1	PES June 1998 1
<b>METALS</b>																		
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																		
Ethene	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.184	-	-	-	-	-	0.002	ND	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	268	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.21	-	-	-	-	-	0.17	0.41	0.72	0.22	0.17
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	2.3	-	-	-	-	-	1.9	1.9	2.3	2.8	2
Redox Potential	mV	-	-	-	-	-	-	394.7	-	-	-	-	-	287	323	289	314	275
Alkalinity (total)	mg CaCO3/L	0.08	0.05	-	-	-	-	292	-	-	-	-	-	318	288	300	258	307
Total Organic Halogens/Halides (TO	mg/L	34	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	37.8	-	-	-	-	-	19.4	23.5	24.6	18.9	13.2
Conductivity (field)	µmhos/cm	600	770	-	-	-	-	-	-	-	-	-	-	672	657	825	552	619
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	633	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	0.15	ND	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	0.098	-	-	-	-	-	0.03	0.03	0.07	2.18	1.11
Nitrate as N - Calculation	mg/L	7.42	7.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	7.73	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	72	64	-	-	-	-	-	-	-	-	-	-	7.03	6.98	6.91	7.13	7.25
Sulfate	mg/L	3	1	-	-	-	-	50.7	-	-	-	-	-	44.3	48.6	67.8	70.2	44.3
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

MW-29



Note: Well was not sampled Sept 1990, Sept 1991, July 1994-Mar 1995 and Sept 1995-June 1996.

MW-29  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		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	Jan 1993 1	April 1993 2	June 1993 3
<b>METALS</b>																
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	59.6	-	76000.0
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Arsenic	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	0.0015	-	3.1
Barium	mg/L	-	-	-	-	-	0.227	-	-	-	0.327	-	-	0.427	-	420.0
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0032	-	4.4
Cadmium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	2.4
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	278	-	274000.0
Chromium	mg/L	-	-	-	-	-	0.043	-	-	-	0.088	-	-	0.0809	-	116.0
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0636	-	82.4
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0851	-	172.0
Iron	mg/L	-	-	-	-	-	69.5	-	-	-	-	-	101	92.4	-	162000.0
Lead	mg/L	-	-	-	-	-	ND	-	-	-	0.028	-	-	0.0267	-	43.1
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	58	-	63700.0
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	3.7	-	4030.0
Mercury	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	0.00018	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.132	-	191.0
Potassium	mg/L	-	-	-	-	-	5	-	-	-	8.42	-	-	9.06	-	8740.0
Selenium	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Silver	mg/L	-	-	-	-	-	ND	-	-	-	ND	-	-	ND	-	ND
Sodium	mg/L	-	-	-	-	-	16.1	-	-	-	18.3	-	-	21.9	-	26900.0
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0753	-	102.0
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.325	-	498.0
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	3
<b>MISCELLANEOUS</b>																
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	-	-	-	-	-	0.037	-	-	-	0.03	-	-	0.04	0.06	0.10
Chloride	mg/L	-	-	-	-	-	18.7	-	-	-	21	-	-	15.2	14	23.0
Conductivity (field)	µmhos/cm	440	420	580	-	550	520	830	-	860	810	770	-	492	480	580
Conductivity (lab)	µmhos/cm	-	-	-	-	-	620	-	-	-	725	-	-	761	770	750.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.46	-	-	-	0.31	-	-	0.24	0.38	0.17
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.24	-	-
pH (Lab)	std. units	-	-	-	-	-	7.2	-	-	-	7.2	-	-	7.13	7.11	7.13
pH (field)	std. units	6.85	6.94	7.25	-	6.2	7.9	6.65	-	7.17	7.08	7	-	7.34	7.4	7.63
Sulfate	mg/L	-	-	-	-	-	65	-	-	-	93.6	-	-	87	71	66.0
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	75	-	-	-	5	-	-	2.1	ND	2.0
Temperature (field)	Celsius	8	7	15	-	9	7	13	-	10	5	10	-	6	5	13.5
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	>200	-	-



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Ash Landfill

Parameters	Source: Units	PES Nov 1993 4	PES Jan 1994 1	PES July 1994 2	PES Sept 1994 3	PES Dec 1994 4	PES Mar 1995 1	PES June 1995 2	PES Sept 1995 3	PES Jan 1996 4	PES Mar 1996 1	PES June 1996 2	PES Sept 1996 3	PES Dec 1996 4	PES Mar 1997 1	PES June 1997 2	PES March 98 1	PES June 98 2
<b>METALS</b>																		
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	362
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Barium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52.2
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	138000
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	378
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	16.7	ND	ND	ND
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	168000
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	8.9	4.9	10.6	2.9
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND
Potassium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	802
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Sodium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16600
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.8
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
<b>MISCELLANEOUS</b>																		
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	-	-	-	-	-	-	316	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.24	-	-	-	-	-	0.03	0.02	0.22	0.02	0.05
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	3.2	-	-	-	-	-	1.8	1.6	2.1	1.9	2
Redox Potential	mV	-	-	-	-	-	-	365.6	-	-	-	-	-	349	337	337	343	363
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	313	-	-	-	-	-	342	336	308	308	318
Total Organic Halogens/Halides (TOX)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	13	25	-	-	-	-	58.2	-	-	-	-	-	27.6	41.1	65.3	13.5	17.9
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	831	934	1028	699	848
Conductivity (lab)	µmhos/cm	750	520	-	-	-	-	944	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.51	0.37	-	-	-	-	-	-	-	-	-	-	1.7	1.4	1.5	0.69	0.67
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	0.21	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.2	7.2	-	-	-	-	7.06	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	6.64	6.64	6.61	6.56	6.82
Sulfate	mg/L	6.1	79	-	-	-	-	126	-	-	-	-	-	117	151	204	119	122
Total Organic Carbon (TOC)	mg/L	2	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

MW-30  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993	
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3	
<b>VOLATILE ORGANICS</b>		624	624	624	624	624	624	624	624	624	624	624	624	NYSCLP	NYSCLP	NYSCLP	
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	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	
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	ND	ND	-	-	2.4	ND	ND	ND	ND	ND	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	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	
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	-	-	-	
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	
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	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	
Total Volatile Organics	µg/L	0	0	0	1	0	0	0	0	2.4	0	0	0	0	0	0	

MW-30  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	
		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	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2	
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>				<b>524.2</b>			<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	
Chloromethane	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	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
Chloroethane	µg/L	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
1,1-Dichloroethene	µg/L	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
Chloroform	µg/L	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
1,1,1-Trichloroethane	µg/L	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
Bromodichloromethane	µg/L	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
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	µg/L	ND	ND	0.8	-	-	0.6	-	-	0.7	1	1	1	ND	ND	ND	ND	ND	0.52
Dibromochloromethane	µg/L	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
Benzene	µg/L	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
Bromoform	µg/L	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
1,1,2,2-Tetrachloroethane	µg/L	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
Chlorobenzene	µg/L	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
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	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	ND	ND	ND
Carbon Disulfide	µg/L	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
2-Hexanone	µg/L	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
Xylenes (total)	µg/L	ND	ND	ND	-	-	ND	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0.8	0	0	0.6	0	0	0.7	1	1	1.3	0	0	0	0	0	0.52

MW-30  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	GTC	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	April 1993	June 1993	
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3	
<b>METALS</b>																	
Aluminum	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	1.06	-	-
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Arsenic	mg/L	-	-	-	-	-	ND	ND	-	-	-	-	ND	-	0.0019	-	-
Barium	mg/L	-	-	-	-	-	0.054	ND	-	-	-	-	0.049	-	0.0678	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00043	-	-
Cadmium	mg/L	-	-	-	-	-	ND	ND	-	-	-	-	ND	-	ND	-	-
Calcium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	119	-	-
Chromium	mg/L	-	-	-	-	-	ND	ND	-	-	-	-	ND	-	ND	-	-
Cobalt	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0041	-	-
Iron	mg/L	-	-	-	-	-	7.08	ND	-	-	-	-	3.92	-	0.682	-	-
Lead	mg/L	-	-	-	-	-	ND	ND	-	-	-	-	ND	-	0.0025	-	-
Magnesium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-
Manganese	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.356	-	-
Mercury	mg/L	-	-	-	-	-	ND	ND	-	-	-	-	ND	-	0.00007	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Potassium	mg/L	-	-	-	-	-	2.38	ND	-	-	-	-	2.36	-	1.67	-	-
Selenium	mg/L	-	-	-	-	-	ND	ND	-	-	-	-	ND	-	ND	-	-
Silver	mg/L	-	-	-	-	-	ND	ND	-	-	-	-	ND	-	ND	-	-
Sodium	mg/L	-	-	-	-	-	15.8	ND	-	-	-	-	16.5	-	18.2	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Vanadium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0189	-	-
Cyanide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
<b>MISCELLANEOUS</b>																	
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	-	ND	ND	-
Chloride	mg/L	-	-	-	-	-	-	26.6	-	-	-	-	32.5	-	28	28	-
Conductivity (field)	µmhos/cm	420	390	-	660	620	420	-	-	-	-	850	720	760	410	365	600
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	645	-	689	630	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	0.13	0.35	-
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	0.05	-	-	-	-	-	-	0.13	-	-
pH (Lab)	std. units	-	-	-	-	-	-	7.3	-	-	-	-	7.4	-	7.29	7.24	-
pH (field)	std. units	6.9	7.11	7.27	7.3	7.15	8.03	-	-	-	-	7.25	7.14	7.12	7.14	7.4	7.81
Sulfate	mg/L	-	-	-	-	-	-	35.7	-	-	-	-	88.4	-	57	39	-
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	13.6	-	-	-	-	2	-	1.9	2	-
Temperature (field)	Celcius	6	4	16	15	6	5	-	-	-	-	10	5	12	4	5	14.4
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	>200	90	-

MW-30  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998	June 1998
<b>METALS</b>																		
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																		
Ethene	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.0008	ND	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.02	0	-	0.06	0
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	-	-	-	-	-	2	1.8	2.5	1.9	2
Redox Potential	mV	-	-	-	-	-	-	-	-	-	-	-	-	345	305	305	294	274
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	-	-	-	-	-	266	264	300	240	257
Total Organic Halogens/Halides (TOX)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	28	29	-	-	-	-	-	-	-	-	-	-	32.4	26.4	33.1	16.9	12
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	586	599	711	495	544
Conductivity (lab)	µmhos/cm	760	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.26	0.19	-	-	-	-	-	-	-	-	-	-	0.07	0.12	0.16	0.11	0.11
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.25	7.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	6.82	6.97	6.97	6.82	6.97
Sulfate	mg/L	57	32	-	-	-	-	-	-	-	-	-	-	47.7	42.2	46.1	45.7	30.5
Total Organic Carbon (TOC)	mg/L	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

MW-36  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	Apr 1993	Jun 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>METALS</b>																
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
<b>MISCELLANEOUS</b>																
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	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	35	29	29.00
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	500	470	525.00
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	8070	760	750.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	3.4	2.5	1.70
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	3.4	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	7.3	7.7	7.07
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	7	7.30	7.45
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	63	78	68.00
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.1	1.0	2.00
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	PES	PES	PES	PES	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	arch 1998	June 1998
<b>METALS</b>																		
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																		
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	-	-	-	-	-	-	-	270	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	0	0.03	-	-	0.03
Sulfide	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	-	1.8	-	-	-	-	1.2	1.7	1.5	1.5	1.2
Redox Potential	mV	-	-	-	-	-	-	-	379.3	-	-	-	-	330	296	305	311	301
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	-	273	-	-	-	-	336	308	308	260	300
Total Organic Halogens/Halides (	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	27	37	-	-	-	-	-	48.8	-	-	-	-	28.9	29.9	30.6	18.2	19.8
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	772	735	723	672	669
Conductivity (lab)	µmhos/cm	550	990	-	-	-	-	-	706	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	0.62	1.1	-	-	-	-	-	-	-	-	-	-	0.74	0.87	1.2	1.91	1.8
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	7.37	7.27	-	-	-	-	-	7.25	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	6.77	6.85	6.96	6.84	6.99
Sulfate	mg/L	30	70	-	-	-	-	-	62.6	-	-	-	-	62.4	70.3	62.8	56.3	52.6
Total Organic Carbon (TOC)	mg/L	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

MW-40  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	Apr 1993	Jun 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>VOLATILE ORGANICS</b>													<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	
Chloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromomethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Vinyl Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Methylene Chloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	2	ND
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chloroform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,1-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Tetrachloride	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromodichloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,2-Dichloropropane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
cis-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Trichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Dibromochloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Benzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Bromoform	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Tetrachloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
1,1,2,2-Tetrachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Toluene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Chlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	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	ND	ND
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Carbon Disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Styrene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Xylenes (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	2.00	0.00



MW-40  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES	PES		
		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	Mar 1996 1	June 1996 2	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2		
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>		
Chloromethane	µg/L	ND	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	ND	ND
Vinyl Chloride	µg/L	ND	ND	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	ND	ND
Methylene Chloride	µg/L	ND	ND	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	ND	ND
1,1-Dichloroethane	µg/L	ND	ND	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	ND	ND
1,2-Dichloroethane	µg/L	ND	ND	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	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	ND	ND	ND
Bromodichloromethane	µg/L	ND	ND	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	ND	ND
cis-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	-	ND	ND	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	ND	ND	ND	ND	ND	ND
Dibromochloromethane	µg/L	ND	ND	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	ND	ND
Benzene	µg/L	ND	ND	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	ND	ND
Bromoform	µg/L	ND	ND	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	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	ND	ND
Toluene	µg/L	ND	ND	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	ND	ND
Ethylbenzene	µg/L	ND	ND	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
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	ND	ND	ND	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
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	ND	ND	ND	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	ND	ND	ND
4-Methyl-2-Pentanone	µg/L	ND	ND	ND	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	ND	ND	ND
Styrene	µg/L	ND	ND	ND	ND	-	ND	ND	ND	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	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	0	0	0	0

MW-40  
Ash Landfill

Parameters	Source: Units	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	NET	ES	ES	ES
		Jan 1990	Mar 1990	June 1990	Sept 1990	Dec 1990	Mar 1991	June 1991	Sept 1991	Dec 1991	Mar 1992	June 1992	Dec 1992	Jan 1993	Apr 1993	Jun 1993
		1	1	2	3	4	1	2	3	4	2	3	4	1	2	3
<b>METALS</b>																
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
<b>MISCELLANEOUS</b>																
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	0.02
Chloride	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	5.9	4	6.00
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	435	390	450.00
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	-	643	610	570.00
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.004	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.11	ND	0.25
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.106	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	7.49	7.29	7.21
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	-	6.82	7.24	7.88
Sulfate	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	93	95	100.00
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.3	ND	2.00
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	PES	PES	PES	PES
		Nov 1993	Jan 1994	July 1994	Sept 1994	Dec 1994	Mar 1995	June 1995	Sept 1995	Jan 1996	Mar 1996	June 1996	Sept 1996	Dec 1996	Mar 1997	June 1997	March 1998	June 1998
		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	2
<b>METALS</b>																		
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>																		
Ethene	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	ND	-	-	-	-	0.0033	ND	ND	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	221	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	ND	-	-	-	-	0.01	0.14	0.26	0.02	0.05	
Sulfide	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	-	-	-	-	
DOC	mg C/L	-	-	-	-	-	-	1.4	-	-	-	-	0.9	1.1	1.8	1.8	1.5	
Redox Potential	mV	-	-	-	-	-	-	362.3	-	-	-	-	309	304	317	288	297	
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	217	-	-	-	-	249	236	240	246	252	
Total Organic Halogens/Halides (TOX)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloride	mg/L	6	5	-	-	-	-	12.5	-	-	-	-	7.7	7.6	8.6	7.9	7.8	
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-	566	525	566	583	613	
Conductivity (lab)	µmhos/cm	560	590	-	-	-	-	486	-	-	-	-	-	-	-	-	-	
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrate/Nitrite Nitrogen	mg/L	0.13	0.15	-	-	-	-	0.13	-	-	-	-	0.05	0.05	0.06	0.06	0.06	
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH (Lab)	std. units	7.43	7.41	-	-	-	-	7.41	-	-	-	-	-	-	-	-	-	
pH (field)	std. units	-	-	-	-	-	-	-	-	-	-	-	7.12	7.16	7	6.89	7.08	
Sulfate	mg/L	59	75	-	-	-	-	56.7	-	-	-	-	56	57.2	59.7	69.9	64.8	
Total Organic Carbon (TOC)	mg/L	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Turbidity	NTUs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

MW-44  
Ash Landfill

Parameters	Source: Units	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
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>	<b>NYSCLP</b>
Chloromethane	µg/L	ND	ND	ND	ND	ND	ND	ND
Bromomethane	µg/L	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	µg/L	22000	23000	240	180	170	71	380
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	200	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L	160	ND	ND	ND	ND	4	12
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	4	ND	130	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	37000	51000	20	20	20	13	22
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	170	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	µg/L	ND	ND	ND	ND	ND	0.79	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	880	ND	ND	ND	ND	ND	ND
Chlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	µg/L	130	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	µg/L	-	-	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/L	ND	ND	ND	-	ND	ND	ND
1,2-Dichloroethene (total)	µg/L	73000	13000	560	680	610	360	1100
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	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
Xylene (total)	µg/L	590	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	134130	204000	824	880	930	448.79	1514

MW-44  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES
		Jul 1993 Phase II RI	Nov 1993 Phase II RI	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	June 1998 2
<b>METALS</b>								
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
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	-
<b>MISCELLANEOUS</b>								
Ethene	mg/L	-	-	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	0.172	0.018	0.055	0.0034	0.046
CO2	mg/L	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	0.62	0.14	2.13	0.02	0.28
Sulfide	mg/L	-	-	-	-	-	-	-
DOC	mg C/L	-	-	6.7	6.6	10.1	7.3	7.6
Redox Potential	mV	-	-	191	271	169	400	262
Alkalinity (total)	mg CaCO3/L	-	-	248	228	160	202	220
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-
Chloride	mg/L	-	-	253	328	514	414	422
Conductivity (field)	µmhos/cm	-	-	1770	2080	2790	2700	2690
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	0.01	0.02	0.02	0.09	0.03
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-
pH (field)	std. units	-	-	7.06	6.93	7.11	6.95	7.03
Sulfate	mg/L	-	-	426	546	943	841	749
Total Organic Carbon (TOC)	mg/L	-	-	-	-	3	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-

MW-45  
Ash Landfill

Parameters	Source: Units	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
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
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	0.5	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	0.79	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
1,3-Dichlorobenzene	µg/L	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
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	ND
cis-1,2-Dichloroethene	µg/L	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
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	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
Xylene (total)	µg/L	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

MW-45  
Ash Landfill

Parameters	Source: Units	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	
<b>METALS</b>												
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	ND
Calcium	mg/L	181000	-	-	-	-	-	-	-	-	104000	-
Chromium	mg/L	29.1	-	-	-	-	ND	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	ND
Magnesium	mg/L	22100	-	-	-	-	-	-	-	-	12300	-
Manganese	mg/L	1010	-	-	-	-	24.7	19.6	25	25	ND	11
Mercury	mg/L	0.18	-	-	-	-	-	-	-	-	ND	-
Nickel	mg/L	45.3	-	-	-	-	ND	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	-
<b>MISCELLANEOUS</b>												
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	ND	0.0018
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	ND	0.02	0.27	0.04	0.04	0.03
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	1.7	1.7	2.2	1.7	1.7	2.1
Redox Potential	mV	-	-	-	-	-	234	265	240	423	248	248
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	250	294	336	264	280	280
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	13.3	12.6	12	11.3	10.1	10.1
Conductivity (field)	µmhos/cm	-	-	-	-	-	547	592	617	516	589	589
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.04	0.01	0.03	0.03	0.03	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	28.4
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
		Jul 1993	Nov 1993	Dec 1996	Mar 1997	June 1997	Mar 1998	June 1998
		Phase II RI	Phase II A RI	4	1	2	1	2
VOLATILE ORGANICS		NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP	NYSCLP
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	0.3	0.52
Chloroethane	µg/L	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	µg/L	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	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	47	120	25	22	26	34	35
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	1	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	0.2	0.2
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	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	µg/L	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	120	82	84	65	140	65	3.6
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND
Acetone	µg/L	ND	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
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	167	203	109	87	166	99.5	39



MW-46  
Ash Landfill

Parameters	Source: Units	PES	PES	PES	PES	PES	PES	PES
		Jul 1993	Nov 1993	Dec 1996	Mar 1997	June 1997	Mar 1998	June 1998
		Phase II RI	Phase IIA RI	4	1	2	1	2
<b>METALS</b>								
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	-
<b>MISCELLANEOUS</b>								
Ethane	mg/L	-	-	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	0.0072	0.009	0.045	0.0047	0.0045
CO2	mg/L	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	0.01	0.04	0.3	0.05	0.07
Sulfide	mg/L	-	-	-	-	-	-	-
DOC	mg C/L	-	-	2	1.9	2.6	2.6	3
Redox Potential	mV	-	-	303	254	228	196	128
Alkalinity (total)	mg CaCO3/L	-	-	346	336	332	276	300
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-
Chloride	mg/L	-	-	22	21.3	22.1	31.7	16.2
Conductivity (field)	µmhos/cm	-	-	760	758	720	748	746
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	0.01	0.01	0.02	<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
Sulfate	mg/L	-	-	77.4	79.1	66.8	144	72.7
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-

MW-47  
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	Sept 1996 2	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	June 1998 2
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
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	0.70	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	0.40	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	2	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	0.40	0	2	0	0	0	0.70	0.00

MW-47  
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	Sept 1996 2	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	June 1998 2
<b>METALS</b>												
Aluminum	mg/L	17900	-	-	-	-	-	-	-	-	-	244
Antimony	mg/L	49.6	-	-	-	-	-	-	-	-	-	ND
Arsenic	mg/L	1.7	-	-	-	-	-	-	-	-	-	ND
Barium	mg/L	214	-	-	-	-	-	-	-	-	-	38.4
Beryllium	mg/L	ND	-	-	-	-	-	-	-	-	-	ND
Cadmium	mg/L	ND	-	-	-	-	-	-	-	-	-	ND
Calcium	mg/L	153000	-	-	-	-	-	-	-	-	-	101000
Chromium	mg/L	27.5	-	-	-	-	-	-	-	-	-	5.2
Cobalt	mg/L	11.2	-	-	-	-	-	-	-	-	-	ND
Copper	mg/L	18	-	-	-	-	-	-	-	-	-	6.8
Iron	mg/L	23400	-	-	-	-	-	-	-	-	-	527
Lead	mg/L	8.3	-	-	-	-	-	-	-	-	-	ND
Magnesium	mg/L	18700	-	-	-	-	-	-	-	-	-	11600
Manganese	mg/L	614	-	-	-	-	-	-	-	-	-	14.7
Mercury	mg/L	0.09	-	-	-	-	-	-	-	-	-	ND
Nickel	mg/L	30	-	-	-	-	-	-	-	-	-	ND
Potassium	mg/L	4730	-	-	-	-	-	-	-	-	-	940
Selenium	mg/L	1.5	-	-	-	-	-	-	-	-	-	5.4
Silver	mg/L	ND	-	-	-	-	-	-	-	-	-	3.1
Sodium	mg/L	11000	-	-	-	-	-	-	-	-	-	12800
Thallium	mg/L	ND	-	-	-	-	-	-	-	-	-	ND
Vanadium	mg/L	27.3	-	-	-	-	-	-	-	-	-	5.5
Zinc	mg/L	59.2	-	-	-	-	-	-	-	-	-	4.2
Cyanide	mg/L	4.4	-	-	-	-	-	-	-	-	-	ND
<b>MISCELLANEOUS</b>												
Ethene	mg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.0021	ND	ND	ND	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.03	0.07	0.3	0.04	0
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	1.5	1.7	1.8	1.9	2.3
Redox Potential	mV	-	-	-	-	-	-	325	295	303	318	3.2
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	276	264	288	230	230
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	17.5	17.4	19	18.4	13.1
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	547	604	649	526	618
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	0.57	0.88	0.57	0.49	0.15
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	6.72	6.75	6.86	6.75	6.84
Sulfate	mg/L	-	-	-	-	-	-	44.1	48.7	54.2	49	51.5
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-

MW-48  
Ash Landfill

Parameters	Source: Units	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	Dec 1996 4	Mar 1997 1	June 1997 2	Mar 1998 1	June 1998 2
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
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	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	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
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
cis-1,2-Dichloroethene	µg/L	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
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	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
Xylene (total)	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Volatile Organics	µg/L	0	0	0	0	0	0	0.86	0	0	0

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Ash Landfill

Parameters	Source: Units	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
<b>METALS</b>											
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
<b>MISCELLANEOUS</b>											
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)	µmhos/cm	-	-	-	-	-	547	528	539	389	566
Conductivity (lab)	µmhos/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	-	-	-	-	-	-	-	-	-	-
Nepbelometric 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 Phase II RI	Nov 1993 Phase IIA 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
<b>VOLATILE ORGANICS</b>		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	0.4	0.4	-	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	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	ND	0.2	0.5	0.8	1	2	1	ND	1.6	0.68	1.3
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	0.2	0.5	1.2	1.4	2	1	0	1.6	0.68	1.3

MW-56  
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	Sept 1996 3	Dec 1996 4	Mar 1997 1	June 1997 2	March 1998 1	June 1998 2
<b>METALS</b>												
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	-	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>												
Ethene	mg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.0026	0.014	0.061	ND	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0.01	0.04	0.43	0.13	0.01
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	1.2	1.6	2.1	1.7	1.4
Redox Potential	mV	-	-	-	-	-	-	328	302	232	305	320
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	276	272	316	246	255
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	14	19.1	32	18.4	16.8
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	633	654	1325	584	682
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	0.56	0.45	0.45	1.39	0.66
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	6.71	6.72	6.72	6.73	6.84
Sulfate	mg/L	-	-	-	-	-	-	53.4	73.4	107	61.3	80.3
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celcius	-	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-	-

MW-59  
Ash Landfill

Parameters	Source: Units	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
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
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	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	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
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
cis-1,2-Dichloroethene	µg/L	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
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	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
Xylene (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



MW-59  
Ash Landfill

Parameters	Source: Units	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
<b>METALS</b>											
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	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>											
Ethene	mg/L	-	-	-	-	-	ND	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	ND	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	0.003	0.014	0.061	0.061	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	0	0.01	0.03	0.03	0.03
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	4.4	5.1	5.8	5.8	4.5
Redox Potential	mV	-	-	-	-	-	346	211	270	270	299
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	576	585	640	640	516
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	36.1	30.3	25.2	25.2	23.9
Conductivity (field)	µmhos/cm	-	-	-	-	-	446	1257	1325	1325	2000
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	0.17	0.27	0.01	0.01	0.02
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	6.45	6.47	6.47	6.47	6.47
Sulfate	mg/L	-	-	-	-	-	180	154	131	131	172
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-

MW-60  
Ash Landfill

Parameters	Source: Units	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
<b>VOLATILE ORGANICS</b>		<b>NYSCLP</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>	<b>524.2</b>
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	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	µg/L	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
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
cis-1,2-Dichloroethene	µg/L	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
Trichlorofluoromethane	µg/L	ND	ND	ND	ND	ND	ND	ND	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
Xylene (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

MW-60  
Ash Landfill

Parameters	Source: Units	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
<b>METALS</b>											
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	-	-	-	-	-	-	-	-	-
<b>MISCELLANEOUS</b>											
Ethene	mg/L	-	-	-	-	-	-	ND	ND	ND	ND
Ethane	mg/L	-	-	-	-	-	-	ND	ND	ND	ND
Methane	mg/L	-	-	-	-	-	-	0.0031	0.0012	0.0012	ND
CO2	mg/L	-	-	-	-	-	-	-	-	-	-
Ferrous Iron	mg/L	-	-	-	-	-	-	0	0.02	0.24	0.01
Sulfide	mg/L	-	-	-	-	-	-	-	-	-	-
DOC	mg C/L	-	-	-	-	-	-	1.9	2.5	3.2	1.8
Redox Potential	mV	-	-	-	-	-	-	317	253	239	285
Alkalinity (total)	mg CaCO3/L	-	-	-	-	-	-	310	278	356	220
Total Organic Halogens/Halides (TOX)	mg/L	-	-	-	-	-	-	-	-	-	-
Chloride	mg/L	-	-	-	-	-	-	18.5	23.3	22.6	19.8
Conductivity (field)	µmhos/cm	-	-	-	-	-	-	653	602	762	519
Conductivity (lab)	µmhos/cm	-	-	-	-	-	-	-	-	-	-
Nitrite Nitrogen	mg/L	-	-	-	-	-	-	-	-	-	-
Nitrate/Nitrite Nitrogen	mg/L	-	-	-	-	-	-	0.01	0.02	0.01	0.02
Nitrate as N - Calculation	mg/L	-	-	-	-	-	-	-	-	-	-
pH (Lab)	std. units	-	-	-	-	-	-	-	-	-	-
pH (field)	std. units	-	-	-	-	-	-	6.81	6.71	6.64	4.37
Sulfate	mg/L	-	-	-	-	-	-	40.3	29.7	37.3	29.00
Total Organic Carbon (TOC)	mg/L	-	-	-	-	-	-	-	-	-	-
Temperature (field)	Celsius	-	-	-	-	-	-	-	-	-	-
Nephelometric Turbidity Units	NTUs	-	-	-	-	-	-	-	-	-	-



## APPENDIX C

### Laboratory Analytical Packages with QA/QC Data

1. ITS Sample Delivery Group No. 69582
  - A. Indicator Parameters
  - B. Metals
  - C. Volatile Organics (524.2)
  
2. ITS Sample Delivery Group No. 69597
  - A. Indicator Parameters
  - B. Metals
  - C. Volatile Organics
  
3. Evergreen Analytical
  - A. Methane, Ethane, Ethene

1. **Sample Delivery Group No. 69582**



# Intertek Testing Services

## Environmental Laboratories

### SAMPLE DATA SUMMARY PACKAGE

CONTRACT: 98011

CASE NO: 98011

SDG NO: 69582



# Intertek Testing Services Environmental Laboratories

July 10, 1998

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 69582

Dear Mr. Duchesneau:

Enclosed are the analytical results of samples received by ITS Environmental Laboratories on June 19, and 20, 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: 06/19/98 ETR No: 69582			
359349	AL801	06/16/98	Water
359350	AL170	06/16/98	Water
359351	AL170F	06/16/98	Filtrate
359352	AL171	06/17/98	Water
359353	AL171F	06/17/98	Filtrate
359354	AL172	06/17/98	Water
359355	AL172F	06/17/98	Filtrate
359356	AL173	06/17/98	Water
359357	AL173F	06/17/98	Filtrate
359358	AL174	06/17/98	Water
359359	AL174F	06/17/98	Filtrate

Received: 06/20/98 ETR No: 69592			
359447	AL182	06/19/98	Water
359448	AL182F	06/19/98	Filtrate
359449	AL183	06/19/98	Water
359450	AL183F	06/19/98	Filtrate
359451	AL184	06/19/98	Water
359452	AL184F	06/19/98	Filtrate
359453	AL178	06/19/98	Water
359454	AL178F	06/19/98	Filtrate

Intertek Testing Services NA Inc.  
55 South Park Drive Colchester, VT 05446  
Telephone (802) 655-1203 Fax (802) 655-1248

001



Received: 06/20/98 ETR No: 69592 (Continued)

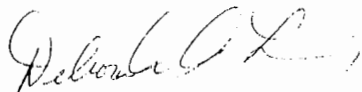
<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
359455	AL175	06/18/98	Water
359456	AL175F	06/18/98	Filtrate
359457	AL176	06/18/98	Water
359457MS	AL176MS	06/18/98	Water
359457MD	AL176MSD	06/18/98	Water
359458	AL176F	06/18/98	Filtrate
359459	AL804	06/18/98	Water
359460	AL177	06/18/98	Water
359461	AL177F	06/18/98	Filtrate
359462	AL803	06/18/98	Water
359463	AL802	06/18/98	Water
359464	AL179	06/18/98	Water
359465	AL180	06/18/98	Water
359466	AL181	06/18/98	Water

The initial volatile organic calibration performed on 26 June 1998 exhibited percent relative standard deviations of several analytes outside method quality control limits. Please note that these analytes were not detected in any samples associated with this sample delivery group.

The volatile organic analysis of the laboratory control sample labeled LMJALCS exhibited percent recoveries of 1,1-dichloroethene, chloroform, 2-hexanone and propionitrile slightly above method quality control (QC) criteria. Please note that these analytes were not reported in any of the field samples. The matrix spike analysis of sample labeled AL176 exhibited percent recoveries of 1,1-dichloroethene slightly above method QC limits.

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

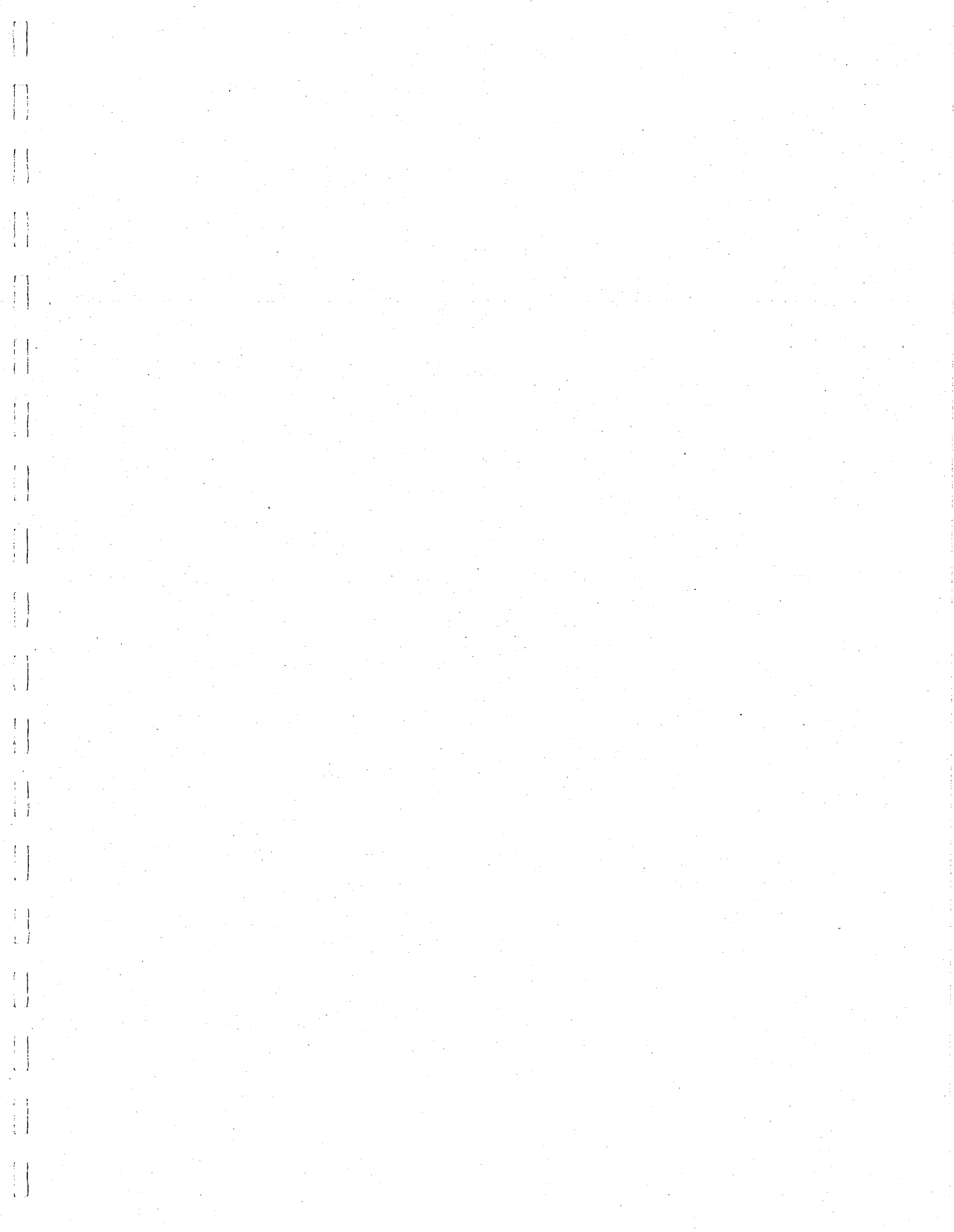
Sincerely,



Deborah A. Loring  
Laboratory Director

DAL/cga  
Enclosure

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**Analytical Report**

Parsons Engineering Science  
 Attn: Accounts Payable  
 30 Dan Road  
 Canton, MA 02021

Date : 06/30/98  
 ETR Number : 69582  
 Project No.: 98011  
 No. Samples: 11  
 Arrived : 06/19/98  
 P.O. Number: 73076930000

Attention : Mike Duchesneau

Page 1

Case:98011 SDG:69582 Job:ASH Qrt.

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
359350	AL170:06/16/98 @1800(Water)	
310.1	Alkalinity (as CaCO3)	330
300.0	Chloride	22.7
300.0	Sulfate	117
353.2	Nitrate/Nitrite Nitrogen	0.16
359351	AL170F:06/16/98 @1800(Filtrate)	
9060	Total Organic Carbon	2.8
359352	AL171:06/17/98 @0930(Water)	
310.1	Alkalinity (as CaCO3)	594
300.0	Chloride	19.6
300.0	Sulfate	133
353.2	Nitrate/Nitrite Nitrogen	0.03
359353	AL171F:06/17/98 @0930(Filtrate)	
9060	Total Organic Carbon	5.1
359354	AL172:06/17/98 @1020(Water)	
310.1	Alkalinity (as CaCO3)	297
300.0	Chloride	13.4
300.0	Sulfate	28.0
353.2	Nitrate/Nitrite Nitrogen	<0.01
359355	AL172F:06/17/98 @1020(Filtrate)	
9060	Total Organic Carbon	2.7
359356	AL173:06/17/98 @1505(Water)	
310.1	Alkalinity (as CaCO3)	307
300.0	Chloride	13.2

< Cont. Next Page >

**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Date : 06/30/98  
ETR Number : 69592  
Project No.: 98011  
No. Samples: 22  
Arrived : 06/20/98  
P.O. Number: 73076930000

Attention : Mike Duchesneau

Page 1

Case:98011 SDG:69582 ASH Quarterly

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
359447	AL182:06/19/98 @1005(Water)	
310.1	Alkalinity (as CaCO3)	252
300.0	Chloride	7.8
300.0	Sulfate	64.8
353.2	Nitrate/Nitrite Nitrogen	0.06
359448	AL182F:06/19/98 @1005(Filtrate)	
9060	Total Organic Carbon	1.5
359449	AL183:06/19/98 @1100(Water)	
310.1	Alkalinity (as CaCO3)	280
300.0	Chloride	5.7
300.0	Sulfate	28.4
353.2	Nitrate/Nitrite Nitrogen	<0.01
359450	AL183F:06/19/98 @1100(Filtrate)	
9060	Total Organic Carbon	3.5
359451	AL184:06/19/98 @1155(Water)	
310.1	Alkalinity (as CaCO3)	280
300.0	Chloride	10.1
300.0	Sulfate	28.4
353.2	Nitrate/Nitrite Nitrogen	<0.01
359452	AL184F:06/19/98 @1155(Filtrate)	
9060	Total Organic Carbon	2.1
359453	AL178:06/19/98 @0910(Water)	
310.1	Alkalinity (as CaCO3)	295
300.0	Chloride	20.2

< Cont. Next Page >



**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Attention : Mike Duchesneau

Date : 06/30/98  
ETR Number : 69592  
Project No.: 98011  
No. Samples: 22  
Arrived : 06/20/98  
P.O. Number: 73076930000

Page 2

Case:98011 SDG:69582 ASH Quarterly

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
359453	AL178:06/19/98 @0910(Water)	
300.0	Sulfate	34.9
353.2	Nitrate/Nitrite Nitrogen	0.16
359454	AL178F:06/19/98 @0910(Filtrate)	
9060	Total Organic Carbon	2.9
359455	AL175:06/18/98 @1110(Water)	
310.1	Alkalinity (as CaCO3)	260
300.0	Chloride	13.1
300.0	Sulfate	51.5
353.2	Nitrate/Nitrite Nitrogen	0.15
359456	AL175F:06/18/98 @1100(Filtrate)	
9060	Total Organic Carbon	2.3
359457	AL176:06/18/98 @1230(Water)	
310.1	Alkalinity (as CaCO3)	300
300.0	Chloride	19.8
300.0	Sulfate	52.6
353.2	Nitrate/Nitrite Nitrogen	1.80
359458	AL176F:06/18/98 @1230(Filtrate)	
9060	Total Organic Carbon	1.2
359460	AL177:06/18/98 @1500(Water)	
310.1	Alkalinity (as CaCO3)	255
300.0	Chloride	16.8
300.0	Sulfate	80.3
353.2	Nitrate/Nitrite Nitrogen	0.66

< Cont. Next Page >



**Analytical Report**

Parsons Engineering Science  
 Attn: Accounts Payable  
 30 Dan Road  
 Canton, MA 02021

Attention : Mike Duchesneau

Date : 06/30/98  
 ETR Number : 69592  
 Project No.: 98011  
 No. Samples: 22  
 Arrived : 06/20/98  
 P.O. Number: 73076930000

Page 3

Case:98011 SDG:69582 ASH Quarterly

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
359461 9060	AL177F:06/18/98 @1500(Filtrate) Total Organic Carbon	1.4

< Last Page >

Submitted By :

Aquatec Inc.



# WET CHEMISTRY

## Quality Control Summary

Project No: 98011  
 SDG No: 69582  
 Units: mg/L

Parameter	Date Analyzed	Method Preparation Blank	Laboratory Control Sample		
			Reported Value	True Value	Percent Recovery
Alkalinity (as CaCO <sub>3</sub> )	06/22/98	< 1	120	118	101.7
Alkalinity (as CaCO <sub>3</sub> )	06/23/98	< 1	122	118	103.4
Chloride by IC	06/23/98	< 0.1	4.74	5.00	94.8
Chloride by IC	06/24/98	< 0.1	4.65	5.00	93.0
Nitrate/Nitrite-Nitrogen	06/24/98	< 0.01	7.24	7.32	98.9
Nitrate/Nitrite-Nitrogen	06/25/98	< 0.01	6.70	7.32	91.5
Sulfate by IC	06/23/98	< 0.1	9.69	10.00	96.9
Sulfate by IC	06/24/98	< 0.1	9.52	10.00	95.2
Total Organic Carbon	06/22/98	< 0.5	67.8	68.0	99.7

Reviewed By:	<i>MKC</i>
Date:	<i>6/30/98</i>



COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_
Lab Code: INCHVT Case No.: 98011 SAS No.: \_\_\_\_\_ SDG No.:69582\_
SOW No.: ILM03.0

Table with 2 columns: EPA Sample No. and Lab Sample ID. Row 1: AL184, 359451. Subsequent rows are empty.

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.

AL184

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69582\_

Matrix (soil/water): WATER Lab Sample ID: 359451

Level (low/med): LOW\_\_\_ Date Received: 06/20/98

% 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	0.72	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	11.0	B		P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.3	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: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69582\_

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	473.90	94.8	100.0	97.01	97.0	97.44	97.4	P
Calcium									NR
Chromium	500.0	488.50	97.7	200.0	196.40	98.2	197.10	98.6	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	976.60	97.7	400.0	390.60	97.6	390.30	97.6	-
Magnesium									NR
Manganese	500.0	485.70	97.1	200.0	194.80	97.4	194.70	97.4	P
Mercury									NR
Nickel	500.0	486.00	97.2	200.0	195.30	97.6	196.30	98.2	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

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69582\_

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	98.92	98.9			P
Calcium									NR
Chromium				200.0	199.80	99.9			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				400.0	395.30	98.8			P
Magnesium									NR
Manganese				200.0	197.50	98.8			P
Mercury									NR
Nickel				200.0	198.40	99.2			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

U.S. EPA - CLP

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT

Case No.: 98011\_

SAS No.: \_\_\_\_\_

SDG No.: 69582\_

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	9.97	99.7	9.76	97.6
Calcium								
Chromium				20.0	22.51	112.6	22.70	113.5
Cobalt								
Copper								
Iron								
Lead				6.0	7.12	118.7	5.61	93.5
Magnesium								
Manganese				30.0	28.25	94.2	28.34	94.5
Mercury								
Nickel				80.0	78.10	97.6	79.30	99.1
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

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3  
BLANKS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_  
 Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69582\_  
 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	0.3	U	0.3	U	0.3	U	0.3	U	0.300	U	P
Calcium											NR
Chromium	0.9	U	0.9	U	0.9	U	0.9	U	0.900	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.8	U	1.8	U	1.8	U	1.8	U	1.800	U	P
Magnesium											NR
Manganese	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	P
Mercury											NR
Nickel	1.3	U	1.3	U	1.3	U	1.3	U	1.300	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: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No: \_\_\_\_\_ SDG No.: 69582\_

ICP ID Number: ICP4 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	800	4	871.9	109.0	4	899.7	112.5
Calcium								
Chromium	0	422	3	458.6	108.7	3	475.1	112.6
Cobalt								
Copper								
Iron								
Lead	0	48	-1	47.9	99.8	-1	50.4	105.0
Magnesium								
Manganese	0	416	0	455.0	109.4	-1	469.3	112.8
Mercury								
Nickel	0	800	2	866.3	108.3	1	896.5	112.1
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

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7

LABORATORY CONTROL SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69582\_

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	490.00	93.3					
Calcium								
Chromium	500.0	493.60	98.7					
Cobalt								
Copper								
Iron								
Lead	1015.0	990.30	97.6					
Magnesium								
Manganese	500.0	490.00	98.0					
Mercury								
Nickel	500.0	495.00	99.0					
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								



U.S. EPA - CLP

9  
ICP SERIAL DILUTION

EPA SAMPLE NO.

