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**GROUNDWATER MONITORING REPORT  
ASH LANDFILL  
SECOND QUARTER 2002**

Prepared for:

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## FIGURES

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**APPENDICES**

**APPENDIX A            GROUNDWATER ELEVATION DATA**  
Field Data Sheets

**APPENDIX B            SECOND QUARTER 2002 LABORATORY REPORTS**  
Severn Trent Labs (STL)  
Vaportech Services, Inc.

**APPENDIX C            HISTORICAL GROUNDWATER ANALYTICAL DATA**





## **1 INTRODUCTION**

This report summarizes results of Second Quarter 2002 (2Q 2002) groundwater sampling and monitoring activities at the Ash Landfill Operable Unit (Ash Landfill) of the Seneca Army Depot Activity (SEDA), Romulus, New York. The goal of groundwater monitoring at the Ash Landfill is to monitor the extent of the well-defined chlorinated ethene contaminant plume at this operable unit. This work was performed in accordance with the requirements of Delivery Order 0006 of Contract DACA87-95-D-0031, Optional Task No. 5.

Previously collected groundwater data is combined with information collected during the 2Q 2002 sampling event to evaluate flow and chemistry in the shallow groundwater aquifer at the Ash Landfill. Section 2.0 provides a summary of quarterly monitoring activities, Section 3.0 provides a summary of monitoring results, and Section 4.0 summarizes the results and conclusions drawn from the 2Q 2002 sampling and monitoring event.

## **2 QUARTERLY MONITORING ACTIVITIES**

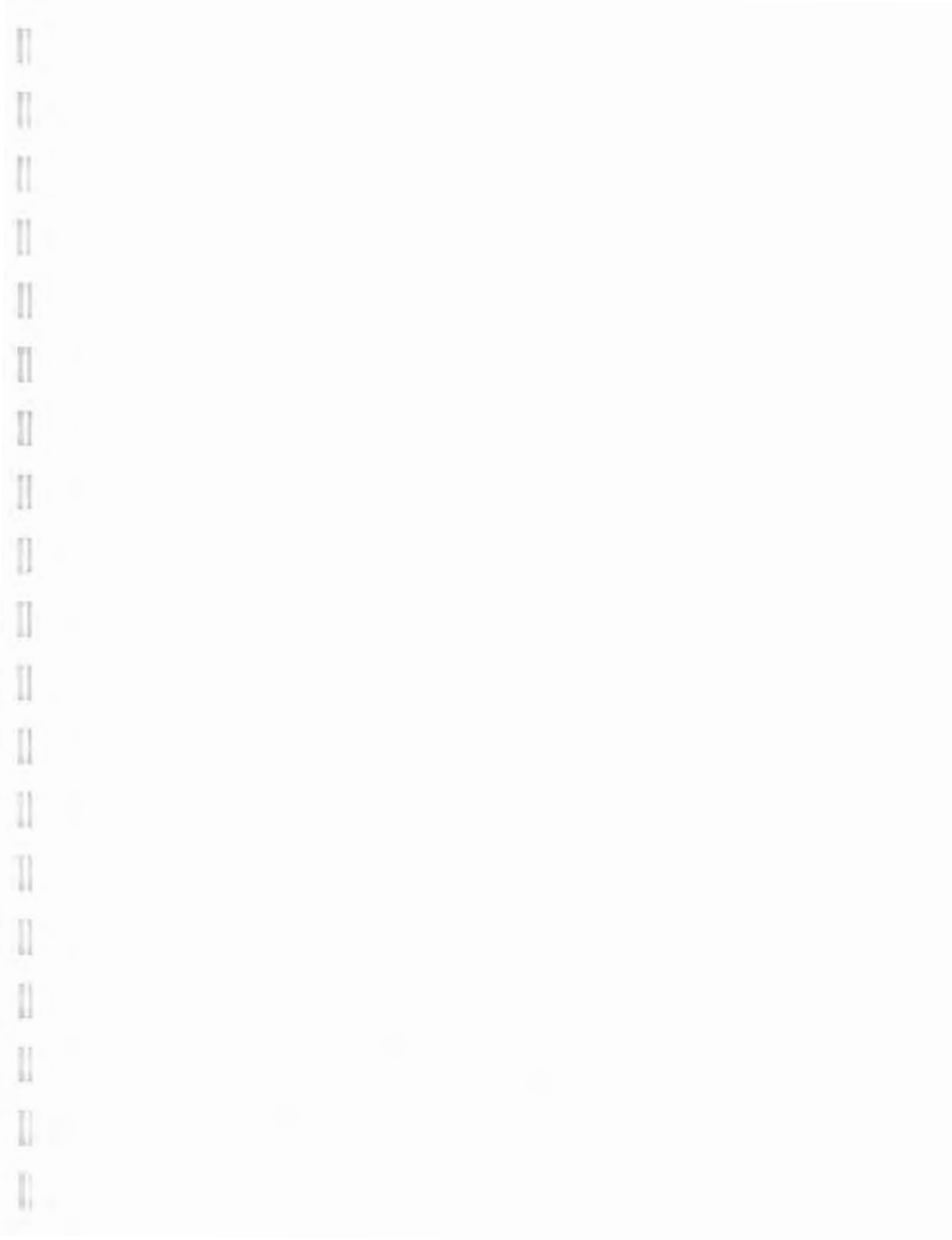
2Q 2002 sampling and monitoring activities at the Ash Landfill consisted of measurements of groundwater elevations at 60 locations, field measurements of groundwater physical and chemical properties at 12 locations, and sample collection and laboratory analysis at 15 locations. A description of these activities is provided below.

### **2.1 GROUNDWATER ELEVATION MEASUREMENTS**

From April 8 through April 10, 2002, Parsons measured the depth to groundwater at 60 monitoring wells in the overburden aquifer at the Ash Landfill. The depth to groundwater was measured from the top of the well casing using an electronic water level indicator. Groundwater elevations were then calculated by subtracting the depth to groundwater from the surveyed elevation of the top of each well casing.

### **2.2 GROUNDWATER SAMPLING**

From April 8 through April 10, 2002, Parsons collected groundwater samples from twelve monitoring wells and three farmhouse wells. Groundwater samples were collected following EPA Region II low-flow groundwater sampling procedures. The selected monitoring wells were purged and sampled using bladder pumps and dedicated Teflon<sup>®</sup> tubing. The farmhouse wells were sampled from taps inside the house. The shallow aquifer well located outside the house was sampled using a new certified clean Teflon bailer.



## 2.3 GROUNDWATER ANALYSES

**Table 2-1** contains the groundwater quality-sampling matrix for the 2Q 2002 sampling event. As shown in **Table 2-1**, groundwater quality measurements were performed on samples from the same 15 locations that were described in Section 2.2. **Table 2-1** also lists the laboratory analyses performed on the eight quality assurance/quality control (QA/QC) samples that were part of this sampling event. Field parameters (groundwater temperature, pH, specific conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity, sulfide and ferrous iron) were measured during well purging and recorded when a particular field parameter was observed to stabilize. Field parameter stabilization marked the completion of the well purging procedure, and groundwater samples for laboratory analysis were therefore collected immediately following stabilization and recording of the field parameters. A Model U-22 Water Quality Monitoring System with flow cell (Horiba, Ltd., Kyoto, Japan) was used to measure groundwater temperature, pH, specific conductivity, DO, ORP, and turbidity. A Model DR/700 colorimeter (Hach Company, Loveland, CO) was used to measure sulfide and ferrous iron.

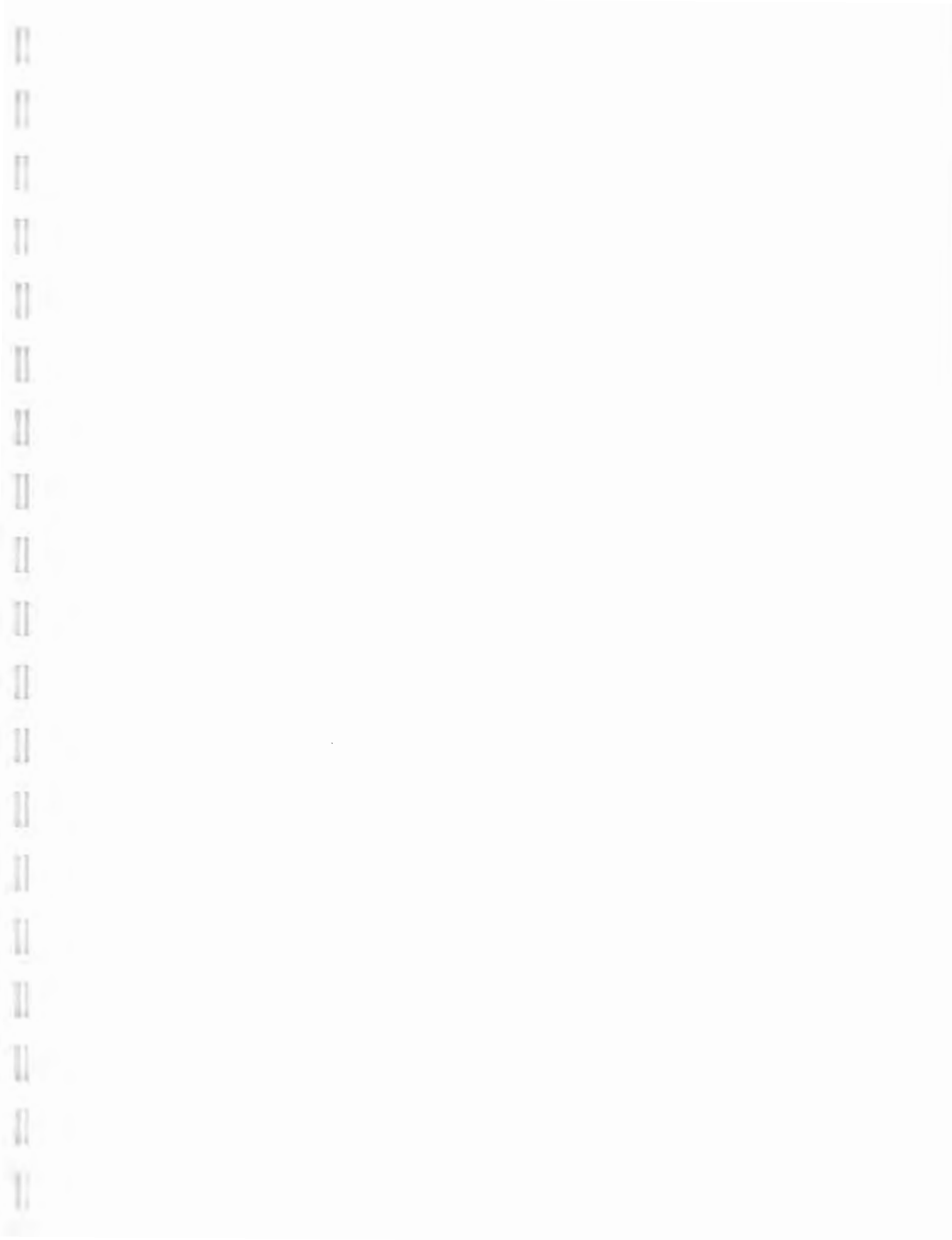
Groundwater samples were collected and sent to Severn Trent Laboratories (STL; Colchester, VT) for analysis of volatile organic compounds (VOCs). VOC concentrations were measured using USEPA Methods 524.2 and 8260B. The Missouri River Division (MRD) of the US Army Corps of Engineers (USACOE) analyzed one QA sample (MWT-6) for VOCs (Method 524.2 only).

## 3 QUARTERLY MONITORING RESULTS

### 3.1 GROUNDWATER ELEVATION CONDITIONS

**Table 3-1** contains historical groundwater table elevation information on 60 monitoring wells at the Ash Landfill. **Table 3-1** also contains the calculated Mean Sea Level (MSL) groundwater elevations for the 60 monitoring wells sampled during the 2Q 2002 sampling event. Of the 60 overburden monitoring wells that were sampled, two were found to be dry. The saturated thickness at monitoring wells in and around the permeable reactive barrier ranged between 4.63 ft (MWT-2) and 8.50 ft (MWT-10). The saturated thicknesses are significantly higher than those recorded during the August 2001 sampling round. Based on a review of the historical data of the 60 monitoring wells listed in **Table 3-1**, the average seasonal variation in groundwater elevation is 6 ft and the maximum-recorded seasonal variation in groundwater elevation is 13.52 ft (MW-50D). Appendix A contains a summary of all groundwater elevation data collected at the Ash Landfill between the 1995 and 2Q 2002.

**Figure 3-1** depicts a groundwater elevation contour map for the Ash Landfill Operable Unit that was drawn using 2Q 2002 groundwater elevation data. The groundwater flow direction is generally to the west with an average horizontal hydraulic gradient of approximately 0.02 ft/ft.



The 2Q 2002 groundwater elevation data are consistent with recorded groundwater elevations at the Ash Landfill site at this time of the year in previous years. The elevations near the well show that the highest gradients through the well are observed at the southern end of the well with an actual slight flow back into the well in the center near MWT-4, 5 and 6.

### 3.2 GROUNDWATER FIELD PARAMETER RESULTS

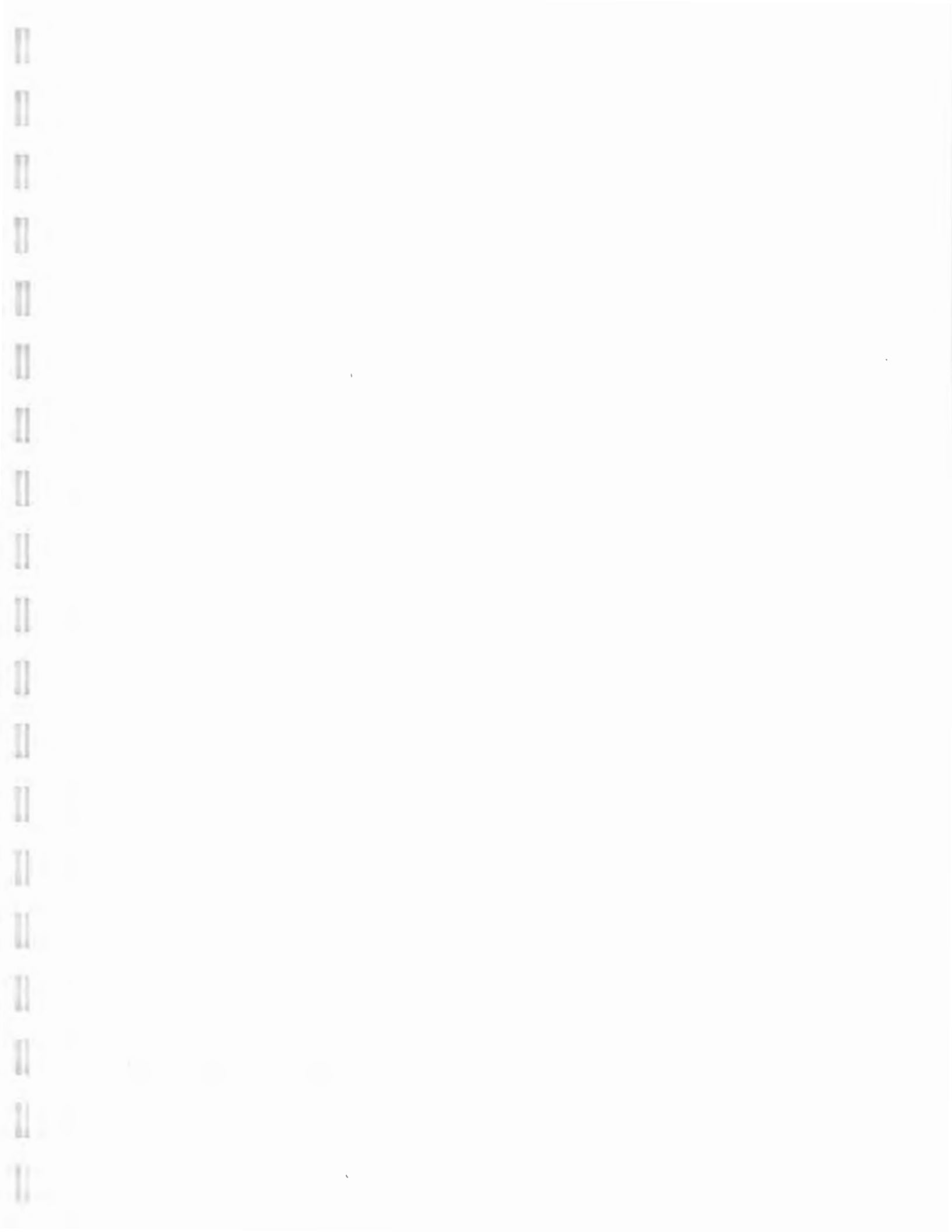
**Table 3-2** provides a summary of all field measurements (groundwater temperature, pH, specific conductivity, DO, ORP, turbidity, sulfide, and ferrous iron) for the 12 monitoring wells that were sampled during 2Q 2002. Field parameter measurements were not obtained during the groundwater sampling of the three farmhouse wells. The values presented were recorded after parameter stabilization and immediately prior to groundwater collection for laboratory sampling.

In general, field measurements of DO, ORP and pH during 2Q 2002 sampling were consistent with previous sampling events. Dissolved oxygen concentrations for the 2Q 2002 sampling event ranged from 0.00 mg/L (several wells) to 6.90 mg/L (MWT-4), with an average concentration of 1.81 mg/L. Groundwater ORP values for 13 of the wells monitored during this sampling event range between -278 mV (MWT-10) and +228 mV (MWT-28). The average ORP for this round of sampling was +98.3 mV. The average ORP for 2Q 2002 is higher than the averages calculated for 3Q 2001 (+69.5 mV), 4Q 1999 (+50.78 mV) and 1Q 2000 (+64.6 mV). Groundwater pH measurements ranged from 6.6 to 8.9, with an average of 7.4. The pH averages is consistent with previous sampling rounds.

### 3.3 GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical results are presented in **Tables 3-3, 3-4 and 3-5**. VOC results from eleven samples analyzed using Method 524.2 are reported in **Table 3-3**. The VOC results from two samples analyzed using Method 8260B are reported in **Table 3-4**. **Table 3-5** provides a summary of only those VOCs that were detected. Results of 2Q 2002 monitoring for trichloroethene (TCE) and cis-1,2 dichloroethene (DCE) concentrations are shown by location in **Figure 3-2**. The maximum measured concentration of TCE in groundwater was 540 µg/L at MWT-7. The maximum measured concentration of DCE in groundwater was 82 µg/L at MWT-9.

In the eight monitoring wells sampled around the permeable reactive barrier, the maximum measured TCE concentration was 540 µg/L TCE at monitoring well MWT-7. Monitoring well MWT-7 is located on the upgradient side of the barrier, as shown on **Figure 3-2**. The maximum measured DCE concentration in wells near the permeable reactive barrier was 82 DCE µg/ L at MWT-9. Monitoring well MWT-9 is located approximately 6 feet downgradient of both MWT-7 and the permeable reactive barrier, as shown on **Figure 3-2**. Detectable levels of DCE were found at all four monitoring wells that are immediately downgradient of the permeable reactive barrier (MWT-3, MWT-6, MWT-9, and PT-24). TCE was found in all wells except MWT-6. The maximum and minimum TCE concentrations in these four wells were 100 µg/ L at MWT-9 and non-detect at MWT-6, respectively. The maximum



and minimum DCE concentrations in these four wells were 82 µg/ L at MWT-9 and 8.2 µg/ L at MWT-6, respectively. No detectable levels of chlorinated ethenes were found in groundwater samples from the three farmhouse wells (FH-S, BN-S and FH-D). DCE was detected below the applicable standard at a concentration of 1.1 ug/L in MW-28.

Historical groundwater monitoring data from wells PT-12A, PT-18, MW-44A, MW-28, MW-30, and PT-24 are presented in **Figures 3-3, 3-4, 3-5, 3-6, 3-7, and 3-8**, respectively. The graphs for PT-12A, PT-18 and MW-44A were not updated since these wells were not sampled during 2Q 2002. These figures illustrate the seasonal and historical trends for TCE and DCE concentrations in monitoring wells that were sampled during the 3Q 2001 and/or 2Q 2002 monitoring event. As shown in **Figure 3-3**, TCE and DCE concentrations at PT-12A have been observed to vary seasonally, with the maximum concentrations observed in the third quarter, and minimum concentrations observed in the first quarter of each year. As shown in **Figure 3-4**, TCE and DCE concentrations at PT-18 were observed to decrease significantly following an Interim Removal Measure (IRM) that was initiated at the Ash Landfill in August 1994 and completed in June 1995. As with PT-12A, recent TCE and DCE concentrations have also been observed to vary seasonally, with the maximum concentrations observed in the third quarter. **Figure 3-5A** depicts historic concentrations of TCE, DCE, and vinyl chloride for all monitoring events at MW-44A since July 1993. **Figure 3-5B** depicts historic concentrations of TCE, DCE, and vinyl chloride for all monitoring events since December 1994 on a smaller scale so that variation in chlorinated ethane concentrations can be more readily observed. The reason for the marked decrease in chlorinated VOC concentrations at MW-44A between the November 1993 and December 1994 sampling events is a result of the IRM. As shown in **Figure 3-6**, TCE and DCE concentrations at MW-28 appear to be trending down. The TCE and DCE concentrations were the lowest measured at this well. As shown in **Figure 3-7**, TCE and DCE have not been detected at MW-30 since October 1999. As shown in **Figure 3-8**, the 2Q 2002 DCE concentration was the lowest measured at this well (54 ug/L). The TCE concentrations have generally been consistent over the last three years. Appendix C of this report contains a summary of groundwater monitoring data collected in recent sampling events.

### 3.4 RESULTS INTERPRETATION AT THE PERMEABLE REACTIVE BARRIER

During the 2Q 2002 sampling event, samples were collected from three well pairs at the existing permeable reactive barrier (PRB). The three well pairs are MW-1 and MW-3, MW-4 and MW-6, and MW-7 and MW-9. As shown on **Figure 3-9**, wells MW-1, MW-4, and MW-7 are located immediately upgradient of the PRB and wells MW-3, MW-6, and MW-9 are located immediately downgradient of the PRB. **Table 3-6** presents TCE and DCE concentrations for the three sampling events at the downgradient wells. The purpose of sample collection at these points was to evaluate whether the PRB was continuing to chemically remove chlorinated ethenes from groundwater at the Ash Landfill. Measurements of chlorinated ethenes at the PRB showed mixed results. The measured TCE and DCE concentrations at downgradient MW-3 (TCE = 5.2 µg/L; DCE = 28 µg/L) were lower than the





concentrations at upgradient MW-1 (TCE = 17 µg/L; DCE = 64 µg/L). This suggests that some chemical destruction of chlorinated ethenes is occurring in this portion of the wall. Residual concentrations downgradient of the wall suggest that existing TCE and DCE concentrations in the groundwater are present downgradient of the wall. In the next well cluster (MW-4/MW-6), TCE and DCE concentrations measured at downgradient MW-6 (TCE = ND; DCE = 8.0µg/L) were significantly lower than the concentrations measured at upgradient MW-4 (TCE = 1.7µg/L; DCE = 56µg/L), indicating that the PRB has continued to remove chlorinated ethenes from groundwater in this portion of the wall. In the final well cluster (MW-7/MW-9), the concentration of TCE was observed to decrease from 540µg/L at MW-7 to 100 µg/L at MW-9, but the DCE concentration was observed to increase from 28µg/L at MW-7 to 82µg/L at MW-9. This data from MW-7 and MW-9 demonstrates that the PRB has continued to chemically reduce TCE concentrations, but that there is inadequate retention time or that the PRB does not contain an adequate iron content to remove the intermediate product (DCE) that is produced during TCE reduction to ethane or ethene. Subsurface anomalies in this area may lead to higher permeable zones that reduce retention times.

Performance of the PRB can also be evaluated by examining other geochemical parameters that were measured at the PRB. In general, the physical and chemical parameter trends observed at the existing PRB are consistent with observations at other sites where PRBs have been installed for treatment of chlorinated ethenes in groundwater. That is, the PRB is producing an environment downgradient of the PRB that is more reduced than conditions on the upgradient side. For example, the decreased Oxidation-Reduction Potential (ORP) is an indicator of a reduction in the redox condition downgradient of the wall. The observed decreases in specific conductivity are also consistent with observations the PRB is continuing to react with groundwater. It should be noted that these observations should be confirmed with subsequent quarterly groundwater sampling.

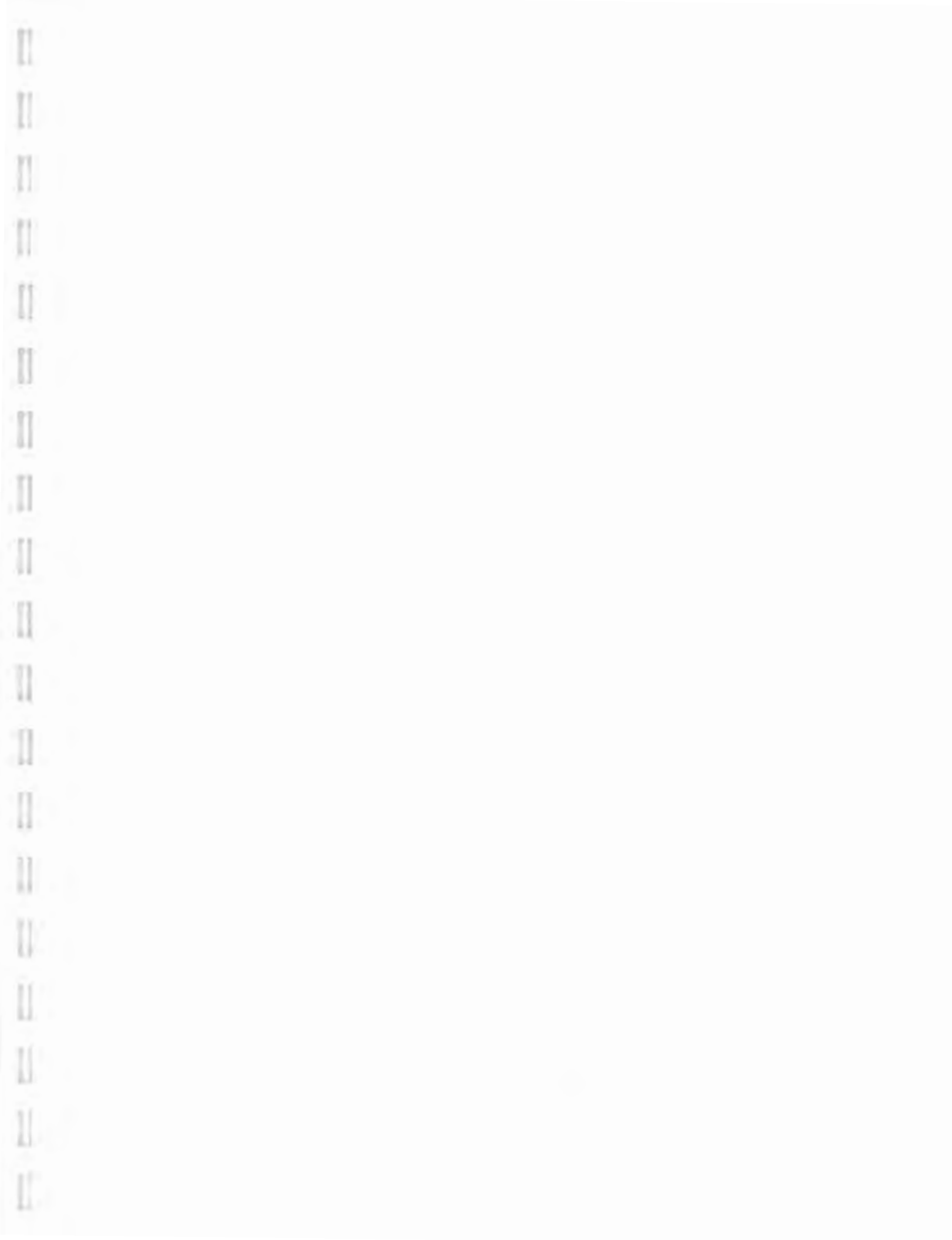
#### 4 SUMMARY AND CONCLUSIONS

In summary, the 2Q 2002 groundwater monitoring and sampling event found:

1. Groundwater flow direction, and horizontal gradients are consistent with previous data collected in the area.
2. Groundwater elevations have recovered since the minimum elevations since 1995 were recorded.
3. Groundwater analytical results are generally consistent with seasonal trends in the October 1999, January 2000 and September 2001 sampling events.
4. There does appear to be a slight downward trend in TCE and DCE concentrations in MW-28, MW-30 and PT-24. MW-28 and MW-30 are located upgradient of the wall and PT-24 is located downgradient of the wall.
5. TCE and DCE concentrations from monitoring wells along the permeable reactive barrier have shown little variation between the April 1999, Sept 2001 and April 2002 sampling events.



6. The combined observed changes in TCE concentrations, DCE concentrations, reaction endproduct concentrations, redox indicator concentrations, and other chemical and physical parameters between wells upgradient and downgradient of the existing PRB generally indicate that the iron in the PRB is continuing to react with site groundwater and reductively dechlorinate chlorinated ethenes at the Ash Landfill.



**TABLE 2-1  
DRAFT GROUNDWATER SAMPLING MATRIX - SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY**

Location	Sample ID	QC Code	Well Depth (ft)	Pump Intake	Field Parameters							Lab Parameters					
					pH	Spec Cond	ORP	DO	Turbidity	Sulfide	Fe <sup>2+</sup>	VOC 524.2	VOC CLP (8260B)	Nitrate/Nitrite	Alkalinity / Sulfate/ Chlorides	Hydrogen	Methane/ Ethane/ Ethene
<b>Farmhouse Wells</b>																	
BN-S <sup>1,2</sup>	ARD2168	SA	na	na									X				
FH-D <sup>2</sup>	ARD2169	SA	na	na									X				
FH-S <sup>2</sup>	ARD2160	SA	na	na									X				
<b>Site Monitoring Wells</b>																	
MW-28 <sup>3</sup>	ARD2171	SA	10.39	9.4	X	X	X	X	X	X	X		X				
MW-30 <sup>3</sup>	ARD2172	SA	10.52	8.5	X	X	X	X	X	X	X	X					
MW-56 <sup>3</sup>	ARD2173	SA	6.88	5.8	X	X	X	X	X	X	X	X					
PT-24 <sup>3</sup>	ARD2174	SA	11.88	10.5	X	X	X	X	X	X	X		X				
<b>Permeable Reactive Barrier Monitoring Wells</b>																	
MWT-1 <sup>3</sup>	TR2081	SA	9.75	8.0	X	X	X	X	X	X	X	X					
MWT-3 <sup>3</sup>	TR2082	SA	10	8.8	X	X	X	X	X	X	X	X					
MWT-4 <sup>3</sup>	TR2083	SA	12.42	10.4	X	X	X	X	X	X	X	X					
MWT-6 <sup>3</sup>	TR2084	SA	12.42	10.4	X	X	X	X	X	X	X	X					
MWT-7 <sup>3</sup>	TR2085	SA	13.97	11.0	X	X	X	X	X	X	X	X					
MWT-9 <sup>3</sup>	TR2086	SA	14.08	13.1	X	X	X	X	X	X	X	X					
MWT-10 <sup>3</sup>	TR2087	SA	8.95	8.0	X	X	X	X	X	X	X	X					
MWT-11 <sup>3</sup>	TR2088	SA	9.95	7.5	X	X	X	X	X	X	X	X					
<b>QA/QC Samples</b>																	
Duplicate (MWT-6)	TR2089	DU	12.42	10.4	X	X	X	X	X	X	X	X					
Duplicate (PT-24)	ARD2175	DU	11.88	10.5	X	X	X	X	X	X	X		X				
MS (MWT-T7)	TR2085MS	MS	13.97	11.0	X	X	X	X	X	X	X	X					
MSD (MW-T7)	TR2085MSD	MSD	13.97	11.0	X	X	X	X	X	X	X	X					
Rinse Blank	TR0035	RB	na	na								X					
Trip/ Blank	TR0036	TB	na	na								X					
Trip/ Blank	ARDxxxx	TB	na	na								X					
MRD (MWT-6) (QA-LIMS# 6463)	TR2084MRD	SA	12.42	10.4	X	X	X	X	X	X	X	X					

1 - Shaded areas indicate sample or parameter not collected due to low water conditions or low recovery rates

2 - Sampled at tap

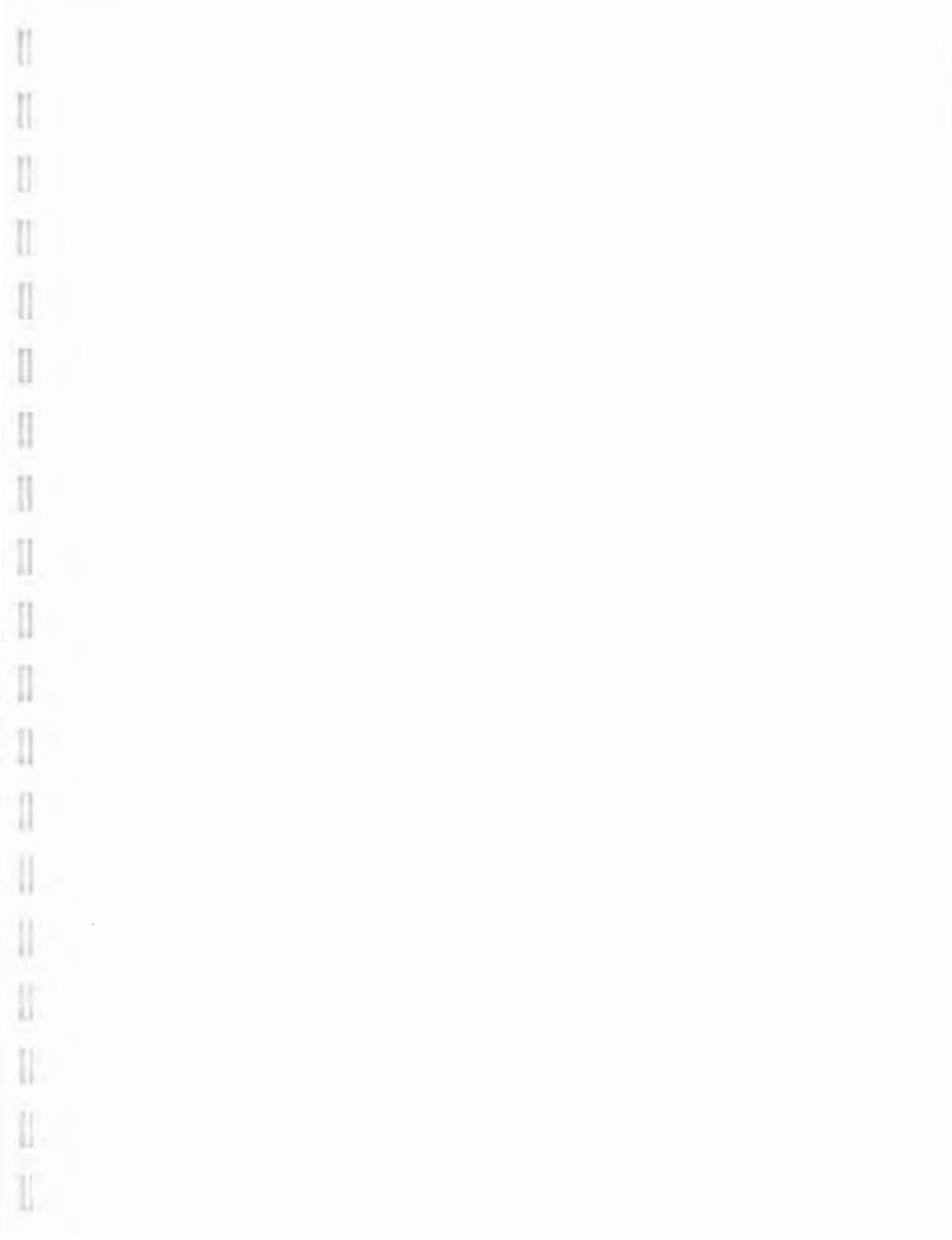
3 - Sampled according to EPA Reion II low-flow sampling procedures

DU - Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

MRD - Missouri River Division ACOE



**TABLE 3-1  
GROUNDWATER ELEVATION DATA - SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY**

Monitoring Well	Top of Riser Elevation (ft)	2Q 2002 Data				Historical Data			
		Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Groundwater Elevation (ft)			Well Depth (ft)
						Maximum	Minimum	Range	
PT-10	681.52	04/08/2002	41.09	5.27	676.25	676.90	671.02	5.88	46.36
PT-11	658.22	04/08/2002	14.77	4.78	653.44	654.03	647.79	6.24	19.55
PT-12A	652.15	04/08/2002	9.22	4.16	647.99	649.01	642.26	6.75	13.38
PT-15	637.76	04/08/2002	13.35	4.15	633.61	633.74	627.38	6.36	19.50
PT-16	637.51	04/08/2002	7.12	3.92	633.59	634.85	629.83	5.02	11.04
PT-17	640.14	04/08/2002	7.12	4.53	635.61	635.85	629.05	6.80	11.65
PT-18	656.68	04/08/2002	6.84	4.86	651.82	652.28	646.30	5.98	11.70
PT-19	645.26	04/08/2002	8.71	2.99	642.27	643.09	636.57	6.52	11.70
MW-20	647.28	04/08/2002	5.81	5.99	641.29	642.34	637.41	4.93	11.80
MW-21A	647.73	04/08/2002	14.02	5.44	642.29	643.84	637.22	6.62	19.46
MW-22	648.61	04/08/2002	5.88	5.93	642.68	644.30	637.51	6.79	11.81
PT-23	641.58	04/08/2002	8.20	3.88	637.7	638.14	632.35	5.79	12.08
PT-24	636.40	04/08/2002	7.39	4.49	631.91	632.76	627.99	4.77	11.88
PT-25	637.09	04/08/2002	8.13	3.90	633.19	633.51	625.74	7.77	12.03
PT-26	614.64	NA	NA	Not Measured		611.60	601.53	10.07	14.00
MW-27	639.32	04/08/2002	5.66	4.88	634.44	634.88	630.09	4.79	10.54
MW-28	637.21	04/09/2002	5.61	4.78	632.43	632.57	628.71	3.86	10.39
MW-29	637.31	04/08/2002	5.33	5.21	632.1	632.10	627.30	4.80	10.54
MW-30	640.32	04/10/2002	5.74	4.78	635.54	636.38	629.88	6.50	10.52
MW-31	636.70	04/08/2002	7.41	2.94	633.76	634.22	627.02	7.20	10.35
MW-32	641.68	04/08/2002	6.13	4.24	637.44	637.84	632.70	5.14	10.37
MW-33	639.56	04/08/2002	6.13	4.26	635.3	635.65	629.72	5.93	10.39
MW-34	632.89	04/08/2002	14.30	3.85	629.04	630.15	622.36	7.79	18.15
MW-35D	631.82	04/08/2002	53.72	2.92	628.9	629.44	624.62	4.82	56.64
MW-36	631.79	04/08/2002	12.97	3.61	628.18	629.47	622.26	7.21	16.58
MW-37	632.89	04/08/2002	10.57	3.05	629.84	630.65	625.77	4.88	13.62
MW-38D	637.90	04/08/2002	28.63	3.61	634.29	635.39	628.99	6.40	32.24
MW-39	659.54	04/08/2002	10.02	1.87	657.67	657.84	650.47	7.37	11.89
MW-40	659.30	04/08/2002	10.95	3.76	655.54	655.85	3.76	652.09	14.71
MW-41D	694.02	NA	NA	Not Measured		687.92	685.21	2.71	47.02
MW-42D	683.04	04/08/2002	44.85	2.53	680.51	680.67	671.39	9.28	47.38
MW-43	657.73	04/08/2002	2.88	2.92	654.81	655.13	650.73	4.40	5.80
MW-44A	653.85	04/08/2002	8.46	4.02	649.83	650.37	642.42	7.95	12.48
MW-45	650.90	04/08/2002	5.50	2.74	648.16	648.16	643.12	5.04	8.34
MW-46	650.41	04/08/2002	8.11	3.34	647.07	647.53	641.12	6.41	11.45
MW-47	628.06	04/08/2002	5.65	2.91	625.15	625.76	619.88	5.88	8.56
MW-48	648.32	04/08/2002	8.60	2.90	645.42	645.46	639.94	5.52	11.50
MW-49D	650.50	04/08/2002	34.24	3.30	647.2	647.62	641.76	5.86	37.54
MW-50D	649.88	04/08/2002	56.36	3.30	646.58	647.40	633.88	13.52	59.66
MW-51D	628.24	04/08/2002	33.07	3.80	624.44	628.24	620.49	7.75	36.87
MW-52D	626.35	04/08/2002	56.79	2.57	623.78	624.17	618.67	5.50	59.36





**TABLE 3-1  
GROUNDWATER ELEVATION DATA - SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY**

Monitoring Well	Top of Riser Elevation (ft)	2Q 2002 Data				Historical Data			
		Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Groundwater Elevation (ft)			Well Depth (ft)
						Maximum	Minimum	Range	
MW-53	639.41	04/08/2002	4.75	5.57	633.84	633.84	629.46	4.38	10.35
MW-54D	639.11	04/08/2002	29.31	5.68	633.43	633.43	628.71	4.72	34.99
MW-55D	639.16	04/08/2002	52.43	5.75	633.41	633.41	627.96	5.45	58.18
MW-56	630.51	04/10/2002	3.13	3.75	626.76	627.56	621.66	5.90	6.88
MW-57D	629.82	04/08/2002	33.13	1.96	627.86	628.13	621.76	6.37	35.09
MW-58D	629.69	04/08/2002	55.67	1.62	628.07	628.37	624.79	3.58	57.29
MW-59	656.83	04/08/2002	6.89	2.21	654.62	654.93	649.85	5.08	9.10
MW-60	660.15	04/08/2002	7.40	2.10	658.05	658.20	652.23	5.97	9.50
MWT-1	637.24	04/09/2002	4.98	4.77	632.47	632.47	629.06	3.41	9.75
MWT-2	637.19	04/08/2002	4.63	4.92	632.27				9.55
MWT-3	637.31	04/09/2002	4.89	5.11	632.2	632.20	628.99	3.21	10.00
MWT-4	637.68	04/09/2002	7.22	5.21	632.47	632.47	627.28	5.19	12.43
MWT-5	637.72	04/08/2002	6.68	5.27	632.45				11.95
MWT-6	637.59	04/09/2002	7.07	5.21	632.38	632.38	627.24	5.14	12.28
MWT-7	638.34	04/09/2002	8.50	5.47	632.87	632.87	626.58	6.29	13.97
MWT-8	638.40	04/08/2002	6.73	5.82	632.58				12.55
MWT-9	638.08	04/09/2002	8.48	5.66	632.42	632.42	626.04	6.38	14.14
MWT-10	636.07	04/09/2002	5.11	3.84	632.23	632.23	629.55	2.68	8.95
MWT-11	635.90	04/10/2002	7.00	2.95	632.95	632.95	626.92	6.03	9.95



**TABLE 3-2**  
**FIELD MONITORING RESULTS - SECOND QUARTER 2002**  
**GROUNDWATER MONITORING - ASH LANDFILL**  
**SENECA ARMY DEPOT ACTIVITY**

Well ID	Sample Number	DO (mg/l)	Temp (deg.C)	Spec. Cond. (S/m)	pH (units)	ORP (mV)	Turbidity (ntu)	Fe+2 (mg/l)	Sulfide (mg/l)
PT-24	ARD2174	0.00	6.8	0.641	7.20	129	1.05	0.13	0.300
MW-28	ARD2171	4.05	7.0	0.699	7.16	228	2.20	0.20	0.076
MW-30	ARD2172	5.88	6.8	0.71	7.42	167	3.01	0.00	0.00
MW-56	ARD2173	0.36	6.1	NA	7.34	173	2.10	0.00	0.00
FH-D	ARD2169	NA	NA	NA	NA	NA	NA	NA	NA
FH-S	ARD2170	NA	NA	NA	NA	NA	NA	NA	NA
BN-S	ARD2168	NA	NA	NA	NA	NA	NA	NA	NA
MWT-1	TR2081	3.86	7.4	0.831	7.29	188	NA	0.00	0.000
MWT-3	TR2082	0.00	7.2	0.743	6.58	152	1.46	0.27	0.021
MWT-4	TR2083	6.90	8.4	0.974	7.22	196	1.55	0.00	NA
MWT-6	TR2084	0.00	8.4	0.483	8.03	-62	2.78	0.03	0.000
MWT-7	TR2085	3.11	8.0	0.820	7.14	197	2.13	0.03	0.011
MWT-9	TR2086	0.00	8.1	0.469	7.50	1	6.46	0.08	0.026
MWT-10	TR2087	0.00	7.2	0.405	8.86	-278	4.21	0.51	0.028
MWT-11	TR2088	0.58	7.1	0.814	7.18	89	4.62	0.00	0.026

ND = Not Detected

NA = Not Analyzed



**TABLE 3-3  
RESULTS OF VOC (METHOD 524.2) ANALYSIS - SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY**

STUDY LOCATION: ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL	
LOC ID: BN-S		FH-D		FH-S		MW-30	
MATRIX: GROUNDWATER		GROUNDWATER		GROUNDWATER		GROUNDWATER	
SAMP_ID: ARD2168		ARD2169		ARD2170		ARD2172	
SAMP. DEPTH TOP:	0	0	0	0	0	10.52	
SAMP. DEPTH BOT:	0	0	0	0	0	10.52	
SAMP. DATE	4/10/02	4/10/02	4/10/02	4/10/02	4/10/02	4/10/02	
FIELD QC CODE: SA		SA		SA		SA	
Parameter	Action Level	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,1,1,2-Tetrachloroethane	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane		UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethan	5	UG/L					
1,1,2-Trichloroethane	1	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	0.04	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane	0.04	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	0.0006	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	3	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.6	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	70	UG/L					
1,2-Dichloropropane	1	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichloropropane	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	3	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane		UG/L					
2,2-Dichloropropane		UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Chloroethylvinylether		UG/L					
2-Chlorotoluene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Nitropropane		UG/L	420 U	25 U	25 U	25 U	25 U
Acetone		UG/L	84 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Acrolein	5	UG/L					
Acrylonitrile	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
Allyl chloride	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	1	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	80	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	80	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
Butyl chloride	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide		UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U

Dark Shade: Indicates concentration above detection limit  
Light Shade: Indicates concentration above action level.



TABLE 3-3  
 RESULTS OF VOC (METHOD 524.2) ANALYSIS - SECOND QUARTER 2002  
 GROUNDWATER MONITORING - ASH LANDFILL  
 SENECA ARMY DEPOT ACTIVITY

		STUDY LOCATION: ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	
		LOC ID: BN-S	FH-D	FH-S	MW-30	
		MATRIX: GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	
		SAMP_ID: ARD2168	ARD2169	ARD2170	ARD2172	
SAMP. DEPTH TOP:		0	0	0	10.52	
SAMP. DEPTH BOT:		0	0	0	10.52	
SAMP. DATE		4/10/02	4/10/02	4/10/02	4/10/02	
FIELD QC CODE: SA		SA	SA	SA	SA	
Parameter	Action Level	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Carbon tetrachloride	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Chloroacetonitrile		UG/L	420 R	25 R	25 R	25 R
Chlorobenzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Chlorodibromomethane	80	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Chloroform	7	UG/L	8.4 U	0.46 J	0.48 J	0.5 U
Chloroprene	5	UG/L				
Cis-1,2-Dichloroethene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	0.4	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Dichloromethyl methyl ketone		UG/L	420 R	25 R	25 R	25 R
Ethyl benzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Ethyl ether		UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Ethyl methacrylate		UG/L	8.4 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Hexachlorobutadiene	0.5	UG/L	8.4 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Hexachloroethane	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Isobutyl alcohol		UG/L				
Isopropylbenzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Meta/Para Xylene		UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Methacrylonitrile	5	UG/L	8.4 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Methyl 2-propenoate		UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Methyl Tertbutyl Ether		UG/L	370	0.5 U	0.5 U	0.5 U
Methyl bromide	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Methyl butyl ketone		UG/L	42 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Methyl chloride	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Methyl ethyl ketone		UG/L	84 R	5 R	5 R	5 R
Methyl iodide	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Methyl isobutyl ketone		UG/L	42 U	2.5 U	2.5 U	2.5 U
Methyl methacrylate	50	UG/L	8.4 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Methylene bromide	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Methylene chloride	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Naphthalene		UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	0.4	UG/L	420 R	25 R	25 R	25 R
Ortho Xylene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Pentachloroethane	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Propionitrile		UG/L	420 R	25 R	25 R	25 R
Propylbenzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Styrene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Tetrahydrofuran		UG/L	42 U	2.5 U	2.5 U	2.5 U

Dark Shade: Indicates concentration above detection limit  
 Light Shade: Indicates concentration above action level.





TABLE 3-3  
 RESULTS OF VOC (METHOD 524.2) ANALYSIS - SECOND QUARTER 2002  
 GROUNDWATER MONITORING - ASH LANDFILL  
 SENECA ARMY DEPOT ACTIVITY

Parameter	Action Level	Units	STUDY LOCATION: ASH LANDFILL			
			Value (Q)	Value (Q)	Value (Q)	Value (Q)
Toluene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Total Xylenes	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Total Xylenes-A		UG/L				
Total Xylenes-B		UG/L				
Trans-1,2-Dichloroethene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Trans-1,3-Dichloropropene	0.4	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-butene		UG/L	8.4 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Trichloroethene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
Vinyl acetate		UG/L				
Vinyl chloride	2	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
cis-1,4-Dichloro-2-butene		UG/L				
n-Butylbenzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
p-Chlorotoluene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	5	UG/L	8.4 U	0.5 U	0.5 U	0.5 U

STUDY LOCATION: ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
LOC ID: BN-S	FH-D	FH-S	MW-30
MATRIX: GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
SAMP_ID: ARD2168	ARD2169	ARD2170	ARD2172
SAMP. DEPTH TOP: 0	0	0	10.52
SAMP. DEPTH BOT: 0	0	0	10.52
SAMP. DATE 4/10/02	4/10/02	4/10/02	4/10/02
FIELD QC CODE: SA	SA	SA	SA

Dark Shade: Indicates concentration above detection limit  
 Light Shade: Indicates concentration above action level.

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**TABLE 3-3  
RESULTS OF VOC (METHOD 524.2) ANALYSIS - SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY**

STUDY LOCATION: ASH LANDFILL		ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL		
LOC ID: MW-56		MWT-1	MWT-10	MWT-11	MWT-3		
MATRIX: GROUNDWATER		GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER		
SAMP_ID: ARD2173		TR2081	TR2087	TR2088	TR2082		
SAMP DEPTH TOP:	6.88	9.75	8.95	9.95	10		
SAMP DEPTH BOT:	6.88	9.75	8.95	9.95	10		
SAMP. DATE	4/10/02	4/9/02	4/9/02	4/10/02	4/9/02		
FIELD QC CODE: SA	SA	SA	SA	SA	SA		
Parameter	Action Level	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
1,1,1,2-Tetrachloroethane	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane		UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	UG/L					
1,1,2-Trichloroethane	1	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	0.04	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-chloropropane	0.04	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	0.0006	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	3	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.6	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	70	UG/L					
1,2-Dichloropropane	1	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	3	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,3-Dichloropropane	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	3	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
1,4-Dioxane		UG/L					
2,2-Dichloropropane		UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
2-Chloroethylvinylether		UG/L					
2-Chlorotoluene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
2-Nitropropane		UG/L	25 U	90 U	25 U	25 U	25 U
Acetone		UG/L	5 UJ	25 J	5 UJ	5 UJ	5 UJ
Acrolein	5	UG/L					
Acrylonitrile	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Allyl chloride	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Benzene	1	UG/L	0.5 U	1.8 U	0.46 J	0.5 U	0.28 J
Bromobenzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Bromochloromethane	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	80	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Bromoform	80	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Butyl chloride	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Carbon disulfide		UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U

Dark Shade: Indicates concentration above detection limit  
Light Shade: Indicates concentration above action level.



TABLE 3-3  
 RESULTS OF VOC (METHOD 524.2) ANALYSIS - SECOND QUARTER 2002  
 GROUNDWATER MONITORING - ASH LANDFILL,  
 SENECA ARMY DEPOT ACTIVITY

Parameter	Action Level	Units	STUDY LOCATION: ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
			LOC ID: MW-56	MWT-1	MWT-10	MWT-11	MWT-3
			MATRIX: GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
			SAMP_ID: ARD2173	TR2081	TR2087	TR2088	TR2082
			SAMP. DEPTH TOP: 6.88	9.75	8.95	9.95	10
			SAMP. DEPTH BOT: 6.88	9.75	8.95	9.95	10
			SAMP. DATE 4/10/02	4/9/02	4/9/02	4/10/02	4/9/02
			FIELD QC CODE: SA	SA	SA	SA	SA
			Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Carbon tetrachloride	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Chloroacetonitrile		UG/L	25 R	90 R	25 R	25 R	25 R
Chlorobenzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Chlorodibromomethane	80	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Chloroethane	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Chloroform	7	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Chloroprene	5	UG/L					
Cis-1,2-Dichloroethene	5	UG/L	1.1	64	2.9	0.5 U	28
Cis-1,3-Dichloropropene	0.4	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Dichloromethyl methyl ketone		UG/L	25 R	90 R	25 R	25 R	25 R
Ethyl benzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Ethyl ether		UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Ethyl methacrylate		UG/L	0.5 UJ	1.8 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Hexachlorobutadiene	0.5	UG/L	0.5 UJ	1.8 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Hexachloroethane	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Isobutyl alcohol		UG/L					
Isopropylbenzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Meta/Para Xylene		UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Methacrylonitrile	5	UG/L	0.5 UJ	1.8 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Methyl 2-propenoate		UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Methyl Tertbutyl Ether		UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Methyl bromide	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Methyl butyl ketone		UG/L	2.5 UJ	9 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Methyl chloride	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Methyl ethyl ketone		UG/L	5 R	18 R	5 R	5 R	5 R
Methyl iodide	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Methyl isobutyl ketone		UG/L	2.5 U	9 U	2.5 U	2.5 U	2.5 U
Methyl methacrylate	50	UG/L	0.5 UJ	1.8 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Methylene bromide	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Methylene chloride	5	UG/L	0.5 U	7.2 J	0.5 U	0.5 U	0.5 U
Naphthalene		UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	0.4	UG/L	25 R	90 R	25 R	25 R	25 R
Ortho Xylene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Pentachloroethane	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Propionitrile		UG/L	25 R	90 R	25 R	25 R	25 R
Propylbenzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Styrene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U
Tetrahydrofuran		UG/L	2.5 U	9 U	2.5 U	2.5 U	2.5 U

Dark Shade: Indicates concentration above detection limit  
 Light Shade: Indicates concentration above action level.

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**TABLE 3-3  
RESULTS OF VOC (METHOD 524.2) ANALYSIS - SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY**

Parameter	Action Level	Units	ASH LANDFILL MWT-1 GROUNDWATER TR2081		ASH LANDFILL MWT-10 GROUNDWATER TR2087		ASH LANDFILL MWT-11 GROUNDWATER TR2088		ASH LANDFILL MWT-3 GROUNDWATER TR2082	
			Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)		
Toluene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes-A		UG/L								
Total Xylenes-B		UG/L								
Trans-1,2-Dichloroethene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.25 J	0.5 U	0.5 U
Trans-1,3-Dichloropropene	0.4	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-butene		UG/L	0.5 UJ	1.8 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Trichloroethene	5	UG/L	0.5 U	17	0.5 U	0.5 U	0.5 U	8.2	0.5 U	0.5 U
Trichlorofluoromethane	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl acetate		UG/L								
Vinyl chloride	2	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,4-Dichloro-2-butene		UG/L								
n-Butylbenzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Chlorotoluene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
sec-Butylbenzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-Butylbenzene	5	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Dark Shade: Indicates concentration above detection limit  
Light Shade: Indicates concentration above action level.





**TABLE 3-3  
RESULTS OF VOC (METHOD 524.2) ANALYSIS - SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY**

STUDY LOCATION: ASH LANDFILL			ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL		
LOC ID: MWT-4			MWT-6	MWT-6	MWT-6	MWT-7	MWT-9		
MATRIX: GROUNDWATER			GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER		
SAMP_ID: TR2083			TR2089	TR2084	TR2085	TR2086	TR2086		
SAMP. DEPTH TOP:	12.28		12.42		12.42		13.97		14.08
SAMP. DEPTH BOT:	12.28		12.42		12.42		13.97		14.08
SAMP DATE	4/9/02		4/9/02		4/9/02		4/9/02		4/9/02
FIELD QC CODE: SA			DU		SA		SA		SA
Parameter	Action Level	Units	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
1,1,1,2-Tetrachloroethane	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,1,1-Trichloroethane	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,1,2,2-Tetrachloroethane		UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	UG/L							
1,1,2-Trichloroethane	1	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,1-Dichloroethane	5	UG/L	1.8 U	0.35 J	0.34 J	11 U	2 U		
1,1-Dichloroethene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,1-Dichloropropene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,2,3-Trichlorobenzene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,2,3-Trichloropropane	0.04	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,2,4-Trichlorobenzene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,2,4-Trimethylbenzene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,2-Dibromo-3-chloropropane	0.04	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,2-Dibromoethane	0.0006	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,2-Dichlorobenzene	3	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,2-Dichloroethane	0.6	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,2-Dichloroethene (total)	70	UG/L							
1,2-Dichloropropane	1	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,3,5-Trimethylbenzene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,3-Dichlorobenzene	3	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,3-Dichloropropane	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,4-Dichlorobenzene	3	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
1,4-Dioxane		UG/L							
2,2-Dichloropropane		UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
2-Chloroethylvinylether		UG/L							
2-Chlorotoluene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
2-Nitropropane		UG/L	90 U	25 U	25 U	550 U	100 U		
Acetone		UG/L	24 J	5 UJ	5 UJ	110 UJ	20 UJ		
Acrolein	5	UG/L							
Acrylonitrile	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
Allyl chloride	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
Benzene	1	UG/L	1.8 U	0.42 J	0.38 J	11 U	2 U		
Bromobenzene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
Bromochloromethane	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
Bromodichloromethane	80	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
Bromoform	80	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
Butyl chloride	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		
Carbon disulfide		UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U		

Dark Shade: Indicates concentration above detection limit  
Light Shade: Indicates concentration above action level.



**TABLE 3-3  
RESULTS OF VOC (METHOD 524.2) ANALYSIS - SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY**

Parameter	Action Level	Units	ASH LANDFILL MWT-6 GROUNDWATER TR2089		ASH LANDFILL MWT-6 GROUNDWATER TR2084		ASH LANDFILL MWT-7 GROUNDWATER TR2085		ASH LANDFILL MWT-9 GROUNDWATER TR2086	
			Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)		
Carbon tetrachloride	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Chloroacetonitrile		UG/L	90 R	25 R	25 R	550 R	100 R			
Chlorobenzene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Chlorodibromomethane	80	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Chloroethane	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Chloroform	7	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Chloroprene	5	UG/L								
Cis-1,2-Dichloroethene	5	UG/L	56	8.2	8	28	82			
Cis-1,3-Dichloropropene	0.4	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Dichlorodifluoromethane	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Dichloromethyl methyl ketone		UG/L	90 R	25 R	25 R	550 R	100 R			
Ethyl benzene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Ethyl ether		UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Ethyl methacrylate		UG/L	1.8 UJ	0.5 UJ	0.5 UJ	11 UJ	2 UJ			
Hexachlorobutadiene	0.5	UG/L	1.8 UJ	0.5 UJ	0.5 UJ	11 UJ	2 UJ			
Hexachloroethane	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Isobutyl alcohol		UG/L								
Isopropylbenzene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Meta/Para Xylene		UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Methacrylonitrile	5	UG/L	1.8 UJ	0.5 UJ	0.5 UJ	11 UJ	2 UJ			
Methyl 2-propenoate		UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Methyl Tertbutyl Ether		UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Methyl bromide	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Methyl butyl ketone		UG/L	9 UJ	2.5 UJ	2.5 UJ	55 UJ	10 UJ			
Methyl chloride	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Methyl ethyl ketone		UG/L	18 R	5 R	5 R	110 R	20 R			
Methyl iodide	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Methyl isobutyl ketone		UG/L	9 U	2.5 U	2.5 U	55 U	10 U			
Methyl methacrylate	50	UG/L	1.8 UJ	0.5 UJ	0.5 UJ	11 UJ	2 UJ			
Methylene bromide	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Methylene chloride	5	UG/L	7.4 J	0.5 U	0.5 U	11 U	0.9 J			
Naphthalene		UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Nitrobenzene	0.4	UG/L	90 R	25 R	25 R	550 R	100 R			
Ortho Xylene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Pentachloroethane	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Propionitrile		UG/L	90 R	25 R	25 R	550 R	100 R			
Propylbenzene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Styrene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Tetrachloroethene	5	UG/L	1.8 U	0.5 U	0.5 U	11 U	2 U			
Tetrahydrofuran		UG/L	9 U	2.5 U	2.5 U	55 U	10 U			

Dark Shade: Indicates concentration above detection limit  
Light Shade: Indicates concentration above action level.

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**TABLE 3-3  
RESULTS OF VOC (METHOD 524.2) ANALYSIS - SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY**

Parameter	Action Level	Units	ASH LANDFILL MWT-6 TR2089		ASH LANDFILL MWT-6 TR2084		ASH LANDFILL MWT-7 TR2085		ASH LANDFILL MWT-9 TR2086	
			Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)		
Toluene	5 UG/L	UG/L	1.8 U	0.5 U	0.5 U	0.5 U	11 U	2 U	14.08	14.08
Total Xylenes	5 UG/L	UG/L	1.8 U	0.5 U	0.5 U	0.5 U	11 U	2 U		
Total Xylenes-A		UG/L								
Total Xylenes-B		UG/L								
Trans-1,2-Dichloroethene	5 UG/L	UG/L	1.8 U	0.5 U	0.5 U	0.5 U	11 U	2 U		
Trans-1,3-Dichloropropene	0.4 UG/L	UG/L	1.8 U	0.5 U	0.5 U	0.5 U	11 U	2 U		
Trans-1,4-Dichloro-2-butene		UG/L	1.8 UJ	0.5 UJ	0.5 UJ	0.5 UJ	11 UJ	2 UJ		
Trichloroethene	5 UG/L	UG/L	1.7 J	0.5 U	0.5 U	0.5 U	540	100		
Trichlorofluoromethane	5 UG/L	UG/L	1.8 U	0.5 U	0.5 U	0.5 U	11 U	2 U		
Vinyl acetate		UG/L								
Vinyl chloride	2 UG/L	UG/L	1.8 U	0.5 U	0.5 U	0.5 U	11 U	2 U		
cis-1,4-Dichloro-2-butene		UG/L								
n-Butylbenzene	5 UG/L	UG/L	1.8 U	0.5 U	0.5 U	0.5 U	11 U	2 U		
p-Chlorotoluene	5 UG/L	UG/L	1.8 U	0.5 U	0.5 U	0.5 U	11 U	2 U		
p-Isopropyltoluene	5 UG/L	UG/L	1.8 U	0.5 U	0.5 U	0.5 U	11 U	2 U		
sec-Butylbenzene	5 UG/L	UG/L	1.8 U	0.5 U	0.5 U	0.5 U	11 U	2 U		
tert-Butylbenzene	5 UG/L	UG/L	1.8 U	0.5 U	0.5 U	0.5 U	11 U	2 U		

Dark Shade: Indicates concentration above detection limit  
Light Shade: Indicates concentration above action level.