AL184L

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69582\_

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	0.72	B	1.50	U	100.0		P
Calcium							NR
Chromium	0.90	U	4.50	U			P
Cobalt							NR
Copper							NR
Iron							NR
Lead	1.80	U	9.00	U			P
Magnesium							NR
Manganese	10.98	B	11.25	B	2.5		P
Mercury							NR
Nickel	1.30	U	6.50	U			P
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

Instrument Detection Limits (Quarterly)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69582\_

ICP ID Number: ICP4\_TJA\_61E Date: 04/16/98

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	0.3	P
Calcium			5000		NR
Chromium	267.72		10	0.9	P
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	220.35		3	1.8	P
Magnesium			5000		NR
Manganese	257.61		15	0.2	P
Mercury			0.2		NR
Nickel	231.60		40	1.3	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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U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL \_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69582\_

ICP ID Number: ICP4 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	CO_
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	-0.0000240	0.0000000	0.0000130	0.0000000	-0.0002300
Arsenic	189.04	0.0000070	0.0000000	-0.0000480	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000050	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001040	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	-0.0002360	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000070	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0834000
Lead	220.35	0.0006000	0.0000000	0.0000850	0.0000070	-0.0110300
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000190	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0014900
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000140	0.0000000	-0.0001500	0.0000000	0.0003870
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	-0.0000300	0.0000000	-0.0000430	0.0000000	0.0038460
Vanadium	292.40	0.0000000	0.0000000	0.0000240	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69582\_

ICP ID Number: ICP4 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CR_	MN_	NI_	PB_	V_
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.2032000
Antimony	206.84	0.0099100	0.0000000	-0.0006110	0.0000000	-0.0103400
Arsenic	189.04	0.0002760	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0003650	0.0000000	0.0000000	0.0005910
Cadmium	226.50	0.0000000	0.0000000	-0.0000410	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0001250	0.0000000	0.0000000	-0.0000960
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	-0.0003000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0002550	0.0000000	0.0002270	0.0000000	0.0000860
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001300	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0001870	0.0000000	0.0000000	0.0001330
Silver	328.07	0.0000000	0.0000670	0.0000000	0.0000000	-0.0000970
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0003410	-0.0089400	0.0000000	0.0000320	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69582\_

ICP ID Number: ICP4 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :			
		ZN_	_____	_____	_____
Aluminum	308.22	0.0000000			
Antimony	206.84	-0.0001690			
Arsenic	189.04	0.0000000			
Barium	493.41	0.0000000			
Beryllium	313.04	0.0000000			
Cadmium	226.50	0.0000000			
Calcium	317.93	0.0000000			
Chromium	267.72	0.0000000			
Cobalt	228.62	0.0000000			
Copper	324.75	0.0000000			
Iron	271.44	0.0000000			
Lead	220.35	0.0000000			
Magnesium	279.08	0.0000000			
Manganese	257.61	0.0000000			
Mercury					
Nickel	231.60	0.0000000			
Potassium	766.49	0.0000000			
Selenium	196.03	0.0000000			
Silver	328.07	0.0000000			
Sodium	330.23	0.0000000			
Thallium	190.86	0.0000000			
Vanadium	292.40	0.0000000			
Zinc	213.86	0.0000000			

Comments:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



U.S. EPA - CLP

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69582\_

ICP ID Number: ICP4 TJA 61E Date: 04/16/98

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	10000.0	P
Beryllium	10.00	5000.0	P
Cadmium	10.00	5000.0	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	10000.0	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	3000.0	P

Comments:

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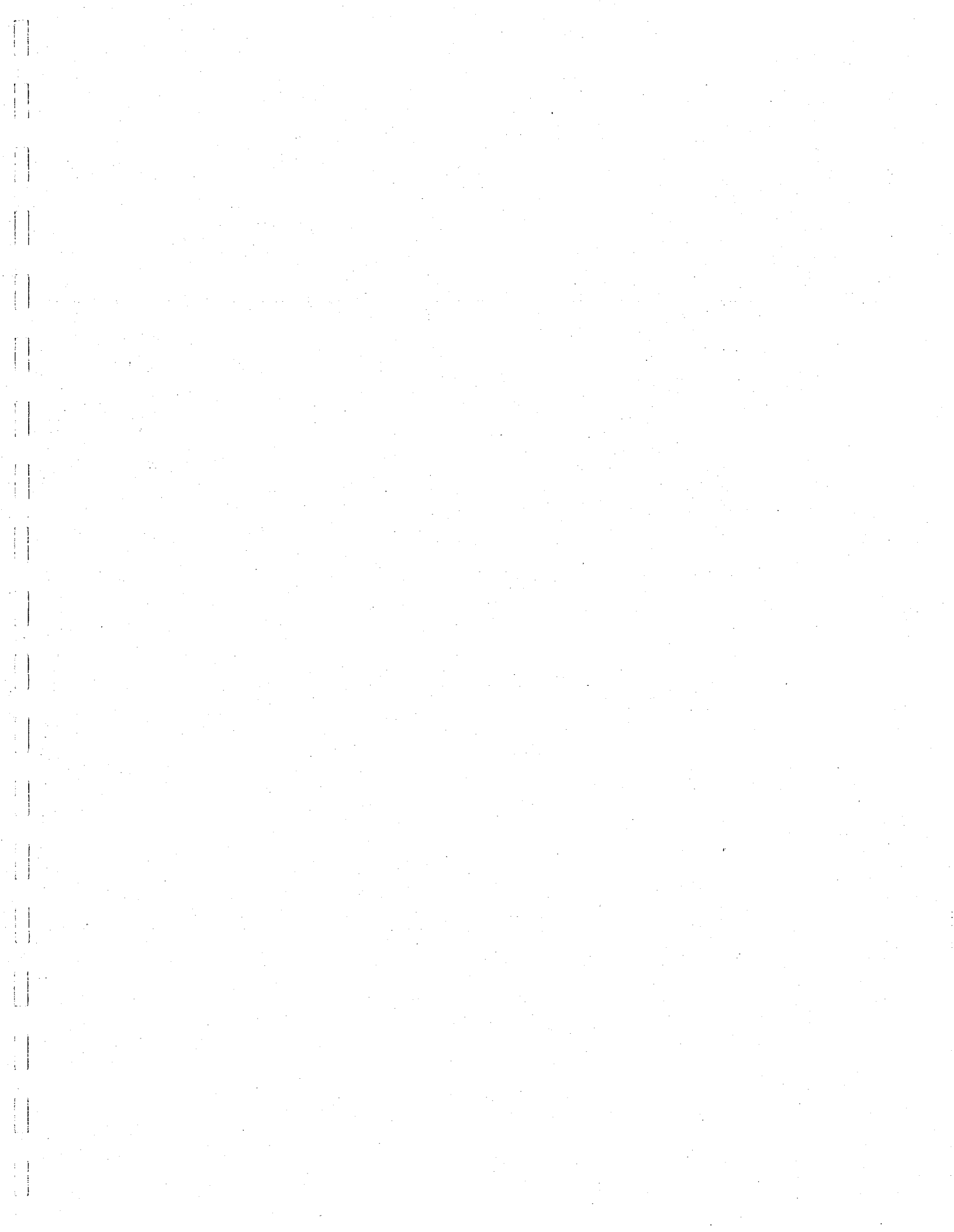


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FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL801

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359349

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

Lab File ID: L359349V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1	Acetone	1.9	J
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL801

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359349

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

Lab File ID: L359349V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4-----	Tetrachloroethene	0.50	U
109-99-9-----	Tetrahydrofuran	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-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	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
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	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
107-13-1-----	Acrylonitrile	1.0	U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL801

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359349

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

Lab File ID: L359349V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
50-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL801

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359349

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

Lab File ID: L359349V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
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 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL170

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359350

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

Lab File ID: L359350V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1	Acetone	2.6	
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL170

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359350

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

Lab File ID: L359350V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4-----	Tetrachloroethene	0.50	U
109-99-9-----	Tetrahydrofuran	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-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	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
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	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
107-13-1-----	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL170

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359350

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

Lab File ID: L359350V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL170

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359350

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

Lab File ID: L359350V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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. 75-45-6	METHANE, CHLORODIFLUORO-	1.98	85	NJ
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FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL171

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359352

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

Lab File ID: L359352V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1	Acetone	2.9	
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL171

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359352

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

Lab File ID: L359352V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4	Tetrachloroethene	0.50	U
109-99-9	Tetrahydrofuran	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	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	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
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	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
107-13-1	Acrylonitrile	1.0	U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL171

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359352

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

Lab File ID: L359352V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
50-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL171

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359352

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

Lab File ID: L359352V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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.

AL172

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359354

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

Lab File ID: L359354V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1-----	Acetone	3.1	
75-35-4-----	1,1-Dichloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
75-15-0-----	Carbon Disulfide	1.0	U
75-09-2-----	Methylene Chloride	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	1.0	U
75-34-3-----	1,1-Dichloroethane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	2.5	U
590-20-7-----	2,2-Dichloropropane	0.50	U
67-66-3-----	Chloroform	0.50	U
74-97-5-----	Bromochloromethane	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
71-43-2-----	Benzene	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	2.5	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	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
591-78-6-----	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL172

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359354

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

Lab File ID: L359354V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4-----	Tetrachloroethene	0.50	U
109-99-9-----	Tetrahydrofuran	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-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	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
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	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
107-13-1-----	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL172

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359354

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

Lab File ID: L359354V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL172

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359354

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

Lab File ID: L359354V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	12.59	0.99	NJ
2.	UNKNOWN SILOXANE DERIVATIVE	21.42	0.82	J
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FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL173

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359356

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

Lab File ID: L359356V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1-----	Acetone	2.3	J
75-35-4-----	1,1-Dichloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
75-15-0-----	Carbon Disulfide	1.0	U
75-09-2-----	Methylene Chloride	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	1.0	U
75-34-3-----	1,1-Dichloroethane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	2.5	U
590-20-7-----	2,2-Dichloropropane	0.50	U
67-66-3-----	Chloroform	0.50	U
74-97-5-----	Bromochloromethane	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
71-43-2-----	Benzene	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	2.5	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	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
591-78-6-----	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL173

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359356

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

Lab File ID: L359356V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4	Tetrachloroethene	0.50	U
109-99-9	Tetrahydrofuran	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	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	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
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	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
107-13-1	Acrylonitrile	1.0	U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL173

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359356

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

Lab File ID: L359356V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
107-05-1	-----Allyl Chloride	1.0	U
109-69-3	-----1-Chlorobutane	1.0	U
110-57-6	-----trans-1,4-Dichloro-2-butene	1.0	U
513-88-2	-----1,1-Dichloropropanone	1.0	U
50-29-7	-----Diethyl Ether	1.0	U
97-63-2	-----Ethyl Methacrylate	1.0	U
67-72-1	-----Hexachloroethane	1.0	U
126-98-7	-----Methacrylonitrile	1.0	U
96-33-3	-----Methyl Acrylate	1.0	U
74-88-4	-----Methyl Iodide	1.0	U
80-62-6	-----Methyl Methacrylate	1.0	U
76-01-7	-----Pentachloroethane	1.0	U
107-12-0	-----Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL173

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359356

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

Lab File ID: L359356V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTTRISILOXANE, HEXAMETHYL	12.59	0.81	NJ
2.	UNKNOWN SILOXANE DERIVATIVE	21.42	0.82	J
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FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL174

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359358

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

Lab File ID: L359358V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1	Acetone	2.5	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.52	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL174

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359358

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

Lab File ID: L359358V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4	Tetrachloroethene	0.50	U
109-99-9	Tetrahydrofuran	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	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	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
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	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
107-13-1	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL174

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359358

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

Lab File ID: L359358V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL174

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359358

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

Lab File ID: L359358V

Level: (low/med) LOW

Date Received: 06/19/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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.

AL182

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359447

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

Lab File ID: L359447V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1-----	Acetone	2.3	J
75-35-4-----	1,1-Dichloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
75-15-0-----	Carbon Disulfide	1.0	U
75-09-2-----	Methylene Chloride	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	1.0	U
75-34-3-----	1,1-Dichloroethane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	2.5	U
590-20-7-----	2,2-Dichloropropane	0.50	U
67-66-3-----	Chloroform	0.50	U
74-97-5-----	Bromochloromethane	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
71-43-2-----	Benzene	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	2.5	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	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
591-78-6-----	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL182

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359447

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

Lab File ID: L359447V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4	Tetrachloroethene	0.50	U
109-99-9	Tetrahydrofuran	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	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	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
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	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
107-13-1	Acrylonitrile	1.0	U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL182

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359447

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

Lab File ID: L359447V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
50-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL182

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359447

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

Lab File ID: L359447V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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.

AL183

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359449

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

Lab File ID: L359449V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1-----	Acetone	2.5	
75-35-4-----	1,1-Dichloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
75-15-0-----	Carbon Disulfide	1.0	U
75-09-2-----	Methylene Chloride	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	1.0	U
75-34-3-----	1,1-Dichloroethane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	2.5	U
590-20-7-----	2,2-Dichloropropane	0.50	U
67-66-3-----	Chloroform	0.50	U
74-97-5-----	Bromochloromethane	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
71-43-2-----	Benzene	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	2.5	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	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
591-78-6-----	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL183

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359449

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

Lab File ID: L359449V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4	Tetrachloroethene	0.50	U
109-99-9	Tetrahydrofuran	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	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	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
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	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
107-13-1	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL183

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359449

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

Lab File ID: L359449V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
107-05-1	Allyl Chloride	1.0	U
109-69-3	1-Chlorobutane	1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2	1,1-Dichloropropanone	1.0	U
60-29-7	Diethyl Ether	1.0	U
97-63-2	Ethyl Methacrylate	1.0	U
67-72-1	Hexachloroethane	1.0	U
126-98-7	Methacrylonitrile	1.0	U
96-33-3	Methyl Acrylate	1.0	U
74-88-4	Methyl Iodide	1.0	U
80-62-6	Methyl Methacrylate	1.0	U
76-01-7	Pentachloroethane	1.0	U
107-12-0	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL183

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359449

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

Lab File ID: L359449V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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.

AL184

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359451

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

Lab File ID: L359451V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1-----	Acetone	2.5	
75-35-4-----	1,1-Dichloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
75-15-0-----	Carbon Disulfide	1.0	U
75-09-2-----	Methylene Chloride	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	1.0	U
75-34-3-----	1,1-Dichloroethane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	2.5	U
590-20-7-----	2,2-Dichloropropane	0.50	U
67-66-3-----	Chloroform	0.50	U
74-97-5-----	Bromochloromethane	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
71-43-2-----	Benzene	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	2.5	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	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
591-78-6-----	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL184

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359451

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

Lab File ID: L359451V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4-----	Tetrachloroethene	0.50	U
109-99-9-----	Tetrahydrofuran	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-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	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
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	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
107-13-1-----	Acrylonitrile	1.0	U





FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL184

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359451

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

Lab File ID: L359451V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (L)

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.

AL178

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359453

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

Lab File ID: L359453V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1	Acetone	2.6	
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL178

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359453

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

Lab File ID: L359453V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4	Tetrachloroethene	0.50	U
109-99-9	Tetrahydrofuran	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	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	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
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	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
107-13-1	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL178

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359453

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

Lab File ID: L359453V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL178

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359453

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

Lab File ID: L359453V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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.

AL175

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359455

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

Lab File ID: L359455V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1	Acetone	2.3	J
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL175

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359455

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

Lab File ID: L359455V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
109-99-9	Tetrahydrofuran	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	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	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
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	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
107-13-1	Acrylonitrile	1.0	U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL175

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359455

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

Lab File ID: L359455V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL175

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359455

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

Lab File ID: L359455V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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.

AL176

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359457

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

Lab File ID: L359457V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1	Acetone	1.5	J
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL176

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359457

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

Lab File ID: L359457V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4-----	Tetrachloroethene	0.50	U
109-99-9-----	Tetrahydrofuran	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-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	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
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	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
107-13-1-----	Acrylonitrile	1.0	U



U.S. EPA - CLP

9  
ICP SERIAL DILUTION

EPA SAMPLE NO.

AL187L

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

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	0.30	U	1.50	U			P
Calcium							NR
Chromium	0.90	U	4.50	U			P
Cobalt							NR
Copper							NR
Iron							NR
Lead	1.80	U	9.00	U			P
Magnesium							NR
Manganese	1380.00		1444.00		4.6		P
Mercury							NR
Nickel	1.30	U	6.50	U			P
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL176

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359457

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

Lab File ID: L359457V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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.

AL804

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359459

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

Lab File ID: L359459V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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
67-64-1	Acetone	1.6	J
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL804

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359459

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

Lab File ID: L359459V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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
142-28-9-----	1,3-Dichloropropane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
109-99-9-----	Tetrahydrofuran	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-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	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
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	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
107-13-1-----	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL804

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 69582  
 Matrix: (soil/water) WATER Lab Sample ID: 359459  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L359459V  
 Level: (low/med) LOW Date Received: 06/20/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/98  
 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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL804

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359459

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

Lab File ID: L359459V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

ENGSC2 SAMPLE NO.

AL177

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359460

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

Lab File ID: L359460V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

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
67-64-1	Acetone	2.3	J
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.3	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL177

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359460

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

Lab File ID: L359460V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

142-28-9-----	1,3-Dichloropropane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
109-99-9-----	Tetrahydrofuran	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-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	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
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	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
107-13-1-----	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL177

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359460

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

Lab File ID: L359460V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL177

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359460

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

Lab File ID: L359460V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	12.57	1.0	NJ
2.				
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FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL803

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359462

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

Lab File ID: L359462V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

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
67-64-1	Acetone	5.6	
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL803

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359462

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

Lab File ID: L359462V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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
142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
109-99-9	Tetrahydrofuran	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	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	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
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	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
107-13-1	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL803

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 69582  
 Matrix: (soil/water) WATER Lab Sample ID: 359462  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L359462V  
 Level: (low/med) LOW Date Received: 06/20/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/98  
 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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL803

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359462

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

Lab File ID: L359462V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	12.57	0.85	NJ
2.				
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FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL802

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359463

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

Lab File ID: L359463V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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
67-64-1-----	Acetone	3.2	
75-35-4-----	1,1-Dichloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
75-15-0-----	Carbon Disulfide	1.0	U
75-09-2-----	Methylene Chloride	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	1.0	U
75-34-3-----	1,1-Dichloroethane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	2.5	U
590-20-7-----	2,2-Dichloropropane	0.50	U
67-66-3-----	Chloroform	0.50	U
74-97-5-----	Bromochloromethane	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
71-43-2-----	Benzene	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	2.5	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	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
591-78-6-----	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL802

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359463

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

Lab File ID: L359463V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
109-99-9	Tetrahydrofuran	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	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	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
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	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
107-13-1	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL802

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359463

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

Lab File ID: L359463V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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
107-05-1	-----Allyl Chloride	1.0	U	
109-69-3	-----1-Chlorobutane	1.0	U	
110-57-6	-----trans-1,4-Dichloro-2-butene	1.0	U	
513-88-2	-----1,1-Dichloropropanone	1.0	U	
60-29-7	-----Diethyl Ether	1.0	U	
97-63-2	-----Ethyl Methacrylate	1.0	U	
67-72-1	-----Hexachloroethane	1.0	U	
126-98-7	-----Methacrylonitrile	1.0	U	
96-33-3	-----Methyl Acrylate	1.0	U	
74-88-4	-----Methyl Iodide	1.0	U	
80-62-6	-----Methyl Methacrylate	1.0	U	
76-01-7	-----Pentachloroethane	1.0	U	
107-12-0	-----Propionitrile	1.0	U	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL802

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359463

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

Lab File ID: L359463V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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
1.				
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FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL179

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359464

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

Lab File ID: L359464V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

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
67-64-1	Acetone	3.2	
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL179

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359464

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

Lab File ID: L359464V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

142-28-9-----	1,3-Dichloropropane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
109-99-9-----	Tetrahydrofuran	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-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	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
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	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
107-13-1-----	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL179

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 69582  
 Matrix: (soil/water) WATER Lab Sample ID: 359464  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L359464V  
 Level: (low/med) LOW Date Received: 06/20/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/98  
 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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL179

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359464

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

Lab File ID: L359464V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

ENGSC2 SAMPLE NO.

AL180

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359465

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

Lab File ID: L359465V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

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
67-64-1	Acetone	3.0	
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL180

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359465

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

Lab File ID: L359465V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

142-28-9	1,3-Dichloropropane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
109-99-9	Tetrahydrofuran	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	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	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
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	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
107-13-1	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL180

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359465

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

Lab File ID: L359465V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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
---------	----------	--	---

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U





FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL181

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 69582  
 Matrix: (soil/water) WATER Lab Sample ID: 359466  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L359466V  
 Level: (low/med) LOW Date Received: 06/20/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/98  
 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
67-64-1	Acetone	2.7	
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL181

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359466

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

Lab File ID: L359466V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

142-28-9-----	1,3-Dichloropropane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
109-99-9-----	Tetrahydrofuran	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-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	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
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	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
107-13-1-----	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL181

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359466

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

Lab File ID: L359466V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

ENGSC2 SAMPLE NO.

AL181

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359466

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

Lab File ID: L359466V

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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
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 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL176MS

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359457MS

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

Lab File ID: L359457MSV

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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	8.6	
74-87-3-----	Chloromethane	8.9	
75-01-4-----	Vinyl Chloride	10	
74-83-9-----	Bromomethane	11	
75-00-3-----	Chloroethane	11	
75-69-4-----	Trichlorofluoromethane	9.4	
67-64-1-----	Acetone	47	
75-35-4-----	1,1-Dichloroethene	15	
156-60-5-----	trans-1,2-Dichloroethene	10	
75-15-0-----	Carbon Disulfide	17	
75-09-2-----	Methylene Chloride	10	
1634-04-4-----	Methyl-t-Butyl Ether	19	
75-34-3-----	1,1-Dichloroethane	11	
156-59-2-----	cis-1,2-Dichloroethene	11	
78-93-3-----	2-Butanone	60	
590-20-7-----	2,2-Dichloropropane	10	
67-66-3-----	Chloroform	9.4	
74-97-5-----	Bromochloromethane	9.7	
71-55-6-----	1,1,1-Trichloroethane	10	
563-58-6-----	1,1-Dichloropropene	10	
56-23-5-----	Carbon Tetrachloride	11	
107-06-2-----	1,2-Dichloroethane	10	
71-43-2-----	Benzene	10	
79-01-6-----	Trichloroethene	9.9	
78-87-5-----	1,2-Dichloropropane	10	
75-27-4-----	Bromodichloromethane	9.8	
74-95-3-----	Dibromomethane	9.8	
108-10-1-----	4-Methyl-2-Pentanone	53	
10061-01-5-----	cis-1,3-Dichloropropene	10	
108-88-3-----	Toluene	10	
10061-02-6-----	trans-1,3-Dichloropropene	10	
79-00-5-----	1,1,2-Trichloroethane	9.7	
591-78-6-----	2-Hexanone	60	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL176MS

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359457MS

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

Lab File ID: L359457MSV

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

142-28-9-----	1,3-Dichloropropane	10	
127-18-4-----	Tetrachloroethene	8.3	
109-99-9-----	Tetrahydrofuran	51	
124-48-1-----	Dibromochloromethane	9.7	
106-93-4-----	1,2-Dibromoethane	9.6	
108-90-7-----	Chlorobenzene	9.4	
630-20-6-----	1,1,1,2-Tetrachloroethane	9.6	
100-41-4-----	Ethylbenzene	9.2	
1330-20-7-----	Xylene (total)	28	
100-42-5-----	Styrene	8.0	
75-25-2-----	Bromoform	9.7	
98-82-8-----	Isopropylbenzene	9.7	
79-34-5-----	1,1,2,2-Tetrachloroethane	9.9	
96-18-4-----	1,2,3-Trichloropropane	9.3	
108-86-1-----	Bromobenzene	9.6	
103-65-1-----	n-Propylbenzene	9.3	
95-49-8-----	2-Chlorotoluene	9.8	
108-67-8-----	1,3,5-Trimethylbenzene	9.1	
106-43-4-----	4-Chlorotoluene	9.6	
98-06-6-----	tert-Butylbenzene	10	
95-63-6-----	1,2,4-Trimethylbenzene	9.0	
135-98-8-----	sec-Butylbenzene	10	
99-87-6-----	p-Isopropyltoluene	10	
541-73-1-----	1,3-Dichlorobenzene	9.7	
106-46-7-----	1,4-Dichlorobenzene	9.7	
104-51-8-----	n-Butylbenzene	10	
95-50-1-----	1,2-Dichlorobenzene	9.6	
96-12-8-----	1,2-Dibromo-3-Chloropropane	9.2	
120-82-1-----	1,2,4-Trichlorobenzene	10	
87-68-3-----	Hexachlorobutadiene	9.8	
91-20-3-----	Naphthalene	9.6	
87-61-6-----	1,2,3-Trichlorobenzene	9.9	
107-13-1-----	Acrylonitrile	18	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL176MS

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359457MS

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

Lab File ID: L359457MSV

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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
107-05-1-----	Allyl Chloride	18	_____
109-69-3-----	1-Chlorobutane	19	_____
110-57-6-----	trans-1,4-Dichloro-2-butene	24	_____
513-88-2-----	1,1-Dichloropropanone	22	_____
60-29-7-----	Diethyl Ether	18	_____
97-63-2-----	Ethyl Methacrylate	21	_____
67-72-1-----	Hexachloroethane	24	_____
126-98-7-----	Methacrylonitrile	21	_____
96-33-3-----	Methyl Acrylate	22	_____
74-88-4-----	Methyl Iodide	19	_____
80-62-6-----	Methyl Methacrylate	20	_____
76-01-7-----	Pentachloroethane	24	_____
107-12-0-----	Propionitrile	26	_____

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL176MSD

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359457MD

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

Lab File ID: L359457MDV

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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	8.2
74-87-3	Chloromethane	8.3
75-01-4	Vinyl Chloride	10
74-83-9	Bromomethane	11
75-00-3	Chloroethane	10
75-69-4	Trichlorofluoromethane	8.9
67-64-1	Acetone	44
75-35-4	1,1-Dichloroethene	14
156-60-5	trans-1,2-Dichloroethene	9.8
75-15-0	Carbon Disulfide	16
75-09-2	Methylene Chloride	9.7
1634-04-4	Methyl-t-Butyl Ether	18
75-34-3	1,1-Dichloroethane	10
156-59-2	cis-1,2-Dichloroethene	10
78-93-3	2-Butanone	54
590-20-7	2,2-Dichloropropane	9.6
67-66-3	Chloroform	9.1
74-97-5	Bromochloromethane	9.3
71-55-6	1,1,1-Trichloroethane	9.6
563-58-6	1,1-Dichloropropene	9.8
56-23-5	Carbon Tetrachloride	10
107-06-2	1,2-Dichloroethane	9.6
71-43-2	Benzene	9.7
79-01-6	Trichloroethene	9.3
78-87-5	1,2-Dichloropropane	9.7
75-27-4	Bromodichloromethane	9.2
74-95-3	Dibromomethane	9.3
108-10-1	4-Methyl-2-Pentanone	49
10061-01-5	cis-1,3-Dichloropropene	9.4
108-88-3	Toluene	9.4
10061-02-6	trans-1,3-Dichloropropene	9.7
79-00-5	1,1,2-Trichloroethane	9.2
591-78-6	2-Hexanone	55



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL176MSD

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 69582  
 Matrix: (soil/water) WATER Lab Sample ID: 359457MD  
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: L359457MDV  
 Level: (low/med) LOW Date Received: 06/20/98  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 06/27/98  
 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
142-28-9	1,3-Dichloropropane	9.6	
127-18-4	Tetrachloroethene	8.0	
109-99-9	Tetrahydrofuran	45	
124-48-1	Dibromochloromethane	9.3	
106-93-4	1,2-Dibromoethane	9.3	
108-90-7	Chlorobenzene	9.1	
630-20-6	1,1,1,2-Tetrachloroethane	9.2	
100-41-4	Ethylbenzene	8.9	
1330-20-7	Xylene (total)	28	
100-42-5	Styrene	9.2	
75-25-2	Bromoform	9.0	
98-82-8	Isopropylbenzene	9.4	
79-34-5	1,1,2,2-Tetrachloroethane	9.5	
96-18-4	1,2,3-Trichloropropane	9.2	
108-86-1	Bromobenzene	9.3	
103-65-1	n-Propylbenzene	9.4	
95-49-8	2-Chlorotoluene	9.3	
108-67-8	1,3,5-Trimethylbenzene	9.3	
106-43-4	4-Chlorotoluene	9.4	
98-06-6	tert-Butylbenzene	10	
95-63-6	1,2,4-Trimethylbenzene	9.4	
135-98-8	sec-Butylbenzene	10	
99-87-6	p-Isopropyltoluene	10	
541-73-1	1,3-Dichlorobenzene	9.4	
106-46-7	1,4-Dichlorobenzene	9.3	
104-51-8	n-Butylbenzene	10	
95-50-1	1,2-Dichlorobenzene	9.2	
96-12-8	1,2-Dibromo-3-Chloropropane	9.2	
120-82-1	1,2,4-Trichlorobenzene	10	
87-68-3	Hexachlorobutadiene	9.6	
91-20-3	Naphthalene	9.6	
87-61-6	1,2,3-Trichlorobenzene	10	
107-13-1	Acrylonitrile	17	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

AL176MSD

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: 359457MD

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

Lab File ID: L359457MDV

Level: (low/med) LOW

Date Received: 06/20/98

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

107-05-1-----	Allyl Chloride	17	
109-69-3-----	1-Chlorobutane	18	
110-57-6-----	trans-1,4-Dichloro-2-butene	22	
513-88-2-----	1,1-Dichloropropanone	21	
60-29-7-----	Diethyl Ether	17	
97-63-2-----	Ethyl Methacrylate	19	
67-72-1-----	Hexachloroethane	22	
126-98-7-----	Methacrylonitrile	19	
96-33-3-----	Methyl Acrylate	21	
74-88-4-----	Methyl Iodide	18	
80-62-6-----	Methyl Methacrylate	20	
76-01-7-----	Pentachloroethane	22	
107-12-0-----	Propionitrile	26	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LMJA LCS

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: LMJA LCS

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

Lab File ID: LMJ001A2QV

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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	0.88	
74-87-3-----	Chloromethane	0.91	
75-01-4-----	Vinyl Chloride	1.0	
74-83-9-----	Bromomethane	1.2	
75-00-3-----	Chloroethane	1.1	
75-69-4-----	Trichlorofluoromethane	0.92	
67-64-1-----	Acetone	4.7	
75-35-4-----	1,1-Dichloroethene	1.5	
156-60-5-----	trans-1,2-Dichloroethene	1.0	
75-15-0-----	Carbon Disulfide	1.8	
75-09-2-----	Methylene Chloride	1.2	
1634-04-4-----	Methyl-t-Butyl Ether	2.0	
75-34-3-----	1,1-Dichloroethane	1.1	
156-59-2-----	cis-1,2-Dichloroethene	1.1	
78-93-3-----	2-Butanone	4.8	
590-20-7-----	2,2-Dichloropropane	1.2	
67-66-3-----	Chloroform	1.4	
74-97-5-----	Bromochloromethane	0.99	
71-55-6-----	1,1,1-Trichloroethane	1.0	
563-58-6-----	1,1-Dichloropropene	1.0	
56-23-5-----	Carbon Tetrachloride	1.0	
107-06-2-----	1,2-Dichloroethane	1.0	
71-43-2-----	Benzene	1.2	
79-01-6-----	Trichloroethene	0.95	
78-87-5-----	1,2-Dichloropropane	1.0	
75-27-4-----	Bromodichloromethane	0.94	
74-95-3-----	Dibromomethane	0.97	
108-10-1-----	4-Methyl-2-Pentanone	5.0	
10061-01-5-----	cis-1,3-Dichloropropene	0.94	
108-88-3-----	Toluene	0.99	
10061-02-6-----	trans-1,3-Dichloropropene	0.91	
79-00-5-----	1,1,2-Trichloroethane	0.96	
591-78-6-----	2-Hexanone	6.8	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LMJA LCS

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: LMJA LCS

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

Lab File ID: LMJ001A2QV

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

142-28-9	1,3-Dichloropropane	0.98	
127-18-4	Tetrachloroethene	0.88	
109-99-9	Tetrahydrofuran	4.6	
124-48-1	Dibromochloromethane	0.86	
106-93-4	1,2-Dibromoethane	0.90	
108-90-7	Chlorobenzene	0.97	
630-20-6	1,1,1,2-Tetrachloroethane	0.92	
100-41-4	Ethylbenzene	0.98	
1330-20-7	Xylene (total)	3.0	
100-42-5	Styrene	0.94	
75-25-2	Bromoform	0.82	
98-82-8	Isopropylbenzene	0.96	
79-34-5	1,1,2,2-Tetrachloroethane	0.94	
96-18-4	1,2,3-Trichloropropane	1.1	
108-86-1	Bromobenzene	0.88	
103-65-1	n-Propylbenzene	0.93	
95-49-8	2-Chlorotoluene	0.98	
108-67-8	1,3,5-Trimethylbenzene	0.96	
106-43-4	4-Chlorotoluene	0.96	
98-06-6	tert-Butylbenzene	1.1	
95-63-6	1,2,4-Trimethylbenzene	0.99	
135-98-8	sec-Butylbenzene	1.1	
99-87-6	p-Isopropyltoluene	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	
106-46-7	1,4-Dichlorobenzene	0.96	
104-51-8	n-Butylbenzene	1.1	
95-50-1	1,2-Dichlorobenzene	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	0.97	
120-82-1	1,2,4-Trichlorobenzene	1.1	
87-68-3	Hexachlorobutadiene	1.0	
91-20-3	Naphthalene	0.97	
87-61-6	1,2,3-Trichlorobenzene	1.1	
107-13-1	Acrylonitrile	2.1	

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LMJA LCS

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: LMJA LCS

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

Lab File ID: LMJ001A2QV

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/27/98

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

107-05-1-----	Allyl Chloride	1.8	_____
109-69-3-----	1-Chlorobutane	2.0	_____
110-57-6-----	trans-1,4-Dichloro-2-butene	1.9	_____
513-88-2-----	1,1-Dichloropropanone	2.1	_____
60-29-7-----	Diethyl Ether	1.8	_____
97-63-2-----	Ethyl Methacrylate	1.9	_____
67-72-1-----	Hexachloroethane	2.3	_____
126-98-7-----	Methacrylonitrile	1.8	_____
96-33-3-----	Methyl Acrylate	2.2	_____
74-88-4-----	Methyl Iodide	2.0	_____
80-62-6-----	Methyl Methacrylate	1.8	_____
76-01-7-----	Pentachloroethane	2.2	_____
107-12-0-----	Propionitrile	1.2	_____

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKD5

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: VBLKD5

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

Lab File ID: LMJB002V

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1-----	Acetone	2.5	U
75-35-4-----	1,1-Dichloroethene	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
75-15-0-----	Carbon Disulfide	1.0	U
75-09-2-----	Methylene Chloride	0.50	U
1634-04-4-----	Methyl-t-Butyl Ether	1.0	U
75-34-3-----	1,1-Dichloroethane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-Butanone	2.5	U
590-20-7-----	2,2-Dichloropropane	0.50	U
67-66-3-----	Chloroform	0.50	U
74-97-5-----	Bromochloromethane	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
563-58-6-----	1,1-Dichloropropene	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
107-06-2-----	1,2-Dichloroethane	0.50	U
71-43-2-----	Benzene	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
74-95-3-----	Dibromomethane	0.50	U
108-10-1-----	4-Methyl-2-Pentanone	2.5	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	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
591-78-6-----	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKD5

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: VBLKD5

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

Lab File ID: LMJB002V

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4-----	Tetrachloroethene	0.50	U
109-99-9-----	Tetrahydrofuran	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-----	Xylene (total)	0.50	U
100-42-5-----	Styrene	0.50	U
75-25-2-----	Bromoform	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
108-86-1-----	Bromobenzene	0.50	U
103-65-1-----	n-Propylbenzene	0.50	U
95-49-8-----	2-Chlorotoluene	0.50	U
108-67-8-----	1,3,5-Trimethylbenzene	0.50	U
106-43-4-----	4-Chlorotoluene	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
99-87-6-----	p-Isopropyltoluene	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
104-51-8-----	n-Butylbenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	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	0.21	J
91-20-3-----	Naphthalene	0.50	U
87-61-6-----	1,2,3-Trichlorobenzene	0.50	U
107-13-1-----	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKD5

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: VBLKD5

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

Lab File ID: LMJB002V

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U



FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKD5

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: VBLKD5

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

Lab File ID: LMJB002V

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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.

VBLKD7

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: VBLKD7

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

Lab File ID: LMJB001AV

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
67-64-1	Acetone	2.5	U
75-35-4	1,1-Dichloroethene	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	0.50	U
1634-04-4	Methyl-t-Butyl Ether	1.0	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	U
590-20-7	2,2-Dichloropropane	0.50	U
67-66-3	Chloroform	0.50	U
74-97-5	Bromochloromethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
563-58-6	1,1-Dichloropropene	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
71-43-2	Benzene	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
74-95-3	Dibromomethane	0.50	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
10061-01-5	cis-1,3-Dichloropropene	0.50	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
591-78-6	2-Hexanone	2.5	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKD7

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: VBLKD7

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

Lab File ID: LMJB001AV

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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
127-18-4	Tetrachloroethene	0.50	U
109-99-9	Tetrahydrofuran	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	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
108-86-1	Bromobenzene	0.50	U
103-65-1	n-Propylbenzene	0.50	U
95-49-8	2-Chlorotoluene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
106-43-4	4-Chlorotoluene	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
99-87-6	p-Isopropyltoluene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	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
107-13-1	Acrylonitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKD7

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: VBLKD7

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

Lab File ID: LMJB001AV

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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

107-05-1-----	Allyl Chloride	1.0	U
109-69-3-----	1-Chlorobutane	1.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	1.0	U
513-88-2-----	1,1-Dichloropropanone	1.0	U
60-29-7-----	Diethyl Ether	1.0	U
97-63-2-----	Ethyl Methacrylate	1.0	U
67-72-1-----	Hexachloroethane	1.0	U
126-98-7-----	Methacrylonitrile	1.0	U
96-33-3-----	Methyl Acrylate	1.0	U
74-88-4-----	Methyl Iodide	1.0	U
80-62-6-----	Methyl Methacrylate	1.0	U
76-01-7-----	Pentachloroethane	1.0	U
107-12-0-----	Propionitrile	1.0	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKD7

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix: (soil/water) WATER

Lab Sample ID: VBLKD7

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

Lab File ID: LMJB001AV

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 06/26/98

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 2  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

	CLIENT SAMPLE NO.	SMC1 (DCE) #	SMC2 (BFB) #	SMC3 (DCB) #	OTHER (TOL) #	TOT OUT
	=====	=====	=====	=====	=====	=====
01	VBLKD5	100	100	100	105	0
02	AL801	105	100	105	105	0
03	AL170	105	105	100	105	0
04	AL171	105	100	100	105	0
05	AL172	100	90	95	100	0
06	AL173	105	105	100	105	0
07	AL174	105	100	100	110	0
08	AL182	100	95	100	100	0
09	AL183	105	100	100	105	0
10	AL184	105	100	100	100	0
11	AL178	105	100	100	105	0
12	AL175	100	100	100	95	0
13	AL176	100	95	95	100	0
14	VBLKD7	100	105	105	100	0
15	LMJA LCS	110	100	105	105	0
16	AL176MS	105	100	105	105	0
17	AL176MSD	105	105	105	105	0
18	AL804	95	85	90	90	0
19	AL177	105	95	100	100	0
20	AL803	100	90	90	95	0
21	AL802	100	100	95	95	0
22	AL179	105	95	100	100	0
23	AL180	110	105	105	105	0
24	AL181	100	95	95	100	0
25						
26						
27						
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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: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix Spike - ENGSC2 Sample No.: AL176

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
m- & p-Xylene	20	0.0	18	90	70-130
o-Xylene	10	0.0	9.6	96	70-130
Dichlorodifluoromethane	10	0.0	8.6	86	70-130
Chloromethane	10	0.0	8.9	89	70-130
Vinyl Chloride	10	0.0	10	100	70-130
Bromomethane	10	0.0	11	110	70-130
Chloroethane	10	0.0	11	110	70-130
Trichlorofluoromethane	10	0.0	9.4	94	70-130
Acetone	50	1.5	47	91	70-130
1,1-Dichloroethene	10	0.0	15	150*	70-130
trans-1,2-Dichloroethen	10	0.0	10	100	70-130
Carbon Disulfide	20	0.0	17	85	70-130
Methylene Chloride	10	0.0	10	100	70-130
Methyl-t-Butyl Ether	20	0.0	19	95	70-130
1,1-Dichloroethane	10	0.0	11	110	70-130
cis-1,2-Dichloroethene	10	0.0	11	110	70-130
2-Butanone	50	0.0	60	120	70-130
2,2-Dichloropropane	10	0.0	10	100	70-130
Chloroform	10	0.0	9.4	94	70-130
Bromochloromethane	10	0.0	9.7	97	70-130
1,1,1-Trichloroethane	10	0.0	10	100	70-130
1,1-Dichloropropene	10	0.0	10	100	70-130
Carbon Tetrachloride	10	0.0	11	110	70-130
1,2-Dichloroethane	10	0.0	10	100	70-130
Benzene	10	0.0	10	100	70-130
Trichloroethene	10	0.0	9.9	99	70-130
1,2-Dichloropropane	10	0.0	10	100	70-130
Bromodichloromethane	10	0.0	9.8	98	70-130

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

\* Values outside of QC limits

COMMENTS:

SAME SOURCE AS LOS - KBN 6/29/98

FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix Spike - ENGSC2 Sample No.: AL176

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMIT REC.
Dibromomethane	10	0.0	9.8	98	70-13
4-Methyl-2-Pentanone	50	0.0	53	106	70-130
cis-1,3-Dichloropropene	10	0.0	10	100	70-130
Toluene	10	0.0	10	100	70-13
trans-1,3-Dichloropropene	10	0.0	10	100	70-13
1,1,2-Trichloroethane	10	0.0	9.7	97	70-130
2-Hexanone	50	0.0	60	120	70-130
1,3-Dichloropropane	10	0.0	10	100	70-13
Tetrachloroethene	10	0.0	8.3	83	70-130
Tetrahydrofuran	50	0.0	51	102	70-130
Dibromochloromethane	10	0.0	9.7	97	70-13
1,2-Dibromoethane	10	0.0	9.6	96	70-13
Chlorobenzene	10	0.0	9.4	94	70-130
1,1,1,2-Tetrachloroethane	10	0.0	9.6	96	70-130
Ethylbenzene	10	0.0	9.2	92	70-13
Xylene (total)	30	0.0	28	93	70-13
Styrene	10	0.0	8.0	80	70-130
Bromoform	10	0.0	9.7	97	70-13
Isopropylbenzene	10	0.0	9.7	97	70-13
1,1,2,2-Tetrachloroethane	10	0.0	9.9	99	70-130
1,2,3-Trichloropropane	10	0.0	9.3	93	70-130
Bromobenzene	10	0.0	9.6	96	70-13
n-Propylbenzene	10	0.0	9.3	93	70-13
2-Chlorotoluene	10	0.0	9.8	98	70-130
1,3,5-Trimethylbenzene	10	0.0	9.1	91	70-130
4-Chlorotoluene	10	0.0	9.6	96	70-13
tert-Butylbenzene	10	0.0	10	100	70-13
1,2,4-Trimethylbenzene	10	0.0	9.0	90	70-130

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

\* Values outside of QC limits

COMMENTS:

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FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix Spike - ENGSC2 Sample No.: AL176

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
sec-Butylbenzene	10	0.0	10	100	70-130
p-Isopropyltoluene	10	0.0	10	100	70-130
1,3-Dichlorobenzene	10	0.0	9.7	97	70-130
1,4-Dichlorobenzene	10	0.0	9.7	97	70-130
n-Butylbenzene	10	0.0	10	100	70-130
1,2-Dichlorobenzene	10	0.0	9.6	96	70-130
1,2-Dibromo-3-Chloropro	10	0.0	9.2	92	70-130
1,2,4-Trichlorobenzene	10	0.0	10	100	70-130
Hexachlorobutadiene	10	0.0	9.8	98	70-130
Naphthalene	10	0.0	9.6	96	70-130
1,2,3-Trichlorobenzene	10	0.0	9.9	99	70-130
Acrylonitrile	20	0.0	18	90	70-130
Allyl Chloride	20	0.0	18	90	70-130
1-Chlorobutane	20	0.0	19	95	70-130
trans-1,4-Dichloro-2-bu	20	0.0	24	120	70-130
1,1-Dichloropropanone	20	0.0	22	110	70-130
Diethyl Ether	20	0.0	18	90	70-130
Ethyl Methacrylate	20	0.0	21	105	70-130
Hexachloroethane	20	0.0	24	120	70-130
Methacrylonitrile	20	0.0	21	105	70-130
Methyl Acrylate	20	0.0	22	110	70-130
Methyl Iodide	20	0.0	19	95	70-130
Methyl Methacrylate	20	0.0	20	100	70-130
Pentachloroethane	20	0.0	24	120	70-130
Propionitrile	20	0.0	26	130	70-130

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

\* Values outside of QC limits

COMMENTS:

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FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix Spike - ENGSC2 Sample No.: AL176

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
m- & p-Xylene	20	18	90	0	30	70-130
o-Xylene	10	9.4	94	2	30	70-130
Dichlorodifluoromethane	10	8.2	82	5	30	70-130
Chloromethane	10	8.3	83	7	30	70-130
Vinyl Chloride	10	10	100	0	30	70-130
Bromomethane	10	11	110	0	30	70-130
Chloroethane	10	10	100	10	30	70-130
Trichlorofluoromethane	10	8.9	89	5	30	70-130
Acetone	50	44	85	7	30	70-130
1,1-Dichloroethene	10	14	140*	7	30	70-130
trans-1,2-Dichloroethen	10	9.8	98	2	30	70-130
Carbon Disulfide	20	16	80	6	30	70-130
Methylene Chloride	10	9.7	97	3	30	70-130
Methyl-t-Butyl Ether	20	18	90	5	30	70-130
1,1-Dichloroethane	10	10	100	10	30	70-130
cis-1,2-Dichloroethene	10	10	100	10	30	70-130
2-Butanone	50	54	108	10	30	70-130
2,2-Dichloropropane	10	9.6	96	4	30	70-130
Chloroform	10	9.1	91	3	30	70-130
Bromochloromethane	10	9.3	93	4	30	70-130
1,1,1-Trichloroethane	10	9.6	96	4	30	70-130
1,1-Dichloropropene	10	9.8	98	2	30	70-130
Carbon Tetrachloride	10	10	100	10	30	70-130
1,2-Dichloroethane	10	9.6	96	4	30	70-130
Benzene	10	9.7	97	3	30	70-130
Trichloroethene	10	9.3	93	6	30	70-130
1,2-Dichloropropane	10	9.7	97	3	30	70-130
Bromodichloromethane	10	9.2	92	6	30	70-130

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

\* Values outside of QC limits

COMMENTS:

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FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix Spike - ENGSC2 Sample No.: AL176

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Dibromomethane	10	9.3	93	5	30	70-130
4-Methyl-2-Pentanone	50	49	98	8	30	70-130
cis-1,3-Dichloropropene	10	9.4	94	6	30	70-130
Toluene	10	9.4	94	6	30	70-130
trans-1,3-Dichloropropene	10	9.7	97	3	30	70-130
1,1,2-Trichloroethane	10	9.2	92	5	30	70-130
2-Hexanone	50	55	110	9	30	70-130
1,3-Dichloropropane	10	9.6	96	4	30	70-130
Tetrachloroethene	10	8.0	80	4	30	70-130
Tetrahydrofuran	50	45	90	12	30	70-130
Dibromochloromethane	10	9.3	93	4	30	70-130
1,2-Dibromoethane	10	9.3	93	3	30	70-130
Chlorobenzene	10	9.1	91	3	30	70-130
1,1,1,2-Tetrachloroethane	10	9.2	92	4	30	70-130
Ethylbenzene	10	8.9	89	3	30	70-130
Xylene (total)	30	28	93	0	30	70-130
Styrene	10	9.2	92	14	30	70-130
Bromoform	10	9.0	90	7	30	70-130
Isopropylbenzene	10	9.4	94	3	30	70-130
1,1,2,2-Tetrachloroethane	10	9.5	95	4	30	70-130
1,2,3-Trichloropropane	10	9.2	92	1	30	70-130
Bromobenzene	10	9.3	93	3	30	70-130
n-Propylbenzene	10	9.4	94	1	30	70-130
2-Chlorotoluene	10	9.3	93	5	30	70-130
1,3,5-Trimethylbenzene	10	9.3	93	2	30	70-130
4-Chlorotoluene	10	9.4	94	2	30	70-130
tert-Butylbenzene	10	10	100	0	30	70-130
1,2,4-Trimethylbenzene	10	9.4	94	4	30	70-130

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

\* Values outside of QC limits

COMMENTS:

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FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix Spike - ENGSC2 Sample No.: AL176

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
sec-Butylbenzene	10	10	100	0	30	70-130
p-Isopropyltoluene	10	10	100	0	30	70-130
1,3-Dichlorobenzene	10	9.4	94	3	30	70-130
1,4-Dichlorobenzene	10	9.3	93	4	30	70-130
n-Butylbenzene	10	10	100	0	30	70-130
1,2-Dichlorobenzene	10	9.2	92	4	30	70-130
1,2-Dibromo-3-Chloropro	10	9.2	92	0	30	70-130
1,2,4-Trichlorobenzene	10	10	100	0	30	70-130
Hexachlorobutadiene	10	9.6	96	2	30	70-130
Naphthalene	10	9.6	96	0	30	70-130
1,2,3-Trichlorobenzene	10	10	100	1	30	70-130
Acrylonitrile	20	17	85	6	30	70-130
Allyl Chloride	20	17	85	6	30	70-130
1-Chlorobutane	20	18	90	5	30	70-130
trans-1,4-Dichloro-2-bu	20	22	110	9	30	70-130
1,1-Dichloropropanone	20	21	105	5	30	70-130
Diethyl Ether	20	17	85	6	30	70-130
Ethyl Methacrylate	20	19	95	10	30	70-130
Hexachloroethane	20	22	110	9	30	70-130
Methacrylonitrile	20	19	95	10	30	70-130
Methyl Acrylate	20	21	105	5	30	70-130
Methyl Iodide	20	18	90	5	30	70-130
Methyl Methacrylate	20	20	100	0	30	70-130
Pentachloroethane	20	22	110	9	30	70-130
Propionitrile	20	26	130	0	30	70-130

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

\* Values outside of QC limits

RPD: 0 out of 81 outside limits

Spike Recovery: 2 out of 162 outside limits

COMMENTS:

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FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix Spike - Sample No.: LMJA LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
m- & p-Xylene	2.0		2.0	100	70-130
o-Xylene	1.0		0.95	95	70-130
Dichlorodifluoromethane	1.0		0.88	88	70-130
Chloromethane	1.0		0.91	91	70-130
Vinyl Chloride	1.0		1.0	100	70-130
Bromomethane	1.0		1.2	120	70-130
Chloroethane	1.0		1.1	110	70-130
Trichlorofluoromethane	1.0		0.92	92	70-130
Acetone	5.0		4.7	94	70-130
1,1-Dichloroethene	1.0		1.5	150*	70-130
trans-1,2-Dichloroethen	1.0		1.0	100	70-130
Carbon Disulfide	2.0		1.8	90	70-130
Methylene Chloride	1.0		1.2	120	70-130
Methyl-t-Butyl Ether	2.0		2.0	100	70-130
1,1-Dichloroethane	1.0		1.1	110	70-130
cis-1,2-Dichloroethene	1.0		1.1	110	70-130
2-Butanone	5.0		4.8	96	70-130
2,2-Dichloropropane	1.0		1.2	120	70-130
Chloroform	1.0		1.4	140*	70-130
Bromochloromethane	1.0		0.99	99	70-130
1,1,1-Trichloroethane	1.0		1.0	100	70-130
1,1-Dichloropropene	1.0		1.0	100	70-130
Carbon Tetrachloride	1.0		1.0	100	70-130
1,2-Dichloroethane	1.0		1.0	100	70-130
Benzene	1.0		1.2	120	70-130
Trichloroethene	1.0		0.95	95	70-130
1,2-Dichloropropane	1.0		1.0	100	70-130
Bromodichloromethane	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: QCS - Independent Source Standard RSD 6/29/98

FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix Spike - Sample No.: LMJA LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dibromomethane	1.0		0.97	97	70-130
4-Methyl-2-Pentanone	5.0		5.0	100	70-130
cis-1,3-Dichloropropene	1.0		0.94	94	70-130
Toluene	1.0		0.99	99	70-130
trans-1,3-Dichloroprope	1.0		0.91	91	70-130
1,1,2-Trichloroethane	1.0		0.96	96	70-130
2-Hexanone	5.0		6.8	136*	70-130
1,3-Dichloropropane	1.0		0.98	98	70-130
Tetrachloroethene	1.0		0.88	88	70-130
Tetrahydrofuran	5.0		4.6	92	70-130
Dibromochloromethane	1.0		0.86	86	70-130
1,2-Dibromoethane	1.0		0.90	90	70-130
Chlorobenzene	1.0		0.97	97	70-130
1,1,1,2-Tetrachloroetha	1.0		0.92	92	70-130
Ethylbenzene	1.0		0.98	98	70-130
Xylene (total)	3.0		3.0	100	70-130
Styrene	1.0		0.94	94	70-130
Bromoform	1.0		0.82	82	70-130
Isopropylbenzene	1.0		0.96	96	70-130
1,1,2,2-Tetrachloroetha	1.0		0.94	94	70-130
1,2,3-Trichloropropane	1.0		1.1	110	70-130
Bromobenzene	1.0		0.88	88	70-130
n-Propylbenzene	1.0		0.93	93	70-130
2-Chlorotoluene	1.0		0.98	98	70-130
1,3,5-Trimethylbenzene	1.0		0.96	96	70-130
4-Chlorotoluene	1.0		0.96	96	70-130
tert-Butylbenzene	1.0		1.1	110	70-130
1,2,4-Trimethylbenzene	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:

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FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Matrix Spike - Sample No.: LMJA LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
sec-Butylbenzene	1.0		1.1	110	70-130
p-Isopropyltoluene	1.0		1.0	100	70-130
1,3-Dichlorobenzene	1.0		1.0	100	70-130
1,4-Dichlorobenzene	1.0		0.96	96	70-130
n-Butylbenzene	1.0		1.1	110	70-130
1,2-Dichlorobenzene	1.0		1.0	100	70-130
1,2-Dibromo-3-Chloropro	1.0		0.97	97	70-130
1,2,4-Trichlorobenzene	1.0		1.1	110	70-130
Hexachlorobutadiene	1.0		1.0	100	70-130
Naphthalene	1.0		0.97	97	70-130
1,2,3-Trichlorobenzene	1.0		1.1	110	70-130
Acrylonitrile	2.0		2.1	105	70-130
Allyl Chloride	2.0		1.8	90	70-130
1-Chlorobutane	2.0		2.0	100	70-130
trans-1,4-Dichloro-2-bu	2.0		1.9	95	70-130
1,1-Dichloropropanone	2.0		2.1	105	70-130
Diethyl Ether	2.0		1.8	90	70-130
Ethyl Methacrylate	2.0		1.9	95	70-130
Hexachloroethane	2.0		2.3	115	70-130
Methacrylonitrile	2.0		1.8	90	70-130
Methyl Acrylate	2.0		2.2	110	70-130
Methyl Iodide	2.0		2.0	100	70-130
Methyl Methacrylate	2.0		1.8	90	70-130
Pentachloroethane	2.0		2.2	110	70-130
Propionitrile	2.0		1.2	60*	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 81 outside limits

COMMENTS:

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6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Instrument ID: L

Calibration Date(s): 06/26/98

06/26/98

Heated Purge: (Y/N) N

Calibration Time(s): 1011

1243

GC Column: DB-624

ID: 0.53 (mm)

LAB FILE ID:	RRF0.5=LMJ0005H2V	RRF2 =LMJ002HV	RRF10 =LMJ010HV	RRF20 =LMJ020HV	RRF30 =LMJ030HV	RRF	% RSD
COMPOUND	RRF0.5	RRF2	RRF10	RRF20	RRF30	RRF	% RSD
Dichlorodifluoromethane	0.272	0.247	0.258	0.254	0.244	0.255	4.3
Chloromethane	0.260	0.246	0.236	0.226	0.210	0.236	8.0
Vinyl Chloride	0.197	0.202	0.195	0.193	0.186	0.195	3.0
Bromomethane	0.226	0.152	0.136	0.112	0.105	0.146	33.1
Chloroethane	0.132	0.133	0.127	0.104	0.083	0.116	18.7
Trichlorofluoromethane	0.491	0.486	0.475	0.466	0.444	0.472	3.9
Acetone	0.057	0.039	0.038	0.038	0.035	0.041	21.4
1,1-Dichloroethene	0.157	0.156	0.153	0.151	0.147	0.153	2.6
trans-1,2-Dichloroethene	0.248	0.248	0.246	0.242	0.233	0.243	2.5
Carbon Disulfide	0.735	0.710	0.692	0.684	0.655	0.695	4.3
Methylene Chloride	0.283	0.221	0.214	0.210	0.199	0.225	14.7
Methyl-t-Butyl Ether	0.603	0.575	0.563	0.557	0.533	0.566	4.5
1,1-Dichloroethane	0.461	0.429	0.425	0.420	0.395	0.426	5.6
cis-1,2-Dichloroethene	0.247	0.255	0.249	0.247	0.237	0.247	2.7
2-Butanone	0.009	0.014	0.017	0.017	0.018	0.015	24.8
2,2-Dichloropropane	0.449	0.435	0.416	0.415	0.393	0.422	5.1
Chloroform	0.740	0.587	0.555	0.541	0.516	0.588	15.1
Bromochloromethane	0.171	0.171	0.170	0.165	0.159	0.167	3.1
1,1,1-Trichloroethane	0.467	0.472	0.460	0.458	0.438	0.459	2.8
1,1-Dichloropropene	0.441	0.409	0.405	0.397	0.379	0.406	5.5
Carbon Tetrachloride	0.366	0.378	0.386	0.382	0.366	0.376	2.5
1,2-Dichloroethane	0.288	0.298	0.283	0.283	0.268	0.284	3.9
Benzene	1.032	0.875	0.825	0.806	0.774	0.862	11.8
Trichloroethene	0.369	0.363	0.347	0.344	0.326	0.350	4.9
1,2-Dichloropropane	0.310	0.304	0.307	0.297	0.284	0.300	3.6
Bromodichloromethane	0.502	0.516	0.532	0.533	0.505	0.518	2.8
Dibromomethane	0.254	0.254	0.256	0.254	0.241	0.252	2.3
4-Methyl-2-Pentanone	0.081	0.080	0.084	0.085	0.080	0.082	3.0
cis-1,3-Dichloropropene	0.442	0.458	0.477	0.475	0.450	0.460	3.3
Toluene	0.582	0.575	0.578	0.575	0.551	0.572	2.1
trans-1,3-Dichloropropene	0.333	0.346	0.393	0.393	0.370	0.367	7.5
1,1,2-Trichloroethane	0.265	0.251	0.242	0.239	0.224	0.244	6.2
2-Hexanone	0.109	0.105	0.130	0.135	0.130	0.122	11.2
1,3-Dichloropropane	0.466	0.462	0.456	0.459	0.434	0.455	2.8
Tetrachloroethene	0.557	0.562	0.514	0.612	0.607	0.570	7.1
Tetrahydrofuran	0.059	0.053	0.050	0.054	0.051	0.053	6.7
Dibromochloromethane	0.524	0.553	0.588	0.592	0.577	0.567	5.0

\* Compounds with required minimum RRF and maximum %RSD values.  
All other compounds must meet a minimum RRF of 0.010.



FORM 4  
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKD5

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69582  
 Lab File ID: LMJB002V                              Lab Sample ID: VBLKD5  
 Date Analyzed: 06/26/98                              Time Analyzed: 1443  
 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	LAR FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	AL801	359349	L359349V	1537
02	AL170	359350	L359350V	1607
03	AL171	359352	L359352V	1636
04	AL172	359354	L359354V	1705
05	AL173	359356	L359356V	1733
06	AL174	359358	L359358V	1802
07	AL182	359447	L359447V	1831
08	AL183	359449	L359449V	1900
09	AL184	359451	L359451V	1926
10	AL178	359453	L359453V	1952
11	AL175	359455	L359455V	2021
12	AL176	359457	L359457V	2050
13				
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29				
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COMMENTS:

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FORM 4  
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

VBLKD7

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Lab File ID: LMJB001AV

Lab Sample ID: VBLKD7

Date Analyzed: 06/26/98

Time Analyzed: 2349

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	LMJA LCS	LMJA LCS	LMJ001A2QV	0019
02	AL176MS	359457MS	L359457MSV	0100
03	AL176MSD	359457MD	L359457MDV	0129
04	AL804	359459	L359459V	0227
05	AL177	359460	L359460V	0256
06	AL803	359462	L359462V	0326
07	AL802	359463	L359463V	0355
08	AL179	359464	L359464V	0424
09	AL180	359465	L359465V	0453
10	AL181	359466	L359466V	0522
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COMMENTS:

FORM 5  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT    Case No.: 98011    SAS No.:                      SDG No.: 69582  
 Lab File ID: LMJ001PV                              BFB Injection Date: 06/26/98  
 Instrument ID: L                                      BFB Injection Time: 0904  
 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	16.5
75	30.0 - 60.0% of mass 95	44.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3 ( 0.5)1
174	50.0 - 120.0% of mass 95	69.3
175	5.0 - 9.0% of mass 174	5.1 ( 7.4)1
176	95.0 - 101.0% of mass 174	66.6 ( 96.2)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	VSTD002	VSTD002	LMJ002HV	06/26/98	1011
02	VSTD010	VSTD010	LMJ010HV	06/26/98	1041
03	VSTD020	VSTD020	LMJ020HV	06/26/98	1110
04	VSTD030	VSTD030	LMJ030HV	06/26/98	1138
05	VSTD0005	VSTD0005	LMJ0005H2V	06/26/98	1243
06	LMJ ICV	LMJ ICV	LMJ010QV	06/26/98	1351
07	VBLKD5	VBLKD5	LMJB002V	06/26/98	1443
08	AL1801	359349	L359349V	06/26/98	1537
09	AL170	359350	L359350V	06/26/98	1607
10	AL171	359352	L359352V	06/26/98	1636
11	AL172	359354	L359354V	06/26/98	1705
12	AL173	359356	L359356V	06/26/98	1733
13	AL174	359358	L359358V	06/26/98	1802
14	AL182	359447	L359447V	06/26/98	1831
15	AL183	359449	L359449V	06/26/98	1900
16	AL184	359451	L359451V	06/26/98	1926
17	AL178	359453	L359453V	06/26/98	1952
18	AL175	359455	L359455V	06/26/98	2021
19	AL176	359457	L359457V	06/26/98	2050
20					
21					
22					

FORM 5  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69582  
 Lab File ID: LMJ002PV                              BFB Injection Date: 06/26/98  
 Instrument ID: L                                      BFB Injection Time: 2122  
 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	16.9
75	30.0 - 60.0% of mass 95	45.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 ( 0.0)1
174	50.0 - 120.0% of mass 95	70.4
175	5.0 - 9.0% of mass 174	5.0 ( 7.0)1
176	95.0 - 101.0% of mass 174	68.0 ( 96.5)1
177	5.0 - 9.0% of mass 176	4.6 ( 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	VSTD010	VSTD010	LMJ010A3HV	06/26/98	2226
02	VBLKD7	VBLKD7	LMJB001AV	06/26/98	2349
03	LMJA LCS	LMJA LCS	LMJ001A2QV	06/27/98	0019
04	AL176MS	359457MS	L359457MSV	06/27/98	0100
05	AL176MSD	359457MD	L359457MDV	06/27/98	0129
06	AL804	359459	L359459V	06/27/98	0227
07	AL177	359460	L359460V	06/27/98	0256
08	AL803	359462	L359462V	06/27/98	0326
09	AL802	359463	L359463V	06/27/98	0355
10	AL179	359464	L359464V	06/27/98	0424
11	AL180	359465	L359465V	06/27/98	0453
12	AL181	359466	L359466V	06/27/98	0522
13					
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6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Instrument ID: L

Calibration Date(s): 06/26/98

06/26/98

Heated Purge: (Y/N) N

Calibration Time(s): 1011

1243

GC Column: DB-624

ID: 0.53 (mm)

LAB FILE ID: RRF0.5=LMJ0005H2V RRF2 =LMJ002HV		RRF10 =LMJ010HV RRF20 =LMJ020HV		RRF30 =LMJ030HV			
COMPOUND	RRF0.5	RRF2	RRF10	RRF20	RRF30	RRF	% RSD
1,2-Dibromoethane	0.471	0.500	0.525	0.512	0.490	0.500	4.1
Chlorobenzene	0.966	0.968	0.931	0.913	0.876	0.931	4.1
1,1,1,2-Tetrachloroethane	0.477	0.505	0.499	0.501	0.485	0.493	2.4
Ethylbenzene	1.756	1.693	1.594	1.541	1.481	1.613	6.9
Xylene (total)	0.549	0.573	0.550	0.545	0.526	0.549	3.0
Styrene	0.923	0.915	0.925	0.896	0.884	0.909	2.0
Bromoform	0.344	0.387	0.440	0.442	0.448	0.412	11.0
Isopropylbenzene	1.657	1.648	1.595	1.538	1.488	1.585	4.6
1,1,2,2-Tetrachloroethane	0.640	0.608	0.616	0.585	0.564	0.603	4.9
1,2,3-Trichloropropane	0.462	0.419	0.444	0.392	0.343	0.412	11.3
Bromobenzene	0.550	0.562	0.561	0.559	0.527	0.548	2.7
n-Propylbenzene	0.672	0.631	0.619	0.607	0.585	0.623	5.2
2-Chlorotoluene	0.415	0.403	0.390	0.376	0.370	0.391	4.8
1,3,5-Trimethylbenzene	1.283	1.215	1.168	1.120	1.078	1.173	6.8
4-Chlorotoluene	0.419	0.379	0.402	0.387	0.380	0.393	4.4
tert-Butylbenzene	1.907	1.756	1.711	1.571	1.478	1.685	9.9
1,2,4-Trimethylbenzene	1.289	1.184	1.160	1.104	1.067	1.161	7.3
sec-Butylbenzene	1.802	1.645	1.582	1.527	1.455	1.602	8.2
p-Isopropyltoluene	1.492	1.298	1.251	1.214	1.164	1.284	9.8
1,3-Dichlorobenzene	0.990	0.909	0.878	0.848	0.805	0.886	7.8
1,4-Dichlorobenzene	1.091	0.968	0.912	0.902	0.868	0.948	9.2
n-Butylbenzene	1.571	1.232	1.160	1.119	1.058	1.228	16.5
1,2-Dichlorobenzene	0.957	0.865	0.790	0.769	0.727	0.822	11.0
1,2-Dibromo-3-Chloropropane	0.186	0.109	0.119	0.122	0.116	0.130	24.0
1,2,4-Trichlorobenzene	0.648	0.525	0.514	0.510	0.486	0.537	11.9
Hexachlorobutadiene	0.423	0.294	0.285	0.283	0.276	0.312	19.9
Naphthalene	1.312	1.033	1.019	1.019	0.973	1.071	12.8
1,2,3-Trichlorobenzene	0.608	0.465	0.466	0.462	0.443	0.489	13.8
Acrylonitrile	0.059	0.040	0.038	0.036	0.034	0.041	24.1
Allyl Chloride	0.372	0.385	0.371	0.361	0.349	0.368	3.6
1-Chlorobutane	0.557	0.548	0.527	0.509	0.487	0.526	5.4
trans-1,4-Dichloro-2-butene	0.062	0.066	0.077	0.078	0.076	0.072	10.1
1,1-Dichloropropanone	0.574	0.606	0.633	0.657	0.618	0.618	5.0
Diethyl Ether	0.157	0.155	0.154	0.149	0.140	0.151	4.5
Ethyl Methacrylate	0.322	0.329	0.352	0.349	0.336	0.338	3.8
Hexachloroethane	0.256	0.232	0.255	0.253	0.241	0.247	4.2
Methacrylonitrile	0.062	0.055	0.065	0.065	0.064	0.062	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: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Instrument ID: L

Calibration Date: 06/26/98

Time: 1351

Lab File ID: LMJ010QV

Init. Calib. Date(s): 06/26/98

06/26/98

Heated Purge: (Y/N) N

Init. Calib. Times: 1011

1243

GC Column: DB-624

ID: 0.53 (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.255	0.247	0.01	3.1	30.0
Chloromethane	0.236	0.243	0.01	-3.0	30.0
Vinyl Chloride	0.195	0.219	0.01	-12.3	30.0
Bromomethane	0.146	0.166	0.01	-13.7	30.0
Chloroethane	0.116	0.137	0.01	-18.1	30.0
Trichlorofluoromethane	0.472	0.480	0.01	-1.7	30.0
Acetone	0.041	0.037	0.01	9.8	30.0
1,1-Dichloroethene	0.153	0.252	0.01	-64.7	30.0
trans-1,2-Dichloroethene	0.243	0.279	0.01	-14.8	30.0
Carbon Disulfide	0.695	0.672	0.01	3.3	30.0
Methylene Chloride	0.225	0.254	0.01	-12.9	30.0
Methyl-t-Butyl Ether	0.566	0.580	0.01	-2.5	30.0
1,1-Dichloroethane	0.426	0.489	0.01	-14.8	30.0
cis-1,2-Dichloroethene	0.247	0.303	0.01	-22.7	30.0
2-Butanone	0.015	0.018	0.01	-20.0	30.0
2,2-Dichloropropane	0.422	0.481	0.01	-14.0	30.0
Chloroform	0.588	0.604	0.01	-2.7	30.0
Bromochloromethane	0.167	0.179	0.01	-7.2	30.0
1,1,1-Trichloroethane	0.459	0.513	0.01	-11.8	30.0
1,1-Dichloropropene	0.406	0.465	0.01	-14.5	30.0
Carbon Tetrachloride	0.376	0.434	0.01	-15.4	30.0
1,2-Dichloroethane	0.284	0.313	0.01	-10.2	30.0
Benzene	0.862	0.984	0.01	-14.2	30.0
Trichloroethene	0.350	0.383	0.01	-9.4	30.0
1,2-Dichloropropane	0.300	0.340	0.01	-13.3	30.0
Bromodichloromethane	0.518	0.575	0.01	-11.0	30.0
Dibromomethane	0.252	0.279	0.01	-10.7	30.0
4-Methyl-2-Pentanone	0.082	0.091	0.01	-11.0	30.0
cis-1,3-Dichloropropene	0.460	0.518	0.01	-12.6	30.0
Toluene	0.572	0.630	0.01	-10.1	30.0
trans-1,3-Dichloropropene	0.367	0.408	0.01	-11.2	30.0
1,1,2-Trichloroethane	0.244	0.259	0.01	-6.1	30.0
2-Hexanone	0.122	0.141	0.01	-15.6	30.0
1,3-Dichloropropane	0.455	0.497	0.01	-9.2	30.0
Tetrachloroethene	0.570	0.530	0.01	7.0	30.0
Tetrahydrofuran	0.053	0.055	0.01	-3.8	30.0
Dibromochloromethane	0.567	0.625	0.01	-10.2	30.0

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Instrument ID: L

Calibration Date: 06/26/98

Time: 1351

Lab File ID: LMJ010QV

Init. Calib. Date(s): 06/26/98

06/26/98

Heated Purge: (Y/N) N

Init. Calib. Times: 1011

1243

GC Column: DB-624

ID: 0.53 (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
1,2-Dibromoethane	0.500	0.537	0.01	-7.4	30.0
Chlorobenzene	0.931	0.982	0.01	-5.5	30.0
1,1,1,2-Tetrachloroethane	0.493	0.526	0.01	-6.7	30.0
Ethylbenzene	1.613	1.662	0.01	-3.0	30.0
Xylene (total)	0.549	0.588	0.01	-7.1	30.0
Styrene	0.909	0.958	0.01	-5.4	30.0
Bromoform	0.412	0.467	0.01	-13.3	30.0
Isopropylbenzene	1.585	1.669	0.01	-5.3	30.0
1,1,2,2-Tetrachloroethane	0.603	0.641	0.01	-6.3	30.0
1,2,3-Trichloropropane	0.412	0.430	0.01	-4.4	30.0
Bromobenzene	0.548	0.579	0.01	-5.6	30.0
n-Propylbenzene	0.623	0.643	0.01	-3.2	30.0
2-Chlorotoluene	0.391	0.407	0.01	-4.1	30.0
1,3,5-Trimethylbenzene	1.173	1.201	0.01	-2.4	30.0
4-Chlorotoluene	0.393	0.410	0.01	-4.3	30.0
tert-Butylbenzene	1.685	1.838	0.01	-9.1	30.0
1,2,4-Trimethylbenzene	1.161	1.195	0.01	-2.9	30.0
sec-Butylbenzene	1.602	1.717	0.01	-7.2	30.0
p-Isopropyltoluene	1.284	1.341	0.01	-4.4	30.0
1,3-Dichlorobenzene	0.886	0.922	0.01	-4.1	30.0
1,4-Dichlorobenzene	0.948	0.962	0.01	-1.5	30.0
n-Butylbenzene	1.228	1.227	0.01	0.1	30.0
1,2-Dichlorobenzene	0.822	0.846	0.01	-2.9	30.0
1,2-Dibromo-3-Chloropropane	0.130	0.128	0.01	1.5	30.0
1,2,4-Trichlorobenzene	0.537	0.548	0.01	-2.0	30.0
Hexachlorobutadiene	0.312	0.303	0.01	2.9	30.0
Naphthalene	1.071	1.055	0.01	1.5	30.0
1,2,3-Trichlorobenzene	0.489	0.490	0.01	-0.2	30.0
Acrylonitrile	0.041	0.038	0.01	7.3	30.0
Allyl Chloride	0.368	0.365	0.01	0.8	30.0
1-Chlorobutane	0.526	0.546	0.01	-3.8	30.0
trans-1,4-Dichloro-2-butene	0.072	0.086	0.01	-19.4	30.0
1,1-Dichloropropanone	0.618	0.723	0.01	-17.0	30.0
Diethyl Ether	0.151	0.147	0.01	2.6	30.0
Ethyl Methacrylate	0.338	0.385	0.01	-13.9	30.0
Hexachloroethane	0.247	0.294	0.01	-19.0	30.0
Methacrylonitrile	0.062	0.067	0.01	-8.1	30.0



FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT    Case No.: 98011    SAS No.:                      SDG No.: 69582  
 Instrument ID: L                      Calibration Date: 06/26/98    Time: 1351  
 Lab File ID: LMJ010QV                      Init. Calib. Date(s): 06/26/98    06/26/98  
 Heated Purge: (Y/N) N                      Init. Calib. Times:    1011                      1243  
 GC Column: DB-624    ID: 0.53    (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
Methyl Acrylate	0.168	0.192	0.01	-14.3	30.0
Methyl Iodide	0.548	0.572	0.01	-4.4	30.0
Methyl Methacrylate	0.161	0.182	0.01	-13.0	30.0
Pentachloroethane	0.221	0.278	0.01	-25.8	30.0
Propionitrile	0.013	0.015	0.01	-15.4	30.0
1,2-Dichloroethane-d4	0.269	0.052	0.01	80.7	30.0
Bromofluorobenzene	0.761	0.161	0.01	78.8	30.0
1,2-Dichlorobenzene-d4	0.535	0.111	0.01	79.2	30.0
Toluene-d8	0.833	0.177	0.01	78.8	30.0

<- 95% R  
 <- 105% R  
 <- 105% R  
 <- 105% R

*QCS - Independent source standard*

*KFW 6/29/98*

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Instrument ID: L

Calibration Date: 06/26/98

Time: 2226

Lab File ID: LMJ010A3HV

Init. Calib. Date(s): 06/26/98

06/26/98

Heated Purge: (Y/N) N

Init. Calib. Times: 1011

1243

GC Column: DB-624

ID: 0.53 (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.255	0.275	0.01	-7.8	30.0
Chloromethane	0.236	0.202	0.01	14.4	30.0
Vinyl Chloride	0.195	0.205	0.01	-5.1	30.0
Bromomethane	0.146	0.151	0.01	-3.4	30.0
Chloroethane	0.116	0.129	0.01	-11.2	30.0
Trichlorofluoromethane	0.472	0.500	0.01	-5.9	30.0
Acetone	0.041	0.041	0.01	0.0	30.0
1,1-Dichloroethene	0.153	0.151	0.01	1.3	30.0
trans-1,2-Dichloroethene	0.243	0.249	0.01	-2.5	30.0
Carbon Disulfide	0.695	0.697	0.01	-0.3	30.0
Methylene Chloride	0.225	0.217	0.01	3.6	30.0
Methyl-t-Butyl Ether	0.566	0.588	0.01	-3.9	30.0
1,1-Dichloroethane	0.426	0.439	0.01	-3.0	30.0
cis-1,2-Dichloroethene	0.247	0.250	0.01	-1.2	30.0
2-Butanone	0.015	0.019	0.01	-26.7	30.0
2,2-Dichloropropane	0.422	0.446	0.01	-5.7	30.0
Chloroform	0.588	0.584	0.01	0.7	30.0
Bromochloromethane	0.167	0.173	0.01	-3.6	30.0
1,1,1-Trichloroethane	0.459	0.482	0.01	-5.0	30.0
1,1-Dichloropropene	0.406	0.420	0.01	-3.4	30.0
Carbon Tetrachloride	0.376	0.408	0.01	-8.5	30.0
1,2-Dichloroethane	0.284	0.297	0.01	-4.6	30.0
Benzene	0.862	0.850	0.01	1.4	30.0
Trichloroethene	0.350	0.358	0.01	-2.3	30.0
1,2-Dichloropropane	0.300	0.315	0.01	-5.0	30.0
Bromodichloromethane	0.518	0.545	0.01	-5.2	30.0
Dibromomethane	0.252	0.267	0.01	-6.0	30.0
4-Methyl-2-Pentanone	0.082	0.089	0.01	-8.5	30.0
cis-1,3-Dichloropropene	0.460	0.488	0.01	-6.1	30.0
Toluene	0.572	0.604	0.01	-5.6	30.0
trans-1,3-Dichloropropene	0.367	0.413	0.01	-12.5	30.0
1,1,2-Trichloroethane	0.244	0.254	0.01	-4.1	30.0
2-Hexanone	0.122	0.153	0.01	-25.4	30.0
1,3-Dichloropropane	0.455	0.490	0.01	-7.7	30.0
Tetrachloroethene	0.570	0.522	0.01	8.4	30.0
Tetrahydrofuran	0.053	0.058	0.01	-9.4	30.0
Dibromochloromethane	0.567	0.583	0.01	-2.8	30.0

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Instrument ID: L

Calibration Date: 06/26/98

Time: 2226

Lab File ID: LMJ010A3HV

Init. Calib. Date(s): 06/26/98

06/26/98

Heated Purge: (Y/N) N

Init. Calib. Times: 1011

1243

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
1,2-Dibromoethane	0.500	0.517	0.01	-3.4	30.0
Chlorobenzene	0.931	0.942	0.01	-1.2	30.0
1,1,1,2-Tetrachloroethane	0.493	0.502	0.01	-1.8	30.0
Ethylbenzene	1.613	1.614	0.01	-0.1	30.0
Xylene (total)	0.549	0.561	0.01	-2.2	30.0
Styrene	0.909	0.925	0.01	-1.8	30.0
Bromoform	0.412	0.429	0.01	-4.1	30.0
Isopropylbenzene	1.585	1.654	0.01	-4.4	30.0
1,1,2,2-Tetrachloroethane	0.603	0.635	0.01	-5.3	30.0
1,2,3-Trichloropropane	0.412	0.454	0.01	-10.2	30.0
Bromobenzene	0.548	0.570	0.01	-4.0	30.0
n-Propylbenzene	0.623	0.650	0.01	-4.3	30.0
2-Chlorotoluene	0.391	0.408	0.01	-4.3	30.0
1,3,5-Trimethylbenzene	1.173	1.249	0.01	-6.5	30.0
4-Chlorotoluene	0.393	0.412	0.01	-4.8	30.0
tert-Butylbenzene	1.685	1.864	0.01	-10.6	30.0
1,2,4-Trimethylbenzene	1.161	1.225	0.01	-5.5	30.0
sec-Butylbenzene	1.602	1.774	0.01	-10.7	30.0
p-Isopropyltoluene	1.284	1.423	0.01	-10.8	30.0
1,3-Dichlorobenzene	0.886	0.935	0.01	-5.5	30.0
1,4-Dichlorobenzene	0.948	0.967	0.01	-2.0	30.0
n-Butylbenzene	1.228	1.352	0.01	-10.1	30.0
1,2-Dichlorobenzene	0.822	0.834	0.01	-1.4	30.0
1,2-Dibromo-3-Chloropropane	0.130	0.129	0.01	0.8	30.0
1,2,4-Trichlorobenzene	0.537	0.604	0.01	-12.5	30.0
Hexachlorobutadiene	0.312	0.332	0.01	-6.4	30.0
Naphthalene	1.071	1.128	0.01	-5.3	30.0
1,2,3-Trichlorobenzene	0.489	0.544	0.01	-11.2	30.0
Acrylonitrile	0.041	0.038	0.01	7.3	30.0
Allyl Chloride	0.368	0.378	0.01	-2.7	30.0
1-Chlorobutane	0.526	0.549	0.01	-4.4	30.0
trans-1,4-Dichloro-2-butene	0.072	0.087	0.01	-20.8	30.0
1,1-Dichloropropanone	0.618	0.704	0.01	-13.9	30.0
Diethyl Ether	0.151	0.158	0.01	-4.6	30.0
Ethyl Methacrylate	0.338	0.377	0.01	-11.5	30.0
Hexachloroethane	0.247	0.313	0.01	-26.7	30.0
Methacrylonitrile	0.062	0.069	0.01	-11.3	30.0

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Instrument ID: L

Calibration Date: 06/26/98

Time: 2226

Lab File ID: LMJ010A3HV

Init. Calib. Date(s): 06/26/98

06/26/98

Heated Purge: (Y/N) N

Init. Calib. Times: 1011

1243

GC Column: DB-624

ID: 0.53 (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
Methyl Acrylate	0.168	0.199	0.01	-18.4	30.0
Methyl Iodide	0.548	0.610	0.01	-11.3	30.0
Methyl Methacrylate	0.161	0.175	0.01	-8.7	30.0
Pentachloroethane	0.221	0.272	0.01	-23.1	30.0
Propionitrile	0.013	0.019	0.01	-46.2	30.0
1,2-Dichloroethane-d4	0.269	0.296	0.01	-10.0	30.0
Bromofluorobenzene	0.761	0.784	0.01	-3.0	30.0
1,2-Dichlorobenzene-d4	0.535	0.553	0.01	-3.4	30.0
Toluene-d8	0.833	0.884	0.01	-6.1	30.0

FORM 8  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69582

Lab File ID (Standard): LMJ010QV

Date Analyzed: 06/26/98

Instrument ID: L

Time Analyzed: 1351

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	123620	19.99	269950	8.62	203372	14.40
UPPER LIMIT	247240	20.49	539900	9.12	406744	14.90
LOWER LIMIT	61810	19.49	134975	8.12	101686	13.90
=====	=====	=====	=====	=====	=====	=====
CLIENT						
SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKD5	131673	20.00	282696	8.64	213538	14.41
02 AL801	126667	20.00	280509	8.64	210329	14.42
03 AL170	121044	20.00	265088	8.64	198695	14.41
04 AL171	131731	20.00	285341	8.65	214382	14.40
05 AL 72	117538	20.05	262939	8.69	194169	14.47
06 AL173	126770	20.05	267311	8.69	202793	14.47
07 AL174	125975	20.03	267047	8.65	208724	14.44
08 AL182	124780	20.00	274140	8.63	207184	14.40
09 AL183	125620	20.00	268879	8.62	203405	14.40
10 AL184	124950	20.00	269829	8.64	208941	14.41
11 AL178	126319	20.00	262536	8.65	201500	14.42
12 AL175	116083	20.00	253607	8.65	187506	14.42
13 AL176	122999	20.02	264044	8.69	203004	14.46
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: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69582  
 Lab File ID (Standard): LMJ010A3HV                      Date Analyzed: 06/26/98  
 Instrument ID: L    Time Analyzed: 2226  
 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	119573	20.00	250273	8.62	191942	14.42
UPPER LIMIT	239146	20.50	500546	9.12	383884	14.92
LOWER LIMIT	59786	19.50	125136	8.12	95971	13.92
=====	=====	=====	=====	=====	=====	=====
CLIENT SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKD7	121543	20.02	272737	8.63	196492	14.44
02 LMJA LCS	119888	20.04	256225	8.64	193823	14.42
03 AL176MS	119174	20.04	253207	8.64	193146	14.45
04 AL176MSD	123383	20.02	262323	8.64	194206	14.43
05 AL804	107772	20.02	231361	8.65	170505	14.44
06 AL177	103399	20.02	226081	8.65	171929	14.44
07 AL803	98417	20.02	205775	8.65	159582	14.44
08 AL802	100160	20.02	228152	8.65	166871	14.44
09 AL179	99658	20.02	221491	8.65	165306	14.44
10 AL180	100604	20.02	220842	8.65	164501	14.44
11 AL181	104784	20.02	229384	8.65	168234	14.44
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.

**2. Sample Delivery Group No. 69597**



# Intertek Testing Services

## Environmental Laboratories

### SAMPLE DATA SUMMARY PACKAGE

CONTRACT: 98011

CASE NO: 98011

SDG NO: 69597







# Intertek Testing Services Environmental Laboratories

July 10, 1998

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 69597

Dear Mr. Duchesneau:

Enclosed are the analytical results of samples received by ITS Environmental Laboratories on June 20, and 22, 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: 06/20/98 ETR No: 69597			
359491	AL185	06/19/98	Water
359492	AL185F	06/19/98	Filtrate
359493	AL186	06/19/98	Water
359494	AL186F	06/19/98	Filtrate
359495	AL187	06/19/98	Water
359496	AL187F	06/19/98	Filtrate

Received: 06/22/98 ETR No: 69599			
359498	AL188	06/20/98	Water
359499	AL188F	06/20/98	Filtrate
359500	AL805	06/20/98	Water
359501	AL805F	06/20/98	Filtrate
359502	AL806	06/20/98	Water
359503	AL807	06/20/98	Water
359504	AL807F	06/20/98	Filtrate
359505	AL189	06/20/98	Water
359506	AL189F	06/20/98	Filtrate
359507	AL190	06/20/98	Water
359507MS	AL190MS	06/20/98	Water
359507MD	AL190MSD	06/20/98	Water

Intertek Testing Services NA Inc.  
55 South Park Drive Colchester, VT 05446  
Telephone (802) 655-1203 Fax (802) 655-1248

001

Mr. Mike Duchesneau  
July 10, 1998  
Page 2

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 06/22/98 ETR No: 69599 (Continued)			
359508	AL190F	06/20/98	Filtrate
359509	AL191	06/20/98	Water
359510	AL191F	06/20/98	Filtrate

The volatile organic analysis of samples in this sample delivery group exhibited surrogate percent recoveries within quality control limits. Please note that the matrix spike analysis of samples labeled AL190MS, AL190MSD and the laboratory control sample labeled LLXD LCS exhibited acceptable recoveries of all target analytes.

The volatile organic continuing calibration analyzed on 27 June 1998 exhibited an increased response of bromomethane resulting in percent differences above method control limits.

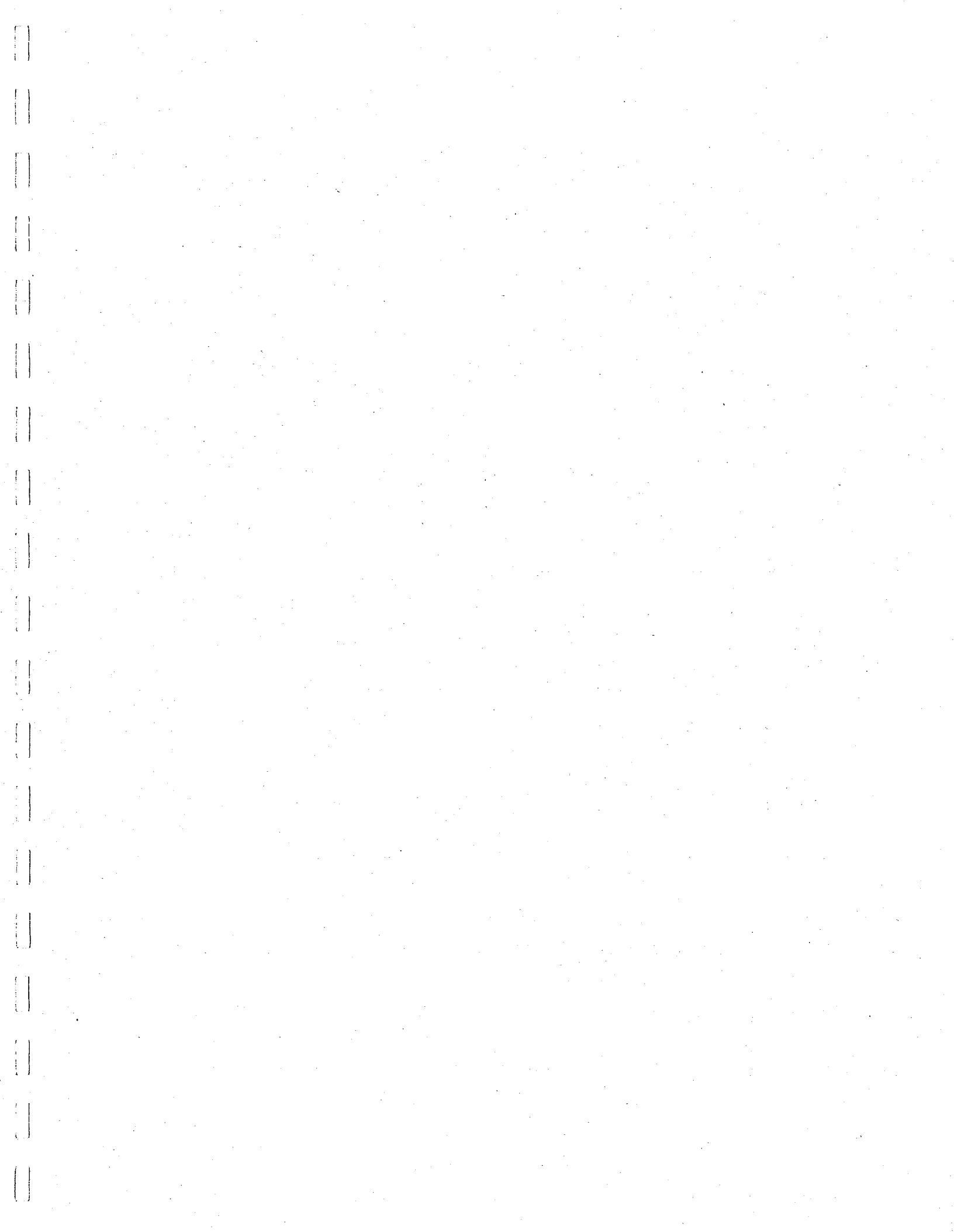
If there are any questions regarding this submittal, please contact Chris A. Ouellette at (802) 655-1203.