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TABLE 3-4  
 RESULTS OF VOC (METHOD 8260B) ANALYSIS - SECOND QUARTER 2002  
 GROUNDWATER MONITORING - ASH LANDFILL  
 SENECA ARMY DEPOT

Parameter	Action Level	Units	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
			MW-28	PT-24	PT-24
			GROUNDWATER	GROUNDWATER	GROUNDWATER
			ARD2171	ARD2175	ARD2174
			10.39	11.88	11.88
			10.39	11.88	11.88
			4/8/02	4/9/02	4/9/02
			SA	DU	SA
Parameter	Action Level	Units	Value (Q)	Value (Q)	Value (Q)
1,1,1,2-Tetrachloroethane	5	UG/L	1 U	1.7 U	1.7 U
1,1,1-Trichloroethane	5	UG/L	1 U	1.7 U	1.7 U
1,1,2,2-Tetrachloroethane		UG/L	1 U	1.7 U	1.7 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	UG/L	1 U	1.7 U	1.7 U
1,1,2-Trichloroethane	1	UG/L	1 U	1.7 U	1.7 U
1,1-Dichloroethane	5	UG/L	1 U	0.44 J	0.42 J
1,1-Dichloroethene	5	UG/L	1 U	1.7 U	1.7 U
1,1-Dichloropropene	5	UG/L	1 U	1.7 U	1.7 U
1,2,3-Trichlorobenzene	5	UG/L	1 U	1.7 U	1.7 U
1,2,3-Trichloropropane	0.04	UG/L	1 U	1.7 U	1.7 U
1,2,4-Trichlorobenzene	5	UG/L	1 U	1.7 U	1.7 U
1,2,4-Trimethylbenzene	5	UG/L	1 U	1.7 U	1.7 U
1,2-Dibromo-3-chloropropane	0.04	UG/L	1 U	1.7 U	1.7 U
1,2-Dibromoethane	0.0006	UG/L	1 U	1.7 U	1.7 U
1,2-Dichlorobenzene	3	UG/L	1 U	1.7 U	1.7 U
1,2-Dichloroethane	0.6	UG/L	1 U	1.7 U	1.7 U
1,2-Dichloroethene (total)	70	UG/L	13	58	57
1,2-Dichloropropane	1	UG/L	1 U	1.7 U	1.7 U
1,3,5-Trimethylbenzene	5	UG/L	1 U	1.7 U	1.7 U
1,3-Dichlorobenzene	3	UG/L	1 U	1.7 U	1.7 U
1,3-Dichloropropane	5	UG/L	1 U	1.7 U	1.7 U
1,4-Dichlorobenzene	3	UG/L	1 U	1.7 U	1.7 U
1,4-Dioxane		UG/L	50 R	85 R	85 R
2,2-Dichloropropane		UG/L	1 U	1.7 U	1.7 U

Dark Shade: Indicates concentration above detection limit.  
 Light Shade: Indicates concentration above action level.

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TABLE 3-4  
 RESULTS OF VOC (METHOD 8260B) ANALYSIS - SECOND QUARTER 2002  
 GROUNDWATER MONITORING - ASH LANDFILL  
 SENECA ARMY DEPOT

Parameter	Action Level	Units	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
			MW-28 GROUNDWATER ARD2171	PT-24 GROUNDWATER ARD2175	PT-24 GROUNDWATER ARD2174
			10.39	11.88	11.88
			10.39	11.88	11.88
			4/8/02	4/9/02	4/9/02
			SA	DU	SA
			Value (Q)	Value (Q)	Value (Q)
2-Chloroethylvinylether		UG/L	1 U	1.7 U	1.7 U
2-Chlorotoluene	5	UG/L	1 U	1.7 U	1.7 U
2-Nitropropane		UG/L			
Acetone		UG/L	5 U	8.5 U	8.5 U
Acrolein	5	UG/L	5 R	8.5 R	8.5 R
Acrylonitrile	5	UG/L	1 U	1.7 U	1.7 U
Allyl chloride	5	UG/L	1 U	1.7 U	1.7 U
Benzene	1	UG/L	1 U	1.7 U	1.7 U
Bromobenzene	5	UG/L	1 U	1.7 U	1.7 U
Bromochloromethane	5	UG/L	1 U	1.7 U	1.7 U
Bromodichloromethane	80	UG/L	1 U	1.7 U	1.7 U
Bromoform	80	UG/L	1 U	1.7 U	1.7 U
Butyl chloride	5	UG/L			
Carbon disulfide		UG/L	1 U	1.7 U	1.7 U
Carbon tetrachloride	5	UG/L	1 U	1.7 U	1.7 U
Chloroacetonitrile		UG/L			
Chlorobenzene	5	UG/L	1 U	1.7 U	1.7 U
Chlorodibromomethane	80	UG/L	1 U	1.7 U	1.7 U
Chloroethane	5	UG/L	1 U	1.7 U	1.7 U
Chloroform	7	UG/L	1 U	1.7 U	1.7 U
Chloroprene	5	UG/L	1 U	1.7 U	1.7 U
Cis-1,2-Dichloroethene	5	UG/L	12	54	53
Cis-1,3-Dichloropropene	0.4	UG/L	1 U	1.7 U	1.7 U
Dichlorodifluoromethane	5	UG/L	1 U	1.7 U	1.7 U

Dark Shade: Indicates concentration above detection limit.  
 Light Shade: Indicates concentration above action level.

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**TABLE 3-4**  
**RESULTS OF VOC (METHOD 8260B) ANALYSIS - SECOND QUARTER 2002**  
**GROUNDWATER MONITORING - ASH LANDFILL**  
**SENECA ARMY DEPOT**

Parameter	Action Level	Units	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
			MW-28	PT-24	PT-24
			GROUNDWATER	GROUNDWATER	GROUNDWATER
			ARD2171	ARD2175	ARD2174
			10.39	11.88	11.88
			10.39	11.88	11.88
			4/8/02	4/9/02	4/9/02
			SA	DU	SA
Parameter	Action Level	Units	Value (Q)	Value (Q)	Value (Q)
Dichloromethyl methyl ketone		UG/L			
Ethyl benzene	5	UG/L	1 U	1.7 U	1.7 U
Ethyl ether		UG/L			
Ethyl methacrylate		UG/L	1 UJ	1.7 U	1.7 U
Hexachlorobutadiene	0.5	UG/L	1 U	1.7 U	1.7 U
Hexachloroethane	5	UG/L			
Isobutyl alcohol		UG/L	50 R	85 R	85 R
Isopropylbenzene	5	UG/L	1 U	1.7 U	1.7 U
Meta/Para Xylene		UG/L			
Methacrylonitrile	5	UG/L	1 U	1.7 U	1.7 U
Methyl 2-propenoate		UG/L			
Methyl Tertbutyl Ether	10	UG/L	1 U	1.7 U	1.7 U
Methyl bromide	5	UG/L	1 U	1.7 U	1.7 U
Methyl butyl ketone		UG/L	5 U	8.5 U	8.5 U
Methyl chloride	5	UG/L	1 U	1.7 U	1.7 U
Methyl ethyl ketone		UG/L	5 U	8.5 U	8.5 U
Methyl iodide	5	UG/L	1 U	1.7 U	1.7 U
Methyl isobutyl ketone		UG/L	5 U	8.5 U	8.5 U
Methyl methacrylate	50	UG/L	1 U	1.7 U	1.7 U
Methylene bromide	5	UG/L	1 U	1.7 U	1.7 U
Methylene chloride	5	UG/L	1 U	1.7 U	1.7 U
Naphthalene		UG/L	1 U	1.7 U	1.7 U
Nitrobenzene	0.4	UG/L			
Ortho Xylene	5	UG/L	1 U	1.7 U	1.7 U

Dark Shade: Indicates concentration above detection limit.  
 Light Shade: Indicates concentration above action level.

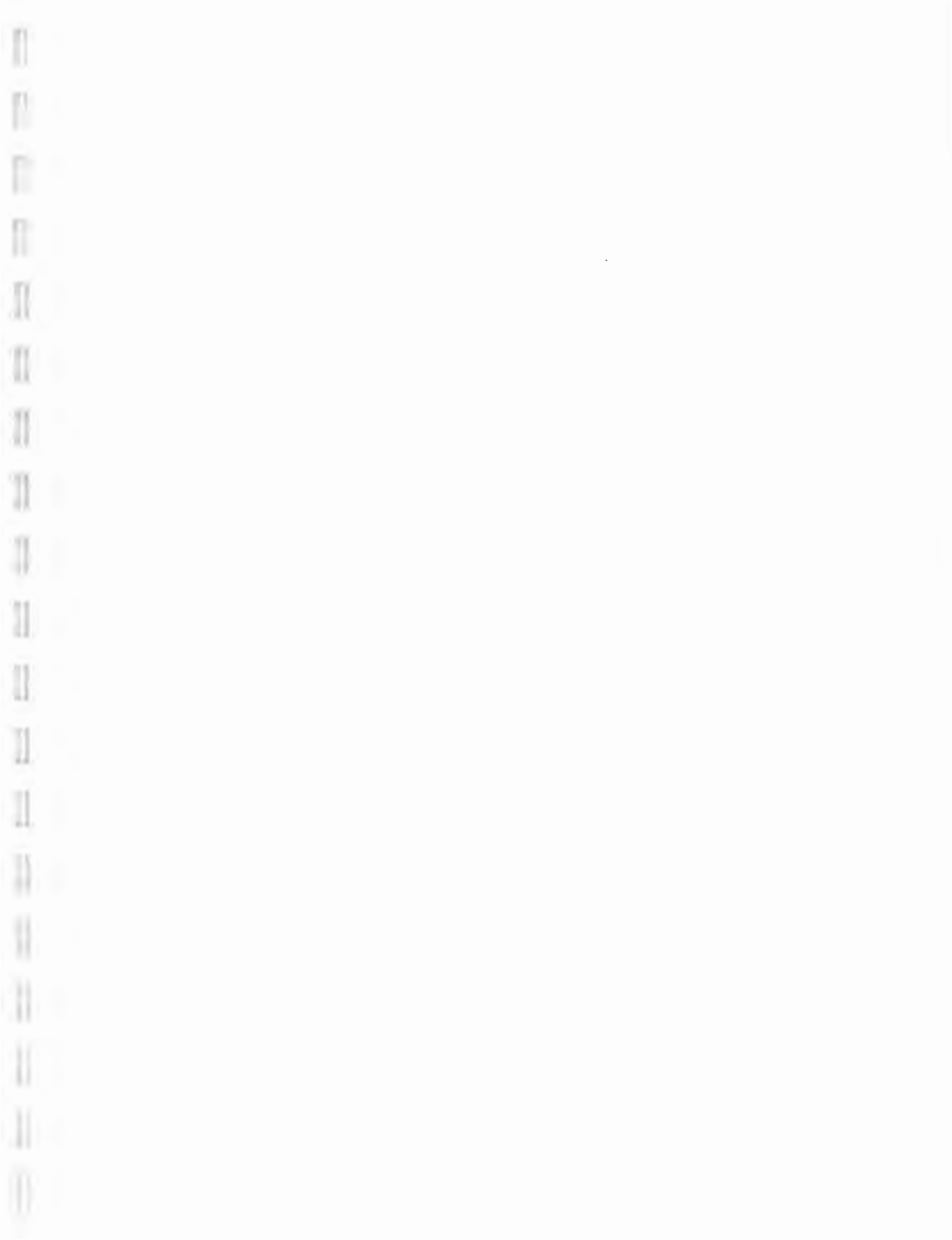


TABLE 3-4  
RESULTS OF VOC (METHOD 8260B) ANALYSIS - SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT

Parameter	Action Level	Units	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
			MW-28 GROUNDWATER ARD2171	PT-24 GROUNDWATER ARD2175	PT-24 GROUNDWATER ARD2174
			10.39	11.88	11.88
			10.39	11.88	11.88
			4/8/02	4/9/02	4/9/02
			SA	DU	SA
			Value (Q)	Value (Q)	Value (Q)
Pentachloroethane	5	UG/L			
Propionitrile		UG/L	4 R	6.8 R	6.8 R
Propylbenzene	5	UG/L	1 U	1.7 U	1.7 U
Styrene	5	UG/L	1 U	1.7 U	1.7 U
Tetrachloroethene	5	UG/L	1 U	1.7 U	1.7 U
Tetrahydrofuran		UG/L	14 U	24 U	24 U
Toluene	5	UG/L	1 U	1.7 U	1.7 U
Total Xylenes	5	UG/L			
Total Xylenes-A		UG/L	1 U	1.7 U	1.7 U
Total Xylenes-B		UG/L	1 U	1.7 U	1.7 U
Trans-1,2-Dichloroethene	5	UG/L	1 U	0.36 J	0.39 J
Trans-1,3-Dichloropropene	0.4	UG/L	1 U	1.7 U	1.7 U
Trans-1,4-Dichloro-2-butene		UG/L	1 U	1.7 U	1.7 U
Trichloroethene	5	UG/L	16	3.2	3.2
Trichlorofluoromethane	5	UG/L	1 U	1.7 U	1.7 U
Vinyl acetate		UG/L	1 U	1.7 U	1.7 U
Vinyl chloride	2	UG/L	1 U	1.7 U	1.7 U
cis-1,4-Dichloro-2-butene		UG/L	1 U	1.7 U	1.7 U
n-Butylbenzene	5	UG/L	1 U	1.7 U	1.7 U
p-Chlorotoluene	5	UG/L	1 U	1.7 U	1.7 U
p-Isopropyltoluene	5	UG/L	1 U	1.7 U	1.7 U
sec-Butylbenzene	5	UG/L	1 U	1.7 U	1.7 U
tert-Butylbenzene	5	UG/L	1 U	1.7 U	1.7 U

Dark Shade: Indicates concentration above detection limit.  
Light Shade: Indicates concentration above action level.

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**TABLE 3-5  
SUMMARY OF VOC DETECTIONS  
GROUNDWATER MONITORING-ASH LANDFILL  
SENECA ARMY DEPOT**

Parameter	Groundwater Standard <sup>(1)</sup>	Units	PT-24	MW-28	MW-30	MW-56	FH-D	FH-S	BN-S	MWT-1	MWT-3	MWT-4	MWT-6	MWT-7	MWT-9	MWT-10	MWT-11
Chloroform	7.0	ug/l	--	--	--	--	0.46J	0.48J	--	--	--	--	--	--	--	--	--
Methyl Tertbutyl Ether	10	ug/l	--	--	--	--	--	--	370	--	--	--	--	--	--	--	--
Acetone	NS	ug/l	--	--	--	--	--	--	--	25J	--	24J	--	--	--	--	--
Benzene	1.0	ug/l	--	--	--	--	--	--	--	--	0.28J	--	0.42J	--	--	0.46J	--
Cis-1,2-Dichloroethene	5.0	ug/l	54	12	--	1.1	--	--	--	64	28	56	8.2	28	82	2.9	--
Methylene Chloride	5.0	ug/l	--	--	--	--	--	--	--	7.2J	--	7.4J	--	--	0.9J	--	--
Trichloroethene	5.0	ug/l	3.2	16	--	--	--	--	--	17	5.2	1.7J	--	540	100	--	--
Trans-1,2-Dichloroethene	5.0	ug/l	0.36J	--	--	--	--	--	--	--	0.25J	--	--	--	--	--	--
1,1-Dichloroethane	5.0	ug/l	0.44J	--	--	--	--	--	--	--	--	--	0.35J	--	--	--	--
1,2-Dichloroethene (Total)	70	ug/l	54	12	--	1.1	--	--	--	64	28	56	8.2J	28	82	2.9	--

Notes:

- (1) The groundwater standard is the lower value of the following:  
New York State Class GA Groundwater Standard  
Federal Primary or Secondary Drinking Water Maximum Contaminant Levels
- (2) NS = No Standard
- (3) Shaded values exceed the groundwater standard.
- (4) Only those parameters that were detected are shown.

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**Table 3-6**  
**Historic TCE and DCE Concentrations Downgradient of PRB**

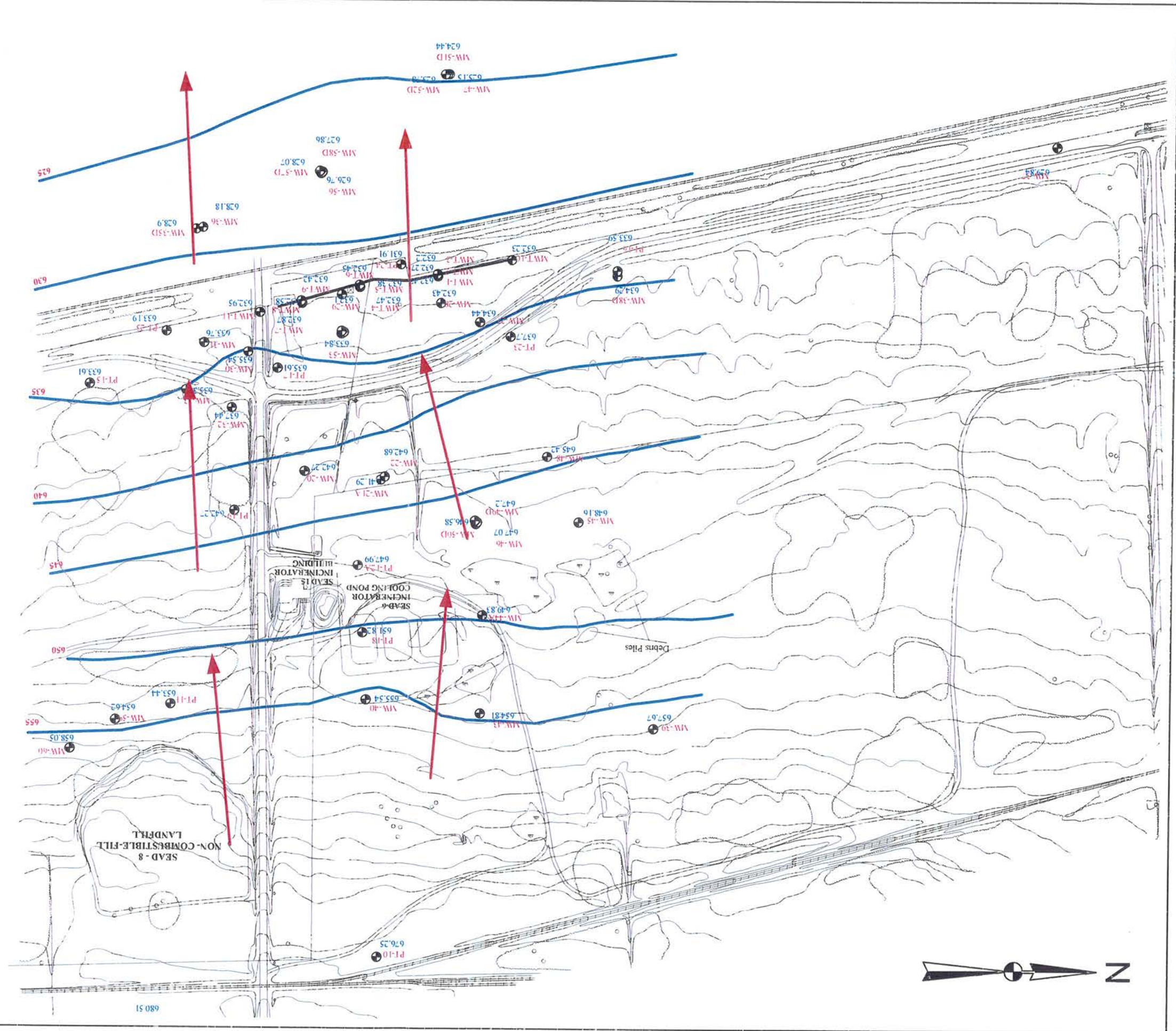
**Seneca Army Depot**

	<b>Groundwater Standard <sup>(1)</sup></b>	<b>Units</b>	<b>April-99</b>	<b>September-02</b>	<b>April-02</b>
<b>Trichloroethene</b>					
MWT-3	5.0	ug/l	1.0 J	6.5	5.2
MWT-6	5.0	ug/l	ND	0.9	ND
MWT-9	5.0	ug/l	43	28	100
<b>Cis 1,2-Dichloroethene</b>					
MWT-3	70	ug/l	27	26	28
MWT-6	70	ug/l	3.0	28	8.2
MWT-9	70	ug/l	32	160	82

Notes:

- (1) The groundwater standard is the lower value of the following:  
 New York State Class GA Groundwater Standard  
 Federal Primary or Secondary Drinking Water Maximum Contaminant Levels





NOTES:  
 GROUNDWATER MEASUREMENTS  
 TAKEN IN APRIL 2002  
 GROUNDWATER ELEVATIONS CONTOURS  
 BASED ON CONDITIONS AT THE TIME  
 OF MEASUREMENT. GROUNDWATER  
 CONDITIONS AT OTHER TIMES  
 MAY VARY.

- LEGEND**
- PAVED ROAD
  - GROUND CONTOUR AND ELEVATION
  - WETLAND & DESIGNATION
  - 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
  - RAILROAD
  - 6" WATER MAIN
  - MONITORING WELL WITH LOCATION DESIGNATION
  - MW-1
  - GROUNDWATER ELEVATION (FT. MSL)
  - 640
  - GROUNDWATER ELEVATION CONTOUR (FT.)

SENECA ARMY DEPOT ACTIVITY  
 ASH LANDFILL  
 GROUNDWATER MONITORING  
 SECOND QUARTER 2002  
 ENVIRONMENTAL ENGINEERING  
 730769-01009

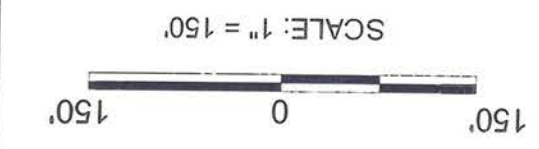
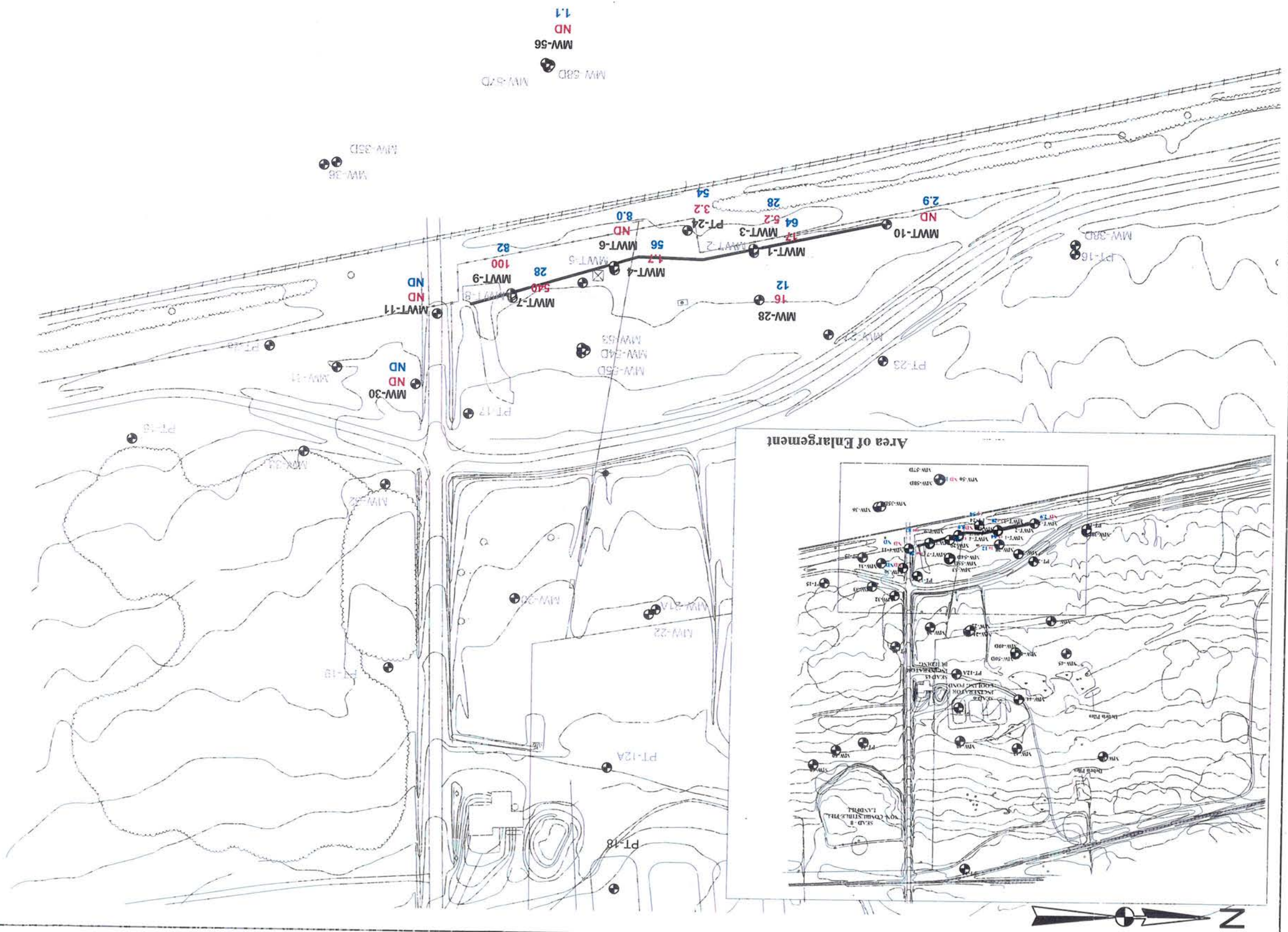
**PARSONS**

FIGURE 3-1  
 GROUNDWATER ELEVATION CONTOURS  
 IN THE  
 TILL WEATHERED SHALE AQUIFER (2Q 2002)

SCALE 1 INCH = 250 FEET  
 JULY 2002







NOTES:  
 GROUNDWATER SAMPLES COLLECTED FOLLOWING EPA REGION II LOW-FLOW SAMPLING PROTOCOL. SAMPLES FOR GROUND WATER QUALITY ANALYSIS COLLECTED ON APRIL 8, 9, AND 10 2002. GROUNDWATER ANALYTICAL DATA BASED ON CONDITIONS AT THE TIME OF SAMPLING. GROUNDWATER CONDITIONS AT OTHER TIMES MAY VARY.

- LEGEND**
- PAVED ROAD
  - GROUND CONTOUR AND ELEVATION
  - WETLAND & DESIGNATION
  - 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
  - RAILROAD
  - 6" WATER MAIN
  - PT-22 MONITORING WELL W/ DESIGNATION
  - TCE 1,2-DICHLOROETHENE (DCE) - ug/L
  - DCE NO DETECTION FOR TRICHLOROETHENE (TCE) - ug/L
  - ND NO DETECTION FOR TRICHLOROETHENE (TCE) - ug/L
  - PERMEABLE REACTIVE BARRIER

**PARSONS**

SENECA ARMY DEPOT ACTIVITY  
 ASH LANDFILL  
 GROUNDWATER MONITORING  
 SECOND QUARTER 2002

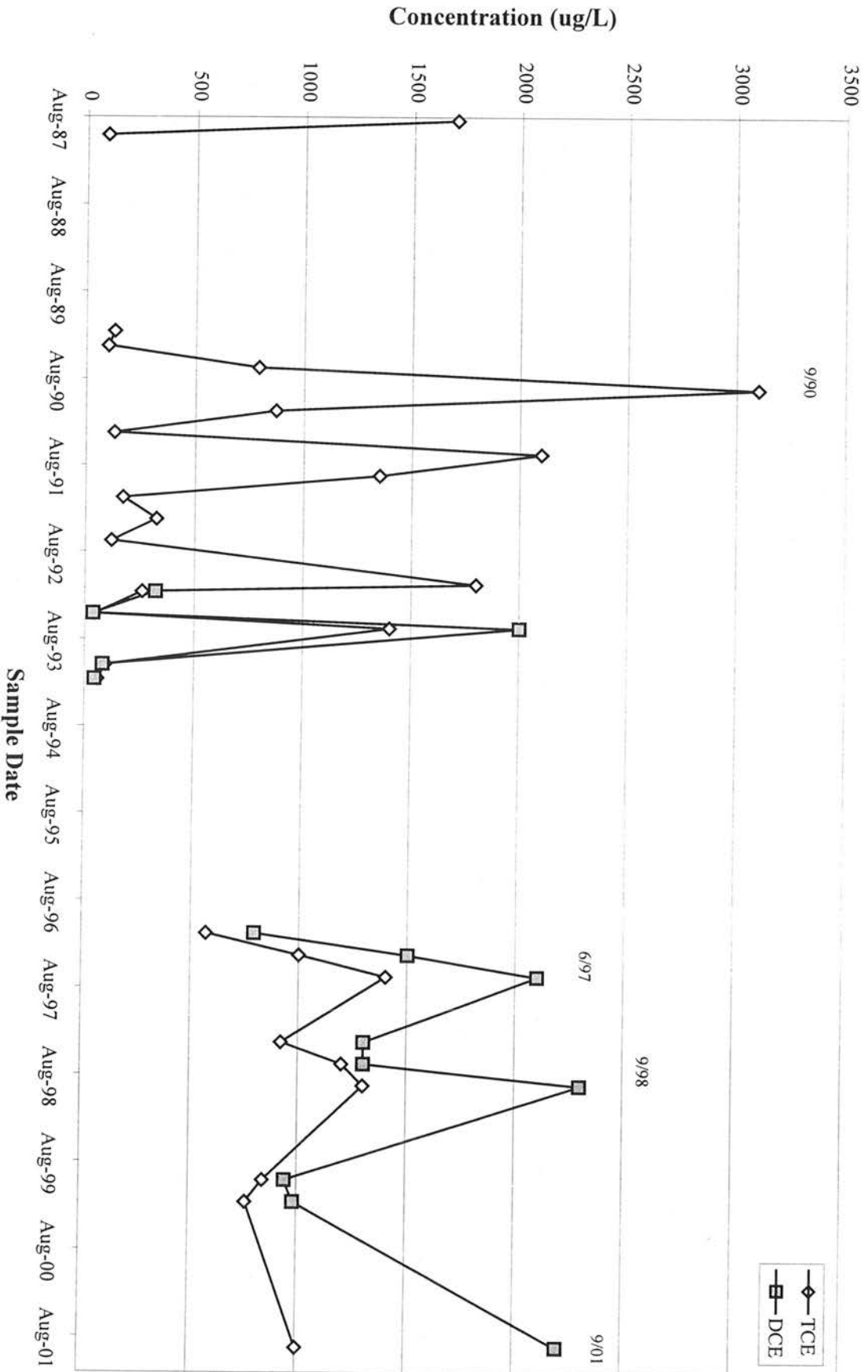
ENVIRONMENTAL ENGINEERING  
 730769-01008

FIGURE 3-2  
 GROUNDWATER ANALYTICAL DATA  
 TCE AND DCE CONCENTRATIONS (2Q 2002)  
 IN THE TILL/WEATHERED SHALE AQUIFER

SCALE: 1 INCH = 150 FEET  
 JULY 2002



**FIGURE 3-3  
 HISTORIC TCE AND DCE CONCENTRATIONS AT PT-12A  
 GROUNDWATER MONITORING - ASH LANDFILL  
 SENECA ARMY DEPOT ACTIVITY**



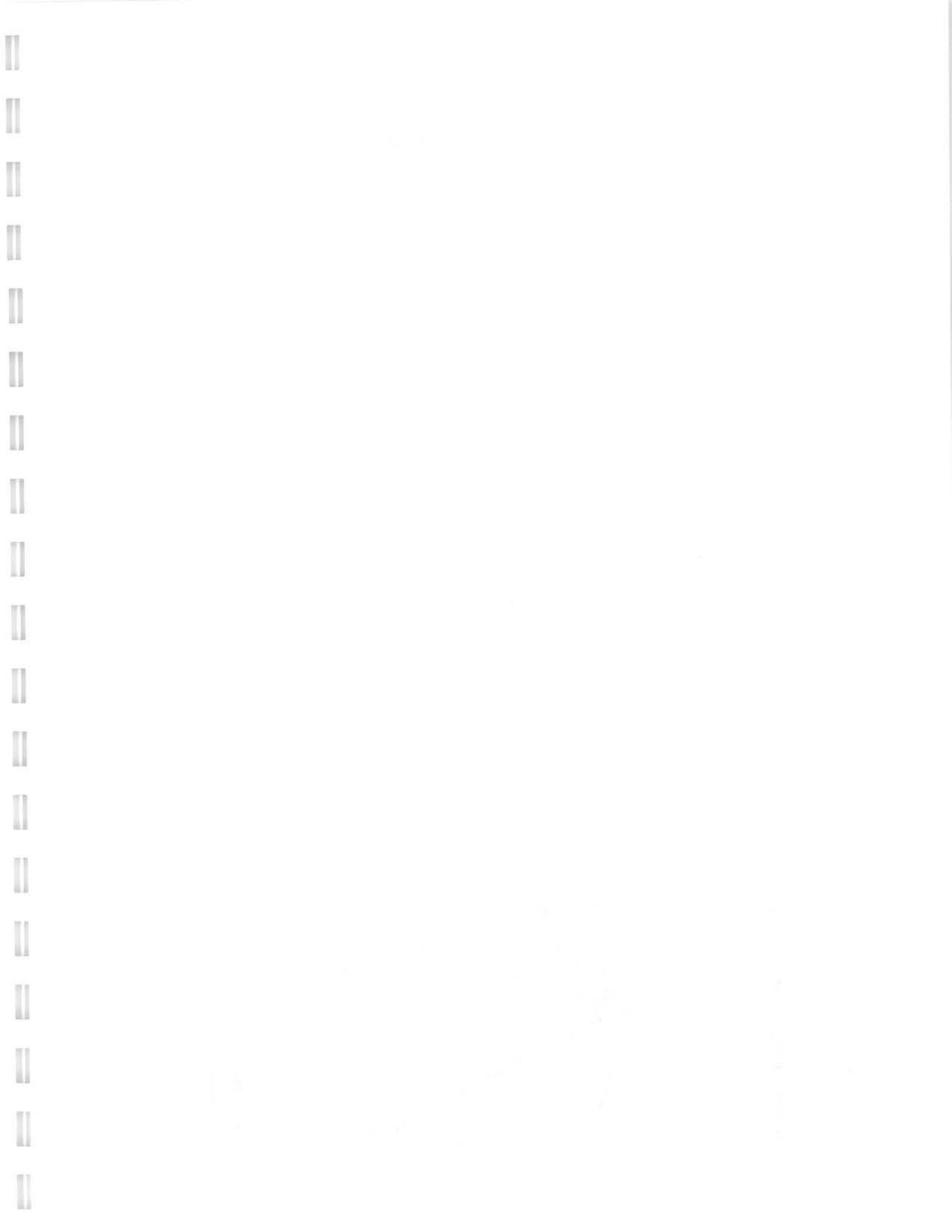




FIGURE 3-4  
 HISTORIC TCE AND DCE CONCENTRATIONS AT PT-18  
 GROUNDWATER MONITORING - ASH LANDFILL  
 SENECA ARMY DEPOT ACTIVITY

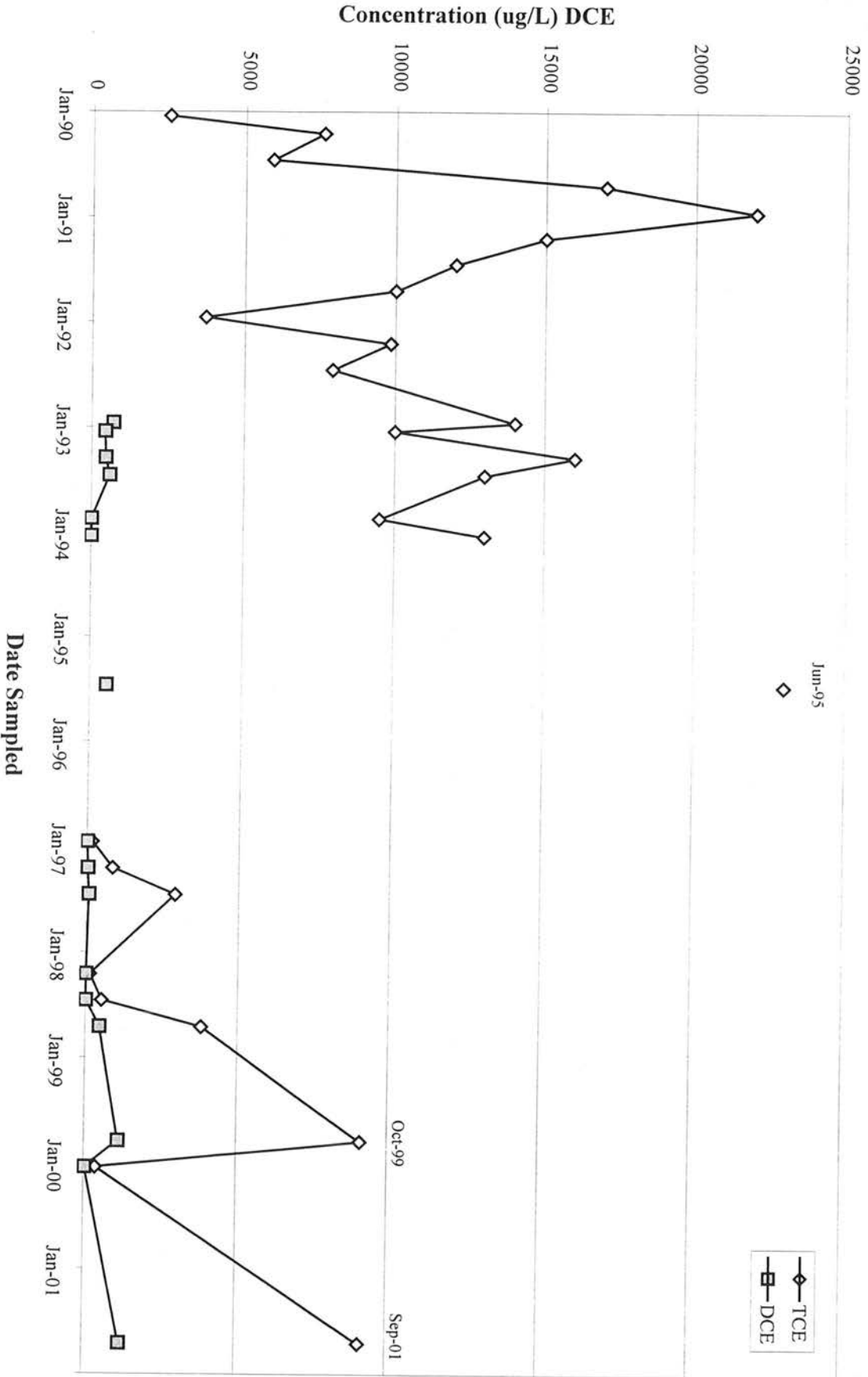
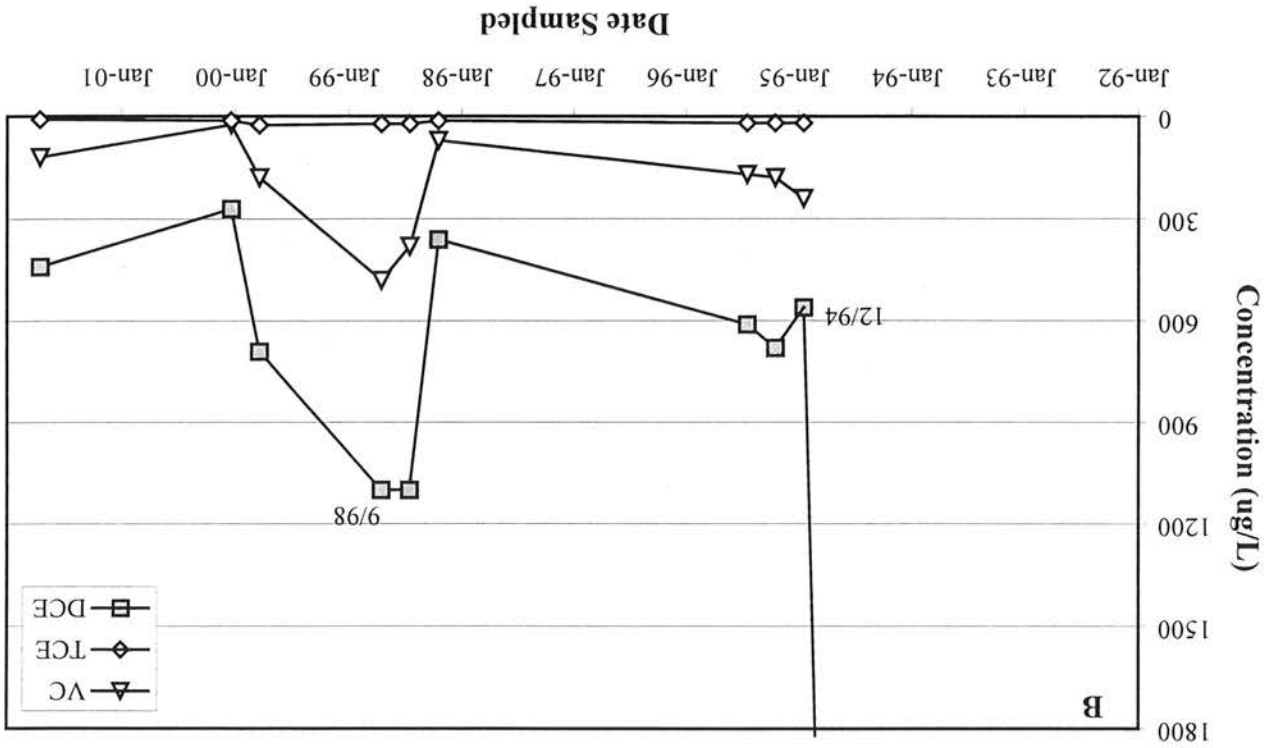
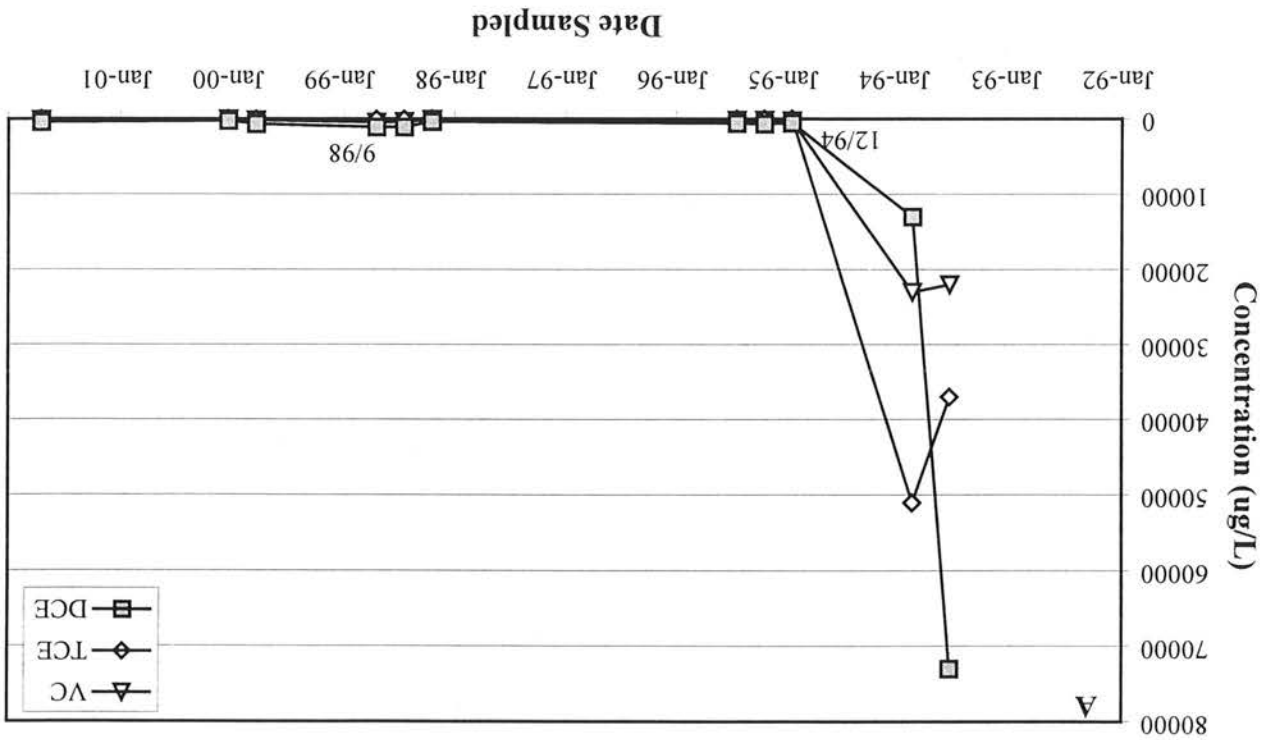




FIGURE 3-5  
 HISTORIC TCE, DCE, AND VINYL CHLORIDE CONCENTRATIONS AT MW -44A  
 GROUNDWATER MONITORING - ASH LANDFILL  
 SENECA ARMY DEPOT ACTIVITY



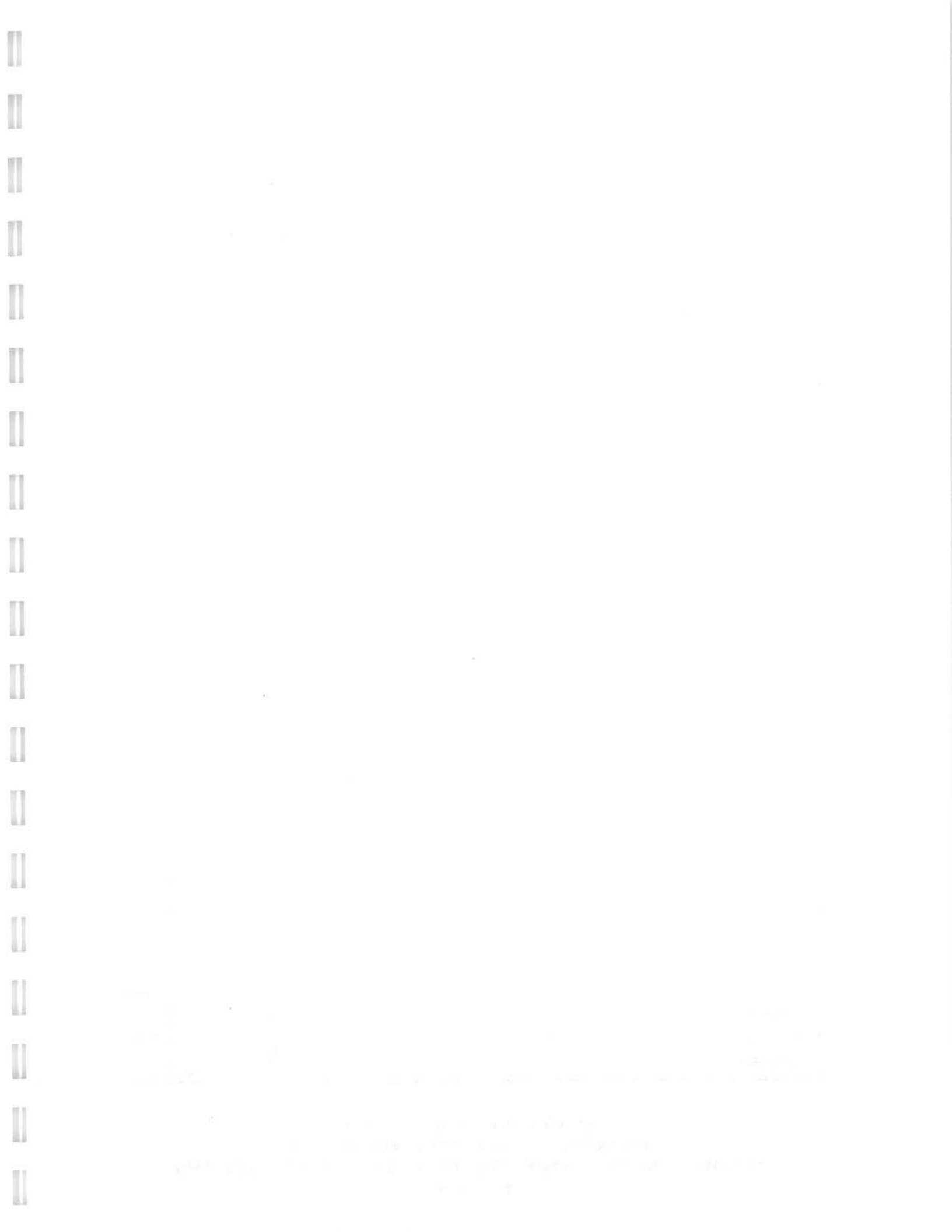
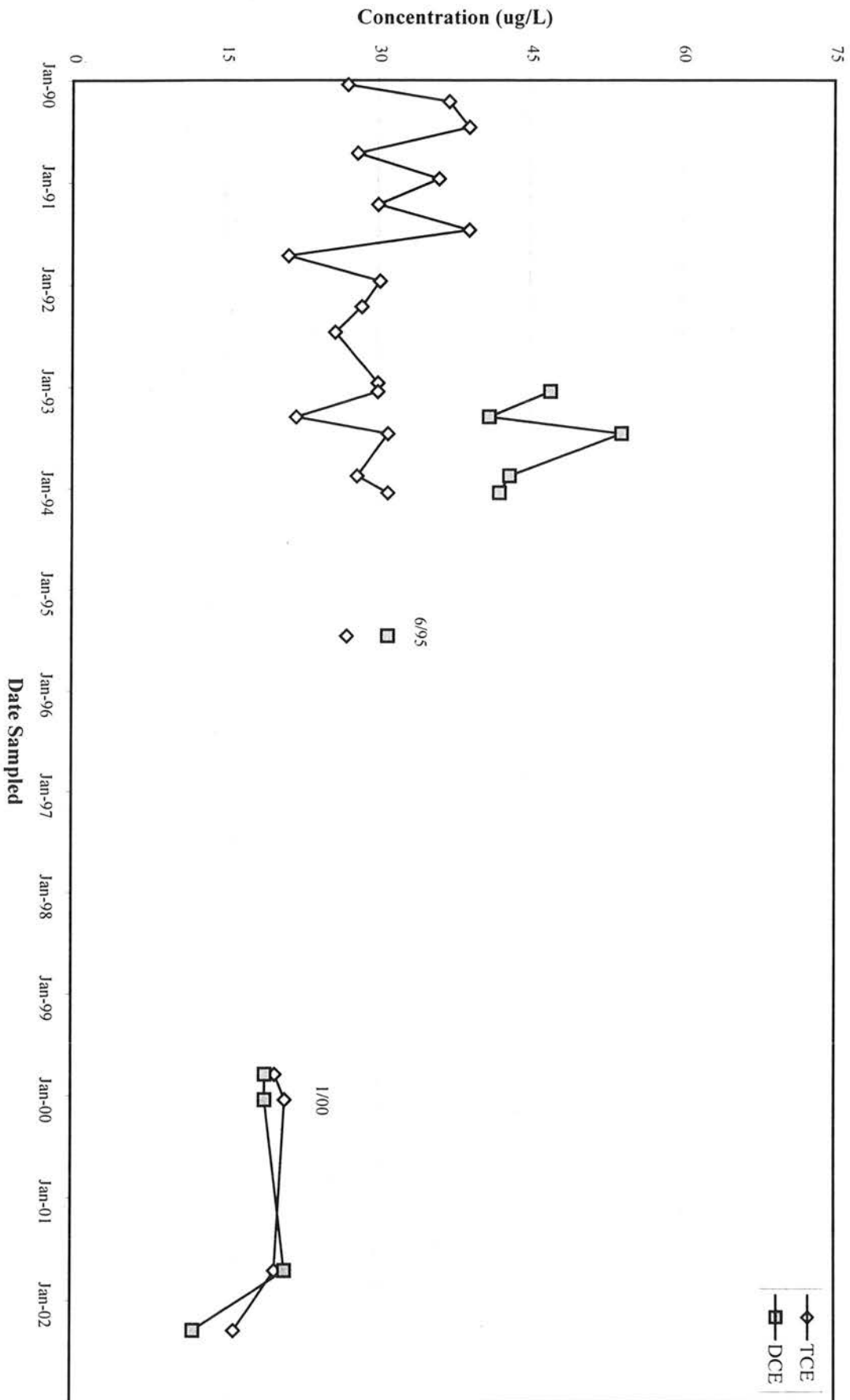


FIGURE 3-6  
 HISTORIC TCE AND DCE CONCENTRATIONS AT MW-28  
 GROUNDWATER MONITORING - ASH LANDFILL  
 SENECA ARMY DEPOT ACTIVITY



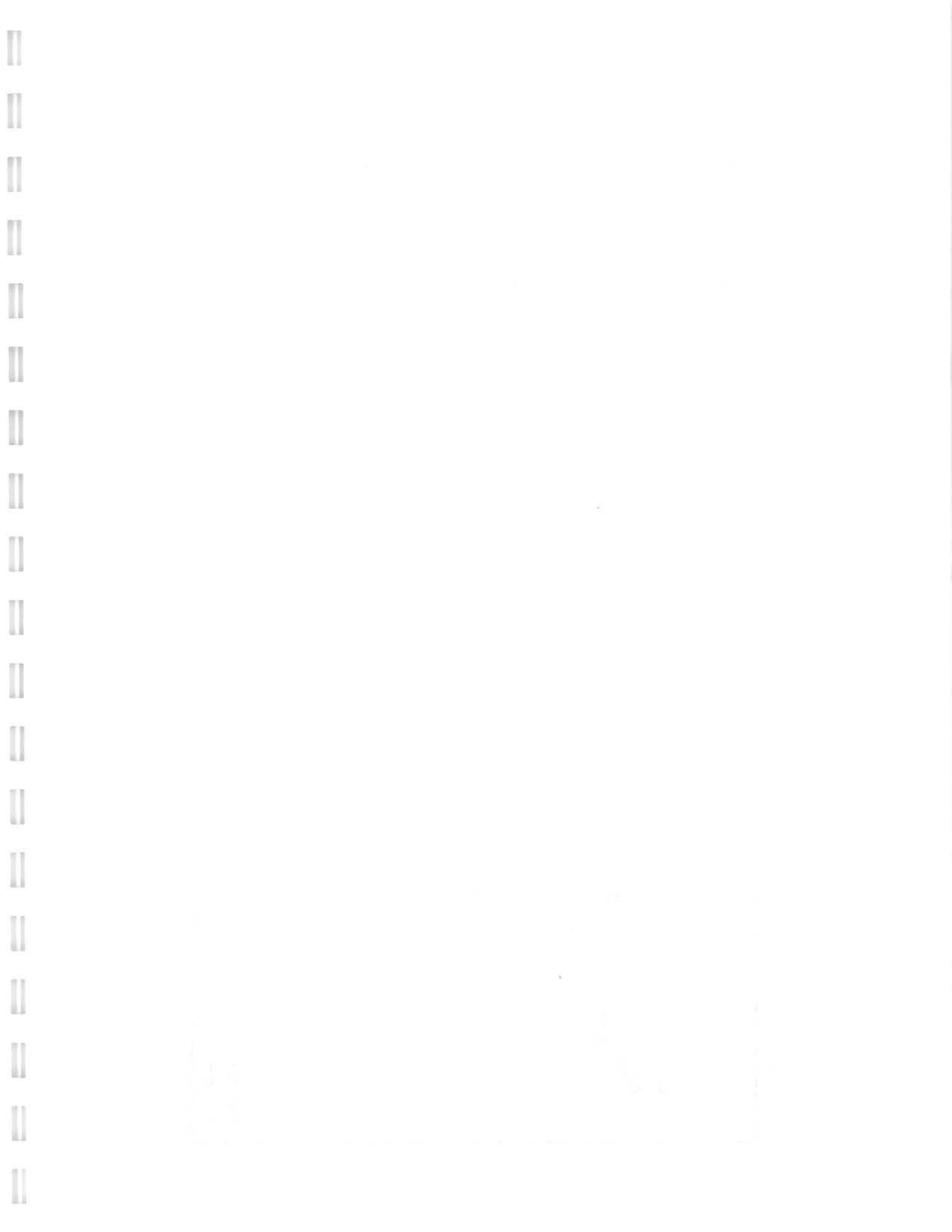


FIGURE 3-7  
 HISTORIC TCE AND DCE CONCENTRATIONS AT MW-30  
 GROUNDWATER MONITORING - ASH LANDFILL  
 SENECA ARMY DEPOT ACTIVITY

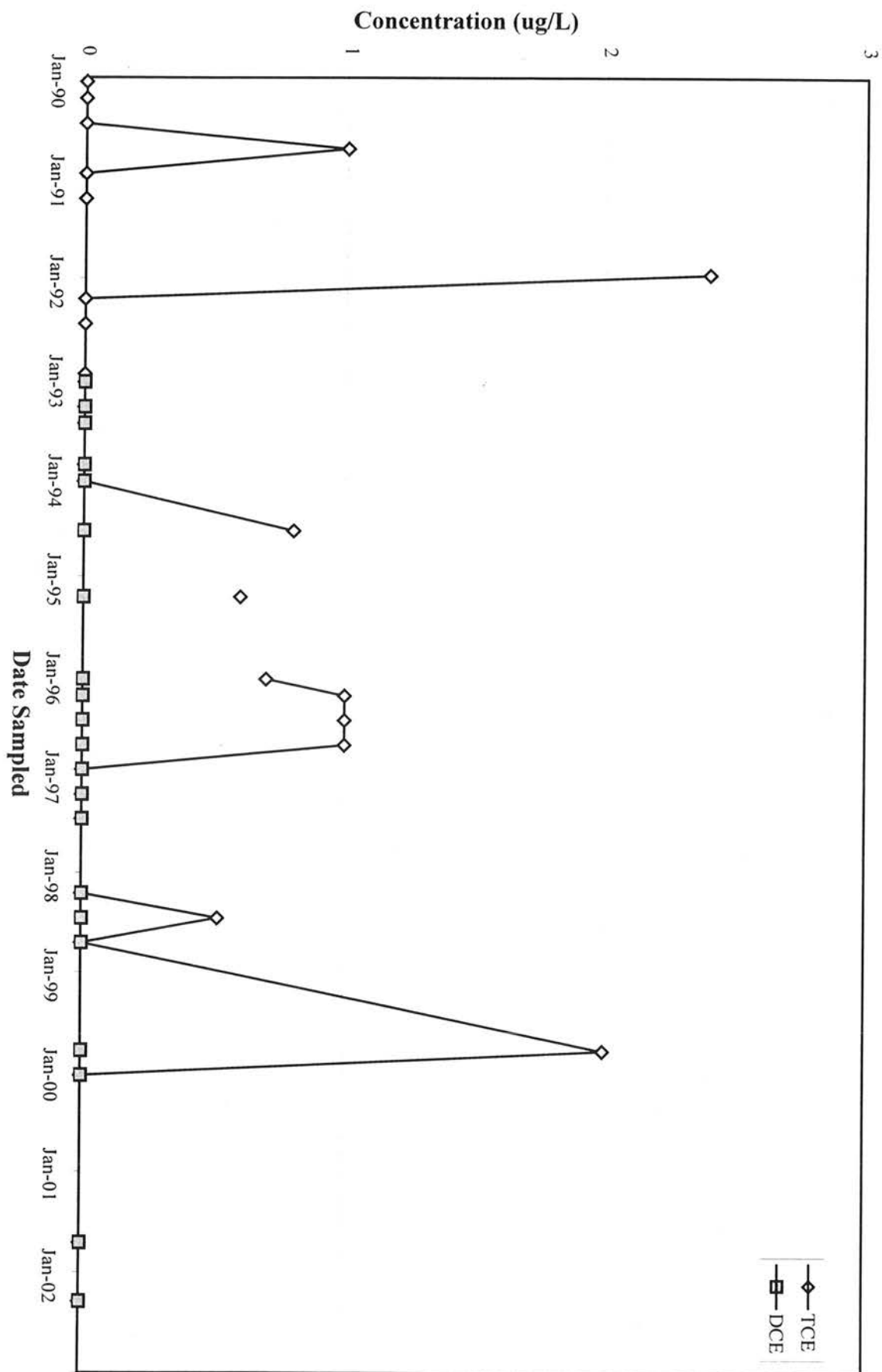
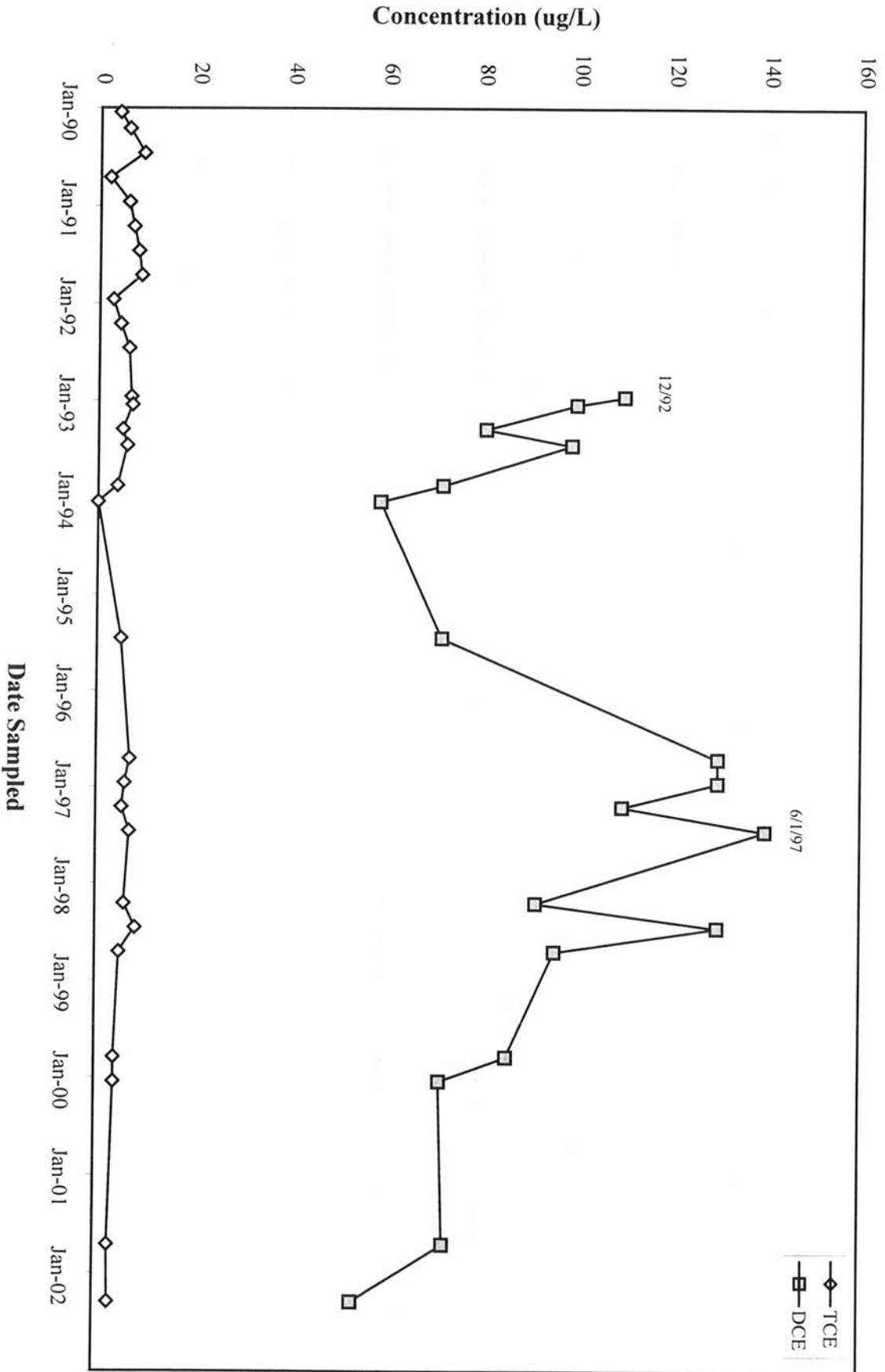
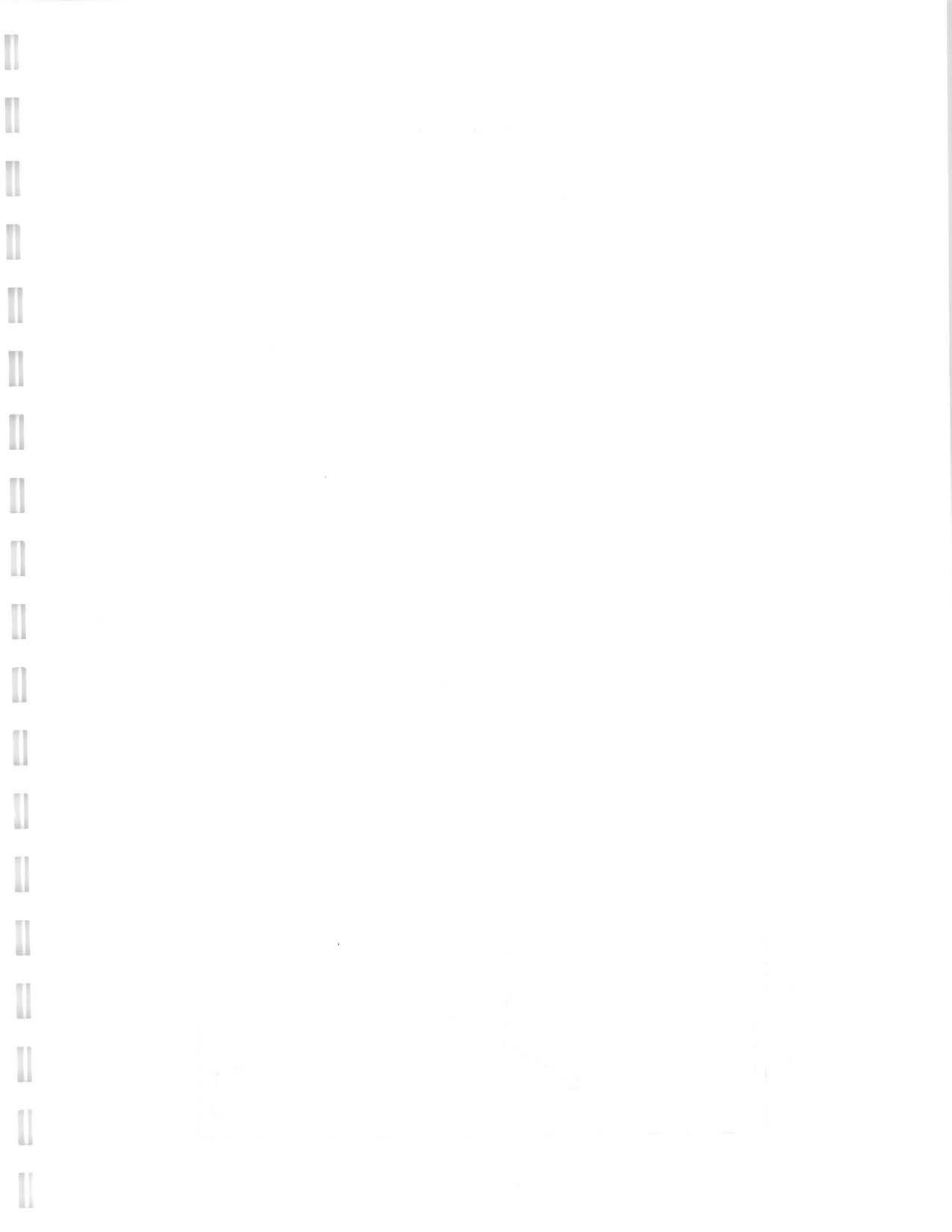