Sincerely,



Deborah A. Loring  
Laboratory Director

DAL/cga  
Enclosure







**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Date : 06/30/98  
ETR Number : 69597  
Project No.: 98011  
No. Samples: 7  
Arrived : 06/20/98  
P.O. Number: 73076930000

Attention : Mike Duchesneau

Page 1

Case:98011 SDG:69597 Ash Quarterly

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
359491	AL185:06/19/98 @1355(Water)	
310.1	Alkalinity (as CaCO3)	260
300.0	Chloride	125
300.0	Sulfate	202
353.2	Nitrate/Nitrite Nitrogen	0.35
359492	AL185F:06/19/98 @1355(Filtrate)	
9060	Total Organic Carbon	1.8
359493	AL186:06/19/98 @1500(Water)	
310.1	Alkalinity (as CaCO3)	300
300.0	Chloride	16.2
300.0	Sulfate	72.7
353.2	Nitrate/Nitrite Nitrogen	<0.01
359494	AL186F:06/19/98 @1500(Filtrate)	
9060	Total Organic Carbon	3.0
359495	AL187:06/19/98 @1545(Water)	
310.1	Alkalinity (as CaCO3)	220
300.0	Chloride	422
300.0	Sulfate	749
353.2	Nitrate/Nitrite Nitrogen	0.03
359496	AL187F:06/19/98 @1545(Filtrate)	
9060	Total Organic Carbon	7.6

< Last Page >

Submitted By :

Aquatec Inc.



**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Date : 06/30/98  
ETR Number : 69599  
Project No.: 98011  
No. Samples: 15  
Arrived : 06/22/98  
P.O. Number: 73076930000

Attention : Mike Duchesneau

Page 1

Case:98011 SDG:69597 Ash Quarterly

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
359498	AL188:06/20/98 @0945(Water)	
310.1	Alkalinity (as CaCO3)	440
300.0	Chloride	12.0
300.0	Sulfate	170
353.2	Nitrate/Nitrite Nitrogen	0.13
359499	AL188F:06/20/98 @0945(Filtrate)	
9060	Total Organic Carbon	4.9
359500	AL805:06/20/98 @0805(Water)	
310.1	Alkalinity (as CaCO3)	<1
300.0	Chloride	<0.1
300.0	Sulfate	<0.1
353.2	Nitrate/Nitrite Nitrogen	<0.01
359501	AL805F:06/20/98 @0805(Filtrate)	
9060	Total Organic Carbon	<0.5
359503	AL807:06/20/98 @1145(Water)	
310.1	Alkalinity (as CaCO3)	318
300.0	Chloride	17.8
300.0	Sulfate	123
353.2	Nitrate/Nitrite Nitrogen	0.62
359504	AL807F:06/20/98 @1145(Filtrate)	
9060	Total Organic Carbon	1.9
359505	AL189:06/20/98 @1045(Water)	
310.1	Alkalinity (as CaCO3)	318
300.0	Chloride	119

< Cont. Next Page >



**Analytical Report**

Parsons Engineering Science  
Attn: Accounts Payable  
30 Dan Road  
Canton, MA 02021

Date : 06/30/98  
ETR Number : 69599  
Project No.: 98011  
No. Samples: 15  
Arrived : 06/22/98  
P.O. Number: 73076930000

Attention : Mike Duchesneau

Page 2

Case:98011 SDG:69597 Ash Quarterly

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
359505	AL189:06/20/98 @1045(Water)	
300.0	Sulfate	394
353.2	Nitrate/Nitrite Nitrogen	0.07
359506	AL189F:06/20/98 @1045(Filtrate)	
9060	Total Organic Carbon	2.4
359507	AL190:06/20/98 @1145(Water)	
310.1	Alkalinity (as CaCO3)	318
300.0	Chloride	17.9
300.0	Sulfate	122
353.2	Nitrate/Nitrite Nitrogen	0.67
359508	AL190F:06/20/98 @1145(Filtrate)	
9060	Total Organic Carbon	2.0
359509	AL191:06/20/98 @1300(Water)	
310.1	Alkalinity (as CaCO3)	280
300.0	Chloride	24.8
300.0	Sulfate	126
353.2	Nitrate/Nitrite Nitrogen	0.40
359510	AL191F:06/20/98 @1300(Filtrate)	
9060	Total Organic Carbon	1.8

# WET CHEMISTRY

## Quality Control Summary

Project No: 98011  
 SDG No: 69597  
 Units: mg/L

Parameter	Date Analyzed	Method Preparation Blank	Laboratory Control Sample		
			Reported Value	True Value	Percent Recovery
Alkalinity (as CaCO <sub>3</sub> )	06/24/98	< 1	120	118	101.7
Chloride by IC	06/23/98	< 0.1	4.74	5.00	94.8
Chloride by IC	06/24/98	< 0.1	4.65	5.00	93.0
Nitrate/Nitrite-Nitrogen	06/25/98	< 0.01	6.70	7.32	91.5
Sulfate by IC	06/23/98	< 0.1	9.69	10.00	96.9
Sulfate by IC	06/24/98	< 0.1	9.52	10.00	95.2
Sulfate by IC	06/25/98	< 0.1	9.58	10.00	95.8
Total Organic Carbon	06/23/98	< 0.5	67.7	68.0	99.6

Reviewed By: MHE  
 Date: 6/30/98





1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL187

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

Matrix (soil/water): WATER Lab Sample ID: 359495

Level (low/med): LOW\_ Date Received: 06/20/98

% 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	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1380			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.3	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

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL188

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

Matrix (soil/water): WATER Lab Sample ID: 359498

Level (low/med): LOW\_ Date Received: 06/22/98

% 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	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	203			P
7439-97-6	Mercury				NR
7440-02-0	Nickel	4.0	B		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

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL190

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

Matrix (soil/water): WATER Lab Sample ID: 359507

Level (low/med): LOW\_ Date Received: 06/22/98

% 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	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2.9	B		P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.3	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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1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL805

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

Matrix (soil/water): WATER Lab Sample ID: 359500

Level (low/med): LOW\_ Date Received: 06/22/98

% 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	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	0.38	B		P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.3	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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1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AL807

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

Matrix (soil/water): WATER Lab Sample ID: 359503

Level (low/med): LOW\_ Date Received: 06/22/98

% 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	0.30	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	0.90	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.8	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2.1	B		P
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.3	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: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

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	473.90	94.8	100.0	97.01	97.0	97.44	97.4	P
Calcium									NR
Chromium	500.0	488.50	97.7	200.0	196.40	98.2	197.10	98.6	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	1000.0	976.60	97.7	400.0	390.60	97.6	390.30	97.6	P
Magnesium									NR
Manganese	500.0	485.70	97.1	200.0	194.80	97.4	194.70	97.4	P
Mercury									NR
Nickel	500.0	486.00	97.2	200.0	195.30	97.6	196.30	98.2	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

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ITS\_ENVIRONMENTAL \_\_\_\_\_ Contract: 98011 \_\_\_\_\_

Lab Code: INCHVT Case No.: 98011 SAS No.: \_\_\_\_\_ SDG No.: 69597 \_\_\_\_\_

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	98.92	98.9			P
Calcium									NR
Chromium				200.0	199.80	99.9			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				400.0	395.30	98.8			P
Magnesium									NR
Manganese				200.0	197.50	98.8			P
Mercury									NR
Nickel				200.0	198.40	99.2			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: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT

Case No.: 98011\_

SAS No.: \_\_\_\_\_

SDG No.: 69597\_

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	9.97	99.7	9.76	97.6
Calcium								
Chromium				20.0	22.51	112.6	22.70	113.5
Cobalt								
Copper								
Iron								
Lead				6.0	7.12	118.7	5.61	93.5
Magnesium								
Manganese				30.0	28.25	94.2	28.34	94.5
Mercury								
Nickel				80.0	78.10	97.6	79.30	99.1
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

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3  
BLANKS

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

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	0.3	U	0.3	U	0.3	U	0.3	U	0.300	U	P
Calcium											NR
Chromium	0.9	U	0.9	U	0.9	U	0.9	U	0.900	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.8	U	1.8	U	1.8	U	1.8	U	1.800	U	P
Magnesium											NR
Manganese	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	P
Mercury											NR
Nickel	1.3	U	1.3	U	1.3	U	1.3	U	1.300	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: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No: \_\_\_\_\_ SDG No.: 69597\_

ICP ID Number: ICP4 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	800	4	871.9	109.0	4	899.7	112.5
Calcium								
Chromium	0	422	3	458.6	108.7	3	475.1	112.6
Cobalt								
Copper								
Iron								
Lead	0	48	-1	47.9	99.8	-1	50.4	105.0
Magnesium								
Manganese	0	416	0	455.0	109.4	-1	469.3	112.8
Mercury								
Nickel	0	800	2	866.3	108.3	1	896.5	112.1
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

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LABORATORY CONTROL SAMPLE

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

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	487.90	92.9					
Calcium								
Chromium	500.0	492.70	98.5					
Cobalt								
Copper								
Iron								
Lead	1015.0	986.60	97.2					
Magnesium								
Manganese	500.0	488.10	97.6					
Mercury								
Nickel	500.0	492.90	98.6					
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								
Cyanide								

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10

Instrument Detection Limits (Quarterly)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

ICP ID Number: ICP4\_TJA\_61E Date: 04/16/98

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	0.3	P
Calcium			5000		NR
Chromium	267.72		10	0.9	P
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	220.35		3	1.8	P
Magnesium			5000		NR
Manganese	257.61		15	0.2	P
Mercury			0.2		NR
Nickel	231.60		40	1.3	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: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

ICP ID Number: ICP4 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		Al	Ca	Fe	Mg	CO_
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	-0.0000240	0.0000000	-0.0000130	0.0000000	-0.0002300
Arsenic	189.04	0.0000070	0.0000000	-0.0000480	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000050	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0001040	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	-0.0002350	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000070	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0834000
Lead	220.35	0.0006000	0.0000000	0.0000850	0.0000070	-0.0110300
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000190	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	-0.0014900
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000140	0.0000000	-0.0001500	0.0000000	0.0003870
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	-0.0000300	0.0000000	-0.0000430	0.0000000	0.0038460
Vanadium	292.40	0.0000000	0.0000000	0.0000240	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

ICP ID Number: ICP4 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :				
		CR_	MN_	NI_	PB_	V_
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.2032000
Antimony	206.84	0.0099100	0.0000000	-0.0006110	0.0000000	-0.0103400
Arsenic	189.04	0.0002760	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0003650	0.0000000	0.0000000	0.0005910
Cadmium	226.50	0.0000000	0.0000000	-0.0000410	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0001250	0.0000000	0.0000000	-0.0000960
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	-0.0003000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0002550	0.0000000	0.0002270	0.0000000	0.0000860
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001300	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.03	0.0000000	0.0001870	0.0000000	0.0000000	0.0001330
Silver	328.07	0.0000000	0.0000670	0.0000000	0.0000000	-0.0000970
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0003410	-0.0089400	0.0000000	0.0000320	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

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11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

ICP ID Number: ICP4 TJA 61E Date: 01/16/98

Analyte	Wave-length (nm)	Interelement Correction Factors for :			
		ZN_	_____	_____	_____
Aluminum	308.22	0.0000000			
Antimony	206.84	-0.0001690			
Arsenic	189.04	0.0000000			
Barium	493.41	0.0000000			
Beryllium	313.04	0.0000000			
Cadmium	226.50	0.0000000			
Calcium	317.93	0.0000000			
Chromium	267.72	0.0000000			
Cobalt	228.62	0.0000000			
Copper	324.75	0.0000000			
Iron	271.44	0.0000000			
Lead	220.35	0.0000000			
Magnesium	279.08	0.0000000			
Manganese	257.61	0.0000000			
Mercury					
Nickel	231.60	0.0000000			
Potassium	766.49	0.0000000			
Selenium	196.03	0.0000000			
Silver	328.07	0.0000000			
Sodium	330.23	0.0000000			
Thallium	190.86	0.0000000			
Vanadium	292.40	0.0000000			
Zinc	213.86	0.0000000			

Comments:

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ICP LINEAR RANGES (QUARTERLY)

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_ Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_ SAS No.: \_\_\_\_\_ SDG No.: 69597\_

ICP ID Number: ICP4 TJA 61E Date: 04/16/98

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	10000.0	P
Beryllium	10.00	5000.0	P
Cadmium	10.00	5000.0	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	10000.0	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	3000.0	P

Comments:

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14  
ANALYSIS RUN LOG

Lab Name: ITS\_ENVIRONMENTAL\_\_\_\_\_

Contract: 98011\_\_\_\_\_

Lab Code: INCHVT Case No.: 98011\_\_\_\_\_

SAS No.: \_\_\_\_\_ SDG No.: 69597\_\_\_\_\_

Instrument ID Number: ICP4 TJA 61E\_\_\_\_\_

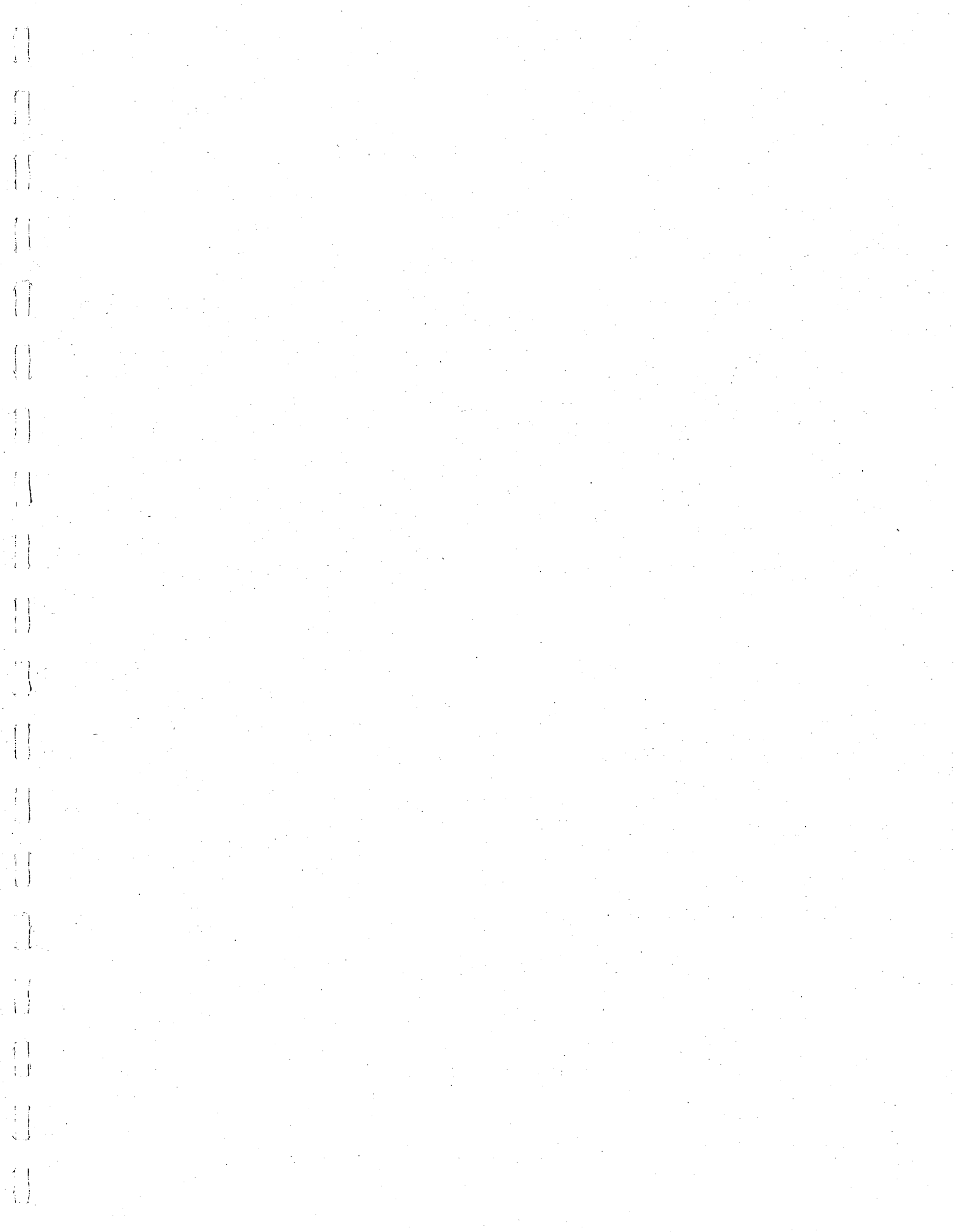
Method: P\_\_\_\_\_

Start Date: 06/24/98

End Date: 06/24/98

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	1522		X	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	1526					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
S	1.00	1531		X						X									X			X							
S	1.00	1535			X	X								X	X					X			X						
ICV	1.00	1541							X		X			X		X		X		X									
ICB	1.00	1547							X		X			X		X		X		X									
ICSA	1.00	1552							X		X			X		X		X		X									
ICSAB	1.00	1558							X		X			X		X		X		X									
CRI	1.00	1603							X		X			X		X		X		X									
CCV	1.00	1608							X		X			X		X		X		X									
CCB	1.00	1614							X		X			X		X		X		X									
ZZZZZZ	1.00	1619																											
ZZZZZZ	1.00	1624																											
ZZZZZZ	1.00	1630																											
ZZZZZZ	5.00	1635																											
PBW	1.00	1640							X		X			X		X		X		X									
LCSW	1.00	1645							X		X			X		X		X		X									
AL187	1.00	1651							X		X			X		X		X		X									
AL187L	5.00	1656							X		X			X		X		X		X									
AL188	1.00	1701							X		X			X		X		X		X									
AL805	1.00	1706							X		X			X		X		X		X									
CCV	1.00	1712							X		X			X		X		X		X									
CCB	1.00	1717							X		X			X		X		X		X									
AL807	1.00	1722							X		X			X		X		X		X									
AL190	1.00	1728							X		X			X		X		X		X									
ICSA	1.00	1733							X		X			X		X		X		X									
ICSAB	1.00	1738							X		X			X		X		X		X									
CRI	1.00	1744							X		X			X		X		X		X									
CCV	1.00	1749							X		X			X		X		X		X									
CCB	1.00	1754							X		X			X		X		X		X									

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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL185

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: 359491

Date Received: 06/20/98

Lab File ID: L359491V

Date Analyzed: 06/27/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (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	3.2	J
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	5.5	
156-60-5	trans-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	0.46	J
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	1.1	
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
71-43-2	Benzene	0.27	J
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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL185

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359491                                      Date Received: 06/20/98

Lab File ID: L359491V                                      Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL186

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 69597  
 Lab Sample ID: 359493 Date Received: 06/20/98  
 Lab File ID: L359493V Date Analyzed: 06/27/98  
 Purge Volume: 5 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	0.52	J
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	0.21	J
75-34-3	1,1-Dichloroethane	1.0	U
156-59-2	cis-1,2-Dichloroethene	95	E
156-60-5	trans-1,2-Dichloroethene	3.6	
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	35	E
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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL186

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359493                                      Date Received: 06/20/98

Lab File ID: L359493V                                      Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL186DL

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: 359493DL

Date Received: 06/20/98

Lab File ID: L359493I2DV

Date Analyzed: 06/28/98

Purge Volume: 5 (mL)

Dilution Factor: 4.7

GC Column: DB-624

ID: 0.53

(mm)

Length: 75

(m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	4.7	U
74-83-9	-----Bromomethane	4.7	U
75-01-4	-----Vinyl Chloride	4.7	U
75-00-3	-----Chloroethane	4.7	U
75-09-2	-----Methylene Chloride	9.5	U
67-64-1	-----Acetone	7.4	DJB
75-15-0	-----Carbon Disulfide	4.7	U
75-35-4	-----1,1-Dichloroethene	4.7	U
75-34-3	-----1,1-Dichloroethane	4.7	U
156-59-2	-----cis-1,2-Dichloroethene	89	D
156-60-5	-----trans-1,2-Dichloroethene	3.0	DJ
67-66-3	-----Chloroform	4.7	U
107-06-2	-----1,2-Dichloroethane	4.7	U
78-93-3	-----2-Butanone	24	U
74-97-5	-----Bromochloromethane	4.7	U
71-55-6	-----1,1,1-Trichloroethane	4.7	U
56-23-5	-----Carbon Tetrachloride	4.7	U
75-27-4	-----Bromodichloromethane	4.7	U
78-87-5	-----1,2-Dichloropropane	4.7	U
10061-01-5	-----cis-1,3-Dichloropropene	4.7	U
79-01-6	-----Trichloroethene	34	D
124-48-1	-----Dibromochloromethane	4.7	U
79-00-5	-----1,1,2-Trichloroethane	4.7	U
71-43-2	-----Benzene	4.7	U
10061-02-6	-----trans-1,3-Dichloropropene	4.7	U
75-25-2	-----Bromoform	4.7	U
108-10-1	-----4-Methyl-2-Pentanone	24	U
591-78-6	-----2-Hexanone	24	U
127-18-4	-----Tetrachloroethene	4.7	U
79-34-5	-----1,1,2,2-Tetrachloroethane	4.7	U
106-93-4	-----1,2-Dibromoethane	4.7	U
108-88-3	-----Toluene	4.7	U
108-90-7	-----Chlorobenzene	4.7	U
100-41-4	-----Ethylbenzene	4.7	U
100-42-5	-----Styrene	4.7	U
1330-20-7	-----Xylene (total)	4.7	U
541-73-1	-----1,3-Dichlorobenzene	4.7	U
106-46-7	-----1,4-Dichlorobenzene	4.7	U
95-50-1	-----1,2-Dichlorobenzene	4.7	U
96-12-8	-----1,2-Dibromo-3-chloropropane	4.7	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL186DL

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: 359493DL

Date Received: 06/20/98

Lab File ID: L359493I2DV

Date Analyzed: 06/28/98

Purge Volume: 5 (mL)

Dilution Factor: 4.7

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL187

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT    Case No.: 98011    SAS No.:                      SDG No.: 69597

Lab Sample ID: 359495                              Date Received: 06/20/98

Lab File ID: L359495DV                            Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                      Dilution Factor: 46.8

GC Column: DB-624    ID: 0.53 (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	47	U
74-83-9	Bromomethane	47	U
75-01-4	Vinyl Chloride	380	
75-00-3	Chloroethane	47	U
75-09-2	Methylene Chloride	94	U
67-64-1	Acetone	230	U
75-15-0	Carbon Disulfide	47	U
75-35-4	1,1-Dichloroethene	47	U
75-34-3	1,1-Dichloroethane	12	J
156-59-2	cis-1,2-Dichloroethene	1100	
156-60-5	trans-1,2-Dichloroethene	47	U
67-66-3	Chloroform	47	U
107-06-2	1,2-Dichloroethane	47	U
78-93-3	2-Butanone	230	U
74-97-5	Bromochloromethane	47	U
71-55-6	1,1,1-Trichloroethane	47	U
56-23-5	Carbon Tetrachloride	47	U
75-27-4	Bromodichloromethane	47	U
78-87-5	1,2-Dichloropropane	47	U
10061-01-5	cis-1,3-Dichloropropene	47	U
79-01-6	Trichloroethene	22	J
124-48-1	Dibromochloromethane	47	U
79-00-5	1,1,2-Trichloroethane	47	U
71-43-2	Benzene	47	U
10061-02-6	trans-1,3-Dichloropropene	47	U
75-25-2	Bromoform	47	U
108-10-1	4-Methyl-2-Pentanone	230	U
591-78-6	2-Hexanone	230	U
127-18-4	Tetrachloroethene	47	U
79-34-5	1,1,2,2-Tetrachloroethane	47	U
106-93-4	1,2-Dibromoethane	47	U
108-88-3	Toluene	47	U
108-90-7	Chlorobenzene	47	U
100-41-4	Ethylbenzene	47	U
100-42-5	Styrene	47	U
1330-20-7	Xylene (total)	47	U
541-73-1	1,3-Dichlorobenzene	47	U
106-46-7	1,4-Dichlorobenzene	47	U
95-50-1	1,2-Dichlorobenzene	47	U
96-12-8	1,2-Dibromo-3-chloropropane	47	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL187
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Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: 359495

Date Received: 06/20/98

Lab File ID: L359495DV

Date Analyzed: 06/27/98

Purge Volume: 5 (mL)

Dilution Factor: 46.8

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL188

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359498                              Date Received: 06/22/98

Lab File ID: L359498DV                              Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                              Dilution Factor: 29.3

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	29	U
74-83-9	-----Bromomethane	29	U
75-01-4	-----Vinyl Chloride	29	U
75-00-3	-----Chloroethane	29	U
75-09-2	-----Methylene Chloride	59	U
67-64-1	-----Acetone	50	J
75-15-0	-----Carbon Disulfide	29	U
75-35-4	-----1,1-Dichloroethene	29	U
75-34-3	-----1,1-Dichloroethane	29	U
156-59-2	-----cis-1,2-Dichloroethene	16	J
156-60-5	-----trans-1,2-Dichloroethene	29	U
67-66-3	-----Chloroform	14	J
107-06-2	-----1,2-Dichloroethane	29	U
78-93-3	-----2-Butanone	150	U
74-97-5	-----Bromochloromethane	29	U
71-55-6	-----1,1,1-Trichloroethane	29	U
56-23-5	-----Carbon Tetrachloride	29	U
75-27-4	-----Bromodichloromethane	29	U
78-87-5	-----1,2-Dichloropropane	29	U
10061-01-5	-----cis-1,3-Dichloropropene	29	U
79-01-6	-----Trichloroethene	520	U
124-48-1	-----Dibromochloromethane	29	U
79-00-5	-----1,1,2-Trichloroethane	29	U
71-43-2	-----Benzene	29	U
10061-02-6	-----trans-1,3-Dichloropropene	29	U
75-25-2	-----Bromoform	29	U
108-10-1	-----4-Methyl-2-Pentanone	150	U
591-78-6	-----2-Hexanone	150	U
127-18-4	-----Tetrachloroethene	29	U
79-34-5	-----1,1,2,2-Tetrachloroethane	29	U
106-93-4	-----1,2-Dibromoethane	29	U
108-88-3	-----Toluene	29	U
108-90-7	-----Chlorobenzene	29	U
100-41-4	-----Ethylbenzene	29	U
100-42-5	-----Styrene	29	U
1330-20-7	-----Xylene (total)	29	U
541-73-1	-----1,3-Dichlorobenzene	29	U
106-46-7	-----1,4-Dichlorobenzene	29	U
95-50-1	-----1,2-Dichlorobenzene	29	U
96-12-8	-----1,2-Dibromo-3-chloropropane	29	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL188

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359498                                      Date Received: 06/22/98

Lab File ID: L359498DV                                      Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                      Dilution Factor: 29.3

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL805

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: 359500

Date Received: 06/22/98

Lab File ID: L359500V

Date Analyzed: 06/27/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	0.43	J
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	0.29	J
67-64-1	Acetone	3.1	J
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	0.36	J
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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL805

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: 359500

Date Received: 06/22/98

Lab File ID: L359500V

Date Analyzed: 06/27/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL806

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359502                              Date Received: 06/22/98

Lab File ID: L359502V                              Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (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	2.9	J
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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL806

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: 359502

Date Received: 06/22/98

Lab File ID: L359502V

Date Analyzed: 06/27/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL807

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359503                              Date Received: 06/22/98

Lab File ID: L359503V                              Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (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	2.2	J
75-15-0	-----Carbon Disulfide	1.0	U
75-35-4	-----1,1-Dichloroethene	1.0	U
75-34-3	-----1,1-Dichloroethane	0.63	J
156-59-2	-----cis-1,2-Dichloroethene	100	E
156-60-5	-----trans-1,2-Dichloroethene	0.80	J
67-66-3	-----Chloroform	1.0	U
107-06-2	-----1,2-Dichloroethane	0.62	J
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	3.7	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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL807

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359503                                      Date Received: 06/22/98

Lab File ID: L359503V                                      Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL807DL

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359503DL                      Date Received: 06/22/98

Lab File ID: L359503I2DV                      Date Analyzed: 06/28/98

Purge Volume: 5                      (mL)                      Dilution Factor: 4.9

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	4.9	U
74-83-9	-----Bromomethane	4.9	U
75-01-4	-----Vinyl Chloride	4.9	U
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	4.9	U
156-59-2	-----cis-1,2-Dichloroethene	110	D
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	3.8	DJ
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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL807DL

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597  
 Lab Sample ID: 359503DL                              Date Received: 06/22/98  
 Lab File ID: L359503I2DV                              Date Analyzed: 06/28/98  
 Purge Volume: 5                      (mL)                              Dilution Factor: 4.9  
 GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL189

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 69597  
 Lab Sample ID: 359505 Date Received: 06/22/98  
 Lab File ID: L359505DV Date Analyzed: 06/27/98  
 Purge Volume: 5 (mL) Dilution Factor: 73.3  
 GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	73	U
74-83-9	Bromomethane	73	U
75-01-4	Vinyl Chloride	33	J
75-00-3	Chloroethane	17	J
75-09-2	Methylene Chloride	150	U
67-64-1	Acetone	370	U
75-15-0	Carbon Disulfide	73	U
75-35-4	1,1-Dichloroethene	73	U
75-34-3	1,1-Dichloroethane	73	U
156-59-2	cis-1,2-Dichloroethene	1300	
156-60-5	trans-1,2-Dichloroethene	73	U
67-66-3	Chloroform	73	U
107-06-2	1,2-Dichloroethane	73	U
78-93-3	2-Butanone	370	U
74-97-5	Bromochloromethane	73	U
71-55-6	1,1,1-Trichloroethane	73	U
56-23-5	Carbon Tetrachloride	73	U
75-27-4	Bromodichloromethane	73	U
78-87-5	1,2-Dichloropropane	73	U
10061-01-5	cis-1,3-Dichloropropene	73	U
79-01-6	Trichloroethene	1200	
124-48-1	Dibromochloromethane	73	U
79-00-5	1,1,2-Trichloroethane	73	U
71-43-2	Benzene	73	U
10061-02-6	trans-1,3-Dichloropropene	73	U
75-25-2	Bromoform	73	U
108-10-1	4-Methyl-2-Pentanone	370	U
591-78-6	2-Hexanone	370	U
127-18-4	Tetrachloroethene	73	U
79-34-5	1,1,2,2-Tetrachloroethane	73	U
106-93-4	1,2-Dibromoethane	73	U
108-88-3	Toluene	73	U
108-90-7	Chlorobenzene	73	U
100-41-4	Ethylbenzene	73	U
100-42-5	Styrene	73	U
1330-20-7	Xylene (total)	73	U
541-73-1	1,3-Dichlorobenzene	73	U
106-46-7	1,4-Dichlorobenzene	73	U
95-50-1	1,2-Dichlorobenzene	73	U
96-12-8	1,2-Dibromo-3-chloropropane	73	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL189

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359505                                      Date Received: 06/22/98

Lab File ID: L359505DV                                      Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                                      Dilution Factor: 73.3

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL190

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359507                                      Date Received: 06/22/98

Lab File ID: L359507V                                      Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (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	2.2	J
75-15-0	-----Carbon Disulfide	1.0	U
75-35-4	-----1,1-Dichloroethene	1.0	U
75-34-3	-----1,1-Dichloroethane	0.61	J
156-59-2	-----cis-1,2-Dichloroethene	100	E
156-60-5	-----trans-1,2-Dichloroethene	0.67	J
67-66-3	-----Chloroform	1.0	U
107-06-2	-----1,2-Dichloroethane	0.58	J
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	0.21	J
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	3.6	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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL190
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Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: 359507

Date Received: 06/22/98

Lab File ID: L359507V

Date Analyzed: 06/27/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL190DL

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359507DL                              Date Received: 06/22/98

Lab File ID: L359507D2V                              Date Analyzed: 06/28/98

Purge Volume: 5                      (mL)                      Dilution Factor: 4.9

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	4.9	U
74-83-9	-----Bromomethane	4.9	U
75-01-4	-----Vinyl Chloride	4.9	U
75-00-3	-----Chloroethane	4.9	U
75-09-2	-----Methylene Chloride	9.8	U
67-64-1	-----Acetone	5.9	DJB
75-15-0	-----Carbon Disulfide	4.9	U
75-35-4	-----1,1-Dichloroethene	4.9	U
75-34-3	-----1,1-Dichloroethane	4.9	U
156-59-2	-----cis-1,2-Dichloroethene	100	D
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	3.8	DJ
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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL190DL

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359507DL                                      Date Received: 06/22/98

Lab File ID: L359507D2V                                      Date Analyzed: 06/28/98

Purge Volume: 5                      (mL)                                      Dilution Factor: 4.9

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL191

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: 359509

Date Received: 06/22/98

Lab File ID: L359509V

Date Analyzed: 06/27/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (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	1.9	J
75-15-0	Carbon Disulfide	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	0.77	J
156-59-2	cis-1,2-Dichloroethene	130	E
156-60-5	trans-1,2-Dichloroethene	1.3	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	8.3	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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL191
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Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: 359509

Date Received: 06/22/98

Lab File ID: L359509V

Date Analyzed: 06/27/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL191DL

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359509DL                              Date Received: 06/22/98

Lab File ID: L359509D2V                              Date Analyzed: 06/28/98

Purge Volume: 5                      (mL)                              Dilution Factor: 6.5

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	-----Chloromethane	6.5	U
74-83-9	-----Bromomethane	6.5	U
75-01-4	-----Vinyl Chloride	6.5	U
75-00-3	-----Chloroethane	6.5	U
75-09-2	-----Methylene Chloride	13	U
67-64-1	-----Acetone	7.2	DJB
75-15-0	-----Carbon Disulfide	6.5	U
75-35-4	-----1,1-Dichloroethene	6.5	U
75-34-3	-----1,1-Dichloroethane	6.5	U
156-59-2	-----cis-1,2-Dichloroethene	130	D
156-60-5	-----trans-1,2-Dichloroethene	6.5	U
67-66-3	-----Chloroform	6.5	U
107-06-2	-----1,2-Dichloroethane	6.5	U
78-93-3	-----2-Butanone	32	U
74-97-5	-----Bromochloromethane	6.5	U
71-55-6	-----1,1,1-Trichloroethane	6.5	U
56-23-5	-----Carbon Tetrachloride	6.5	U
75-27-4	-----Bromodichloromethane	6.5	U
78-87-5	-----1,2-Dichloropropane	6.5	U
10061-01-5	-----cis-1,3-Dichloropropene	6.5	U
79-01-6	-----Trichloroethene	8.2	D
124-48-1	-----Dibromochloromethane	6.5	U
79-00-5	-----1,1,2-Trichloroethane	6.5	U
71-43-2	-----Benzene	6.5	U
10061-02-6	-----trans-1,3-Dichloropropene	6.5	U
75-25-2	-----Bromoform	6.5	U
108-10-1	-----4-Methyl-2-Pentanone	32	U
591-78-6	-----2-Hexanone	32	U
127-18-4	-----Tetrachloroethene	6.5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	6.5	U
106-93-4	-----1,2-Dibromoethane	6.5	U
108-88-3	-----Toluene	6.5	U
108-90-7	-----Chlorobenzene	6.5	U
100-41-4	-----Ethylbenzene	6.5	U
100-42-5	-----Styrene	6.5	U
1330-20-7	-----Xylene (total)	6.5	U
541-73-1	-----1,3-Dichlorobenzene	6.5	U
106-46-7	-----1,4-Dichlorobenzene	6.5	U
95-50-1	-----1,2-Dichlorobenzene	6.5	U
96-12-8	-----1,2-Dibromo-3-chloropropane	6.5	U

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AL191DL

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359509DL                                      Date Received: 06/22/98

Lab File ID: L359509D2V                                      Date Analyzed: 06/28/98

Purge Volume: 5                      (mL)                                      Dilution Factor: 6.5

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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2LCA  
 LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

	EPA SAMPLE NO.	SMC1 %REC #	OTHER	TOT OUT
	=====	=====	=====	=====
01	VBLKD8	102		0
02	LLXD LCS	106		0
03	AL185	100		0
04	AL186	102		0
05	AL187	98		0
06	AL188	104		0
07	AL805	104		0
08	AL806	104		0
09	AL807	102		0
10	AL189	104		0
11	AL190	102		0
12	AL190MS	102		0
13	AL190MSD	104		0
14	AL191	102		0
15	VBLKD9	92		0
16	LLXE LCS	96		0
17	AL186DL	90		0
18	AL807DL	96		0
19	AL190DL	94		0
20	AL191DL	92		0
21	VIBLK01	94		0
22	VSBLK02	90		0
23				
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QC LIMITS  
 %REC  
 (80-120)

SMC1 = 4-Bromofluorobenzene

# Column to be used to flag recovery values.  
 \* Values outside of contract required QC limits.

FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Matrix Spike - ENGSC2 Sample No.: AL190

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Vinyl Chloride	5.0	0.0	6.5	130	60-140
1,2-Dichloroethane	5.0	0.58	5.5	98	60-140
Carbon Tetrachloride	5.0	0.21	4.9	94	60-140
1,2-Dichloropropane	5.0	0.0	5.1	102	60-140
cis-1,3-Dichloropropene	5.0	0.0	4.3	86	60-140
Trichloroethene	5.0	3.6	8.7	102	60-140
1,1,2-Trichloroethane	5.0	0.0	4.8	96	60-140
Benzene	5.0	0.0	5.0	100	60-140
Bromoform	5.0	0.0	4.0	80	60-140
Tetrachloroethene	5.0	0.0	5.1	102	60-140
1,2-Dibromoethane	5.0	0.0	4.9	98	60-140
1,4-Dichlorobenzene	5.0	0.0	4.9	98	60-140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Vinyl Chloride	5.0	6.7	134	3	20	60-140
1,2-Dichloroethane	5.0	5.6	100	2	20	60-140
Carbon Tetrachloride	5.0	5.1	98	4	20	60-140
1,2-Dichloropropane	5.0	5.2	104	2	20	60-140
cis-1,3-Dichloropropene	5.0	4.4	88	2	20	60-140
Trichloroethene	5.0	8.7	102	0	20	60-140
1,1,2-Trichloroethane	5.0	5.1	102	6	20	60-140
Benzene	5.0	5.2	104	4	20	60-140
Bromoform	5.0	4.1	82	2	20	60-140
Tetrachloroethene	5.0	5.3	106	4	20	60-140
1,2-Dibromoethane	5.0	5.0	100	2	20	60-140
1,4-Dichlorobenzene	5.0	5.0	100	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:

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3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LLXD LCS

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: LLXD LCS

LCS Lot No.:

Lab File ID: LLX005D2QV

Date Analyzed: 06/27/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

LCS Aliquot: 0 (uL)

COMPOUND	CONC ADDED (ug/L)	CONC RECOVERED (ug/L)	%REC #	QC LIMITS
Vinyl Chloride	5.0	6.6	132	60-140
1,2-Dichloroethane	5.0	5.0	100	60-140
Carbon Tetrachloride	5.0	4.9	98	60-140
1,2-Dichloropropane	5.0	5.1	102	60-140
cis-1,3-Dichloropropene	5.0	4.7	94	60-140
Trichloroethene	5.0	5.1	102	60-140
1,1,2-Trichloroethane	5.0	5.0	100	60-140
Benzene	5.0	5.0	100	60-140
Bromofonn	5.0	4.6	92	60-140
Tetrachloroethene	5.0	5.2	104	60-140
1,2-Dibromoethane	5.0	5.0	100	60-140
1,4-Dichlorobenzene	5.0	4.8	96	60-140

# Column to be used to flag LCS recovery with an asterisk.  
 \* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: \_\_\_\_\_

3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

LLXE LCS

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597  
 Lab Sample ID: LLXE LCS                                      LCS Lot No.:  
 Lab File ID: LLX005EQV                                      Date Analyzed: 06/28/98  
 Purge Volume: 5                      (mL)                                      Dilution Factor: 1.0  
 LCS Aliquot: 0                      (uL)

COMPOUND	CONC ADDED (ug/L)	CONC RECOVERED (ug/L)	%REC #	QC LIMITS
Vinyl Chloride	5.0	6.4	128	60-140
1,2-Dichloroethane	5.0	4.7	94	60-140
Carbon Tetrachloride	5.0	4.6	92	60-140
1,2-Dichloropropane	5.0	4.6	92	60-140
cis-1,3-Dichloropropene	5.0	4.5	90	60-140
Trichloroethene	5.0	4.9	98	60-140
1,1,2-Trichloroethane	5.0	4.7	94	60-140
Benzene	5.0	4.8	96	60-140
Bromofornal	5.0	5.2	104	60-140
Tetrachloroethene	5.0	5.0	100	60-140
1,2-Dibromoethane	5.0	4.9	98	60-140
1,4-Dichlorobenzene	5.0	4.3	86	60-140

# Column to be used to flag LCS recovery with an asterisk.  
 \* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

4LCA  
LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKD8

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: VBLKD8

Date Analyzed: 06/27/98

Lab File ID: LIX005DQV

Time Analyzed: 1425

Instrument ID: L

GC Column: DB-624

ID: 0.53 (mm)

Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LLXD LCS	LLXD LCS	LIX005D2QV	1447
02	AL185	359491	L359491V	1512
03	AL186	359493	L359493V	1544
04	AL187	359495	L359495DV	1607
05	AL188	359498	L359498DV	1630
06	AL805	359500	L359500V	1653
07	AL806	359502	L359502V	1716
08	AL807	359503	L359503V	1739
09	AL189	359505	L359505DV	1802
10	AL190	359507	L359507V	1825
11	AL190MS	359507MS	L359507MSV	1848
12	AL190MSD	359507MD	L359507MDV	1911
13	AL191	359509	L359509V	1934
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COMMENTS: \_\_\_\_\_  
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4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKD9

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597  
 Lab Sample ID: VBLKD9                                      Date Analyzed: 06/28/98  
 Lab File ID: LLXBO01EV                                      Time Analyzed: 1546  
 Instrument ID: L  
 GC Column: DB-624      ID: 0.53 (mm)                      Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LLXE LCS	LLXE LCS	LLX005EQV	1608
02	AL186DL	359493DL	L359493I2DV	1648
03	AL807DL	359503DL	L359503I2DV	1722
04	AL190DL	359507DL	L359507D2V	1745
05	AL191DL	359509DL	L359509D2V	1808
06	VIBLK01	VIBLK01	LLXB002EV	1831
07	VSBLK02	VSBLK02	L359497V	1853
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COMMENTS: \_\_\_\_\_  
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5LCA  
 LOW CONC. WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
 BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597  
 Lab File ID: LLX002PV                              BFB Injection Date: 04/17/98  
 Instrument ID: L                                      BFB Injection Time: 0954  
 GC Column: DB-624      ID: 0.53 (mm) Length: 0 (m)

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	46.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.4 ( 0.5)1
174	50.0 - 120.0% of mass 95	72.1
175	5.0 - 9.0% of mass 174	5.3 ( 7.4)1
176	95.0 - 101.0% of mass 174	69.0 ( 95.7)1
177	5.0 - 9.0% of mass 176	4.6 ( 6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, LES, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001	VSTD001	LLX001HV	04/17/98	1036
02	VSTD002	VSTD002	LLX002HV	04/17/98	1059
03	VSTD005	VSTD005	LLX005HV	04/17/98	1122
04	VSTD010	VSTD010	LLX010HV	04/17/98	1146
05	VSTD025	VSTD025	LLX025HV	04/17/98	1209
06					
07					
08					
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5LCA  
 LOW CONC. WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
 BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597  
 Lab File ID: LLX007PV                              BFB Injection Date: 06/27/98  
 Instrument ID: L                                      BFB Injection Time: 1334  
 GC Column: DB-624      ID: 0.53 (mm) Length: 0 (m)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	46.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 ( 0.0)1
174	50.0 - 120.0% of mass 95	70.3
175	5.0 - 9.0% of mass 174	4.8 ( 6.8)1
176	95.0 - 101.0% of mass 174	67.2 ( 95.5)1
177	5.0 - 9.0% of mass 176	4.2 ( 6.2)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, LES, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	LLX005DHV	06/27/98	1343
02	VBLKD8	VBLKD8	LLX005DQV	06/27/98	1425
03	LLXD LCS	LLXD LCS	LLX005D2QV	06/27/98	1447
04	AL185	359491	L359491V	06/27/98	1512
05	AL186	359493	L359493V	06/27/98	1544
06	AL187	359495	L359495DV	06/27/98	1607
07	AL188	359498	L359498DV	06/27/98	1630
08	AL805	359500	L359500V	06/27/98	1653
09	AL806	359502	L359502V	06/27/98	1716
10	AL807	359503	L359503V	06/27/98	1739
11	AL189	359505	L359505DV	06/27/98	1802
12	AL190	359507	L359507V	06/27/98	1825
13	AL190MS	359507MS	L359507MSV	06/27/98	1848
14	AL190MSD	359507MD	L359507MDV	06/27/98	1911
15	AL191	359509	L359509V	06/27/98	1934
16					
17					
18					
19					
20					
21					
22					

5LCA  
 LOW CONC. WATER VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
 BROMOFLUOROBENZENE (BFB)

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597  
 Lab File ID: LLX008PV                              BFB Injection Date: 06/28/98  
 Instrument ID: L                                      BFB Injection Time: 1451  
 GC Column: DB-624      ID: 0.53 (mm) Length: 0 (m)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.7
75	30.0 - 60.0% of mass 95	45.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 ( 0.4)1
174	50.0 - 120.0% of mass 95	66.2
175	5.0 - 9.0% of mass 174	4.4 ( 6.7)1
176	95.0 - 101.0% of mass 174	63.4 ( 95.8)1
177	5.0 - 9.0% of mass 176	4.2 ( 6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, LCS, LES, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD005	VSTD005	LLX005EHV	06/28/98	1512
02	VBLKD9	VBLKD9	LLXB001EV	06/28/98	1546
03	LLXE LCS	LLXE LCS	LLX005EQV	06/28/98	1608
04	AL186DL	359493DL	L359493I2DV	06/28/98	1648
05	AL807DL	359503DL	L359503I2DV	06/28/98	1722
06	AL190DL	359507DL	L359507D2V	06/28/98	1745
07	AL191DL	359509DL	L359509D2V	06/28/98	1808
08	VIBLK01	VIBLK01	LLXB002EV	06/28/98	1831
09	VSBLK02	VSBLK02	L359497V	06/28/98	1853
10					
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6LCA  
LOW CONC. WATER VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Instrument ID: L

Calibration Date(s): 04/17/98 04/17/98

Calibration Time(s): 1036 1209

GC Column: DB-624

ID: 0.53 (mm)

LAB FILE ID:	RRF1 =LLX001HV	RRF2 =LLX002HV					
RRF5 =LLX005HV	RRF10 =LLX010HV	RRF25 =LLX025HV					
COMPOUND	RRF1	RRF2	RRF5	RRF10	RRF25	RRF	% RSD
Chloromethane	* 0.313	0.295	0.278	0.280	0.276	0.288	5.4*
Bromomethane	* 0.296	0.289	0.264	0.253	0.229	0.266	10.2*
Vinyl Chloride	* 0.318	0.328	0.338	0.319	0.321	0.325	2.6*
Chloroethane	* 0.222	0.207	0.205	0.192	0.166	0.198	10.5*
Methylene Chloride	* 0.362	0.338	0.325	0.326	0.310	0.332	5.8*
Acetone	* 0.056	0.052	0.047	0.049	0.045	0.050	8.7*
Carbon Disulfide	* 0.960	0.955	0.968	0.960	0.937	0.956	1.2*
1,1-Dichloroethene	* 0.314	0.304	0.308	0.305	0.293	0.305	2.6*
1,1-Dichloroethane	* 0.650	0.635	0.606	0.593	0.559	0.609	5.9*
cis-1,2-Dichloroethene	* 0.348	0.361	0.348	0.347	0.335	0.348	2.7*
trans-1,2-Dichloroethene	* 0.382	0.364	0.368	0.362	0.345	0.364	3.6*
Chloroform	* 0.816	0.786	0.749	0.724	0.685	0.752	6.8*
1,2-Dichloroethane	* 0.448	0.452	0.451	0.433	0.404	0.438	4.7*
2-Butanone	* 0.097	0.096	0.096	0.096	0.090	0.095	2.9*
Bromochloromethane	* 0.215	0.228	0.218	0.216	0.206	0.217	3.6*
1,1,1-Trichloroethane	* 0.766	0.739	0.735	0.733	0.688	0.732	3.8*
Carbon Tetrachloride	* 0.723	0.690	0.697	0.697	0.666	0.695	2.9*
Bromodichloromethane	* 0.791	0.788	0.788	0.795	0.750	0.782	2.3*
1,2-Dichloropropane	* 0.460	0.452	0.441	0.434	0.400	0.437	5.3*
cis-1,3-Dichloropropene	* 0.670	0.659	0.666	0.687	0.656	0.668	1.8*
Trichloroethene	* 0.528	0.491	0.490	0.483	0.447	0.488	5.9*
Dibromochloromethane	* 0.619	0.618	0.645	0.666	0.648	0.639	3.2*
1,1,2-Trichloroethane	* 0.376	0.394	0.385	0.374	0.360	0.378	3.4*
Benzene	* 1.363	1.280	1.257	1.251	1.170	1.264	5.5*
trans-1,3-Dichloropropene	* 0.553	0.538	0.585	0.591	0.569	0.567	3.9*
Bromoform	* 0.388	0.418	0.445	0.470	0.461	0.436	7.7*
4-Methyl-2-Pentanone	* 0.270	0.287	0.282	0.286	0.271	0.279	3.0*
2-Hexanone	* 0.144	0.154	0.164	0.176	0.174	0.162	8.1*
Tetrachloroethene	* 0.644	0.640	0.617	0.621	0.594	0.623	3.2*
1,1,2,2-Tetrachloroethane	* 0.632	0.618	0.632	0.623	0.588	0.619	2.9*
1,2-Dibromoethane	* 0.552	0.549	0.534	0.539	0.518	0.538	2.5*
Toluene	* 1.373	1.320	1.322	1.318	1.227	1.312	4.0*
Chlorobenzene	* 1.006	0.965	0.950	0.939	0.895	0.951	4.3*
Ethylbenzene	* 1.682	1.633	1.654	1.691	1.547	1.641	3.5*
Styrene	* 0.903	0.910	0.955	0.950	0.910	0.926	2.7*
Xylene (total)	* 0.578	0.564	0.578	0.577	0.551	0.570	2.1*
1,3-Dichlorobenzene	* 1.663	1.563	1.492	1.510	1.457	1.537	5.2*
1,4-Dichlorobenzene	* 1.808	1.681	1.765	1.698	1.614	1.713	4.4*
1,2-Dichlorobenzene	* 1.544	1.424	1.464	1.428	1.375	1.447	4.3*
1,2-Dibromo-3-chloropropane	* 0.229	0.180	0.202	0.203	0.197	0.202	8.6*
4-Bromofluorobenzene	* 0.440	0.404	0.430	0.427	0.420	0.424	3.2*

\* Compounds with required minimum RRF and maximum %RSD values.