FIGURE 3-8  
 HISTORIC TCE AND DCE CONCENTRATIONS AT PT-24  
 GROUNDWATER MONITORING - ASH LANDFILL  
 SENECA ARMY DEPOT ACTIVITY





SCALE: 1 INCH = 60 FEET  
JULY 2002

ENVIRONMENTAL ENGINEERING  
726209-01000

SENECA ARMY DEPOT ACTIVITY  
ASH LANDFILL GROUNDWATER MONITORING

**PARSONS**

APPROXIMATE LOCATION OF WELLS  
NEAR THE CONTINUOUS REACTIVE WALL

FIGURE 3-9

60 0 60

PAVED ROAD  
GROUND CONTOUR  
AND ELEVATION

WETLAND & DESIGNATION

BRUSH

CHAIN LINK FENCE

UTILITY POLE  
APPROXIMATE LOCATION  
OF FIRE HYDRANT

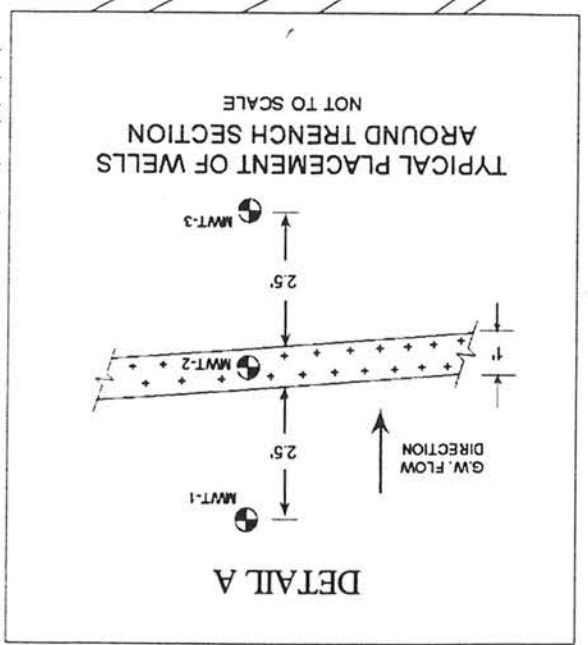
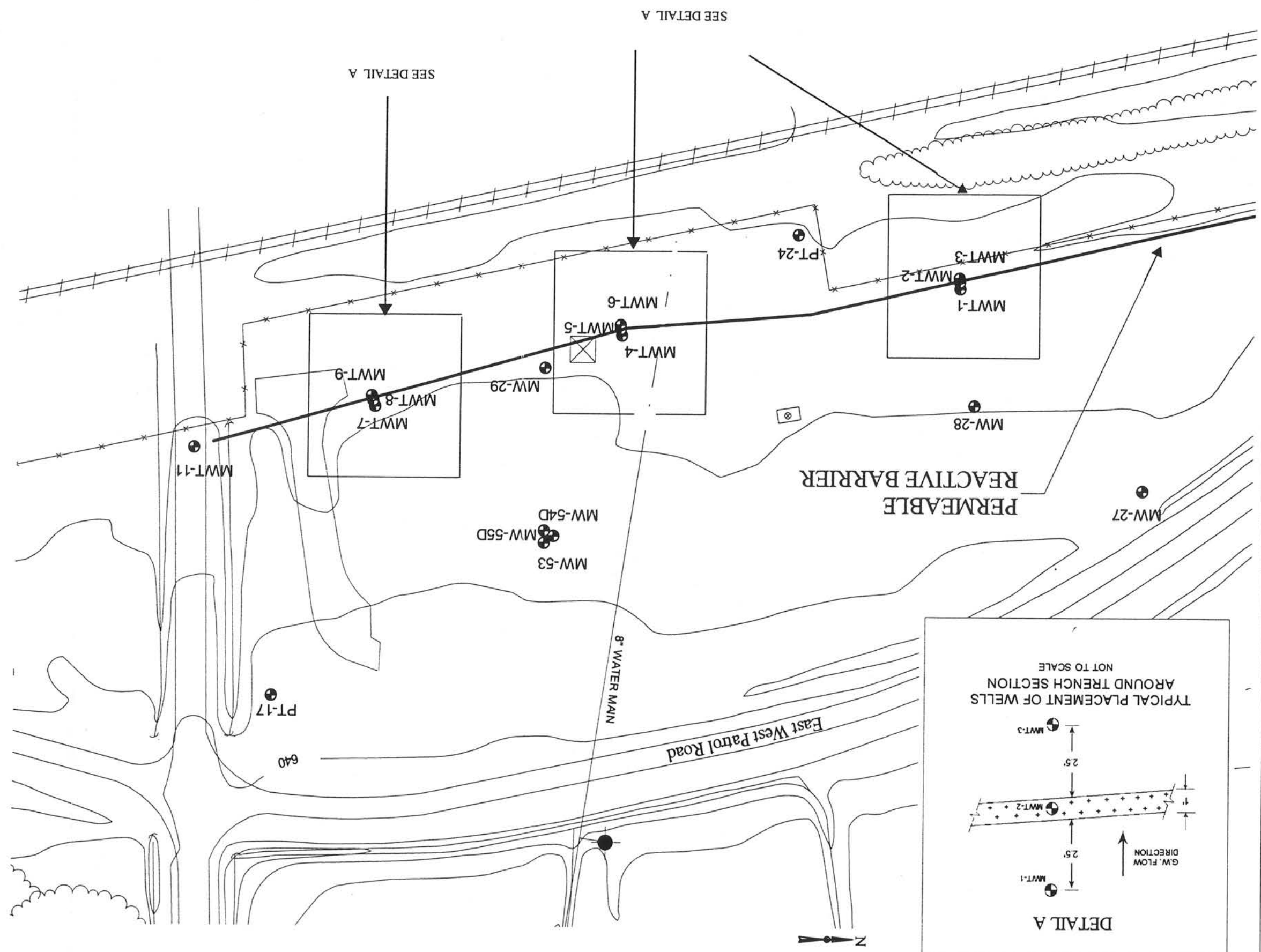
PT-22  
MONITORING WELL  
AND DESIGNATION  
MW-37

RAILROAD

8" WATER MAIN

CONTINUOUS REACTIVE  
WALL

LEGEND





**APPENDIX A**

**GROUNDWATER ELEVATION DATA**

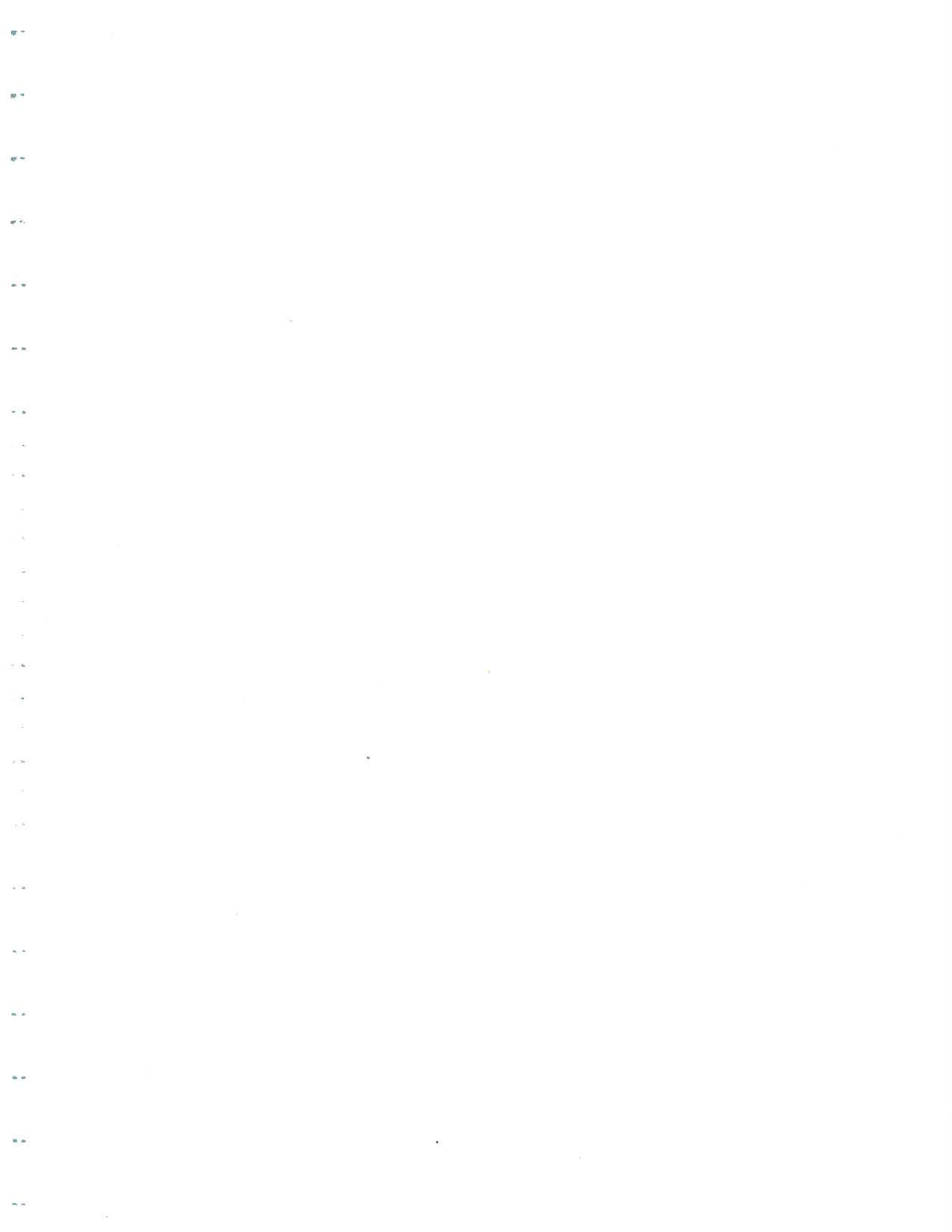
**A1. HISTORICAL GROUNDWATER ELEVATIONS  
(FIRST QUARTER 1995 TO PRESENT)**

**A2. FIELD DATA SHEETS**

**A3. FIELD NOTES**



A1. HISTORICAL GROUNDWATER ELEVATIONS  
(FIRST QUARTER 1995 TO PRESENT)

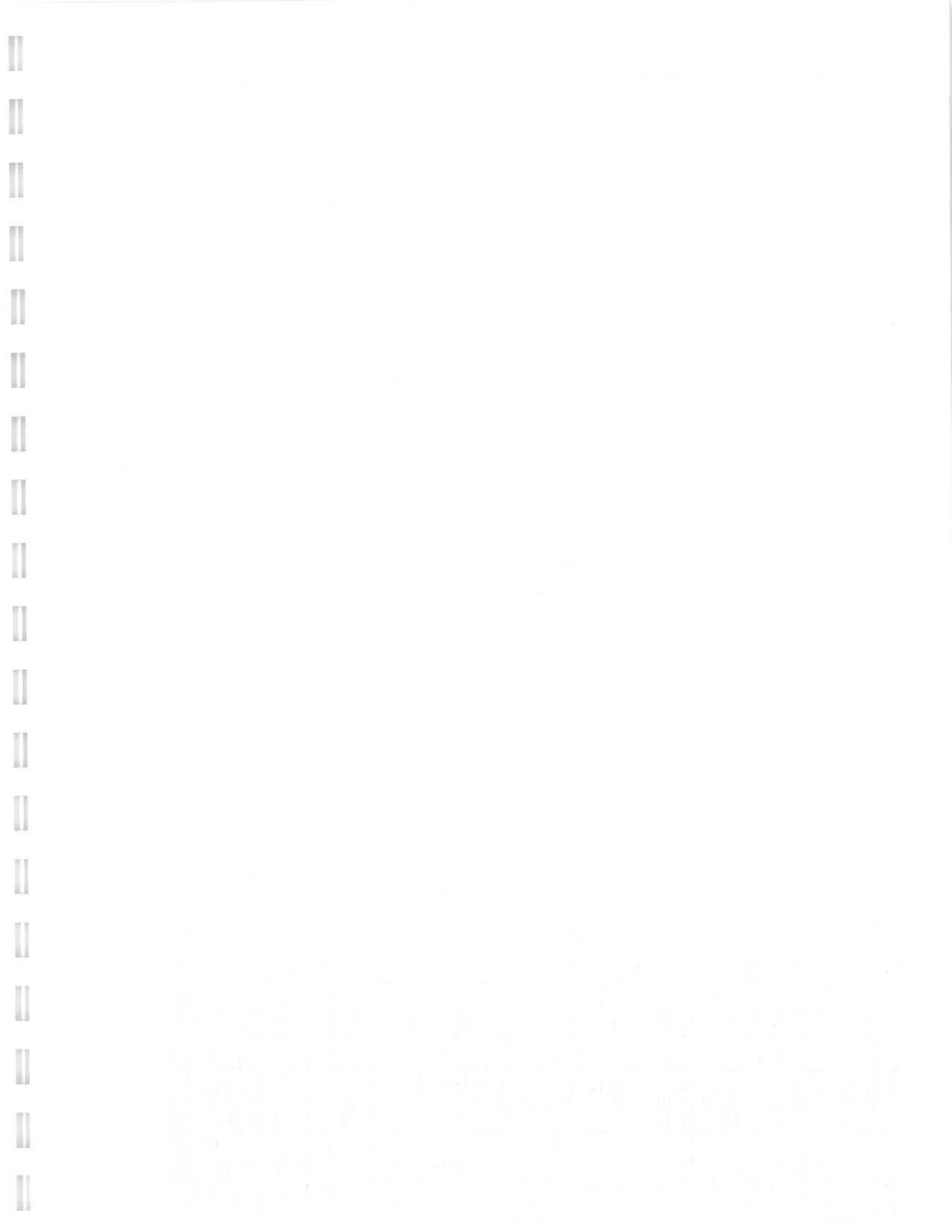




APPENDIX A  
GROUNDWATER ELEVATION DATA - 1995 THROUGH SECOND QUARTER 2007  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY

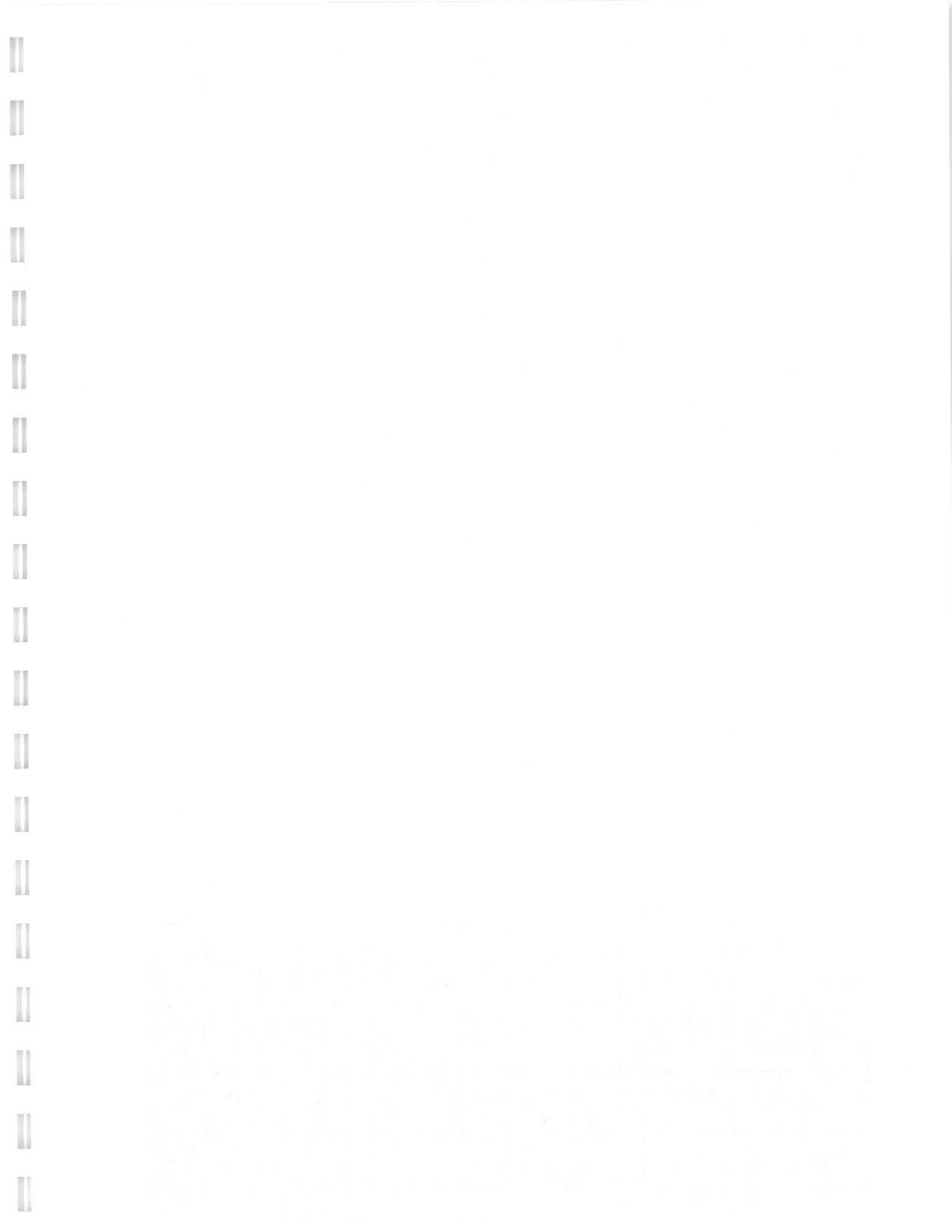
Monitoring Well	Elevation at Top of Riser	First Quarter 1995			Second Quarter 1995			Third Quarter 1995			Fourth Quarter 1995			First Quarter 1996			Second Quarter 1996			Third Quarter 1996		
		Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	
PT-10	681.52	N/A	Not Measured	06/05/1995	671.12	09/12/1995	671.02	1/11/96	673.3	03/14/1996	674.26	06/20/1996	671.87	09/23/1996	674.9							
PT-11	658.22	03/16/1995	653.94	06/05/1995	651.02	09/12/1995	649.83	1/11/96	653.28	03/14/1996	653.78	06/20/1996	651.68	09/23/1996	652.07							
PT-12A	652.15	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	03/14/1996	644.21	06/20/1996	644.27	09/23/1996	644.84							
PT-15	637.76	N/A	Not Measured	06/05/1995	629.56	09/12/1995	628.03	1/11/96	632.82	03/14/1996	632.03	06/20/1996	630.06	09/23/1996	629.72							
PT-16	637.51	N/A	Not Measured	06/05/1995	632.83	09/12/1995	632.15	1/11/96	634.33	03/14/1996	634.85	06/20/1996	634.31	09/23/1996	633.89							
PT-17	640.14	N/A	Not Measured	06/05/1995	632.27	09/12/1995	631.48	1/11/96	633.98	03/14/1996	635.1	06/20/1996	633.78	09/23/1996	635.15							
PT-18	656.68	N/A	Not Measured	06/05/1995	648.44	09/12/1995	647.87	1/11/96	649.46	03/14/1996	649.6	06/20/1996	649.28	09/23/1996	649.24							
PT-19	645.26	03/17/1995	642.16	06/05/1995	638.93	09/12/1995	637.69	1/10/96	641.12	03/14/1996	642.64	06/20/1996	638.99	09/23/1996	638.92							
MMW-20	647.28	N/A	Not Measured	06/05/1995	639.59	09/12/1995	638.45	1/11/96	640.39	03/14/1996	640.64	06/20/1996	640.39	09/23/1996	641.36							
MMW-21A	647.73	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	03/14/1996	639.57	06/20/1996	639.26	09/23/1996	640.71							
MMW-22	648.61	N/A	Not Measured	06/05/1995	639.69	09/12/1995	638.87	1/11/96	639.71	03/14/1996	639.95	06/20/1996	639.64	09/23/1996	Not Measured							
PT-23	641.58	N/A	Not Measured	06/05/1995	634.63	09/12/1995	633.64	1/11/96	636.84	03/14/1996	637.41	06/20/1996	635.43	09/23/1996	636.47							
PT-24	636.40	N/A	Not Measured	06/05/1995	630.99	09/12/1995	630.76	1/11/96	631.32	03/14/1996	631.92	06/20/1996	631.33	09/23/1996	631.6							
PT-25	637.09	N/A	Not Measured	06/05/1995	629.89	09/12/1995	627.25	1/10/96	631.46	03/14/1996	633.05	06/20/1996	630.55	09/23/1996	630.93							
PT-26	614.64	N/A	Not Measured	06/05/1995	607.62	N/A	Not Measured	1/11/96	Not Measured	N/A	Not Measured	06/20/1996	607.92	N/A	Not Measured							
MMW-27	639.32	03/16/1995	634.19	06/05/1995	632.47	09/12/1995	632.58	1/11/96	633.28	03/14/1996	633.62	06/20/1996	632.74	09/23/1996	633.78							
MMW-28	637.21	N/A	Not Measured	06/05/1995	631.28	09/12/1995	631.09	1/11/96	631.55	03/14/1996	631.98	06/20/1996	631.45	09/23/1996	631.86							
MMW-29	637.31	N/A	Not Measured	06/05/1995	629.93	09/12/1995	629.53	1/11/96	630.63	03/14/1996	631.01	06/20/1996	630.35	09/23/1996	630.97							
MMW-30	640.32	03/17/1995	636.22	N/A	Not Measured	09/12/1995	629.9	1/11/96	632.67	03/14/1996	634.44	06/20/1996	633.42	09/23/1996	633.15							
MMW-31	636.70	N/A	Not Measured	06/05/1995	630.21	09/12/1995	628.00	1/11/96	631.82	03/14/1996	633.32	06/20/1996	630.84	09/23/1996	631.44							
MMW-32	641.68	N/A	Not Measured	06/05/1995	633.68	09/12/1995	632.78	1/11/96	634.82	03/14/1996	636.23	06/20/1996	634.66	09/23/1996	634.26							
MMW-33	639.56	N/A	Not Measured	06/05/1995	630.8	09/12/1995	629.94	1/11/96	633.32	03/14/1996	634.6	06/20/1996	631.51	09/23/1996	632.16							
MMW-34	632.89	N/A	Not Measured	06/05/1995	626.96	09/12/1995	623.99	1/10/96	628.17	03/14/1996	629.73	06/20/1996	627.56	09/23/1996	627.9							
MMW-35D	631.82	N/A	Not Measured	06/05/1995	627.67	09/12/1995	626.39	1/10/96	628.93	03/14/1996	629.44	06/20/1996	626.49	N/A	Not Measured							
MMW-36	631.79	03/16/1995	629.45	06/05/1995	627.43	09/12/1995	625.85	1/10/96	628.82	03/14/1996	629.47	06/20/1996	628.79	09/23/1996	628.49							
MMW-37	632.89	N/A	Not Measured	06/05/1995	628.31	09/12/1995	626.93	1/11/96	629.57	03/14/1996	630.65	06/20/1996	629.49	09/23/1996	628.55							
MMW-38D	637.90	N/A	Not Measured	06/05/1995	632.67	09/12/1995	628.99	1/11/96	634.02	03/14/1996	634.43	06/20/1996	633.81	09/23/1996	633.64							
MMW-39	659.54	N/A	Not Measured	06/05/1995	655.58	09/12/1995	654.27	1/11/96	657.63	03/14/1996	Frozen	06/20/1996	Frozen	09/23/1996	657.38							
MMW-40	659.30	Mar. 1995	655.69	06/05/1995	652.82	09/12/1995	651.84	1/11/96	654.86	N/A	Not Measured	06/20/1996	653.1	09/23/1996	654.52							
MMW-41D	694.02	N/A	Not Measured	06/05/1995	685.54	09/12/1995	685.26	1/11/96	686.7	03/14/1996	687.02	06/20/1996	685.86	09/23/1996	686.2							

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APPENDIX A  
GROUNDWATER ELEVATION DATA - 1995 THROUGH SECOND QUARTER 2001  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY

Monitoring Well	Elevation at Top of Risers	First Quarter 1995		Second Quarter 1995		Third Quarter 1995		Fourth Quarter 1995		First Quarter 1996		Second Quarter 1996		Third Quarter 1996	
		Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)
MW-42D	683.04	N/A	Not Measured	06/05/1995	677.07	09/12/1995	674.70	1/11/96	679.02	03/14/1996	679.51	06/20/1996	677.5	09/23/1996	678.25
MW-43	657.73	N/A	Not Measured	06/05/1995	653.01	09/12/1995	652.00	N/A	Not Measured	03/14/1996	Frozen	06/20/1996	654.7	09/23/1996	654.57
MW-44A	653.85	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	03/14/1996	644.92	06/20/1996	645.8	09/23/1996	644.19
MW-45	650.90	03/17/1995	647.85	06/05/1995	645.64	09/12/1995	644.56	N/A	Not Measured	03/14/1996	Frozen	06/20/1996	647.43	09/23/1996	647.67
MW-46	650.41	N/A	Not Measured	06/05/1995	643.35	09/12/1995	642.45	1/11/96	644.25	03/14/1996	644.69	06/20/1996	644.66	09/23/1996	644.47
MW-47	628.06	03/16/1995	625.22	06/05/1995	621.58	09/12/1995	622.10	N/A	Not Measured	03/14/1996	Frozen	06/20/1996	624.46	09/23/1996	623.72
MW-48	648.32	03/17/1995	645.22	06/05/1995	642.19	09/12/1995	641.46	1/11/96	644.62	03/14/1996	Frozen	06/20/1996	643.55	09/23/1996	644.6
MW-49D	650.50	N/A	Not Measured	06/05/1995	643.4	09/12/1995	642.62	1/11/96	644.41	03/14/1996	644.79	06/20/1996	644.63	09/23/1996	644.6
MW-50D	649.88	N/A	Not Measured	06/05/1995	643	09/12/1995	642.19	1/11/96	643.86	03/14/1996	644.1	06/20/1996	643.68	09/23/1996	644.17
MW-51D	628.24	N/A	Not Measured	06/05/1995	621.61	09/12/1995	622.12	1/11/96	628.24	03/14/1996	625.46	06/20/1996	624.54	09/23/1996	623.82
MW-52D	626.35	N/A	Not Measured	06/05/1995	620.23	09/12/1995	620.67	1/11/96	623.35	03/14/1996	Frozen	06/20/1996	622.69	09/23/1996	622.32
MW-53	639.41	N/A	Not Measured	06/05/1995	630.96	09/12/1995	630.47	1/11/96	631.55	03/14/1996	632.43	06/20/1996	631.13	09/23/1996	632.39
MW-54D	639.11	N/A	Not Measured	06/05/1995	630.81	09/12/1995	630.35	1/11/96	631.45	03/14/1996	632.14	06/20/1996	631.03	09/23/1996	632.19
MW-55D	639.16	N/A	Not Measured	06/05/1995	630.98	09/12/1995	630.54	1/11/96	631.74	03/14/1996	632.28	06/20/1996	631.25	09/23/1996	632.38
MW-56	630.51	03/16/1995	627.56	06/05/1995	626.37	09/12/1995	626.20	N/A	Not Measured	03/14/1996	Frozen	06/20/1996	627.5	09/23/1996	627.31
MW-57D	629.82	N/A	Not Measured	06/05/1995	626.03	09/12/1995	626.12	1/11/96	627.4	03/14/1996	627.91	06/20/1996	627.62	09/23/1996	627.53
MW-58D	629.69	N/A	Not Measured	06/05/1995	626.09	09/12/1995	626.17	1/11/96	627.49	03/14/1996	627.44	06/20/1996	627.6	09/23/1996	627.63
MW-59	656.83	03/17/1995	654.93	06/05/1995	653.57	09/12/1995	652.25	1/11/96	654.69	03/14/1996	Frozen	06/20/1996	654.92	09/23/1996	654.14
MW-60	660.15	03/17/1995	658.13	06/05/1995	656.32	09/12/1995	654.82	1/11/96	657.81	03/14/1996	Frozen	06/20/1996	Frozen	09/23/1996	657.69
MW-T-1	637.24	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured
MW-T-2	637.19	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured
MW-T-3	637.31	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured
MW-T-4	637.68	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured
MW-T-5	637.72	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured
MW-T-6	637.59	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured
MW-T-7	638.34	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured
MW-T-8	638.40	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured
MW-T-9	638.08	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured
MW-T-10	636.07	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured
MW-T-11	635.90	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured



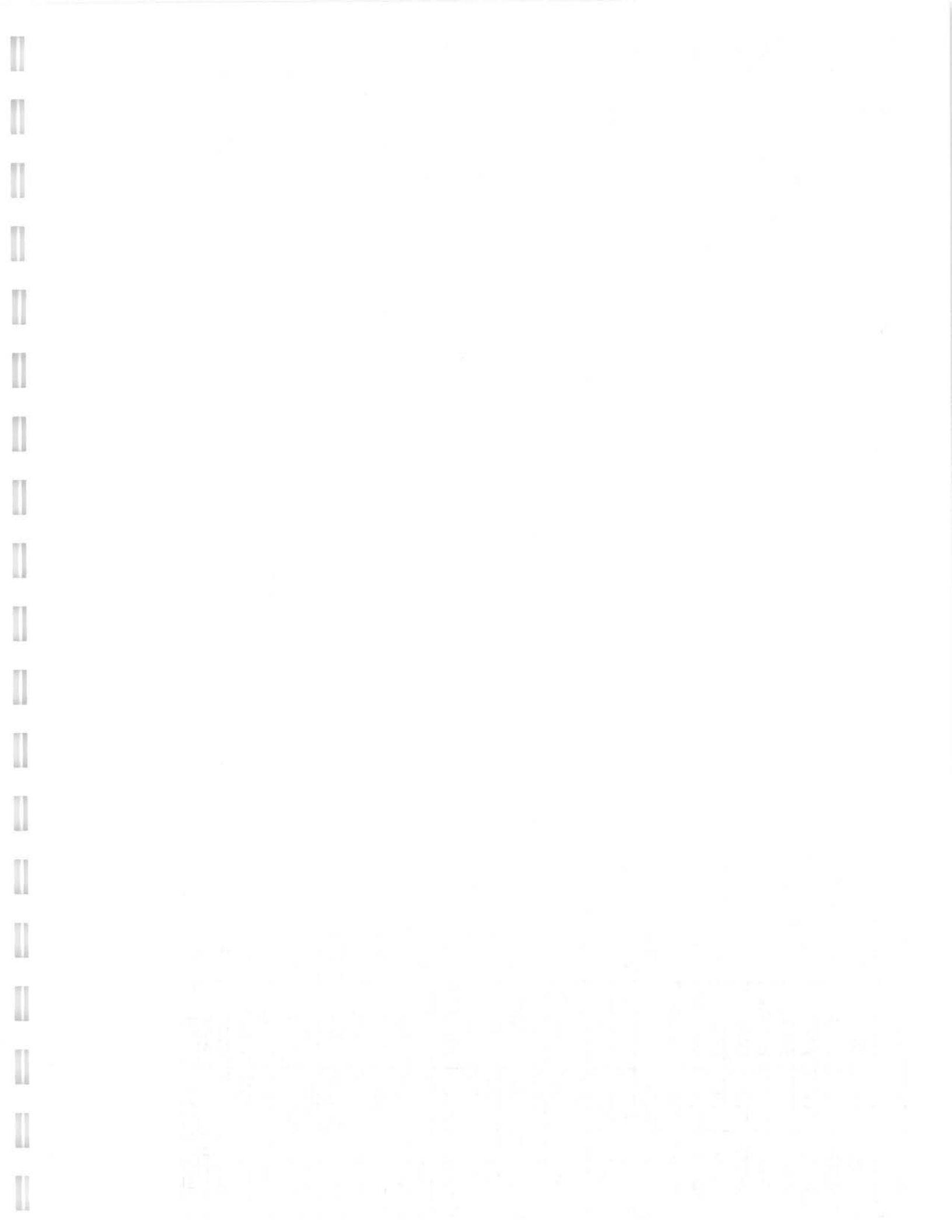
APPENDIX A  
GROUNDWATER ELEVATION DATA - 1995 THROUGH SECOND QUARTER 2000  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY

Monitoring Well	Elevation at Top of Risers	Fourth Quarter 1996		First Quarter 1997		Second Quarter 1997		First Quarter 1998		Second Quarter 1998		Third Quarter 1998		Fourth Quarter 1999 (1)	
		Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)
PT-10	681.52	01/06/1997	676.21	03/18/1997	676.22	06/17/1997	672.49	03/23/98	676.9	06/16/98	675.22	09/18/98	671.23	10/07/1999	673.42
PT-11	658.22	01/06/1997	654.03	03/18/1997	653.81	06/17/1997	651.99	03/23/98	653.98	06/16/98	653.79	09/18/98	648.65	10/07/1999	648.19
PT-12A	652.15	01/06/1997	647.9	03/18/1997	646.3	06/17/1997	644.62	03/23/98	649.01	06/16/98	646.9	09/18/98	642.86	10/07/1999	645.15
PT-15	637.76	01/06/1997	632.71	03/18/1997	633.17	06/17/1997	631.28	03/23/98	633.74	06/16/98	630.62	09/18/98	627.94	10/07/1999	627.4
PT-16	637.51	01/06/1997	634.49	03/18/1997	634.58	06/17/1997	633.46	03/23/98	634.71	06/16/98	633.71	09/18/98	630.99	10/07/1999	630.31
PT-17	640.14	01/06/1997	635.44	03/18/1997	635.39	06/17/1997	632.74	03/23/98	635.85	06/16/98	635.17	09/18/98	630.18	10/07/1999	632.88
PT-18	656.68	01/06/1997	651.71	03/18/1997	651.13	06/17/1997	649.59	03/23/98	652.28	06/16/98	650.34	09/18/98	647.62	10/07/1999	647.28
PT-19	645.26	01/06/1997	642.08	03/18/1997	641.92	06/17/1997	639.92	03/23/98	643.09	06/16/98	640.36	09/18/98	637.43	10/07/1999	637.93
MW-20	647.28	01/06/1997	641.54	03/18/1997	641.56	06/17/1997	640.07	03/23/98	642.34	06/16/98	641.59	09/18/98	637.41	10/07/1999	639.7
MW-21A	647.73	01/06/1997	641.64	03/18/1997	642.54	06/17/1997	639.52	03/23/98	643.84	06/16/98	641.27	09/18/98	637.94	10/07/1999	638.61
MW-22	648.61	01/06/1997	642.11	03/18/1997	641.98	06/17/1997	641	03/23/98	644.3	06/16/98	641.65	09/18/98	638.26	10/07/1999	638.81
PT-23	641.58	01/06/1997	638.14	03/18/1997	637.64	06/17/1997	635.21	03/23/98	637.92	06/16/98	637.56	09/18/98	633.11	10/07/1999	633.66
PT-24	636.40	01/06/1997	631.76	03/18/1997	631.71	06/17/1997	631.36	03/23/98	632.76	06/16/98	631.71	09/18/98	629.3	10/07/1999	628.96
PT-25	637.09	01/06/1997	633.13	03/18/1997	633.17	06/17/1997	631.13	03/23/98	633.51	06/16/98	632.61	09/18/98	625.74	10/07/1999	628.17
PT-26	614.64	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	03/23/98	611.6	N/A	Not Measured	09/18/98	604.1	10/07/1999	601.53
MW-27	639.32	01/06/1997	634.11	03/18/1997	634.07	06/17/1997	632.84	03/23/98	634.88	06/16/98	633.96	09/18/98	631.65	10/07/1999	633.4
MW-28	637.21	01/06/1997	631.99	03/18/1997	632.03	06/17/1997	631.6	03/23/98	632.57	06/16/98	632.07	09/18/98	629.75	10/07/1999	629.77
MW-29	637.31	01/06/1997	631.17	03/18/1997	631.22	06/17/1997	630.66	03/23/98	631.21	06/16/98	630.92	09/18/98	627.41	10/07/1999	627.3
MW-30	640.32	01/06/1997	636.12	03/18/1997	635.99	06/17/1997	631.97	03/23/98	636.38	06/16/98	635	09/18/98	629.88	10/07/1999	631.38
MW-31	636.70	01/06/1997	633.78	03/18/1997	633.74	06/17/1997	631.4	03/23/98	634.22	06/16/98	633.08	09/18/98	627.02	10/07/1999	628.79
MW-32	641.68	01/06/1997	637.15	03/18/1997	636.73	06/17/1997	633.75	03/23/98	637.84	06/16/98	635.45	09/18/98	632.7	10/07/1999	634.13
MW-33	639.56	01/06/1997	635.27	03/18/1997	635.12	06/17/1997	632.11	03/23/98	635.65	06/16/98	633.39	09/18/98	629.72	10/07/1999	630.82
MW-34	632.89	01/06/1997	629.82	03/18/1997	629.67	06/17/1997	628.26	03/23/98	630.15	06/16/98	629.16	09/18/98	622.36	10/07/1999	622.47
MW-35D	631.82	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	03/23/98	629.22	06/16/98	629.22	09/18/98	624.62	10/07/1999	624.96
MW-36	631.79	01/06/1997	628.49	03/18/1997	629.33	06/17/1997	628.21	03/23/98	629.19	06/16/98	629.22	09/18/98	623.98	10/07/1999	624.22
MW-37	632.89	01/06/1997	630.41	03/18/1997	630.3	06/17/1997	Not Measured	03/23/98	630.38	06/16/98	630.38	N/A	Not Measured	10/07/1999	625.77
MW-38D	637.90	01/06/1997	634.2	03/18/1997	634.29	06/17/1997	Not Measured	03/23/98	635.39	06/16/98	635.39	09/18/98	630.61	10/07/1999	630.12
MW-39	659.54	01/06/1997	657.48	03/18/1997	657.76	06/17/1997	657.45	03/23/98	657.84	06/16/98	657.72	09/18/98	653.07	10/07/1999	655.56
MW-40	659.30	01/06/1997	655.66	03/18/1997	655.66	06/17/1997	655.52	03/23/98	655.85	06/16/98	655.16	09/18/98	651.08	10/07/1999	651.34
MW-41D	694.02	01/06/1997	687.92	03/18/1997	687.57	N/A	Not Measured	03/23/98	685.9	N/A	Not Measured	N/A	Not Measured	10/07/1999	685.21





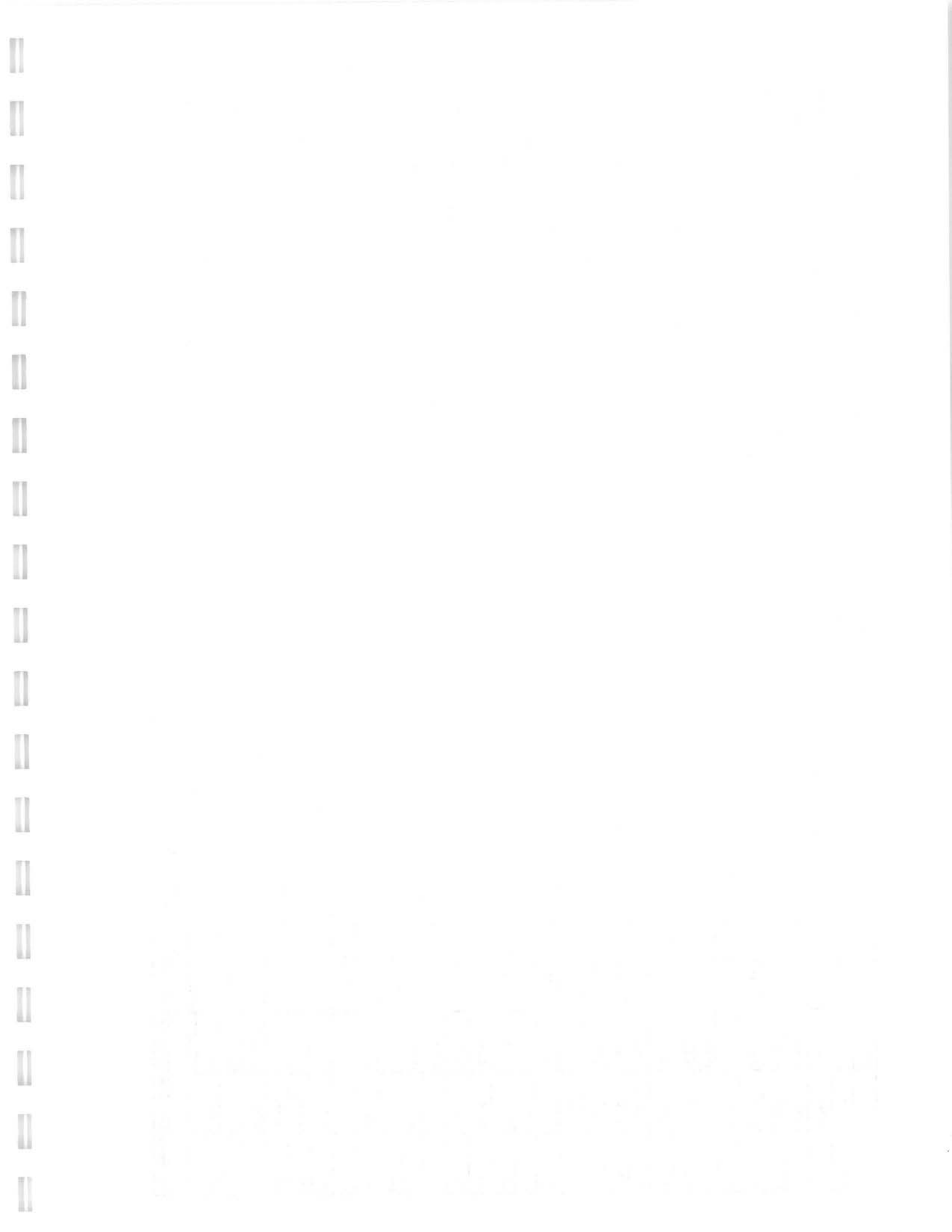






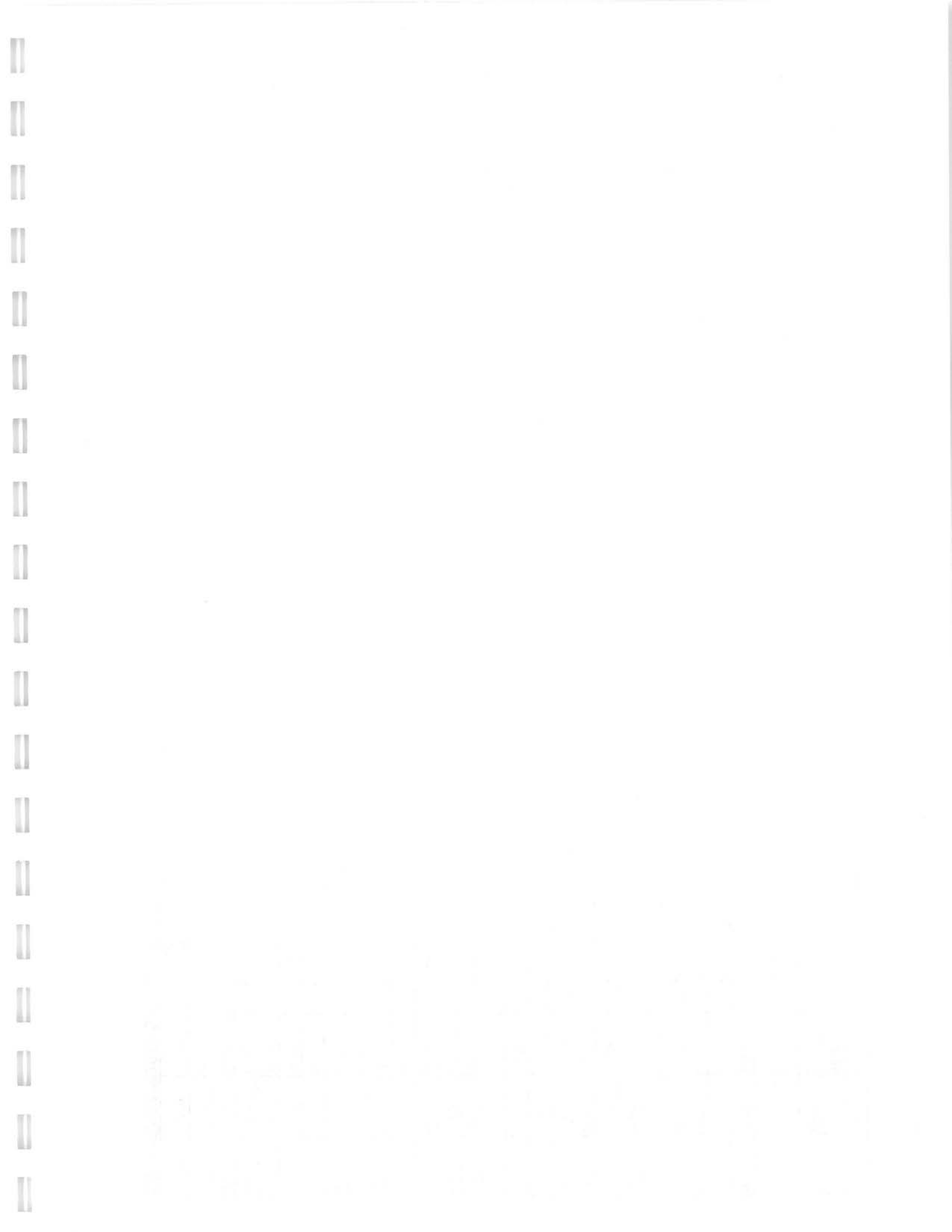
APPENDIX A  
GROUNDWATER ELEVATION DATA - 1995 THROUGH SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL,  
SENECA ARMY DEPOT ACTIVITY

Monitoring Well	Fourth Quarter 1999 (2)			First Quarter 2000			Third Quarter 2001			Second Quarter 2002				Historical Groundwater Elevation Data		
	Elevation at Top of Riser	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Well Depth (historic)	Saturated Thickness	Depth from Top of Riser (ft.)	Elevation of Water Level (ft.)	MAX	MIN	RANGE	
PT-10	681.52	10/27/1999	672.26	01/03/2000	674.68	NA	Not Measured	04/08/2002	46.36	41.09	5.27	676.25	676.90	671.02	5.88	
PT-11	658.22	10/27/1999	648.83	01/03/2000	652.86	08/27/2001	647.79	04/08/2002	19.55	14.77	4.78	653.44	654.03	647.79	6.24	
PT-12A	652.15	10/27/1999	644.55	01/03/2000	645.53	08/27/2001	642.26	04/08/2002	13.38	9.22	4.16	647.99	649.01	642.26	6.75	
PT-15	637.76	10/27/1999	DRY	01/03/2000	631.72	08/27/2001	627.38	04/09/2002	19.50	15.35	4.15	633.61	633.74	627.38	6.36	
PT-16	637.51	10/27/1999	630.87	01/03/2000	634.41	08/27/2001	629.83	04/09/2002	11.04	7.12	3.92	633.59	634.85	629.83	5.02	
PT-17	640.14	10/27/1999	632.24	01/03/2000	635.06	08/27/2001	629.05	04/09/2002	11.65	7.12	4.53	635.61	635.85	629.05	6.80	
PT-18	656.68	10/27/1999	648.45	01/03/2000	650.34	08/28/2001	646.3	04/09/2002	11.70	6.84	4.86	651.82	652.28	646.30	5.98	
PT-19	645.26	10/27/1999	638.04	01/03/2000	641.32	08/27/2001	636.57	04/08/2002	11.70	8.71	2.99	642.27	643.09	636.57	6.52	
MW-20	647.28	10/27/1999	639.68	01/03/2000	640.52	08/27/2001	Dry	04/08/2002	11.80	5.81	5.99	641.29	642.34	637.41	4.93	
MW-21A	647.73	10/27/1999	639.59	01/03/2000	640.65	08/27/2001	637.22	04/08/2002	19.46	14.02	5.44	642.29	643.84	637.22	6.62	
MW-22	648.61	10/27/1999	639.96	01/03/2000	641.07	08/27/2001	637.51	04/08/2002	11.81	5.88	5.93	642.68	644.30	637.51	6.79	
PT-23	641.38	10/27/1999	633.82	01/03/2000	637.48	08/27/2001	632.35	04/08/2002	12.08	8.20	3.88	637.7	638.14	632.35	5.79	
PT-24	636.40	10/27/1999	630.28	01/03/2000	631.52	08/27/2001	627.99	04/08/2002	11.88	7.39	4.49	631.91	632.76	627.99	4.77	
PT-25	637.09	10/27/1999	628.78	01/03/2000	631.83	08/27/2001	Dry	04/08/2002	12.03	8.13	3.9	633.19	633.51	625.74	7.77	
PT-26	614.64	10/27/1999	602.48	01/03/2000	607.76	NA	Not Measured	NA	14.00	NA	Not Measured	611.60	601.53	10.07		
MW-27	639.32	10/27/1999	632.68	01/03/2000	633.86	08/27/2001	630.09	04/08/2002	10.54	5.66	4.88	634.44	634.88	630.09	4.79	
MW-28	637.21	10/27/1999	630.85	01/03/2000	632.05	08/27/2001	628.71	04/08/2002	10.39	5.61	4.78	632.43	632.57	628.71	3.86	
MW-29	637.31	10/27/1999	629.31	01/03/2000	630.97	08/27/2001	Dry	04/08/2002	10.54	5.33	5.21	632.1	632.10	627.30	4.80	
MW-30	640.32	10/27/1999	631.02	01/03/2000	633.56	08/27/2001	Dry	04/08/2002	10.52	6.25	4.27	636.05	636.38	629.88	6.50	
MW-31	636.70	10/27/1999	629.41	01/03/2000	632.22	08/27/2001	Dry	04/08/2002	10.35	7.41	2.94	633.76	634.22	627.02	7.20	
MW-32	641.68	10/27/1999	633.38	01/03/2000	635.52	08/27/2001	Dry	04/08/2002	10.37	6.13	4.24	637.44	637.84	632.70	5.14	
MW-33	639.56	10/27/1999	630.06	01/03/2000	633.52	08/27/2001	Dry	04/08/2002	10.39	6.13	4.26	635.3	635.65	629.72	5.93	
MW-34	632.89	10/27/1999	623.79	01/03/2000	628.25	NA	Not Measured	04/08/2002	18.15	14.30	3.85	629.04	630.15	622.36	7.79	
MW-35D	631.82	10/27/1999	626.62	01/03/2000	629.06	NA	Not Measured	04/08/2002	56.64	53.72	2.92	628.9	629.44	624.62	4.82	
MW-36	631.79	10/27/1999	626.16	01/03/2000	628.85	08/28/2001	622.26	04/08/2002	16.58	12.97	3.61	628.18	629.47	622.26	7.21	
MW-37	632.89	10/27/1999	626.42	01/03/2000	629.49	NA	Not Measured	04/08/2002	13.62	10.57	3.05	629.84	630.65	625.77	4.88	
MW-38D	637.90	10/27/1999	630.62	01/03/2000	634.12	NA	Not Measured	04/08/2002	32.24	28.63	3.61	634.29	635.39	628.99	6.40	
MW-39	659.54	10/27/1999	655.8	01/03/2000	657.6	08/27/2001	650.47	04/08/2002	11.89	10.02	1.87	657.67	657.84	650.47	7.37	
MW-40	659.30	10/27/1999	652.68	01/03/2000	655.22	08/28/2001	650.16	04/08/2002	14.71	10.95	3.76	655.54	655.85	650.16	5.69	
MW-41D	694.02	N/A	Not Measured	01/03/2000	686.78	NA	Not Measured	NA	47.02	NA	Not Measured	687.92	685.21	2.71		



APPENDIX A  
GROUNDWATER ELEVATION DATA - 1995 THROUGH SECOND QUARTER 2002  
GROUNDWATER MONITORING - ASH LANDFILL  
SENECA ARMY DEPOT ACTIVITY

Monitoring Well	Elevation at Top of Risor	Fourth Quarter 1999 (2)		First Quarter 2000		Third Quarter 2001		Second Quarter 2002					Historical Groundwater Elevation Data		
		Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Elevation of Water Level (ft.)	Date	Well Depth (historic)	Saturated Thickness	Depth from Top of Risor (ft.)	Elevation of Water Level (ft.)	MAX	MIN	RANGE
MW-42D	683.04	10/27/1999	673.26	01/03/2000	679.32	N/A	Not Measured	04/08/2002	47.38	44.85	2.53	680.51	680.67	671.39	9.28
MW-43	657.73	10/27/1999	651.87	01/03/2000	654.89	N/A	Not Measured	04/08/2002	5.80	2.88	2.92	654.81	655.13	650.73	4.40
MW-44A	653.85	10/27/1999	643.77	01/03/2000	648.35	08/27/2001	642.97	04/08/2002	12.48	8.46	4.02	649.83	650.37	642.42	7.95
MW-45	650.90	10/27/1999	645.91	01/03/2000	648.12	08/27/2001	Not Measured	04/08/2002	8.34	5.55	2.79	648.11	648.12	643.12	5.00
MW-46	650.41	10/27/1999	643.06	01/03/2000	646.23	08/27/2001	641.12	04/08/2002	11.45	8.11	3.34	647.07	647.53	641.12	6.41
MW-47	628.06	10/27/1999	622.64	01/03/2000	624.74	08/28/2001	619.91	04/08/2002	8.56	5.65	2.91	625.15	625.76	619.88	5.88
MW-48	648.32	10/27/1999	641.62	01/03/2000	645	08/27/2001	639.94	04/08/2002	11.50	8.60	2.90	645.42	645.46	639.94	5.52
MW-49D	650.50	10/27/1999	643.18	01/03/2000	646.4	N/A	Not Measured	04/08/2002	37.54	34.24	3.30	647.2	647.62	641.76	5.86
MW-50D	649.88	10/27/1999	633.88	01/03/2000	643.98	N/A	Not Measured	04/08/2002	59.66	56.36	3.30	646.58	647.40	633.88	13.52
MW-51D	628.24	10/27/1999	622.64	01/03/2000	624.76	N/A	Not Measured	04/08/2002	36.87	33.07	3.80	624.44	628.24	620.49	7.75
MW-52D	626.35	10/27/1999	621.25	01/03/2000	624.17	N/A	Not Measured	04/08/2002	59.36	56.79	2.57	623.78	624.17	618.67	5.50
MW-53	639.41	10/27/1999	630.69	01/03/2000	632.71	08/27/2001	629.51	04/08/2002	10.35	4.78	5.57	633.84	633.84	629.46	4.38
MW-54D	639.11	10/27/1999	630.53	01/03/2000	632.37	N/A	Not Measured	04/08/2002	34.99	29.31	5.68	633.43	633.43	628.71	4.72
MW-55D	639.16	10/27/1999	627.96	01/03/2000	632.48	N/A	Not Measured	04/08/2002	58.18	52.43	5.75	633.41	633.41	627.96	5.45
MW-56	630.51	10/27/1999	626.09	01/03/2000	627.05	08/28/2001	623.95	04/10/2002	6.88	3.13	3.75	626.76	627.56	621.66	5.90
MW-57D	629.82	10/27/1999	626.3	01/03/2000	627.52	N/A	Not Measured	04/08/2002	35.09	33.13	1.96	627.86	628.13	621.76	6.37
MW-58D	629.69	10/27/1999	626.36	01/03/2000	627.63	N/A	Not Measured	04/08/2002	57.29	55.67	1.62	628.07	628.37	624.79	3.58
MW-59	656.83	10/27/1999	652.64	01/03/2000	654.67	08/27/2001	649.85	04/08/2002	9.10	6.89	2.21	654.62	654.93	649.85	5.08
MW-60	660.15	10/27/1999	656.29	01/03/2000	657.99	08/27/2001	652.23	04/08/2002	9.50	7.40	2.10	658.05	658.20	652.23	5.97
MW-T-1	637.24	N/A	Not Measured	N/A	Not Measured	08/27/2001	629.06	04/09/2002	9.75	4.98	4.77	632.47	632.47	629.06	3.41
MW-T-2	637.19	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	04/08/2002	9.55	4.63	4.92	632.27	632.27	629.06	3.41
MW-T-3	637.31	N/A	Not Measured	N/A	Not Measured	08/27/2001	628.99	04/09/2002	10.00	4.89	5.11	633.2	632.20	628.99	3.21
MW-T-4	637.68	N/A	Not Measured	N/A	Not Measured	08/27/2001	627.28	04/09/2002	12.43	7.22	5.21	632.47	632.47	627.28	5.19
MW-T-5	637.72	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	04/08/2002	11.95	6.68	5.27	632.45	632.45	627.24	5.14
MW-T-6	637.59	N/A	Not Measured	N/A	Not Measured	08/27/2001	627.24	04/09/2002	12.28	7.07	5.21	632.38	632.38	627.24	5.14
MW-T-7	638.34	N/A	Not Measured	N/A	Not Measured	08/27/2001	626.58	04/09/2002	13.97	8.50	5.47	632.87	632.87	626.58	6.29
MW-T-8	638.40	N/A	Not Measured	N/A	Not Measured	N/A	Not Measured	04/08/2002	12.55	6.73	5.82	632.58	632.58	626.04	6.38
MW-T-9	638.08	N/A	Not Measured	N/A	Not Measured	08/27/2001	626.04	04/09/2002	14.14	8.48	5.66	632.42	632.42	626.04	6.38
MW-T-10	636.07	N/A	Not Measured	N/A	Not Measured	08/27/2001	629.55	04/09/2002	8.95	5.11	3.84	632.23	632.23	629.55	2.68
MW-T-11	635.90	N/A	Not Measured	N/A	Not Measured	08/28/2001	626.92	04/10/2002	9.95	7.00	2.95	632.95	632.95	626.92	6.03



A2. FIELD DATA SHEETS



GROUNDWATER MONITORING - ASH LANDFILL  
 1st. QUARTER 2002 EVENT (OPTIONAL TASK 5)  
 PARAMETERS AND SAMPLE NUMBERS

Location	Sample ID	QC Code	Well Depth (TOC)	Pump Intake	Field Parameters							Lab Parameters		Total	
					pH	Spec Cond	Eh	DO	Turbidity	Sulfide	Ferrous FE	VOC 524.2	VOC 351P 3560		
BNS	4/10 ARD2168	1100 SA	NA	NA									X		1
FHD	4/10 ARD2169	1120 SA	NA	NA									X		1
FH-S	4/10 ARD2170	1110 SA	NA	NA									X		1
MW-28	4/8 ARD2171	1530 SA	10.39	4.73	X	X	X	X	X	X	X	X		X	1
MW-30 (PT-15)	4/10 ARD2172	1245 SA	10.52	4.73	X	X	X	X	X	X	X	X		X	1
MW-56 (MW-36)	4/10 ARD2173	1600 SA	6.88	4.47	X	X	X	X	X	X	X	X		X	1
PT-24	4/9 ARD2174	0930 SA	11.88	4.47	X	X	X	X	X	X	X	X		X	1
MWT-1	4/9/02 TR2081	1320 SA	9.75	4.77	X	X	X	X	X	X	X	X		X	1
MWT-3	4/4 TR2082	1435 SA	10	5.11	X	X	X	X	X	X	X	X		X	1
MWT-4	4/9 TR2083	1130 SA	12.28	5.11	X	X	X	X	X	X	X	X		X	1
MWT-6	4/9 TR2084	1220 SA	12.42	5.41	X	X	X	X	X	X	X	X		X	1
MWT-7	4/9 TR2085	1645 SA	13.97	5.47	X	X	X	X	X	X	X	X		X	1
MWT-9	4/9 TR2086	1745 SA	14.08	5.66	X	X	X	X	X	X	X	X		X	1
MWT-10	4/9 TR2087	1530 SA	8.95	5.84	X	X	X	X	X	X	X	X		X	1
MWT-11	4/10 TR2088	1045 SA	9.95	7.45	X	X	X	X	X	X	X	X		X	1
Duplicate (MW-T6)	4/9 TR2089	1210 DU												X	1
Duplicate (2) (PT-24)	4/9 ARD2175	1000 DU												X	1
MS (MW-T7)	4/9 TR20##MS	1645 MS												X	1
MSD (MW-T7)	4/9 TR20##MSD	1645 MSD												X	1
Rinsate (MW-T9)	4/10 TR0035	1605 RB												X	1
(2) - Duplicate and Rinse Blank Associated with VOC/CLP sample															
Trip/ Blank	4/10 TR0036	0700 TB												X	1
LIMS # for MRD samples - 6463															
MRD (MW-T6)	4/9/02 TR2084MRD	1220 SA												X	1

\* Set pump intake at midpoint of saturated column or 1.25 feet off the bottom of the well, to allow a minimum distance of 1.25 feet between intake and POW

*Depend clean*

*Holding time for VOC: 7 days*





GROUNDWATER EVALUATION AND WELL MONITORING  
 GROUNDWATER MONITORING - ASH LANDFILL  
 DELIVERY ORDER #006  
 SENECA ARMY DEPOT ACTIVITY

December, 2001

Monitoring Well (1)	Elevation at Top of Riser (rel. TOC) (2)	Well Depth (rel. TOC historic)	Date	Depth from Top of Riser (ft.)	Comments/ well condition
BN-S	NA	NA			Dry??
FH-D	NA	NA			
FH-S	NA	NA			
PT-10	681.52	463.9	8 Apr 2002	5.27	Turbid (Y)
PT-11	658.22	19.55	8 Apr 2002	4.78	Turbid (Y)
PT-12A	652.15	13.38	8 Apr 2002	4.16	Turbid (Y)
PT-15	637.76	19.5	8 Apr 2002	4.15	Turbid (Y)
PT-16	637.51	11.04		3.92	
PT-17	640.14	11.65		4.53 (M)	4.97 (M)
PT-18	656.68	11.7		4.86	
PT-19	645.26	11.7	8 Apr 2002	2.99	Turbid (Y)
MW-20 (PT-20)	647.28	11.8		5.99	(PT-20 on Map, No MW-20 shown)
MW-21A	647.73	19.46		5.94	(Y)
MW-22/PT-22	648.61	11.81		5.93	(Y)
PT-23	641.58	12.8		3.83	
PT-24	636.40	11.88		4.49	
PT-25	637.09	12.03		3.90	No Tubing
PT-26	614.64	14			
MW-27	639.32	10.54		4.33	
MW-28	637.21	10.39		4.46	
MW-29	637.31	10.54		5.21	
MW-30	640.32	10.52	8 Apr 2002	4.78	Turbid (Y)
MW-31	636.70	10.34	8 Apr 2002	2.94	Turbid (Y)
MW-32/PT-32	641.68	10.37		4.24	Yellow bacteria "Goo" (Y) Turbid (M)
MW-33	639.56	10.36		4.26	
MW-34	632.89	18.15	8 Apr 2002	3.85 (M)	3.24 (PT-34) Turbid (M)
MW-35D	631.82	56.64		2.92	(with sand MW-35)
MW-36	631.79	16.58		3.61	
MW-37	632.89	13.62		3.65	(standing H <sub>2</sub> O @ well)
MW-38D	637.90	32.24		3.61	
MW-39	659.54	11.89		1.87	
MW-40	659.30	14.71		3.76	
MW-41D	694.02	47.02			
MW-42D	683.04	47.38		2.53	
MW-43	657.73	7.47		2.92	
MW-44A	653.85	12.48		4.02	
MW-45	650.90	8.34		3.19 (M)	3.19 (M)
MW-46	650.41	11.45		3.34	Turbid
MW-47	628.06	8.56		2.91	

2.5 gals in (mark pad) (form US)



GROUNDWATER ELEVATION AND WELL MONITORING  
 DELIVERY ORDER #006  
 SENECA ARMY DEPOT ACTIVITY

December, 2001

Monitoring Well (1)	Elevation at Top of Risers (2)	Well Depth (rel. TOC historic)	Date	Depth from Top of Risers (ft.)	Comments/ well condition
MW-48	648.32	11.5		2.10 (M) 8.1 (M) (Y)	
MW-49D	650.50	37.54		3.30 (M)	
MW-50D	649.88	59.66		3.30 (Y)	
MW-51D	628.24	36.87		3.08	
MW-52D	626.35	59.36		2.57	
MW-53	639.41	10.35		5.57 (M) 5.92 (M) (Y)	
MW-54D	639.11	34.99		5.09 (Y)	
MW-55D	639.16	58.18		5.75 (Y)	
MW-56	630.51	6.88		3.43	
MW-57D	629.82	35.09		1.96	
MW-58D	629.69	57.29		1.62	
MW-59	656.83	9.1	9/16/2002	2.21	Turns
MW-60	660.15	9.5	9/16/2002	2.10	Turns
MWT-1	637.24	10.13		4.77	
MWT-2	637.19	9.7		4.92	
MWT-3	637.31	10.13		5.11	
MWT-4	637.68	12.43		5.11	
MWT-5	637.72	12.1		5.27	
MWT-6	637.59	12.65		5.21	
MWT-7	638.34	13.64		5.47	
MWT-8	638.40	12.8		5.82	
MWT-9	638.08	14.14		5.66	
MWT-10	636.07	9		3.84	
MWT-11	635.90	9.94		2.2	





# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #:

SAMPLING ORDER	PRESERVATIVES	BOTTLES	COUNT/ VOLUME	TYPE	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
----------------	---------------	---------	---------------	------	---------------	------	------------------

1	HCL	3/ 40 ml	3/ 40 ml	VOA			
2	H <sub>2</sub> SO <sub>4</sub>	2/ 40 ml	2/ 40 ml	VOA			
3	HCL	3/ 40 ml	3/ 40 ml	VOA			
4	HCL	1 x 500 ml	1 x 500 ml	HDPE			
7	HCL	1 x 1L	1 x 1L	HDPE			
5	Field Analysis						
6	Field Analysis						
8	HCL	2/ 40 ml	2/ 40 ml	VOA			
9							
10							

COMMENTS: (QA/QC?)

ADDITIONAL INFORMATION:

# SAMPLING RECORD - GROUNDWATER

WELL #: T-3      CONSULTANT: PARSONS ES      SENECA ARMY DEPOT ACTIVITY

PROJECT: QUARTERLY SAMPLING - ASH LANDFILL      LOCATION: ROMULUS, NY

DATE: 4/9/02      INSPECTORS:      PUMP #:      SAMPLE ID #: TR2082

WEATHER / FIELD CONDITIONS CHECKLIST		WEATHER / FIELD CONDITIONS CHECKLIST		WEATHER / FIELD CONDITIONS CHECKLIST		WEATHER / FIELD CONDITIONS CHECKLIST	
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	HUMIDITY (GEN)	REL. WIND	VELOCITY (APPRX)	DIRECTION	SURFACE CONDITIONS
1400	50°	Over	-	0-5	SW	wet	

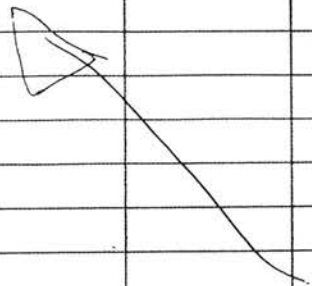
WELL VOLUME CALCULATION FACTORS		WELL VOLUME CALCULATION FACTORS	
DIAMETER (INCHES)	GALLONS / FOOT	LITERS / FOOT	ONE WELL VOLUME (GAL) - (POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)
0.25	0.026	0.010	4.89 x 1.63 = 797 x 3 = 239
1	0.041	0.015	
2	0.063	0.021	
3	0.087	0.028	
4	0.113	0.036	
6	0.170	0.054	

HISTORIC DATA		DATA COLLECTED AT WELL SITE		RADIATION SCREENING DATA	
DEPTH TO POINT OF WELL (TUC)	DEPTH TO STATIC WATER LEVEL (TUC)	DEPTH TO STABILIZED WATER LEVEL (TUC)	DEPTH TO PUMP INTAKE (TUC)	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)
10.00	5.11	5.30			

## MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
1405	5.25	380	1.5	0.00	7.50	7.90	7.36	188	4.56
1410	5.30	380	1.0	0.00	7.31	7.49	7.38	176	3.87
1415	5.30	380	1.5	0.00	7.21	7.20	7.40	166	2.21
1420	5.30	380	2.0	0.00	7.20	7.43	6.58	152	1.46

1435



TR2082



# SAMPLING RECORD - GROUNDWATER

**SENeca ARMY DEPOT ACTIVITY**      **CONSULTANT: PARSONS ES**      **WELL #:**

SAMPLING ORDER	PRESERVATIVES	BOTTLES		SAMPLE NUMBER	TIME	CHECKED BY/ DATE
		COUNT	VOLUME			
1	HCL	3/40 ml	VOA			
2	H <sub>2</sub> SO <sub>4</sub>	2/40 ml	VOA			
3	HCL	3/40 ml	VOA			
4		1 x 500 ml	HDPE			
7		1 x 1L	HDPE			
5	Field Analysis	0.27 mg/L				
6	Field Analysis	0.021 mg/L				
8		2/40 ml	VOA			
9						
10						

COMMENTS: (QA/QC?)

ADDITIONAL INFORMATION:



# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY      CONSULTANT: PARSONS ES      WELL #: MW-19

PROJECT: QUARTERLY SAMPLING - ASH LANDFILL      LOCATION: ROMULUS, NY      DATE: 11/9/02      INSPECTORS: SM SB

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	HUMIDITY (GEN)	REL. HUMIDITY (APPRX)	WIND (FROM)	VELOCITY (APPRX)	DIRECTION (FROM)	SURFACE CONDITIONS	MONITORING -	
									INSTRUMENT	DETECTOR
1700	50°	Rain	-	0-5	S	Wet			OVM-580	PID

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47
LITERS/FOOT:	0.010	0.121	0.617	1.389	2.470	5.504

ONE WELL VOLUME (GAL) = (ROW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT) X WELL DEPTH (FT) = 13.08 X 3 = 41.1

HISTORIC DATA		DATA COLLECTED AT		RADIATION SCREENING DATA	
DEPTH TO POINT OF WELL (TUC)	DEPTH TO TOP OF SCREEN (TUC)	DEPTH TO STATIC WATER LEVEL (TUC)	DEPTH TO STABILIZED WATER LEVEL (TUC)	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)
14.08	5.66	13.08	1700		

## MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL (min)	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
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17:05	6.16	380	5	1.81	8.2	571	7.52	89	45.4
17:15	6.16	380	1.5	0.00	8.1	536	7.45	71	19.4
17:20	6.10	380	2.0	0.00	8.0	515	7.46	8	15.3
17:25	6.10	380	2.5	0.00	8.0	511	7.45	5	15.0
17:30	6.10	380	3.0	0.00	8.0	497	7.47	0	11.0
17:35	6.10	380	3.5	0.00	8.1	483	7.48	5	8.05
17:40	6.10	380	4.0	0.00	8.0	479	7.48	6	7.14
17:45	6.10	380	4.5	0.00	8.1	469	7.50	9	6.46

Sample line 1745



TR2086

# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #:

SAMPLING ORDER	PRESERVATIVES	BOTTLES	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
		COUNT/ VOLUME	TYPE		

1	VOC-CIP (Low Level) or 524.2	HCL	3/40 ml	VOA		
2	DOC	H <sub>2</sub> SO <sub>4</sub>	2/40 ml	VOA		
3	Methane/Ethane/Ethene	HCL	3/40 ml	VOA		
4	Nitrate/Nitrogen 352.1		1 x 500 ml	HDPE		
7	Alkalinity/Sulfate/Chlorides		1 x 1L	HDPE		
5	Ferrous Iron	Field Analysis	0.08 mg/L			
6	Sulfide	Field Analysis	0.026 mg/L			
8	Hydrogen	4 deg. C	2/40 ml	VOA		
9						
10						

COMMENTS: (Q/A/QC?)

IDW INFORMATION:

# SAMPLING RECORD - GROUNDWATER

PROJECT: QUARTERLY SAMPLING - ASH LANDFILL  
 LOCATION: ROMULUS, NY  
 INSPECTORS: \_\_\_\_\_  
 DATE: 4/7/02  
 WELL #: MW-48

SENECA ARMY DEPOT ACTIVITY  
 CONSULTANT: PARSONS ES

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	HUMIDITY (GEN)	REL. WIND VELOCITY (APPRX)	WIND DIRECTION (FROM)	GROUND / SURFACE CONDITIONS
1501	40°	Rain	—	—	—	wet

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47
LITERS/FOOT:	0.010	0.151	0.617	1.389	2.473	5.204

ONE WELL VOLUME (GAL) = (PWP - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT) = 9.39 x 3 = 28.17

HISTORIC DATA

DEPTH TO POINT OF WELL (TUC)	DEPTH TO TOP OF SCREEN (TUC)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH
1039			

DATA COLLECTED AT WELL SITE

PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TUC)	DEPTH TO STABILIZED WATER LEVEL (TUC)	DEPTH TO PUMP INTAKE (TUC)	PUMPING START TIME
	4.78	5.61	9.39	1501

RADIATION SCREENING DATA

PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)
5.61	9.39

## MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL (min)	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC COND (umhos)	ORP (mV)	TURBIDITY (NTU)
15:05	5.61	380	5	5.77	8.4	701	6.9	746
15:10	5.61	380	10	4.90	7.9	680	6.87	744
15:15	5.61	380	15	4.48	7.4	690	7.00	240
15:20	5.61	380	20	4.12	7.2	690	7.11	930
15:25	5.61	380	25	4.05	7.0	697	7.14	229
15:30	5.61	380	30	4.05	7.0	699	7.16	228

Sample time 15:30  
Sample turb

# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #:

SAMPLING ORDER	PRESERVATIVES	BOTTLES	COUNT/ VOLUME	TYPE	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
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1	HCL	3/ 40 ml		VOA			
2	H <sub>2</sub> SO <sub>4</sub>	2/ 40 ml		VOA			
3	HCL	3/ 40 ml		VOA			
4	deg. C	1 x 500 ml		HDPE			
7	deg. C	1 x 1L		HDPE			
5	Field Analysis				20	@ 1345	
6	Field Analysis				676	@ 1609	
8	deg. C	2/ 40 ml		VOA			
9							
10							

COMMENTS: (Q/A/QC?)

IDW INFORMATION:



# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY      CONSULTANT: PARSONS ES      WELL #: PT-24

PROJECT: QUARTERLY SAMPLING - ASH LANDFILL      LOCATION: ROMULUS, NY      DATE: 4/9/02  
 INSPECTORS: BM+SB      PUMP #:      SAMPLE ID #: 2174

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL HUMIDITY (GEN)	WIND DIRECTION (APPRX)	SURFACE CONDITIONS	MONITORING
0845	50°	cloudy		0-5 South	wet	
						PID

WELL VOLUME CALCULATION FACTORS      ONE WELL VOLUME (GAL) = (ROW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47
LITERS/FOOT:	0.010	0.121	0.601	1.389	2.473	5.504

7.39 x .163 = 1.20 x 3 = 3.6 gal

HISTORIC DATA		DATA COLLECTED AT WELL SITE		RADIATION SCREENING DATA	
DEPTH TO POINT OF WELL (TUC)	DEPTH TO STATIC WATER LEVEL (TUC)	PID READING (OPENING WELL)	DEPTH TO PUMP INTAKE (TUC)	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)
11.88	4.75	Ø	10.5	Ø	0845
DEPTH TO TOP OF SCREEN (TUC)	DEPTH TO STABILIZED WATER LEVEL (TUC)		DEPTH TO PUMP		
7.8	4.75		10.5		

## MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
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900	4.75	380	1.0	0.00	7.8	6.70	6.41	219	3.66
905	4.75	380	1.5	0.00	7.1	6.50	6.80	190	2.65
910	4.75	380	2.0	0.00	7.0	6.47	7.07	170	2.31
915	4.75	380	2.5	0.00	6.9	6.45	7.07	157	2.14
920	4.75	380	3.0	0.00	6.9	6.43	7.10	148	2.16
925	4.75	380	3.5	0.00	6.8	6.42	7.16	136	1.11
930	4.75	380	4.0	0.00	6.8	6.41	7.20	129	1.05

Sample time 0930

Duplicate Sample time

2174 @ 0930 8260

2175 @ 10:00 8260

# SAMPLING RECORD - GROUNDWATER

**SENECA ARMY DEPOT ACTIVITY**

**CONSULTANT: PARSONS ES**

**WELL #:**

SAMPLING ORDER	PRESERVATIVES	# BOTTLES	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
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1	VOC-CLP(Low Level) or 524.2	HCL	3/40 ml	VOA	
2	DOC	H <sub>2</sub> SO <sub>4</sub>	2/40 ml	VOA	
3	Methane/Ethane/Ethene	HCL	3/40 ml	VOA	
4	Nitrate/Nitrogen 352.1		1 x 500 ml	HDPE	
7	Alkalinity/Sulfate/Chlorides		1 x 1L	HDPE	
5	Ferrous Iron	Field Analysis			
6	Sulfide	Field Analysis			
8	Hydrogen	deg. C	2/40 ml	VOA	
9					
10					

**COMMENTS: (QA/QC?)**

**IDW INFORMATION:**

# SAMPLING RECORD - GROUNDWATER

**SENECA ARMY DEPOT ACTIVITY**      **CONSULTANT: PARSONS ES**      **WELL #: T-4**

**PROJECT:** QUARTERLY SAMPLING - ASH LANDFILL      **LOCATION:** ROMULUS, NY

**INSPECTORS:** \_\_\_\_\_      **DATE:** 4/9/2004

**PUMP #:** \_\_\_\_\_      **MONITORING -** \_\_\_\_\_

**WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)**

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	DIRECTION (FROM)	SURFACE CONDITIONS
10:30	50°	Overcast	✓	5-15	SW	Wet

**WELL VOLUME CALCULATION FACTORS**

Diameter (Inches)	0.25	1	2	3	4	6
Gallons / Foot	0.0026	0.041	0.163	0.367	0.654	1.47
Liters / Foot	0.010	0.151	0.617	1.589	2.745	5.904

ONE WELL VOLUME (GAL) = (ROW - STABILIZED WATER LEVEL) x WELL DIAMETER FACTOR (GAL/FT) x WELL DEPTH (FT)

$113 \times 7.21 \times 1.175 \times 3 = 3.5 \text{ gal.}$

**HISTORIC DATA**

DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL SPEC. COND.
12.42					

**DATA COLLECTED AT WELL SITE**

RID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME
	5.24	5.25		10:30

**RADIATION SCREENING DATA**

PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)	PUMPING TIME
	5.25	10:30

**MONITORING DATA COLLECTED DURING PURGING OPERATIONS**

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
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**Sample Five 1130 TR 2003**

1040	5.75	380	5	7.75	8.7	9.88	7.20	9.28	6.16
1050	5.75	325	1.0	7.13	8.4	9.84	7.21	9.15	4.27
1100	5.75	325	1.5	6.95	8.4	9.88	7.21	9.00	7.47
1110	5.75	350	2.0	6.92	8.4	9.76	7.21	1.97	1.91
1115	5.75	350	2.5	6.91	8.4	9.75	7.21	1.97	1.50
1120	5.75	350	3.0	6.91	8.4	9.75	7.21	1.96	1.65
1125	5.75	350	3.5	6.90	8.4	9.74	7.22	1.96	1.55

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# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #:

SAMPLING ORDER	PRESERVATIVES	BOTTLES	SAMPLE NUMBER	TIME	CHECKED BY	DATE
		COUNT/ VOLUME	TYPE			

1	VOC-CLP(Low Level) or 524.2	HCL	3/ 40 ml	VOA		
2	DOC	H <sub>2</sub> SO <sub>4</sub>	2/ 40 ml	VOA		
3	Methane/Ethane/Ethene	HCL	3/ 40 ml	VOA		
4	Nitrate/Nitrogen 352.1		1 x 500 ml	HDPE		
5	Ferrous Iron	Field Analysis	OO			
6	Sulfide	Field Analysis				
8	Hydrogen	4 deg. C	2/ 40 ml	VOA		
9						
10						

COMMENTS: (QA/QC?)

IDW INFORMATION:



# SAMPLING RECORD - GROUNDWATER

WELL #: 7-6      CONSULTANT: PARSONS ES      SENECA ARMY DEPOT ACTIVITY

PROJECT: QUARTERLY SAMPLING - ASH LANDFILL      LOCATION: ROMULUS, NY

DATE: 4/9/2002      INSPECTORS: BMT/SB      PUMP #: -

SAMPLE ID #: TR2084      SURFACE: -      WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	HUMIDITY (GEN)	REL. WIND (FROM)	VELOCITY (APPRX) (0-360)	DIRECTION	SURFACE	MONITORING -	
								INSTRUMENT	DETECTOR
1130	50°	Over	-	-	-	SW	Wet	OVM-580	PID

WELL VOLUME CALCULATION FACTORS		ONE WELL VOLUME (GAL) = (P.W. - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)	
DIAMETER (INCHES):	0.25	2.21 x .63 = 1.175	= 3.5
GALLONS/FOOT:	0.0026		
LITERS/FOOT:	0.010		

HISTORIC DATA	DEPTH TO POINT OF WELL (FOOT)	SCREEN (FOOT) OR LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	DATA COLLECTED AT WELL SITE		RADIATION SCREENING DATA
					DEPTH TO STATIC WATER LEVEL (FOOT)	DEPTH TO STABILIZED WATER LEVEL (FOOT)	
	12.42						

## MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL (in/min)	PUMPING RATE (gallons)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
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115	5.65	350	0.50	0.00	8.7	614	7.66	-30	20.5
1150	5.65	380	1.00	0.00	8.4	549	7.80	-39	18.6
1155	5.45	390	1.50	0.00	8.3	526	7.87	-44	10.80
1200	5.65	390	2.00	0.00	8.3	516	7.89	-47	6.99
1205	5.65	380	2.50	0.00	8.3	504	7.94	-51	4.87
1210	5.65	380	3.00	0.00	8.4	493	8.00	-59	3.61
1215	5.65	380	3.50	0.00	8.4	483	8.03	-62	2.78

Sample line 12.20

Duplicate Recorded line 12.10



12:20	Sample	TR2084							
12:10	Dup	TR2089							
12:20	WRD	TR2084							

# SAMPLING RECORD - GROUNDWATER

SENeca ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #:

SAMPLING ORDER	PRESERVATIVES	BOTTLES	COUNT/ VOLUME	TYPE	SAMPLE NUMBER	TIME	CHECKED BY	DATE
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1	VOC-CLP(Low Level) or 524.2	HCL	3/ 40 ml	VOA				
2	DOC	H <sub>2</sub> SO <sub>4</sub>	2/ 40 ml	VOA				
3	Methane/Ethane/Ethene	HCL	3/ 40 ml	VOA				
4	Nitrate/Nitrogen 352.1		1 x 500 ml	HDPE				
7	Alkalinity/Sulfate/Chlorides		1 x 1L	HDPE				
5	Ferrous Iron	Field Analysis	0.03					
6	Sulfide	Field Analysis	0.000					
8	Hydrogen	deg C	2/ 40 ml	VOA				
9								
10								

COMMENTS: (Q/A/QC?)

IDW INFORMATION:



# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #:

SAMPLING ORDER	PRESERVATIVES	BOTTLES	COUNT/ VOLUME	TYPE	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
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1	HCL	3/ 40 ml	VOA				
2	H <sub>2</sub> SO <sub>4</sub>	2/ 40 ml	VOA				
3	HCL	3/ 40 ml	VOA				
4	4 deg. C	1 x 500 ml	HDPE				
7	4 deg. C	1 x 1L	HDPE				
5	Field Analysis	0.00					
6	Field Analysis	0.00					
8	4 deg. C	2/ 40 ml	VOA				
9							
10							

COMMENTS: (Q/A/QC?)

IDW INFORMATION:



# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

PROJECT: QUARTERLY SAMPLING ASH LANDFILL

LOCATION: ROMULUS, NY

DATE: 11/14/02

INSPECTORS: BM SB

PUMP #: 10

SAMPLE ID #: TR0087

## WEATHER / FIELD CONDITIONS CHECKLIST

(RECORD MAJOR CHANGES)

TIME (24 HR)	1500	TEMP (APPRX)	50°	WEATHER (APPRX)	Rain	REL. HUMIDITY (GEN)	-	WIND VELOCITY (APPRX) (0-360)	0-5 SW	SURFACE CONDITIONS	Wet	INSTRUMENT DETECTOR	OVM-580 PID
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DIAMETER (INCHES):	0.25	WELL VOLUME CALCULATION FACTORS	ONE WELL VOLUME (GAL) = (KPOW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)
GALLONS/FOOT:	0.0026	1	5114.163 = 832 x 3 = 249
LITERS/FOOT:	0.010	2	
	0.121	3	
	0.617	4	
	1.389	6	
	2.473		
	5.264		

HISTORIC DATA	8.95	DEPTH TO POINT OF WELL (TUC)	DEPTH TO TOP OF SCREEN (TUC)	WELL DEVELOPMENT (TURBIDITY)	WELL DEVELOPMENT (PH)	PUMP PRIOR TO SAMPLING (cps)	384	RADIATION SCREENING DATA	PUMP AFTER SAMPLING (cps)	4.0	DATA COLLECTED AT WELL SITE	DEPTH TO PUMP INTAKE (TUC)	7.95

## MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	PH	ORP (mV)	TURBIDITY (NTU)
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15:05	395	400	5	0.36	7.4	407	8.10	-180	18.3
15:10	395	400	1.1	0.00	7.2	405	8.31	-204	16.7
15:15	395	400	1.65	0.00	7.0	404	8.62	-233	15.7
15:20	395	400	2.67	0.00	7.0	406	8.71	-243	9.06
15:25	395	400	2.60	0.00	7.2	405	8.88	-267	5.23
15:30	395	400	3.10	0.00	7.2	405	8.86	-278	4.21

Sample time 1530 @ TR 0087

Sample time 1530 TR 0087

# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #:

SAMPLING ORDER	PRESERVATIVES	BOTTLES	SAMPLE NUMBER	TIME	CHECKED BY
		COUNT/ VOLUME	TYPE		DATE

1	VOC-CLP(Low Level) or 524.2	HCL	3/40 ml	VOA	
2	DOC	H <sub>2</sub> SO <sub>4</sub>	2/40 ml	VOA	
3	Methane/Ethane/Ethene	HCL	3/40 ml	VOA	
4	Nitrate/Nitrogen 352.1		1 x 500 ml	HDPE	
7	Alkalinity/Sulfate/Chlorides		1 x 1L	HDPE	
5	Ferrous Iron	Field Analysis	0.51 mg/L		
6	Sulfide	Field Analysis	0.028 mg/L		
8	Hydrogen	deg C	2/40 ml	VOA	
9					
10					

COMMENTS: (QA/QC?)

IDW INFORMATION:

# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #: MW17-7

PROJECT: QUARTERLY SAMPLING - ASH LANDFILL

LOCATION: ROMULUS, NY

DATE: 11/15/02  
INSPECTORS: SM, SJ

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	HUMIDITY (GEN)	REL. HUMIDITY (APPRX)	WIND VELOCITY (APPRX)	WIND DIRECTION (0-360)	SURFACE CONDITIONS	GROUND / SITE
1600								

WELL VOLUME CALCULATION FACTORS

DIAMETER (INCHES):	0.25	1	2	3	4	6
GALLONS / FOOT:	0.0026	0.041	0.163	0.367	0.654	1.47
LITERS/FOOT:	0.010	0.151	0.617	1.389	2.475	5.904

ONE WELL VOLUME (GAL) = (ROW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT) X 1.47  
 85 X 1.63 = 1.385 X 3 X 1.47

HISTORIC DATA

DEPTH TO POINT OF WELL (TUC)	DEPTH TO SCREEN (FT)	DEPTH TO STABILIZED WATER LEVEL (TUC)	DEPTH TO PUMP AFTER SAMPLING (FPS)
13.97	5.47	6.65	

DATA COLLECTED AT WELL SITE

PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TUC)	DEPTH TO PUMP INTAKE (TUC)	DEPTH TO PUMP START

RADIATION SCREENING DATA

PUMP PRIOR TO SAMPLING (CPS)	PUMP AFTER SAMPLING (CPS)

MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
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1605	6.65	400	1.0	1.43	8.2	803	7.47	166	14.17
1610	6.65	400	1.55	3.43	7.9	808	7.24	171	2.82
1615	6.75	380	2.0	3.09	8.0	814	7.18	178	1.01
1620	6.70	380	2.5	3.02	8.0	817	7.16	182	7.22
1625	6.70	380	3.0	3.03	8.1	818	7.15	186	2.18
1630	6.70	380	3.5	3.02	8.1	819	7.15	188	2.15
1635	6.70	380	4.0	3.06	8.0	819	7.14	191	2.17
1640	6.70	380	4.5	3.07	8.0	819	7.14	193	2.15
1645	6.70	380	5.0	3.11	8.0	820	7.14	197	2.13

TR2085 MS0	TR2085 MS	TR2085	Sample	Modify Spike	Modify Spike	Modify Spike
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# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #:

SAMPLING ORDER

PRESERVATIVES

BOTTLES

COUNT/VOLUME

TYPE

SAMPLE NUMBER

TIME

DATE

CHECKED BY:

1 VOC-CLP(Low Level) or 524.2 HCL 3/40 ml VOA

2 DOC H<sub>2</sub>SO<sub>4</sub> 2/40 ml VOA

3 Methane/Ethane/Ethene HCL 3/40 ml VOA

4 Nitrate/Nitrogen 352.1 HCL 1 x 500 ml HDPE

7 Alkalinity/Sulfate/Chlorides HCL 1 x 1L HDPE

5 Ferrous Iron Fidd Analysis 0.03 mg/L

6 Sulfide Fidd Analysis 0.04 mg/L

8 Hydrogen HCL 2/40 ml VOA

10

COMMENTS: (QA/QC?)

IDW INFORMATION:





# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #:

SAMPLING ORDER	PRESERVATIVES	BOTTLES	SAMPLE NUMBER	TIME	CHECKED BY
		COUNT/ VOLUME			DATE

1	VOC -CLP(Low Level) or 524.2	HCL	3/40 ml	VOA	
2	DOC	H <sub>2</sub> SO <sub>4</sub>	2/40 ml	VOA	
3	Methane/Ethane/Ethene	HCL	3/40 ml	VOA	
4	Nitrate/Nitrogen 352.1		1 x 500 ml	HDPE	
7	Alkalinity/Sulfate/Chlorides		1 x 1L	HDPE	
5	Ferrous Iron	Field Analysis	300		
6	Sulfide	Field Analysis	0.026		
8	Hydrogen	deg. C	2/40 ml	VOA	
9					
10					

COMMENTS: (QA/QC?)

IDW INFORMATION:

# SAMPLING RECORD - GROUNDWATER

SENeca ARMY DEPOT ACTIVITY      CONSULTANT: PARSONS ES      WELL #: MW-30

PROJECT: QUARTERLY SAMPLING - ASH LANDFILL      LOCATION: ROMULUS, NY      DATE: 8/10/02

INSPECTORS: SJS      PUMP #: 515      SAMPLE ID #: ARD 2172

WEATHER / FIELD CONDITIONS CHECKLIST		GROUND / SITE	
REL. HUMIDITY	WEATHER (APPRX)	WIND (FROM)	SURFACE CONDITIONS
REL. HUMIDITY (GEN)	WEATHER (APPRX)	WIND (FROM)	SURFACE CONDITIONS
REL. HUMIDITY (APPRX)	WEATHER (APPRX)	WIND (FROM)	SURFACE CONDITIONS
REL. HUMIDITY (APPRX)	WEATHER (APPRX)	WIND (FROM)	SURFACE CONDITIONS

WELL VOLUME CALCULATION FACTORS		ONE WELL VOLUME (GAL) - (FLOW - STABILIZED WATER LEVEL)	
DIA (INCHES)	DEPTH (FEET)	WELL DIA (INCHES)	DEPTH (FEET)
0.25	1	5.25	163
0.0026	0.041	0.85	73
0.0163	0.367	0.85	73
0.054	1.47	0.85	73
0.654	5.94	0.85	73
2.47	23.8	0.85	73
9.89	85.2	0.85	73
36.7	312	0.85	73
147	1245	0.85	73
594	5040	0.85	73
2.47	23.8	0.85	73
9.89	85.2	0.85	73
36.7	312	0.85	73
147	1245	0.85	73
594	5040	0.85	73

HISTORIC DATA		DATA COLLECTED AT WELL SITE		RADIATION SCREENING DATA	
DEPTH TO POINT OF WELL (TUC)	DEPTH TO STATIC WATER LEVEL (TUC)	DEPTH TO STABILIZED WATER LEVEL (TUC)	DEPTH TO PUMP INTAKE (TUC)	PUMP PRIOR TO SAMPLING (cps)	PUMP AFTER SAMPLING (cps)
10.52	4.27	4.27	4.27		

## MONITORING DATA COLLECTED DURING PURGING OPERATIONS

TIME (min)	WATER LEVEL (min)	PUMPING RATE (ml/min)	CUMULATIVE VOL (GALLONS)	DISSOLVED OXYGEN (mg/l)	TEMP (C)	SPEC COND (umhos)	pH	ORP (mV)	TURBIDITY (NTU)
12:25	4.62	400	1.0	5.04	7.2	2.50	7.04	204	31.2
12:28	4.62	380	1.5	4.84	6.4	2.24	7.49	195	19.3
12:33	4.62	380	2.0	4.53	6.5	2.19	7.51	179	12.5
12:35	4.62	380	2.5						
13:10	4.52	380	4.75	4.52	6.4	0.217	7.48	166	
13:15	4.52	380	8.95	4.87	6.5	0.715	7.46	168	3.59
13:20	4.52	380	5.75	5.88	6.8	0.212	7.42	167	3.01

Purging through flow cell with peristaltic pump  
Menschuk Pump Controller broke  
and will sample with boiler

Sample Time 12:45

ARD 2172

# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #: \_\_\_\_\_

SAMPLING ORDER	PRESERVATIVES	COUNT/ VOLUME	BOTTLES	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
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1	VOC-CLP(Low Level) or 524.2	HCL	3/ 40 ml	VOA		
2	DOC	H <sub>2</sub> SO <sub>4</sub>	2/ 40 ml	VOA		
3	Methane/Ethane/Ethene	HCL	3/ 40 ml	VOA		
4	Nitrate/Nitrogen 352.1		1 x 500 ml	HDPE		
7	Alkalinity/Sulfate/Chlorides		1 x 1L	HDPE		
5	Ferrous Iron	Field Analysis	60			
6	Sulfide	Field Analysis	60			
8	Hydrogen		2/ 40 ml	VOA		
9						
10						

COMMENTS: (QA/QC?)

IDW INFORMATION:





# SAMPLING RECORD - GROUNDWATER

**SENECA ARMY DEPOT ACTIVITY**

**CONSULTANT: PARSONS ES**

**WELL #:**

SAMPLING ORDER	PRESERVATIVES	BOTTLES	SAMPLE NUMBER	TIME	CHECKED BY	DATE
		COUNT/ VOLUME	TYPE			

1	VOC-CLP(Low Level) or 524.2	HCL	3/40 ml	VOA		
2	DOC	H <sub>2</sub> SO <sub>4</sub>	2/40 ml	VOA		
3	Methane/Ethane/Ethene	HCL	3/40 ml	VOA		
4	Nitrate/Nitrogen 352.1	deg C	1 x 500 ml	HDPE		
7	Alkalinity/Sulfate/Chlorides	deg C	1 x 1L	HDPE		
5	Ferrous Iron	Field Analysis	0.00			
6	Sulfide	Field Analysis	0.0			
8	Hydrogen	deg C	2/40 ml	VOA		
9						
10						

**COMMENTS: (QA/QC?)**

**IDW INFORMATION:**



# SAMPLING RECORD - GROUNDWATER

**SENECA ARMY DEPOT ACTIVITY**

**CONSULTANT: PARSONS ES**

**WELL #:**

SAMPLING ORDER	PRESERVATIVES	BOTTLES		SAMPLE NUMBER	TIME	CHECKED BY	DATE
		COUNT	VOLUME				

1	VOC -CLP(Low Level) or 5242	HCL	3/40 ml	VOA			
2	DOC	H <sub>2</sub> SO <sub>4</sub>	2/40 ml	VOA			
3	Methane/Ethane/Ethene	HCL	3/40 ml	VOA			
4	Nitrate/Nitrogen 352.1		1 x 500 ml	HDPE			
7	Alkalinity/Sulfate/Chlorides		1 x 1L	HDPE			
5	Ferrous Iron	Field Analysis					
6	Sulfide	Field Analysis					
8	Hydrogen		2/40 ml	VOA			
9							
10							

**COMMENTS: (QA/QC?)**

**IDW INFORMATION:**





# SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #:

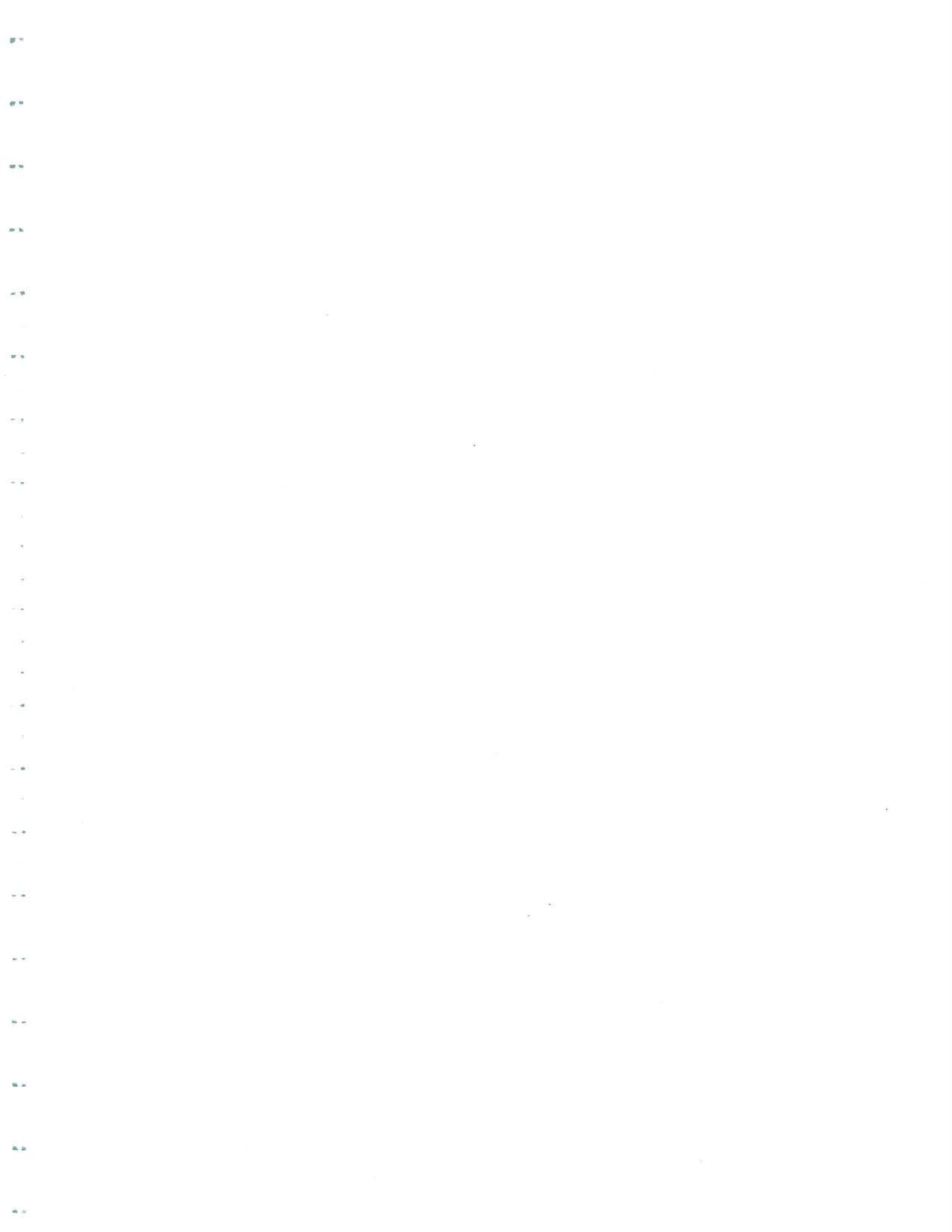
SAMPLING ORDER	PRESERVATIVES	BOTTLES	SAMPLE NUMBER	TIME	CHECKED BY/ DATE
		COUNT/ VOLUME	TYPE		

1	VOC-CLP(Low Level) or 524.2	HCL	3/ 40 ml	VOA	
2	DOC	H <sub>2</sub> SO <sub>4</sub>	2/ 40 ml	VOA	
3	Methane/Ethane/Ethene	HCL	3/ 40 ml	VOA	
4	Nitrate/Nitrogen 352.1		1 x 500 ml	HDPE	
7	Alkalinity/Sulfate/Chlorides		1 x 1L	HDPE	
5	Ferrous Iron	Field Analysis			
6	Sulfide	Field Analysis			
8	Hydrogen	Field Analysis	2/ 40 ml	VOA	
9					
10					

COMMENTS: (QA/QC?)

IDW INFORMATION:

A3. FIELD NOTES



ASH

Landfill Quarterly

4th Quarter 2001

Did not complete sampling due to low water

1/1/01

SEAN ASH LF

DRD

12/6/01

SEAN ASH LF

DRD

37

DRD, EMR at Slates Farmhouse  
to collect samples.

005 Collected Sample # ARD 2167  
from Kitchen cold water tap.  
FHD. We ran water for 1-2  
minutes and they have used  
the shower this morning. 594.2 Vol  
P.N. 7.53  
Cond - 0.650  
EK - 129  
DO - 4.15

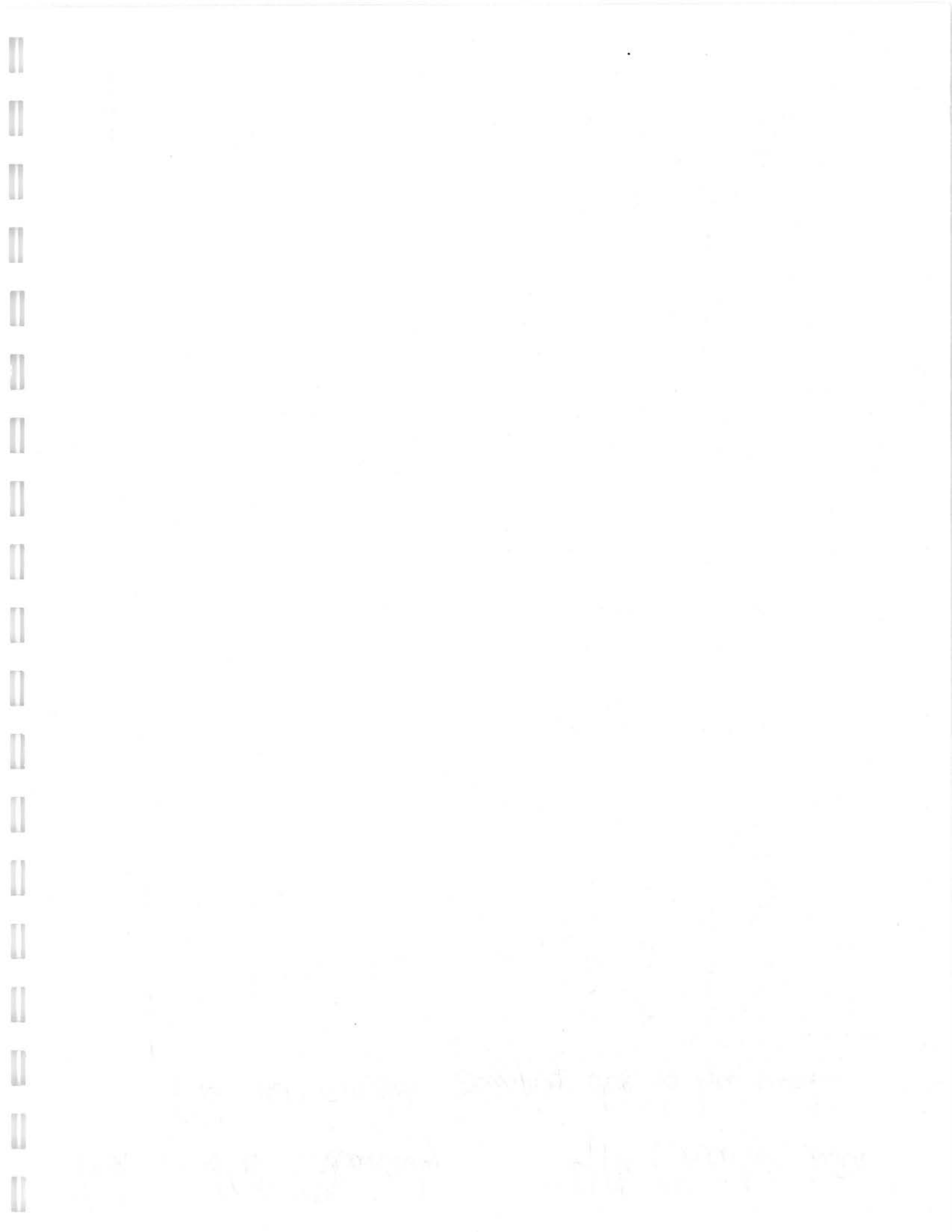
015 Collected Sample # 2170 from  
SE corner basement tap. FH-S  
We ran 10 gallons of water  
from tap first. 594.2 Vol analysis  
P.N. 7.34  
Cond. 0.730  
EK - ~~129~~ - 81  
DO - 4.44

025 Checked BU-S. Hand dug well east  
of house Only about 0.1' of water.  
Not enough to collect a sample.

1155 DRD, EMR at MW T-9. DTW - 11.91'  
So. state at 1308' (1' from bottom)  
200 Controller malfunctioning. We will  
do drain inventory.

1 Liquid 55 gal drums  
2 Seal cuttings 55 gal. drums  
Liquid drums are (4) surge water, (1)  
chemical/calibration. liquids, (1) decon  
condensate

345 DRD called in to Cliff. Cliff  
said we will not complete  
this sampling round due  
to low water cond. tions and  
equipment troubles.  
1400 DRD, EMR to ASH LF. Removed  
pump from MW T-9.  
1430 DRD, EMR packing up equipment  
to send back tonight.  
We will dump samples collected  
thus far.

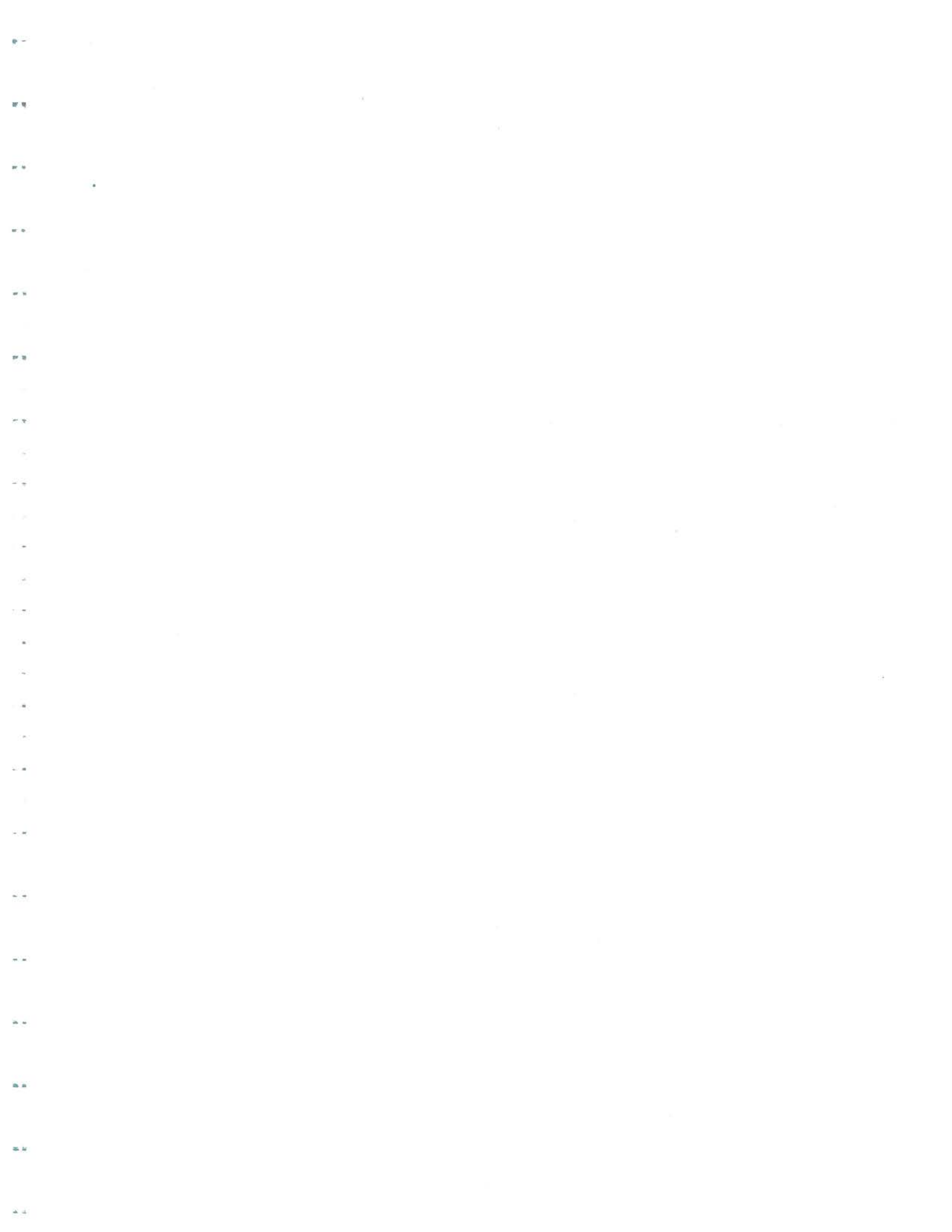




**SAMPLE DATA SUMMARY PACKAGE**  
**FOR 8260LW**

**Severn Trent Laboratories, Inc.**







ARD2171

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483241

Matrix: (soil/water) WATER

Lab File ID: 483241

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/15/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

1.0	U	75-71-8	Dichlorodifluoromethane
1.0	U	74-87-3	Chloromethane
1.0	U	75-01-4	Vinyl Chloride
1.0	U	74-83-9	Bromomethane
1.0	U	75-00-3	Chloroethane
1.0	U	75-69-4	Trichlorofluoromethane
1.0	U	107-02-8	Acrolein
5.0	U	76-13-1	Freon TF
1.0	U	75-35-4	1,1-Dichloroethene
1.0	U	67-64-1	Acetone
5.0	U	74-88-4	Methyl Iodide
1.0	U	75-15-0	Carbon Disulfide
1.0	U	107-05-1	Allyl Chloride
1.0	U	75-09-2	Methylene Chloride
1.0	U	107-13-1	Acrylonitrile
1.0	U	156-60-5	trans-1,2-Dichloroethene
1.0	U	540-59-0	1,2-Dichloroethene (total)
1.0	U	1634-04-4	Methyl-t-Butyl Ether
1.0	U	75-34-3	1,1-Dichloroethane
1.0	U	108-05-4	Vinyl Acetate
1.0	U	126-99-8	Chloroprene
1.0	U	156-59-2	cis-1,2-Dichloroethene
12	U	78-93-3	2-Butanone
5.0	U	107-12-0	Propionitrile
4.0	U	126-98-7	Methacrylonitrile
1.0	U	74-97-5	Bromochloromethane
1.0	U	109-99-9	Tetrahydrofuran
14	U	67-66-3	Chloroform
1.0	U	71-55-6	1,1,1-Trichloroethane
1.0	U	56-23-5	Carbon Tetrachloride
1.0	U	78-83-1	Isobutyl Alcohol
50	U	71-43-2	Benzene
1.0	U	107-06-2	1,2-Dichloroethane

ARD2171

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483241

Matrix: (soil/water) WATER

Lab File ID: 483241

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/15/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

16	79-01-6	Trichloroethene
1.0	78-87-5	1,2-Dichloropropane
1.0	80-62-6	Methyl Methacrylate
1.0	74-95-3	Dibromomethane
50	123-91-1	1,4-Dioxane
1.0	75-27-4	Bromodichloromethane
1.0	110-75-8	2-Chloroethyl Vinyl Ether
1.0	10061-01-5	cis-1,3-Dichloropropene
1.0	108-10-1	4-Methyl-2-pentanone
5.0	108-88-3	Toluene
1.0	10061-02-6	trans-1,3-Dichloropropene
1.0	97-63-2	Ethyl Methacrylate
1.0	79-00-5	1,1,2-Trichloroethane
1.0	127-18-4	Tetrachloroethene
5.0	591-78-6	2-Hexanone
1.0	124-48-1	Dibromochloromethane
1.0	106-93-4	1,2-Dibromoethane
1.0	108-90-7	Chlorobenzene
1.0	630-20-6	1,1,1,2-Tetrachloroethane
1.0	100-41-4	Ethylbenzene
1.0	1330-20-7	Xylene (m,p)
1.0	1330-20-7	Xylene (total)
1.0	95-47-6	Xylene (o)
1.0	100-42-5	Styrene
1.0	75-25-2	Bromoforn
1.0	98-82-8	Isopropylbenzene
1.0	1476-11-5	cis-1,4-Dichloro-2-butene
1.0	79-34-5	1,1,2,2-Tetrachloroethane
1.0	96-18-4	1,2,3-Trichloropropane
1.0	110-57-6	trans-1,4-Dichloro-2-butene
1.0	541-73-1	1,3-Dichlorobenzene
1.0	106-46-7	1,4-Dichlorobenzene
1.0	95-50-1	1,2-Dichlorobenzene

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: STL BURLINGTON

Contract: 98011

ARD2171

Lab Code: STLVT

Case No.: 98011

SDG No.: 87428

Matrix: (soil/water) WATER

Lab Sample ID: 483241

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

Lab File ID: 483241

Level: (low/med) LOW

Date Received: 04/11/02

& Moisture: not dec.

Date Analyzed: 04/15/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

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

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

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

96-12-8	1,2-Dibromo-3-Chloropropane	1.0 U
120-82-1	1,2,4-Trichlorobenzene	1.0 U
87-68-3	Hexachlorobutadiene	1.0 U
91-20-3	Naphthalene	1.0 U
594-20-7	2,2-Dichloropropane	1.0 U
563-58-6	1,1-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
108-86-1	Bromobenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
87-61-6	1,2,3-Trichlorobenzene	1.0 U

APRD2174

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483244

Matrix: (soil/water) WATER

Lab File ID: 483244D

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

Date Received: 04/11/02

Level: (Low/med) LOW

Date Analyzed: 04/15/02

% Moisture: not dec.

Dilution Factor: 1.7

ID: 0.53 (mm)

GC Column: CAP

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND

0

1.7	U	Dichlorodifluoromethane	75-71-8
1.7	U	Chloromethane	74-87-3
1.7	U	Vinyl Chloride	75-01-4
1.7	U	Bromomethane	74-83-9
1.7	U	Chloroethane	75-00-3
1.7	U	Trichlorofluoromethane	75-69-4
1.7	U	Acrolein	107-02-8
1.7	U	Freon TF	76-13-1
1.7	U	1,1-Dichloroethene	75-35-4
8.5	U	Acetone	67-64-1
1.7	U	Methyl Iodide	74-88-4
1.7	U	Carbon Disulfide	75-15-0
1.7	U	Allyl Chloride	107-05-1
1.7	U	Methylene Chloride	75-09-2
1.7	U	Acrylonitrile	107-13-1
0.39	J	trans-1,2-Dichloroethene	156-60-5
57	J	1,2-Dichloroethene (total)	540-59-0
1.7	U	Methyl-t-Butyl Ether	1634-04-4
0.42	J	1,1-Dichloroethane	75-34-3
1.7	U	Vinyl Acetate	108-05-4
1.7	U	Chloroprene	126-99-8
1.7	U	cis-1,2-Dichloroethene	156-59-2
8.5	U	2-Butanone	78-93-3
6.8	U	Propionitrile	107-12-0
1.7	U	Methacrylonitrile	126-98-7
1.7	U	Bromochloromethane	74-97-5
24	U	Tetrahydrofuran	109-99-9
1.7	U	Chloroform	67-66-3
1.7	U	1,1,1-Trichloroethane	71-55-6
1.7	U	Carbon Tetrachloride	56-23-5
85	U	Isobutyl Alcohol	78-83-1
1.7	U	Benzene	71-43-2
1.7	U	1,2-Dichloroethane	107-06-2

ARD2174

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483244

Matrix: (soil/water) WATER

Lab File ID: 483244D

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/15/02

% Moisture: not dec.

Dilution Factor: 1.7

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

3.2	79-01-6	Trichloroethene
1.7	78-87-5	1,2-Dichloropropane
1.7	80-62-6	Methyl Methacrylate
1.7	74-95-3	Dibromomethane
85	123-91-1	1,4-Dioxane
1.7	75-27-4	Bromodichloromethane
1.7	110-75-8	2-Chloroethyl Vinyl Ether
1.7	10061-01-5	cis-1,3-Dichloropropene
1.7	108-10-1	4-Methyl-2-pentanone
8.5	108-88-3	Toluene
1.7	10061-02-6	trans-1,3-Dichloropropene
1.7	97-63-2	Ethyl Methacrylate
1.7	79-00-5	1,1,2-Trichloroethane
1.7	127-18-4	Tetrachloroethene
1.7	591-78-6	2-Hexanone
1.7	124-48-1	Dibromochloromethane
1.7	106-93-4	1,2-Dibromomethane
1.7	108-90-7	Chlorobenzene
1.7	630-20-6	1,1,1,2-Tetrachloroethane
1.7	100-41-4	Ethylbenzene
1.7	1330-20-7	Xylene (m,p)
1.7	1330-20-7	Xylene (total)
1.7	95-47-6	Xylene (o)
1.7	100-42-5	Styrene
1.7	75-25-2	Bromoform
1.7	98-82-8	Isopropylbenzene
1.7	1476-11-5	cis-1,4-Dichloro-2-butene
1.7	79-34-5	1,1,2,2-Tetrachloroethane
1.7	96-18-4	1,2,3-Trichloropropane
1.7	110-57-6	trans-1,4-Dichloro-2-butene
1.7	541-73-1	1,3-Dichlorobenzene
1.7	106-46-7	1,4-Dichlorobenzene
1.7	95-50-1	1,2-Dichlorobenzene

ARD2174

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483244

Matrix: (soil/water) WATER

Lab File ID: 483244D

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/15/02

% Moisture: not dec.

Dilution Factor: 1.7

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

1.7	U	96-12-8-1,2-Dibromo-3-Chloropropane
1.7	U	120-82-1-1,2,4-Trichlorobenzene
1.7	U	87-68-3-Hexachlorobutadiene
1.7	U	91-20-3-Naphthalene
1.7	U	594-20-7-2,2-Dichloropropane
1.7	U	563-58-6-1,1-Dichloropropane
1.7	U	142-28-9-1,3-Dichloropropane
1.7	U	108-86-1-Bromobenzene
1.7	U	103-65-1-n-Propylbenzene
1.7	U	95-49-8-2-Chlorotoluene
1.7	U	106-43-4-4-Chlorotoluene
1.7	U	108-67-8-1,3,5-Trimethylbenzene
1.7	U	98-06-6-tert-Butylbenzene
1.7	U	95-63-6-1,2,4-Trimethylbenzene
1.7	U	135-98-8-sec-Butylbenzene
1.7	U	99-87-6-4-Isopropyltoluene
1.7	U	104-51-8-n-Butylbenzene
1.7	U	87-61-6-1,2,3-Trichlorobenzene



FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

FORM 1

ARD2175

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483254

Matrix: (soil/water) WATER

Lab File ID: 483254D

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

Level: (low/med) LOW

Date Received: 04/11/02

% Moisture: not dec.

Date Analyzed: 04/15/02

ID: 0.53 (mm)

Dilution Factor: 1.7

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:  
(ng/L or ug/kg) UG/L

CAS NO.