@ These compounds must meet only a minimum RRF of 0.010.

# These compounds have no minimum RRF and maximum %RSD values.

## LOW CONC. WATER VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Instrument ID: L

Calibration Date: 06/27/98

Time: 1343

Lab File ID: LLX005DHV

Init. Calib. Date(s): 04/17/98

04/17/98

Init. Calib. Times: 1036

1209

GC Column: DB-624

ID: 0.53 (mm)

Length: 75

(m)

COMPOUND	RRF	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.288	0.224	0.010	22.2	
Bromomethane	0.266	0.175	0.100	34.2	30.0 <-
Vinyl Chloride	0.325	0.239	0.100	26.5	30.0
Chloroethane	0.198	0.161	0.010	18.7	
Methylene Chloride	0.332	0.292	0.010	12.0	
Acetone	0.050	0.052		-4.0	
Carbon Disulfide	0.956	0.758	0.010	20.7	
1,1-Dichloroethene	0.305	0.290	0.100	4.9	30.0
1,1-Dichloroethane	0.609	0.547	0.200	10.2	30.0
cis-1,2-Dichloroethene	0.348	0.318		8.6	
trans-1,2-Dichloroethene	0.364	0.319		12.4	
Chloroform	0.752	0.647	0.200	14.0	30.0
1,2-Dichloroethane	0.438	0.364	0.100	16.9	30.0
2-Butanone	0.095	0.106		-11.6	
Bromochloromethane	0.217	0.182	0.050	16.1	30.0
1,1,1-Trichloroethane	0.732	0.665	0.100	9.2	30.0
Carbon Tetrachloride	0.695	0.610	0.100	12.2	30.0
Bromodichloromethane	0.782	0.738	0.200	5.6	30.0
1,2-Dichloropropane	0.437	0.423		3.2	
cis-1,3-Dichloropropene	0.668	0.670	0.200	-0.3	30.0
Trichloroethene	0.488	0.473	0.300	3.1	30.0
Dibromochloromethane	0.639	0.575	0.100	10.0	30.0
1,1,2-Trichloroethane	0.378	0.380	0.100	-0.5	30.0
Benzene	1.240	1.236	0.500	0.3	30.0
trans-1,3-Dichloropropene	0.567	0.556	0.100	1.9	30.0
Bromoform	0.436	0.419	0.050	3.9	30.0
4-Methyl-2-Pentanone	0.279	0.344		-23.3	
2-Hexanone	0.162	0.208		-28.4	
Tetrachloroethene	0.623	0.573	0.200	8.0	30.0
1,1,2,2-Tetrachloroethane	0.619	0.627	0.100	-1.3	30.0
1,2-Dibromoethane	0.538	0.511	0.100	5.0	30.0
Toluene	1.312	1.295	0.400	1.3	30.0
Chlorobenzene	0.951	0.886	0.500	6.8	30.0
Ethylbenzene	1.641	1.596	0.100	2.7	30.0
Styrene	0.926	0.890	0.300	3.9	30.0
Xylene (total)	0.570	0.532	0.300	6.7	30.0
1,3-Dichlorobenzene	1.537	1.336	0.600	13.1	30.0
1,4-Dichlorobenzene	1.713	1.487	0.500	13.2	30.0
1,2-Dichlorobenzene	1.447	1.273	0.400	12.0	30.0
1,2-Dibromo-3-chloropropane	0.202	0.214		-5.9	
4-Bromofluorobenzene	0.424	0.354	0.200	16.5	30.0

## LOW CONC. WATER VOLATILE ORGANICS CONTINUING CALIBRATION SUMMARY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Instrument ID: L

Calibration Date: 06/28/98

Time: 1512

Lab File ID: LLX005EHV

Init. Calib. Date(s): 04/17/98

04/17/98

Init. Calib. Times: 1036

1209

GC Column: DB-624

ID: 0.53 (mm)

Length: 75

(m)

COMPOUND	RRF	RRF5	MIN RRF	%D	MAX %D
Chloromethane	0.288	0.231	0.010	19.8	
Bromomethane	0.266	0.184	0.100	30.8	30.0 <-
Vinyl Chloride	0.325	0.249	0.100	23.4	30.0
Chloroethane	0.198	0.173	0.010	12.6	
Methylene Chloride	0.332	0.322	0.010	3.0	
Acetone	0.050	0.052		-4.0	
Carbon Disulfide	0.956	0.854	0.010	10.7	
1,1-Dichloroethene	0.305	0.295	0.100	3.3	30.0
1,1-Dichloroethane	0.609	0.610	0.200	-0.2	30.0
cis-1,2-Dichloroethene	0.348	0.362		-4.0	
trans-1,2-Dichloroethene	0.364	0.345		5.2	
Chloroform	0.752	0.704	0.200	6.4	30.0
1,2-Dichloroethane	0.438	0.388	0.100	11.4	30.0
2-Butanone	0.095	0.105		-10.5	
Bromochloromethane	0.217	0.201	0.050	7.4	30.0
1,1,1-Trichloroethane	0.732	0.709	0.100	3.1	30.0
Carbon Tetrachloride	0.695	0.657	0.100	5.5	30.0
Bromodichloromethane	0.782	0.775	0.200	0.9	30.0
1,2-Dichloropropane	0.437	0.460		-5.3	
cis-1,3-Dichloropropene	0.668	0.709	0.200	-6.1	30.0
Trichloroethene	0.488	0.494	0.300	-1.2	30.0
Dibromochloromethane	0.639	0.557	0.100	12.8	30.0
1,1,2-Trichloroethane	0.378	0.400	0.100	-5.8	30.0
Benzene	1.264	1.324	0.500	-4.7	30.0
trans-1,3-Dichloropropene	0.567	0.572	0.100	-0.9	30.0
Bromoform	0.436	0.362	0.050	17.0	30.0
4-Methyl-2-Pentanone	0.279	0.325		-16.5	
2-Hexanone	0.162	0.215		-32.7	
Tetrachloroethene	0.623	0.599	0.200	3.8	30.0
1,1,2,2-Tetrachloroethane	0.619	0.620	0.100	-0.2	30.0
1,2-Dibromoethane	0.538	0.518	0.100	3.7	30.0
Toluene	1.312	1.370	0.400	-4.4	30.0
Chlorobenzene	0.951	0.943	0.500	0.8	30.0
Ethylbenzene	1.641	1.656	0.100	-0.9	30.0
Styrene	0.926	0.951	0.300	-2.7	30.0
Xylene (total)	0.570	0.551	0.300	3.3	30.0
1,3-Dichlorobenzene	1.537	1.414	0.600	8.0	30.0
1,4-Dichlorobenzene	1.713	1.686	0.500	1.6	30.0
1,2-Dichlorobenzene	1.447	1.384	0.400	4.4	30.0
1,2-Dibromo-3-chloropropane	0.202	0.208		-3.0	
4-Bromofluorobenzene	0.424	0.388	0.200	8.5	30.0

8LCA  
LOW CONC. WATER VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT Case No.: 98011

SAS No.:

SDG No.: 69597

Lab File ID (Standard): LLX005EHV

Date Analyzed: 06/28/98

Instrument ID: L

Time Analyzed: 1512

GC Column: DB-624

ID: 0.53 (mm) Length: 75

(m)

	IS1 (DFB)		IS2 (CBZ)		IS3 (DCB)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	558193	8.57	478265	12.19	293692	15.01
UPPER LIMIT	781470	8.91	669571	12.52	411169	15.34
LOWER LIMIT	334916	8.24	286959	11.86	176215	14.68
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKD9	575822	8.57	475955	12.20	296214	15.00
02 LLXE LCS	550961	8.59	464562	12.20	290583	15.00
03 AL186DL	513620	8.57	433547	12.20	257353	15.02
04 AL807DL	523579	8.57	441289	12.20	272773	15.00
05 AL190DL	541503	8.57	455378	12.20	284791	15.02
06 AL191DL	544134	8.57	457172	12.20	282238	15.01
07 VIBLK01	532943	8.57	446234	12.20	277613	15.01
08 VSBLK02	540194	8.57	454013	12.20	282406	15.01
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21						
22						

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 internal standard area and RT values with an asterisk.  
 \* Values outside of QC limits.

8LCA  
LOW CONC. WATER VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011  
 Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597  
 Lab File ID (Standard): LLX005DHV              Date Analyzed: 06/27/98  
 Instrument ID: L                                      Time Analyzed: 1343  
 GC Column: DB-624      ID: 0.53 (mm) Length: 75 (m)

	IS1 (DFB)	RT #	IS2 (CBZ)	RT #	IS3 (DCB)	RT #
	AREA #		AREA #		AREA #	
=====	=====	=====	=====	=====	=====	=====
12 HOUR STD	542481	8.57	455582	12.21	284884	15.01
UPPER LIMIT	759473	8.91	637815	12.54	398838	15.34
LOWER LIMIT	325489	8.24	273349	11.87	170930	14.68
=====	=====	=====	=====	=====	=====	=====
EPA SAMPLE NO.						
=====	=====	=====	=====	=====	=====	=====
01 VBLKD8	584588	8.59	490599	12.20	306956	15.02
02 LLXD LCS	596781	8.57	499751	12.20	316804	15.02
03 AL185	562003	8.59	469555	12.20	290038	15.02
04 AL186	567095	8.57	470522	12.20	291842	15.02
05 AL187	554895	8.57	465225	12.20	286719	15.02
06 AL188	559792	8.59	465909	12.20	293719	15.01
07 AL805	578899	8.59	485327	12.20	305677	15.02
08 AL806	563877	8.57	472919	12.20	300675	15.01
09 AL807	573871	8.59	479534	12.20	303201	15.02
10 AL189	562070	8.59	463843	12.20	295123	15.01
11 AL190	586704	8.59	492124	12.20	306160	15.02
12 AL190MS	566268	8.57	475259	12.20	295546	15.00
13 AL190MSD	583248	8.57	487084	12.20	303217	15.02
14 AL191	574039	8.57	472572	12.20	305526	15.02
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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 internal standard area and RT values with an asterisk.  
 \* Values outside of QC limits.



1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKD8

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: VBLKD8

Date Received: \_\_\_\_\_

Lab File ID: LLX005DQV

Date Analyzed: 06/27/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKD8

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: VBLKD8                                      Date Received: \_\_\_\_\_

Lab File ID: LLX005DQV                                      Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKD9

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: VBLKD9

Date Received: \_\_\_\_\_

Lab File ID: LLXBO01EV

Date Analyzed: 06/28/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (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	0.92	J
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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKD9

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: VBLKD9                                      Date Received: \_\_\_\_\_

Lab File ID: LLXBO01EV                                      Date Analyzed: 06/28/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VIBLK01

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: VIBLK01

Date Received: \_\_\_\_\_

Lab File ID: LLXB002EV

Date Analyzed: 06/28/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (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	0.69	JB
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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VIBLK01

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: VIBLK01

Date Received: \_\_\_\_\_

Lab File ID: LLXB002EV

Date Analyzed: 06/28/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSBLK02

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 69597  
 Lab Sample ID: VSBLK02 Date Received: 06/22/98  
 Lab File ID: L359497V Date Analyzed: 06/28/98  
 Purge Volume: 5 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (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
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

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VSBLK02

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: VSBLK02

Date Received: 06/22/98

Lab File ID: L359497V

Date Analyzed: 06/28/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LLXD LCS

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 69597  
 Lab Sample ID: LLXD LCS Date Received: \_\_\_\_\_  
 Lab File ID: LLX005D2QV Date Analyzed: 06/27/98  
 Purge Volume: 5 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	6.6	
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	4.9	
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	5.1	
10061-01-5	cis-1,3-Dichloropropene	4.7	
79-01-6	Trichloroethene	5.1	
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	4.6	
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	5.2	
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
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	4.8	
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LLXE LCS

Lab Name: ITS ENVIRONMENTAL

Contract: 98011

Lab Code: INCHVT

Case No.: 98011

SAS No.:

SDG No.: 69597

Lab Sample ID: LLXE LCS

Date Received: \_\_\_\_\_

Lab File ID: LLX005EQV

Date Analyzed: 06/28/98

Purge Volume: 5 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	6.4	
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	0.30	J
107-06-2	1,2-Dichloroethane	4.7	
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	4.6	
10061-01-5	cis-1,3-Dichloropropene	4.5	
79-01-6	Trichloroethene	4.9	
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	4.7	
71-43-2	Benzene	4.8	
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	5.2	
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
106-93-4	1,2-Dibromoethane	4.9	
108-88-3	Toluene	1.0	U
108-90-7	Chlorobenzene	1.0	U
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	4.3	
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

1LCA  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AL190MS

Lab Name: ITS ENVIRONMENTAL                      Contract: 98011

Lab Code: INCHVT      Case No.: 98011      SAS No.:                      SDG No.: 69597

Lab Sample ID: 359507MS                      Date Received: 06/22/98

Lab File ID: L359507MSV                      Date Analyzed: 06/27/98

Purge Volume: 5                      (mL)                      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53      (mm) Length: 75                      (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	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	2.6	J
75-15-0	-----Carbon Disulfide	1.0	U
75-35-4	-----1,1-Dichloroethene	1.0	U
75-34-3	-----1,1-Dichloroethane	0.62	J
106-59-2	-----cis-1,2-Dichloroethene	110	E
156-60-5	-----trans-1,2-Dichloroethene	0.74	J
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	4.9	
75-27-4	-----Bromodichloromethane	1.0	U
78-87-5	-----1,2-Dichloropropane	5.1	
10061-01-5	-----cis-1,3-Dichloropropene	4.3	
79-01-6	-----Trichloroethene	8.7	
124-48-1	-----Dibromochloromethane	1.0	U
79-00-5	-----1,1,2-Trichloroethane	4.8	
71-43-2	-----Benzene	5.0	
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	4.9	
108-88-3	-----Toluene	1.0	U
108-90-7	-----Chlorobenzene	1.0	U
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	4.9	
95-50-1	-----1,2-Dichlorobenzene	1.0	U
96-12-8	-----1,2-Dibromo-3-chloropropane	1.0	U

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

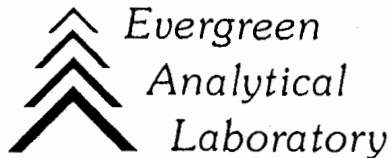
EPA SAMPLE NO.

AL190MSD

Lab Name: ITS ENVIRONMENTAL Contract: 98011  
 Lab Code: INCHVT Case No.: 98011 SAS No.: SDG No.: 69597  
 Lab Sample ID: 359507MD Date Received: 06/22/98  
 Lab File ID: L359507MDV Date Analyzed: 06/27/98  
 Purge Volume: 5 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1.0	U
74-83-9	Bromomethane	1.0	U
75-01-4	Vinyl Chloride	6.7	
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene Chloride	2.0	U
67-64-1	Acetone	1.8	J
75-15-0	Carbon Disulfide	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	0.59	J
1.6-59-2	cis-1,2-Dichloroethene	100	E
156-60-5	trans-1,2-Dichloroethene	0.72	J
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	5.6	
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	5.1	
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	5.2	
10061-01-5	cis-1,3-Dichloropropene	4.4	
79-01-6	Trichloroethene	8.7	
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	5.1	
71-43-2	Benzene	5.2	
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	4.1	
108-10-1	4-Methyl-2-Pentanone	5.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	5.3	
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
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	5.0	
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U

### **3. Evergreen Analytical**



July 02, 1998

MIKE DUCHESNEAU  
PARSONS ENGINEERING SCIENCE  
30 DAN ROAD  
CANTON, MA 02021-2809

Lab Work Order: 98-2576

Client Project: 730769-01006

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.

**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:** Effective January 1, 1996 we will retain a copy of this project report and supporting data for a period of five years. It has been our experience that a five year retention period is more than adequate to respond to client inquiries. 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,



Carl Smits  
V.P. Operations

# Evergreen Analytical Laboratory

98-2576

## WORK ORDER Summary

22-Jun 10:48 am

**Report To:** Mike Duchesneau

**Client Project ID:** 730769-01006

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
98-2576-01A	AL175	Methane. Ethane. Ethene		Water	2	18-Jun-98	20-Jun-98	07-Jul-98	02-Jul-98
98-2576-02A	AL176	Methane. Ethane. Ethene						07-Jul-98	02-Jul-98
98-2576-03A	AL177	Methane. Ethane. Ethene						07-Jul-98	02-Jul-98
98-2576-04A	AL178	Methane. Ethane. Ethene				19-Jun-98		07-Jul-98	03-Jul-98
98-2576-05A	AL182	Methane. Ethane. Ethene						07-Jul-98	03-Jul-98
98-2576-06A	AL183	Methane. Ethane. Ethene						07-Jul-98	03-Jul-98
98-2576-07A	AL184	Methane. Ethane. Ethene						07-Jul-98	03-Jul-98
98-2576-08A	AL185	Methane. Ethane. Ethene						07-Jul-98	03-Jul-98
98-2576-09A	AL186	Methane. Ethane. Ethene						07-Jul-98	03-Jul-98
98-2576-10A	AL187	Methane. Ethane. Ethene						07-Jul-98	03-Jul-98

# = Special list. See sample comments or test information.  
HT = Holding Time expiration date.

NRB

DM



PARSONS ENGINEERING SCIENCE, INC.

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

# CHAIN-OF-CUSTODY RECORD

PAGE OF

JOB NO. 730769-01006  
PROJECT Sereca 2nd Qtr. 1998  
CONTACT Mike Duchesneau

LABORATORY Evergreen Analytical  
ADDRESS Wheat Ridge CO  
CONTACT Slea Greiner

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES										COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	METALS	CN	Method 8160 Petroleum Hydrocarbons	Method 8150 Pesticides	NO. OF CONTAINERS					
AL175		6/18/98	1110		water										X	3	-01
AL176		6/18/98	1230		water										X	3	02
AL177		6/18/98	1500		water										X	3	03
AL178		6/19/98	0910		water										X	3	04
<del>AL182</del>		6/19/98	1005		water										X	3	05
AL183		6/19/98	1100		water										X	3	06
AL184		6/19/98	1155		water										X	3	07
AL185		6/19/98	1355		water										X	3	08
AL186		6/19/98	1500		water										X	3	09
AL187		6/19/98	1545		water										X	3	10

Sampled and Relinquished by  
 Sign [Signature]  
 Print Kerry Smith  
 Firm Parsons ES  
 Date 6/19/98 Time 1800

Received by  
 Sign [Signature]  
 Print CARL M SMITS  
 Firm EVERGREEN ANALYTICAL  
 Date 6/20/98 Time 0850

Relinquished by  
 Sign  
 Print  
 Firm  
 Date Time

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<sub>3</sub> G - Other  
 B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

REMARKS: (Sample storage, nonstandard sample bottles)  
 SAMPLE TEMP. Upon RECEIPT = 3°C only  
 CUSTODY SEALS 6/20/98 INTACT

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

Cooler #: 008

WO# 18-2576 BOF# [Signature] BY [Signature]  
 C/S(O) [Signature] C/S(I) [Signature]  
 Temp °C 3°C Seals Intact Y/N/NA  
 Date 6/20/98 11:50 AM  
 LUG Cont



EVERGREEN ANALYTICAL, INC.  
4036 Youngfield St. Wheat Ridge, CO 80033  
(303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL175	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2576-01	Lab Work Order	: 98-2576
Date Sampled	: 6/18/98	Dilution Factor	: 1.00
Date Received	: 6/20/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626006

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	: 74.5 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		

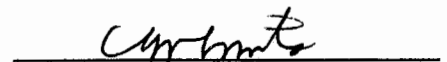
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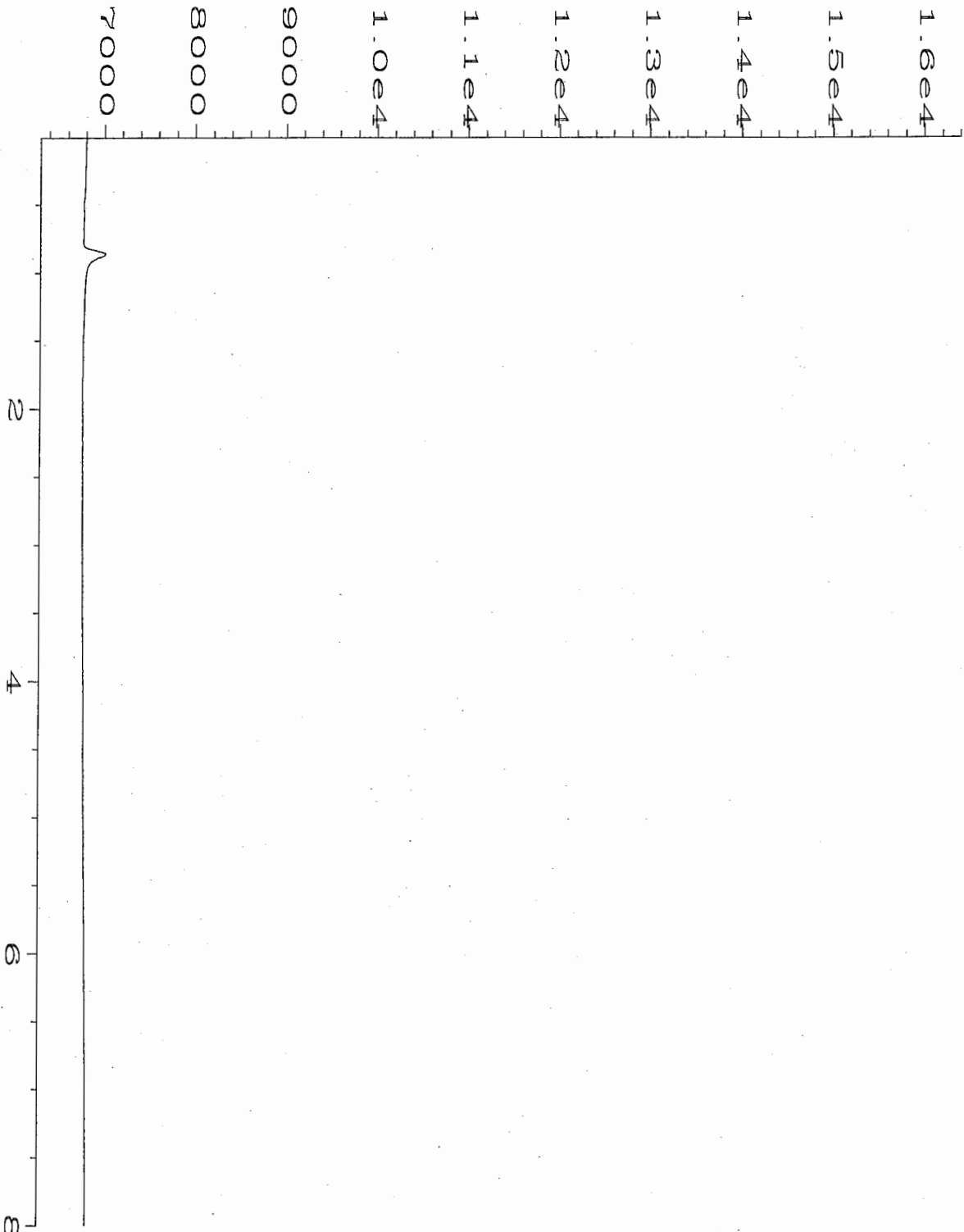
E = Extrapolated value.  
U = Compound analyzed for, but not detected.  
B = Compound also found in the blank.  
RL = Reporting Limit.  
NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\006R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 6
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2576-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 08:25 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:01 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	: AL175		
	: DF=1		

EVERGREEN ANALYTICAL, INC.  
 4036 Youngfield St. Wheat Ridge, CO 80033  
 (303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL176	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2576-02	Lab Work Order	: 98-2576
Date Sampled	: 6/18/98	Dilution Factor	: 1.00
Date Received	: 6/20/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626007

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	: 74.2 F	Saturation	Meth	: 0
Amount injected	: 0.5 ml	Concentration	Meth	: 0
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**

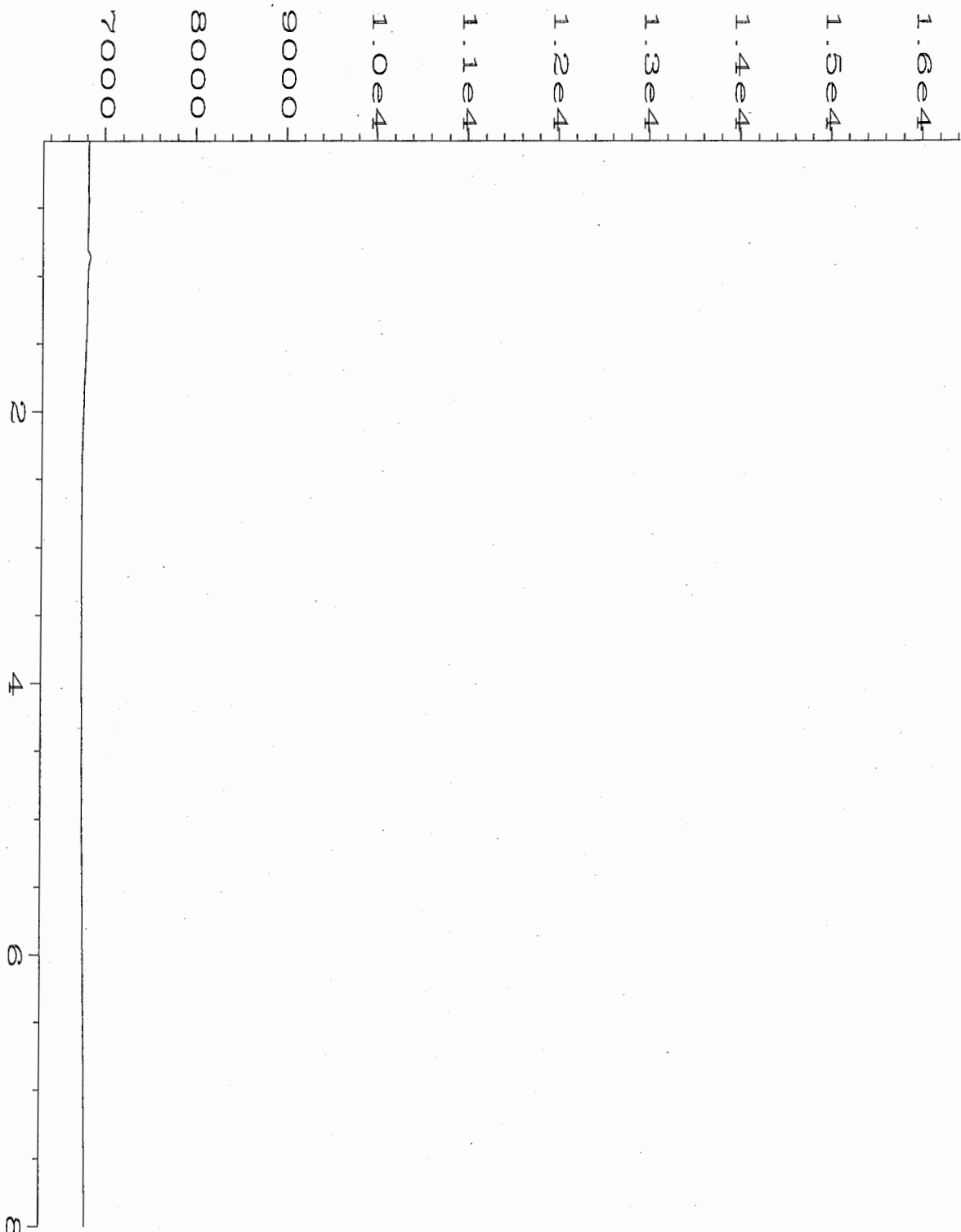
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\007R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 7
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2576-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 08:34 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:02 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL176		
	DF=1		

**EVERGREEN ANALYTICAL, INC.**  
**4036 Youngfield St. Wheat Ridge, CO 80033**  
**(303) 425-6021**

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL177	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2576-03	Lab Work Order	: 98-2576
Date Sampled	: 6/18/98	Dilution Factor	: 1.00
Date Received	: 6/20/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626008

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	: 74.2 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**

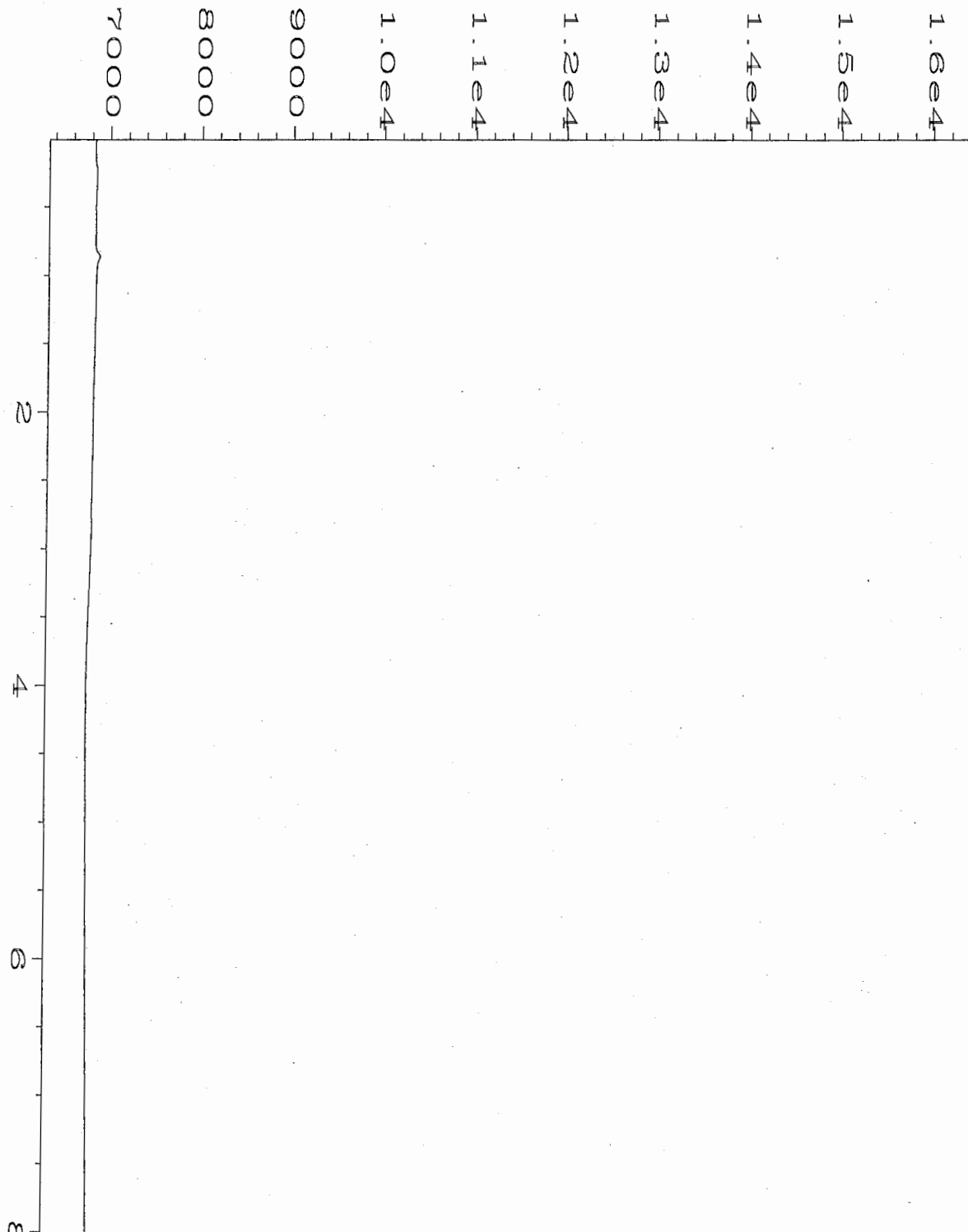
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 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\008R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 8
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2576-03A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 08:42 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:02 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL177		
	DF=1		

**EVERGREEN ANALYTICAL, INC.**  
**4036 Youngfield St. Wheat Ridge, CO 80033**  
**(303) 425-6021**

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL178	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2576-04	Lab Work Order	: 98-2576
Date Sampled	: 6/19/98	Dilution Factor	: 1.00
Date Received	: 6/20/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626009

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.085	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 74.4 F	Saturation	Meth	0.020433805
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.064092949
Head space created	: 4 ml	in Head Space		
Methane Area	: 475.178 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		

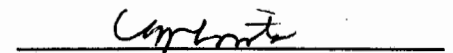
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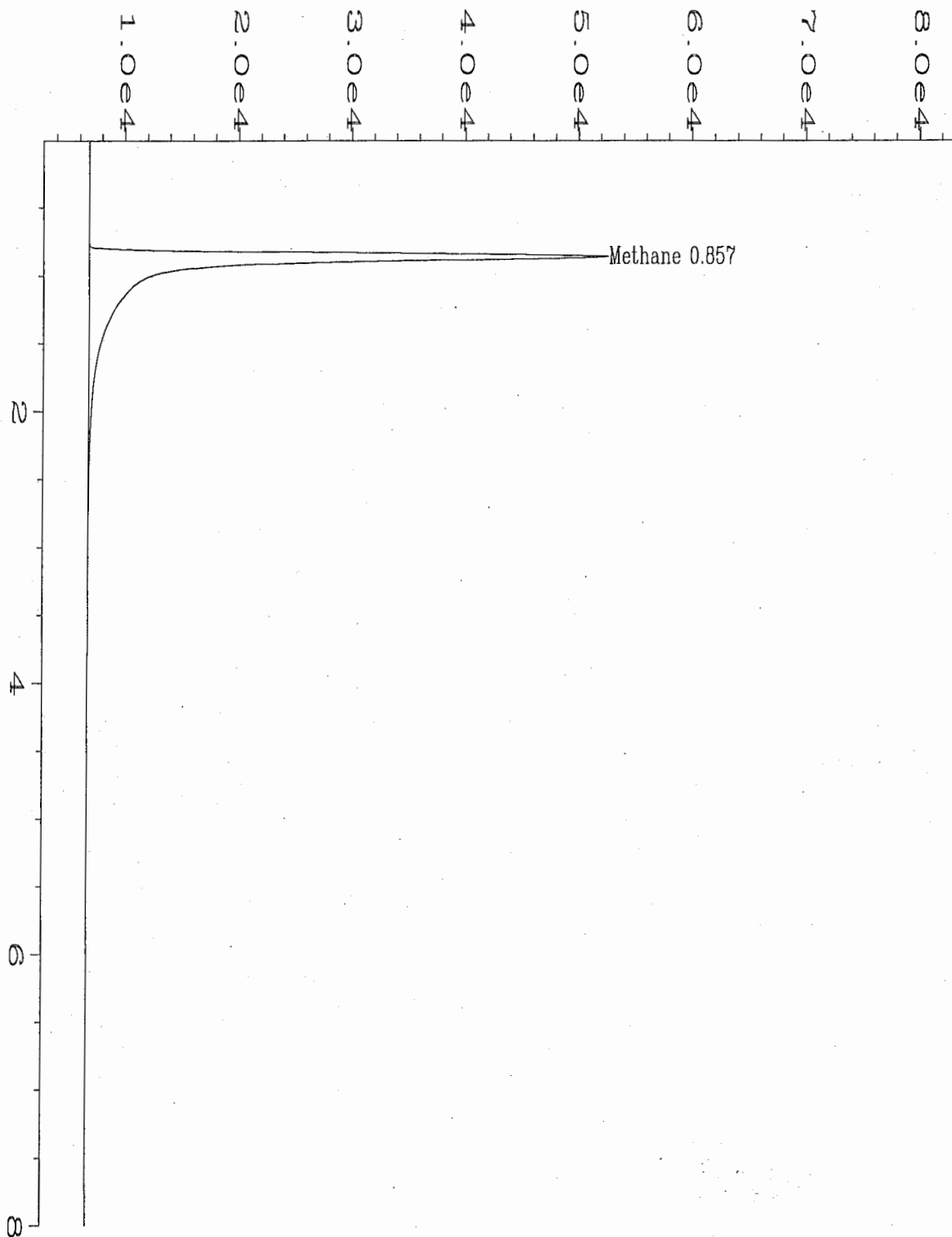
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 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
**Analyst**

  
 \_\_\_\_\_  
**Approved**



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\009R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 9
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2576-04A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 26 Jun 98 08:52 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:02 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL178		
	DF=1		



EVERGREEN ANALYTICAL, INC.  
4036 Youngfield St. Wheat Ridge, CO 80033  
(303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL182	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2576-05	Lab Work Order	: 98-2576
Date Sampled	: 6/19/98	Dilution Factor	: 1.00
Date Received	: 6/20/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626010

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	: 74.4 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		

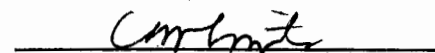
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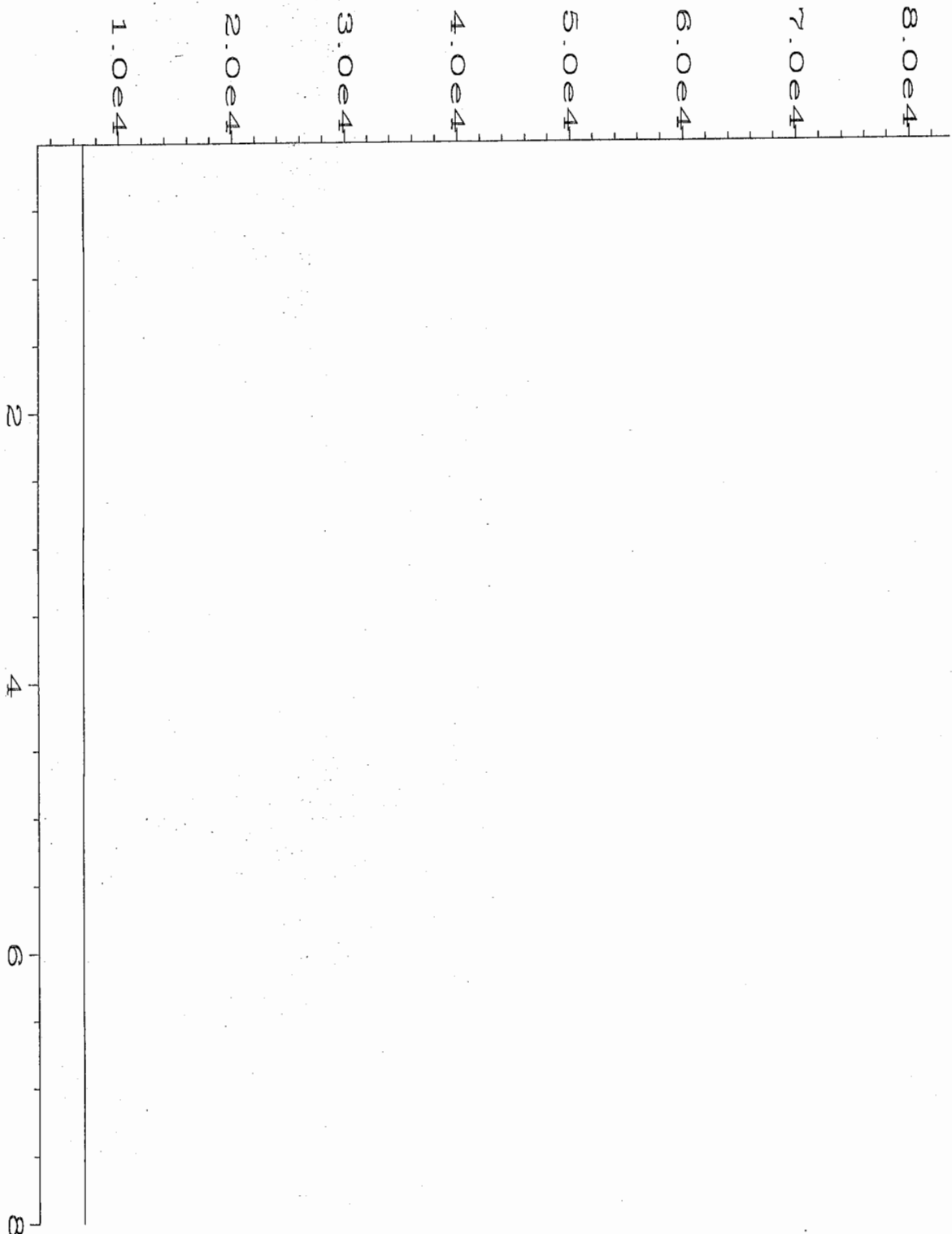
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\010R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 10
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2576-05A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 09:01 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:02 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL182		
	DF=1		

EVERGREEN ANALYTICAL, INC.  
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(303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL183	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2576-06	Lab Work Order	: 98-2576
Date Sampled	: 6/19/98	Dilution Factor	: 1.00
Date Received	: 6/20/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626011

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0019	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 74.3 F	Saturation	Meth	0.000462448
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.001450793
Head space created	: 4 ml	in Head Space		
Methane Area	: 10.754 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		

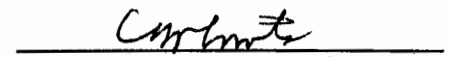
**Qualifiers**

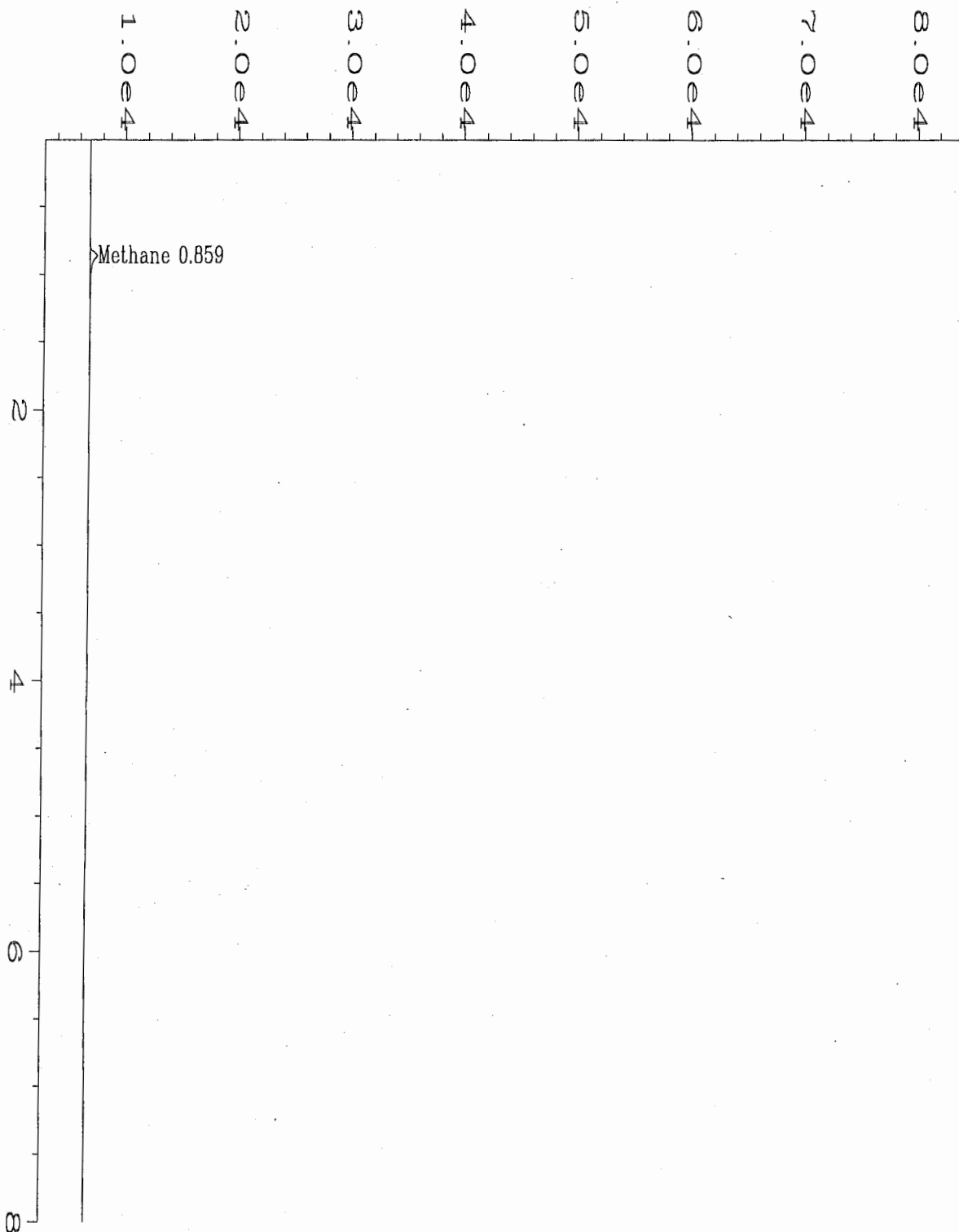
E = Extrapolated value.  
U = Compound analyzed for, but not detected.  
B = Compound also found in the blank.  
RL = Reporting Limit.  
NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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Analyst

  
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Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\011R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 11
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2576-06A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 09:11 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:02 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL183		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL184	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2576-07	Lab Work Order	: 98-2576
Date Sampled	: 6/19/98	Dilution Factor	: 1.00
Date Received	: 6/20/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626012

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0018	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 74.5 F	Saturation	Meth	0.000425896
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.001335621
Head space created	: 4 ml	in Head Space		
Methane Area	: 9.904 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		

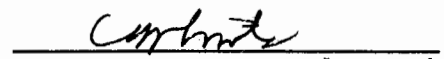
**Qualifiers**

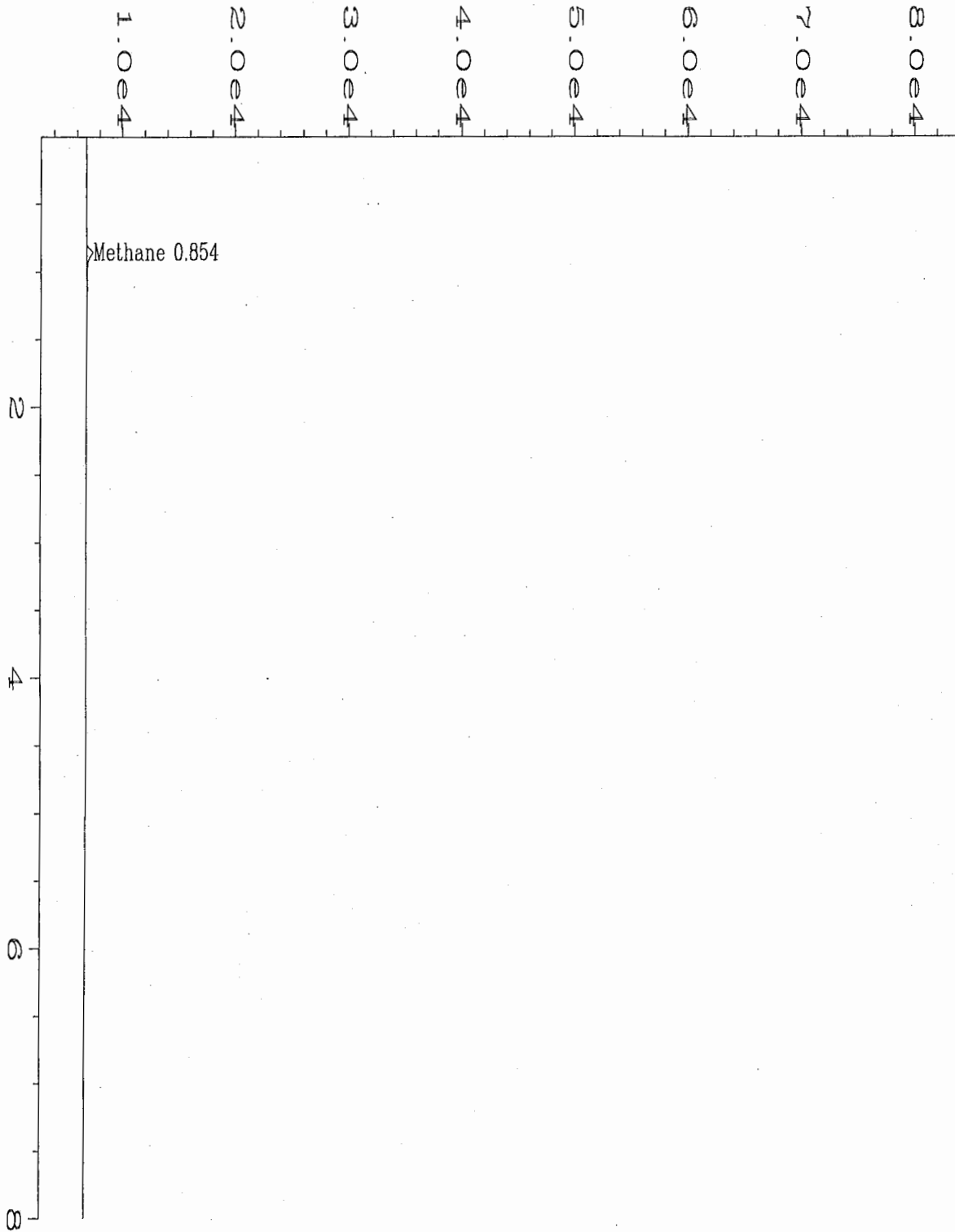
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\012R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 12
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2576-07A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 09:20 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:02 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL184		
	DF=1		

**EVERGREEN ANALYTICAL, INC.**  
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**(303) 425-6021**

**Methane, Ethane, Ethene Report Form**

<b>Client Sample Number</b>	: AL184	<b>Client Project No.</b>	: 730769-01006
<b>Lab Sample Number</b>	: 98-2576-07Dup	<b>Lab Work Order</b>	: 98-2576
<b>Date Sampled</b>	: 6/19/98	<b>Dilution Factor</b>	: 1.00
<b>Date Received</b>	: 6/20/98	<b>Method</b>	: RSKSOP-175M
<b>Date Extracted/Prepared</b>	: 6/26/98	<b>Matrix</b>	: Water
<b>Date Analyzed</b>	: 6/26/98	<b>Lab File No.</b>	: GAS0626013

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0064	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 74.5 F	Saturation	Meth	0.001540648
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.004831512
Head space created	: 4 ml	in Head Space		
Methane Area	: 35.827 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		

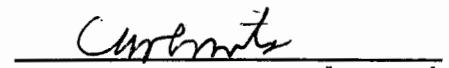
**Qualifiers**

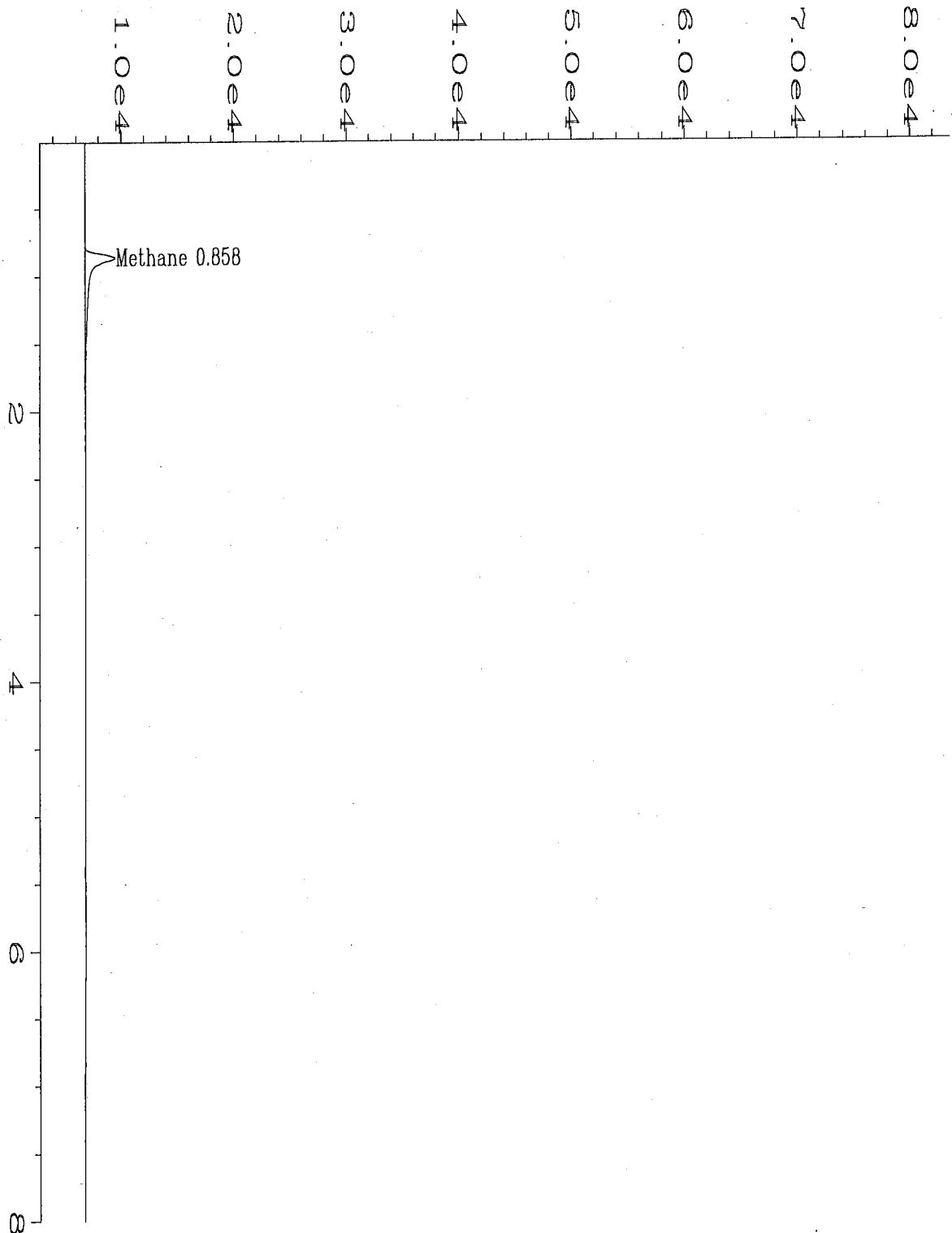
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\013R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 13
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2576-07ADup	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 09:29 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:02 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: DUP METHETH		
	AL184		
	DF=1		



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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL185	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2576-08	Lab Work Order	: 98-2576
Date Sampled	: 6/19/98	Dilution Factor	: 1.00
Date Received	: 6/20/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626015

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0064	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 74.5 F	Saturation	Meth	0.001543314
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.004839873
Head space created	: 4 ml	in Head Space		
Methane Area	: 35.889 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**

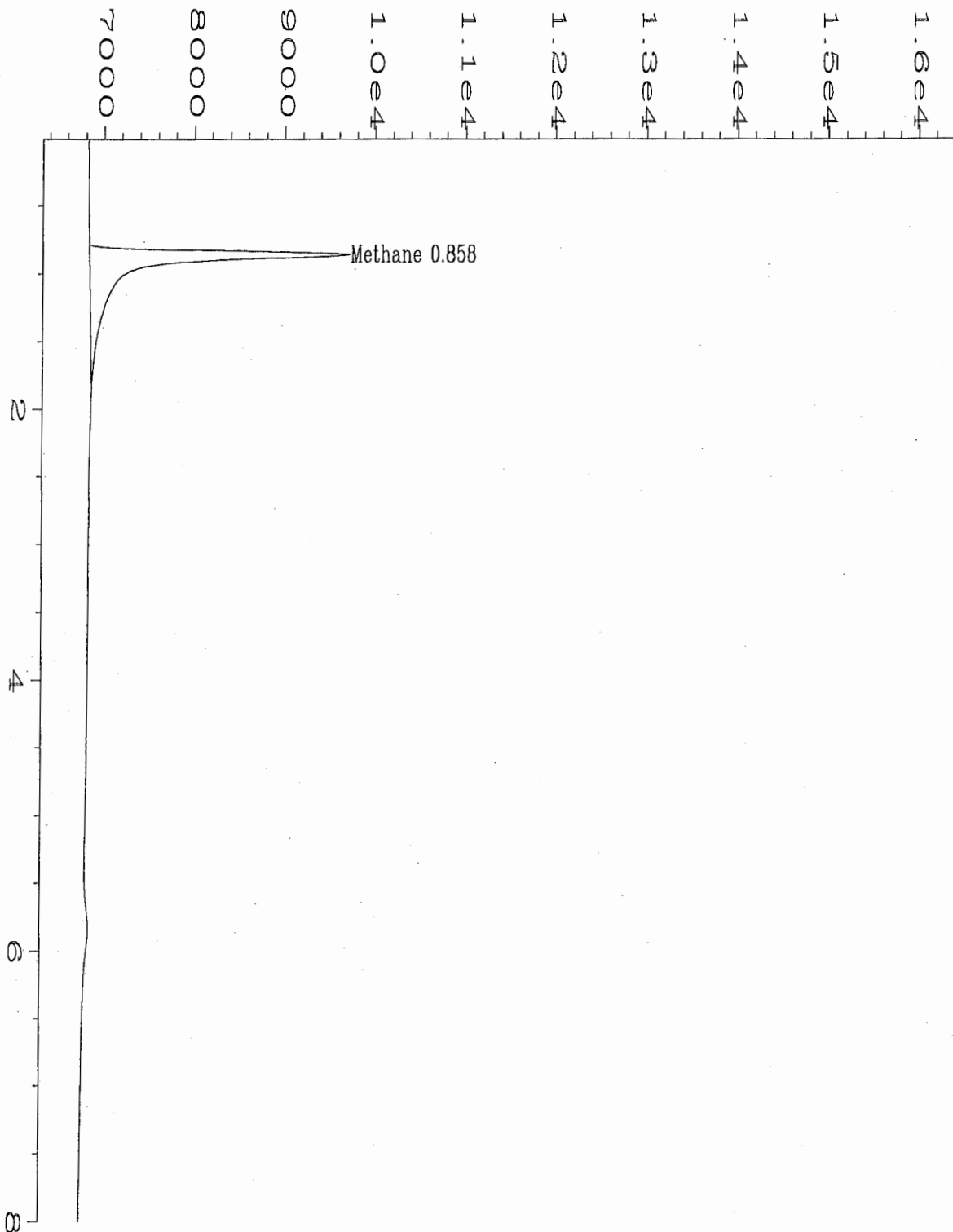
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\015R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 15
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2576-08A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 09:50 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:02 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL185		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL186	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2576-09	Lab Work Order	: 98-2576
Date Sampled	: 6/19/98	Dilution Factor	: 1.00
Date Received	: 6/20/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626016

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0045	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

Temperature	: 74.2 F	Saturation	Meth	0.001095014
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.003435922
Head space created	: 4 ml	in Head Space		
Methane Area	: 25.464 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**

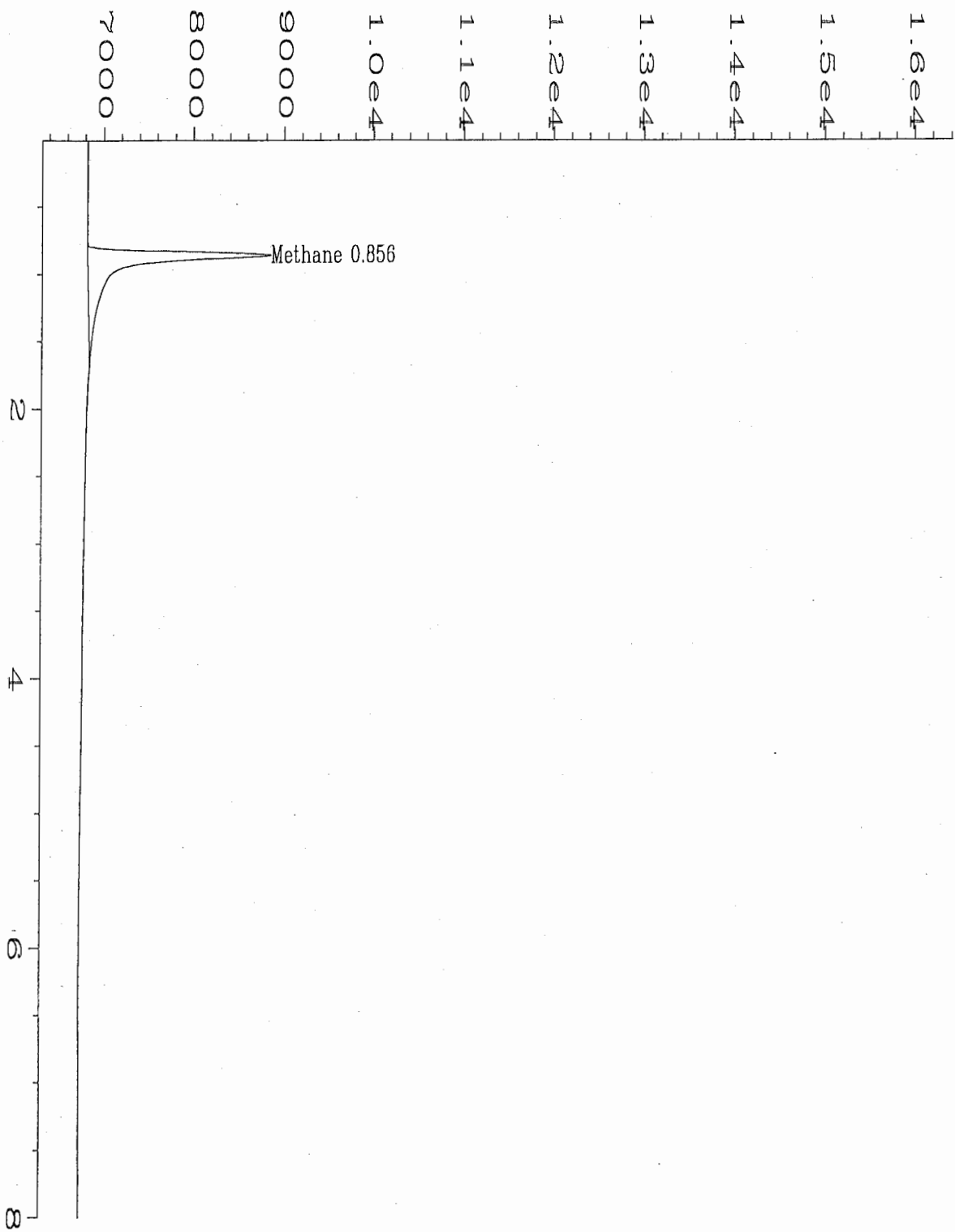
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\016R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 16
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2576-09A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 10:09 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:02 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL186		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL187	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2576-10	Lab Work Order	: 98-2576
Date Sampled	: 6/19/98	Dilution Factor	: 1.00
Date Received	: 6/20/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626017

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.046	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	0.013	0.0025


Temperature	: 74.1 F	Saturation	Meth	0.011039883
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.034647318
Head space created	: 4 ml	in Head Space		
Methane Area	: 256.727 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 24.814 ug	Concentration	Etha	0
Atomic weight(Methane)	: 16 g	in Head Space		
Atomic weight(Ethane)	: 30 g	Saturation	Ethe	0.00676508
Atomic weight(Ethene)	: 28 g	Concentration		
		Concentration	Ethe	0.005860476
		in Head Space		

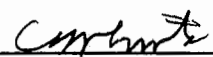
**Qualifiers**

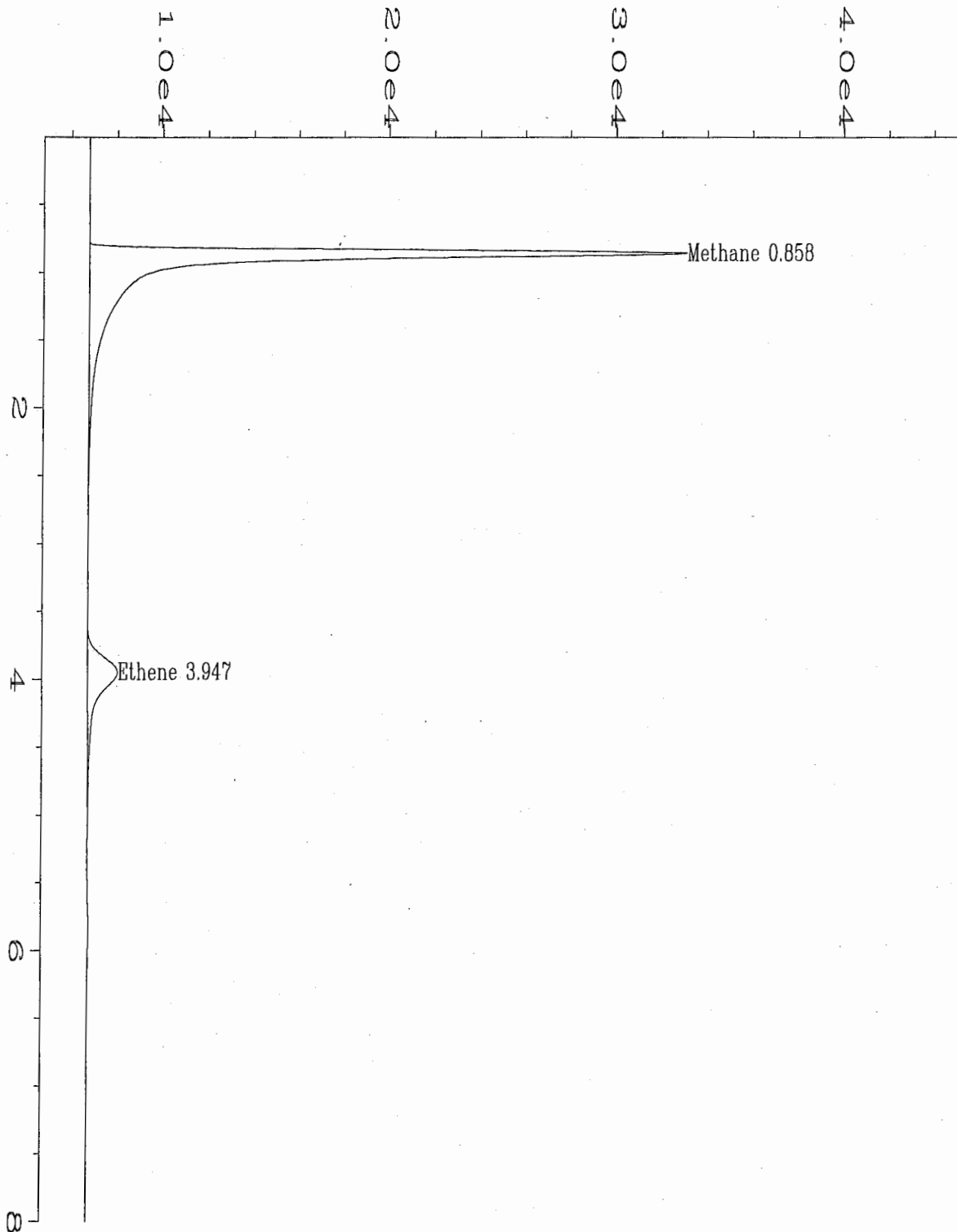
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
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 Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\017R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 17
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2576-10A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 10:28 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:03 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL187		
	DF=1		

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Methane, Ethane, Ethene Report Form  
Method Blank Report

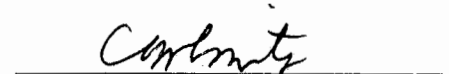
Method Blank Number	: GB062698	Client Project No.	: 730769-01006
Date Extracted/Prepared	: 6/26/98	Lab Work Order	: 98-2576
Date Analyzed	: 6/26/98	Dilution Factor	: 1.00
		Method	: RSKSOP-175M
		Matrix	: Water
		Lab File No.	: GAS0626005

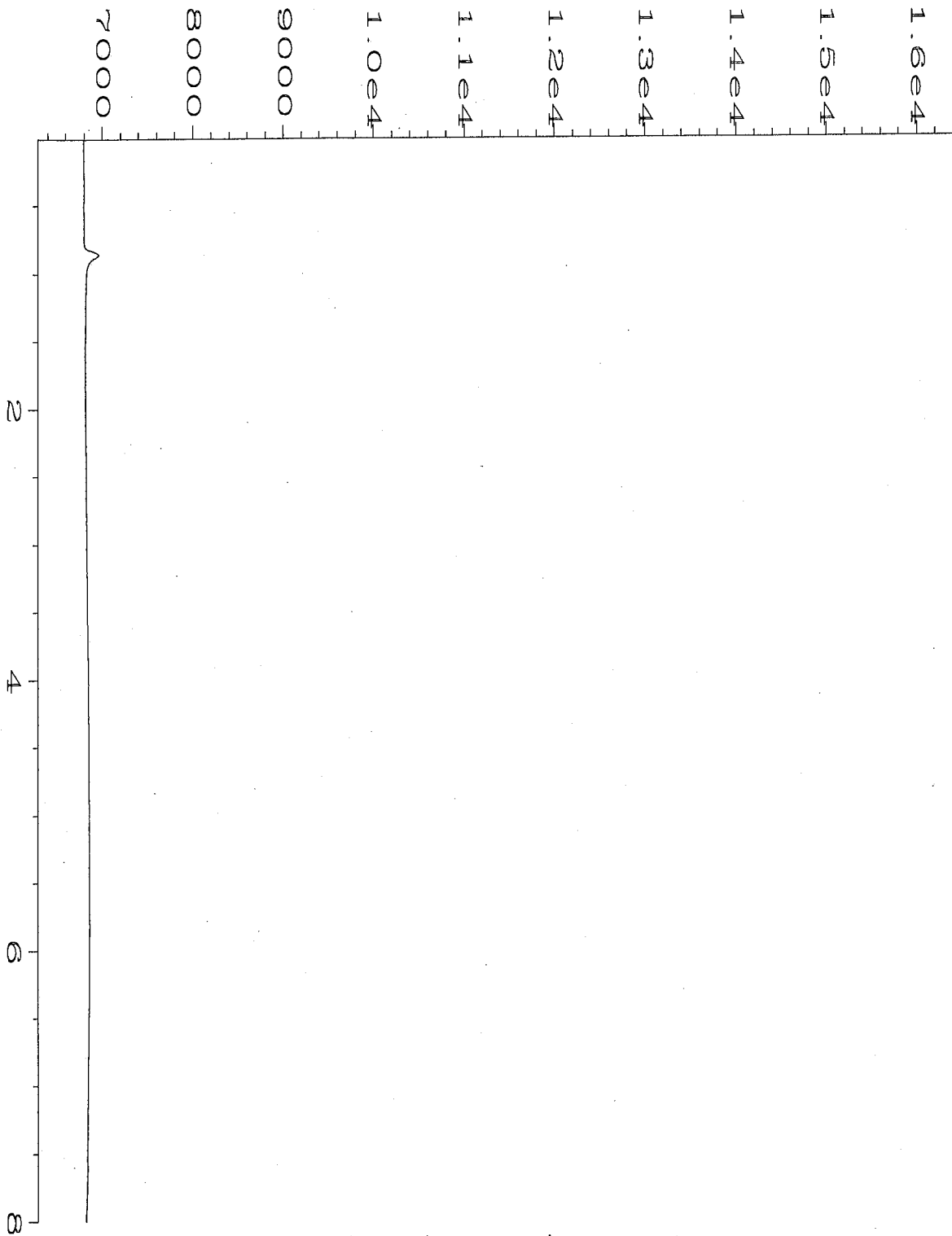
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

**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.

  
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Analyst

  
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Data File Name : C:\HPCHEM\ALGA\DATA\GAS0626\005R0101.D  
 Operator : Leanne Hackney  
 Instrument : ALGA  
 Sample Name : GB062698  
 Run Time Bar Code:  
 Acquired on : 26 Jun 98 07:47 AM  
 Report Created on: 29 Jun 98 02:02 PM  
 Last Recalib on : 03 SEP 97 11:40 AM  
 Multiplier : 1  
 Sample Info : MBLK METHETH  
 Displaced 4ml of distilled water in 43ml vial with Helium,  
 shook for 5 min. and injected 500ul.

Page Number : 1  
 Vial Number : 5  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: GAS.MTH  
 Analysis Method : GAS0625.MTH  
 Sample Amount : 0  
 ISTD Amount :



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**RSKSOP-175M Gas Method**  
**Methane, Ethane, Ethene LCS Report Form**

LCS No. : LCS062698                      EPA Method No. : RSKSOP-175M  
Date Prepared : 6/26/98                      Matrix : Water  
Date Analyzed : 6/26/98                      Method Blank : GB062698  
E.A. LCS Source No. : 1719                      Lab File No. : GAS0626004

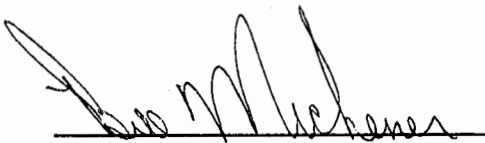
Compound	Spike Added (ug)	Method Blank Concentration (ug)	LCS Concentration (ug)	LCS %REC	QC Limits %REC
Methane Gas	500	0	359	72	64-90
Ethene Gas	500	0	222	44	37-58
Ethane Gas	500	0	335	67	53-83

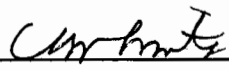
Spike Recovery: 0 out of (3) outside limits.

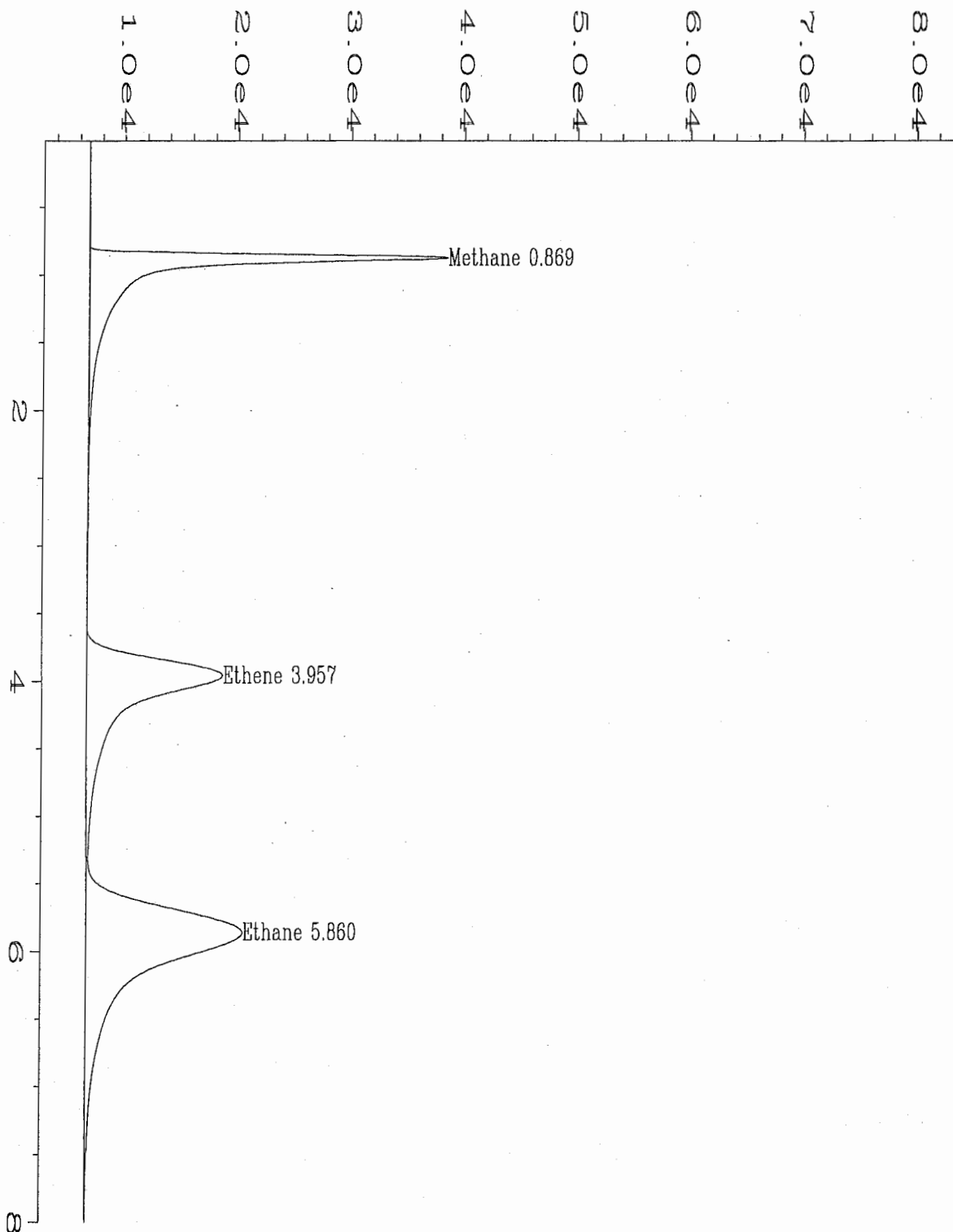
Note: The LCS was made by taking the sample and displacing 4ml of headspace with a 1% methane, ethane, ethene gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug.

**Notes**

\* = Values outside of QC limits.  
NA = Not analyzed/not available.

  
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Analyst

  
\_\_\_\_\_  
Approved



Data File Name : C:\HPCHEM\ALGA\DATA\GAS0626\004R0101.D  
 Operator : Leanne Hackney  
 Instrument : ALGA  
 Sample Name : LCS062698  
 Run Time Bar Code:  
 Acquired on : 26 Jun 98 07:31 AM  
 Report Created on: 29 Jun 98 02:02 PM  
 Last Recalib on : 03 SEP 97 11:40 AM  
 Multiplier : 1  
 Sample Info : LCS METHETH

Page Number : 1  
 Vial Number : 4  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: GAS.MTH  
 Analysis Method : GAS0625.MTH  
 Sample Amount : 0  
 ISTD Amount :

Displaced 4ml of distilled water in 43ml vial with 1% methane, ethane, and ethene gas(#1719), shook for 5 min. and

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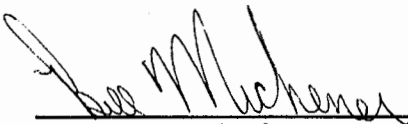
Methane, Ethane, Ethene Report Form  
Method Blank Report

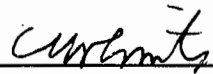
Method Blank Number	: GB062598	Client Project No.	: 730769-01006
Date Extracted/Prepared	: 6/25/98	Lab Work Order	: 98-2561
Date Analyzed	: 6/25/98	Dilution Factor	: 1.00
		Method	: RSKSOP-175M
		Matrix	: Water
		Lab File No.	: GAS0625005

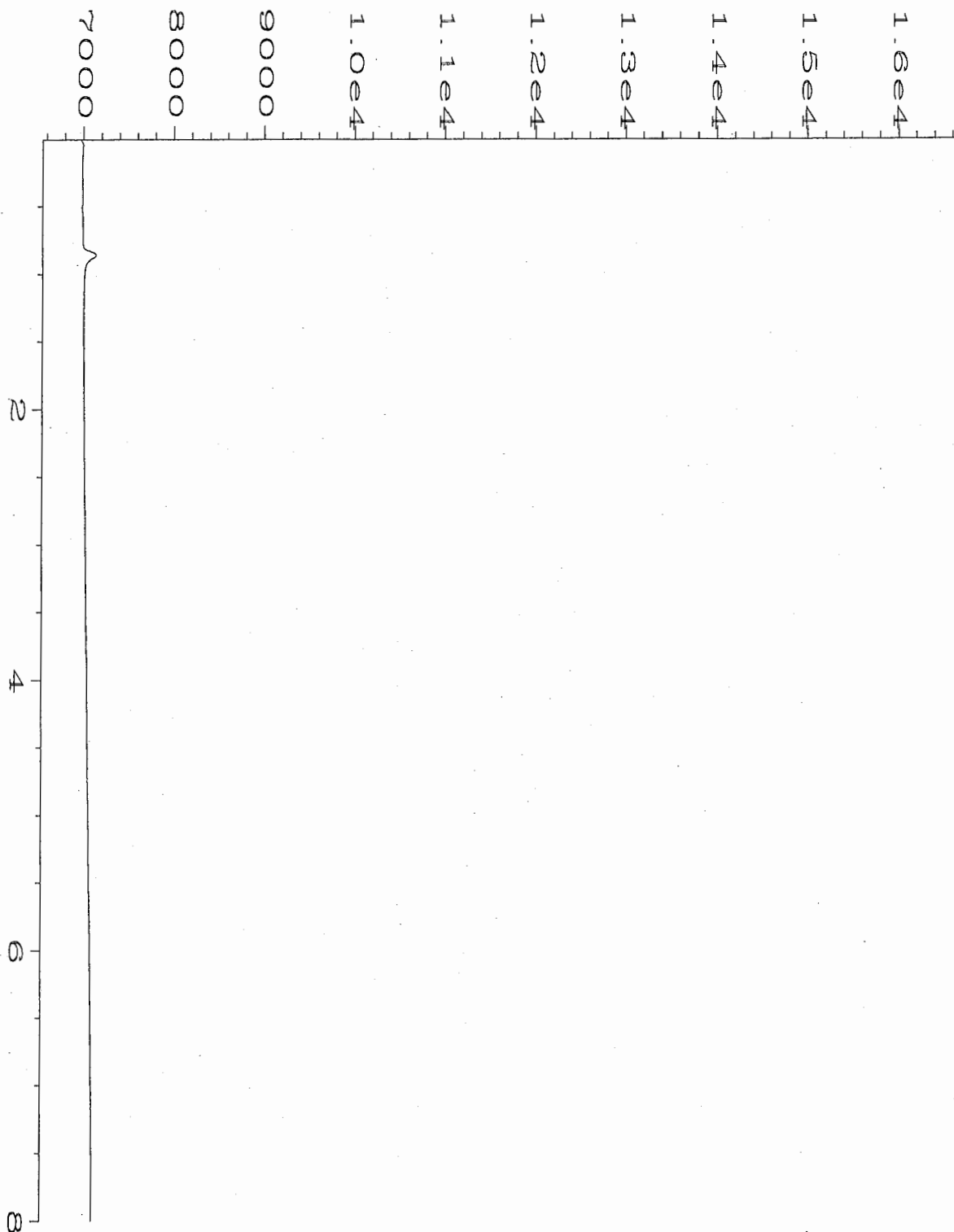
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

**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.

  
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Analyst

  
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Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0625\005R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 5
Instrument	: ALGA	Injection Number	: 1
Sample Name	: GB062598	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 25 Jun 98 07:32 AM	Analysis Method	: GAS0625.MTH
Report Created on:	25 Jun 98 03:25 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MBLK METHETH		

Displaced 4ml of distilled water in 43ml vial with Helium, shook for 5 min. and injected 500ul.

**RSK-175M Gas Method**  
**Methane, Ethane, Ethene Gas Matrix Spike / Matrix Spike Duplicate Report**

Client Sample No.	: AL171	Client Project No.	: 730769-01006
Lab Sample No.	: 98-2561-02	Lab Work Order	: 98-2561
Date Sampled	: 6/17/98	EPA Method No.	: RSKSOP-175M
Date Received	: 6/19/98	Matrix	: Water
Date Prepared	: 6/25/98	Method Blank	: GB062598
Date Analyzed	: 6/25/98	Lab File No's.	: GAS0625026,027
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	304	61	47-88
Ethene Gas	500	0	198	40	29-53
Ethane Gas	500	0	286	57	41-77

Compound	Spike Added (ug)	MSD Concentration (ug)	MSD %REC	RPD	QC Limits	
					RPD	%REC
Methane Gas	500	306	61	0.6	0-16.4	47-88
Ethene Gas	500	200	40	1.1	0-26.4	29-53
Ethane Gas	500	289	58	1.0	0-26.3	41-77

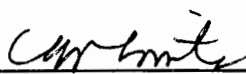
RPD: 0 out of (3) outside limits.  
Spike Recovery: 0 out of (6) outside limits.