COMPOUND

0

1.7	U	Dichlorodifluoromethane	75-71-8
1.7	U	Chloromethane	74-87-3
1.7	U	Vinyl Chloride	75-01-4
1.7	U	Bromomethane	74-83-9
1.7	U	Chloroethane	75-00-3
1.7	U	Trichlorofluoromethane	75-69-4
1.7	U	Acrolein	107-02-8
8.5	U	Freon TF	76-13-1
1.7	U	1,1-Dichloroethene	75-35-4
1.7	U	Acetone	67-64-1
8.5	U	Methyl Iodide	74-88-4
1.7	U	Carbon Disulfide	75-15-0
1.7	U	Allyl Chloride	107-05-1
1.7	U	Methylene Chloride	75-09-2
1.7	U	Acrylonitrile	107-13-1
156	60	5	trans-1,2-Dichloroethene
540	59	0	1,2-Dichloroethene (total)
1634	04	4	Methyl-t-Butyl Ether
75	34	3	1,1-Dichloroethane
108	05	4	Vinyl Acetate
126	99	8	Chloroprene
156	59	2	cis-1,2-Dichloroethene
78	93	3	2-Butanone
107	12	0	Propionitrile
126	98	7	Methacrylonitrile
74	97	5	Bromochloromethane
109	99	9	Tetrahydrofuran
67	66	3	Chloroform
71	55	6	1,1,1-Trichloroethane
56	23	5	Carbon Tetrachloride
78	83	1	Isobutyl Alcohol
71	43	2	Benzene
107	06	2	1,2-Dichloroethane

ARD2175

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483254

Matrix: (soil/water) WATER

Lab File ID: 483254D

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/15/02

% Moisture: not dec.

Dilution Factor: 1.7

ID: 0.53 (mm)

GC Column: CAP

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

3.2	Trichloroethene	79-01-6
1.7	1,2-Dichloropropane	78-87-5
1.7	Methyl Methacrylate	80-62-6
1.7	Dibromomethane	74-95-3
85	1,4-Dioxane	123-91-1
1.7	Bromodichloromethane	75-27-4
1.7	2-Chloroethyl Vinyl Ether	110-75-8
1.7	cis-1,3-Dichloropropene	10061-01-5
8.5	4-Methyl-2-pentanone	108-10-1
1.7	Toluene	108-88-3
1.7	trans-1,3-Dichloropropene	10061-02-6
1.7	Ethyl Methacrylate	97-63-2
1.7	1,1,2-Trichloroethane	79-00-5
1.7	2-Hexanone	591-78-6
1.7	Dibromochloromethane	124-48-1
1.7	1,2-Dibromoethane	106-93-4
1.7	Chlorobenzene	108-90-7
1.7	1,1,1,2-Tetrachloroethane	630-20-6
1.7	Ethylbenzene	100-41-4
1.7	Xylene (m,p)	1330-20-7
1.7	Xylene (total)	1330-20-7
1.7	Xylene (o)	95-47-6
1.7	Styrene	100-42-5
1.7	Bromoform	75-25-2
1.7	Isopropylbenzene	98-82-8
1.7	cis-1,4-Dichloro-2-butene	1476-11-5
1.7	1,1,2,2-Tetrachloroethane	79-34-5
1.7	1,2,3-Trichloropropane	96-18-4
1.7	trans-1,4-Dichloro-2-butene	110-57-6
1.7	1,3-Dichlorobenzene	541-73-1
1.7	1,4-Dichlorobenzene	106-46-7
1.7	1,2-Dichlorobenzene	95-50-1



ARD2175

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER

Lab Sample ID: 483254

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

Lab File ID: 483254D

Level: (low/med) LOW

Date Received: 04/11/02

% Moisture: not dec.

Date Analyzed: 04/15/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.7

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

96-12-8	1,2-Dibromo-3-Chloropropane	1.7 U
120-82-1	1,2,4-Trichlorobenzene	1.7 U
87-68-3	Hexachlorobutadiene	1.7 U
91-20-3	Naphthalene	1.7 U
594-20-7	2,2-Dichloropropane	1.7 U
563-58-6	1,1-Dichloropropane	1.7 U
142-28-9	1,3-Dichloropropane	1.7 U
108-86-1	Bromobenzene	1.7 U
103-65-1	n-Propylbenzene	1.7 U
95-49-8	2-Chlorotoluene	1.7 U
106-43-4	4-Chlorotoluene	1.7 U
108-67-8	1,3,5-Trimethylbenzene	1.7 U
98-06-6	tert-Butylbenzene	1.7 U
95-63-6	1,2,4-Trimethylbenzene	1.7 U
135-98-8	sec-Butylbenzene	1.7 U
99-87-6	4-Isopropyltoluene	1.7 U
104-51-8	n-Butylbenzene	1.7 U
87-61-6	1,2,3-Trichlorobenzene	1.7 U

LWUB LCS

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: LWUB LCS

Matrix: (soil/water) WATER

Lab File ID: LWU10BQ

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

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 04/15/02

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND

Q

10	Dichlorodifluoromethane	75-71-8
9.9	Chloromethane	74-87-3
10	Vinyl Chloride	75-01-4
9.7	Bromomethane	74-83-9
11	Chloroethane	75-00-3
10	Trichlorofluoromethane	75-69-4
41	Acrolein	107-02-8
9.8	Freon TF	76-13-1
10	1,1-Dichloroethene	75-35-4
43	Acetone	67-64-1
11	Methyl Iodide	74-88-4
9.7	Carbon Disulfide	75-15-0
9.8	Allyl Chloride	107-05-1
10	Methylene Chloride	75-09-2
11	Acrylonitrile	107-13-1
11	trans-1,2-Dichloroethene	156-60-5
22	1,2-Dichloroethene (total)	540-59-0
11	Methyl-t-Butyl Ether	1634-04-4
11	1,1-Dichloroethane	75-34-3
10	Vinyl Acetate	108-05-4
10	Chloroprene	126-99-8
156-59-2	cis-1,2-Dichloroethene	156-59-2
78-93-3	2-Butanone	78-93-3
107-12-0	Propionitrile	107-12-0
126-98-7	Methacrylonitrile	126-98-7
74-97-5	Bromochloromethane	74-97-5
109-99-9	Tetrahydrofuran	109-99-9
67-66-3	Chloroform	67-66-3
71-55-6	1,1,1-Trichloroethane	71-55-6
56-23-5	Carbon Tetrachloride	56-23-5
78-83-1	Isobutyl Alcohol	78-83-1
71-43-2	Benzene	71-43-2
107-06-2	1,2-Dichloroethane	107-06-2

LWUB LCS

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: LWUB LCS

Matrix: (soil/water) WATER

Lab File ID: LWU10BQ

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

Date Received:

Level: (low/med) LOW

Date Analyzed: 04/15/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

11	Trichloroethene	79-01-6
11	1,2-Dichloropropane	78-87-5
11	Methyl Methacrylate	80-62-6
10	Dibromomethane	74-95-3
11	1,4-Dioxane	123-91-1
560	Bromodichloromethane	75-27-4
10	2-Chloroethyl Vinyl Ether	110-75-8
11	cis-1,3-Dichloropropene	10061-01-5
11	4-Methyl-2-pentanone	108-10-1
47	Toluene	108-88-3
10	trans-1,3-Dichloropropene	10061-02-6
11	Ethyl Methacrylate	97-63-2
11	1,1,2-Trichloroethane	79-00-5
11	Tetrachloroethene	127-18-4
9.6	2-Hexanone	591-78-6
50	Dibromochloromethane	124-48-1
11	1,2-Dibromoethane	106-93-4
11	Chlorobenzene	108-90-7
10	1,1,1,2-Tetrachloroethane	630-20-6
10	Ethylbenzene	100-41-4
20	Xylene (m,p)	1330-20-7
32	Xylene (total)	1330-20-7
10	Xylene (o)	95-47-6
10	Styrene	100-42-5
10	Bromoform	75-25-2
10	Isopropylbenzene	98-82-8
10	cis-1,4-Dichloro-2-butene	1476-11-5
10	1,1,2,2-Tetrachloroethane	79-34-5
11	1,2,3-Trichloropropane	96-18-4
11	trans-1,4-Dichloro-2-butene	110-57-6
11	1,3-Dichlorobenzene	541-73-1
11	1,4-Dichlorobenzene	106-46-7
10	1,2-Dichlorobenzene	95-50-1

LWUB LCS

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLV

Lab Sample ID: LWUB LCS

Matrix: (soil/water) WATER

Lab File ID: LWU10BQ

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

Date Received:

Level: (low/med) LOW

Date Analyzed: 04/15/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

11	1,2-Dibromo-3-Chloropropane	96-12-8
12	1,2,4-Trichlorobenzene	120-82-1
14	Hexachlorobutadiene	87-68-3
14	Naphthalene	91-20-3
12	2,2-Dichloropropane	594-20-7
10	1,1-Dichloropropane	563-58-6
11	1,3-Dichloropropane	142-28-9
11	Bromobenzene	108-86-1
11	n-Propylbenzene	103-65-1
11	2-Chlorotoluene	95-49-8
11	4-Chlorotoluene	106-43-4
11	1,3,5-Trimethylbenzene	108-67-8
11	tert-Butylbenzene	98-06-6
10	1,2,4-Trimethylbenzene	95-63-6
11	sec-Butylbenzene	135-98-8
11	4-Isopropyltoluene	99-87-6
12	n-Butylbenzene	104-51-8
12	1,2,3-Trichlorobenzene	87-61-6

LWUB LCSD

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: LWUB LCSD

Matrix: (soil/water) WATER

Lab File ID: LWU10BQ2

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

Date Received:

Level: (low/med) LOW

Date Analyzed: 04/15/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

11	Dichlorodifluoromethane	75-71-8
11	Chloromethane	74-87-3
11	Vinyl Chloride	75-01-4
11	Bromomethane	74-83-9
10	Chloroethane	75-00-3
12	Trichlorofluoromethane	75-69-4
11	Acrolein	107-02-8
44	Freon TF	76-13-1
10	1,1-Dichloroethene	75-35-4
10	Acetone	67-64-1
46	Methyl Iodide	74-88-4
12	Carbon Disulfide	75-15-0
10	Allyl Chloride	107-05-1
11	Methylene Chloride	75-09-2
11	Acrylonitrile	107-13-1
11	trans-1,2-Dichloroethene	156-60-5
23	1,2-Dichloroethene (total)	540-59-0
10	Methyl-t-Butyl Ether	1634-04-4
11	1,1-Dichloroethane	75-34-3
9.5	Vinyl Acetate	108-05-4
10	Chloroprene	126-99-8
10	cis-1,2-Dichloroethene	156-59-2
11	2-Butanone	78-93-3
51	Propionitrile	107-12-0
42	Methacrylonitrile	126-98-7
11	Bromochloromethane	74-97-5
12	Tetrahydrofuran	109-99-9
140	Chloroform	67-66-3
11	1,1,1-Trichloroethane	71-55-6
11	Carbon Tetrachloride	56-23-5
11	Isobutyl Alcohol	78-83-1
540	Benzene	71-43-2
10	1,2-Dichloroethane	107-06-2

LWUB LCSD

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: LWUB LCSD

Matrix: (soil/water) WATER

Lab File ID: LWU10BQ2

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

Date Received:

Level: (low/med) LOW

Date Analyzed: 04/15/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

11	79-01-6	Trichloroethene
11	78-87-5	1,2-Dichloropropane
11	80-62-6	Methyl Methacrylate
10	74-95-3	Dibromomethane
11	123-91-1	1,4-Dioxane
630	75-27-4	Bromodichloromethane
11	110-75-8	2-Chloroethyl Vinyl Ether
11	10061-01-5	cis-1,3-Dichloropropene
49	108-10-1	4-Methyl-2-pentanone
10	108-88-3	Toluene
11	10061-02-6	trans-1,3-Dichloropropene
11	97-63-2	Ethyl Methacrylate
10	79-00-5	1,1,2-Trichloroethane
10	127-18-4	Tetrachloroethene
51	591-78-6	2-Hexanone
10	124-48-1	Dibromochloromethane
10	106-93-4	1,2-Dibromomethane
10	108-90-7	Chlorobenzene
10	630-20-6	1,1,1,2-Tetrachloroethane
10	100-41-4	Ethylbenzene
10	1330-20-7	Xylene (m,p)
32	1330-20-7	Xylene (total)
10	95-47-6	Xylene (o)
11	100-42-5	Styrene
10	75-25-2	Bromoforn
10	98-82-8	Isopropylbenzene
10	1476-11-5	cis-1,4-Dichloro-2-butene
11	79-34-5	1,1,2,2-Tetrachloroethane
11	96-18-4	1,2,3-Trichloropropane
11	110-57-6	trans-1,4-Dichloro-2-butene
11	541-73-1	1,3-Dichlorobenzene
11	106-46-7	1,4-Dichlorobenzene
11	95-50-1	1,2-Dichlorobenzene

LWUB LCSD

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: LWUB LCSD

Matrix: (soil/water) WATER

Lab File ID: LWU10BQ2

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

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 04/15/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

11	96-12-8	1,2-Dibromo-3-Chloropropane
12	120-82-1	1,2,4-Trichlorobenzene
12	87-68-3	Hexachlorobutadiene
14	91-20-3	Naphthalene
12	594-20-7	2,2-Dichloropropane
11	563-58-6	1,1-Dichloropropane
11	142-28-9	1,3-Dichloropropane
11	108-86-1	Bromobenzene
11	103-65-1	n-Propylbenzene
11	95-49-8	2-Chlorotoluene
10	106-43-4	4-Chlorotoluene
11	108-67-8	1,3,5-Trimethylbenzene
10	98-06-6	tert-Butylbenzene
11	95-63-6	1,2,4-Trimethylbenzene
10	135-98-8	sec-Butylbenzene
11	99-87-6	4-Isopropyltoluene
11	104-51-8	n-Butylbenzene
11	87-61-6	1,2,3-Trichlorobenzene



Lab Name: STL BURLINGTON

Contract: 98011

VBLKZ2

Lab Code: STLVT

Case No.: 98011 SAS No.:

SDG No.: 87428

Matrix: (soil/water) WATER

Lab Sample ID: VBLKZ2

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

Lab File ID: LMUB01B

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 04/15/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
75-71-8	Dichlorodifluoromethane	1.0 U
74-87-3	Chloromethane	1.0 U
75-01-4	Vinyl Chloride	1.0 U
74-83-9	Bromomethane	1.0 U
75-00-3	Chloroethane	1.0 U
75-69-4	Trichlorofluoromethane	1.0 U
107-02-8	Acrolein	5.0 U
76-13-1	Freon TF	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
67-64-1	Acetone	5.0 U
74-88-4	Methyl Iodide	1.0 U
75-15-0	Carbon Disulfide	1.0 U
107-05-1	Allyl Chloride	1.0 U
75-09-2	Methylene Chloride	1.0 U
107-13-1	Acrylonitrile	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
540-59-0	1,2-Dichloroethene (total)	1.0 U
1634-04-4	Methyl-t-Butyl Ether	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
108-05-4	Vinyl Acetate	1.0 U
126-99-8	Chloroprene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
78-93-3	2-Butanone	5.0 U
107-12-0	Propionitrile	4.0 U
126-98-7	Methacrylonitrile	1.0 U
74-97-5	Bromochloromethane	1.0 U
109-99-9	Tetrahydrofuran	14 U
67-66-3	Chloroform	1.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
78-83-1	Isobutyl Alcohol	50 U
71-43-2	Benzene	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U



VBLK22

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: VBLK22

Matrix: (soil/water) WATER

Lab File ID: LMUB01B

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

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 04/15/02

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

1.0	U	79-01-6	Trichloroethene
1.0	U	78-87-5	1,2-Dichloropropane
1.0	U	80-62-6	Methyl Methacrylate
1.0	U	74-95-3	Dibromomethane
50	U	123-91-1	1,4-Dioxane
1.0	U	75-27-4	Bromodichloromethane
1.0	U	110-75-8	2-Chloroethyl Vinyl Ether
1.0	U	10061-01-5	cis-1,3-Dichloropropene
5.0	U	108-10-1	4-Methyl-2-pentanone
1.0	U	108-88-3	Toluene
1.0	U	10061-02-6	trans-1,3-Dichloropropene
1.0	U	97-63-2	Ethyl Methacrylate
1.0	U	79-00-5	1,1,2-Trichloroethane
1.0	U	127-18-4	Tetrachloroethene
5.0	U	591-78-6	2-Hexanone
1.0	U	124-48-1	Dibromochloromethane
1.0	U	106-93-4	1,2-Dibromoethane
1.0	U	108-90-7	Chlorobenzene
1.0	U	630-20-6	1,1,1,2-Tetrachloroethane
1.0	U	100-41-4	Ethylbenzene
1.0	U	1330-20-7	Xylene (m,p)
1.0	U	1330-20-7	Xylene (total)
1.0	U	95-47-6	Xylene (o)
1.0	U	100-42-5	Styrene
1.0	U	75-25-2	Bromoform
1.0	U	98-82-8	Isopropylbenzene
1.0	U	1476-11-5	cis-1,4-Dichloro-2-butene
1.0	U	79-34-5	1,1,2,2-Tetrachloroethane
1.0	U	96-18-4	1,2,3-Trichloropropane
1.0	U	110-57-6	trans-1,4-Dichloro-2-butene
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

VOLATILE ORGANICS ANALYSIS DATA SHEET

FORM 1

CLIENT SAMPLE NO.

Lab Name: STL BURLINGTON

Contract: 98011

VBLKZ2

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 87428

Matrix: (soil/water) WATER

Lab Sample ID: VBLKZ2

Sample wt/vol:

5.000 (g/mL) ML

Lab File ID: LMUB01B

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 04/15/02

GC Column: CAP

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

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

Q

96-12-8	1,2-Dibromo-3-Chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	0.37	U
594-20-7	2,2-Dichloropropane	1.0	U
563-58-6	1,1-Dichloropropane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
108-86-1	Bromobenzene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U
104-51-8	n-Butylbenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	0.25	U

FORM I VOA

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

CLIENT	SAMPLE NO.	SMC1	SMC2	SMC3	OTHER	TOT
(TOL) #	(DCE) #	(BFB) #	(DCB) #	(DCE) #	(BFB) #	(DCB) #
01	LWUB LCS	98	90	102	101	0
02	LWUB LCSD	102	94	104	105	0
03	VBLKZ2	100	97	108	105	0
04	ARD2171	103	100	114	104	0
05	ARD2174	102	96	109	110	0
06	ARD2175	104	104	111	104	0
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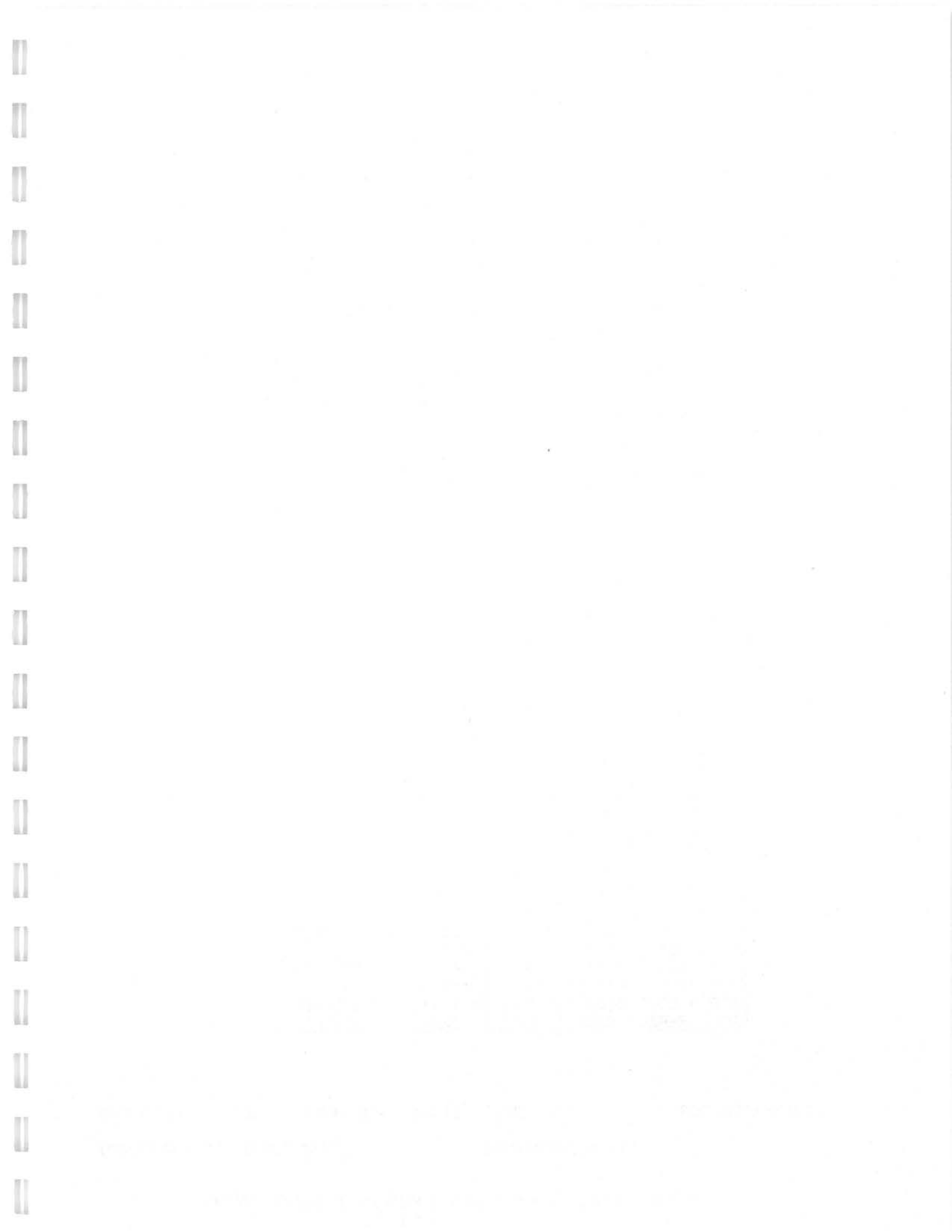
QC LIMITS

SMC1 (TOL) = Toluene-d8 (88-110)  
 SMC2 (DCE) = 1,2-Dichloroethane-d4 (72-141)  
 SMC3 (BFB) = Bromofluorobenzene (72-122)  
 OTHER (DCB) = 1,2-Dichlorobenzene-d4 (69-124)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

D System Monitoring Compound diluted out





Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix Spike - Sample No.: LMWB LCS

QC*	LCS REC #	LCS CONCENTRATION (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE ADDED (ug/L)	COMPOUND
				10	1,1,1-Trichloroethane
		10		10	Carbon Tetrachloride
		520		500	Isobutyl Alcohol
		10		10	Benzene
		10		10	1,2-Dichloroethane
		11		10	Trichloroethene
		11		10	1,2-Dichloropropane
		11		10	Methyl Methacrylate
		10		10	Dibromomethane
		11		10	1,4-Dioxane
		560		500	Bromodichloromethane
		10		10	2-Chloroethyl Vinyl Eth
		11		10	cis-1,3-Dichloropropene
		11		10	4-Methyl-2-pentanone
		47		50	Toluene
		10		10	trans-1,3-Dichloropropene
		11		10	Ethyl Methacrylate
		11		10	1,1,2-Trichloroethane
		9.6		10	Tetrachloroethene
		50		50	2-Hexanone
		11		10	Dibromochloromethane
		11		10	1,2-Dibromoethane
		10		10	Chlorobenzene
		10		10	1,1,1,2-Tetrachloroethane
		10		10	Ethylbenzene
		20		20	Xylene (m,p)
		32		30	Xylene (total)
		10		10	Xylene (o)
81-125	100	10		10	
60-140	107	32		30	
78-116	100	20		20	
74-124	100	10		10	
72-108	100	10		10	
81-115	100	10		10	
90-114	110	11		10	
72-112	110	11		10	
60-140	100	50		50	
71-107	96	9.6		10	
81-126	110	11		10	
60-140	110	11		10	
60-140	110	11		10	
78-126	100	10		10	
60-140	94	47		50	
60-140	110	11		10	
60-140	110	11		10	
78-112	100	10		10	
60-140	112	560		500	
83-117	110	11		10	
60-140	100	10		10	
79-115	110	11		10	
70-109	110*	11		10	
80-110	100	10		10	
78-116	100	10		10	
60-140	104	520		500	
62-106	100	10		10	
74-122	100	10		10	

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

\* Values outside of QC limits

COMMENTS:

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVIT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix Spike - Sample No.: LWUB LCS

QC LIMITS	REC #	REC %	LCS CONCENTRATION (ug/L)	SAMPLE CONCENTRATION (ug/L)	ADDED SPIKE (ug/L)	COMPOUND
=====	=====	=====	=====	=====	=====	=====
	110		11		10	Styrene
	80-124		10		10	Bromoform
	82-120		10		10	Isopropylbenzene
	78-124		10		10	cis-1,4-Dichloro-2-butene
	60-140		10		10	1,1,2,2-Tetrachloroethane
	74-108*		11		10	1,2,3-Trichloropropane
	81-137		11		10	trans-1,4-Dichloro-2-butene
	60-140		11		10	1,3-Dichlorobenzene
	79-119		11		10	1,4-Dichlorobenzene
	83-123		10		10	1,2-Dichlorobenzene
	76-110		10		10	1,2-Dibromo-3-chloropropane
	33-132		11		10	1,2,4-Trichlorobenzene
	81-135		12		10	Hexachlorobutadiene
	80-120*		14		10	Naphthalene
	78-130		12		10	2,2-Dichloropropane
	42-130		10		10	1,1-Dichloropropane
	72-124		11		10	1,3-Dichloropropane
	79-113		11		10	Bromobenzene
	84-116		11		10	n-Propylbenzene
	83-117		11		10	2-Chlorotoluene
	73-107*		11		10	4-Chlorotoluene
	74-124		11		10	1,3,5-Trimethylbenzene
	72-112		11		10	tert-Butylbenzene
	80-124		11		10	1,2,4-Trimethylbenzene
	75-123		10		10	sec-Butylbenzene
	77-123		11		10	4-Isopropyltoluene
	79-119		11		10	n-Butylbenzene
	77-123		12		10	1,2,3-Trichlorobenzene
	81-137		120		10	

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

\* Values outside of QC limits

COMMENTS:

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLV Case No.: 98011 SAS No.: SDG No.: 87428

Matrix Spike - Sample No.: LMWB LCS

SPIKE	ADDED	CONCENTRATION	LCS	REC #	%	RPD #	QC LIMITS	RPD	REC.
10	11	110	110	10	10	40	78-116	40	78-116
10	11	110	110	10	10	40	68-118	40	68-118
10	11	110	110	10	10	40	78-118	40	78-118
10	10	100	100	3	100	40	72-118	40	72-118
10	12	120*	120*	9	100	40	65-113	40	65-113
10	11	110	110	10	100	40	67-111	40	67-111
10	44	88	88	7	100	40	60-140	40	60-140
10	10	100	100	2	100	40	60-140	40	60-140
10	10	100	100	2	100	40	60-140	40	60-140
10	10	100	100	7	100	40	75-113	40	75-113
50	46	92	92	7	100	40	60-140	40	60-140
10	12	120	120	9	100	40	60-140	40	60-140
10	10	100	100	3	100	40	60-140	40	60-140
10	10	100	100	2	100	40	60-140	40	60-140
10	10	100	100	2	100	40	60-140	40	60-140
10	11	110	110	10	100	40	80-110	40	80-110
10	11	110	110	0	100	40	60-140	40	60-140
10	11	110	110	0	100	40	60-140	40	60-140
10	9.5	95	95	5	100	40	60-140	40	60-140
10	10	100	100	0	100	40	60-140	40	60-140
10	11	110	110	0	100	40	81-111	40	81-111
10	51	102	102	2	100	40	60-140	40	60-140
40	42	105	105	3	100	40	60-140	40	60-140
10	11	110	110	10	100	40	60-140	40	60-140
10	12	120*	120*	9	100	40	73-107	40	73-107
140	140	100	100	0	100	40	60-140	40	60-140
10	11	110*	110*	0	100	40	74-106	40	74-106

# Column to be used to flag recovery and RPD values with an asterisk  
\* Values outside of QC limits

COMMENTS:



Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428 Matrix Spike - Sample No.: LWUB LCS

COMPOUND	ADDED SPIKE (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	RPD % #	QC LIMITS RPD	REC.
1,1,1-Trichloroethane	10	11	110	10	40	74-122
Carbon Tetrachloride	10	11	110*	10	40	62-106
Isobutyl Alcohol	500	540	108	4	40	60-140
Benzene	10	11	110	10	40	78-116
1,2-Dichloroethane	10	10	100	0	40	80-110
Trichloroethene	10	11	110*	0	40	70-109
1,2-Dichloropropane	10	11	110	0	40	79-115
Methyl Methacrylate	10	10	100	0	40	60-140
Dibromomethane	10	11	110	0	40	83-117
1,4-Dioxane	500	630	126	12	40	60-140
Bromodichloromethane	10	11	110	10	40	78-112
2-Chloroethyl Vinyl Eth	10	9.9	99	10	40	60-140
cis-1,3-Dichloropropene	10	11	110	0	40	60-140
4-Methyl-2-pentanone	50	49	98	4	40	60-140
Toluene	10	10	100	0	40	78-126
trans-1,3-Dichloropropene	10	11	110	0	40	60-140
Ethyl Methacrylate	10	11	110	0	40	60-140
1,1,2-Trichloroethane	10	10	100	10	40	60-140
Tetrachloroethene	10	10	100	10	40	81-126
2-Hexanone	50	51	102	2	40	60-140
Dibromochloromethane	10	10	100	10	40	72-112
1,2-Dibromomethane	10	10	100	10	40	72-112
Chlorobenzene	10	10	100	0	40	90-114
1,1,1,2-Tetrachloroethane	10	10	100	0	40	81-115
Ethylbenzene	10	10	100	0	40	72-108
Xylene (m,p)	20	20	100	0	40	74-124
Xylene (total)	30	32	107	0	40	60-140
Xylene (o)	10	10	100	0	40	81-125

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

COMMENTS:

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Matrix Spike - Sample No.: LMUB LCS

COMPUND	SPIKE ADDED (ug/L)	LCS-D CONCENTRATION (ug/L)	LCS-D % REC #	RPD #	RPD %	QC LIMITS	REC. RPD
Styrene	10	11	110	0	0	40	80-124
Bromoforn	10	10	100	0	0	40	82-120
Isopropylbenzene	10	10	100	0	0	40	78-124
cis-1,4-Dichloro-2-bute	10	10	100	0	0	40	60-140
1,1,2,2-Tetrachloroetha	10	11	110*	0	0	40	74-108
1,2,3-Trichloropropane	10	11	110	0	0	40	81-137
trans-1,4-Dichloro-2-bu	10	11	110	0	0	40	60-140
1,3-Dichlorobenzene	10	11	110	0	0	40	79-119
1,4-Dichlorobenzene	10	11	110	10	10	40	83-123
1,2-Dichlorobenzene	10	11	110	10	10	40	76-110
1,2-Dibromo-3-chloropro	10	11	110	0	0	40	33-132
1,2,4-Trichlorobenzene	10	12	120	0	0	40	81-135
Hexachlorobutadiene	10	14	140*	0	0	40	80-120
Naphthalene	10	12	120	0	0	40	78-130
2,2-Dichloropropane	10	11	110	10	10	40	42-130
1,1-Dichloropropane	10	11	110	0	0	40	72-124
1,3-Dichloropropane	10	11	110	0	0	40	79-113
Bromobenzene	10	11	110	0	0	40	84-116
n-Propylbenzene	10	11	110	0	0	40	83-117
2-Chlorotoluene	10	10	100	10	10	40	73-107
4-Chlorotoluene	10	11	110	0	0	40	74-124
1,3,5-Trimethylbenzene	10	10	100	10	10	40	72-112
tert-Butylbenzene	10	11	110	0	0	40	80-124
1,2,4-Trimethylbenzene	10	10	100	0	0	40	75-123
sec-Butylbenzene	10	11	110	0	0	40	77-123
4-Isopropyltoluene	10	11	110	0	0	40	79-119
n-Butylbenzene	10	11	110	9	9	40	77-123
1,2,3-Trichlorobenzene	10	12	120	0	0	40	81-137

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

\* Values outside of QC limits

RPD: 0 out of 84 outside limits  
Spike Recovery: 15 out of 168 outside limits

COMMENTS:

VBLKZ2

Contract: 98011

SDG No.: 87428

Lab Sample ID: VBLKZ2

Time Analyzed: 1305

Heated Purge: (Y/N) N

Instrument ID: I

GC Column: CAP ID: 0.53 (mm)

Date Analyzed: 04/15/02

Lab File ID: LMUB01B

Lab Code: STLVT Case No.: 98011 SAS No.:

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

SAMPLE NO.	LAB	SAMPLE ID	LAB	FILE ID	TIME ANALYZED
01	LMUB LCS	LMUB LCS	LMUB0BQ	LMU10BQ	1208
02	LMUB LCSD	LMUB LCSD	LMU10BQ2	LMU10BQ2	1237
03	ARD2171	483241	483241	483241	1431
04	ARD2174	483244	483244D	483244D	1459
05	ARD2175	483254	483254D	483254D	1528
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COMMENTS:



FORM 5  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Lab File ID: LMU01PV BFB Injection Date: 04/12/02

Instrument ID: L BFB Injection Time: 1309

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	47.8
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	56.6
175	5.0 - 9.0% of mass 174	4.0 (7.1)1
176	95.0 - 101.0% of mass 174	55.2 (97.5)1
177	5.0 - 9.0% of mass 176	3.7 (6.6)2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001	LMU01V	04/12/02	1350
02	VSTD005	LMU05V	04/12/02	1419
03	VSTD010	LMU10V	04/12/02	1447
04	VSTD025	LMU25V	04/12/02	1516
05	VSTD050	LMU50V	04/12/02	1544
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FORM 5  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Lab File ID: LMU03PV BFB Injection Date: 04/15/02

Instrument ID: L BFB Injection Time: 1129

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.0
75	30.0 - 60.0% of mass 95	46.7
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	0.4 (0.7)1
174	50.0 - 120.0% of mass 95	60.4
175	5.0 - 9.0% of mass 174	4.3 (7.1)1
176	95.0 - 101.0% of mass 174	57.9 (95.9)1
177	5.0 - 9.0% of mass 176	4.1 (7.1)2

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	LMU10BV	04/15/02	1140
02	LMUB LCS	LMU10BQ	04/15/02	1208
03	LMUB LCSD	LMU10BQ2	04/15/02	1237
04	VBLKZ2	LMUB01B	04/15/02	1305
05	ARD2171	483241	04/15/02	1431
06	ARD2174	483244	04/15/02	1459
07	ARD2175	483254	04/15/02	1528
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

6A

Contract: 98011

Lab Name: STL BURLINGTON Case No.: 98011 SAS No.: SDG No.: 87428

Instrument ID: L Calibration Date(s): 04/12/02

Heated Purge: (Y/N) N Calibration Time(s): 1350

1544

GC Column: CAP

ID: 0.53 (mm)

LAB FILE ID:  
RRF10 = LMU10V

RRF1 = LMU01V  
RRF25 = LMU25V

RRF5 = LMU05V  
RRF50 = LMU50V

COMPOUND	RRF1	RRF5	RRF10	RRF25	RRF50	RRF	% RSD
Dichlorodifluoromethane	0.568	0.541	0.517	0.577	0.498	0.540	6.2
Chloromethane	0.400	0.368	0.355	0.408	0.355	0.377	6.7*
Vinyl Chloride	0.343	0.329	0.325	0.358	0.326	0.336	4.2
Bromomethane	0.307	0.272	0.237	0.222	0.173	0.242	20.9
Chloroethane	0.208	0.215	0.185	0.184	0.126	0.184	19.0
Trichlorofluoromethane	0.544	0.562	0.513	0.616	0.540	0.555	6.9
Acrolein	0.037	0.037	0.035	0.039	0.036	0.037	3.8
Freon TF	0.563	0.531	0.537	0.619	0.582	0.566	6.3
1,1-Dichloroethene	0.281	0.292	0.286	0.315	0.285	0.292	4.7
Acetone	0.078	0.073	0.072	0.076	0.070	0.074	4.3
Methyl Iodide	0.373	0.426	0.433	0.543	0.524	0.460	15.5
Carbon Disulfide	0.905	0.844	0.800	0.944	0.880	0.875	6.3
Allyl Chloride	0.546	0.513	0.490	0.572	0.520	0.528	6.0
Methylene Chloride	0.400	0.308	0.288	0.334	0.309	0.328	13.3
Acrylonitrile	0.083	0.083	0.070	0.088	0.081	0.081	7.9
trans-1,2-Dichloroethene	0.291	0.298	0.302	0.345	0.333	0.314	7.6
1,2-Dichloroethene (total)	0.312	0.326	0.321	0.364	0.353	0.335	6.6
Methyl-t-Butyl Ether	0.590	0.636	0.620	0.660	0.651	0.631	4.4
1,1-Dichloroethane	0.724	0.739	0.660	0.749	0.709	0.716	4.9*
Vinyl Acetate	0.590	0.539	0.519	0.549	0.517	0.543	5.5
Chloroprene	0.490	0.509	0.490	0.542	0.514	0.509	4.2
cis-1,2-Dichloroethene	0.333	0.353	0.341	0.383	0.373	0.357	5.9
2-Butanone	0.016	0.022	0.022	0.025	0.026	0.022	18.0
Propionitrile	0.016	0.026	0.024	0.030	0.030	0.025	21.8
Methacrylonitrile	0.064	0.077	0.083	0.090	0.093	0.081	14.1
Bromochloromethane	0.221	0.217	0.205	0.239	0.222	0.221	5.5
Tetrahydrofuran	0.074	0.077	0.077	0.083	0.081	0.078	4.7
Chloroform	0.718	0.711	0.675	0.755	0.708	0.713	4.0
1,1,1-Trichloroethane	0.531	0.539	0.498	0.563	0.526	0.531	4.4
Carbon Tetrachloride	0.482	0.494	0.455	0.514	0.491	0.487	4.4
Isobutyl Alcohol	0.008	0.010	0.010	0.012	0.012	0.010	17.7
Benzene	1.081	1.035	0.979	1.075	1.033	1.041	3.9
1,2-Dichloroethane	0.468	0.479	0.451	0.495	0.436	0.466	5.0
Trichloroethene	0.379	0.400	0.389	0.419	0.416	0.401	4.3
1,2-Dichloropropane	0.442	0.476	0.458	0.510	0.489	0.475	5.5
Methyl Methacrylate	0.162	0.223	0.240	0.248	0.261	0.227	17.1
Dibromomethane	0.360	0.380	0.360	0.401	0.372	0.375	4.5

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

6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Instrument ID: L Calibration Date(s): 04/12/02 04/12/02

Heated Purge: (Y/N) N Calibration Time(s): 1350 1544

GC Column: CAP ID: 0.53 (mm)

LAB FILE ID: RRF1 = LMU01V RRF5 = LMU05V RRF10 = LMU10V  
RRF25 = LMU25V RRF50 = LMU50V

COMPOUND	RRF1	RRF5	RRF10	RRF25	RRF50	RRF	% RSD
1,4-Dioxane	0.002	0.002	0.002	0.003	0.003	0.002	22.1
Bromodichloromethane	0.635	0.649	0.623	0.699	0.660	0.653	4.5
2-Chloroethyl Vinyl Ether	0.149	0.208	0.208	0.226	0.229	0.204	15.8
cis-1,3-Dichloropropene	0.532	0.591	0.581	0.643	0.632	0.596	7.5
4-Methyl-2-pentanone	0.321	0.364	0.349	0.395	0.369	0.360	7.6
Toluene	0.818	0.798	0.803	0.822	0.802	0.809	1.3
trans-1,3-Dichloropropene	0.448	0.570	0.606	0.591	0.620	0.567	12.2
Ethyl Methacrylate	0.277	0.440	0.456	0.533	0.507	0.443	22.6
1,1,2-Trichloroethane	0.337	0.357	0.381	0.366	0.376	0.363	4.8
Tetrachloroethene	0.530	0.585	0.591	0.576	0.624	0.581	5.8
2-Hexanone	0.109	0.243	0.279	0.306	0.304	0.248	32.9
Dibromochloromethane	0.560	0.628	0.670	0.669	0.705	0.646	8.6
1,2-Dibromoethane	0.532	0.559	0.618	0.602	0.606	0.583	6.3
Chlorobenzene	1.019	0.991	1.004	1.041	1.010	1.013	1.8
1,1,1,2-Tetrachloroethane	0.466	0.463	0.472	0.482	0.469	0.470	1.5
Ethylbenzene	1.509	1.627	1.585	1.717	1.664	1.620	4.9
Xylene (m,p)	0.650	0.636	0.630	0.685	0.656	0.651	3.3
Xylene (total)	0.590	0.614	0.607	0.652	0.618	0.616	3.6
Xylene (o)	0.590	0.614	0.607	0.652	0.618	0.616	3.6
Styrene	0.854	0.982	0.990	1.083	1.046	0.991	8.8
Bromoforn	0.352	0.413	0.443	0.455	0.452	0.423	10.2
Isopropylbenzene	3.103	2.995	2.855	3.033	2.877	2.973	3.5
cis-1,4-Dichloro-2-butene	0.230	0.282	0.298	0.298	0.278	0.277	10.1
1,1,2,2-Tetrachloroethane	1.323	1.312	1.344	1.292	1.211	1.296	3.9
1,2,3-Trichloropropene	0.259	0.289	0.304	0.292	0.274	0.284	6.1
trans-1,4-Dichloro-2-butene	0.206	0.301	0.245	0.298	0.244	0.259	15.5
1,3-Dichlorobenzene	1.479	1.500	1.459	1.525	1.456	1.484	2.0
1,4-Dichlorobenzene	1.817	1.681	1.611	1.692	1.623	1.685	4.8
1,2-Dichlorobenzene	1.506	1.435	1.392	1.454	1.357	1.429	4.0
1,2-Dibromo-3-Chloropropene	0.262	0.249	0.257	0.264	0.240	0.254	3.9
1,2,4-Trichlorobenzene	0.948	0.943	0.884	0.957	0.906	0.928	3.4
Hexachlorobutadiene	0.525	0.562	0.521	0.555	0.526	0.538	3.6
Naphthalene	1.610	1.776	1.778	1.798	1.735	1.739	4.4
2,2-Dichloropropene	0.569	0.524	0.472	0.523	0.477	0.513	7.8
1,1-Dichloropropene	0.548	0.572	0.536	0.596	0.568	0.564	4.2
1,3-Dichloropropene	0.650	0.694	0.731	0.708	0.729	0.702	4.7
Bromobenzene	0.852	0.883	0.885	0.894	0.862	0.875	2.0

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

6A

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Instrument ID: L Calibration Date(s): 04/12/02 04/12/02

Heated Purge: (Y/N) N Calibration Time(s): 1350 1544

GC Column: CAP

ID: 0.53 (mm)

LAB FILE ID:  
RRF10=LWU10V

RRF1=LWU01V  
RRF25=LWU25V

RRF5=LWU05V  
RRF50=LWU50V

COMPOUND	RRF1	RRF5	RRF10	RRF25	RRF50	RRF	% RSD
n-Propylbenzene	0.739	0.802	0.765	0.827	0.787	0.784	4.3
2-Chlorotoluene	0.779	0.750	0.733	0.758	0.730	0.750	2.7
4-Chlorotoluene	0.766	0.738	0.736	0.788	0.752	0.756	2.9
1,3,5-Trimethylbenzene	2.258	2.198	2.087	2.232	2.119	2.179	3.4
tert-Butylbenzene	2.983	2.883	2.709	2.935	2.710	2.844	4.5
1,2,4-Trimethylbenzene	2.233	2.174	2.088	2.243	2.083	2.164	3.5
sec-Butylbenzene	3.658	3.476	3.168	3.506	3.281	3.418	5.7
4-Isopropyltoluene	2.641	2.639	2.431	2.664	2.553	2.586	3.7
n-Butylbenzene	2.558	2.671	2.440	2.707	2.533	2.582	4.2
1,2,3-Trichlorobenzene	0.879	0.855	0.796	0.857	0.812	0.840	4.1
Toluene-d8	1.111	1.128	1.123	1.142	1.108	1.122	1.2
1,2-Dichloroethane-d4	0.369	0.401	0.374	0.404	0.363	0.382	5.0
Bromofluorobenzene	1.372	1.404	1.395	1.406	1.354	1.386	1.6
1,2-Dichlorobenzene-d4	1.044	0.925	0.885	0.914	0.868	0.927	7.5

\* 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: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.:  
 SDG No.: 87428  
 Instrument ID: L Calibration Date: 04/15/02 Time: 1140  
 Lab File ID: LW10BV Init. Calib. Date(s): 04/12/02 04/12/02  
 Heated Purge: (Y/N) N Init. Calib. Times: 1350 1544  
 GC Column: CAP ID: 0.53 (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.540	0.551	0.01	2.0	20.0
Chloromethane	0.377	0.358	0.1	5.0	20.0
Vinyl Chloride	0.336	0.348	0.01	3.6	20.0
Bromomethane	0.242	0.241	0.01	0.4	20.0
Chloroethane	0.184	0.200	0.01	8.7	20.0
Trichlorofluoromethane	0.555	0.546	0.01	1.6	20.0
Acrolein	0.037	0.031	0.01	16.2	20.0
Freon TF	0.566	0.566	0.01	0.0	20.0
1,1-Dichloroethene	0.292	0.292	0.01	0.0	20.0
Acetone	0.074	0.061	0.01	17.6	20.0
Methyl Iodide	0.460	0.538	0.01	17.0	20.0
Carbon Disulfide	0.875	0.861	0.01	1.6	20.0
Allyl Chloride	0.528	0.520	0.01	1.5	20.0
Methylene Chloride	0.328	0.308	0.01	6.1	20.0
Acrylonitrile	0.081	0.079	0.01	2.5	20.0
trans-1,2-Dichloroethene	0.314	0.322	0.01	2.5	20.0
1,2-Dichloroethene (total)	0.335	0.334	0.01	0.3	20.0
Methyl-t-Butyl Ether	0.631	0.663	0.01	5.1	20.0
1,1-Dichloroethane	0.716	0.690	0.1	3.6	20.0
Vinyl Acetate	0.543	0.590	0.01	8.6	20.0
Chloroprene	0.509	0.499	0.01	2.0	20.0
cis-1,2-Dichloroethene	0.357	0.345	0.01	3.4	20.0
2-Butanone	0.022	0.022	0.01	0.0	20.0
Propionitrile	0.025	0.026	0.01	4.0	20.0
Methacrylonitrile	0.081	0.082	0.01	1.2	20.0
Bromochloromethane	0.221	0.218	0.01	1.4	20.0
Tetrahydrofuran	0.078	0.076	0.01	2.6	20.0
Chloroform	0.713	0.680	0.01	4.6	20.0
1,1,1-Trichloroethane	0.531	0.548	0.01	3.2	20.0
Carbon Tetrachloride	0.487	0.519	0.01	6.6	20.0
Isobutyl Alcohol	0.010	0.010	0.01	0.0	20.0
Benzene	1.041	1.012	0.01	2.8	20.0
1,2-Dichloroethane	0.466	0.428	0.01	8.2	20.0
Trichloroethene	0.401	0.381	0.01	5.0	20.0
1,2-Dichloropropane	0.475	0.466	0.01	1.9	20.0
Methyl Methacrylate	0.227	0.257	0.01	13.2	20.0
Dibromomethane	0.375	0.368	0.01	1.9	20.0



FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428  
 Instrument ID: L Calibration Date: 04/15/02 Time: 1140  
 Lab File ID: LWU10BV Int. Calib. Date(s): 04/12/02 04/12/02  
 Heated Purge: (Y/N) N Int. Calib. Times: 1350 1544  
 GC Column: CAP ID: 0.53 (mm)

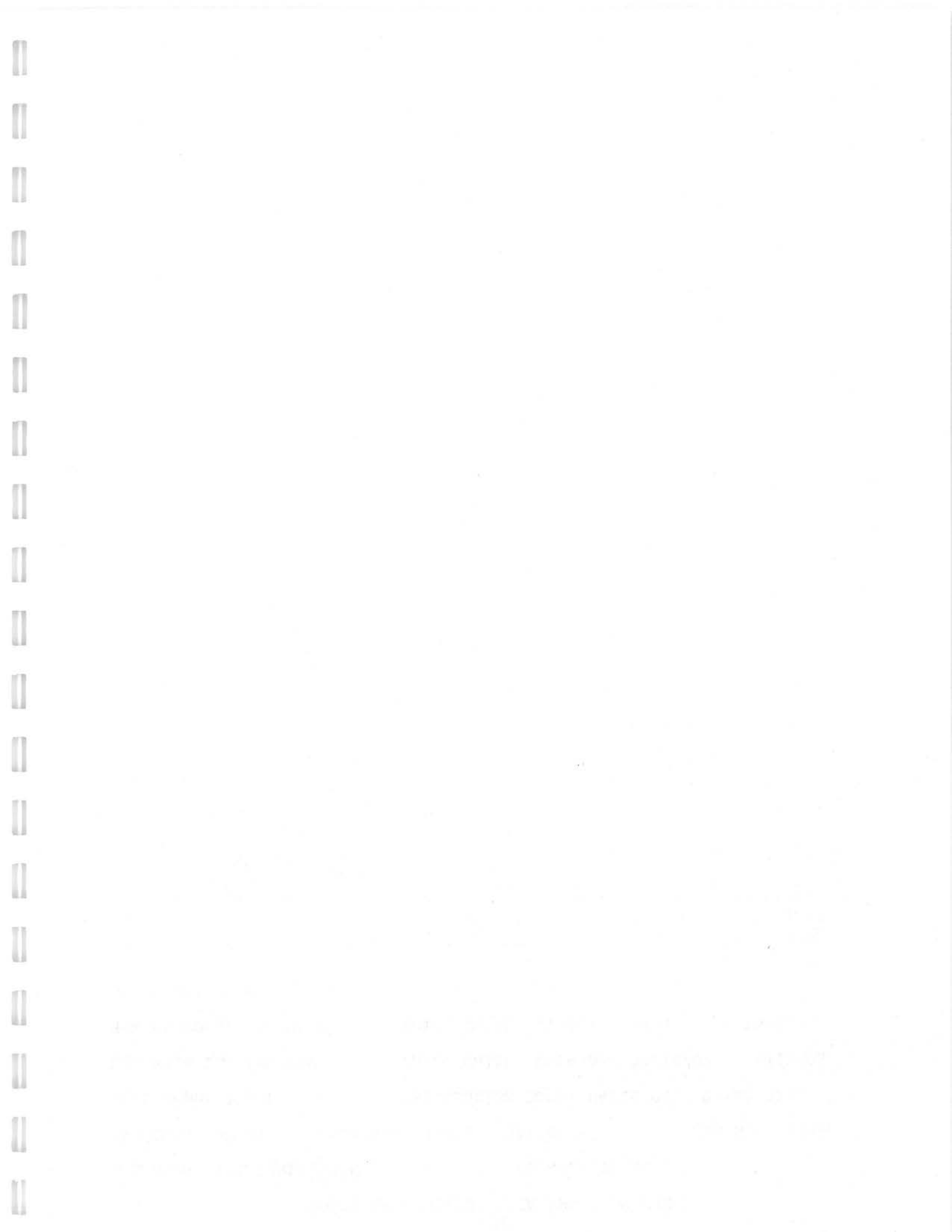
COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
1,4-Dioxane	0.002	0.002	0.01	0.0	20.0
1,4-Dichloromethane	0.653	0.613	0.01	6.1	20.0
Bromodichloromethane	0.204	0.205	0.01	0.5	20.0
cis-1,3-Dichloropropene	0.596	0.612	0.01	2.7	20.0
4-Methyl-2-pentanone	0.360	0.319	0.01	11.4	20.0
Toluene	0.809	0.803	0.01	0.7	20.0
trans-1,3-Dichloropropene	0.567	0.650	0.01	14.6	20.0
Ethyl Methacrylate	0.443	0.430	0.01	2.9	20.0
1,1,2-Trichloroethane	0.363	0.402	0.01	10.7	20.0
Tetrachloroethene	0.581	0.514	0.01	11.5	20.0
2-Hexanone	0.248	0.255	0.01	2.8	20.0
Dibromochloromethane	0.646	0.662	0.01	2.5	20.0
1,2-Dibromomethane	0.583	0.647	0.01	11.0	20.0
Chlorobenzene	1.013	0.989	0.3	2.4	20.0
1,1,1,2-Tetrachloroethane	0.470	0.499	0.01	6.2	20.0
Ethylbenzene	1.620	1.575	0.01	2.8	20.0
Xylene (m,p)	0.651	0.630	0.01	3.2	20.0
Xylene (total)	0.616	0.606	0.01	1.6	20.0
Xylene (o)	0.616	0.606	0.01	1.6	20.0
Styrene	0.991	0.962	0.01	2.9	20.0
Bromoforn	0.423	0.384	0.1	9.2	20.0
Isopropylbenzene	2.973	2.950	0.01	0.8	20.0
cis-1,4-Dichloro-2-butene	0.277	0.258	0.01	6.8	20.0
1,1,2,2-Tetrachloroethane	1.296	1.370	0.3	5.7	20.0
1,2,3-Trichloropropene	0.284	0.306	0.01	7.7	20.0
trans-1,4-Dichloro-2-butene	0.259	0.229	0.01	11.6	20.0
1,3-Dichlorobenzene	1.484	1.509	0.01	1.7	20.0
1,4-Dichlorobenzene	1.685	1.749	0.01	3.8	20.0
1,2-Dichlorobenzene	1.429	1.464	0.01	2.4	20.0
1,2-Dibromo-3-Chloropropane	0.254	0.260	0.01	2.4	20.0
1,2,4-Trichlorobenzene	0.928	1.064	0.01	14.6	20.0
Hexachlorobutadiene	0.538	0.686	0.01	27.5	20.0
Naphthalene	1.739	2.012	0.01	15.7	20.0
2,2-Dichloropropane	0.513	0.548	0.01	6.8	20.0
1,1-Dichloropropene	0.564	0.547	0.01	3.0	20.0
1,3-Dichloropropane	0.702	0.785	0.01	11.8	20.0
Bromobenzene	0.875	0.903	0.01	3.2	20.0

VOLATILE CONTINUING CALIBRATION CHECK

FORM 7

Lab Name: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428  
 Instrument ID: L Calibration Date: 04/15/02 Time: 1140  
 Lab File ID: LW10BV Init. Calib. Date(s): 04/12/02 04/12/02  
 Heated Purge: (Y/N) N Init. Calib. Times: 1350 1544  
 GC Column: CAP ID: 0.53 (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
n-Propylbenzene	0.784	0.804	0.01	2.6	20.0
2-Chlorotoluene	0.750	0.756	0.01	0.8	20.0
4-Chlorotoluene	0.756	0.762	0.01	0.8	20.0
1,3,5-Trimethylbenzene	2.179	2.191	0.01	0.6	20.0
tert-Butylbenzene	2.844	2.977	0.01	4.7	20.0
1,2,4-Trimethylbenzene	2.164	2.221	0.01	2.6	20.0
sec-Butylbenzene	3.418	3.509	0.01	2.7	20.0
4-Isopropyltoluene	2.586	2.741	0.01	6.0	20.0
n-Butylbenzene	2.582	2.846	0.01	10.2	20.0
1,2,3-Trichlorobenzene	0.840	0.949	0.01	13.0	20.0
===== Toluene-d8	1.122	1.116	0.01	0.5	20.0
1,2-Dichloroethane-d4	0.382	0.337	0.01	11.8	20.0
Bromofluorobenzene	1.386	1.450	0.01	4.6	20.0
1,2-Dichlorobenzene-d4	0.927	0.938	0.01	1.2	20.0





FORM 8  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428  
 Lab File ID (Standard): LMU10BV Date Analyzed: 04/15/02  
 Instrument ID: L Time Analyzed: 1140  
 GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

IS1	IS2 (CBZ)	IS3 (DCB)	RT #	AREA #	RT #	AREA #	RT #	AREA #
12 HOUR STD	322307	14.82	182099	187140	14.81	187140	19.50	19.50
UPPER LIMIT	644614	15.32	364198	171624	14.81	190006	19.50	19.50
LOWER LIMIT	161154	14.32	91050	148575	14.82	148575	19.50	19.50
CLIENT								
SAMPLE NO.								
01	328213	14.81	187140	387832	9.11	387832	19.50	19.50
02	324258	14.81	190006	365836	9.11	365836	19.50	19.50
03	321408	14.81	171624	369044	9.12	369044	19.50	19.50
04	280929	14.82	148575	331028	9.12	331028	19.50	19.50
05	287399	14.81	145578	336175	9.12	336175	19.50	19.50
06	272940	14.82	143554	307197	9.12	307197	19.50	19.51
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

IS1 = Fluorobenzene  
 IS2 (CBZ) = Chlorobenzene-d5  
 IS3 (DCB) = 1,4-Dichlorobenzene-d4  
 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.

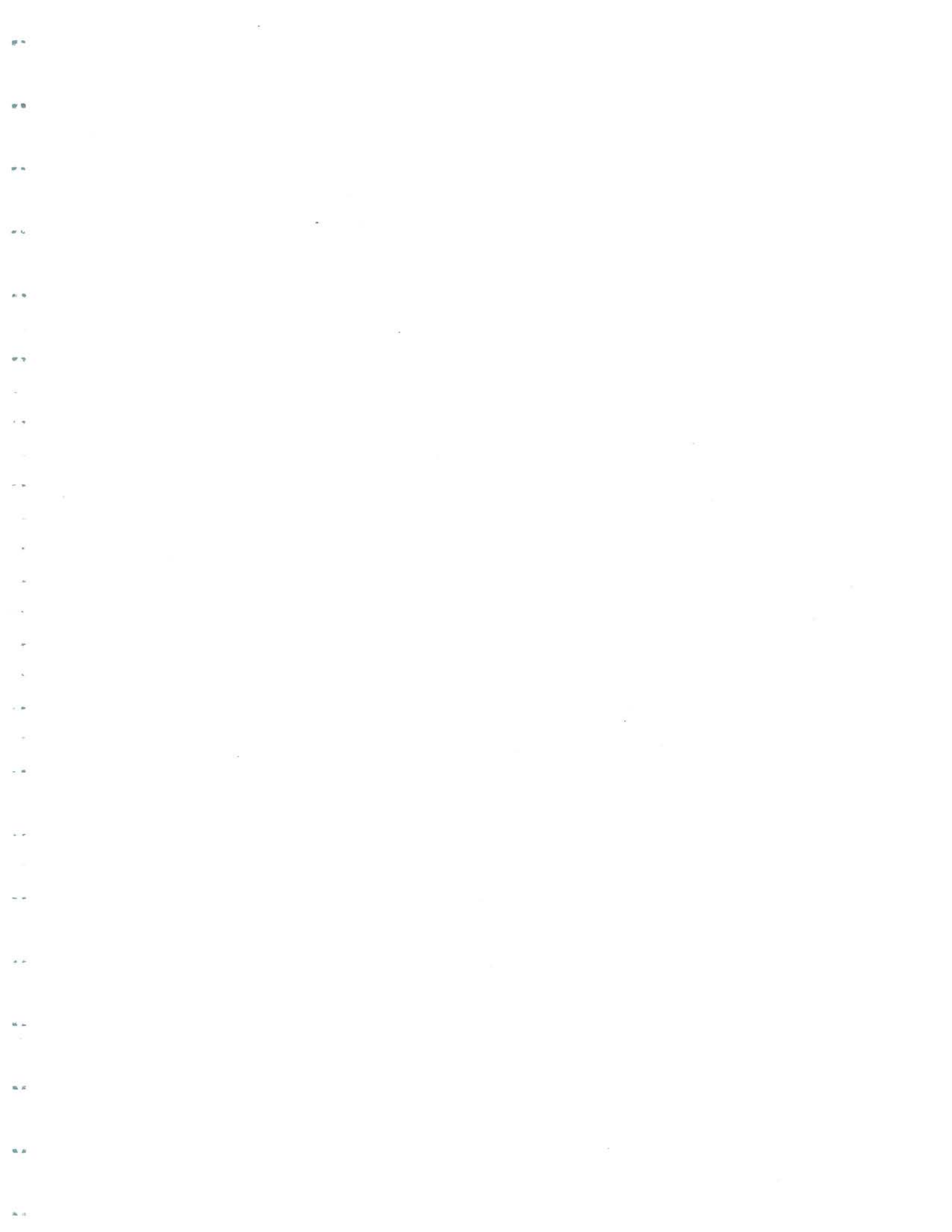




**SAMPLE DATA SUMMARY PACKAGE**  
**FOR** 524.2

**Severn Trent Laboratories, Inc.**





ARD2168

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483238

Matrix: (soil/water) WATER

Lab File ID: 483238D2

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 16.9

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

8.4 U	Dichlorodifluoromethane	75-71-8
8.4 U	Chloromethane	74-87-3
8.4 U	Vinyl Chloride	75-01-4
8.4 U	Bromomethane	74-83-9
8.4 U	Chloroethane	75-00-3
8.4 U	Trichlorofluoromethane	75-69-4
8.4 U	Diethyl Ether	60-29-7
8.4 U	1,1-Dichloroethene	75-35-4
8.4 U	Acetone	67-64-1
8.4 U	Methyl Iodide	74-88-4
8.4 U	Carbon Disulfide	75-15-0
8.4 U	Allyl Chloride	107-05-1
8.4 U	Methylene Chloride	75-09-2
8.4 U	Acrylonitrile	107-13-1
8.4 U	trans-1,2-Dichloroethene	156-60-5
8.4 U	Methyl-t-Butyl Ether	1634-04-4
370	1,1-Dichloroethane	75-34-3
8.4 U	2,2-Dichloropropane	594-20-7
8.4 U	cis-1,2-Dichloroethene	156-59-2
8.4 U	2-Butanone	78-93-3
420 U	Propionitrile	107-12-0
8.4 U	Methyl Acrylate	96-33-3
8.4 U	Bromochloromethane	74-97-5
8.4 U	Methacrylonitrile	126-98-7
42 U	Tetrahydrofuran	109-99-9
8.4 U	Chloroform	67-66-3
8.4 U	1,1,1-Trichloroethane	71-55-6
8.4 U	1-Chlorobutane	109-69-3
8.4 U	Carbon Tetrachloride	56-23-5
8.4 U	1,1-Dichloropropene	563-58-6
8.4 U	Benzene	71-43-2
8.4 U	1,2-Dichloroethane	107-06-2
8.4 U	Trichloroethene	79-01-6

ARD2168

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLV7

Lab Sample ID: 483238

Matrix: (soil/water) WATER

Lab File ID: 483238D2

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 16.9

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

8.4	U	Dibromomethane	74-95-3
8.4	U	1,2-Dichloropropane	78-87-5
8.4	U	Methyl Methacrylate	80-62-6
8.4	U	Bromodichloromethane	75-27-4
420	U	Chloroacetoneitrile	107-14-2
8.4	U	cis-1,3-Dichloropropene	10061-01-5
420	U	1,1-Dichloropropane	513-88-2
42	U	4-Methyl-2-Pentanone	108-10-1
420	U	2-Nitropropane	79-46-9
8.4	U	Toluene	108-88-3
8.4	U	trans-1,3-Dichloropropene	10061-02-6
8.4	U	Ethyl Methacrylate	97-63-2
8.4	U	1,1,2-Trichloroethane	79-00-5
8.4	U	Tetrachloroethene	127-18-4
8.4	U	1,3-Dichloropropane	142-28-9
8.4	U	2-Hexanone	591-78-6
8.4	U	Dibromochloromethane	124-48-1
8.4	U	1,2-Dibromoethane	106-93-4
8.4	U	Chlorobenzene	108-90-7
8.4	U	1,1,1,2-Tetrachloroethane	630-20-6
8.4	U	Ethylbenzene	100-41-4
8.4	U	m- & p-Xylene	1330-20-7
8.4	U	o-Xylene	95-47-6
8.4	U	Styrene	100-42-5
8.4	U	Bromofom	75-25-2
8.4	U	Xylene (total)	1330-20-7
8.4	U	Isopropylbenzene	98-82-8
8.4	U	Bromobenzene	108-86-1
8.4	U	1,1,2,2-Tetrachloroethane	79-34-5
8.4	U	1,2,3-Trichloropropane	96-18-4
8.4	U	trans-1,4-Dichloro-2-butene	110-57-6
8.4	U	2-Chlorotoluene	95-49-8
8.4	U	4-Chlorotoluene	106-43-4

ARD2168

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483238

Matrix: (soil/water) WATER

Lab File ID: 483238D2

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 16.9

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

8.4 U	n-Propylbenzene	103-65-1
8.4 U	1,3,5-Trimethylbenzene	108-67-8
8.4 U	Pentachloroethane	76-01-7
8.4 U	tert-Butylbenzene	98-06-6
8.4 U	1,2,4-Trimethylbenzene	95-63-6
8.4 U	sec-Butylbenzene	135-98-8
8.4 U	1,3-Dichlorobenzene	541-73-1
8.4 U	p-Isopropyltoluene	99-87-6
8.4 U	1,4-Dichlorobenzene	106-46-7
8.4 U	1,2-Dichlorobenzene	95-50-1
8.4 U	n-Butylbenzene	104-51-8
8.4 U	Hexachloroethane	67-72-1
8.4 U	1,2-Dibromo-3-Chloropropane	96-12-8
8.4 U	Nitrobenzene	98-95-3
420 U	1,2,4-Trichlorobenzene	120-82-1
8.4 U	Hexachlorobutadiene	87-68-3
8.4 U	Naphthalene	91-20-3
8.4 U	1,2,3-Trichlorobenzene	87-61-6



ARD2169

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLV

Lab Sample ID: 483239

Matrix: (soil/water) WATER

Lab File ID: 483239

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50 U	Dichlorodifluoromethane	75-71-8
0.50 U	Chloromethane	74-87-3
0.50 U	Vinyl Chloride	75-01-4
0.50 U	Bromomethane	74-83-9
0.50 U	Chloroethane	75-00-3
0.50 U	Trichlorofluoromethane	75-69-4
0.50 U	Diethyl Ether	60-29-7
0.50 U	1,1-Dichloroethene	75-35-4
5.0 U	Acetone	67-64-1
0.50 U	Methyl Iodide	74-88-4
0.50 U	Carbon Disulfide	75-15-0
0.50 U	Allyl Chloride	107-05-1
0.50 U	Methylene Chloride	75-09-2
0.50 U	Acrylonitrile	107-13-1
0.50 U	trans-1,2-Dichloroethene	156-60-5
0.50 U	Methyl-t-Butyl Ether	1634-04-4
0.50 U	1,1-Dichloroethane	75-34-3
0.50 U	2,2-Dichloropropane	594-20-7
0.50 U	cis-1,2-Dichloroethene	156-59-2
5.0 U	2-Butanone	78-93-3
25 U	Propionitrile	107-12-0
0.50 U	Methyl Acrylate	96-33-3
0.50 U	Bromochloromethane	74-97-5
0.50 U	Methacrylonitrile	126-98-7
2.5 U	Tetrahydrofuran	109-99-9
0.46 U	Chloroform	67-66-3
0.50 U	1,1,1-Trichloroethane	71-55-6
0.50 U	1-Chlorobutane	109-69-3
0.50 U	Carbon Tetrachloride	56-23-5
0.50 U	1,1-Dichloropropene	563-58-6
0.50 U	Benzene	71-43-2
0.50 U	1,2-Dichloroethane	107-06-2
0.50 U	Trichloroethene	79-01-6



ARD2169

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Lab Code: STLVT

Case No.: 98011

Matrix: (soil/water) WATER

Lab Sample ID: 483239

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

Lab File ID: 483239

Level: (low/med) LOW

Date Received: 04/11/02

% Moisture: not dec.

Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

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CAS NO.	COMPOUND	CONCENTRATION UNITS
74-95-3	Dibromomethane	0.50 U
78-87-5	1,2-Dichloropropane	0.50 U
80-62-6	Methyl Methacrylate	0.50 U
75-27-4	Bromodichloromethane	0.50 U
107-14-2	Chloroacetone trile	25 U
10061-01-5	cis-1,3-Dichloropropene	0.50 U
513-88-2	1,1-Dichloropropane	25 U
108-10-1	4-Methyl-2-Pentanone	2.5 U
79-46-9	2-Nitropropane	25 U
108-88-3	Toluene	0.50 U
10061-02-6	trans-1,3-Dichloropropene	0.50 U
97-63-2	Ethyl Methacrylate	0.50 U
79-00-5	1,1,2-Trichloroethane	0.50 U
127-18-4	Tetrachloroethene	0.50 U
142-28-9	1,3-Dichloropropane	0.50 U
591-78-6	2-Hexanone	2.5 U
124-48-1	Dibromochloromethane	0.50 U
106-93-4	1,2-Dibromomethane	0.50 U
108-90-7	Chlorobenzene	0.50 U
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U
100-41-4	Ethylbenzene	0.50 U
1330-20-7	m- & p-Xylene	0.50 U
95-47-6	o-Xylene	0.50 U
100-42-5	Styrene	0.50 U
75-25-2	Bromoforn	0.50 U
1330-20-7	Xylene (total)	0.50 U
98-82-8	Isopropylbenzene	0.50 U
108-86-1	Bromobenzene	0.50 U
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U
96-18-4	1,2,3-Trichloropropane	0.50 U
110-57-6	trans-1,4-Dichloro-2-butene	0.50 U
95-49-8	2-Chlorotoluene	0.50 U
106-43-4	4-Chlorotoluene	0.50 U

ARD2169

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483239

Matrix: (soil/water) WATER

Lab File ID: 483239

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

COMPOUND

CAS NO.

0.50 U	n-Propylbenzene	103-65-1
0.50 U	1,3,5-Trimethylbenzene	108-67-8
0.50 U	Pentachloroethane	76-01-7
0.50 U	tert-Butylbenzene	98-06-6
0.50 U	1,2,4-Trimethylbenzene	95-63-6
0.50 U	sec-Butylbenzene	135-98-8
0.50 U	1,3-Dichlorobenzene	541-73-1
0.50 U	p-Isopropyltoluene	99-87-6
0.50 U	1,4-Dichlorobenzene	106-46-7
0.50 U	1,2-Dichlorobenzene	95-50-1
0.50 U	n-Butylbenzene	104-51-8
0.50 U	Hexachloroethane	67-72-1
0.50 U	1,2-Dibromo-3-chloropropane	96-12-8
0.25 U	Nitrobenzene	98-95-3
0.50 U	1,2,4-Trichlorobenzene	120-82-1
0.50 U	Hexachlorobutadiene	87-68-3
0.50 U	Naphthalene	91-20-3
0.50 U	1,2,3-Trichlorobenzene	87-61-6

ARD2170

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483240

Matrix: (soil/water) WATER

Lab File ID: 483240

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

ID: 0.53 (mm)

GC Column: CAP

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

COMPOUND

CAS NO.

0.50 U	Dichlorodifluoromethane	75-71-8
0.50 U	Chloromethane	74-87-3
0.50 U	Vinyl chloride	75-01-4
0.50 U	Bromomethane	74-83-9
0.50 U	Chloroethane	75-00-3
0.50 U	Trichlorofluoromethane	75-69-4
0.50 U	Diethyl Ether	60-29-7
0.50 U	1,1-Dichloroethene	75-35-4
5.0 U	Acetone	67-64-1
0.50 U	Methyl Iodide	74-88-4
0.50 U	Carbon Disulfide	75-15-0
0.50 U	Allyl Chloride	107-05-1
0.50 U	Methylene Chloride	75-09-2
0.50 U	Acrylonitrile	107-13-1
0.50 U	trans-1,2-Dichloroethene	156-60-5
0.50 U	Methyl-t-Butyl Ether	1634-04-4
0.50 U	1,1-Dichloroethane	75-34-3
0.50 U	2,2-Dichloropropane	594-20-7
0.50 U	cis-1,2-Dichloroethene	156-59-2
5.0 U	2-Butanone	78-93-3
0.25 U	Propionitrile	107-12-0
0.50 U	Methyl Acrylate	96-33-3
0.50 U	Bromochloromethane	74-97-5
0.50 U	Methacrylonitrile	126-98-7
2.5 U	Tetrahydrofuran	109-99-9
0.48 U	Chloroform	67-66-3
0.50 U	1,1,1-Trichloroethane	71-55-6
0.50 U	1-Chlorobutane	109-69-3
0.50 U	Carbon Tetrachloride	56-23-5
0.50 U	1,1-Dichloropropene	563-58-6
0.50 U	Benzene	71-43-2
0.50 U	1,2-Dichloroethane	107-06-2
0.50 U	Trichloroethene	79-01-6

VOLATILE ORGANICS ANALYSIS DATA SHEET

ARD2170

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483240

Matrix: (soil/water) WATER

Lab File ID: 483240

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50	U	Dibromomethane	74-95-3
0.50	U	1,2-Dichloropropane	78-87-5
0.50	U	Methyl Methacrylate	80-62-6
0.50	U	Bromodichloromethane	75-27-4
25	U	Chloroacetonitrile	107-14-2
0.50	U	cis-1,3-Dichloropropene	10061-01-5
25	U	1,1-Dichloropropanone	513-88-2
2.5	U	4-Methyl-2-Pentanone	108-10-1
25	U	2-Nitropropane	79-46-9
0.50	U	Toluene	108-88-3
0.50	U	trans-1,3-Dichloropropene	10061-02-6
0.50	U	Ethyl Methacrylate	97-63-2
0.50	U	1,1,2-Trichloroethane	79-00-5
0.50	U	Tetrachloroethene	127-18-4
0.50	U	1,3-Dichloropropane	142-28-9
2.5	U	2-Hexanone	591-78-6
0.50	U	Dibromochloromethane	124-48-1
0.50	U	1,2-Dibromoethane	106-93-4
0.50	U	Chlorobenzene	108-90-7
0.50	U	1,1,1,2-Tetrachloroethane	630-20-6
0.50	U	Ethylbenzene	100-41-4
0.50	U	m- & p-Xylene	1330-20-7
0.50	U	o-Xylene	95-47-6
0.50	U	Styrene	100-42-5
0.50	U	Bromoform	75-25-2
0.50	U	Xylene (total)	1330-20-7
0.50	U	Isopropylbenzene	98-82-8
0.50	U	Bromobenzene	108-86-1
0.50	U	1,1,2,2-Tetrachloroethane	79-34-5
0.50	U	1,2,3-Trichloropropane	96-18-4
0.50	U	trans-1,4-Dichloro-2-butene	110-57-6
0.50	U	2-Chlorotoluene	95-49-8
0.50	U	4-Chlorotoluene	106-43-4

ARD2170

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483240

Matrix: (soil/water) WATER

Lab File ID: 483240

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO.

COMPOUND

0.50 U	n-Propylbenzene	103-65-1
0.50 U	-1,3,5-Trimethylbenzene	108-67-8
0.50 U	Pentachloroethane	76-01-7
0.50 U	tert-Butylbenzene	98-06-6
0.50 U	-1,2,4-Trimethylbenzene	95-63-6
0.50 U	sec-Butylbenzene	135-98-8
0.50 U	-1,3-Dichlorobenzene	541-73-1
0.50 U	p-Isopropyltoluene	99-87-6
0.50 U	-1,4-Dichlorobenzene	106-46-7
0.50 U	-1,2-Dichlorobenzene	95-50-1
0.50 U	n-Butylbenzene	104-51-8
0.50 U	Hexachloroethane	67-72-1
0.50 U	-1,2-Dibromo-3-Chloropropane	96-12-8
0.50 U	Nitrobenzene	98-95-3
25 U	-1,2,4-Trichlorobenzene	120-82-1
0.50 U	Hexachlorobutadiene	87-68-3
0.50 U	Naphthalene	91-20-3
0.50 U	-1,2,3-Trichlorobenzene	87-61-6

FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

ARD2172

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483242

Matrix: (soil/water) WATER

Lab File ID: 483242

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50	Dichlorodifluoromethane	75-71-8
0.50	Chloromethane	74-87-3
0.50	Vinyl Chloride	75-01-4
0.50	Bromomethane	74-83-9
0.50	Chloroethane	75-00-3
0.50	Trichlorofluoromethane	75-69-4
0.50	Diethyl Ether	60-29-7
0.50	1,1-Dichloroethene	75-35-4
5.0	Acetone	67-64-1
0.50	Methyl Iodide	74-88-4
0.50	Carbon Disulfide	75-15-0
0.50	Allyl Chloride	107-05-1
0.50	Methylene Chloride	75-09-2
0.50	Acrylonitrile	107-13-1
0.50	trans-1,2-Dichloroethene	156-60-5
0.50	Methyl-t-Butyl Ether	1634-04-4
0.50	1,1-Dichloroethane	75-34-3
0.50	2,2-Dichloropropane	594-20-7
0.50	cis-1,2-Dichloroethene	156-59-2
5.0	2-Butanone	78-93-3
0.50	Propionitrile	107-12-0
0.50	Methyl Acrylate	96-33-3
0.50	Bromochloromethane	74-97-5
0.50	Methacrylonitrile	126-98-7
2.5	Tetrahydrofuran	109-99-9
0.50	Chloroform	67-66-3
0.50	1,1,1-Trichloroethane	71-55-6
0.50	1-Chlorobutane	109-69-3
0.50	Carbon Tetrachloride	56-23-5
0.50	1,1-Dichloropropene	563-58-6
0.50	Benzene	71-43-2
0.50	1,2-Dichloroethane	107-06-2
0.50	Trichloroethene	79-01-6



ARD2172

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483242

Matrix: (soil/water) WATER

Lab File ID: 483242

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50 U	Dibromomethane	74-95-3
0.50 U	1,2-Dichloropropane	78-87-5
0.50 U	Methyl Methacrylate	80-62-6
0.50 U	Bromodichloromethane	75-27-4
0.50 U	Chloroacetonitrile	107-14-2
25 U	cis-1,3-Dichloropropene	10061-01-5
0.50 U	1,1-Dichloropropane	513-88-2
25 U	4-Methyl-2-Pentanone	108-10-1
2.5 U	2-Nitropropane	79-46-9
25 U	Toluene	108-88-3
0.50 U	trans-1,3-Dichloropropene	10061-02-6
0.50 U	Ethyl Methacrylate	97-63-2
0.50 U	1,1,2-Trichloroethane	79-00-5
0.50 U	Tetrachloroethene	127-18-4
0.50 U	1,3-Dichloropropane	142-28-9
0.50 U	2-Hexanone	591-78-6
2.5 U	Dibromochloromethane	124-48-1
0.50 U	1,2-Dibromoethane	106-93-4
0.50 U	Chlorobenzene	108-90-7
0.50 U	1,1,1,2-Tetrachloroethane	630-20-6
0.50 U	Ethylbenzene	100-41-4
0.50 U	m- & p-Xylene	1330-20-7
0.50 U	o-Xylene	95-47-6
0.50 U	Styrene	100-42-5
0.50 U	Bromoforn	75-25-2
0.50 U	Xylene (total)	1330-20-7
0.50 U	Isopropylbenzene	98-82-8
0.50 U	Bromobenzene	108-86-1
0.50 U	1,1,2,2-Tetrachloroethane	79-34-5
0.50 U	1,2,3-Trichloropropane	96-18-4
0.50 U	trans-1,4-Dichloro-2-butene	110-57-6
0.50 U	2-Chlorotoluene	95-49-8
0.50 U	4-Chlorotoluene	106-43-4

ARD2172

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483242

Matrix: (soil/water) WATER

Lab File ID: 483242

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

COMPOUND

CAS NO.

0.50	U	n-Propylbenzene	103-65-1
0.50	U	-1,3,5-Trimethylbenzene	108-67-8
0.50	U	Pentachloroethane	76-01-7
0.50	U	tert-Butylbenzene	98-06-6
0.50	U	-1,2,4-Trimethylbenzene	95-63-6
0.50	U	sec-Butylbenzene	135-98-8
0.50	U	-1,3-Dichlorobenzene	541-73-1
0.50	U	p-Isopropyltoluene	99-87-6
0.50	U	-1,4-Dichlorobenzene	106-46-7
0.50	U	-1,2-Dichlorobenzene	95-50-1
0.50	U	n-Butylbenzene	104-51-8
0.50	U	Hexachloroethane	67-72-1
0.50	U	-1,2-Dibromo-3-Chloropropane	96-12-8
25	U	Nitrobenzene	98-95-3
0.50	U	-1,2,4-Trichlorobenzene	120-82-1
0.50	U	Hexachlorobutadiene	87-68-3
0.50	U	Naphthalene	91-20-3
0.50	U	-1,2,3-Trichlorobenzene	87-61-6



ARD2173

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER Lab Sample ID: 483243

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 483243

Level: (low/med) LOW Date Received: 04/11/02

% Moisture: not dec. Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

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

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

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

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
60-29-7	Diethyl Ether	0.50 U
75-35-4	1,1-Dichloroethene	0.50 U
67-64-1	Acetone	5.0 U
74-88-4	Methyl Iodide	0.50 U
75-15-0	Carbon Disulfide	0.50 U
107-05-1	Allyl Chloride	0.50 U
75-09-2	Methylene Chloride	0.50 U
107-13-1	Acrylonitrile	0.50 U
156-60-5	trans-1,2-Dichloroethene	0.50 U
1634-04-4	Methyl-t-Butyl Ether	0.50 U
75-34-3	1,1-Dichloroethane	0.50 U
594-20-7	2,2-Dichloropropane	0.50 U
156-59-2	cis-1,2-Dichloroethene	1.1 U
78-93-3	2-Butanone	5.0 U
107-12-0	Propionitrile	25 U
96-33-3	Methyl Acrylate	0.50 U
74-97-5	Bromochloromethane	0.50 U
126-98-7	Methacrylonitrile	0.50 U
109-99-9	Tetrahydrofuran	2.5 U
67-66-3	Chloroform	0.50 U
71-55-6	1,1,1-Trichloroethane	0.50 U
109-69-3	1-Chlorobutane	0.50 U
56-23-5	Carbon Tetrachloride	0.50 U
563-58-6	1,1-Dichloropropene	0.50 U
71-43-2	Benzene	0.50 U
107-06-2	1,2-Dichloroethane	0.50 U
79-01-6	Trichloroethene	0.50 U

ARD2173

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483243

Matrix: (soil/water) WATER

Lab File ID: 483243

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50	U	Dibromomethane	74-95-3
0.50	U	1,2-Dichloropropane	78-87-5
0.50	U	Methyl Methacrylate	80-62-6
0.50	U	Bromodichloromethane	75-27-4
0.50	U	Chloroacetoneitrile	107-14-2
0.50	U	cis-1,3-Dichloropropene	10061-01-5
0.50	U	1,1-Dichloropropane	513-88-2
2.5	U	4-Methyl-2-Pentanone	108-10-1
2.5	U	2-Nitropropane	79-46-9
0.50	U	Toluene	108-88-3
0.50	U	trans-1,3-Dichloropropene	10061-02-6
0.50	U	Ethyl Methacrylate	97-63-2
0.50	U	1,1,2-Trichloroethane	79-00-5
0.50	U	Tetrachloroethene	127-18-4
0.50	U	1,3-Dichloropropane	142-28-9
2.5	U	2-Hexanone	591-78-6
0.50	U	Dibromochloromethane	124-48-1
0.50	U	1,2-Dibromoethane	106-93-4
0.50	U	Chlorobenzene	108-90-7
0.50	U	1,1,1,2-Tetrachloroethane	630-20-6
0.50	U	Ethylbenzene	100-41-4
0.50	U	m- & p-Xylene	1330-20-7
0.50	U	o-Xylene	95-47-6
0.50	U	Styrene	100-42-5
0.50	U	Bromofom	75-25-2
0.50	U	Xylene (total)	1330-20-7
0.50	U	Isopropylbenzene	98-82-8
0.50	U	Bromobenzene	108-86-1
0.50	U	1,1,2,2-Tetrachloroethane	79-34-5
0.50	U	1,2,3-Trichloropropane	96-18-4
0.50	U	trans-1,4-Dichloro-2-butene	110-57-6
0.50	U	2-Chlorotoluene	95-49-8
0.50	U	4-Chlorotoluene	106-43-4

ARD2173

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLV

Lab Sample ID: 483243

Matrix: (soil/water) WATER

Lab File ID: 483243

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50 U	n-Propylbenzene	103-65-1
0.50 U	1,3,5-Trimethylbenzene	108-67-8
0.50 U	Pentachloroethane	76-01-7
0.50 U	tert-Butylbenzene	98-06-6
0.50 U	1,2,4-Trimethylbenzene	95-63-6
0.50 U	sec-Butylbenzene	135-98-8
0.50 U	1,3-Dichlorobenzene	541-73-1
0.50 U	p-Isopropyltoluene	99-87-6
0.50 U	1,4-Dichlorobenzene	106-46-7
0.50 U	1,2-Dichlorobenzene	95-50-1
0.50 U	n-Butylbenzene	104-51-8
0.50 U	Hexachloroethane	67-72-1
0.50 U	1,2-Dibromo-3-Chloropropane	96-12-8
0.50 U	Nitrobenzene	98-95-3
25 U	1,2,4-Trichlorobenzene	120-82-1
0.50 U	Hexachlorobutadiene	87-68-3
0.50 U	Naphthalene	91-20-3
0.50 U	1,2,3-Trichlorobenzene	87-61-6

TR0035

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483255

Matrix: (soil/water) WATER

Lab File ID: 483255

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50 U	Dichlorodifluoromethane	75-71-8
0.50 U	Chloromethane	74-87-3
0.50 U	Vinyl Chloride	75-01-4
0.50 U	Bromomethane	74-83-9
0.50 U	Chloroethane	75-00-3
0.50 U	Trichlorofluoromethane	75-69-4
0.50 U	Diethyl Ether	60-29-7
0.50 U	1,1-Dichloroethene	75-35-4
5.0 U	Acetone	67-64-1
0.50 U	Methyl Iodide	74-88-4
0.50 U	Carbon Disulfide	75-15-0
0.50 U	Allyl Chloride	107-05-1
0.50 U	Methylene Chloride	75-09-2
0.50 U	Acrylonitrile	107-13-1
0.50 U	trans-1,2-Dichloroethene	156-60-5
0.50 U	Methyl-t-Butyl Ether	1634-04-4
0.50 U	1,1-Dichloroethane	75-34-3
594-20-7	2,2-Dichloropropane	594-20-7
156-59-2	cis-1,2-Dichloroethene	156-59-2
78-93-3	2-Butanone	78-93-3
107-12-0	Propionitrile	107-12-0
0.50 U	Methyl Acrylate	96-33-3
0.50 U	Bromochloromethane	74-97-5
126-98-7	Methacrylonitrile	126-98-7
109-99-9	Tetrahydrofuran	109-99-9
67-66-3	Chloroform	67-66-3
71-55-6	1,1,1-Trichloroethane	71-55-6
109-69-3	1-Chlorobutane	109-69-3
56-23-5	Carbon Tetrachloride	56-23-5
563-58-6	1,1-Dichloropropene	563-58-6
71-43-2	Benzene	71-43-2
107-06-2	1,2-Dichloroethane	107-06-2
79-01-6	Trichloroethene	79-01-6

TR0035

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER Lab Sample ID: 483255

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 483255

Level: (low/med) LOW Date Received: 04/11/02

% Moisture: not dec. Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

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

74-95-3	Dibromomethane	0.50 U
78-87-5	1,2-Dichloropropane	0.50 U
80-62-6	Methyl Methacrylate	0.50 U
75-27-4	Bromodichloromethane	0.50 U
107-14-2	Chloroacetoneitrile	25 U
10061-01-5	cis-1,3-Dichloropropene	0.50 U
513-88-2	1,1-Dichloropropane	25 U
108-10-1	4-Methyl-2-Pentanone	2.5 U
79-46-9	2-Nitropropane	25 U
108-88-3	Toluene	0.50 U
10061-02-6	trans-1,3-Dichloropropene	0.50 U
97-63-2	Ethyl Methacrylate	0.50 U
79-00-5	1,1,2-Trichloroethane	0.50 U
127-18-4	Tetrachloroethene	0.50 U
142-28-9	1,3-Dichloropropane	0.50 U
591-78-6	2-Hexanone	2.5 U
124-48-1	Dibromochloromethane	0.50 U
106-93-4	1,2-Dibromomethane	0.50 U
108-90-7	Chlorobenzene	0.50 U
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U
100-41-4	Ethylbenzene	0.50 U
1330-20-7	m- & p-Xylene	0.50 U
95-47-6	o-Xylene	0.50 U
100-42-5	Styrene	0.50 U
75-25-2	Bromoforn	0.50 U
1330-20-7	Xylene (total)	0.50 U
98-82-8	Isopropylbenzene	0.50 U
108-86-1	Bromobenzene	0.50 U
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U
96-18-4	1,2,3-Trichloropropane	0.50 U
110-57-6	trans-1,4-Dichloro-2-butene	0.50 U
95-49-8	2-Chlorotoluene	0.50 U
106-43-4	4-Chlorotoluene	0.50 U

TR0035

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483255

Matrix: (soil/water) WATER

Lab File ID: 483255

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

Date Received: 04/11/02

Level: (Low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50 U	n-Propylbenzene	103-65-1
0.50 U	1,3,5-Trimethylbenzene	108-67-8
0.50 U	Pentachloroethane	76-01-7
0.50 U	tert-Butylbenzene	98-06-6
0.50 U	1,2,4-Trimethylbenzene	95-63-6
0.50 U	sec-Butylbenzene	135-98-8
0.50 U	1,3-Dichlorobenzene	541-73-1
0.50 U	p-Isopropyltoluene	99-87-6
0.50 U	1,4-Dichlorobenzene	106-46-7
0.50 U	1,2-Dichlorobenzene	95-50-1
0.50 U	n-Butylbenzene	104-51-8
0.50 U	Hexachloroethane	67-72-1
0.50 U	1,2-Dibromo-3-Chloropropane	96-12-8
0.25 U	Nitrobenzene	98-95-3
0.50 U	1,2,4-Trichlorobenzene	120-82-1
0.50 U	Hexachlorobutadiene	87-68-3
0.50 U	Naphthalene	91-20-3
0.50 U	1,2,3-Trichlorobenzene	87-61-6



TR0036

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483256

Matrix: (soil/water) WATER

Lab File ID: 483256

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50 U	Dichlorodifluoromethane	75-71-8
0.50 U	Chloromethane	74-87-3
0.50 U	Vinyl Chloride	75-01-4
0.50 U	Bromomethane	74-83-9
0.50 U	Chloroethane	75-00-3
0.50 U	Trichlorofluoromethane	75-69-4
0.50 U	Diethyl Ether	60-29-7
0.50 U	1,1-Dichloroethene	75-35-4
5.0 U	Acetone	67-64-1
0.50 U	Methyl Iodide	74-88-4
0.50 U	Carbon Disulfide	75-15-0
0.50 U	Allyl Chloride	107-05-1
0.50 U	Methylene Chloride	75-09-2
0.50 U	Acrylonitrile	107-13-1
0.50 U	trans-1,2-Dichloroethene	156-60-5
0.50 U	Methyl-t-Butyl Ether	1634-04-4
0.50 U	1,1-Dichloroethane	75-34-3
0.50 U	2,2-Dichloropropane	594-20-7
0.50 U	cis-1,2-Dichloroethene	156-59-2
2.5 U	2-Butanone	78-93-3
0.50 U	Propionitrile	107-12-0
0.50 U	Methyl Acrylate	96-33-3
0.50 U	Bromochloromethane	74-97-5
0.50 U	Methacrylonitrile	126-98-7
0.50 U	Tetrahydrofuran	109-99-9
0.50 U	Chloroform	67-66-3
0.50 U	1,1,1-Trichloroethane	71-55-6
0.50 U	1-Chlorobutane	109-69-3
0.50 U	Carbon Tetrachloride	56-23-5
0.50 U	1,1-Dichloropropene	563-58-6
0.50 U	Benzene	71-43-2
0.50 U	1,2-Dichloroethane	107-06-2
0.50 U	Trichloroethene	79-01-6

TR0036

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER Lab Sample ID: 483256

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 483256

Level: (low/med) LOW Date Received: 04/11/02

% Moisture: not dec. Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm)

Soil Extract Volume: (uL)

Dilution Factor: 1.0

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

74-95-3	Dibromomethane	0.50
78-87-5	1,2-Dichloropropane	0.50
80-62-6	Methyl Methacrylate	0.50
75-27-4	Bromodichloromethane	0.50
107-14-2	Chloroacetone	25
10061-01-5	cis-1,3-Dichloropropene	0.50
513-88-2	1,1-Dichloropropane	25
108-10-1	4-Methyl-2-Pentanone	2.5
79-46-9	2-Nitropropane	25
108-88-3	Toluene	0.50
10061-02-6	trans-1,3-Dichloropropene	0.50
97-63-2	Ethyl Methacrylate	0.50
79-00-5	1,1,2-Trichloroethane	0.50
127-18-4	Tetrachloroethane	0.50
142-28-9	1,3-Dichloropropane	0.50
591-78-6	2-Hexanone	2.5
124-48-1	Dibromochloromethane	0.50
106-93-4	1,2-Dibromoethane	0.50
108-90-7	Chlorobenzene	0.50
630-20-6	1,1,1,2-Tetrachloroethane	0.50
100-41-4	Ethylbenzene	0.50
1330-20-7	m- & p-Xylene	0.50
95-47-6	o-Xylene	0.50
100-42-5	Styrene	0.50
75-25-2	Bromoforn	0.50
1330-20-7	Xylene (total)	0.50
98-82-8	Isopropylbenzene	0.50
108-86-1	Bromobenzene	0.50
79-34-5	1,1,2-Tetrachloroethane	0.50
96-18-4	1,2,3-Trichloropropane	0.50
110-57-6	trans-1,4-Dichloro-2-butene	0.50
95-49-8	2-Chlorotoluene	0.50
106-43-4	4-Chlorotoluene	0.50



TR0036

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER Lab Sample ID: 483256

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 483256

Level: (low/med) LOW Date Received: 04/11/02

& Moisture: not dec. Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm)

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

Dilution Factor: 1.0

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

103-65-1	n-Propylbenzene	0.50 U
108-67-8	1,3,5-Trimethylbenzene	0.50 U
76-01-7	Pentachloroethane	0.50 U
98-06-6	tert-Butylbenzene	0.50 U
95-63-6	1,2,4-Trimethylbenzene	0.50 U
135-98-8	sec-Butylbenzene	0.50 U
541-73-1	1,3-Dichlorobenzene	0.50 U
99-87-6	p-Isopropyltoluene	0.50 U
106-46-7	1,4-Dichlorobenzene	0.50 U
95-50-1	1,2-Dichlorobenzene	0.50 U
104-51-8	n-Butylbenzene	0.50 U
67-72-1	Hexachloroethane	0.50 U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50 U
98-95-3	Nitrobenzene	0.25 U
120-82-1	1,2,4-Trichlorobenzene	0.50 U
87-68-3	Hexachlorobutadiene	0.50 U
91-20-3	Naphthalene	0.50 U
87-61-6	1,2,3-Trichlorobenzene	0.50 U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

TR2081

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483245

Matrix: (soil/water) WATER

Lab File ID: 483245D2

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 3.6

ID: 0.53 (mm)

GC Column: CAP

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

1.8	U	Dichlorodifluoromethane	75-71-8
1.8	U	Chloromethane	74-87-3
1.8	U	Vinyl Chloride	75-01-4
1.8	U	Bromomethane	74-83-9
1.8	U	Chloroethane	75-00-3
1.8	U	Trichlorofluoromethane	75-69-4
1.8	U	Diethyl Ether	60-29-7
1.8	U	1,1-Dichloroethene	75-35-4
25	U	Acetone	67-64-1
1.8	U	Methyl Iodide	74-88-4
1.8	U	Carbon Disulfide	75-15-0
1.8	U	Allyl Chloride	107-05-1
7.2	B	Methylene Chloride	75-09-2
1.8	U	Acrylonitrile	107-13-1
1.8	U	trans-1,2-Dichloroethene	156-60-5
1.8	U	Methyl-t-Butyl Ether	1634-04-4
1.8	U	1,1-Dichloroethane	75-34-3
1.8	U	2,2-Dichloropropane	594-20-7
64	U	cis-1,2-Dichloroethene	156-59-2
18	U	2-Butanone	78-93-3
90	U	Propionitrile	107-12-0
1.8	U	Methyl Acrylate	96-33-3
1.8	U	Bromochloromethane	74-97-5
1.8	U	Methacrylonitrile	126-98-7
9.0	U	Tetrahydrofuran	109-99-9
1.8	U	Chloroform	67-66-3
1.8	U	1,1,1-Trichloroethane	71-55-6
1.8	U	1-Chlorobutane	109-69-3
1.8	U	Carbon Tetrachloride	56-23-5
1.8	U	1,1-Dichloropropene	563-58-6
1.8	U	Benzene	71-43-2
1.8	U	1,2-Dichloroethane	107-06-2
17	U	Trichloroethene	79-01-6

ENSGC2 SAMPLE NO. TR2081

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER Lab Sample ID: 483245

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 483245D2

Level: (low/med) LOW

Date Received: 04/11/02 Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm)

Soil Extract Volume: (uL) Dilution Factor: 3.6

Soil Aliquot Volume: (uL) CONCENTRATION UNITS: (ug/L or ug/kg) UG/L

CAS NO.	COMPOUND	CONCENTRATION UNITS
74-95-3	Dibromomethane	1.8 U
78-87-5	1,2-Dichloropropane	1.8 U
80-62-6	Methyl Methacrylate	1.8 U
75-27-4	Bromodichloromethane	1.8 U
107-14-2	Chloroacetoneitrile	90 U
10061-01-5	cis-1,3-Dichloropropene	1.8 U
513-88-2	1,1-Dichloropropane	90 U
108-10-1	4-Methyl-2-Pentanone	9.0 U
79-46-9	2-Nitropropane	90 U
108-88-3	Toluene	1.8 U
10061-02-6	trans-1,3-Dichloropropene	1.8 U
97-63-2	Ethyl Methacrylate	1.8 U
79-00-5	1,1,2-Trichloroethane	1.8 U
127-18-4	Tetrachloroethene	1.8 U
142-28-9	1,3-Dichloropropane	1.8 U
591-78-6	2-Hexanone	9.0 U
124-48-1	Dibromochloromethane	1.8 U
106-93-4	1,2-Dibromoethane	1.8 U
108-90-7	Chlorobenzene	1.8 U
630-20-6	1,1,1,2-Tetrachloroethane	1.8 U
100-41-4	Ethylbenzene	1.8 U
1330-20-7	m- & p-Xylene	1.8 U
95-47-6	o-Xylene	1.8 U
100-42-5	Styrene	1.8 U
75-25-2	Bromoforn	1.8 U
1330-20-7	Xylene (total)	1.8 U
98-82-8	Isopropylbenzene	1.8 U
108-86-1	Brombenzene	1.8 U
79-34-5	1,1,2,2-Tetrachloroethane	1.8 U
96-18-4	1,2,3-Trichloropropane	1.8 U
110-57-6	trans-1,4-Dichloro-2-butene	1.8 U
95-49-8	2-Chlorotoluene	1.8 U
106-43-4	4-Chlorotoluene	1.8 U

TR2081

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483245

Matrix: (soil/water) WATER

Lab File ID: 483245D2

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 3.6

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

1.8	U	n-Propylbenzene	103-65-1
1.8	U	-1,3,5-Trimethylbenzene	108-67-8
1.8	U	-Pentachloroethane	76-01-7
1.8	U	-tert-Butylbenzene	98-06-6
1.8	U	-1,2,4-Trimethylbenzene	95-63-6
1.8	U	-sec-Butylbenzene	135-98-8
1.8	U	-1,3-Dichlorobenzene	541-73-1
1.8	U	-p-Isopropyltoluene	99-87-6
1.8	U	-1,4-Dichlorobenzene	106-46-7
1.8	U	-1,2-Dichlorobenzene	95-50-1
1.8	U	-n-Butylbenzene	104-51-8
1.8	U	-Hexachloroethane	67-72-1
1.8	U	-1,2-Dibromo-3-Chloropropane	96-12-8
90	U	-Nitrobenzene	98-95-3
1.8	U	-1,2,4-Trichlorobenzene	120-82-1
1.8	U	-Hexachlorobutadiene	87-68-3
1.8	U	-Naphthalene	91-20-3
1.8	U	-1,2,3-Trichlorobenzene	87-61-6

TR2082

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483246

Matrix: (soil/water) WATER

Lab File ID: 483246

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

Date Received: 04/11/02

Level: (Low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L
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
60-29-7	Diethyl Ether	0.50 U
75-35-4	1,1-Dichloroethene	0.50 U
67-64-1	Acetone	5.0 U
74-88-4	Methyl Iodide	0.50 U
75-15-0	Carbon Disulfide	0.50 U
107-05-1	Allyl Chloride	0.50 U
75-09-2	Methylene Chloride	0.50 U
107-13-1	Acrylonitrile	0.50 U
156-60-5	trans-1,2-Dichloroethene	0.25 U
1634-04-4	Methyl-t-Butyl Ether	0.50 U
75-34-3	1,1-Dichloroethane	0.50 U
594-20-7	2,2-Dichloropropane	0.50 U
156-59-2	cis-1,2-Dichloroethene	28
78-93-3	2-Butanone	5.0 U
107-12-0	Propionitrile	25 U
96-33-3	Methyl Acrylate	0.50 U
74-97-5	Bromochloromethane	0.50 U
126-98-7	Methacrylonitrile	0.50 U
109-99-9	Tetrahydrofuran	2.5 U
67-66-3	Chloroform	0.50 U
71-55-6	1,1,1-Trichloroethane	0.50 U
109-69-3	1-Chlorobutane	0.50 U
56-23-5	Carbon Tetrachloride	0.50 U
563-58-6	1,1-Dichloropropene	0.50 U
71-43-2	Benzene	0.28 U
107-06-2	1,2-Dichloroethane	0.50 U
79-01-6	Trichloroethene	5.2 U

TR2082

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483246

Matrix: (soil/water) WATER

Lab File ID: 483246

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50 U	Dibromomethane	74-95-3
0.50 U	1,2-Dichloropropane	78-87-5
0.50 U	Methyl Methacrylate	80-62-6
0.50 U	Bromodichloromethane	75-27-4
0.50 U	Chloroacetone trile	107-14-2
0.50 U	cis-1,3-Dichloropropene	10061-01-5
0.50 U	1,1-Dichloropropane	513-88-2
2.5 U	4-Methyl-2-Pentanone	108-10-1
2.5 U	2-Nitropropane	79-46-9
0.50 U	Toluene	108-88-3
0.50 U	trans-1,3-Dichloropropene	10061-02-6
0.50 U	Ethyl Methacrylate	97-63-2
0.50 U	1,1,2-Trichloroethane	79-00-5
0.50 U	Tetrachloroethene	127-18-4
0.50 U	1,3-Dichloropropane	142-28-9
0.50 U	2-Hexanone	591-78-6
0.50 U	Dibromochloromethane	124-48-1
0.50 U	1,2-Dibromoethane	106-93-4
0.50 U	Chlorobenzene	108-90-7
0.50 U	1,1,1,2-Tetrachloroethane	630-20-6
0.50 U	Ethylbenzene	100-41-4
0.50 U	m- & p-Xylene	1330-20-7
0.50 U	o-Xylene	95-47-6
0.50 U	Styrene	100-42-5
0.50 U	Bromofom	75-25-2
0.50 U	Xylene (total)	1330-20-7
0.50 U	Isopropylbenzene	98-82-8
0.50 U	Bromobenzene	108-86-1
0.50 U	1,1,2,2-Tetrachloroethane	79-34-5
0.50 U	1,2,3-Trichloropropane	96-18-4
0.50 U	trans-1,4-Dichloro-2-butene	110-57-6
0.50 U	2-Chlorotoluene	95-49-8
0.50 U	4-Chlorotoluene	106-43-4



TR2082

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLV

Lab Sample ID: 483246

Matrix: (soil/water) WATER

Lab File ID: 483246

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

COMPOUND

CAS NO.

0.50 U	n-Propylbenzene	103-65-1
0.50 U	1,3,5-Trimethylbenzene	108-67-8
0.50 U	Pentachloroethane	76-01-7
0.50 U	tert-Butylbenzene	98-06-6
0.50 U	1,2,4-Trimethylbenzene	95-63-6
0.50 U	sec-Butylbenzene	135-98-8
0.50 U	1,3-Dichlorobenzene	541-73-1
0.50 U	p-Isopropyltoluene	99-87-6
0.50 U	1,4-Dichlorobenzene	106-46-7
0.50 U	1,2-Dichlorobenzene	95-50-1
0.50 U	n-Butylbenzene	104-51-8
0.50 U	Hexachloroethane	67-72-1
0.50 U	1,2-Dibromo-3-Chloropropane	96-12-8
0.50 U	Nitrobenzene	98-95-3
0.25 U	1,2,4-Trichlorobenzene	120-82-1
0.50 U	Hexachlorobutadiene	87-68-3
0.50 U	Naphthalene	91-20-3
0.50 U	1,2,3-Trichlorobenzene	87-61-6

TR2083

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483247

Matrix: (soil/water) WATER

Lab File ID: 483247D2

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 3.6

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

1.8	U	Dichlorodifluoromethane	75-71-8
1.8	U	Chloromethane	74-87-3
1.8	U	Vinyl Chloride	75-01-4
1.8	U	Bromomethane	74-83-9
1.8	U	Chloroethane	75-00-3
1.8	U	Trichlorofluoromethane	75-69-4
1.8	U	Diethyl Ether	60-29-7
1.8	U	1,1-Dichloroethene	75-35-4
24	U	Acetone	67-64-1
1.8	U	Methyl Iodide	74-88-4
1.8	U	Carbon Disulfide	75-15-0
1.8	U	Allyl Chloride	107-05-1
7.4	B	Methylene Chloride	75-09-2
1.8	U	Acrylonitrile	107-13-1
1.8	U	trans-1,2-Dichloroethene	156-60-5
1.8	U	Methyl-t-Butyl Ether	1634-04-4
1.8	U	1,1-Dichloroethane	75-34-3
1.8	U	2,2-Dichloropropane	594-20-7
1.8	U	cis-1,2-Dichloroethene	156-59-2
18	U	2-Butanone	78-93-3
90	U	Propionitrile	107-12-0
1.8	U	Methyl Acrylate	96-33-3
1.8	U	Bromochloromethane	74-97-5
1.8	U	Methacrylonitrile	126-98-7
9.0	U	Tetrahydrofuran	109-99-9
1.8	U	Chloroform	67-66-3
1.8	U	1,1,1-Trichloroethane	71-55-6
1.8	U	1-Chlorobutane	109-69-3
1.8	U	Carbon Tetrachloride	56-23-5
1.8	U	1,1-Dichloropropene	563-58-6
1.8	U	Benzene	71-43-2
1.8	U	1,2-Dichloroethane	107-06-2
1.7	U	Trichloroethene	79-01-6



TR2083

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483247

Matrix: (soil/water) WATER

Lab File ID: 483247D2

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 3.6

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

1.8 U	Dibromomethane	74-95-3
1.8 U	1,2-Dichloropropane	78-87-5
1.8 U	Methyl Methacrylate	80-62-6
1.8 U	Bromodichloromethane	75-27-4
1.8 U	Chloroacetone trile	107-14-2
90 U	cis-1,3-Dichloropropene	10061-01-5
1.8 U	1,1-Dichloropropane	513-88-2
90 U	4-Methyl-2-Pentanone	108-10-1
9.0 U	2-Nitropropane	79-46-9
90 U	Toluene	108-88-3
1.8 U	trans-1,3-Dichloropropene	10061-02-6
1.8 U	Ethyl Methacrylate	97-63-2
1.8 U	1,1,2-Trichloroethane	79-00-5
1.8 U	Tetrachloroethene	127-18-4
1.8 U	1,3-Dichloropropane	142-28-9
1.8 U	2-Hexanone	591-78-6
1.8 U	Dibromochloromethane	124-48-1
1.8 U	1,2-Dibromoethane	106-93-4
1.8 U	Chlorobenzene	108-90-7
1.8 U	1,1,1,2-Tetrachloroethane	630-20-6
1.8 U	Ethylbenzene	100-41-4
1.8 U	m- & p-Xylene	1330-20-7
1.8 U	o-Xylene	95-47-6
1.8 U	Styrene	100-42-5
1.8 U	Bromoform	75-25-2
1.8 U	Xylene (total)	1330-20-7
1.8 U	Isopropylbenzene	98-82-8
1.8 U	Bromobenzene	108-86-1
1.8 U	1,1,2,2-Tetrachloroethane	79-34-5
1.8 U	1,2,3-Trichloropropane	96-18-4
1.8 U	trans-1,4-Dichloro-2-butene	110-57-6
1.8 U	2-Chlorotoluene	95-49-8
1.8 U	4-Chlorotoluene	106-43-4

VOLATILE ORGANICS ANALYSIS DATA SHEET

TR2083

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Lab Code: STLVT

Case No.: 98011

Lab Sample ID: 483247

Matrix: (soil/water) WATER

Lab File ID: 483247D2

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 3.6

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

COMPOUND

CAS NO.

1.8 U	n-Propylbenzene	103-65-1
1.8 U	-1,3,5-Trimethylbenzene	108-67-8
1.8 U	Pentachloroethane	76-01-7
1.8 U	tert-Butylbenzene	98-06-6
1.8 U	-1,2,4-Trimethylbenzene	95-63-6
1.8 U	sec-Butylbenzene	135-98-8
1.8 U	-1,3-Dichlorobenzene	541-73-1
1.8 U	p-Isopropyltoluene	99-87-6
1.8 U	-1,4-Dichlorobenzene	106-46-7
1.8 U	-1,2-Dichlorobenzene	95-50-1
1.8 U	n-Butylbenzene	104-51-8
1.8 U	Hexachloroethane	67-72-1
1.8 U	-1,2-Dibromo-3-Chloropropane	96-12-8
90 U	Nitrobenzene	98-95-3
1.8 U	-1,2,4-Trichlorobenzene	120-82-1
1.8 U	Hexachlorobutadiene	87-68-3
1.8 U	Naphthalene	91-20-3
1.8 U	-1,2,3-Trichlorobenzene	87-61-6

TR2084

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483248

Matrix: (soil/water) WATER

Lab File ID: 483248

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50 U	Dichlorodifluoromethane	75-71-8
0.50 U	Chloromethane	74-87-3
0.50 U	Vinyl Chloride	75-01-4
0.50 U	Bromomethane	74-83-9
0.50 U	Chloroethane	75-00-3
0.50 U	Trichlorofluoromethane	75-69-4
0.50 U	Diethyl Ether	60-29-7
0.50 U	1,1-Dichloroethene	75-35-4
5.0 U	Acetone	67-64-1
0.50 U	Methyl Iodide	74-88-4
0.50 U	Carbon Disulfide	75-15-0
0.50 U	Allyl Chloride	107-05-1
0.50 U	Methylene Chloride	75-09-2
0.50 U	Acrylonitrile	107-13-1
0.50 U	trans-1,2-Dichloroethene	156-60-5
0.50 U	Methyl-t-Butyl Ether	1634-04-4
0.34 U	1,1-Dichloroethane	75-34-3
0.50 U	2,2-Dichloropropane	594-20-7
0.50 U	cis-1,2-Dichloroethene	156-59-2
5.0 U	2-Butanone	78-93-3
25 U	Propionitrile	107-12-0
0.50 U	Methyl Acrylate	96-33-3
0.50 U	Bromochloromethane	74-97-5
0.50 U	Methacrylonitrile	126-98-7
0.50 U	Tetrahydrofuran	109-99-9
2.5 U	Chloroform	67-66-3
0.50 U	1,1,1-Trichloroethane	71-55-6
0.50 U	1-Chlorobutane	109-69-3
0.50 U	Carbon Tetrachloride	56-23-5
0.50 U	1,1-Dichloropropene	563-58-6
0.50 U	Benzene	71-43-2
0.38 U	1,2-Dichloroethane	107-06-2
0.50 U	Trichloroethene	79-01-6

TR2084

Contract: 98011

Lab Name: STL BURLINGTON

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER

Lab Sample ID: 483248

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

Lab File ID: 483248

Level: (low/med) LOW

Date Received: 04/11/02

& Moisture: not dec.

Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-95-3	Dibromomethane	0.50 U
78-87-5	1,2-Dichloropropane	0.50 U
80-62-6	Methyl Methacrylate	0.50 U
75-27-4	Bromodichloromethane	0.50 U
107-14-2	Chloroacetoneitrile	25 U
10061-01-5	cis-1,3-Dichloropropene	0.50 U
513-88-2	1,1-Dichloropropane	25 U
108-10-1	4-Methyl-2-Pentanone	25 U
79-46-9	2-Nitropropane	25 U
108-88-3	Toluene	0.50 U
10061-02-6	trans-1,3-Dichloropropene	0.50 U
97-63-2	Ethyl Methacrylate	0.50 U
79-00-5	1,1,2-Trichloroethane	0.50 U
127-18-4	Tetrachloroethene	0.50 U
142-28-9	1,3-Dichloropropane	0.50 U
591-78-6	2-Hexanone	2.5 U
124-48-1	Dibromochloromethane	0.50 U
106-93-4	1,2-Dibromoethane	0.50 U
108-90-7	Chlorobenzene	0.50 U
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U
100-41-4	Ethylbenzene	0.50 U
1330-20-7	m- & p-Xylene	0.50 U
95-47-6	o-Xylene	0.50 U
100-42-5	Styrene	0.50 U
75-25-2	Bromoforn	0.50 U
1330-20-7	Xylene (total)	0.50 U
98-82-8	Isopropylbenzene	0.50 U
108-86-1	Bromobenzene	0.50 U
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U
96-18-4	1,2,3-Trichloropropane	0.50 U
110-57-6	trans-1,4-Dichloro-2-butene	0.50 U
95-49-8	2-Chlorotoluene	0.50 U
106-43-4	4-Chlorotoluene	0.50 U

TR2084

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER Lab Sample ID: 483248

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 483248

Level: (low/med) LOW Date Received: 04/11/02

% Moisture: not dec. Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

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

103-65-1	n-Propylbenzene	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
76-01-7	Pentachloroethane	0.50	U
98-06-6	tert-Butylbenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
135-98-8	sec-Butylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
99-87-6	p-Isopropyltoluene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
104-51-8	n-Butylbenzene	0.50	U
67-72-1	Hexachloroethane	0.50	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.50	U
98-95-3	Nitrobenzene	25	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-68-3	Hexachlorobutadiene	0.50	U
91-20-3	Naphthalene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

TR2085

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483249

Matrix: (soil/water) WATER

Lab File ID: 483249D

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 22.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

11	U	75-71-8	Dichlorodifluoromethane
11	U	74-87-3	Chloromethane
11	U	75-01-4	Vinyl Chloride
11	U	74-83-9	Bromomethane
11	U	75-00-3	Chloroethane
11	U	75-69-4	Trichlorofluoromethane
11	U	60-29-7	Diethyl Ether
11	U	75-35-4	1,1-Dichloroethene
110	U	67-64-1	Acetone
11	U	74-88-4	Methyl Iodide
11	U	75-15-0	Carbon Disulfide
11	U	107-05-1	Allyl Chloride
11	U	75-09-2	Methylene Chloride
11	U	107-13-1	Acrylonitrile
11	U	156-60-5	trans-1,2-Dichloroethene
11	U	1634-04-4	Methyl-t-Butyl Ether
11	U	75-34-3	1,1-Dichloroethane
594-20-7	U	2,2-Dichloropropane	
156-59-2	U	cis-1,2-Dichloroethene	
78-93-3	U	2-Butanone	
107-12-0	U	Propionitrile	
96-33-3	U	Methyl Acrylate	
74-97-5	U	Bromochloromethane	
126-98-7	U	Methacrylonitrile	
109-99-9	U	Tetrahydrofuran	
67-66-3	U	Chloroform	
71-55-6	U	1,1,1-Trichloroethane	
109-69-3	U	1-Chlorobutane	
56-23-5	U	Carbon Tetrachloride	
563-58-6	U	1,1-Dichloropropene	
71-43-2	U	Benzene	
107-06-2	U	1,2-Dichloroethane	
79-01-6	U	Trichloroethene	
540	U		



TR2085

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483249

Matrix: (soil/water) WATER

Lab File ID: 483249D

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 22.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

11 U	74-95-3	Dibromomethane
11 U	78-87-5	1,2-Dichloropropane
11 U	80-62-6	Methyl Methacrylate
11 U	75-27-4	Bromodichloromethane
550 U	107-14-2	Chloroacetone trile
11 U	10061-01-5	cis-1,3-Dichloropropene
550 U	513-88-2	1,1-Dichloropropane
55 U	108-10-1	4-Methyl-2-Pentanone
550 U	79-46-9	2-Nitropropane
11 U	108-88-3	Toluene
11 U	10061-02-6	trans-1,3-Dichloropropene
11 U	97-63-2	Ethyl Methacrylate
11 U	79-00-5	1,1,2-Trichloroethane
11 U	127-18-4	Tetrachloroethene
11 U	142-28-9	1,3-Dichloropropane
11 U	591-78-6	2-Hexanone
11 U	124-48-1	Dibromochloromethane
11 U	106-93-4	1,2-Dibromoethane
11 U	108-90-7	Chlorobenzene
11 U	630-20-6	1,1,1,2-Tetrachloroethane
11 U	100-41-4	Ethylbenzene
11 U	1330-20-7	m- & p-Xylene
11 U	95-47-6	o-Xylene
11 U	100-42-5	Styrene
11 U	75-25-2	Bromofom
11 U	1330-20-7	Xylene (total)
11 U	98-82-8	Isopropylbenzene
11 U	108-86-1	Bromobenzene
11 U	79-34-5	1,1,2,2-Tetrachloroethane
11 U	96-18-4	1,2,3-Trichloropropane
11 U	110-57-6	trans-1,4-Dichloro-2-butene
11 U	95-49-8	2-Chlorotoluene
11 U	106-43-4	4-Chlorotoluene

FORM 1  
VOLATILE ORGANICS ANALYSIS DATA SHEET

TR2085

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483249

Matrix: (soil/water) WATER

Lab File ID: 483249D

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 22.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

11 U	n-Propylbenzene	103-65-1
11 U	-1,3,5-Trimethylbenzene	108-67-8
11 U	Pentachloroethane	76-01-7
11 U	tert-Butylbenzene	98-06-6
11 U	-1,2,4-Trimethylbenzene	95-63-6
11 U	sec-Butylbenzene	135-98-8
11 U	-1,3-Dichlorobenzene	541-73-1
11 U	p-Isopropyltoluene	99-87-6
11 U	-1,4-Dichlorobenzene	106-46-7
11 U	-1,2-Dichlorobenzene	95-50-1
11 U	n-Butylbenzene	104-51-8
11 U	Hexachloroethane	67-72-1
11 U	-1,2-Dibromo-3-chloropropane	96-12-8
550 U	Nitrobenzene	98-95-3
11 U	-1,2,4-Trichlorobenzene	120-82-1
11 U	Hexachlorobutadiene	87-68-3
11 U	Naphthalene	91-20-3
11 U	-1,2,3-Trichlorobenzene	87-61-6



TR2086

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483250

Matrix: (soil/water) WATER

Lab File ID: 483250D

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 4.0

GC Column: CAP ID: 0.53 (mm)

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

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

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

CAS NO. COMPOUND

2.0	U	74-95-3	Dibromomethane
2.0	U	78-87-5	1,2-Dichloropropane
2.0	U	80-62-6	Methyl Methacrylate
2.0	U	75-27-4	Bromodichloromethane
100	U	107-14-2	Chloroacetonitrile
2.0	U	10061-01-5	cis-1,3-Dichloropropene
100	U	513-88-2	1,1-Dichloropropane
10	U	108-10-1	4-Methyl-2-Pentanone
100	U	79-46-9	2-Nitropropane
2.0	U	108-88-3	Toluene
2.0	U	10061-02-6	trans-1,3-Dichloropropene
2.0	U	97-63-2	Ethyl Methacrylate
2.0	U	79-00-5	1,1,2-Trichloroethane
2.0	U	127-18-4	Tetrachloroethene
2.0	U	142-28-9	1,3-Dichloropropane
10	U	591-78-6	2-Hexanone
2.0	U	124-48-1	Dibromochloromethane
2.0	U	106-93-4	1,2-Dibromomethane
2.0	U	108-90-7	Chlorobenzene
2.0	U	630-20-6	1,1,1,2-Tetrachloroethane
2.0	U	100-41-4	Ethylbenzene
2.0	U	1330-20-7	m- & p-Xylene
2.0	U	95-47-6	o-Xylene
2.0	U	100-42-5	Styrene
2.0	U	75-25-2	Bromoforn
2.0	U	1330-20-7	Xylene (total)
2.0	U	98-82-8	Isopropylbenzene
2.0	U	108-86-1	Bromobenzene
2.0	U	79-34-5	1,1,2,2-Tetrachloroethane
2.0	U	96-18-4	1,2,3-Trichloropropane
2.0	U	110-57-6	trans-1,4-Dichloro-2-butene
2.0	U	95-49-8	2-Chlorotoluene
2.0	U	106-43-4	4-Chlorotoluene

TR2086

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483250

Matrix: (soil/water) WATER

Lab File ID: 483250D

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 4.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

2.0	U	Dichlorodifluoromethane	75-71-8
2.0	U	Chloromethane	74-87-3
2.0	U	Vinyl Chloride	75-01-4
2.0	U	Bromomethane	74-83-9
2.0	U	Chloroethane	75-00-3
2.0	U	Trichlorofluoromethane	75-69-4
2.0	U	Diethyl Ether	60-29-7
2.0	U	1,1-Dichloroethene	75-35-4
20	U	Acetone	67-64-1
2.0	U	Methyl Iodide	74-88-4
2.0	U	Carbon Disulfide	75-15-0
2.0	U	Allyl Chloride	107-05-1
0.90	JB	Methylene Chloride	75-09-2
2.0	U	Acrylonitrile	107-13-1
2.0	U	trans-1,2-Dichloroethene	156-60-5
2.0	U	Methyl-t-Butyl Ether	1634-04-4
2.0	U	1,1-Dichloroethane	75-34-3
2.0	U	2,2-Dichloropropane	594-20-7
2.0	U	cis-1,2-Dichloroethene	156-59-2
20	U	2-Butanone	78-93-3
100	U	Propionitrile	107-12-0
2.0	U	Methyl Acrylate	96-33-3
2.0	U	Bromochloromethane	74-97-5
2.0	U	Methacrylonitrile	126-98-7
10	U	Tetrahydrofuran	109-99-9
2.0	U	Chloroform	67-66-3
2.0	U	1,1,1-Trichloroethane	71-55-6
2.0	U	1-Chlorobutane	109-69-3
2.0	U	Carbon Tetrachloride	56-23-5
2.0	U	1,1-Dichloropropene	563-58-6
2.0	U	Benzene	71-43-2
2.0	U	1,2-Dichloroethane	107-06-2
100	U	Trichloroethene	79-01-6

TR2086

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLV1 Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER Lab Sample ID: 483250

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 483250D

Level: (low/med) LOW Date Received: 04/11/02

% Moisture: not dec. Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 4.0

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

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

103-65-1	n-Propylbenzene	2.0 U
108-67-8	1,3,5-Trimethylbenzene	2.0 U
76-01-7	Pentachloroethane	2.0 U
98-06-6	tert-Butylbenzene	2.0 U
95-63-6	1,2,4-Trimethylbenzene	2.0 U
135-98-8	sec-Butylbenzene	2.0 U
541-73-1	1,3-Dichlorobenzene	2.0 U
99-87-6	p-Isopropyltoluene	2.0 U
106-46-7	1,4-Dichlorobenzene	2.0 U
95-50-1	1,2-Dichlorobenzene	2.0 U
104-51-8	n-Butylbenzene	2.0 U
67-72-1	Hexachloroethane	2.0 U
96-12-8	1,2-Dibromo-3-Chloropropane	2.0 U
98-95-3	Nitrobenzene	100 U
120-82-1	1,2,4-Trichlorobenzene	2.0 U
87-68-3	Hexachlorobutadiene	2.0 U
91-20-3	Naphthalene	2.0 U
87-61-6	1,2,3-Trichlorobenzene	2.0 U

VOLATILE ORGANICS ANALYSIS DATA SHEET

TR2087

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483251

Matrix: (soil/water) WATER

Lab File ID: 483251

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO.

COMPOUND

0.50	U	Dichlorodifluoromethane	75-71-8
0.50	U	Chloromethane	74-87-3
0.50	U	Vinyl Chloride	75-01-4
0.50	U	Bromomethane	74-83-9
0.50	U	Chloroethane	75-00-3
0.50	U	Trichlorofluoromethane	75-69-4
0.50	U	Diethyl Ether	60-29-7
0.50	U	1,1-Dichloroethene	75-35-4
5.0	U	Acetone	67-64-1
0.50	U	Methyl Iodide	74-88-4
0.50	U	Carbon Disulfide	75-15-0
0.50	U	Allyl Chloride	107-05-1
0.50	U	Methylene Chloride	75-09-2
0.50	U	Acrylonitrile	107-13-1
0.50	U	trans-1,2-Dichloroethene	156-60-5
0.50	U	Methyl-t-Butyl Ether	1634-04-4
0.50	U	1,1-Dichloroethane	75-34-3
0.50	U	2,2-Dichloropropane	594-20-7
2.9	U	cis-1,2-Dichloroethene	156-59-2
5.0	U	2-Butanone	78-93-3
25	U	Propionitrile	107-12-0
0.50	U	Methyl Acrylate	96-33-3
0.50	U	Bromochloromethane	74-97-5
0.50	U	Methacrylonitrile	126-98-7
2.5	U	Tetrahydrofuran	109-99-9
0.50	U	Chloroform	67-66-3
0.50	U	1,1,1-Trichloroethane	71-55-6
0.50	U	1-Chlorobutane	109-69-3
0.50	U	Carbon Tetrachloride	56-23-5
0.50	U	1,1-Dichloropropene	563-58-6
0.46	U	Benzene	71-43-2
0.50	U	1,2-Dichloroethane	107-06-2
0.50	U	Trichloroethene	79-01-6

TR2087

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER

Lab Sample ID: 483251

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

Lab File ID: 483251

Level: (low/med) LOW

Date Received: 04/11/02

% Moisture: not dec.

Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

74-95-3	Dibromomethane	0.50 U
78-87-5	1,2-Dichloropropane	0.50 U
80-62-6	Methyl Methacrylate	0.50 U
75-27-4	Bromodichloromethane	0.50 U
107-14-2	Chloroacetoneitrile	25 U
10061-01-5	cis-1,3-Dichloropropene	0.50 U
513-88-2	1,1-Dichloropropane	25 U
108-10-1	4-Methyl-2-Pentanone	2.5 U
79-46-9	2-Nitropropane	25 U
108-88-3	Toluene	0.50 U
10061-02-6	trans-1,3-Dichloropropene	0.50 U
97-63-2	Ethyl Methacrylate	0.50 U
79-00-5	1,1,2-Trichloroethane	0.50 U
127-18-4	Tetrachloroethene	0.50 U
142-28-9	1,3-Dichloropropane	0.50 U
591-78-6	2-Hexanone	2.5 U
124-48-1	Dibromochloromethane	0.50 U
106-93-4	1,2-Dibromoethane	0.50 U
108-90-7	Chlorobenzene	0.50 U
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U
100-41-4	Ethylbenzene	0.50 U
1330-20-7	m- & p-Xylene	0.50 U
95-47-6	o-Xylene	0.50 U
100-42-5	Styrene	0.50 U
75-25-2	Bromoforn	0.50 U
1330-20-7	Xylene (total)	0.50 U
98-82-8	Isopropylbenzene	0.50 U
108-86-1	Bromobenzene	0.50 U
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U
96-18-4	1,2,3-Trichloropropane	0.50 U
110-57-6	trans-1,4-Dichloro-2-butene	0.50 U
95-49-8	2-Chlorotoluene	0.50 U
106-43-4	4-Chlorotoluene	0.50 U

TR2087

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483251

Matrix: (soil/water) WATER

Lab File ID: 483251

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

COMPOUND

CAS NO.

0.50 U	n-Propylbenzene	103-65-1
0.50 U	1,3,5-Trimethylbenzene	108-67-8
0.50 U	Pentachloroethane	76-01-7
0.50 U	tert-Butylbenzene	98-06-6
0.50 U	1,2,4-Trimethylbenzene	95-63-6
0.50 U	sec-Butylbenzene	135-98-8
0.50 U	1,3-Dichlorobenzene	541-73-1
0.50 U	p-Isopropyltoluene	99-87-6
0.50 U	1,4-Dichlorobenzene	106-46-7
0.50 U	1,2-Dichlorobenzene	95-50-1
0.50 U	n-Butylbenzene	104-51-8
0.50 U	Hexachloroethane	67-72-1
0.50 U	1,2-Dibromo-3-chloropropane	96-12-8
0.25 U	Nitrobenzene	98-95-3
0.50 U	1,2,4-Trichlorobenzene	120-82-1
0.50 U	Hexachlorobutadiene	87-68-3
0.50 U	Naphthalene	91-20-3
0.50 U	1,2,3-Trichlorobenzene	87-61-6



TR2088

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483252

Matrix: (soil/water) WATER

Lab File ID: 483252

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50 U	Dibromomethane	74-95-3
0.50 U	1,2-Dichloropropane	78-87-5
0.50 U	Methyl Methacrylate	80-62-6
0.50 U	Bromodichloromethane	75-27-4
0.50 U	Chloroacetoneitrile	107-14-2
25 U	cis-1,3-Dichloropropene	10061-01-5
0.50 U	1,1-Dichloropropane	513-88-2
25 U	4-Methyl-2-Pentanone	108-10-1
2.5 U	2-Nitropropane	79-46-9
25 U	Toluene	108-88-3
0.50 U	trans-1,3-Dichloropropene	10061-02-6
0.50 U	Ethyl Methacrylate	97-63-2
0.50 U	1,1,2-Trichloroethane	79-00-5
0.50 U	1,1,1,2-Tetrachloroethane	630-20-6
0.50 U	Ethylbenzene	100-41-4
0.50 U	m- & p-Xylene	1330-20-7
0.50 U	o-Xylene	95-47-6
0.50 U	Styrene	100-42-5
0.50 U	Bromform	75-25-2
0.50 U	Xylene (total)	1330-20-7
0.50 U	Isopropylbenzene	98-82-8
0.50 U	Brombenzene	108-86-1
0.50 U	1,1,2,2-Tetrachloroethane	79-34-5
0.50 U	1,2,3-Trichloropropane	96-18-4
0.50 U	trans-1,4-Dichloro-2-butene	110-57-6
0.50 U	2-Chlorotoluene	95-49-8
0.50 U	4-Chlorotoluene	106-43-4

TR2088

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483252

Matrix: (soil/water) WATER

Lab File ID: 483252

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

Level: (low/med) LOW

Date Received: 04/11/02

& Moisture: not dec.

Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
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
60-29-7	Diethyl Ether	0.50 U
75-35-4	1,1-Dichloroethene	0.50 U
67-64-1	Acetone	5.0 U
74-88-4	Methyl Iodide	0.50 U
75-15-0	Carbon Disulfide	0.50 U
107-05-1	Allyl Chloride	0.50 U
75-09-2	Methylene Chloride	0.50 U
107-13-1	Acrylonitrile	0.50 U
156-60-5	trans-1,2-Dichloroethene	0.50 U
1634-04-4	Methyl-t-Butyl Ether	0.50 U
75-34-3	1,1-Dichloroethane	0.50 U
594-20-7	2,2-Dichloropropane	0.50 U
156-59-2	cis-1,2-Dichloroethene	0.50 U
78-93-3	2-Butanone	5.0 U
107-12-0	Propionitrile	25 U
96-33-3	Methyl Acrylate	0.50 U
74-97-5	Bromochloromethane	0.50 U
126-98-7	Methacrylonitrile	0.50 U
109-99-9	Tetrahydrofuran	2.5 U
67-66-3	Chloroform	0.50 U
71-55-6	1,1,1-Trichloroethane	0.50 U
109-69-3	1-Chlorobutane	0.50 U
56-23-5	Carbon Tetrachloride	0.50 U
563-58-6	1,1-Dichloropropene	0.50 U
71-43-2	Benzene	0.50 U
107-06-2	1,2-Dichloroethane	0.50 U
79-01-6	Trichloroethene	0.50 U



FORM 1 VOLATILE ORGANICS ANALYSIS DATA SHEET

FORM 1

TR2089

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483253

Matrix: (soil/water) WATER

Lab File ID: 483253

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

COMPOUND

CAS NO.

0.50 U	Dichlorodifluoromethane	75-71-8
0.50 U	Chloromethane	74-87-3
0.50 U	Vinyl Chloride	75-01-4
0.50 U	Bromomethane	74-83-9
0.50 U	Chloroethane	75-00-3
0.50 U	Trichlorofluoromethane	75-69-4
0.50 U	Diethyl Ether	60-29-7
0.50 U	1,1-Dichloroethene	75-35-4
5.0 U	Acetone	67-64-1
0.50 U	Methyl Iodide	74-88-4
0.50 U	Carbon Disulfide	75-15-0
0.50 U	Allyl Chloride	107-05-1
0.50 U	Methylene Chloride	75-09-2
0.50 U	Acrylonitrile	107-13-1
0.50 U	trans-1,2-Dichloroethene	156-60-5
0.50 U	Methyl-t-Butyl Ether	1634-04-4
0.35 U	1,1-Dichloroethane	75-34-3
0.50 U	2,2-Dichloropropane	594-20-7
8.2 U	cis-1,2-Dichloroethene	156-59-2
5.0 U	2-Butanone	78-93-3
25 U	Propionitrile	107-12-0
0.50 U	Methyl Acrylate	96-33-3
0.50 U	Bromochloromethane	74-97-5
0.50 U	Methacrylonitrile	126-98-7
2.5 U	Tetrahydrofuran	109-99-9
0.50 U	Chloroform	67-66-3
0.50 U	1,1,1-Trichloroethane	71-55-6
0.50 U	1-Chlorobutane	109-69-3
0.50 U	Carbon Tetrachloride	56-23-5
0.50 U	1,1-Dichloropropene	563-58-6
0.42 U	Benzene	71-43-2
0.50 U	1,2-Dichloroethane	107-06-2
0.50 U	Trichloroethene	79-01-6

TR2088

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483252

Matrix: (soil/water) WATER

Lab File ID: 483252

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

Q

COMPOUND

CAS NO.

0.50 U	n-Propylbenzene	103-65-1
0.50 U	1,3,5-Trimethylbenzene	108-67-8
0.50 U	Pentachloroethane	76-01-7
0.50 U	tert-Butylbenzene	98-06-6
0.50 U	1,2,4-Trimethylbenzene	95-63-6
0.50 U	sec-Butylbenzene	135-98-8
0.50 U	1,3-Dichlorobenzene	541-73-1
0.50 U	p-Isopropyltoluene	99-87-6
0.50 U	1,4-Dichlorobenzene	106-46-7
0.50 U	1,2-Dichlorobenzene	95-50-1
0.50 U	n-Butylbenzene	104-51-8
0.50 U	Hexachloroethane	67-72-1
0.50 U	1,2-Dibromo-3-chloropropane	96-12-8
0.25 U	Nitrobenzene	98-95-3
0.50 U	1,2,4-Trichlorobenzene	120-82-1
0.50 U	Hexachlorobutadiene	87-68-3
0.50 U	Naphthalene	91-20-3
0.50 U	1,2,3-Trichlorobenzene	87-61-6

TR2089

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: 483253

Matrix: (soil/water) WATER

Lab File ID: 483253

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

Date Received: 04/11/02

Level: (Low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50 U	Dibromomethane	74-95-3
0.50 U	1,2-Dichloropropane	78-87-5
0.50 U	Methyl Methacrylate	80-62-6
0.50 U	Bromodichloromethane	75-27-4
0.50 U	Chloroacetonitrile	107-14-2
0.50 U	cis-1,3-Dichloropropene	10061-01-5
0.50 U	1,1-Dichloropropane	513-88-2
2.5 U	4-Methyl-2-Pentanone	108-10-1
2.5 U	2-Nitropropane	79-46-9
0.50 U	Toluene	108-88-3
0.50 U	trans-1,3-Dichloropropene	10061-02-6
0.50 U	Ethyl Methacrylate	97-63-2
0.50 U	1,1,2-Trichloroethane	79-00-5
0.50 U	Tetrachloroethene	127-18-4
0.50 U	1,3-Dichloropropane	142-28-9
0.50 U	2-Hexanone	591-78-6
0.50 U	Dibromochloromethane	124-48-1
0.50 U	1,2-Dibromoethane	106-93-4
0.50 U	Chlorobenzene	108-90-7
0.50 U	1,1,1,2-Tetrachloroethane	630-20-6
0.50 U	Ethylbenzene	100-41-4
0.50 U	m- & p-Xylene	1330-20-7
0.50 U	o-Xylene	95-47-6
0.50 U	Styrene	100-42-5
0.50 U	Bromoforn	75-25-2
0.50 U	Xylene (total)	1330-20-7
0.50 U	Isopropylbenzene	98-82-8
0.50 U	Bromobenzene	108-86-1
0.50 U	1,1,2,2-Tetrachloroethane	79-34-5
0.50 U	1,2,3-Trichloropropane	96-18-4
0.50 U	trans-1,4-Dichloro-2-butene	110-57-6
0.50 U	2-Chlorotoluene	95-49-8
0.50 U	4-Chlorotoluene	106-43-4

TR2089

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483253

Matrix: (soil/water) WATER

Lab File ID: 483253

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

0.50 U	n-Propylbenzene	103-65-1
0.50 U	1,3,5-Trimethylbenzene	108-67-8
0.50 U	Pentachloroethane	76-01-7
0.50 U	tert-Butylbenzene	98-06-6
0.50 U	1,2,4-Trimethylbenzene	95-63-6
0.50 U	sec-Butylbenzene	135-98-8
0.50 U	1,3-Dichlorobenzene	541-73-1
0.50 U	p-Isopropyltoluene	99-87-6
0.50 U	1,4-Dichlorobenzene	106-46-7
0.50 U	1,2-Dichlorobenzene	95-50-1
0.50 U	n-Butylbenzene	104-51-8
0.50 U	Hexachloroethane	67-72-1
0.50 U	1,2-Dibromo-3-Chloropropane	96-12-8
0.25 U	Nitrobenzene	98-95-3
0.50 U	1,2,4-Trichlorobenzene	120-82-1
0.50 U	Hexachlorobutadiene	87-68-3
0.50 U	Naphthalene	91-20-3
0.50 U	1,2,3-Trichlorobenzene	87-61-6

VBLKZ7

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011 SAS No.:

Lab Code: STLVT

Lab Sample ID: VBLKZ7

Matrix: (soil/water) WATER

Lab File ID: LM0B02D

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

Date Received:

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND

0

0.50 U	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	60-29-7	Diethyl Ether
0.50 U	75-35-4	1,1-Dichloroethene
5.0 U	67-64-1	Acetone
0.50 U	74-88-4	Methyl Iodide
0.50 U	75-15-0	Carbon Disulfide
0.50 U	107-05-1	Allyl Chloride
0.31 U	75-09-2	Methylene Chloride
0.50 U	107-13-1	Acrylonitrile
0.50 U	156-60-5	trans-1,2-Dichloroethene
0.50 U	1634-04-4	Methyl-t-Butyl Ether
0.50 U	75-34-3	1,1-Dichloroethane
0.50 U	594-20-7	2,2-Dichloropropane
0.50 U	156-59-2	cis-1,2-Dichloroethene
5.0 U	78-93-3	2-Butanone
25 U	107-12=0	Propionitrile
0.50 U	96-33-3	Methyl Acrylate
0.50 U	74-97-5	Bromochloromethane
0.50 U	126-98-7	Methacrylonitrile
2.5 U	109-99-9	Tetrahydrofuran
0.50 U	67-66-3	Chloroform
0.50 U	71-55-6	1,1,1-Trichloroethane
0.50 U	109-69-3	1-Chlorobutane
0.50 U	56-23-5	Carbon Tetrachloride
0.50 U	563-58-6	1,1-Dichloropropene
0.50 U	71-43-2	Benzene
0.50 U	107-06-2	1,2-Dichloroethane
0.50 U	79-01-6	Trichloroethene

VBLKZ7

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER Lab Sample ID: VBLKZ7

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LMQB02D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

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

74-95-3	Dibromomethane	0.50 U
78-87-5	1,2-Dichloropropane	0.50 U
80-62-6	Methyl Methacrylate	0.50 U
75-27-4	Bromodichloromethane	0.50 U
107-14-2	Chloroacetoneitrile	25 U
10061-01-5	cis-1,3-Dichloropropene	0.50 U
513-88-2	1,1-Dichloropropane	25 U
108-10-1	4-Methyl-2-Pentanone	2.5 U
79-46-9	2-Nitropropane	25 U
108-88-3	Toluene	0.50 U
10061-02-6	trans-1,3-Dichloropropene	0.50 U
97-63-2	Ethyl Methacrylate	0.50 U
79-00-5	1,1,2-Trichloroethane	0.50 U
127-18-4	Tetrachloroethene	0.50 U
142-28-9	1,3-Dichloropropane	0.50 U
591-78-6	2-Hexanone	2.5 U
124-48-1	Dibromochloromethane	0.50 U
106-93-4	1,2-Dibromomethane	0.50 U
108-90-7	Chlorobenzene	0.50 U
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U
100-41-4	Ethylbenzene	0.50 U
1330-20-7	m- & p-Xylene	0.50 U
95-47-6	o-Xylene	0.50 U
100-42-5	Styrene	0.50 U
75-25-2	Bromofom	0.50 U
1330-20-7	Xylene (total)	0.50 U
98-82-8	Isopropylbenzene	0.50 U
108-86-1	Bromobenzene	0.50 U
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U
96-18-4	1,2,3-Trichloropropane	0.50 U
110-57-6	trans-1,4-Dichloro-2-butene	0.50 U
95-49-8	2-Chlorotoluene	0.50 U
106-43-4	4-Chlorotoluene	0.50 U



VBLKZ7

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: VBLKZ7

Matrix: (soil/water) WATER

Lab File ID: LMQB02D

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

Date Received:

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

COMPOUND

CAS NO.

0.50 U	n-Propylbenzene	103-65-1
0.50 U	1,3,5-Trimethylbenzene	108-67-8
0.50 U	Pentachloroethane	76-01-7
0.50 U	tert-Butylbenzene	98-06-6
0.50 U	1,2,4-Trimethylbenzene	95-63-6
0.50 U	sec-Butylbenzene	135-98-8
0.50 U	1,3-Dichlorobenzene	541-73-1
0.50 U	p-Isopropyltoluene	99-87-6
0.50 U	1,4-Dichlorobenzene	106-46-7
0.50 U	1,2-Dichlorobenzene	95-50-1
0.50 U	n-Butylbenzene	104-51-8
0.50 U	Hexachloroethane	67-72-1
0.50 U	1,2-Dibromo-3-Chloropropane	96-12-8
0.25 U	Nitrobenzene	98-95-3
0.50 U	1,2,4-Trichlorobenzene	120-82-1
0.50 U	Hexachlorobutadiene	87-68-3
0.50 U	Naphthalene	91-20-3
0.50 U	1,2,3-Trichlorobenzene	87-61-6

VBLKZ9

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: VBLKZ9

Matrix: (soil/water) WATER

Lab File ID: LMQB02E

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

Date Received:

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) UG/L
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
60-29-7	Diethyl Ether	0.50 U
75-35-4	1,1-Dichloroethene	0.50 U
67-64-1	Acetone	5.0 U
74-88-4	Methyl Iodide	0.50 U
75-15-0	Carbon Disulfide	0.50 U
107-05-1	Allyl Chloride	0.50 U
75-09-2	Methylene Chloride	0.44 U
107-13-1	Acrylonitrile	0.50 U
156-60-5	trans-1,2-Dichloroethene	0.50 U
1634-04-4	Methyl-t-Butyl Ether	0.50 U
75-34-3	1,1-Dichloroethane	0.50 U
594-20-7	2,2-Dichloropropane	0.50 U
156-59-2	cis-1,2-Dichloroethene	0.50 U
78-93-3	2-Butanone	5.0 U
107-12-0	Propionitrile	25 U
96-33-3	Methyl Acrylate	0.50 U
74-97-5	Bromochloromethane	0.50 U
126-98-7	Methacrylonitrile	0.50 U
109-99-9	Tetrahydrofuran	2.5 U
67-66-3	Chloroform	0.50 U
71-55-6	1,1,1-Trichloroethane	0.50 U
109-69-3	1-Chlorobutane	0.50 U
56-23-5	Carbon Tetrachloride	0.50 U
563-58-6	1,1-Dichloropropene	0.50 U
71-43-2	Benzene	0.50 U
107-06-2	1,2-Dichloroethane	0.50 U
79-01-6	Trichloroethene	0.50 U



VBLKZ9

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER Lab Sample ID: VBLKZ9

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LMQB02E

Level: (low/med) LOW

Date Received: \_\_\_\_\_  
Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

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

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

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

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
74-95-3	Dibromomethane	0.50 U
78-87-5	1,2-Dichloropropane	0.50 U
80-62-6	Methyl Methacrylate	0.50 U
75-27-4	Bromodichloromethane	0.50 U
107-14-2	Chloroacetonitrile	25 U
10061-01-5	cis-1,3-Dichloropropene	0.50 U
513-88-2	1,1-Dichloropropane	25 U
108-10-1	4-Methyl-2-Pentanone	2.5 U
79-46-9	2-Nitropropane	25 U
108-88-3	Toluene	0.50 U
10061-02-6	trans-1,3-Dichloropropene	0.50 U
97-63-2	Ethyl Methacrylate	0.50 U
79-00-5	1,1,2-Trichloroethane	0.50 U
127-18-4	Tetrachloroethene	0.50 U
142-28-9	1,3-Dichloropropane	0.50 U
591-78-6	2-Hexanone	2.5 U
124-48-1	Dibromochloromethane	0.50 U
106-93-4	1,2-Dibromomethane	0.50 U
108-90-7	Chlorobenzene	0.50 U
630-20-6	1,1,1,2-Tetrachloroethane	0.50 U
100-41-4	Ethylbenzene	0.50 U
1330-20-7	m- & p-Xylene	0.50 U
95-47-6	o-Xylene	0.50 U
100-42-5	Styrene	0.50 U
75-25-2	Bromform	0.50 U
1330-20-7	Xylene (total)	0.50 U
98-82-8	Isopropylbenzene	0.50 U
108-86-1	Bromobenzene	0.50 U
79-34-5	1,1,2,2-Tetrachloroethane	0.50 U
96-18-4	1,2,3-Trichloropropane	0.50 U
110-57-6	trans-1,4-Dichloro-2-butene	0.50 U
95-49-8	2-Chlorotoluene	0.50 U
106-43-4	4-Chlorotoluene	0.50 U

VBLKZ9

Contract: 98011

Lab Name: STL BURLINGTON

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER

Lab Sample ID: VBLKZ9

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

Lab File ID: LMQB02E

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

103-65-1	n-Propylbenzene	0.50 U
108-67-8	1,3,5-Trimethylbenzene	0.50 U
76-01-7	Pentachloroethane	0.50 U
98-06-6	tert-Butylbenzene	0.50 U
95-63-6	1,2,4-Trimethylbenzene	0.50 U
135-98-8	sec-Butylbenzene	0.50 U
541-73-1	1,3-Dichlorobenzene	0.50 U
99-87-6	p-Isopropyltoluene	0.50 U
106-46-7	1,4-Dichlorobenzene	0.50 U
95-50-1	1,2-Dichlorobenzene	0.50 U
104-51-8	n-Butylbenzene	0.50 U
67-72-1	Hexachloroethane	0.50 U
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U
98-95-3	Nitrobenzene	0.25 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

TR2085MS

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Lab Code: STLVT

Lab Sample ID: 483249MS

Matrix: (soil/water) WATER

Lab File ID: 483249DM

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 22.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

50	Dichlorodifluoromethane	75-71-8
51	Chloromethane	74-87-3
46	Vinyl Chloride	75-01-4
54	Bromomethane	74-83-9
48	Chloroethane	75-00-3
48	Trichlorofluoromethane	75-69-4
48	Diethyl Ether	60-29-7
50	1,1-Dichloroethene	75-35-4
45	Acetone	67-64-1
120	Methyl Iodide	74-88-4
56	Carbon Disulfide	75-15-0
66	Allyl Chloride	107-05-1
43	Methylene Chloride	75-09-2
48	B	107-13-1
44	Acrylonitrile	107-13-1
46	trans-1,2-Dichloroethene	156-60-5
49	Methyl-t-Butyl Ether	1634-04-4
49	1,1-Dichloroethane	75-34-3
49	2,2-Dichloropropane	594-20-7
45	cis-1,2-Dichloroethene	156-59-2
77	2-Butanone	78-93-3
140	Propionitrile	107-12-0
2500	Methyl Acrylate	96-33-3
53	Bromochloromethane	74-97-5
48	Methacrylonitrile	126-98-7
42	Tetrahydrofuran	109-99-9
240	Chloroform	67-66-3
46	1,1,1-Trichloroethane	71-55-6
46	1-Chlorobutane	109-69-3
48	Carbon Tetrachloride	56-23-5
45	1,1-Dichloropropene	563-58-6
48	Benzene	71-43-2
46	1,2-Dichloroethane	107-06-2
50	Trichloroethene	79-01-6

TR2085MS

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Lab Code: STLVT

Case No.: 98011

Lab Sample ID: 483249MS

Matrix: (soil/water) WATER

Lab File ID: 483249DM

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 22.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

Q

COMPOUND

CAS NO.

50	Dibromomethane	74-95-3
46	1,2-Dichloropropane	78-87-5
41	Methyl Methacrylate	80-62-6
45	Bromodichloromethane	75-27-4
2200	Chloroacetoneitrile	107-14-2
47	cis-1,3-Dichloropropene	10061-01-5
2600	1,1-Dichloropropane	513-88-2
210	4-Methyl-2-Pentanone	108-10-1
2600	2-Nitropropane	79-46-9
45	Toluene	108-88-3
44	trans-1,3-Dichloropropene	10061-02-6
47	Ethyl Methacrylate	97-63-2
47	1,1,2-Trichloroethane	79-00-5
110	Tetrachloroethene	127-18-4
46	1,3-Dichloropropane	142-28-9
44	2-Hexanone	591-78-6
43	Dibromochloromethane	124-48-1
44	1,2-Dibromoethane	106-93-4
44	Chlorobenzene	108-90-7
44	1,1,1,2-Tetrachloroethane	630-20-6
44	Ethylbenzene	100-41-4
91	m- & p-Xylene	1330-20-7
43	o-Xylene	95-47-6
44	Styrene	100-42-5
40	Bromofom	75-25-2
140	Xylene (total)	1330-20-7
43	Isopropylbenzene	98-82-8
45	Bromobenzene	108-86-1
51	1,1,2,2-Tetrachloroethane	79-34-5
50	1,2,3-Trichloropropane	96-18-4
41	trans-1,4-Dichloro-2-butene	110-57-6
44	2-Chlorotoluene	95-49-8
42	4-Chlorotoluene	106-43-4

TR2085MS

Contract: 98011

Lab Name: STL BURLINGTON

Lab Sample ID: 483249MS

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab File ID: 483249DM

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

Matrix: (soil/water) WATER

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 22.0

ID: 0.53 (mm)

GC Column: CAP

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

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

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

CAS NO. COMPOUND

43	n-Propylbenzene	103-65-1
43	1,3,5-Trimethylbenzene	108-67-8
43	Pentachloroethane	76-01-7
57	tert-Butylbenzene	98-06-6
46	1,2,4-Trimethylbenzene	95-63-6
42	sec-Butylbenzene	135-98-8
44	1,3-Dichlorobenzene	541-73-1
43	p-Isopropyltoluene	99-87-6
45	1,4-Dichlorobenzene	106-46-7
44	1,2-Dichlorobenzene	95-50-1
46	n-Butylbenzene	104-51-8
45	Hexachloroethane	67-72-1
44	1,2-Dibromo-3-Chloropropane	96-12-8
56	Nitrobenzene	98-95-3
1000	1,2,4-Trichlorobenzene	120-82-1
47	Hexachlorobutadiene	87-68-3
54	Naphthalene	91-20-3
45	1,2,3-Trichlorobenzene	87-61-6
49		

TR2085MSD

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483249MD

Matrix: (soil/water) WATER

Lab File ID: 483249DS

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 22.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

GAS NO.

COMPOUND

GAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L
75-71-8	Dichlorodifluoromethane	51
74-87-3	Chloromethane	50
75-01-4	Vinyl Chloride	46
74-83-9	Bromomethane	50
75-00-3	Chloroethane	49
75-69-4	Trichlorofluoromethane	51
60-29-7	Diethyl Ether	51
75-35-4	1,1-Dichloroethene	49
67-64-1	Acetone	120
74-88-4	Methyl Iodide	58
75-15-0	Carbon Disulfide	66
107-05-1	Allyl Chloride	44
75-09-2	Methylene Chloride	50
107-13-1	Acrylonitrile	52
156-60-5	trans-1,2-Dichloroethene	45
1634-04-4	Methyl-t-Butyl Ether	48
75-34-3	1,1-Dichloroethane	48
594-20-7	2,2-Dichloropropane	46
156-59-2	cis-1,2-Dichloroethene	70
78-93-3	2-Butanone	120
107-12-0	Propionitrile	2500
96-33-3	Methyl Acrylate	41
74-97-5	Bromochloromethane	47
126-98-7	Methacrylonitrile	45
109-99-9	Tetrahydrofuran	250
67-66-3	Chloroform	44
71-55-6	1,1,1-Trichloroethane	47
109-69-3	1-Chlorobutane	48
56-23-5	Carbon Tetrachloride	46
563-58-6	1,1-Dichloropropene	47
71-43-2	Benzene	44
107-06-2	1,2-Dichloroethane	49
79-01-6	Trichloroethene	580



TR2085MSD

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: 483249MD

Matrix: (soil/water) WATER

Lab File ID: 483249DS

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 22.0

GC Column: CAP ID: 0.53 (mm)

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

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

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

CAS NO. COMPOUND

49	Dibromomethane	74-95-3
49	1,2-Dichloropropane	78-87-5
49	Methyl Methacrylate	80-62-6
39	Bromodichloromethane	75-27-4
46	Chloroacetoneitrile	107-14-2
2100	cis-1,3-Dichloropropene	10061-01-5
46	1,1-Dichloropropane	513-88-2
2500	4-Methyl-2-Pentanone	108-10-1
220	2-Nitropropane	79-46-9
2600	Toluene	108-88-3
46	trans-1,3-Dichloropropene	10061-02-6
45	Ethyl Methacrylate	97-63-2
45	1,1,2-Trichloroethane	79-00-5
47	Tetrachloroethene	127-18-4
39	1,3-Dichloropropane	142-28-9
46	2-Hexanone	591-78-6
98	Dibromochloromethane	124-48-1
42	1,2-Dibromoethane	106-93-4
47	Chlorobenzene	108-90-7
46	1,1,1,2-Tetrachloroethane	630-20-6
44	Ethylbenzene	100-41-4
44	m- & p-Xylene	1330-20-7
89	o-Xylene	95-47-6
45	Styrene	100-42-5
40	Bromofom	75-25-2
39	Xylene (total)	1330-20-7
140	Isopropylbenzene	98-82-8
43	Bromobenzene	108-86-1
45	1,1,2,2-Tetrachloroethane	79-34-5
50	1,2,3-Trichloropropane	96-18-4
52	trans-1,4-Dichloro-2-butene	110-57-6
44	2-Chlorotoluene	95-49-8
43	4-Chlorotoluene	106-43-4

TR2085MSD

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Lab Code: STLVT

Case No.: 98011

Lab Sample ID: 483249MD

Matrix: (soil/water) WATER

Lab File ID: 483249DS

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

Date Received: 04/11/02

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 22.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

43	n-Propylbenzene	103-65-1
43	-1,3,5-Trimethylbenzene	108-67-8
43	Pentachloroethane	76-01-7
58	tert-Butylbenzene	98-06-6
46	-1,2,4-Trimethylbenzene	95-63-6
44	sec-Butylbenzene	135-98-8
44	-1,3-Dichlorobenzene	541-73-1
43	-1,4-Dichlorobenzene	99-87-6
44	p-Isopropyltoluene	106-46-7
44	-1,2-Dichlorobenzene	95-50-1
46	n-Butylbenzene	104-51-8
46	Hexachloroethane	67-72-1
43	-1,2-Dibromo-3-Chloropropane	96-12-8
50	Nitrobenzene	98-95-3
1100	-1,2,4-Trichlorobenzene	120-82-1
47	Hexachlorobutadiene	87-68-3
56	Naphthalene	91-20-3
47	-1,2,3-Trichlorobenzene	87-61-6



LM0D LCS

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: LM0D LCS

Matrix: (soil/water) WATER

Lab File ID: LM001DQ

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

Date Received:

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND

Q

1.2	Dichlorodifluoromethane	75-71-8
1.2	Chloromethane	74-87-3
1.1	Vinyl Chloride	75-01-4
1.1	Bromomethane	74-83-9
1.0	Chloroethane	75-00-3
1.0	Trichlorofluoromethane	75-69-4
1.0	Diethyl Ether	60-29-7
1.2	1,1-Dichloroethene	75-35-4
1.0	Acetone	67-64-1
3.5	Methyl Iodide	74-88-4
1.3	Carbon Disulfide	75-15-0
1.6	Allyl Chloride	107-05-1
1.1	Methylene Chloride	75-09-2
1.2	Acrylonitrile	107-13-1
1.0	trans-1,2-Dichloroethene	156-60-5
1.0	Methyl-t-Butyl Ether	1634-04-4
1.1	1,1-Dichloroethane	75-34-3
1.1	2,2-Dichloropropane	594-20-7
1.0	cis-1,2-Dichloroethene	156-59-2
3.8	2-Butanone	78-93-3
54	Propionitrile	107-12-0
1.3	Methyl Acrylate	96-33-3
1.0	Bromochloromethane	74-97-5
0.68	Methacrylonitrile	126-98-7
5.7	Tetrahydrofuran	109-99-9
1.1	Chloroform	67-66-3
1.0	1,1,1-Trichloroethane	71-55-6
1.0	1-Chlorobutane	109-69-3
1.0	Carbon Tetrachloride	56-23-5
1.1	1,1-Dichloropropene	563-58-6
1.1	Benzene	71-43-2
1.1	1,2-Dichloroethane	107-06-2
0.98	Trichloroethene	79-01-6

VOLATILE ORGANICS ANALYSIS DATA SHEET

FORM 1

Lab Name: STL BURLINGTON Contract: 98011

LW0D LCS

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix: (soil/water) WATER Lab Sample ID: LW0D LCS

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LW0D10

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/kg) UG/L

74-95-3	Dibromomethane	1.0
78-87-5	1,2-Dichloropropane	1.1
80-62-6	Methyl Methacrylate	0.76
75-27-4	Bromodichloromethane	1.0
107-14-2	Chloroacetoneitrile	46
10061-01-5	cis-1,3-Dichloropropene	0.97
513-88-2	1,1-Dichloropropane	53
108-10-1	4-Methyl-2-Pentanone	4.5
79-46-9	2-Nitropropane	56
108-88-3	Toluene	1.0
10061-02-6	trans-1,3-Dichloropropene	0.95
97-63-2	Ethyl Methacrylate	0.86
79-00-5	1,1,2-Trichloroethane	1.0
127-18-4	Tetrachloroethene	0.96
142-28-9	1,3-Dichloropropane	0.99
591-78-6	2-Hexanone	2.0
124-48-1	Dibromochloromethane	1.0
106-93-4	1,2-Dibromoethane	1.0
108-90-7	Chlorobenzene	1.0
630-20-6	1,1,1,2-Tetrachloroethane	1.0
100-41-4	Ethylbenzene	1.0
1330-20-7	m- & p-Xylene	2.0
95-47-6	o-Xylene	1.0
100-42-5	Styrene	0.96
75-25-2	Bromoforn	0.94
1330-20-7	Xylene (total)	3.1
98-82-8	Isopropylbenzene	0.96
108-86-1	Bromobenzene	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.1
96-18-4	1,2,3-Trichloropropane	1.1
110-57-6	trans-1,4-Dichloro-2-butene	0.83
95-49-8	2-Chlorotoluene	0.99
106-43-4	4-Chlorotoluene	0.97

LWQD LCS

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: LWQD LCS

Matrix: (soil/water) WATER

Lab File ID: LWQ01DQ

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

Date Received:

Level: (low/med) LOW

Date Analyzed: 04/16/02

% Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

COMPOUND

CAS NO.

1.0	n-Propylbenzene	103-65-1
0.96	-1,3,5-Trimethylbenzene	108-67-8
1.0	Pentachloroethane	76-01-7
1.0	tert-Butylbenzene	98-06-6
0.98	-1,2,4-Trimethylbenzene	95-63-6
1.0	sec-Butylbenzene	135-98-8
0.95	-1,3-Dichlorobenzene	541-73-1
1.0	p-Isopropyltoluene	99-87-6
1.0	-1,4-Dichlorobenzene	106-46-7
1.1	-1,2-Dichlorobenzene	95-50-1
1.1	n-Butylbenzene	104-51-8
0.92	Hexachloroethane	67-72-1
1.2	-1,2-Dibromo-3-Chloropropane	96-12-8
32	Nitrobenzene	98-95-3
1.2	-1,2,4-Trichlorobenzene	120-82-1
1.3	Hexachlorobutadiene	87-68-3
1.1	Naphthalene	91-20-3
1.2	-1,2,3-Trichlorobenzene	87-61-6

Lab Name: STL BURLINGTON  
Contract: 98011

LMQE LCS

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

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

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: LMQ01EQ

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

& Moisture: not dec. Date Analyzed: 04/16/02

GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.0

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

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

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

75-71-8	Dichlorodifluoromethane	1.3
74-87-3	Chloromethane	1.3
75-01-4	Vinyl Chloride	1.2
74-83-9	Bromomethane	1.4
75-00-3	Chloroethane	1.2
75-69-4	Trichlorofluoromethane	1.2
60-29-7	Diethyl Ether	1.1
75-35-4	1,1-Dichloroethene	1.0
67-64-1	Acetone	6.0
74-88-4	Methyl Iodide	1.4
75-15-0	Carbon Disulfide	1.7
107-05-1	Allyl Chloride	1.0
75-09-2	Methylene Chloride	1.6
107-13-1	Acrylonitrile	1.3
156-60-5	trans-1,2-Dichloroethene	0.99
1634-04-4	Methyl-t-Butyl Ether	1.2
75-34-3	1,1-Dichloroethane	1.2
594-20-7	2,2-Dichloropropane	1.1
156-59-2	cis-1,2-Dichloroethene	1.0
78-93-3	2-Butanone	4.2
107-12-0	Propionitrile	57
96-33-3	Methyl Acrylate	1.1
74-97-5	Bromochloromethane	1.1
126-98-7	Methacrylonitrile	0.94
109-99-9	Tetrahydrofuran	5.4
67-66-3	Chloroform	1.0
71-55-6	1,1,1-Trichloroethane	1.0
109-69-3	1-Chlorobutane	1.1
56-23-5	Carbon Tetrachloride	1.0
563-58-6	1,1-Dichloropropene	1.1
71-43-2	Benzene	1.1
107-06-2	1,2-Dichloroethane	1.1
79-01-6	Trichloroethene	1.0

LWQE LCS

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Lab Sample ID: LWQE LCS

Matrix: (soil/water) WATER

Lab File ID: LWQ01EQ

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

Date Received:

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

Soil Aliquot Volume: (uL)

Soil Extract Volume: (uL)

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

CAS NO. COMPOUND

1.0	Dibromomethane	74-95-3
1.0	1,2-Dichloropropane	78-87-5
0.87	Methyl Methacrylate	80-62-6
1.0	Bromodichloromethane	75-27-4
45	Chloroacetoneitrile	107-14-2
1.2	cis-1,3-Dichloropropene	10061-01-5
57	1,1-Dichloropropane	513-88-2
5.4	4-Methyl-2-Pentanone	108-10-1
58	2-Nitropropane	79-46-9
1.2	Toluene	108-88-3
1.0	trans-1,3-Dichloropropene	10061-02-6
0.89	Ethyl Methacrylate	97-63-2
1.1	1,1,2-Trichloroethane	79-00-5
0.98	Tetrachloroethene	127-18-4
1.1	1,3-Dichloropropane	142-28-9
3.5	2-Hexanone	591-78-6
0.86	Dibromochloromethane	124-48-1
0.89	1,2-Dibromomethane	106-93-4
0.98	Chlorobenzene	108-90-7
0.89	1,1,1,2-Tetrachloroethane	630-20-6
0.93	Ethylbenzene	100-41-4
1.9	m- & p-Xylene	1330-20-7
0.93	o-Xylene	95-47-6
0.86	Styrene	100-42-5
0.88	Bromofom	75-25-2
2.9	Xylene (total)	1330-20-7
0.92	Isopropylbenzene	98-82-8
0.91	Bromobenzene	108-86-1
1.1	1,1,2,2-Tetrachloroethane	79-34-5
0.98	1,2,3-Trichloropropane	96-18-4
0.70	trans-1,4-Dichloro-2-butene	110-57-6
0.88	2-Chlorotoluene	95-49-8
0.87	4-Chlorotoluene	106-43-4

LMQE LCS

Contract: 98011

Lab Name: STL BURLINGTON

SDG No.: 87428

SAS No.: Case No.: 98011

Lab Code: STLVT

Lab Sample ID: LMQE LCS

Matrix: (soil/water) WATER

Lab File ID: LMQ01EQ

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

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

Level: (low/med) LOW

Date Analyzed: 04/16/02

& Moisture: not dec.

Dilution Factor: 1.0

GC Column: CAP ID: 0.53 (mm)

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

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

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

Q

COMPOUND

CAS NO.

0.86	n-Propylbenzene	103-65-1
0.94	-1,3,5-Trimethylbenzene	108-67-8
1.4	Pentachloroethane	76-01-7
0.98	tert-Butylbenzene	98-06-6
0.96	-1,2,4-Trimethylbenzene	95-63-6
0.98	sec-Butylbenzene	135-98-8
0.89	-1,3-Dichlorobenzene	541-73-1
0.96	p-Isopropyltoluene	99-87-6
1.0	-1,4-Dichlorobenzene	106-46-7
0.97	-1,2-Dichlorobenzene	95-50-1
1.1	n-Butylbenzene	104-51-8
1.1	Hexachloroethane	67-72-1
1.2	-1,2-Dibromo-3-Chloropropane	96-12-8
28	Nitrobenzene	98-95-3
1.1	-1,2,4-Trichlorobenzene	120-82-1
1.3	Hexachlorobutadiene	87-68-3
1.1	Naphthalene	91-20-3
1.2	-1,2,3-Trichlorobenzene	87-61-6



FORM 2  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLV Case No.: 98011 SAS No.: SDG No.: 87428

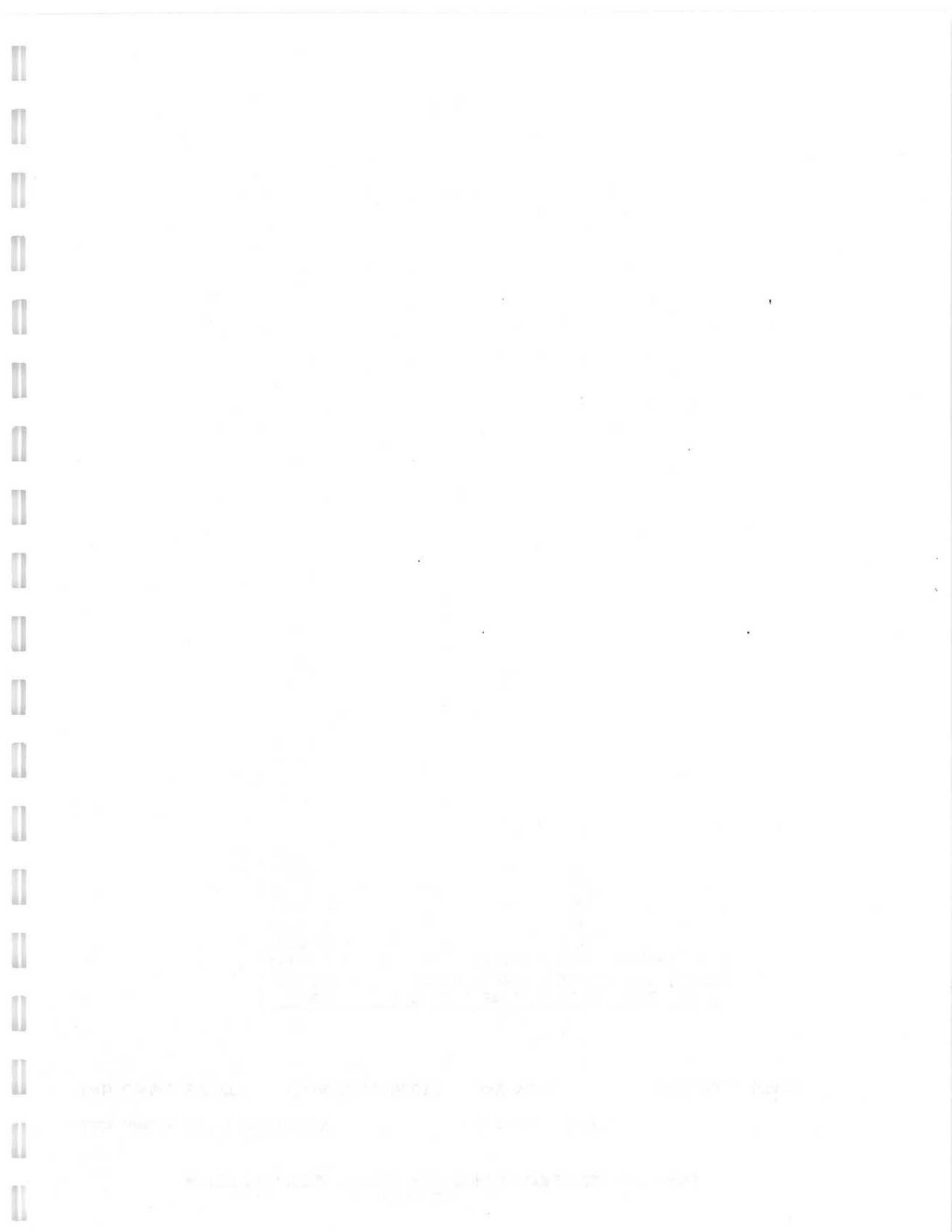
CLIENT	SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER #	TOT
LMQD LCS	109	98	104	99	99	0
VBLKZ7	116	80*	89	94	94	1
ARD2169	115	94	99	101	101	0
ARD2170	121	87	96	104	104	0
ARD2172	115	92	100	101	101	0
ARD2173	116	85	94	94	94	0
TR2082	124	91	100	104	104	0
TR2084	113	91	97	94	94	0
TR2085	122	85	98	105	105	0
TR2085MS	116	100	105	107	107	0
TR2085MSD	113	97	102	99	99	0
TR2086	114	85	94	103	103	0
TR2087	118	89	98	91	91	0
TR2088	128	86	96	102	102	0
TR2089	120	91	101	107	107	0
TR0035	122	91	96	100	100	0
TR0036	124	83	95	96	96	0
ARD2168	118	88	100	97	97	0
LMQD LCS	113	90	94	110	110	0
VBLKZ9	108	80	93	91	91	0
TR2081	127	101	106	107	107	0
TR2083	115	86	98	109	109	0

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: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix Spike - ENGSC2 Sample No.: TR2085

QC LIMITS	MS REC #	MS CONCENTRATION (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE ADDED (ug/L)	COMPOUND
	114	50	0.0	44	Dichlorodifluoromethane
	116	51	0.0	44	Chloromethane
	104	46	0.0	44	Vinyl Chloride
	123	54	0.0	44	Bromomethane
	109	48	0.0	44	Chloroethane
	109	48	0.0	44	Trichlorofluoromethane
	114	50	0.0	44	Diethyl Ether
	102	45	0.0	44	1,1-Dichloroethene
	54*	120	0.0	220	Acetone
	127	56	0.0	44	Methyl Iodide
	150*	66	0.0	44	Carbon Disulfide
	98	43	0.0	44	Allyl Chloride
	109	48	0.0	44	Methylene Chloride
	100	44	0.0	44	Acrylonitrile
	104	46	0.0	44	trans-1,2-Dichloroethen
	111	49	0.0	44	Methyl-t-Butyl Ether
	111	49	0.0	44	1,1-Dichloroethane
	102	45	0.0	44	2,2-Dichloropropane
	111	77	28	44	cis-1,2-Dichloroethene
	64*	140	0.0	220	2-Butanone
	114	2500	0.0	2200	Propionitrile
	120	53	0.0	44	Methyl Acrylate
	109	48	0.0	44	Bromochloromethane
	95	42	0.0	44	Methacrylonitrile
	109	240	0.0	220	Tetrahydrofuran
	104	46	0.0	44	Chloroform
	104	46	0.0	44	1,1,1-Trichloroethane
	109	48	0.0	44	1-Chlorobutane

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

\* Values outside of QC limits

COMMENTS:

FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix Spike - ENGSC2 Sample No.: TR2085

QC LIMITS	MS REC #	MS CONCENTRATION (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE ADDED (ug/L)	COMPOUND
					Carbon Tetrachloride
		45	0.0	44	1,1-Dichloropropene
		48	0.0	44	Benzene
		46	0.0	44	1,2-Dichloroethane
		50	0.0	44	Trichloroethene
		580	540	44	Dibromomethane
		50	0.0	44	1,2-Dichloroethane
		114	0.0	44	Dibromomethane
		41	0.0	44	1,2-Dichloropropene
		46	0.0	44	Methyl Methacrylate
		93	0.0	44	Bromodichloromethane
		45	0.0	44	Chloroacetoneitrile
		2200	0.0	2200	cis-1,3-Dichloropropene
		47	0.0	44	1,1-Dichloropropene
		2600	0.0	2200	4-Methyl-2-Pentanone
		210	0.0	220	2-Nitropropane
		45	0.0	44	Toluene
		44	0.0	44	trans-1,3-Dichloropropene
		47	0.0	44	Ethyl Methacrylate
		47	0.0	44	1,1,2-Trichloroethane
		38	0.0	44	Tetrachloroethene
		46	0.0	44	1,3-Dichloropropene
		110	0.0	220	2-Hexanone
		43	0.0	44	Dibromochloromethane
		44	0.0	44	1,2-Dibromomethane
		44	0.0	44	Chlorobenzene
		46	0.0	44	1,1,1,2-Tetrachloroethane
		44	0.0	44	Ethylbenzene
		91	0.0	88	m- & p-Xylene
		43	0.0	44	o-Xylene

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

\* Values outside of QC limits

COMMENTS:

FORM 3  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix Spike - ENGS2 sample No.: TR2085

QC LIMITS	MS REC #	MS CONCENTRATION (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE ADDED (ug/L)	COMPOUND
	100	44	0.0	44	Styrene
	91	40	0.0	44	Bromform
	108	140	0.0	130	Xylene (total)
	98	43	0.0	44	Isopropylbenzene
	102	45	0.0	44	Bromobenzene
	116	51	0.0	44	1,1,2,2-Tetrachloroetha
	114	50	0.0	44	1,2,3-Trichloropropane
	93	41	0.0	44	trans-1,4-Dichloro-2-bu
	100	44	0.0	44	2-Chlorotoluene
	95	42	0.0	44	4-Chlorotoluene
	98	43	0.0	44	n-Propylbenzene
	98	43	0.0	44	1,3,5-Trimethylbenzene
	130	57	0.0	44	Pentachloroethane
	104	46	0.0	44	tert-Butylbenzene
	95	42	0.0	44	1,2,4-Trimethylbenzene
	100	44	0.0	44	sec-Butylbenzene
	70-130	44	0.0	44	1,3-Dichlorobenzene
	70-130	45	0.0	44	p-Isopropyltoluene
	70-130	44	0.0	44	1,4-Dichlorobenzene
	70-130	46	0.0	44	1,2-Dichlorobenzene
	102	45	0.0	44	n-Butylbenzene
	100	44	0.0	44	Hexachloroethane
	70-130	56	0.0	44	1,2-Dibromo-3-chloropro
	127	1000	0.0	2200	Nitrobenzene
	45*		0.0		
	70-130	47	0.0	44	1,2,4-Trichlorobenzene
	70-130	54	0.0	44	Hexachlorobutadiene
	123	45	0.0	44	Naphthalene
	70-130	49	0.0	44	1,2,3-Trichlorobenzene

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

\* Values outside of QC limits

COMMENTS:



FORM 3  
WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix Spike - ENGS2 Sample No.: TR2085

SPIKE	ADDED	CONCENTRATION	MSD	REC #	%	RPD #	%	RPD #	QC LIMITS	REC.
44	44	46	104	2	40	70-130	40	2	40	70-130
44	44	47	107	2	40	70-130	40	2	40	70-130
44	44	44	100	4	40	70-130	40	4	40	70-130
44	44	49	111	3	40	70-130	40	3	40	70-130
44	44	49	111	6	40	70-130	40	6	40	70-130
44	44	39	89	4	40	70-130	40	4	40	70-130
44	44	46	104	4	40	70-130	40	4	40	70-130
44	44	49	111	3	40	70-130	40	3	40	70-130
44	44	580	91	0	40	70-130	40	0	40	70-130
44	44	49	111	3	40	70-130	40	3	40	70-130
44	44	46	104	2	40	70-130	40	2	40	70-130
2200	2200	2100	95	5	40	70-130	40	5	40	70-130
44	44	46	104	3	40	70-130	40	3	40	70-130
2200	2200	2500	114	3	40	70-130	40	3	40	70-130
220	220	220	100	5	40	70-130	40	5	40	70-130
2200	2200	2600	118	0	40	70-130	40	0	40	70-130
44	44	46	104	2	40	70-130	40	2	40	70-130
44	44	45	102	2	40	70-130	40	2	40	70-130
44	44	45	102	5	40	70-130	40	5	40	70-130
44	44	47	107	0	40	70-130	40	0	40	70-130
44	44	39	89	3	40	70-130	40	3	40	70-130
44	44	46	104	0	40	70-130	40	0	40	70-130
44	44	47	107	0	40	70-130	40	0	40	70-130
44	44	42	95	3	40	70-130	40	3	40	70-130
44	44	47	107	7	40	70-130	40	7	40	70-130
44	44	46	104	0	40	70-130	40	0	40	70-130
44	44	44	100	0	40	70-130	40	0	40	70-130
44	44	44	100	0	40	70-130	40	0	40	70-130
88	88	89	101	2	40	70-130	40	2	40	70-130
44	44	45	102	4	40	70-130	40	4	40	70-130

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

\* Values outside of QC limits

COMMENTS:

FORM 3 WATER VOLATILE MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix Spike - ENGSC2 Sample No.: TR2085

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD %	REC #	RPD #	%	RPD #	QC LIMITS	REC.
Styrene	44	40	91	9	40	9	40	70-130	40
Bromofom	44	39	89	2	40	2	40	70-130	40
Xylene (total)	130	140	108	0	40	0	40	70-130	40
Isopropylbenzene	44	43	98	0	40	0	40	70-130	40
Bromobenzene	44	45	102	0	40	0	40	70-130	40
1,1,2,2-Tetrachloroetha	44	50	114	2	40	2	40	70-130	40
1,2,3-Trichloropropane	44	52	118	3	40	3	40	70-130	40
trans-1,4-Dichloro-2-bu	44	44	100	7	40	7	40	70-130	40
2-Chlorotoluene	44	43	98	2	40	2	40	70-130	40
4-Chlorotoluene	44	43	98	3	40	3	40	70-130	40
n-Propylbenzene	44	43	98	0	40	0	40	70-130	40
1,3,5-Trimethylbenzene	44	43	98	0	40	0	40	70-130	40
sec-Butylbenzene	44	44	100	0	40	0	40	70-130	40
1,3-Dichlorobenzene	44	43	98	0	40	0	40	70-130	40
p-Isopropyltoluene	44	44	100	2	40	2	40	70-130	40
1,4-Dichlorobenzene	44	44	100	0	40	0	40	70-130	40
1,2-Dichlorobenzene	44	46	104	0	40	0	40	70-130	40
n-Butylbenzene	44	46	104	2	40	2	40	70-130	40
Hexachloroethane	44	43	98	2	40	2	40	70-130	40
1,2-Dibromo-3-Chloropro	44	50	114	11	40	11	40	70-130	40
Nitrobenzene	2200	1100	50*	10	40	10	40	70-130	40
1,2,4-Trichlorobenzene	44	47	107	0	40	0	40	70-130	40
Hexachlorobutadiene	44	56	127	3	40	3	40	70-130	40
Naphthalene	44	47	107	5	40	5	40	70-130	40
1,2,3-Trichlorobenzene	44	50	114	3	40	3	40	70-130	40

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

\* Values outside of QC limits

RPD: 0 out of 84 outside limits  
Spike Recovery: 12 out of 168 outside limits

COMMENTS:



FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.:

SDG No.: 87428 Matrix Spike - Sample No.: LWQD LCS

QC	LCS	LCS	SAMPLE	SPIKE	COMPOUND
REC. LIMITS	REC #	CONCENTRATION (ug/L)	CONCENTRATION (ug/L)	ADDED (ug/L)	
		=====	=====	=====	=====
		1.2		1.0	Dichlorodifluoromethane
		1.2		1.0	Chloromethane
		1.1		1.0	Vinyl Chloride
		1.1		1.0	Bromomethane
		1.1		1.0	Chloroethane
		1.0		1.0	Trichlorofluoromethane
		1.0		1.0	Diethyl Ether
		1.2		1.0	1,1-Dichloroethene
		1.0		1.0	Acetone
		3.5		5.0	Methyl Iodide
		1.3		1.0	Carbon Disulfide
		1.6		1.0	Allyl Chloride
		1.1		1.0	Methylene Chloride
		1.2		1.0	Acrylonitrile
		1.2		1.0	trans-1,2-Dichloroethen
		1.0		1.0	Methyl-t-Butyl Ether
		1.1		1.0	1,1-Dichloroethane
		1.1		1.0	2,2-Dichloropropane
		1.0		1.0	cis-1,2-Dichloroethene
		3.8		5.0	2-Butanone
		54		50	Propionitrile
		1.3		1.0	Methyl Acrylate
		1.0		1.0	Bromochloromethane
		0.68		1.0	Methacrylonitrile
		68*		5.0	Tetrahydrofuran
		5.7		1.0	Chloroform
		1.1		1.0	1,1,1-Trichloroethane
		1.0		1.0	1-Chlorobutane

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

\* Values outside of QC limits

COMMENTS:

COMMENTS:

\* Values outside of QC limits

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

QC LIMITS	REC #	LCS CONCENTRATION (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE ADDED (ug/L)	COMPOUND
	100	1.0		1.0	Carbon Tetrachloride
	110	1.1		1.0	1,1-Dichloropropene
	110	1.1		1.0	Benzene
	110	1.1		1.0	1,2-Dichloroethane
	110	1.1		1.0	Trichloroethene
	98	0.98		1.0	Dibromomethane
	100	1.0		1.0	1,2-Dichloropropane
	110	1.1		1.0	Methyl Methacrylate
	76	0.76		1.0	Bromodichloromethane
	100	1.0		1.0	Chloroacetonitrile
	92	46		50	cis-1,3-Dichloropropene
	97	0.97		1.0	1,1-Dichloropropane
	106	53		50	4-Methyl-2-Pentanone
	90	4.5		5.0	2-Nitropropane
	112	56		50	Toluene
	100	1.0		1.0	trans-1,3-Dichloropropene
	95	0.95		1.0	Ethyl Methacrylate
	86	0.86		1.0	1,1,2-Trichloroethane
	100	1.0		1.0	Tetrachloroethene
	99	0.99		1.0	1,3-Dichloropropane
	40*	2.0		5.0	2-Hexanone
	100	1.0		1.0	Dibromochloromethane
	100	1.0		1.0	1,2-Dibromoethane
	100	1.0		1.0	Chlorobenzene
	100	1.0		1.0	1,1,1,2-Tetrachloroethane
	100	1.0		1.0	Ethylbenzene
	100	1.0		2.0	m- & p-Xylene
	100	1.0		1.0	o-Xylene

Matrix Spike - Sample No.: LM0D LCS

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Lab Name: STL BURLINGTON Contract: 98011



FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVLT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix Spike - Sample No.: LW0D LCS

QC	LCS	LCS	SAMPLE	ADDED	SPIKE	COMPOUND
REC. #	REC. #	CONCENTRATION (ug/L)	CONCENTRATION (ug/L)	CONCENTRATION (ug/L)	CONCENTRATION (ug/L)	
	96	0.96		1.0	1.0	Styrene
	94	0.94		1.0	1.0	Bromofom
	103	3.1		3.0	3.0	Xylene (total)
	96	0.96		1.0	1.0	Isopropylbenzene
	110	1.1		1.0	1.0	Bromobenzene
	110	1.1		1.0	1.0	1,1,2,2-Tetrachloroetha
	110	1.1		1.0	1.0	1,2,3-Trichloropropane
	83	0.83		1.0	1.0	trans-1,4-Dichloro-2-bu
	99	0.99		1.0	1.0	2-Chlorotoluene
	97	0.97		1.0	1.0	4-Chlorotoluene
	100	1.0		1.0	1.0	n-Propylbenzene
	96	0.96		1.0	1.0	1,3,5-Trimethylbenzene
	100	1.0		1.0	1.0	Pentachloroethane
	98	0.98		1.0	1.0	tert-Butylbenzene
	100	1.0		1.0	1.0	1,2,4-Trimethylbenzene
	95	0.95		1.0	1.0	sec-Butylbenzene
	100	1.0		1.0	1.0	1,3-Dichlorobenzene
	100	1.0		1.0	1.0	p-Isopropyltoluene
	110	1.1		1.0	1.0	1,4-Dichlorobenzene
	110	1.1		1.0	1.0	1,2-Dichlorobenzene
	110	1.1		1.0	1.0	n-Butylbenzene
	92	0.92		1.0	1.0	Hexachloroethane
	120	1.2		1.0	1.0	1,2-Dibromo-3-Chloropro
	64*	32		50	50	Nitrobenzene
	120	1.2		1.0	1.0	1,2,4-Trichlorobenzene
	130	1.3		1.0	1.0	Hexachlorobutadiene
	110	1.1		1.0	1.0	Naphthalene
	120	1.2		1.0	1.0	1,2,3-Trichlorobenzene

# 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 84 outside limits

COMMENTS:

FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Contract: 98011

Lab Name: STL BURLINGTON

SDG NO.: 87428

SAS No.:

Case No.: 98011

Lab Code: STLVT

Matrix Spike - Sample No.: LMQE LCS

QC: LIMITS	LCS REC #	LCS CONCENTRATION (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE ADDED (ug/L)	COMPOUND
				1.0	Dichlorodifluoromethane
				1.0	Chloromethane
				1.0	Vinyl Chloride
				1.0	Bromomethane
				1.0	Chloroethane
				1.0	Trichlorofluoromethane
				1.0	Diethyl Ether
				1.0	1,1-Dichloroethene
				5.0	Acetone
				1.0	Methyl Iodide
				1.0	Carbon Disulfide
				1.0	Allyl Chloride
				1.0	Methylene Chloride
				1.0	Acrylonitrile
				1.0	trans-1,2-Dichloroethen
				1.0	Methyl-t-Butyl Ether
				1.0	1,1-Dichloroethane
				1.0	2,2-Dichloropropane
				1.0	cis-1,2-Dichloroethene
				5.0	2-Butanone
				50	Propionitrile
				1.0	Methyl Acrylate
				1.0	Bromochloromethane
				1.0	Methacrylonitrile
				1.0	Tetrahydrofuran
				5.0	Chloroform
				1.0	1,1,1-Trichloroethane
				1.0	1-Chlorobutane

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

\* Values outside of QC limits

COMMENTS:

FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVLT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix Spike - Sample No.: LM0E LCS

QC LIMITS	Ics REC #	Ics CONCENTRATION (ug/L)	SAMPLE CONCENTRATION (ug/L)	SPIKE ADDED (ug/L)	COMPOUND
	100	1.0		1.0	Carbon Tetrachloride
	110	1.1		1.0	1,1-Dichloropropene
	110	1.1		1.0	Benzene
	110	1.1		1.0	1,2-Dichloroethane
	100	1.0		1.0	Trichloroethene
	100	1.0		1.0	Dibromomethane
	100	1.0		1.0	1,2-Dichloropropane
	100	1.0		1.0	Methyl Methacrylate
	87	0.87		1.0	Bromodichloromethane
	100	1.0		1.0	Chloroacetoneitrile
	90	45		50	cis-1,3-Dichloropropene
	120	1.2		1.0	1,1-Dichloropropane
	114	57		50	4-Methyl-2-Pentanone
	108	5.4		5.0	2-Nitropropane
	116	58		50	Toluene
	120	1.2		1.0	trans-1,3-Dichloropropene
	100	1.0		1.0	Ethyl Methacrylate
	89	0.89		1.0	1,1,2-Trichloroethane
	110	1.1		1.0	Tetrachloroethene
	98	0.98		1.0	1,3-Dichloropropane
	110	1.1		1.0	2-Hexanone
	70	3.5		5.0	Dibromochloromethane
	86	0.86		1.0	1,2-Dibromoethane
	89	0.89		1.0	Chlorobenzene
	98	0.98		1.0	1,1,1,2-Tetrachloroethane
	89	0.89		1.0	Ethylbenzene
	93	0.93		1.0	m- & p-Xylene
	95	1.9		2.0	o-Xylene
	93	0.93		1.0	
	93	0.93		1.0	

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

\* Values outside of QC limits

COMMENTS:

FORM 3  
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Matrix Spike - Sample No.: LMQE LCS

QC	LCS	LCS	SAMPLE	ADDED	COMPOUND
REC. LIMITS	REC #	CONCENTRATION (ug/L)	CONCENTRATION (ug/L)	(ug/L)	
	86	0.86		1.0	Styrene
	88	0.88		1.0	Bromofom
	97	2.9		3.0	Xylene (total)
	92	0.92		1.0	Isopropylbenzene
	91	0.91		1.0	Bromobenzene
	110	1.1		1.0	1,1,2,2-Tetrachloroetha
	98	0.98		1.0	1,2,3-Trichloropropane
	70	0.70		1.0	trans-1,4-Dichloro-2-bu
	88	0.88		1.0	2-Chlorotoluene
	87	0.87		1.0	4-Chlorotoluene
	86	0.86		1.0	n-Propylbenzene
	94	0.94		1.0	1,3,5-Trimethylbenzene
	140*	1.4		1.0	Pentachloroethane
	98	0.98		1.0	tert-Butylbenzene
	96	0.96		1.0	1,2,4-Trimethylbenzene
	98	0.98		1.0	sec-Butylbenzene
	89	0.89		1.0	1,3-Dichlorobenzene
	96	0.96		1.0	p-Isopropyltoluene
	100	1.0		1.0	1,4-Dichlorobenzene
	97	0.97		1.0	1,2-Dichlorobenzene
	110	1.1		1.0	n-Butylbenzene
	110	1.1		1.0	Hexachloroethane
	120	1.2		1.0	1,2-Dibromo-3-chloropro
	56*	28		50	Nitrobenzene
	110	1.1		1.0	1,2,4-Trichlorobenzene
	130	1.3		1.0	Hexachlorobutadiene
	110	1.1		1.0	1,2,3-Trichlorobenzene
	120	1.2		1.0	Naphthalene

# 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: 6 out of 84 outside limits

COMMENTS:

VBLKZ7

Lab Name: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Lab File ID: LMQB2D Lab Sample ID: VBLKZ7

Date Analyzed: 04/16/02 Time Analyzed: 0153

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

Instrument ID: L

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

SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LMQD LCS	LMQ01DQ	0042
02	ARD2169	483239	0302
03	ARD2170	483240	0331
04	ARD2172	483242	0400
05	ARD2173	483243	0429
06	TR2082	483246	0526
07	TR2084	483248	0623
08	TR2085	483249	0652
09	TR2085MS	483249DM	0720
10	TR2085MSD	483249DS	0749
11	TR2086	483250	0818
12	TR2087	483251	0846
13	TR2088	483252	0915
14	TR2089	483253	0943
15	TR0035	483255	1012
16	TR0036	483256	1041
17	ARD2168	483238	1110
18			
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COMMENTS:

COMMENTS:

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08			
07			
06			
05			
04			
03	TR2083	483247	LWQE LCS
02	TR2081	483245	LWQE LCS
01	LWQE LCS	LWQ1BQ	LWQE LCS
	SAMPLE NO.	SAMPLE ID	SAMPLE ID
	LAB	LAB	LAB
	=====	=====	=====
	1226	483245D2	483247D2
	1600		
	1629		
	ANALYZED	FILE ID	FILE ID
	TIME	LAB	LAB

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

Instrument ID: L

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

Date Analyzed: 04/16/02

Lab File ID: LWQ02E Lab Sample ID: VBLKZ9

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Lab Name: STL BURLINGTON

Contract: 98011

VBLKZ9

VOIATILE METHOD BLANK SUMMARY

FORM 4

CLIENT SAMPLE NO.