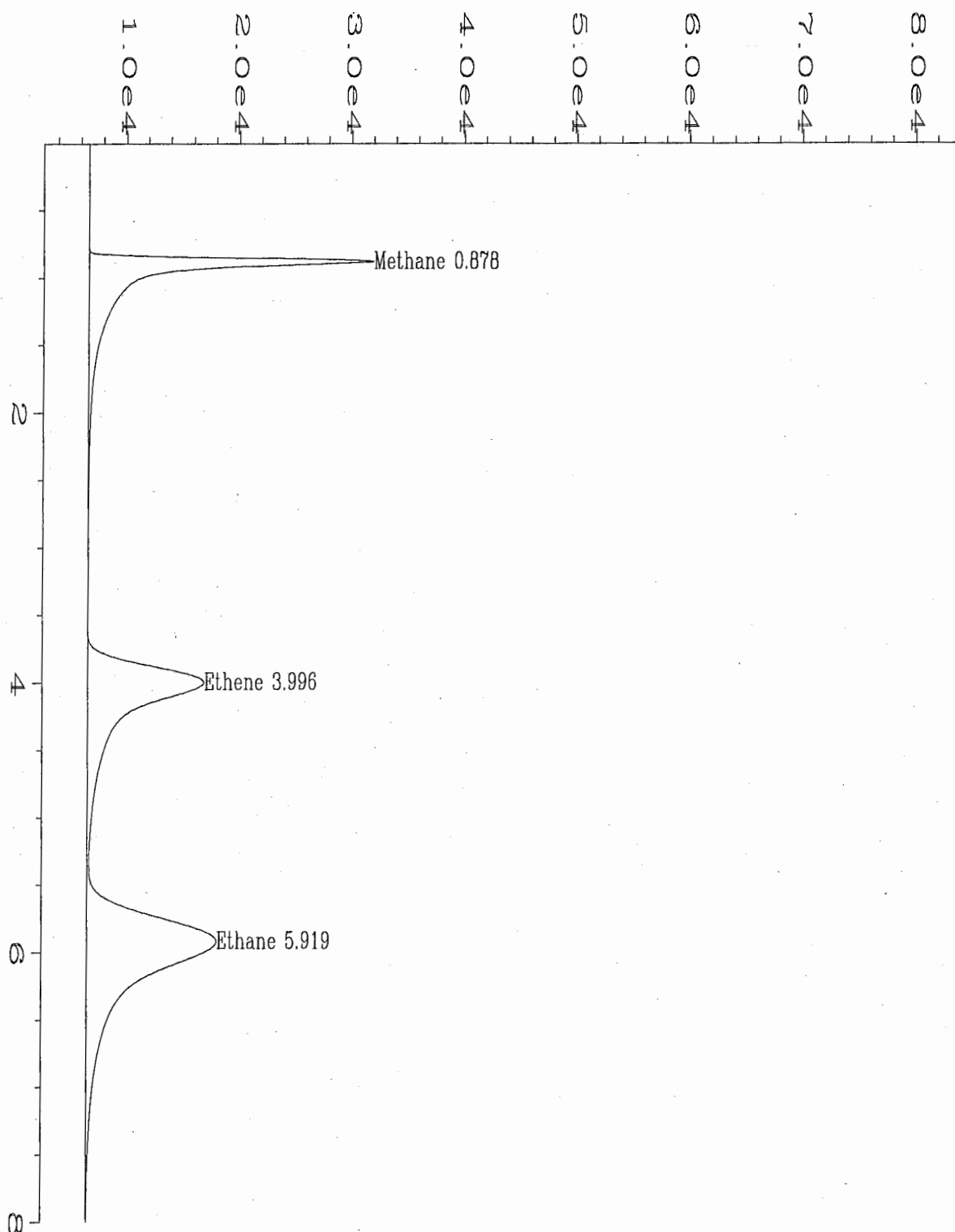
**Notes**

\* = Values outside of QC limits.  
\*\* = Sample concentration reported at DF = 10.  
NA = Not analyzed/not available

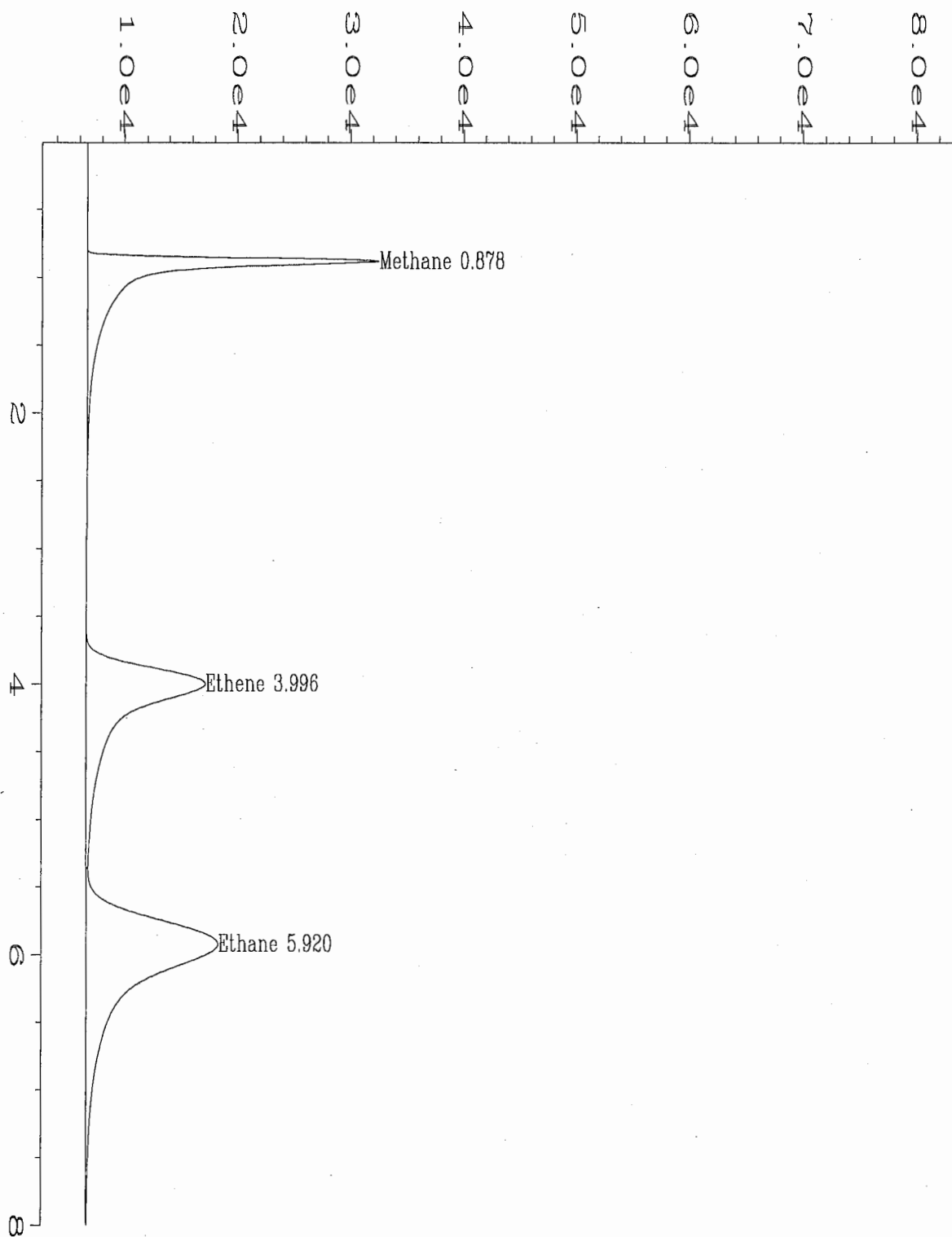
Note: The Spike was made by taking the sample and displacing 4ml of headspace with a 1% methane, ethane, ethene gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug. Sample injected at DF = 10.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0625\026R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 26
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2561-02AMS	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 25 Jun 98 02:11 PM	Analysis Method	: GAS0625.MTH
Report Created on:	25 Jun 98 03:24 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MS METHETH		
	AL171		
	Displaced 4ml with 1% methane, ethane and ethene gas(#1719).		



Data File Name : C:\HPCHEM\ALGA\DATA\GAS0625\027R0101.D  
 Operator : Leanne Hackney Page Number : 1  
 Instrument : ALGA Vial Number : 27  
 Sample Name : 98-2561-02AMSD Injection Number : 1  
 Run Time Bar Code: Sequence Line : 1  
 Acquired on : 25 Jun 98 02:20 PM Instrument Method: GAS.MTH  
 Report Created on: 25 Jun 98 03:24 PM Analysis Method : GAS0625.MTH  
 Last Recalib on : 03 SEP 97 11:40 AM Sample Amount : 0  
 Multiplier : 1 ISTD Amount :  
 Sample Info : MSD METHETH  
 AL171  
 Displaced 4ml with 1% methane, ethane and ethene gas(#1719).

Evergreen Analytical, Inc.  
4036 Youngfield, Wheat Ridge, CO 80033  
(303) 425-6021

RSKSOP-175M Gas Method  
Methane, Ethane, Ethene LCS Report Form

LCS No. : LCS062598                      EPA Method No. : RSKSOP-175M  
Date Prepared : 6/25/98                      Matrix : Water  
Date Analyzed : 6/25/98                      Method Blank : GB062598  
E.A. LCS Source No. : 1719                      Lab File No. : GAS0625004


Compound	Spike Added (ug)	Method Blank Concentration (ug)	LCS Concentration (ug)	LCS %REC	QC Limits %REC
Methane Gas	500	0	336	67	64-90
Ethene Gas	500	0	205	41	37-58
Ethane Gas	500	0	310	62	53-83

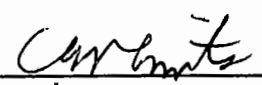
Spike Recovery: 0 out of (3) outside limits.

Note: The LCS 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.

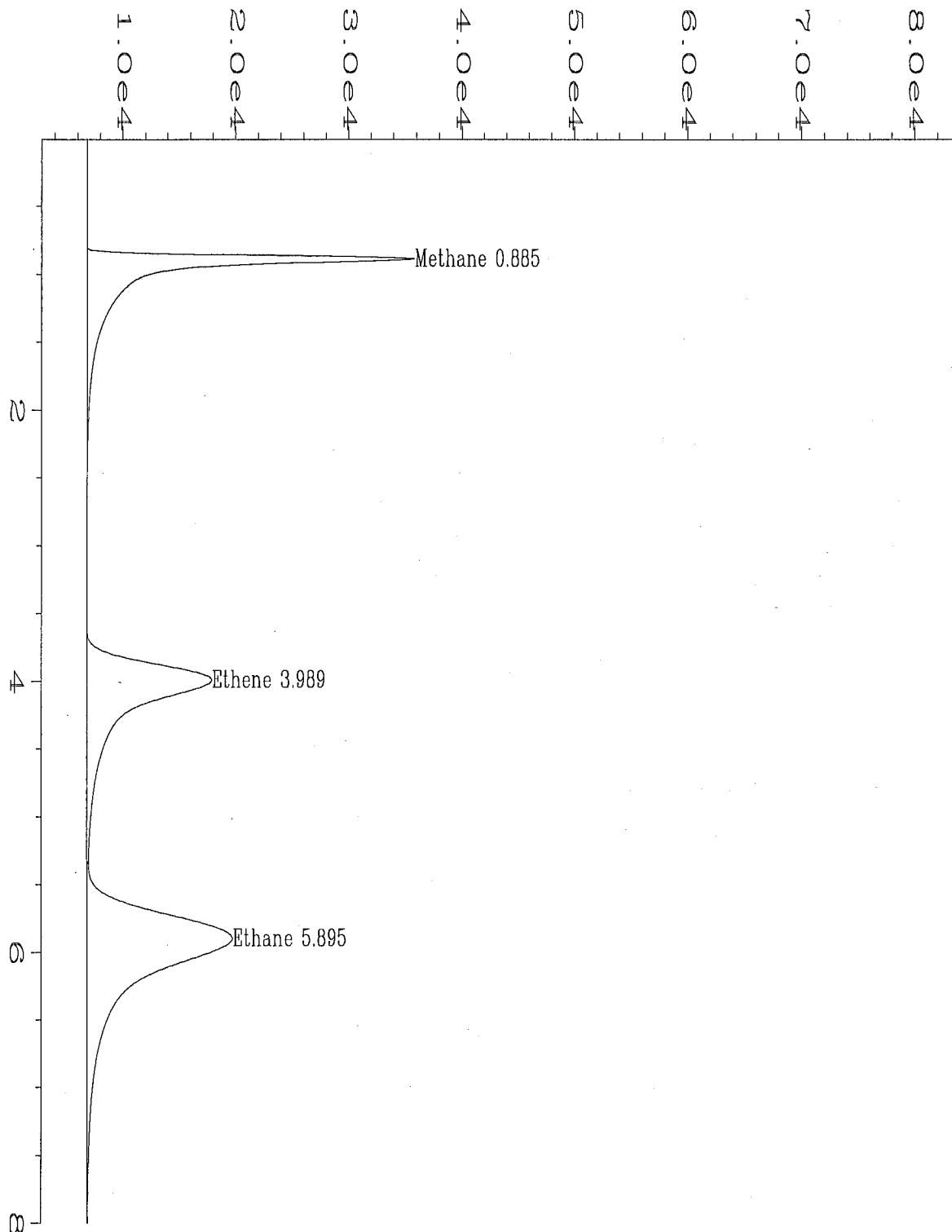
Notes

\* = Values outside of QC limits.  
NA = Not analyzed/not available.

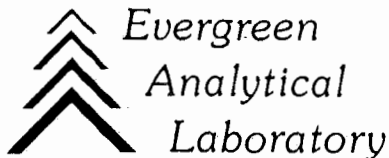
  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved





Data File Name : C:\HPCHEM\ALGA\DATA\GAS0625\004R0101.D  
 Operator : Leanne Hackney Page Number : 1  
 Instrument : ALGA Vial Number : 4  
 Sample Name : LCS062598 Injection Number : 1  
 Run Time Bar Code: Sequence Line : 1  
 Acquired on : 25 Jun 98 07:21 AM Instrument Method: GAS.MTH  
 Report Created on: 25 Jun 98 03:25 PM Analysis Method : GAS0625.MTH  
 Last Recalib on : 03 SEP 97 11:40 AM Sample Amount : 0  
 Multiplier : 1 ISTD Amount :  
 Sample Info : LCS METHETH  
 Displaced 4ml of distilled water in 43ml vial with 1%  
 methane, ethane, and ethene gas(#1719). shook for 5 min. and



July 02, 1998

MIKE DUCHESNEAU  
PARSONS ENGINEERING SCIENCE  
30 DAN ROAD  
CANTON, MA 02021-2809

Lab Work Order: 98-2615  
Client Project: 730769-01006

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.

**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:** Effective January 1, 1996 we will retain a copy of this project report and supporting data for a period of five years. It has been our experience that a five year retention period is more than adequate to respond to client inquiries. 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,

Carl Smits  
V.P. Operations

# Evergreen Analytical Laboratory

98-2615

## WORK ORDER Summary

23-Jun 12:09 pm

Report To: Mike Duchesneau

Client Project ID: 730769-01006

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
98-2615-01A	AL805	Methane. Ethane. Ethene		Water	2	20-Jun-98	23-Jun-98	08-Jul-98	27-Jun-98
98-2615-02A	AL188	Methane. Ethane. Ethene						08-Jul-98	27-Jun-98
98-2615-03A	AL189	Methane. Ethane. Ethene						08-Jul-98	27-Jun-98
98-2615-04A	AL190	Methane. Ethane. Ethene						08-Jul-98	27-Jun-98
98-2615-05A	AL807	Methane. Ethane. Ethene						08-Jul-98	27-Jun-98
98-2615-06A	AL191	Methane. Ethane. Ethene						08-Jul-98	27-Jun-98

*Handwritten signature*

*Handwritten mark*



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. 730769-01006  
PROJECT 2nd Qtr. 1998 - Seneca  
CONTACT Mike Duchesneau

LABORATORY  
ADDRESS  
CONTACT

WO# 98-2615 BOF# N/A BY JD  
C/S(O) N/A/N/A C/S(I) C/CB  
Temp°C 5 Seals Intact Y/N/NA  
Pres Y/N/NA Hd Sp Y/N/NA  
Loc 2 Cont 40

SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING		SAMPLE DEPTH	SAMPLE MATRIX	ANALYSES							NO. CONTAINERS	COMMENTS (Special instructions, cautions, etc.)	
		DATE	TIME			VOA	SVOC	METALS	CN	m/e/e					
AL805		6/20/98	0805		water						X			3	Rinse Blank -01
AL188		6/20/98	0945		ground water						X			3	-02
AL189		6/20/98	1045		ground water						X			3	-03
AL190		6/20/98	1145		ground water						X			3	-04
AL807		6/20/98	1145		ground water						X			3	<del>XXXXXXXXXX</del> -05
AL191		6/20/98	1300		ground water						X			3	-06
KES															

m/e/e = methane, ethane, ethene

Sampled and Relinquished by  
Sign *[Signature]*  
Print *Kenny Smith*  
Firm *Parsons ES*  
Date *6/22/98* Time *1000*

Received by  
Sign *[Signature]*  
Print *Jerry Dechart*  
Firm *EAL*  
Date *6/23/98* Time *10:30*

VOA Vial X  
Glass Bottle  
Plastic Bottle  
Preservative A  
C  
Container Volume 40 mL

REMARKS: (Sample storage, nonstandard sample bottles)  
**End of Sampling**  
Return cooler to  
**Parsons ES**  
30 Dan Rd  
Canton, MA

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 HNO<sub>3</sub> G - Other  
B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

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

Cooler #: **ES-12**

EVERGREEN ANALYTICAL, INC.  
 4036 Youngfield St. Wheat Ridge, CO 80033  
 (303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL805	Client Project No.	: 730769.01006
Lab Sample Number	: 98-2615-01	Lab Work Order	: 98-2615
Date Sampled	: 6/20/98	Dilution Factor	: 1.00
Date Received	: 6/23/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626018

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	: <u>74.2 F</u>	Saturation	Meth	<u>0</u>
Amount Injected	: <u>0.5 ml</u>	Concentration		
Total Volume of Sample	: <u>43 ml</u>	Concentration	Meth	<u>0</u>
Head space created	: <u>4 ml</u>	in Head Space		
Methane Area	: <u>0 ug</u>	Saturation	Etha	<u>0</u>
Ethane Area	: <u>0 ug</u>	Concentration		
Ethene Area	: <u>0 ug</u>	Concentration	Etha	<u>0</u>
Atomic weight(Methane)	: <u>16 g</u>	in Head Space		
Atomic weight(Ethane)	: <u>30 g</u>	Saturation	Ethe	<u>0</u>
Atomic weight(Ethene)	: <u>28 g</u>	Concentration		
		Concentration	Ethe	<u>0</u>
		in Head Space		

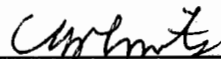
**Qualifiers**

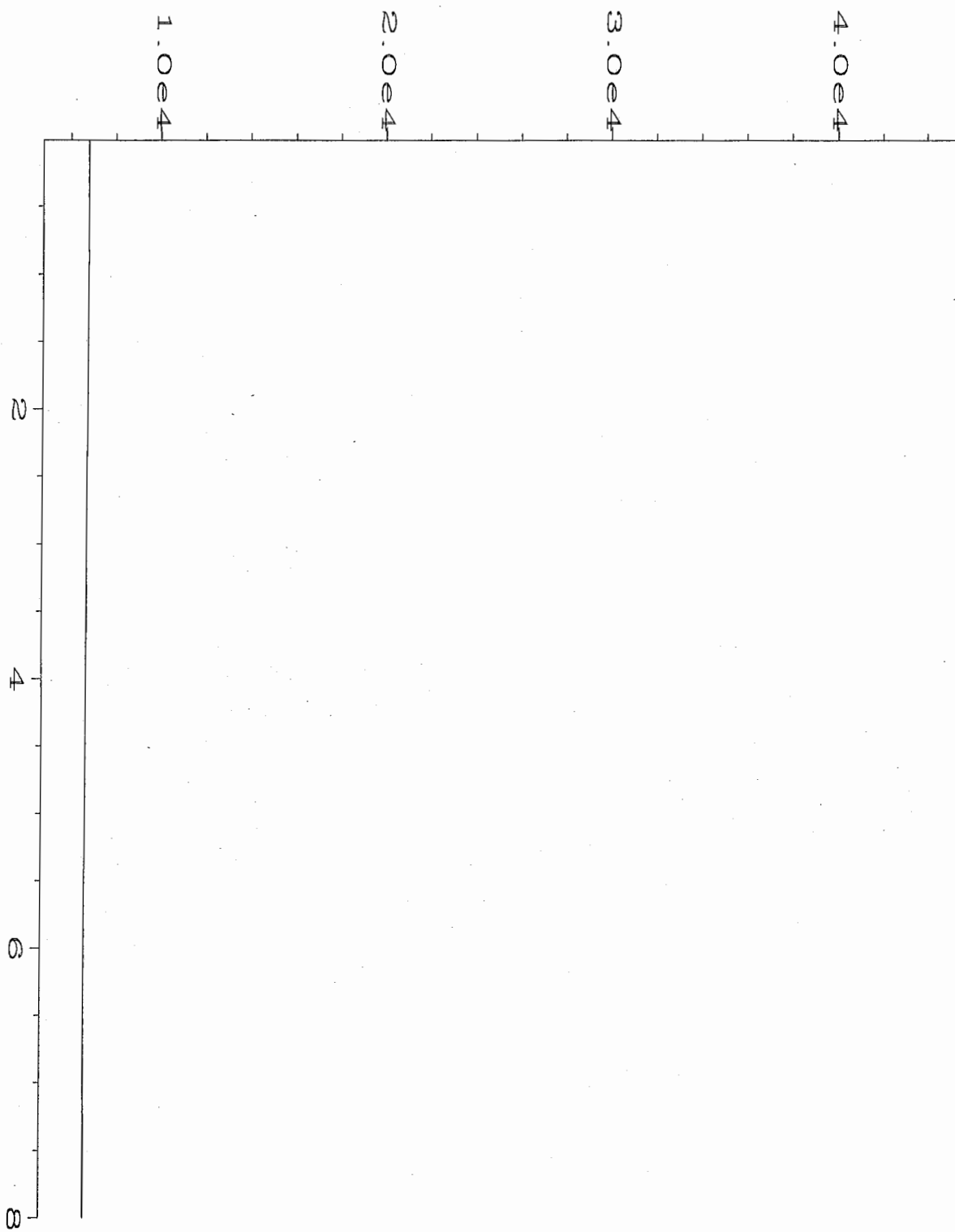
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\018R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 18
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2615-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 10:40 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:03 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL805		
	DF=1		

EVERGREEN ANALYTICAL, INC.  
 4036 Youngfield St. Wheat Ridge, CO 80033  
 (303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL188	Client Project No.	: 730769.01006
Lab Sample Number	: 98-2615-02	Lab Work Order	: 98-2615
Date Sampled	: 6/20/98	Dilution Factor	: 1.00
Date Received	: 6/23/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626019

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.038	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 74.3 F	Saturation	Meth	0.009224836
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.028940169
Head space created	: 4 ml	in Head Space		
Methane Area	: 214.519 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		

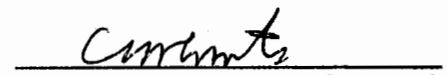
**Qualifiers**

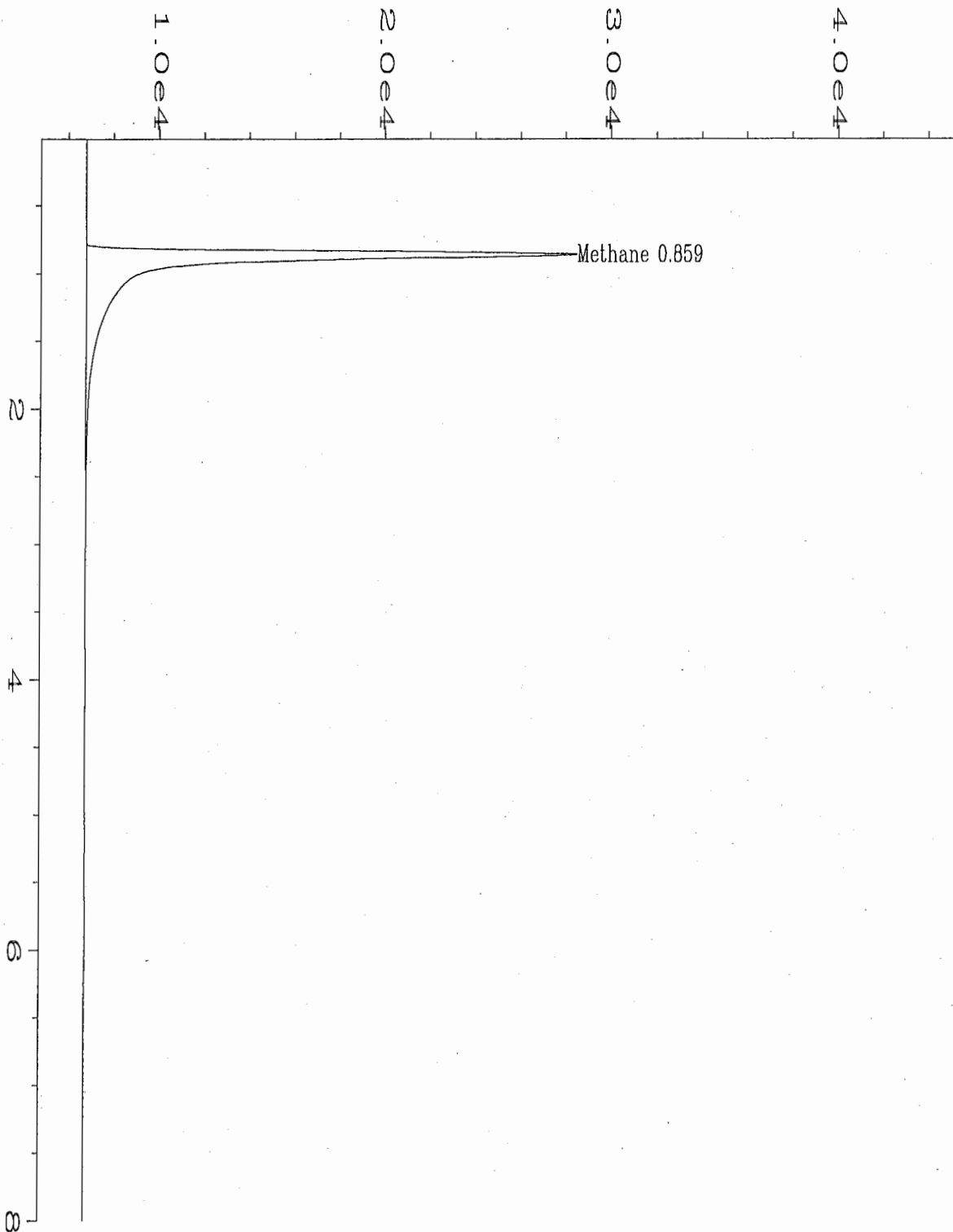
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 Analyst

  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\019R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 19
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2615-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 10:50 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:03 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL188		
	DF=1		



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4036 Youngfield St. Wheat Ridge, CO 80033  
(303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL189	Client Project No.	: 730769.01006
Lab Sample Number	: 98-2615-03	Lab Work Order	: 98-2615
Date Sampled	: 6/20/98	Dilution Factor	: 1.00
Date Received	: 6/23/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626020

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.011	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: <u>74.3</u> F	Saturation	Meth	<u>0.00265841</u>
Amount Injected	: <u>0.5</u> ml	Concentration		
Total Volume of Sample	: <u>43</u> ml	Concentration	Meth	<u>0.008339966</u>
Head space created	: <u>4</u> ml	in Head Space		
Methane Area	: <u>61.82</u> ug	Saturation	Etha	<u>0</u>
Ethane Area	: <u>0</u> ug	Concentration		
Ethene Area	: <u>0</u> ug	Concentration	Etha	<u>0</u>
Atomic weight(Methane)	: <u>16</u> g	in Head Space		
Atomic weight(Ethane)	: <u>30</u> g	Saturation	Ethe	<u>0</u>
Atomic weight(Ethene)	: <u>28</u> g	Concentration		
		Concentration	Ethe	<u>0</u>
		in Head Space		


**Qualifiers**

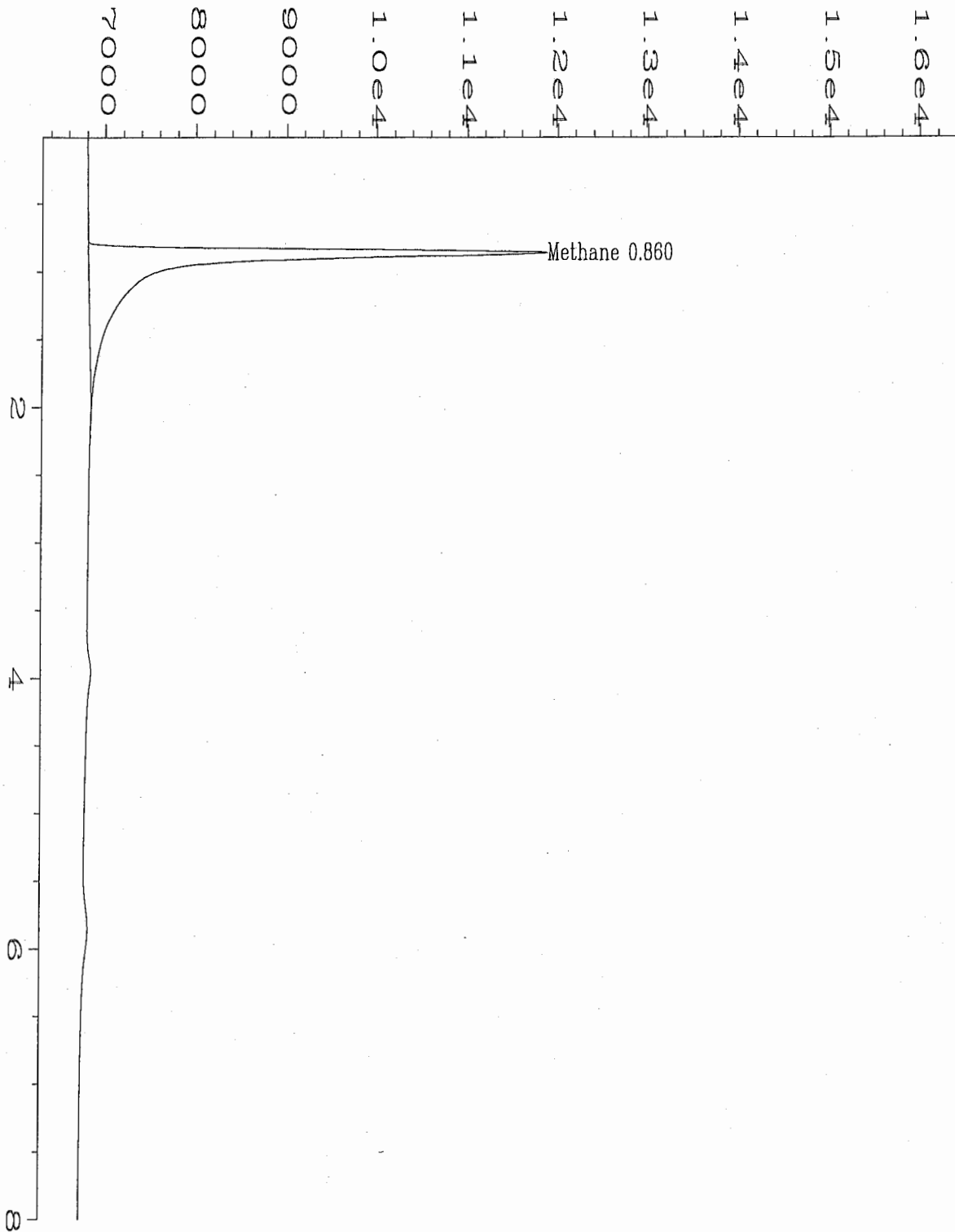
E = Extrapolated value.  
U = Compound analyzed for, but not detected.  
B = Compound also found in the blank.  
RL = Reporting Limit.  
NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\020R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 20
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2615-03A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 11:04 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:03 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL189		
	DF=1		

EVERGREEN ANALYTICAL, INC.  
 4036 Youngfield St. Wheat Ridge, CO 80033  
 (303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL190	Client Project No.	: 730769.01006
Lab Sample Number	: 98-2615-04	Lab Work Order	: 98-2615
Date Sampled	: 6/20/98	Dilution Factor	: 1.00
Date Received	: 6/23/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626021

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	: <u>74.4 F</u>	Saturation	Meth	<u>0</u>
Amount Injected	: <u>0.5 ml</u>	Concentration		
Total Volume of Sample	: <u>43 ml</u>	Concentration	Meth	<u>0</u>
Head space created	: <u>4 ml</u>	in Head Space		
Methane Area	: <u>0 ug</u>	Saturation	Etha	<u>0</u>
Ethane Area	: <u>0 ug</u>	Concentration		
Ethene Area	: <u>0 ug</u>	Concentration	Etha	<u>0</u>
Atomic weight(Methane)	: <u>16 g</u>	in Head Space		
Atomic weight(Ethane)	: <u>30 g</u>	Saturation	Ethe	<u>0</u>
Atomic weight(Ethene)	: <u>28 g</u>	Concentration		
		Concentration	Ethe	<u>0</u>
		in Head Space		

**Qualifiers**

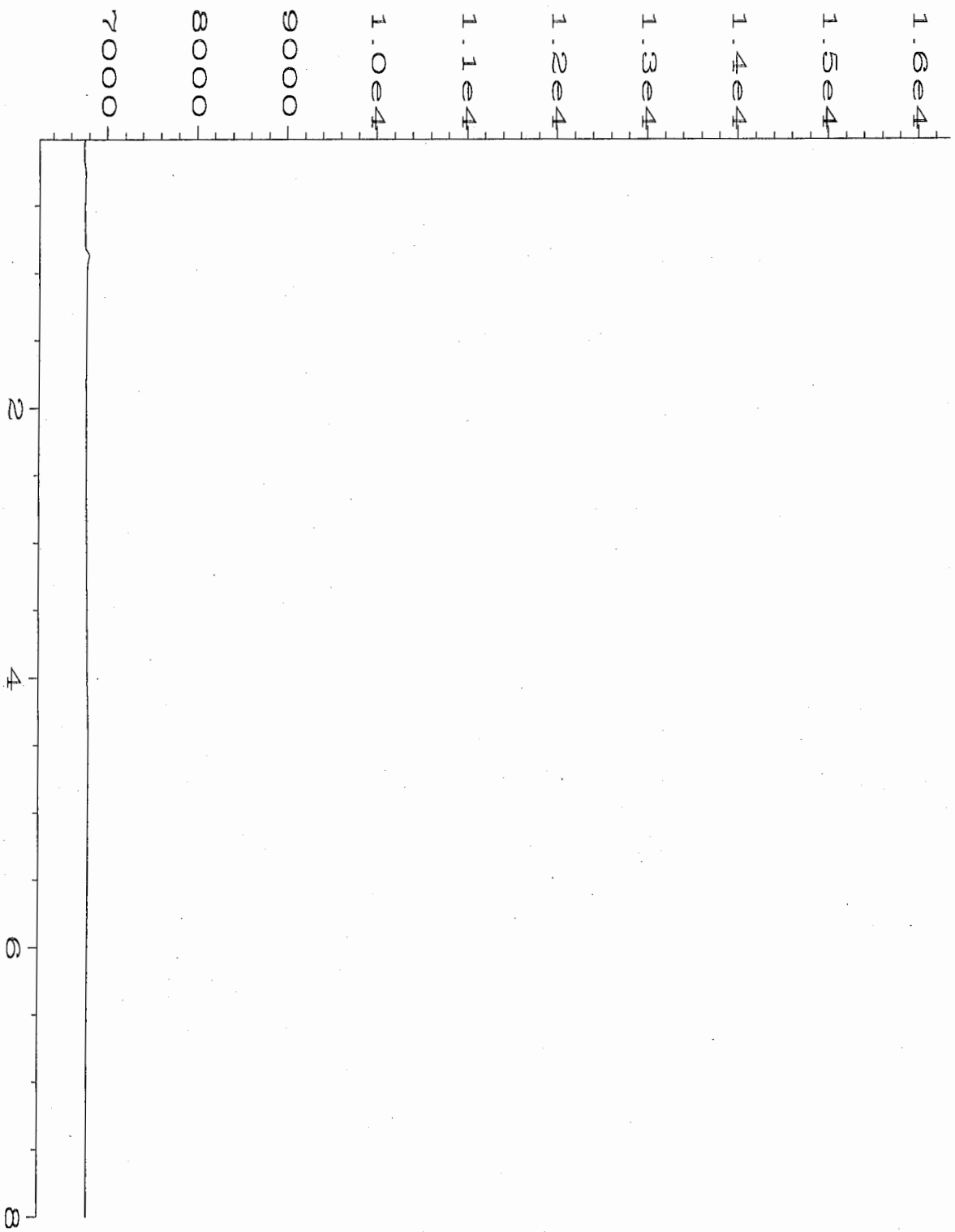
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\021R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 21
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2615-04A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 11:13 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:03 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL190		
	DF=1		

EVERGREEN ANALYTICAL, INC.  
4036 Youngfield St. Wheat Ridge, CO 80033  
(303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL807	Client Project No.	: 730769.01006
Lab Sample Number	: 98-2615-05	Lab Work Order	: 98-2615
Date Sampled	: 6/20/98	Dilution Factor	: 1.00
Date Received	: 6/23/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626022

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

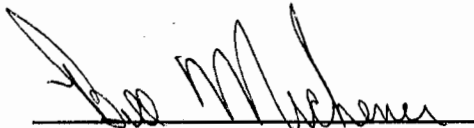
Temperature	: <u>74.3</u> F	Saturation	Meth	: <u>0</u>
Amount Injected	: <u>0.5</u> ml	Concentration		
Total Volume of Sample	: <u>43</u> ml	Concentration	Meth	: <u>0</u>
Head space created	: <u>4</u> ml	in Head Space		
Methane Area	: <u>0</u> ug	Saturation	Etha	: <u>0</u>
Ethane Area	: <u>0</u> ug	Concentration		
Ethene Area	: <u>0</u> ug	Concentration	Etha	: <u>0</u>
Atomic weight(Methane)	: <u>16</u> g	in Head Space		
Atomic weight(Ethane)	: <u>30</u> g	Saturation	Ethe	: <u>0</u>
Atomic weight(Ethene)	: <u>28</u> g	Concentration		
		Concentration	Ethe	: <u>0</u>
		in Head Space		

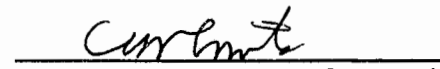
**Qualifiers**

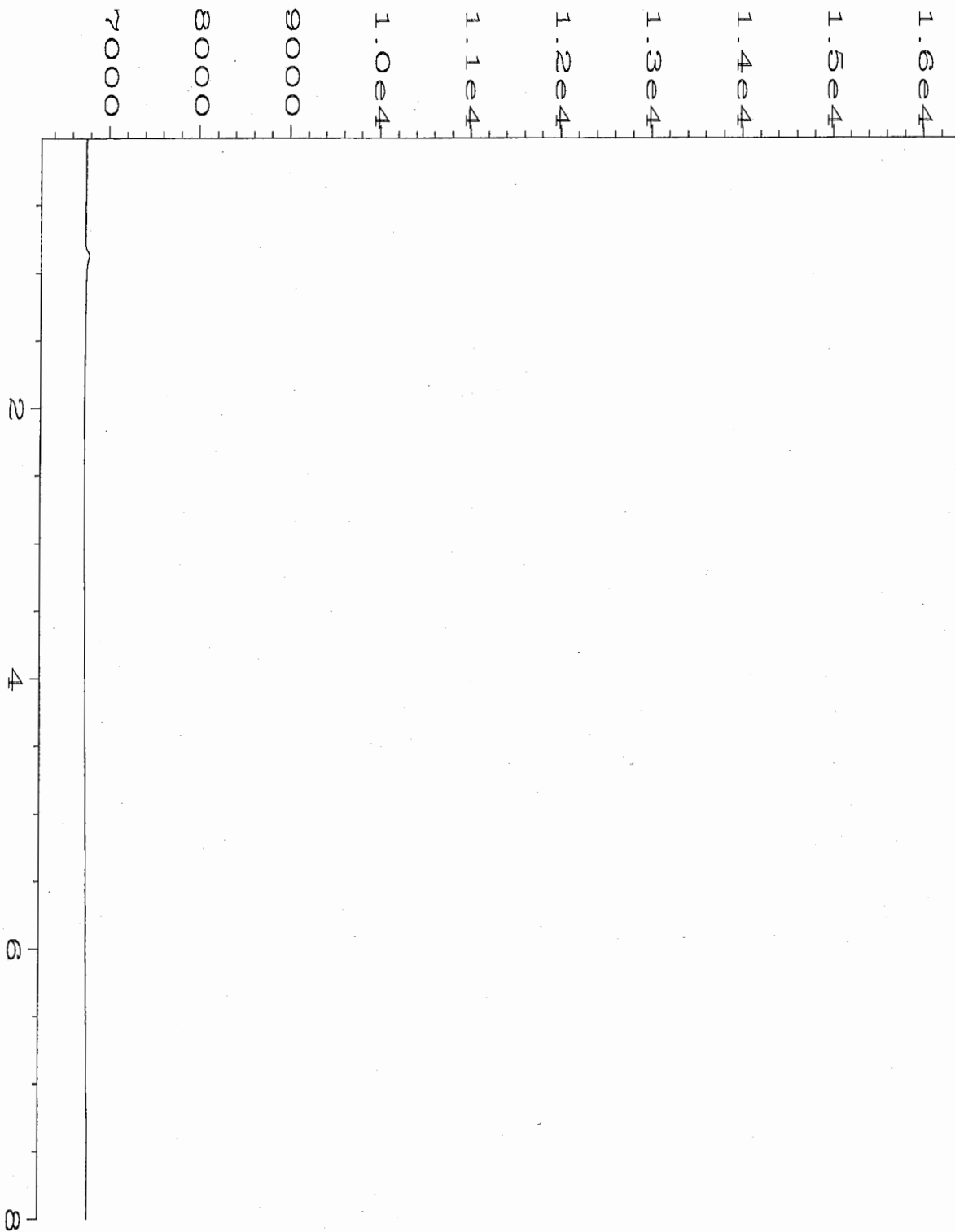
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\022R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 22
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2615-05A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 11:27 AM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 01:03 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL807		
	DF=1		

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL191	Client Project No.	: 730769.01006
Lab Sample Number	: 98-2615-06	Lab Work Order	: 98-2615
Date Sampled	: 6/20/98	Dilution Factor	: 1.00
Date Received	: 6/23/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/26/98	Matrix	: Water
Date Analyzed	: 6/26/98	Lab File No.	: GAS0626023

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	: 74.4 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**

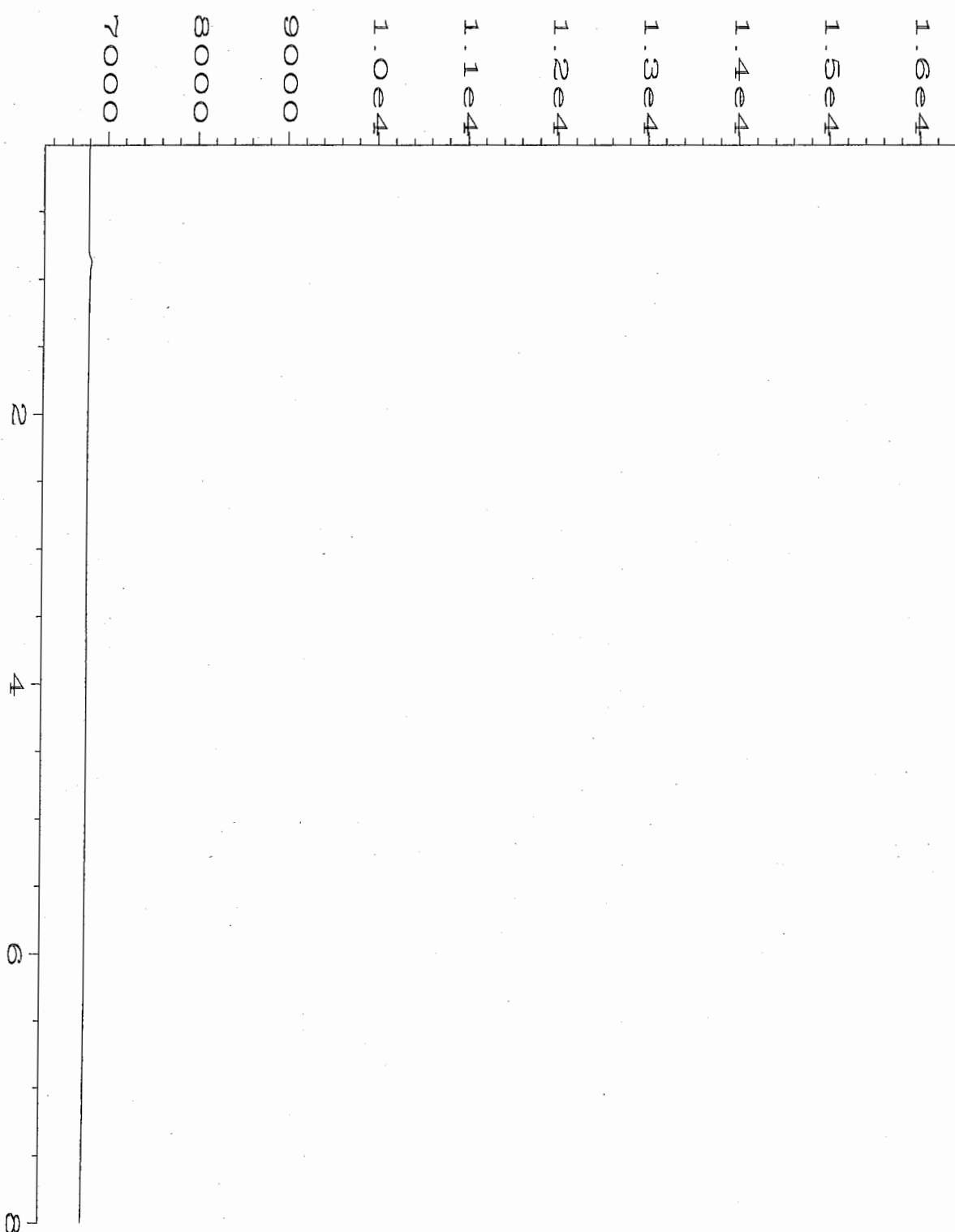
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 Analyst

  
 Approved



Data File Name : C:\HPCHEM\ALGA\DATA\GAS0626\023R0101.D  
 Operator : Leanne Hackney  
 Instrument : ALGA  
 Sample Name : 98-2615-06A  
 Run Time Bar Code:  
 Acquired on : 26 Jun 98 11:36 AM  
 Report Created on: 26 Jun 98 01:03 PM  
 Last Recalib on : 03 SEP 97 11:40 AM  
 Multiplier : 1  
 Sample Info : SAMP METHETH  
 AL191  
 DF=1

Page Number : 1  
 Vial Number : 23  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: GAS.MTH  
 Analysis Method : GAS0625.MTH  
 Sample Amount : 0  
 ISTD Amount :



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(303) 425-6021


**Methane, Ethane, Ethene Report Form  
Method Blank Report**

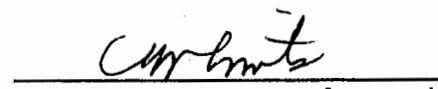
Method Blank Number	: GB062698	Client Project No.	: 730769.01006
Date Extracted/Prepared	: 6/26/98	Lab Work Order	: 98-2615
Date Analyzed	: 6/26/98	Dilution Factor	: 1.00
		Method	: GB062698
		Matrix	: Water
		Lab File No.	: GAS0626005

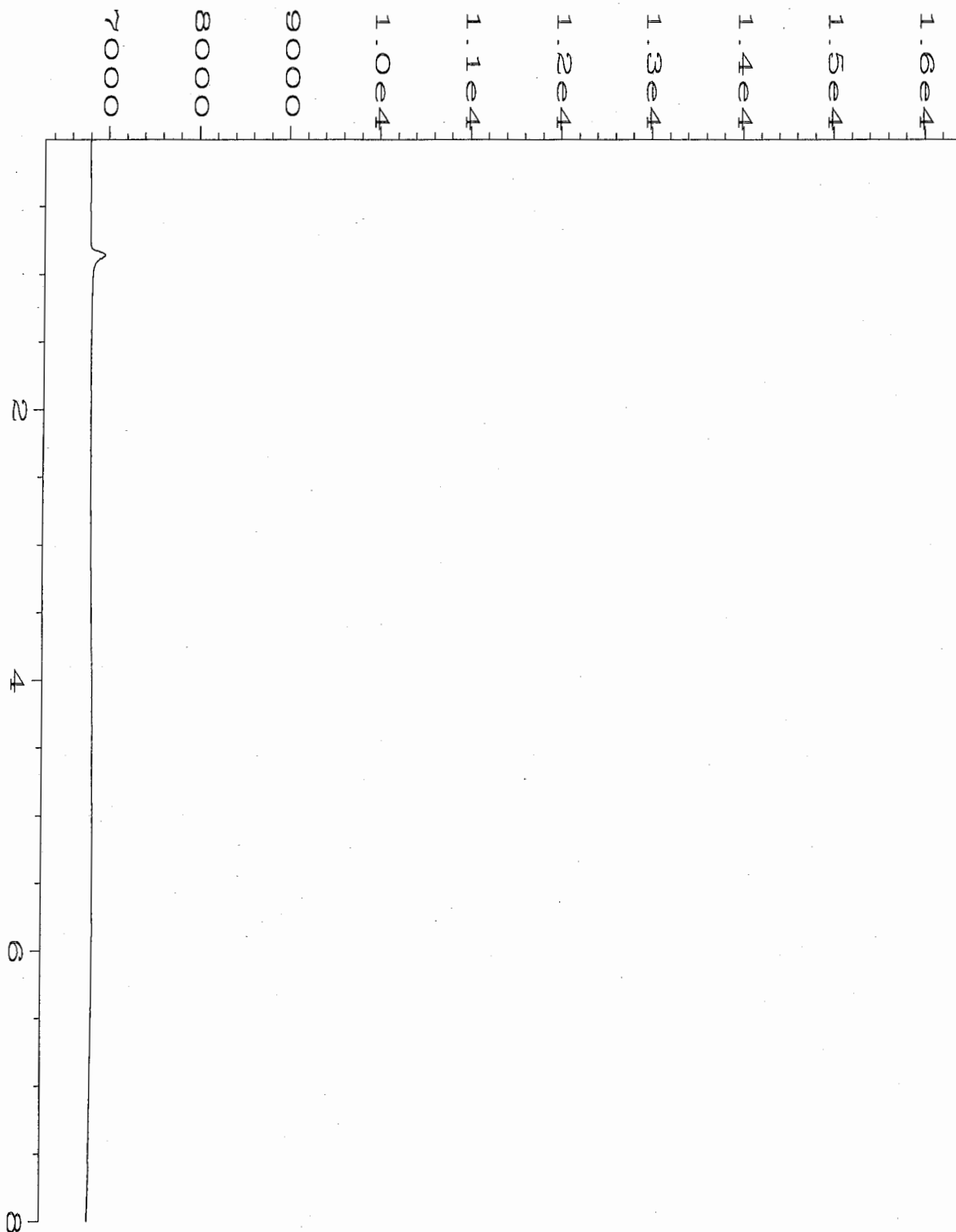
Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	U	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

**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\GAS0626\005R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 5
Instrument	: ALGA	Injection Number	: 1
Sample Name	: GB062698	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 07:47 AM	Analysis Method	: GAS0625.MTH
Report Created on:	29 Jun 98 02:01 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MBLK METHETH		
	Displaced 4ml of distilled water in 43ml vial with Helium, shook for 5 min. and injected 500ul.		

**RSK-175M Gas Method**  
**Methane, Ethane, Ethene Gas Matrix Spike / Matrix Spike Duplicate Report**

Client Sample No.	: AL805	Client Project No.	: 730769-01006
Lab Sample No.	: 98-2615-01	Lab Work Order	: 98-2615
Date Sampled	: 6/20/98	EPA Method No.	: RSKSOP-175M
Date Received	: 6/23/98	Matrix	: Water
Date Prepared	: 6/26/98	Method Blank	: GB062698
Date Analyzed	: 6/26/98	Lab File No's.	: GAS0626026,027
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	327	65	47-88
Ethene Gas	500	0	185	37	29-53
Ethane Gas	500	0	279	56	41-77

Compound	Spike Added (ug)	MSD Concentration (ug)	MSD %REC	RPD	QC Limits	
					RPD	%REC
Methane Gas	500	309	62	5.7	0-16.4	47-88
Ethene Gas	500	173	35	6.2	0-26.4	29-53
Ethane Gas	500	262	52	6.5	0-26.3	41-77

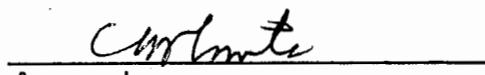
RPD: 0 out of (3) outside limits.  
Spike Recovery: 0 out of (6) outside limits.

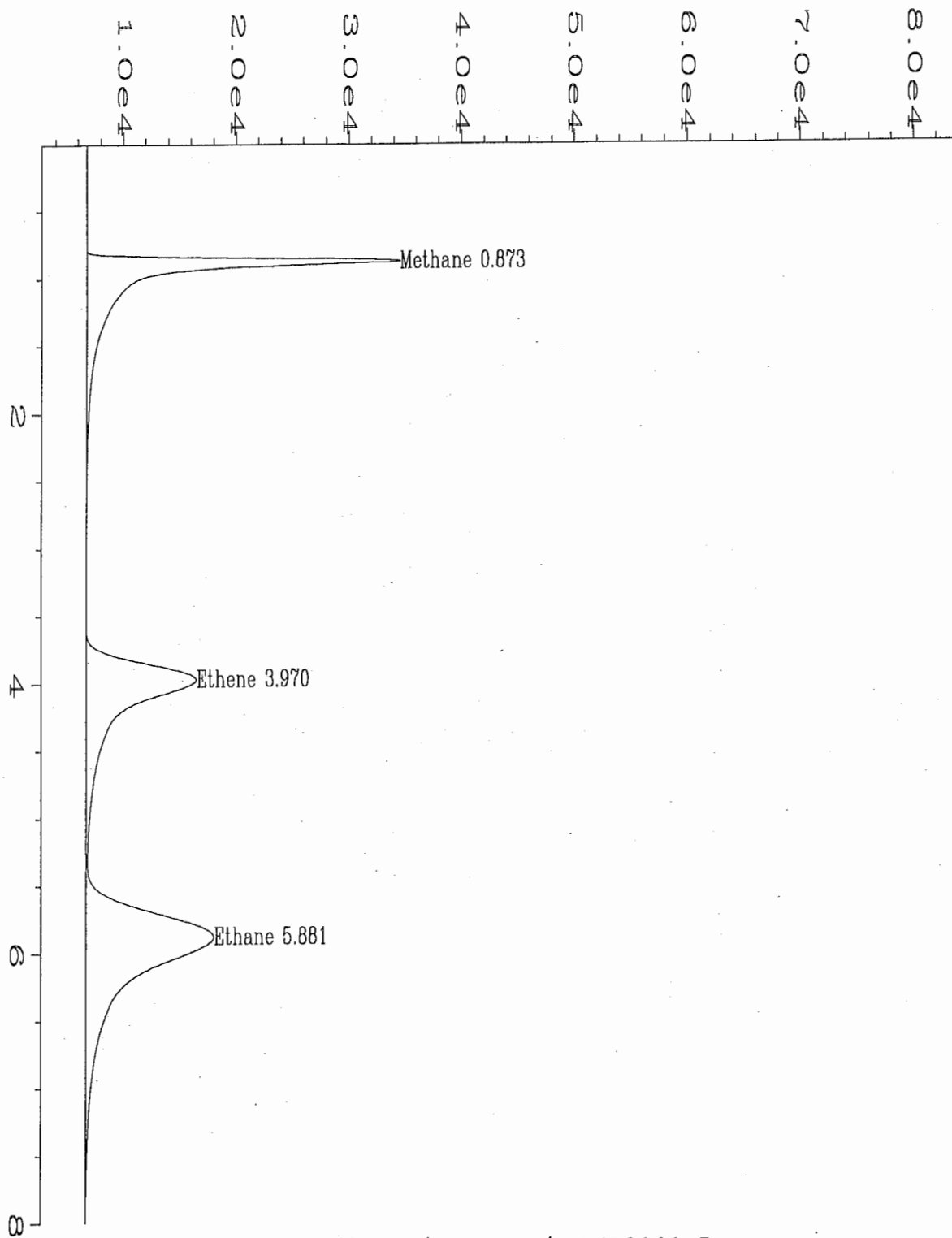
**Notes**

- \* = Values outside of QC limits.
- \*\* = 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.

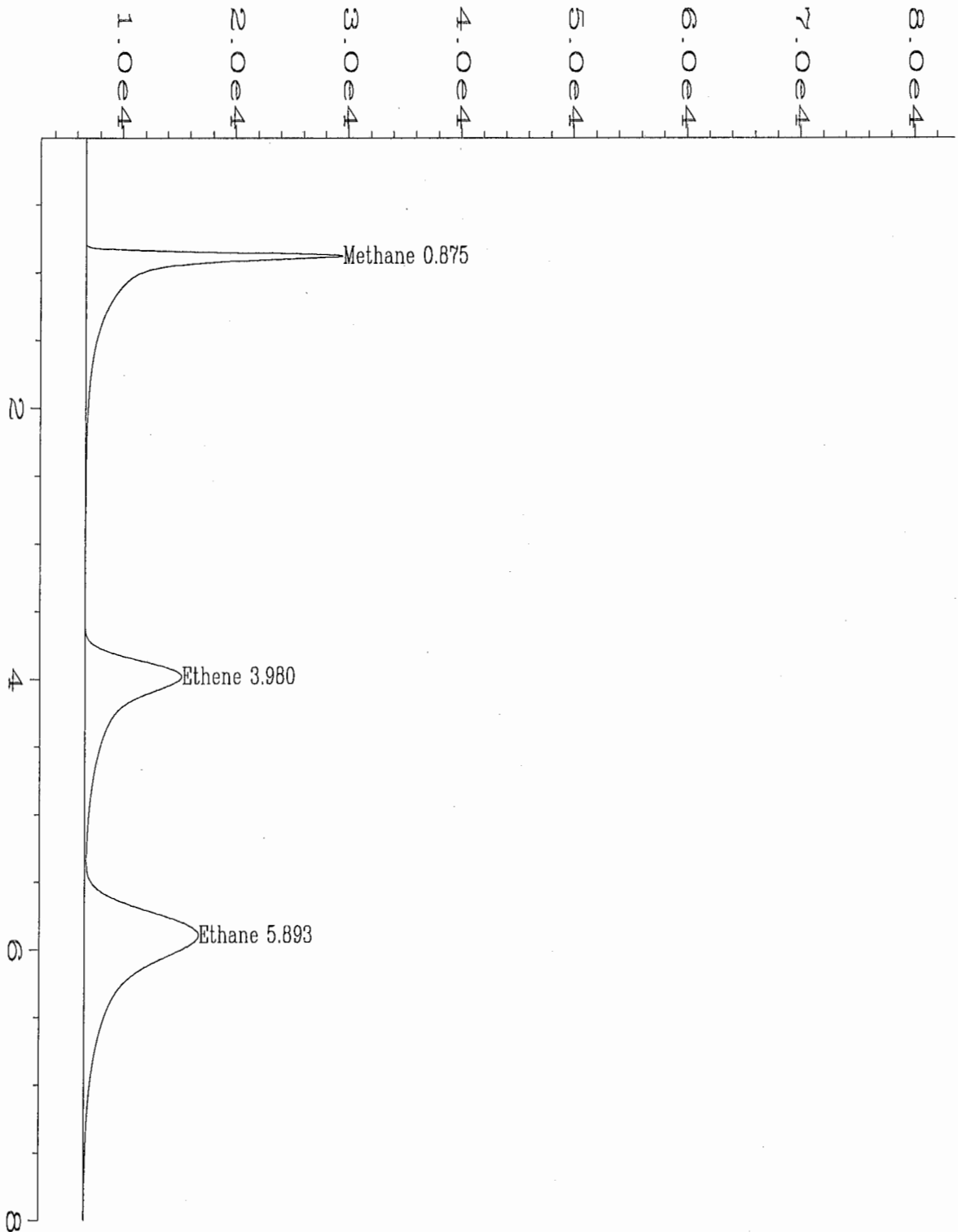
  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



Data File Name : C:\HPCHEM\ALGA\DATA\GAS0626\026R0101.D  
 Operator : Leanne Hackney  
 Instrument : ALGA  
 Sample Name : 98-2615-01AMS  
 Run Time Bar Code :  
 Acquired on : 26 Jun 98 12:15 PM  
 Report Created on : 26 Jun 98 02:09 PM  
 Last Recalib on : 03 SEP 97 11:40 AM  
 Multiplier : 1  
 Sample Info : MS METHETH  
 AL805  
 Displaced 4ml with 1% methane, ethane and ethene gas(#1719).

Page Number : 1  
 Vial Number : 26  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: GAS.MTH  
 Analysis Method : GAS0625.MTH  
 Sample Amount : 0  
 ISTD Amount :



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\027R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 27
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2615-01AMSD	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 12:32 PM	Analysis Method	: GAS0625.MTH
Report Created on:	26 Jun 98 02:09 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: MSD METHETH		
	AL805		
	Displaced 4ml with 1% methane, ethane and ethene gas(#1719).		

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**RSKSOP-175M Gas Method**  
**Methane, Ethane, Ethene LCS Report Form**

LCS No. : LCS062698      EPA Method No. : RSKSOP-175M  
Date Prepared : 6/26/98      Matrix : Water  
Date Analyzed : 6/26/98      Method Blank : GB062698  
E.A. LCS Source No. : 1719      Lab File No. : GAS0626004

Compound	Spike Added (ug)	Method Blank Concentration (ug)	LCS Concentration (ug)	LCS %REC	QC Limits %REC
Methane Gas	500	0	359	72	64-90
Ethene Gas	500	0	222	44	37-58
Ethane Gas	500	0	335	67	53-83


Spike Recovery: 0 out of (3) outside limits.

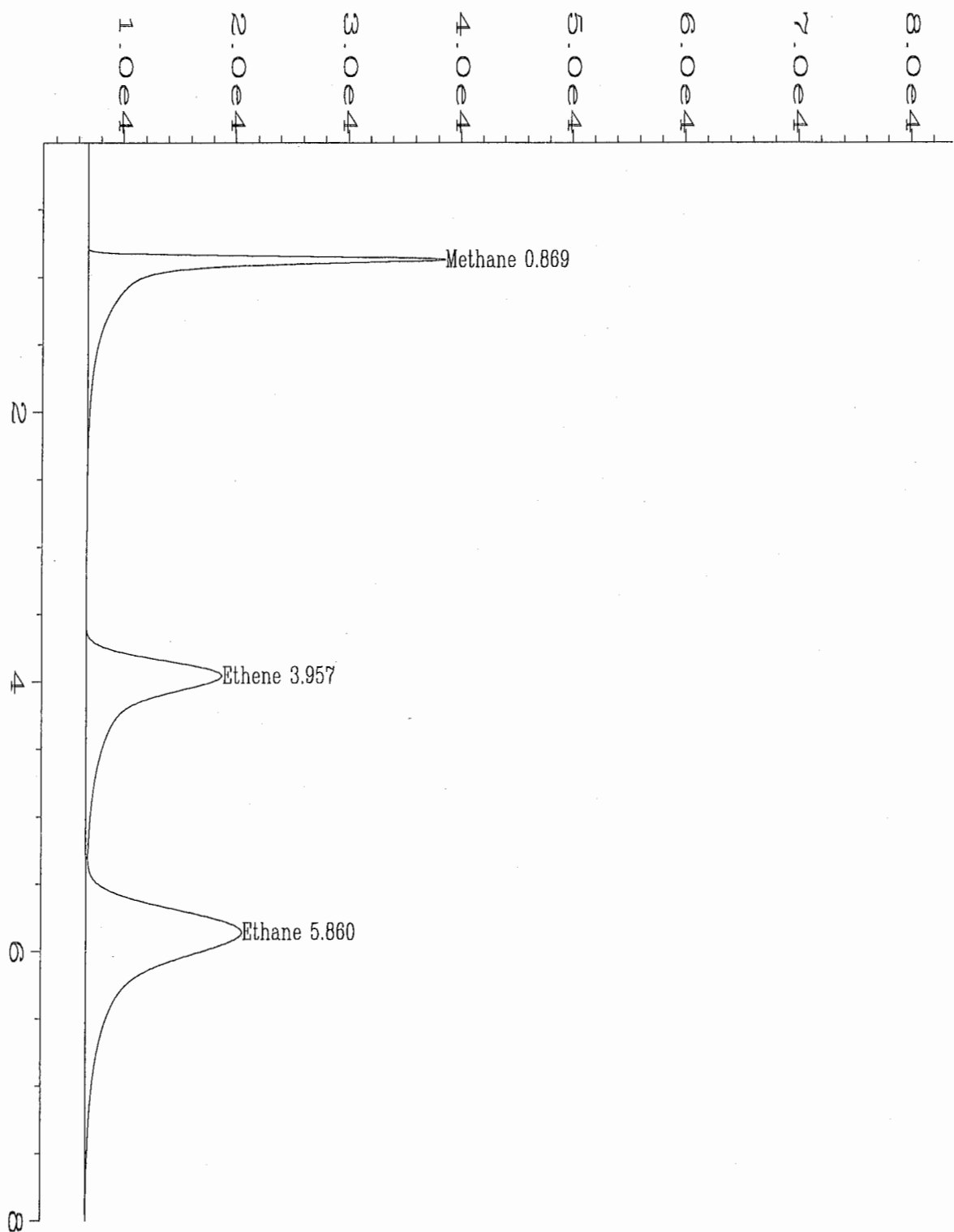
Note: The LCS was made by taking the sample and displacing 4ml of headspace with a 1% methane, ethane, ethene gas and shaking the VOA for 5 minutes. Then injecting 50 ul from the headspace into the GC resulting in a theoretical concentration of 500 ug.

**Notes**

\* = Values outside of QC limits.  
NA = Not analyzed/not available.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0626\004R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 4
Instrument	: ALGA	Injection Number	: 1
Sample Name	: LCS062698	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 26 Jun 98 07:31 AM	Analysis Method	: GAS0625.MTH
Report Created on:	29 Jun 98 02:01 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: LCS METHETH		

Displaced 4ml of distilled water in 43ml vial with 1% methane, ethane, and ethene gas(#1719). shook for 5 min. and



July 02, 1998

MIKE DUCHESNEAU  
PARSONS ENGINEERING SCIENCE  
30 DAN ROAD  
CANTON, MA 02021-2809

Lab Work Order: 98-2561  
Client Project: 730769-01006

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.

**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:** Effective January 1, 1996 we will retain a copy of this project report and supporting data for a period of five years. It has been our experience that a five year retention period is more than adequate to respond to client inquiries. 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

98-2561

## WORK ORDER Summary

23-Jun 10:40 am

Report To: Mike Duchesneau

Client Project ID: 730769-01006

Parsons Engineering Science  
30 Dan Road  
Canton, MA 02021-2809

Phone: (781) 401-3200  
FAX: (781) 401-2575

### Comments:

QC Level: MS/MSD required on Client samples

Sample ID	Client Sample ID	Analysis	#	Matrix	Loc	Collection	Received	Due	HT
98-2561-01A	AL171	Methane. Ethane. Ethene		Water	2	17-Jun-98	19-Jun-98	06-Jul-98	01-Jul-98
98-2561-02A	AL172	Methane. Ethane. Ethene						06-Jul-98	01-Jul-98
98-2561-03A	AL173	Methane. Ethane. Ethene						06-Jul-98	01-Jul-98
98-2561-04A	AL174	Methane. Ethane. Ethene						06-Jul-98	01-Jul-98
98-2561-05A	AL170	Methane. Ethane. Ethene				16-Jun-98	23-Jun-98	06-Jul-98	23-Jun-98

*MR. 1/2/98*

*20*



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. 730769-01006  
PROJECT Seneca 2nd Quarter 1998  
CONTACT Mike Duchesneau

LABORATORY Evergreen Analytical  
ADDRESS Wheat Ridge CO  
CONTACT Shae Greiner

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	P/E/E							
✓ AL170		6/16/98	1800		water						X				3	SAMPLE NOT SENT	
✓ AL171		6/17/98	0930		↓						X				3	-01	
✓ AL172		6/17/98	1020									X				3	-02
✓ AL173		6/17/98	1505									X				3	-03
✓ AL174		6/17/98	1620									X				3	-04
<del>_____</del>																	

WO# 98-2561 BOF# N/A BY JD  
 C/S(O) N/A / N/A C/S(I) C+I / Co  
 Temp°C 3 Seals Intact Y / N / NA  
 Pres Y / N / NA Hd Sp Y / N / NA  
 Loc 2 Cont 4044

Sampled and Relinquished by  
 Sign [Signature]  
 Print Kerry Smith  
 Firm Parson ES  
 Date 6/18/98 Time 0930

Received by  
 Sign [Signature]  
 Print Bornic Magor  
 Firm EAL  
 Date 6/19/98 Time 0910

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

PRESERVATION KEY: C - Acidified with HCl F - NaOH + Ascorbic  
 A - Ice D - Acidified with HNO<sub>3</sub> G - Other  
 B - Filtered E - Acidified with H<sub>2</sub>SO<sub>4</sub>

REMARKS: (Sample storage, nonstandard sample bottles)  
Quartz # 1785

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

Cooler #: 18



EVERGREEN ANALYTICAL, INC.  
 4036 Youngfield St. Wheat Ridge, CO 80033  
 (303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL170	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2561-05	Lab Work Order	: 98-2561
Date Sampled	: 6/16/98	Dilution Factor	: 1.00
Date Received	: 6/23/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/25/98	Matrix	: Water
Date Analyzed	: 6/25/98	Lab File No.	: GAS0625024

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0019	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025

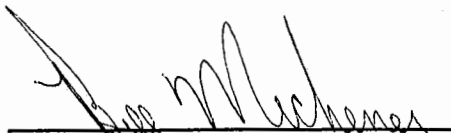
Temperature	: 73.6 F	Saturation	Meth	0.00046692
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.001466747
Head space created	: 4 ml	in Head Space		
Methane Area	: 10.858 ug	Saturation	Etha	0
Ethane Area	: 0 ug	Concentration		
Ethene Area	: 0 ug	Concentration	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		

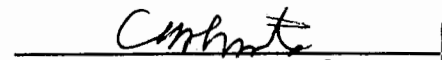
**Qualifiers**

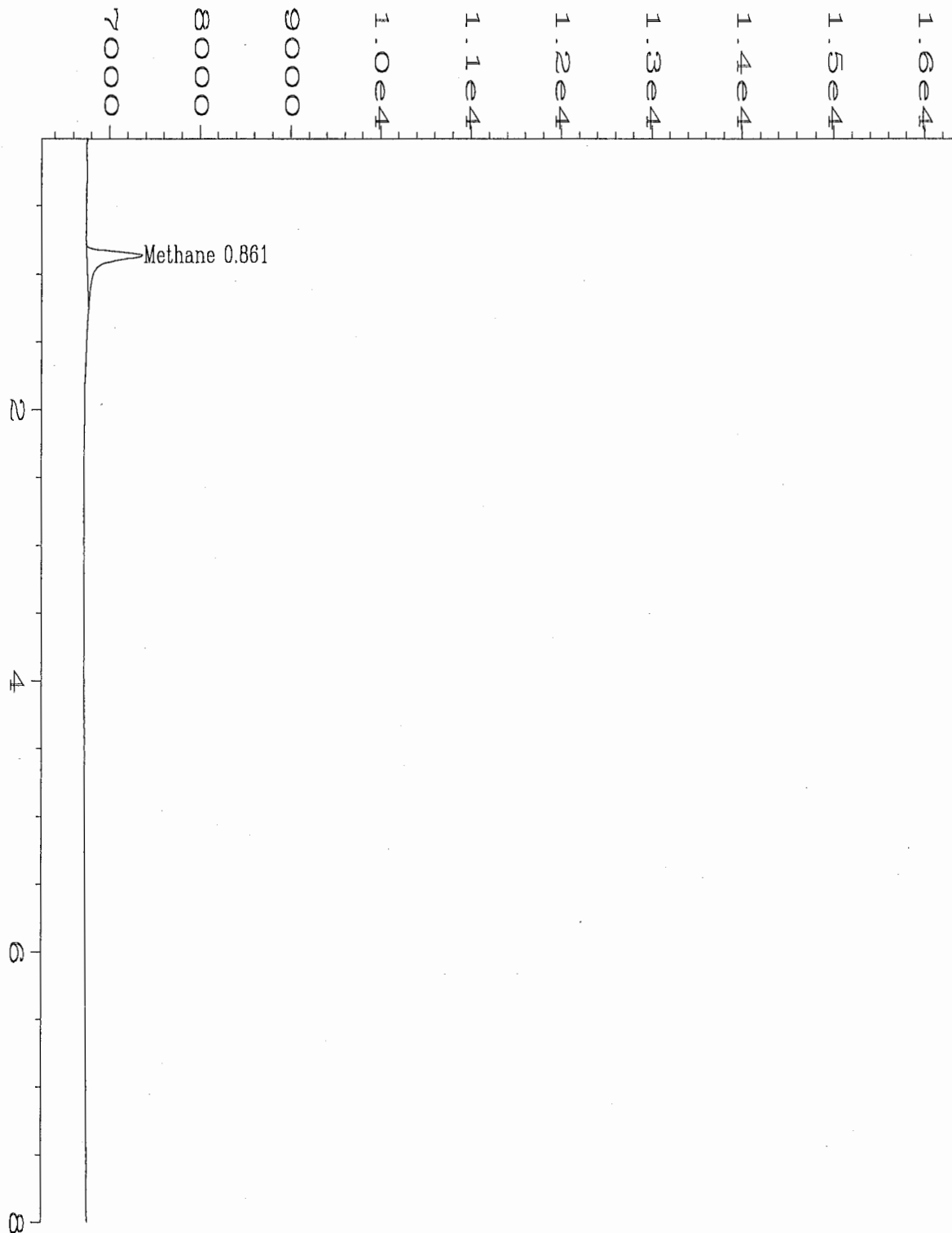
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0625\024R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 24
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2561-05A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 25 Jun 98 12:29 PM	Analysis Method	: GAS0625.MTH
Report Created on:	25 Jun 98 03:24 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL170		
	DF=1		

**EVERGREEN ANALYTICAL, INC.**  
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**(303) 425-6021**

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL171	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2561-01	Lab Work Order	: 98-2561
Date Sampled	: 6/17/98	Dilution Factor	: 1.00
Date Received	: 6/19/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/25/98	Matrix	: Water
Date Analyzed	: 6/25/98	Lab File No.	: GAS0625020

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.014	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 73.0 F	Saturation	Meth	0.003366832
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.010588219
Head space created	: 4 ml	in Head Space		
Methane Area	: 78.294 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**

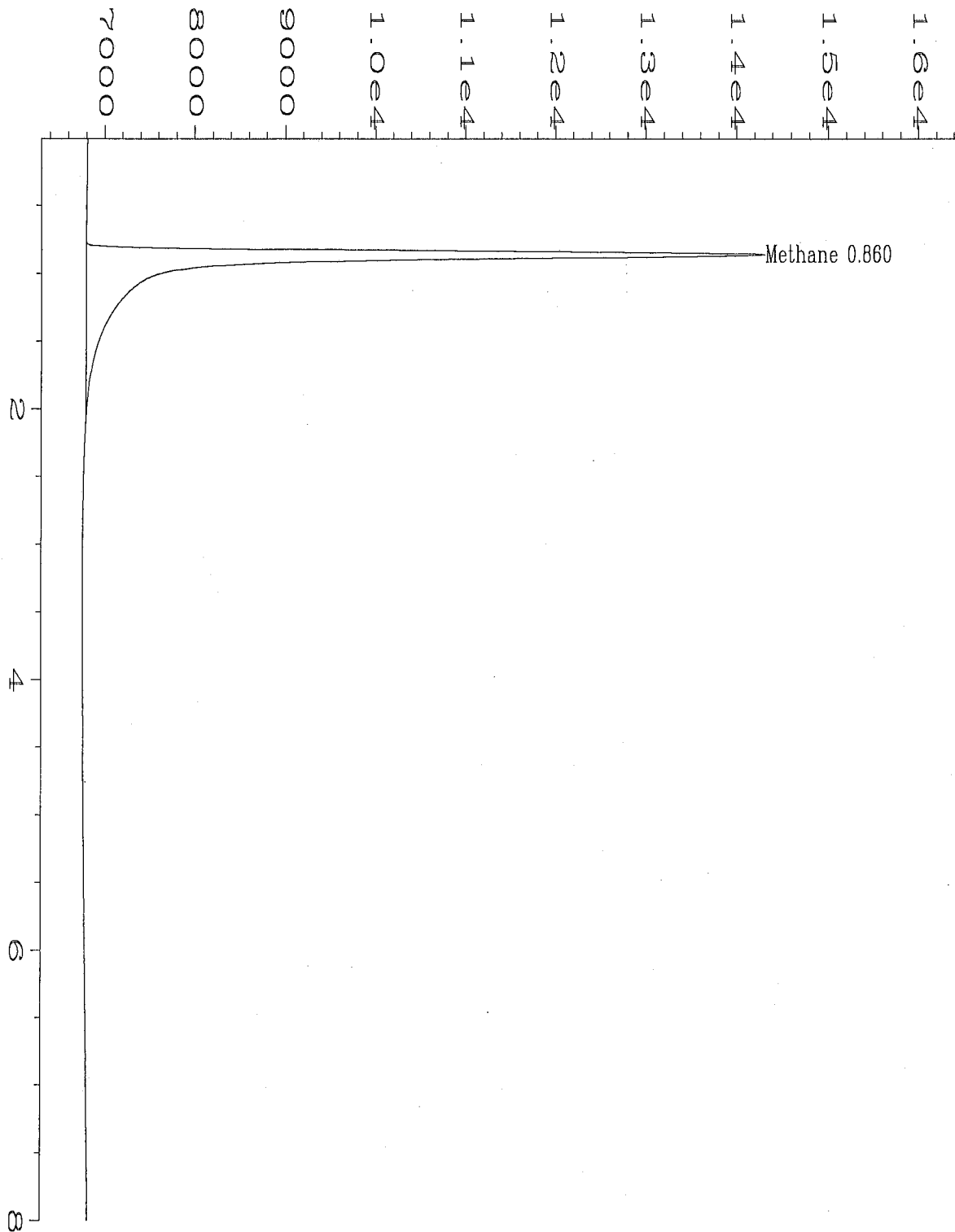
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 Analyst

  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0625\020R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 20
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2561-01A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 25 Jun 98 11:51 AM	Analysis Method	: GAS0625.MTH
Report Created on:	25 Jun 98 03:23 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL171		
	DF=1		

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 (303) 425-6021

**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL172	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2561-02	Lab Work Order	: 98-2561
Date Sampled	: 6/17/98	Dilution Factor	: 1.00
Date Received	: 6/19/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/25/98	Matrix	: Water
Date Analyzed	: 6/25/98	Lab File No.	: GAS0625021

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	: 73.0 F	Saturation	Meth	: 0
Amount Injected	: 0.5 ml	Concentration	Meth	: 0
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.

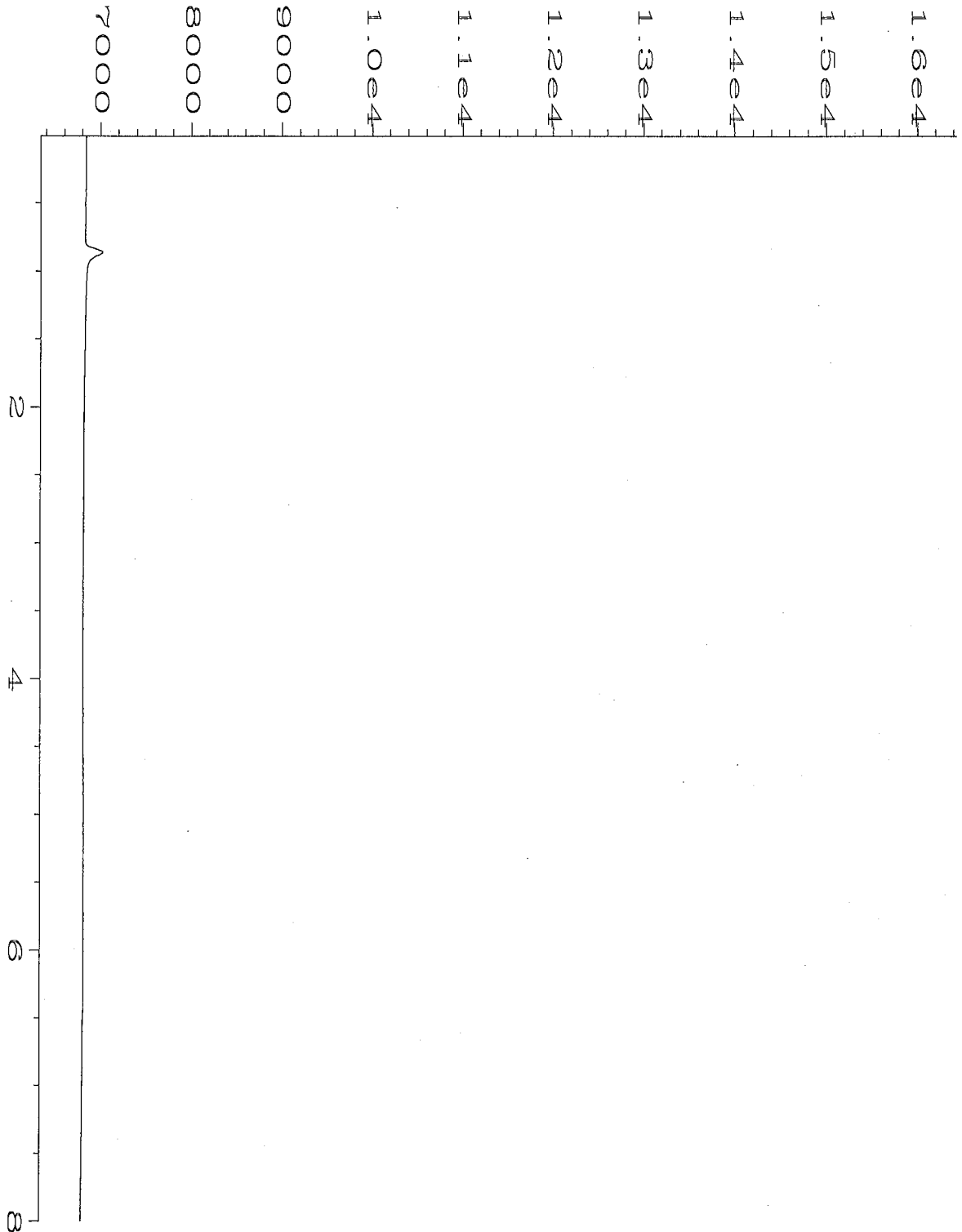
**Note**

Pressure calculated at sea level.

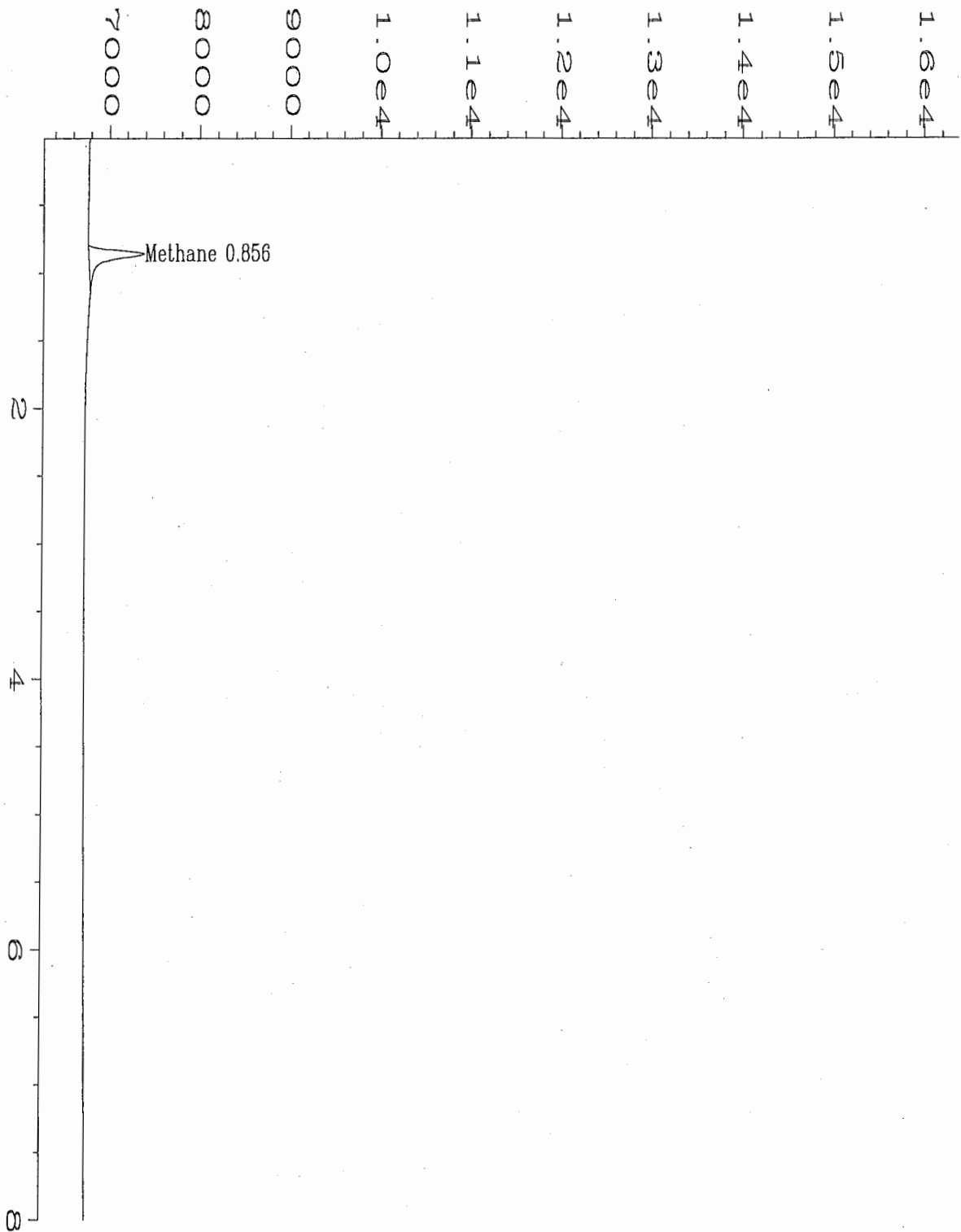
  
 Analyst

  
 Approved





Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0625\021R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 21
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2561-02A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 25 Jun 98 12:01 PM	Analysis Method	: GAS0625.MTH
Report Created on:	25 Jun 98 03:23 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL172		
	DF=1		



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0625\022R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 22
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2561-03A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: GAS.MTH
Acquired on	: 25 Jun 98 12:10 PM	Analysis Method	: GAS0625.MTH
Report Created on:	25 Jun 98 03:24 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL173		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL174	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2561-04	Lab Work Order	: 98-2561
Date Sampled	: 6/17/98	Dilution Factor	: 1.00
Date Received	: 6/19/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/25/98	Matrix	: Water
Date Analyzed	: 6/25/98	Lab File No.	: GAS0625023

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		

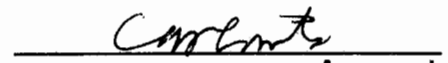
**Qualifiers**

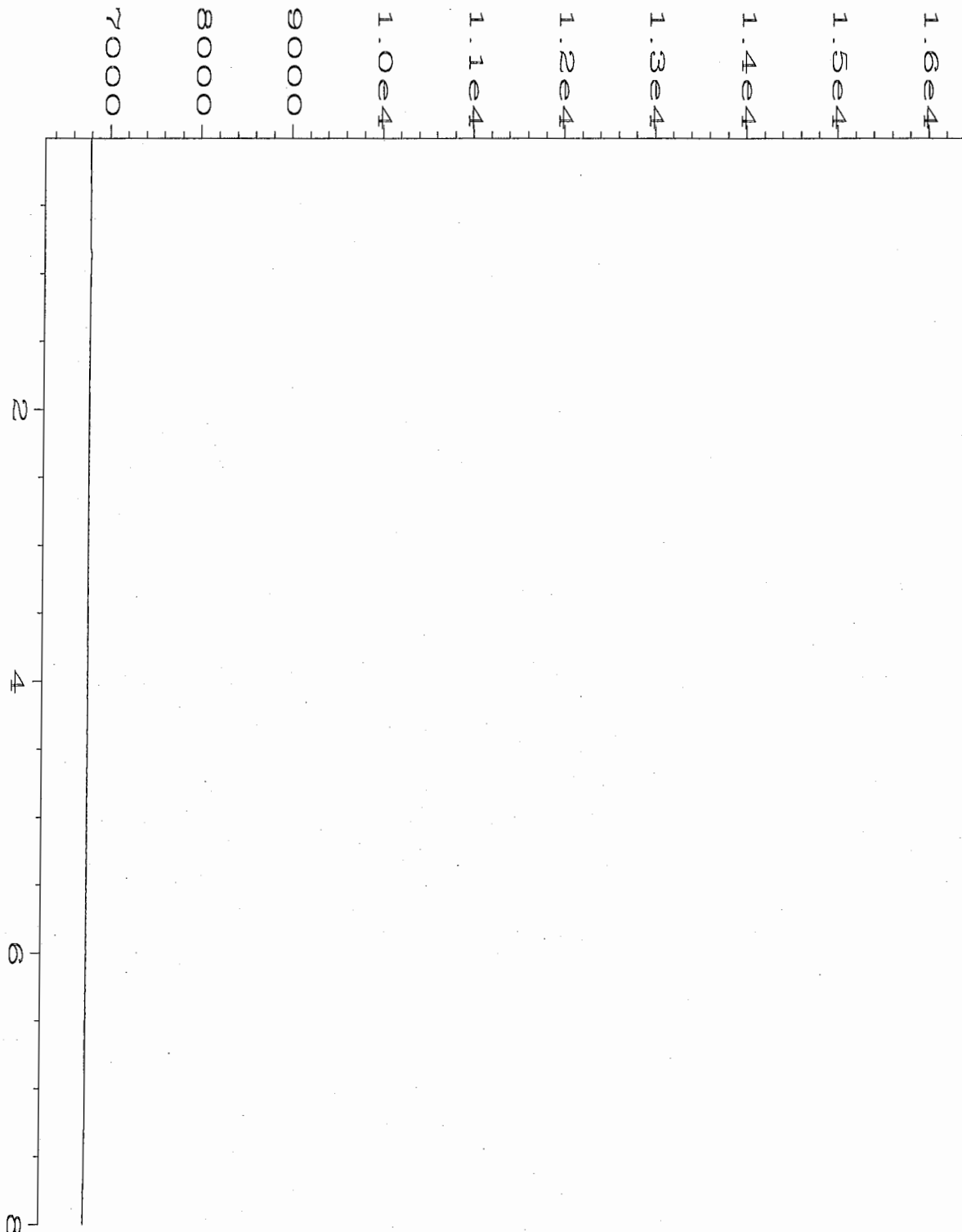
E = Extrapolated value.  
 U = Compound analyzed for, but not detected.  
 B = Compound also found in the blank.  
 RL = Reporting Limit.  
 NA = Not Available/Not Applicable.

**Note**

Pressure calculated at sea level.

  
 \_\_\_\_\_  
 Analyst

  
 \_\_\_\_\_  
 Approved



Data File Name	: C:\HPCHEM\ALGA\DATA\GAS0625\023R0101.D	Page Number	: 1
Operator	: Leanne Hackney	Vial Number	: 23
Instrument	: ALGA	Injection Number	: 1
Sample Name	: 98-2561-04A	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	GAS.MTH
Acquired on	: 25 Jun 98 12:20 PM	Analysis Method	: GAS0625.MTH
Report Created on:	25 Jun 98 03:24 PM	Sample Amount	: 0
Last Recalib on	: 03 SEP 97 11:40 AM	ISTD Amount	:
Multiplier	: 1		
Sample Info	: SAMP METHETH		
	AL174		
	DF=1		

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**Methane, Ethane, Ethene Report Form**

Client Sample Number	: AL173	Client Project No.	: 730769-01006
Lab Sample Number	: 98-2561-03	Lab Work Order	: 98-2561
Date Sampled	: 6/17/98	Dilution Factor	: 1.00
Date Received	: 6/19/98	Method	: RSKSOP-175M
Date Extracted/Prepared	: 6/25/98	Matrix	: Water
Date Analyzed	: 6/25/98	Lab File No.	: GAS0625022

Compound Name	Cas Number	Sample Concentration mg/L	RL mg/L
Methane	74-82-8	0.0018	0.0012
Ethane	74-84-0	U	0.0021
Ethene	74-85-1	U	0.0025


Temperature	: 72.9 F	Saturation	Meth	0.000439829
Amount Injected	: 0.5 ml	Concentration		
Total Volume of Sample	: 43 ml	Concentration	Meth	0.00138346
Head space created	: 4 ml	in Head Space		
Methane Area	: 10.228 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		

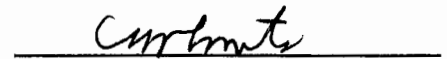
**Qualifiers**

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