FORM 5  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Lab File ID: LM01PV BFB Injection Date: 03/26/02

Instrument ID: L BFB Injection Time: 0727

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.3
75	30.0 - 60.0% of mass 95	50.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	58.7
175	5.0 - 9.0% of mass 174	4.1 (7.0)1
176	95.0 - 101.0% of mass 174	57.6 (98.1)1
177	5.0 - 9.0% of mass 176	3.6 (6.2)2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0005	LMQ005V	03/26/02	0741
02	VSTD0002	LMQ02V	03/26/02	0809
03	VSTD010	LMQ10V	03/26/02	0838
04	VSTD020	LMQ20V	03/26/02	0906
05	VSTD030	LMQ30V	03/26/02	0935
06				
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FORM 5  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Lab File ID: LMQ05PV BFB Injection Date: 04/15/02

Instrument ID: L BFB Injection Time: 2341

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.7
75	30.0 - 60.0% of mass 95	50.1
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	60.0
175	5.0 - 9.0% of mass 174	4.4 (7.4)1
176	95.0 - 101.0% of mass 174	59.6 (99.4)1
177	5.0 - 9.0% of mass 176	4.2 (7.0)2

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	LMQ02DV	04/15/02	2359
02	LMQD LCS	LMQ01DQ	04/16/02	0042
03	VBLKZ7	LMQB02D	04/16/02	0153
04	ARD2169	483239	04/16/02	0302
05	ARD2170	483240	04/16/02	0331
06	ARD2172	483242	04/16/02	0400
07	ARD2173	483243	04/16/02	0429
08	TR2082	483246	04/16/02	0526
09	TR2084	483248	04/16/02	0623
10	TR2085	483249	04/16/02	0652
11	TR2085MS	483249MS	04/16/02	0720
12	TR2085MSD	483249MD	04/16/02	0749
13	TR2086	483250	04/16/02	0818
14	TR2087	483251	04/16/02	0846
15	TR2088	483252	04/16/02	0915
16	TR2089	483253	04/16/02	0943
17	TR0035	483255	04/16/02	1012
18	TR0036	483256	04/16/02	1041
19	ARD2168	483238	04/16/02	1110
20				
21				
22				



FORM 5  
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Lab File ID: LMQ08PV BFB Injection Date: 04/16/02

Instrument ID: L BFB Injection Time: 1148

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.5
75	30.0 - 60.0% of mass 95	53.2
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	0.3 ( 0.4)1
174	50.0 - 120.0% of mass 95	61.6
175	5.0 - 9.0% of mass 174	4.3 ( 6.9)1
176	95.0 - 101.0% of mass 174	59.4 ( 96.5)1
177	5.0 - 9.0% of mass 176	4.2 ( 7.0)2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD002	LMQ02EV	04/16/02	1157
02	LMQE LCS	LMQ01EQ	04/16/02	1226
03	VBLKZ9	LMQB02E	04/16/02	1421
04	TR2081	483245D	04/16/02	1600
05	TR2083	483247	04/16/02	1629
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6A  
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Contract: 98011

Lab Name: STL BURLINGTON

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Instrument ID: L Calibration Date(s): 03/26/02 03/26/02

Heated Purge: (Y/N) N Calibration Time(s): 0741 0935

GC Column: CAP ID: 0.53 (mm)

LAB FILE ID: RRF0.5=LWQ05V RRF2=LWQ2V RRF30=LWQ30V  
RRF10=LWQ10V

COMPOUND	RRF0.5	RRF2	RRF10	RRF20	RRF30	RRF	% RSD
Dichlorodifluoromethane	0.608	0.512	0.512	0.526	0.451	0.522	10.8
Chloromethane	0.424	0.349	0.353	0.355	0.343	0.365	9.2
Vinyl Chloride	0.400	0.322	0.332	0.358	0.315	0.345	10.0
Bromomethane	0.346	0.311	0.270	0.263	0.209	0.280	18.5
Chloroethane	0.229	0.203	0.196	0.210	0.200	0.208	6.2
Trichlorofluoromethane	0.582	0.530	0.574	0.568	0.553	0.561	3.7
Diethyl Ether	0.196	0.195	0.184	0.202	0.200	0.195	3.7
1,1-Dichloroethene	0.290	0.270	0.269	0.272	0.271	0.274	3.1
Acetone	0.168	0.158	0.158	0.147	0.135	0.153	8.2
Methyl Iodide	0.362	0.325	0.348	0.373	0.397	0.361	7.5
Carbon Disulfide	0.622	0.475	0.466	0.454	0.466	0.497	14.2
Allyl Chloride	0.635	0.528	0.524	0.511	0.518	0.543	9.5
Methylene Chloride	0.336	0.308	0.313	0.295	0.318	0.314	4.8
Acrylonitrile	0.085	0.076	0.060	0.060	0.059	0.068	17.7
trans-1,2-Dichloroethene	0.313	0.320	0.307	0.292	0.308	0.308	3.3
Methyl-t-Butyl Ether	0.602	0.628	0.573	0.628	0.611	0.608	3.7
1,1-Dichloroethane	0.728	0.747	0.702	0.692	0.668	0.707	4.3
2,2-Dichloropropane	0.567	0.564	0.507	0.475	0.457	0.514	9.7
cis-1,2-Dichloroethene	0.357	0.354	0.357	0.339	0.337	0.349	2.8
2-Butanone	0.028	0.038	0.041	0.039	0.036	0.036	13.3
Propionitrile	0.020	0.028	0.031	0.029	0.027	0.027	14.8
Methyl Acrylate	0.253	0.292	0.313	0.332	0.304	0.299	9.8
Bromochloromethane	0.208	0.224	0.222	0.209	0.206	0.214	4.0
Methacrylonitrile	0.042	0.080	0.084	0.086	0.084	0.075	24.7
Tetrahydrofuran	0.080	0.079	0.081	0.078	0.077	0.079	2.0
Chloroform	0.710	0.743	0.779	0.751	0.762	0.749	3.4
1,1,1-Trichloroethane	0.569	0.537	0.538	0.520	0.498	0.532	4.9
1-Chlorobutane	0.727	0.778	0.745	0.730	0.714	0.739	3.3
Carbon Tetrachloride	0.519	0.494	0.482	0.474	0.460	0.486	4.6
1,1-Dichloropropene	0.547	0.591	0.551	0.546	0.531	0.553	4.1
Benzene	1.137	1.088	1.042	1.065	1.018	1.070	4.3
1,2-Dichloroethane	0.451	0.481	0.477	0.460	0.426	0.459	4.9
Trichloroethene	0.371	0.396	0.406	0.406	0.397	0.395	3.7
Dibromomethane	0.375	0.386	0.387	0.371	0.350	0.374	4.0
1,2-Dichloropropane	0.424	0.498	0.492	0.483	0.468	0.473	6.2
Methyl Methacrylate	0.095	0.129	0.197	0.202	0.199	0.164	30.1
Bromodichloromethane	0.646	0.687	0.668	0.657	0.633	0.658	3.1

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

6A VOLATILE ORGANICS INITIAL CALIBRATION DATA

Contract: 98011

Lab Name: STL BURLINGTON

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Instrument ID: L Calibration Date(s): 03/26/02 03/26/02

Heated Purge: (Y/N) N Calibration Time(s): 0741 0935

GC Column: CAP ID: 0.53 (mm)

LAB FILE ID: RRF0.5=LW005V RRF2=LW02V RRF30=LW030V  
 RRF10=LW010V

COMPOUND	RRF0.5	RRF2	RRF10	RRF20	RRF30	RRF	RSD %
Chloroacetone trile	0.008	0.012	0.015	0.014	0.013	0.012	22.1
cis-1,3-Dichloropropene	0.653	0.732	0.675	0.665	0.646	0.674	5.1
1,1-Dichloropropane	0.005	0.006	0.006	0.006	0.006	0.006	11.3
4-Methyl-2-Pentanone	0.105	0.144	0.162	0.154	0.137	0.140	15.5
2-Nitropropane	0.068	0.076	0.079	0.077	0.068	0.074	7.2
Toluene	0.644	0.719	0.737	0.709	0.669	0.696	5.5
trans-1,3-Dichloropropene	0.451	0.493	0.528	0.554	0.528	0.511	7.7
Ethyl Methacrylate	0.248	0.357	0.484	0.504	0.464	0.411	26.1
1,1,2-Trichloroethane	0.281	0.321	0.329	0.332	0.315	0.316	6.5
Tetrachloroethene	0.418	0.497	0.546	0.560	0.590	0.522	12.9
1,3-Dichloropropane	0.530	0.616	0.628	0.643	0.610	0.605	7.3
2-Hexanone	0.178	0.337	0.462	0.456	0.414	0.369	31.9
Dibromochloromethane	0.578	0.672	0.650	0.700	0.685	0.657	7.2
1,2-Dibromomethane	0.519	0.593	0.579	0.625	0.598	0.583	6.7
Chlorobenzene	0.960	1.037	1.002	1.023	0.984	1.001	3.1
1,1,1,2-Tetrachloroethane	0.472	0.476	0.474	0.496	0.482	0.480	2.0
Ethylbenzene	1.564	1.683	1.699	1.716	1.630	1.658	3.7
m- & p-Xylene	0.574	0.641	0.652	0.656	0.621	0.629	5.3
o-Xylene	0.532	0.609	0.634	0.637	0.603	0.603	7.0
Styrene	0.736	0.924	1.039	1.059	1.009	0.953	13.8
Bromofom	0.349	0.398	0.435	0.458	0.441	0.416	10.4
Xylene (total)	0.532	0.609	0.634	0.637	0.603	0.603	7.0
Isopropylbenzene	1.558	1.738	1.871	1.856	1.738	1.752	7.2
Bromobenzene	0.429	0.502	0.536	0.554	0.516	0.507	9.5
1,1,2,2-Tetrachloroethane	0.688	0.758	0.793	0.777	0.702	0.744	6.2
1,2,3-Trichloropropane	0.131	0.157	0.173	0.176	0.156	0.159	11.3
trans-1,4-Dichloro-2-butene	0.090	0.101	0.157	0.153	0.140	0.128	23.9
2-Chlorotoluene	0.390	0.444	0.472	0.466	0.440	0.442	7.3
4-Chlorotoluene	0.388	0.437	0.475	0.486	0.455	0.448	8.5
n-Propylbenzene	0.373	0.453	0.504	0.505	0.472	0.461	11.7
1,3,5-Trimethylbenzene	1.165	1.303	1.382	1.386	1.276	1.302	7.0
Pentachloroethane	0.242	0.262	0.263	0.231	0.171	0.234	16.0
tert-Butylbenzene	0.348	0.370	0.397	0.392	0.360	0.373	5.5
1,2,4-Trimethylbenzene	1.113	1.293	1.385	1.367	1.272	1.286	8.4
sec-Butylbenzene	1.814	2.036	2.164	2.142	1.991	2.029	6.9
1,3-Dichlorobenzene	0.742	0.876	0.974	0.968	0.894	0.891	10.6
p-Isopropyltoluene	1.378	1.501	1.664	1.656	1.554	1.551	7.6

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

6A VOLATILE ORGANICS INITIAL CALIBRATION DATA

Contract: 98011

Lab Name: STL BURLINGTON

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Instrument ID: L

Calibration Date(s): 03/26/02 03/26/02

Heated Purge: (Y/N) N

Calibration Time(s): 0741 0935

GC Column: CAP ID: 0.53 (mm)

LAB FILE ID:  
RRF10=LWQ10V

RRF0.5=LWQ05V  
RRF20=LWQ20V

RRF2=LWQ2V  
RRF30=LWQ30V

COMPOUND	RRF0.5	RRF2	RRF10	RRF20	RRF30	RRF	% RSD
1,4-Dichlorobenzene	0.949	0.982	1.050	1.049	0.964	0.999	4.8
1,2-Dichlorobenzene	0.777	0.839	0.910	0.898	0.819	0.849	6.5
n-Butylbenzene	1.352	1.598	1.686	1.684	1.539	1.572	8.8
Hexachloroethane	0.462	0.507	0.585	0.566	0.523	0.529	9.2
1,2-Dibromo-3-chloropropane	0.137	0.142	0.162	0.157	0.139	0.147	7.5
Nitrobenzene	0.010	0.012	0.020	0.020	0.018	0.016	29.0
1,2,4-Trichlorobenzene	0.492	0.527	0.605	0.596	0.555	0.555	8.5
Hexachlorobutadiene	0.283	0.310	0.344	0.341	0.321	0.320	7.8
Naphthalene	0.859	0.996	1.150	1.159	1.063	1.045	11.8
1,2,3-Trichlorobenzene	0.413	0.496	0.539	0.531	0.489	0.494	10.1
1,2-Dichloroethane-d4	0.357	0.388	0.362	0.360	0.334	0.360	5.3
Bromofluorobenzene	0.714	0.833	0.885	0.894	0.837	0.833	8.6
1,2-Dichlorobenzene-d4	0.512	0.546	0.599	0.580	0.540	0.555	6.2
Toluene-d8	0.932	1.029	1.043	1.021	0.959	0.997	4.9

\* 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: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428  
 Instrument ID: L Calibration Date: 04/15/02 Time: 2359  
 Lab File ID: LM02DV Int. Calib. Date(s): 03/26/02  
 Heated Purge: (Y/N) N Int. Calib. Times: 0741 0935  
 GC Column: CAP ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX
Dichlorodifluoromethane	0.522	0.614	0.01	17.6	30.0
Chloromethane	0.365	0.412	0.01	12.9	30.0
Vinyl Chloride	0.345	0.374	0.01	8.4	30.0
Bromomethane	0.280	0.300	0.01	7.1	30.0
Chloroethane	0.208	0.223	0.01	7.2	30.0
Trichlorofluoromethane	0.561	0.608	0.01	8.4	30.0
Diethyl Ether	0.195	0.202	0.01	3.6	30.0
1,1-Dichloroethene	0.274	0.298	0.01	8.8	30.0
Acetone	0.153	0.085	0.01	44.4	30.0
Methyl Iodide	0.361	0.428	0.01	18.6	30.0
Carbon Disulfide	0.497	0.530	0.01	6.6	30.0
Allyl Chloride	0.543	0.554	0.01	2.0	30.0
Methylene Chloride	0.314	0.345	0.01	9.9	30.0
Acrylonitrile	0.068	0.077	0.01	13.2	30.0
trans-1,2-Dichloroethene	0.308	0.326	0.01	5.8	30.0
Methyl-t-Butyl Ether	0.608	0.673	0.01	10.7	30.0
1,1-Dichloroethane	0.707	0.755	0.01	6.8	30.0
2,2-Dichloropropane	0.514	0.639	0.01	24.3	30.0
cis-1,2-Dichloroethene	0.349	0.373	0.01	6.9	30.0
2-Butanone	0.036	0.023	0.01	36.1	30.0
Propionitrile	0.027	0.030	0.01	11.1	30.0
Methyl Acrylate	0.299	0.296	0.01	1.0	30.0
Bromochloromethane	0.214	0.217	0.01	1.4	30.0
Methacrylonitrile	0.075	0.079	0.01	5.3	30.0
Tetrahydrofuran	0.079	0.090	0.01	13.9	30.0
Chloroform	0.749	0.773	0.01	3.2	30.0
1,1,1-Trichloroethane	0.532	0.591	0.01	11.1	30.0
1-Chlorobutane	0.739	0.798	0.01	8.0	30.0
Carbon Tetrachloride	0.486	0.559	0.01	15.0	30.0
1,1-Dichloropropene	0.553	0.581	0.01	5.1	30.0
Benzene	1.070	1.109	0.01	3.6	30.0
1,2-Dichloroethane	0.459	0.501	0.01	9.2	30.0
Trichloroethene	0.395	0.418	0.01	5.8	30.0
Dibromomethane	0.374	0.393	0.01	5.1	30.0
1,2-Dichloropropane	0.473	0.506	0.01	7.0	30.0
Methyl Methacrylate	0.164	0.174	0.01	6.1	30.0
Bromodichloromethane	0.658	0.660	0.01	0.3	30.0

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428  
 Instrument ID: L Calibration Date: 04/15/02 Time: 2359  
 Lab File ID: LW02DV Int. Calib. Date(s): 03/26/02 03/26/02  
 Heated Purge: (Y/N) N Int. Calib. Times: 0741 0935  
 GC Column: CAP ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
Chloroacetonitrile	0.012	0.013	0.01	8.3	30.0
cis-1,3-Dichloropropene	0.674	0.748	0.01	11.0	30.0
1,1-Dichloropropane	0.006	0.007	0.01	16.7	30.0
4-Methyl-2-Pentanone	0.140	0.130	0.01	7.1	30.0
2-Nitropropane	0.074	0.088	0.01	18.9	30.0
Toluene	0.696	0.674	0.01	3.2	30.0
trans-1,3-Dichloropropene	0.511	0.530	0.01	3.7	30.0
Ethyl Methacrylate	0.411	0.376	0.01	8.5	30.0
1,1,2-Trichloroethane	0.316	0.336	0.01	6.3	30.0
Tetrachloroethane	0.522	0.436	0.01	16.5	30.0
1,3-Dichloropropane	0.605	0.625	0.01	3.3	30.0
2-Hexanone	0.369	0.173	0.01	53.1	30.0
Dibromochloromethane	0.657	0.708	0.01	7.8	30.0
1,2-Dibromethane	0.583	0.658	0.01	12.9	30.0
Chlorobenzene	1.001	1.043	0.01	4.2	30.0
1,1,1,2-Tetrachloroethane	0.480	0.525	0.01	9.4	30.0
Ethylbenzene	1.658	1.685	0.01	1.6	30.0
m- & p-Xylene	0.629	0.670	0.01	6.5	30.0
o-Xylene	0.603	0.617	0.01	2.3	30.0
Styrene	0.953	0.958	0.01	0.5	30.0
Bromoform	0.416	0.390	0.01	6.2	30.0
Xylene (total)	0.603	0.617	0.01	2.3	30.0
Isopropylbenzene	1.752	1.767	0.01	0.8	30.0
Bromobenzene	0.507	0.525	0.01	3.6	30.0
1,1,2,2-Tetrachloroethane	0.744	0.854	0.01	14.8	30.0
1,2,3-Trichloropropane	0.159	0.186	0.01	17.0	30.0
trans-1,4-Dichloro-2-butene	0.128	0.117	0.01	8.6	30.0
2-Chlorotoluene	0.442	0.446	0.01	0.9	30.0
4-Chlorotoluene	0.448	0.468	0.01	4.5	30.0
n-Propylbenzene	0.461	0.449	0.01	2.6	30.0
1,3,5-Trimethylbenzene	1.302	1.315	0.01	1.0	30.0
Pentachloroethane	0.234	0.266	0.01	13.7	30.0
tert-Butylbenzene	0.373	0.384	0.01	2.9	30.0
1,2,4-Trimethylbenzene	1.286	1.331	0.01	3.5	30.0
sec-Butylbenzene	2.029	2.106	0.01	3.8	30.0
1,3-Dichlorobenzene	0.891	0.890	0.01	0.1	30.0
p-Isopropyltoluene	1.551	1.581	0.01	1.9	30.0

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428  
 Instrument ID: L Calibration Date: 04/15/02 Time: 2359  
 Lab File ID: LM02DV Init. Calib. Date(s): 03/26/02 03/26/02  
 Heated Purge: (Y/N) N Init. Calib. Times: 0741 0935  
 GC Column: CAP ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
1,4-Dichlorobenzene	0.999	1.063	0.01	6.4	30.0
1,2-Dichlorobenzene	0.849	0.912	0.01	7.4	30.0
n-Butylbenzene	1.572	1.691	0.01	7.6	30.0
Hexachloroethane	0.529	0.490	0.01	7.4	30.0
1,2-Dibromo-3-Chloropropane	0.147	0.176	0.01	19.7	30.0
Nitrobenzene	0.016	0.010	0.01	37.5	30.0
1,2,4-Trichlorobenzene	0.555	0.632	0.01	13.9	30.0
Hexachlorobutadiene	0.320	0.422	0.01	31.9	30.0
Naphthalene	1.045	1.229	0.01	17.6	30.0
1,2,3-Trichlorobenzene	0.494	0.585	0.01	18.4	30.0
1,2-Dichloroethane-d4	0.360	0.420	0.01	16.7	30.0
Bromofluorobenzene	0.833	0.851	0.01	2.2	30.0
1,2-Dichlorobenzene-d4	0.555	0.578	0.01	4.1	30.0
Toluene-d8	0.997	0.960	0.01	3.7	30.0

FORM 7 VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428  
 Instrument ID: L Calibration Date: 04/16/02 Time: 1157  
 Lab File ID: LM002EV Int. Calib. Date(s): 03/26/02 03/26/02  
 Heated Purge: (Y/N) N Int. Calib. Times: 0741 0935  
 GC Column: CAP ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.522	0.632	0.01	21.1	30.0
Chloromethane	0.365	0.395	0.01	8.2	30.0
Vinyl Chloride	0.345	0.391	0.01	13.3	30.0
Bromomethane	0.280	0.343	0.01	22.5	30.0
Chloroethane	0.208	0.239	0.01	14.9	30.0
Trichlorofluoromethane	0.561	0.640	0.01	14.1	30.0
Diethyl Ether	0.195	0.208	0.01	6.7	30.0
1,1-Dichloroethene	0.274	0.307	0.01	12.0	30.0
Acetone	0.153	0.090	0.01	41.2	30.0
Methyl Iodide	0.361	0.422	0.01	16.9	30.0
Carbon Disulfide	0.497	0.510	0.01	2.6	30.0
Allyl Chloride	0.543	0.565	0.01	4.0	30.0
Methylene Chloride	0.314	0.400	0.01	27.4	30.0
Acrylonitrile	0.068	0.082	0.01	20.6	30.0
trans-1,2-Dichloroethene	0.308	0.327	0.01	6.2	30.0
Methyl-t-Butyl Ether	0.608	0.680	0.01	11.8	30.0
1,1-Dichloroethane	0.707	0.794	0.01	12.3	30.0
2,2-Dichloropropane	0.514	0.638	0.01	24.1	30.0
cis-1,2-Dichloroethene	0.349	0.362	0.01	3.7	30.0
2-Butanone	0.036	0.026	0.01	27.8	30.0
Propionitrile	0.027	0.031	0.01	14.8	30.0
Methyl Acrylate	0.299	0.317	0.01	6.0	30.0
Bromochloromethane	0.214	0.227	0.01	6.1	30.0
Methacrylonitrile	0.075	0.078	0.01	4.0	30.0
Tetrahydrofuran	0.079	0.091	0.01	15.2	30.0
Chloroform	0.749	0.767	0.01	2.4	30.0
1,1,1-Trichloroethane	0.532	0.605	0.01	13.7	30.0
1-Chlorobutane	0.739	0.789	0.01	6.8	30.0
Carbon Tetrachloride	0.486	0.567	0.01	16.7	30.0
1,1-Dichloropropene	0.553	0.586	0.01	6.0	30.0
Benzene	1.070	1.085	0.01	1.4	30.0
1,2-Dichloroethane	0.459	0.522	0.01	13.7	30.0
Trichloroethene	0.395	0.405	0.01	2.5	30.0
Dibromomethane	0.374	0.404	0.01	8.0	30.0
1,2-Dichloropropane	0.473	0.499	0.01	5.5	30.0
Methyl Methacrylate	0.164	0.156	0.01	4.9	30.0
Bromodichloromethane	0.658	0.684	0.01	4.0	30.0



FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428  
 Instrument ID: L Calibration Date: 04/16/02 Time: 1157  
 Lab File ID: LM02EV Init. Calib. Date(s): 03/26/02 03/26/02  
 Heated Purge: (Y/N) N Init. Calib. Times: 0741 0935  
 GC Column: CAP ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
Chloroacetoneitrile	0.012	0.014	0.01	16.7	30.0
cis-1,3-Dichloropropene	0.674	0.754	0.01	11.9	30.0
1,1-Dichloropropane	0.006	0.007	0.01	16.7	30.0
4-Methyl-2-Pentanone	0.140	0.132	0.01	5.7	30.0
2-Nitropropane	0.074	0.092	0.01	24.3	30.0
Toluene	0.696	0.671	0.01	3.6	30.0
trans-1,3-Dichloropropene	0.511	0.513	0.01	0.4	30.0
Ethyl Methacrylate	0.411	0.336	0.01	18.2	30.0
1,1,2-Trichloroethane	0.316	0.338	0.01	7.0	30.0
Tetrachloroethene	0.522	0.423	0.01	19.0	30.0
1,3-Dichloropropane	0.605	0.652	0.01	7.8	30.0
2-Hexanone	0.369	0.175	0.01	52.6	30.0
Dibromochloromethane	0.657	0.695	0.01	5.8	30.0
1,2-Dibromoethane	0.583	0.598	0.01	2.6	30.0
Chlorobenzene	1.001	1.010	0.01	0.9	30.0
1,1,1,2-Tetrachloroethane	0.480	0.495	0.01	3.1	30.0
Ethylbenzene	1.658	1.610	0.01	2.9	30.0
m- & p-Xylene	0.629	0.619	0.01	1.6	30.0
o-Xylene	0.603	0.595	0.01	1.3	30.0
Styrene	0.953	0.900	0.01	5.6	30.0
Bromoforn	0.416	0.407	0.01	2.2	30.0
Xylene (total)	0.603	0.595	0.01	1.3	30.0
Isopropylbenzene	1.752	1.629	0.01	7.0	30.0
Bromobenzene	0.507	0.496	0.01	2.2	30.0
1,1,2,2-Tetrachloroethane	0.744	0.825	0.01	10.9	30.0
1,2,3-Trichloropropane	0.159	0.182	0.01	14.5	30.0
trans-1,4-Dichloro-2-butene	0.128	0.129	0.01	0.8	30.0
2-Chlorotoluene	0.442	0.442	0.01	0.0	30.0
4-Chlorotoluene	0.448	0.442	0.01	1.3	30.0
n-Propylbenzene	0.461	0.436	0.01	5.4	30.0
1,3,5-Trimethylbenzene	1.302	1.240	0.01	4.8	30.0
Pentachloroethane	0.234	0.293	0.01	25.2	30.0
tert-Butylbenzene	0.373	0.366	0.01	1.9	30.0
1,2,4-Trimethylbenzene	1.286	1.281	0.01	0.4	30.0
sec-Butylbenzene	2.029	2.036	0.01	0.3	30.0
1,3-Dichlorobenzene	0.891	0.842	0.01	5.5	30.0
p-Isopropyltoluene	1.551	1.534	0.01	1.1	30.0

FORM 7  
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 98011

Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Instrument ID: L Calibration Date: 04/16/02 Time: 1157

Lab File ID: LM02EV Int. Calib. Date(s): 03/26/02 03/26/02

Heated Purge: (Y/N) N Int. Calib. Times: 0741 : 0935

GC Column: CAP ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
1,4-Dichlorobenzene	0.999	0.992	0.01	0.7	30.0
1,2-Dichlorobenzene	0.849	0.834	0.01	1.8	30.0
n-Butylbenzene	1.572	1.591	0.01	1.2	30.0
Hexachloroethane	0.529	0.513	0.01	3.0	30.0
1,2-Dibromo-3-Chloropropane	0.147	0.160	0.01	8.8	30.0
Nitrobenzene	0.016	0.007	0.01	56.2	30.0
1,2,4-Trichlorobenzene	0.555	0.584	0.01	5.2	30.0
Hexachlorobutadiene	0.320	0.405	0.01	26.6	30.0
Naphthalene	1.045	1.133	0.01	8.4	30.0
1,2,3-Trichlorobenzene	0.494	0.562	0.01	13.8	30.0
1,2-Dichloroethane-d4	0.360	0.438	0.01	21.7	30.0
Bromofluorobenzene	0.833	0.822	0.01	1.3	30.0
1,2-Dichlorobenzene-d4	0.555	0.544	0.01	2.0	30.0
Toluene-d8	0.997	0.978	0.01	1.9	30.0

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FORM 8  
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428  
 Lab File ID (Standard): LW02DV Date Analyzed: 04/15/02  
 Instrument ID: L Time Analyzed: 2359  
 GC Column: CAP ID: 0.53 (mm) Heated Purge: (Y/N) N

IS1	IS2 (CBZ)	IS3 (DCB)	RT #	AREA #	RT #	AREA #	RT #	AREA #
12 HOUR STD	110822	9.11	86384	14.81	50361	19.50	19.50	19.50
UPPER LIMIT	144069	9.61	112299	15.31	65469	20.00	20.00	20.00
LOWER LIMIT	77575	8.61	60469	14.31	35253	19.00	19.00	19.00
CLIENT								
SAMPLE NO.								
01	LWQD LCS	106231	9.12	88270	14.83	48363	19.50	19.50
02	VBLKZ7	104652	9.11	86409	14.81	44697	19.50	19.50
03	ARD2169	97474	9.11	80928	14.83	43950	19.50	19.50
04	ARD2170	95688	9.11	83626	14.83	41359	19.52	19.52
05	ARD2172	92840	9.11	78276	14.85	41703	19.52	19.52
06	ARD2173	98142	9.12	77978	14.82	40781	19.50	19.50
07	TR2082	90618	9.11	78502	14.81	39926	19.52	19.52
08	TR2084	91935	9.11	74403	14.83	38576	19.52	19.52
09	TR2085	88450	9.12	77857	14.83	41784	19.50	19.50
10	TR2085MS	93212	9.11	80312	14.81	46916	19.50	19.50
11	TR2085MSD	96060	9.12	81321	14.82	45876	19.50	19.50
12	TR2086	90740	9.11	79821	14.83	40758	19.52	19.52
13	TR2087	97314	9.11	78080	14.83	39416	19.52	19.52
14	TR2088	88972	9.12	78474	14.84	37011	19.51	19.51
15	TR2089	85792	9.13	75917	14.83	38426	19.50	19.50
16	TR0035	91079	9.12	78064	14.84	39135	19.51	19.51
17	TR0036	83749	9.11	76653	14.83	40680	19.52	19.52
18	ARD2168	88902	9.12	74837	14.83	39602	19.51	19.51
19								
20	=							
21								
22								

IS1 = Fluorobenzene  
 IS2 (CBZ) = Chlorobenzene-d5  
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 30% of internal standard area  
 AREA LOWER LIMIT = - 30% 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: STL BURLINGTON Contract: 98011  
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 87428

Lab File ID (Standard): LM02EV Date Analyzed: 04/16/02

Instrument ID: L Time Analyzed: 1157

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

IS1 AREA #	IS2 (CBZ) AREA #	IS3 (DCB) AREA #	RT #	12 HOUR STD UPPER LIMIT	LOWER LIMIT	CLIENT SAMPLE NO.	IS1 AREA #	IS2 (CBZ) AREA #	IS3 (DCB) AREA #	RT #
78855	79545	14.83	01	95034	66524	LM02 LCS	78855	79545	14.83	01
91664	78340	14.85	02	123544		VBLKZ9	91664	78340	14.85	02
82400	71627	14.85	03	9.63		TR2081	82400	71627	14.85	03
79145	75466	14.85	04	8.63		TR2083	79145	75466	14.85	04
9.13			05				9.13			05
			06							06
			07							07
			08							08
			09							09
			10							10
			11							11
			12							12
			13							13
			14							14
			15							15
			16							16
			17							17
			18							18
			19							19
			20							20
			21							21
			22							22

IS1 = Fluorobenzene  
 IS2 (CBZ) = Chlorobenzene-d5  
 IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = + 30% of internal standard area  
 AREA LOWER LIMIT = - 30% 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.

**HISTORICAL GROUNDWATER ANALYTICAL DATA**

**APPENDIX C**



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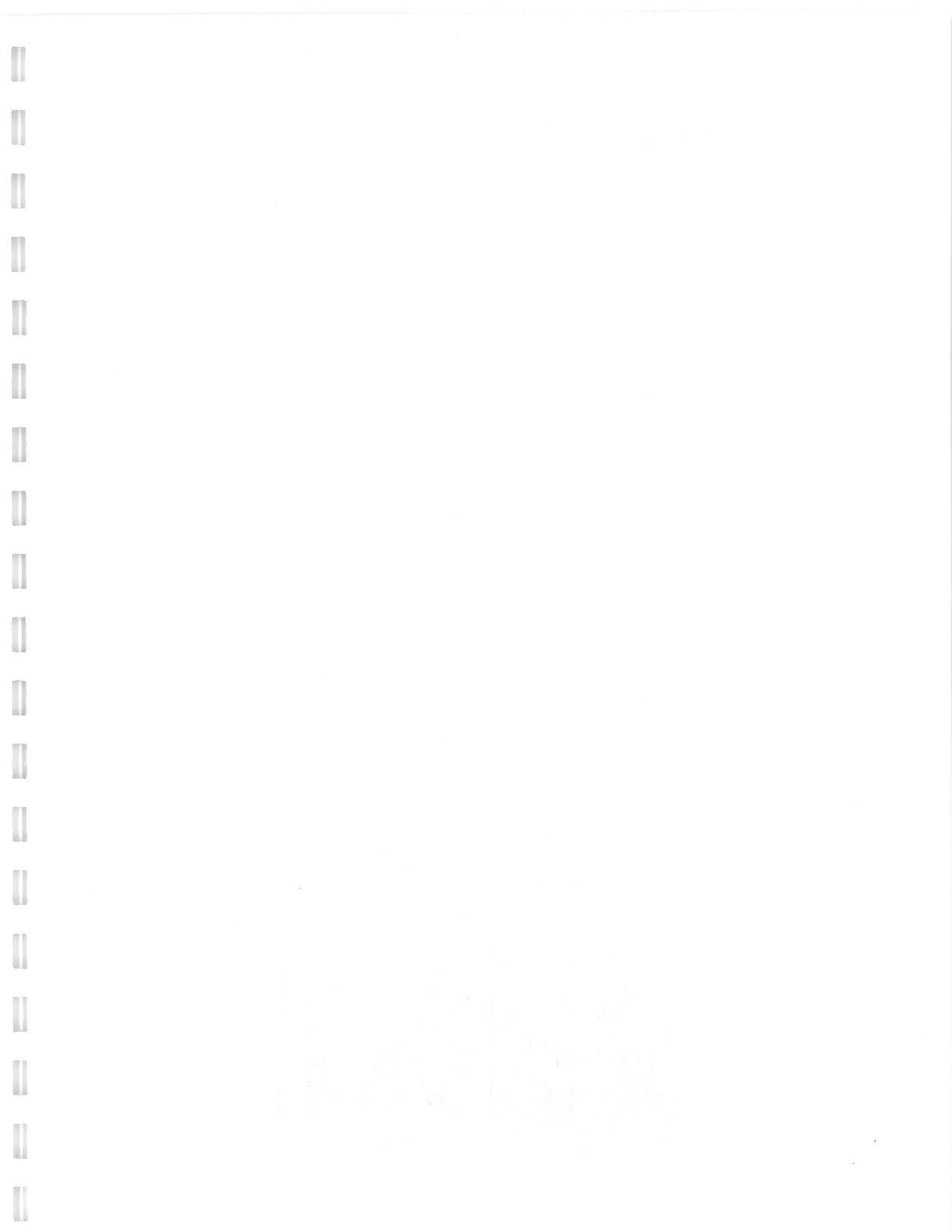






APPENDIX C1  
GROUND WATER CHEMICAL RESULTS - 4Q 1999  
GROUND WATER MONITORING -  
ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	OF	CLASS	STD. GA	NUMBER	ABOVE	STD.	DETECTS	NUMBER	OF	ANALYSES	N	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		
																LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	MM-28	MM-29	MM-30	MM-31	MM-32
OC CODE																										
STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	OF	CLASS	STD. GA	NUMBER	ABOVE	STD.	DETECTS	NUMBER	OF	ANALYSES	N	MM-28	MM-29	MM-30	MM-31	MM-32						
		UG/L	268000	98%	0%	10	0	0	0	0	51	8	52	112000	0.3 U	164000	0.9 U	112000	0.9 U	91500 J	0.7 UJ	108000	0.3 U			
		UG/L	5.6	15%	0%	50	0	0	0	0	51	8	52	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
		UG/L	8.4	4%	0%	200	0	0	0	0	51	8	52	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
		UG/L	6.1	10%	0%	100	0	0	0	0	51	8	52	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		UG/L	0	67%	0%	300	14	35	52	28.8 J	442 J	109	52	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
		UG/L	5.4	10%	0%	25	0	5	52	1 U	1 U	1 U	52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
		UG/L	47100	98%	0%	300	7	43	52	1.3 J	2.6 J	1.4 J	52	1.4 J	1.4 J	1.4 J	1.4 J	1.4 J	1.4 J	1.4 J	1.4 J	1.4 J	1.4 J	1.4 J	1.4 J	1.4 J
		UG/L	3140	83%	0%	300	7	43	52	0.1 U	0.1 U	0.1 U	52	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
		UG/L	0.2	12%	0%	2	0	6	52	1.7 U	1.7 U	1.7 U	52	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		UG/L	5.6	12%	0%	0	0	6	52	1.7 U	1.7 U	1.7 U	52	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		UG/L	18400	98%	0%	10	0	51	52	1220 J	1680 J	2760 J	52	2760 J	2760 J	2760 J	2760 J	2760 J	2760 J	2760 J	2760 J	2760 J	2760 J	2760 J	2760 J	2760 J
		UG/L	2.6	2%	0%	50	0	51	52	2.4 U	2.4 U	2.4 U	52	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
		UG/L	0	0%	0%	20000	27	51	52	8.770	22900	16300	52	16300	16300	16300	16300	16300	16300	16300	16300	16300	16300	16300	16300	16300
		UG/L	142000	98%	0%	0	0	10	52	4.4 J	2.9 U	2.7 U	52	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
		UG/L	10.8	19%	6%	300	0	42	52	1.5 U	1.5 U	1.5 U	52	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
		UG/L	4.5	6%	81%	0	0	42	52	2.1 J	2.5 J	3 J	52	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J
		UG/L	134	81%	0%	0	0	42	52	2.1 J	2.5 J	3 J	52	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J	3 J





APPENDIX C1  
GROUND WATER CHEMICAL RESULTS - 4Q 1999  
GROUND WATER MONITORING -  
ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

FACILITY	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LAND
LOCATION ID	MW-33	MW-34	MW-35D	MW-36	MW-36
MATRIX	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND W
SAMPLE ID	ARD2020	ARD2021	ARD2043	ARD2041	ARD2040
DEPTH TO TOP OF SAMPLE	9.79	12.5	44	10	10
DEPTH TO BOTTOM OF SAMPLE	9.79	12.5	44	10	10
SAMPLE DATE	12-Oct-99	12-Oct-99	20-Oct-99	20-Oct-99	20-Oct-99
	SA	SA	SA	DU	SA

QC CODE	STUDY ID	FREQUENCY	NYSDEC CLASS	GA STD.	NUMBER ABOVE STD.	NUMBER OF DETECTS	NUMBER OF ANALYSES	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN
PARAMETER	UNIT	MAXIMUM	DETECTION	STD.	STD.	OF	N	1	N	1	N	1	N
<b>VOLATILE ORGANICS</b>													
1,1,1-Trichloroethane	UG/L	1	2%	5	0	1	55	10 U	10 U	10 U	10 U	10 U	10
1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
1,1,2-Trichloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
1,1-Dichloroethane	UG/L	9	2%	5	1	1	55	10 U	10 U	10 U	10 U	10 U	10
1,1-Dichloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
1,2-Dichloroethane (total)	UG/L	4	4%	5	2	2	55	10 U	10 U	10 U	10 U	10 U	10
1,2-Dichloropropane	UG/L	1100	27%	5	14	15	55	10 U	10 U	10 U	10 U	10 U	10
Acetone	UG/L	2	4%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Benzene	UG/L	0	0%	0.7	0	2	55	10 U	10 U	10 U	10 U	10 U	10
Bromodichloromethane	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Bromoform	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Carbon disulfide	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Carbon tetrachloride	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Chlorobenzene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Chlorodibromomethane	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Chloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Chloroform	UG/L	74	2%	7	1	1	55	10 U	10 U	10 U	10 U	10 U	10
Cis-1,3-Dichloropropene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Ethyl benzene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Methyl bromide	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Methyl butyl ketone	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Methyl chloride	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Methyl ethyl ketone	UG/L	0	0%	50	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Methyl isobutyl ketone	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Methylene chloride	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Styrene	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Tetrachloroethene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Toluene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Total Xylenes	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Trans-1,3-Dichloropropene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10
Trichloroethene	UG/L	9100	27%	5	10	15	55	10 U	10 U	10 U	10 U	10 U	10
Vinyl chloride	UG/L	180	5%	2	2	3	55	10 U	10 U	10 U	10 U	10 U	10
<b>METALS</b>													
Aluminum	UG/L	2600	65%	0	0	34	52	89.3 J	82 J	42 J	14.3 U	24	24
Antimony	UG/L	3	2%	0	0	1	52	2.7 U	2.7 U	2.7 U	2.7 U	2.7	
Arsenic	UG/L	7	23%	0	0	12	52	1.9 U	1.9 U	3.6 J	2.2 J	3.2	
Barium	UG/L	176	98%	1000	0	51	52	36.1 J	82.6 J	102 J	68.4 J	66.9	
Beryllium	UG/L	0.66	10%	0	0	5	52	0.2 U	0.2 U	0.2 U	0.2 U	0.2	



APPENDIX C1  
GROUND WATER CHEMICAL RESULTS - 4Q 1999  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

QC CODE	STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	OF	NYSDEC CLASS GA	NUMBER ABOVE STD.	DETECTS	NUMBER OF ANALYSES	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LAND	
											MMW-33	ARD2020	MMW-34	ARD2021	MMW-35D	ARD2043	MMW-36	ARD2041	MMW-36	ARD2040
											0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
		Calcium	UG/L	268000	98%	0%	10	0	51	52	106000	49900	19400	114000	108000	0.93				
		Chromium	UG/L	5.6	15%	4%	50	0	8	52	0.9 U	0.9 U	0.9 U	0.9 U	0.93					
		Cobalt	UG/L	8.4	100%	0%	200	0	2	52	2 U	2 U	2.5 U	2.5 U	2.5 U	1.7				
		Copper	UG/L	6.1	100%	0%	100	0	5	52	1.7 U	1.7 U	1.7 U	1.7 U	1.7					
		Cyanide	UG/L	0	67%	0%	300	14	35	52	81.7 J	142	5 U	66.9 J	25.4 U	25.4				
		Iron	UG/L	5.4	100%	0%	25	0	5	52	1 U	1 U	1 U	1 U	1 U	1				
		Lead	UG/L	47100	98%	0%	300	7	43	52	11200	11200	6010	16700	16500	20.7				
		Magnesium	UG/L	3140	83%	12%	2	0	6	52	6.3 J	54.4	37.6	23.1	20.7	0.1				
		Manganese	UG/L	0.2	12%	0%	2	0	6	52	0.1 U	0.1 U	0.1 U	0.1 U	0.1					
		Nickel	UG/L	5.6	12%	0%	2	0	6	52	1.7 U	1.7 U	1.7 U	1.7 U	1.7					
		Potassium	UG/L	18400	98%	2%	10	0	51	52	1710 J	2450 J	1820 J	1830 J	1850	1.6				
		Selenium	UG/L	2.6	0%	0%	50	0	1	52	2.4 U	2.4 U	2.4 U	2.4 U	2.4					
		Silver	UG/L	0	98%	0%	20000	27	51	52	16000	63100	95900	32600	32600	1.6				
		Sodium	UG/L	142000	19%	6%	300	0	3	52	2.7 U	2.7 U	2.9 U	2.9 U	2.9					
		Thallium	UG/L	4.5	81%	0%	300	0	42	52	1.6 U	2.5 J	3.7 J	3.7 J	4.2					
		Vanadium	UG/L	134	81%	0%	300	0	42	52	1.6 U	2.5 J	3.7 J	3.7 J	4.2					
		Zinc	UG/L	134	81%	0%	300	0	42	52	1.6 U	2.5 J	3.7 J	3.7 J	4.2					



APPENDIX C1  
GROUND WATER CHEMICAL RESULTS - 4Q 1999  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN

SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

FACILITY	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
LOCATION ID	MM-37	MM-38D	MM-39	MM-40
MATRIX	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE ID	ARD2017	ARD2015	ARD2007	ARD2008
DEPTH TO TOP OF SAMPLE	11	20	9.5	12
DEPTH TO BOTTOM OF SAMPLE	11	20	9.5	12
SAMPLE DATE	11-Oct-99	11-Oct-99	09-Oct-99	09-Oct-99

STUDY ID	QC CODE	FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	AL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN
SAMPLE ROUND	PARAMETER	UNIT	MAXIMUM	DETECTION	OF	CLASS GA	ABOVE	STD	DETECTS	OF	ANALYSES
VOLATILE ORGANICS		UG/L							N	N	N
1.1,1-Trichloroethane	UG/L	1	2%	5	0	1	55 U	10 U	1	10 U	10 U
1.1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
1.1,2-Trichloroethane	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
1.1-Dichloroethane	UG/L	9	2%	5	1	1	55 U	10 U	1	10 U	10 U
1.1-Dichloroethane	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
1.2-Dichloroethane	UG/L	4	4%	5	0	2	55 U	10 U	1	10 U	10 U
1.2-Dichloroethane (total)	UG/L	1100	27%	5	14	15	55 U	10 U	1	10 U	10 U
1.2-Dichloropropane	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Acetone	UG/L	2	4%	0	0	2	55 U	10 U	1	10 U	10 U
Benzene	UG/L	0	0%	0.7	0	0	55 U	10 U	1	10 U	10 U
Bromodichloromethane	UG/L	0	0%	0	0	0	55 U	10 U	1	10 U	10 U
Bromoform	UG/L	0	0%	0	0	0	55 U	10 U	1	10 U	10 U
Carbon disulfide	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Carbon tetrachloride	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Chlorobenzene	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Chlorodibromomethane	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Chloroethane	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Chloroform	UG/L	74	2%	7	1	1	55 U	10 U	1	10 U	10 U
Cis-1,3-Dichloropropene	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Ethyl benzene	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Methyl bromide	UG/L	0	0%	0	0	0	55 U	10 U	1	10 U	10 U
Methyl butyl ketone	UG/L	0	0%	0	0	0	55 U	10 U	1	10 U	10 U
Methyl chloride	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Methyl ethyl ketone	UG/L	0	0%	50	0	0	55 U	10 U	1	10 U	10 U
Methyl isobutyl ketone	UG/L	0	0%	0	0	0	55 U	10 U	1	10 U	10 U
Methylene chloride	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Styrene	UG/L	0	0%	0	0	0	55 U	10 U	1	10 U	10 U
Tetrachloroethane	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Toluene	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Total Xylenes	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Trans-1,3-Dichloropropene	UG/L	0	0%	5	0	0	55 U	10 U	1	10 U	10 U
Trichloroethane	UG/L	9100	27%	5	10	15	55 U	10 U	1	10 U	10 U
Vinyl chloride	UG/L	180	5%	2	2	3	55 U	10 U	1	10 U	10 U
<b>METALS</b>											
Aluminum	UG/L	2600	65%	0	0	34	52 J	69.6 J	16.3 U	16.3 U	71.2 J
Antimony	UG/L	3	2%	0	0	1	52 U	4.9 U	4.9 U	4.9 U	4.9 U
Arsenic	UG/L	7	23%	0	0	12	52 J	3.7 U	4.5 J	3.7 U	3.7 U
Barium	UG/L	176	98%	0	0	51	52 J	58.3 J	164 J	39.2 J	69.8 J
Beryllium	UG/L	0.66	10%	0	0	5	52 U	0.2 U	0.2 U	0.2 U	0.2 U

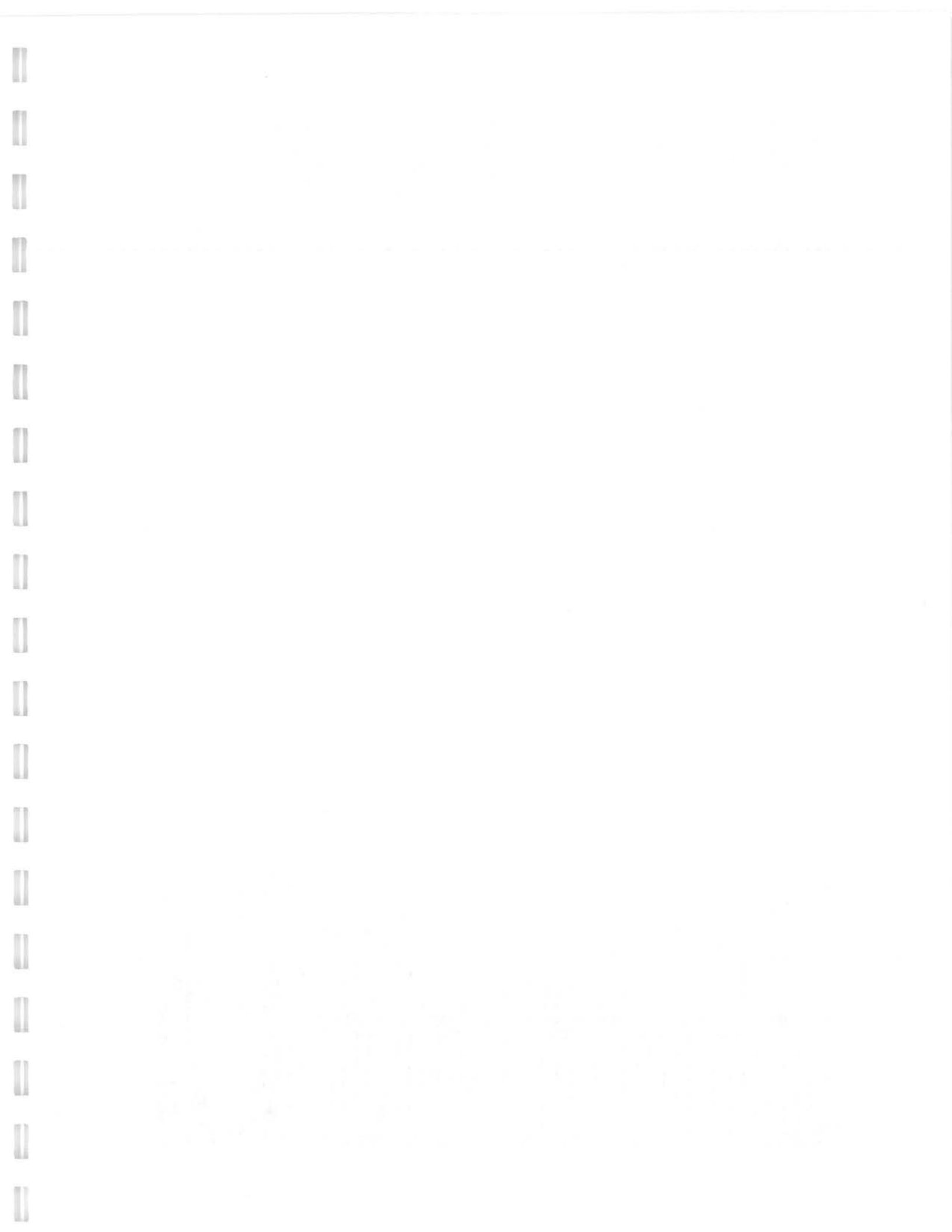
















APPENDIX C1  
GROUND WATER CHEMICAL RESULTS - 4Q 1999  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

FACILITY	L	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
LOCATION ID		MW-46	MW-47	MW-48	MW-49D
MATRIX		GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE ID		ARD2009	ARD2032	ARD2012	ARD2011
DEPTH TO TOP OF SAMPLE		10.5	9.5	10	26
DEPTH TO BOTTOM OF SAMPLE		10.5	9.5	10	26
SAMPLE DATE		10-Oct-99	19-Oct-99	10-Oct-99	10-Oct-99

STUDY ID	FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	L DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN
SAMPLE ROUND	OF	CLASS GA	ABOVE	OF	OF	N	N	N	N	N
PARAMETER	UNIT	MAXIMUM	DETECTION	STD	STD	DETECTS	ANALYSES	N	N	N
<b>VOLATILE ORGANICS</b>										
1,1,1-Trichloroethane	UGL	1	2%	5	0	1	55 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
1,1,2-Trichloroethane	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
1,1-Dichloroethane	UGL	9	2%	5	1	1	55 U	10 U	10 U	10 U
1,1-Dichloroethane	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
1,2-Dichloroethane	UGL	4	4%	5	0	2	55 U	10 U	10 U	10 U
1,2-Dichloroethane (total)	UGL	1100	27%	5	14	15	55 U	73	10 U	10 U
1,2-Dichloropropane	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Acetone	UGL	2	4%	5	0	2	55 U	10 U	10 U	10 U
Benzene	UGL	0	0%	0.7	0	0	55 U	10 U	10 U	10 U
Bromodichloromethane	UGL	0	0%	0	0	0	55 U	10 U	10 U	10 U
Bromoform	UGL	0	0%	0	0	0	55 U	10 U	10 U	10 U
Carbon disulfide	UGL	0	0%	0	0	0	55 U	10 U	10 U	10 U
Carbon tetrachloride	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Chlorobenzene	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Chlorodibromomethane	UGL	0	0%	0	0	0	55 U	10 U	10 U	10 U
Chloroethane	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Chloroform	UGL	74	2%	7	1	1	55 U	10 U	10 U	10 U
Cis-1,3-Dichloropropene	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Ethyl benzene	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Methyl bromide	UGL	0	0%	0	0	0	55 U	10 U	10 U	10 U
Methyl butyl ketone	UGL	0	0%	0	0	0	55 U	10 U	10 U	10 U
Methyl chloride	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Methyl ethyl ketone	UGL	0	0%	50	0	0	55 U	10 U	10 U	10 U
Methyl isobutyl ketone	UGL	0	0%	0	0	0	55 U	10 U	10 U	10 U
Methylene chloride	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Styrene	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Tetrachloroethene	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Toluene	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Total Xylenes	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Trans-1,3-Dichloropropene	UGL	0	0%	5	0	0	55 U	10 U	10 U	10 U
Trichloroethene	UGL	9100	27%	5	10	15	55 U	57	10 U	10 U
Vinyl chloride	UGL	180	5%	2	2	3	55 U	1 J	10 U	10 U
<b>METALS</b>										
Aluminum	UGL	2600	65%	0	0	34	52 J	124 J	25.1 J	16.3 U
Antimony	UGL	3	2%	0	0	1	52 U	4.9 U	2.7 U	4.9 U
Arsenic	UGL	7	23%	0	0	12	52 U	3.7 U	1.9 U	3.7 U
Barium	UGL	176	98%	0	0	51	52 J	71.4 J	48.3 J	45.2 J
Beryllium	UGL	0.66	10%	0	0	5	52 U	0.23 J	0.2 U	0.2 U







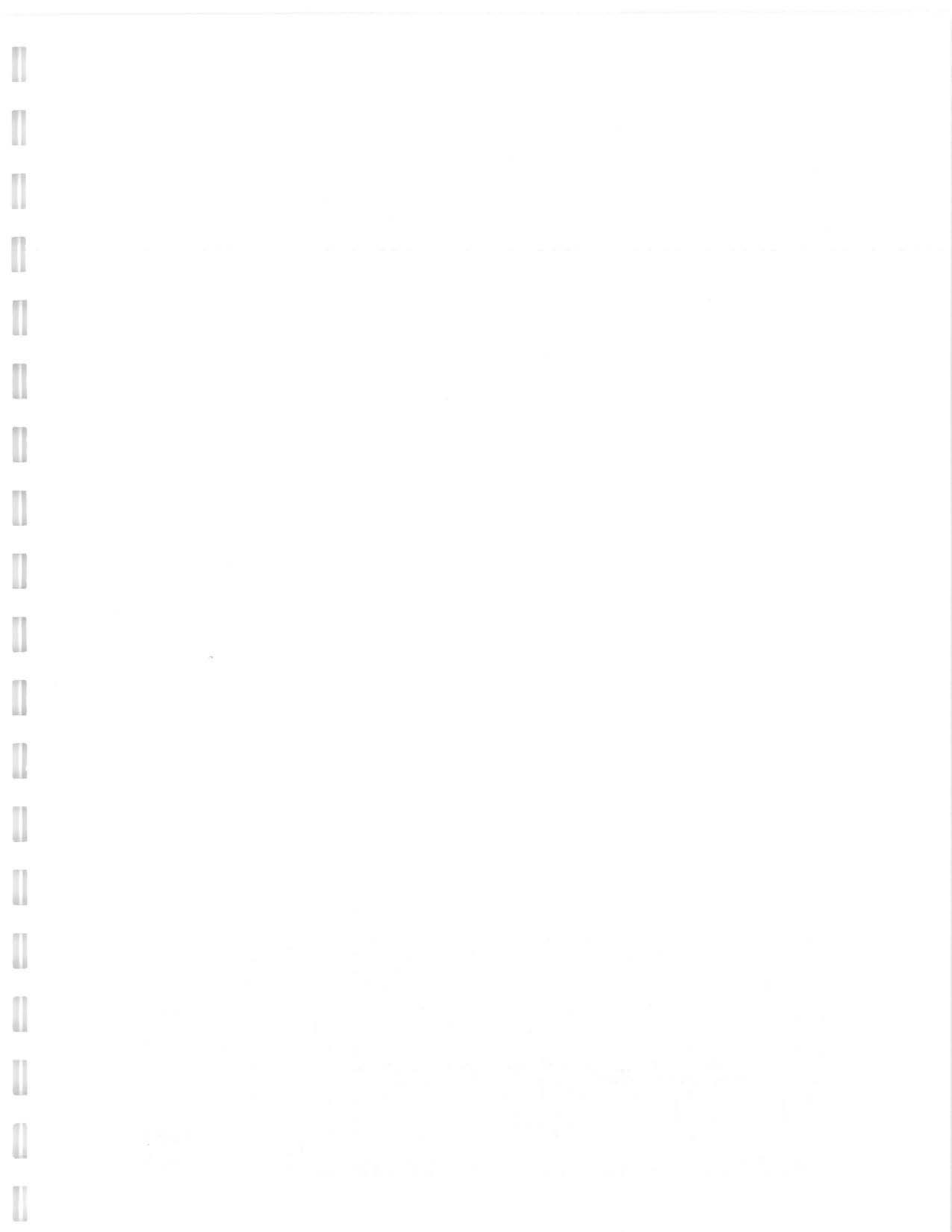


APPENDIX C1  
GROUND WATER CHEMICAL RESULTS - 4Q 1999  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN

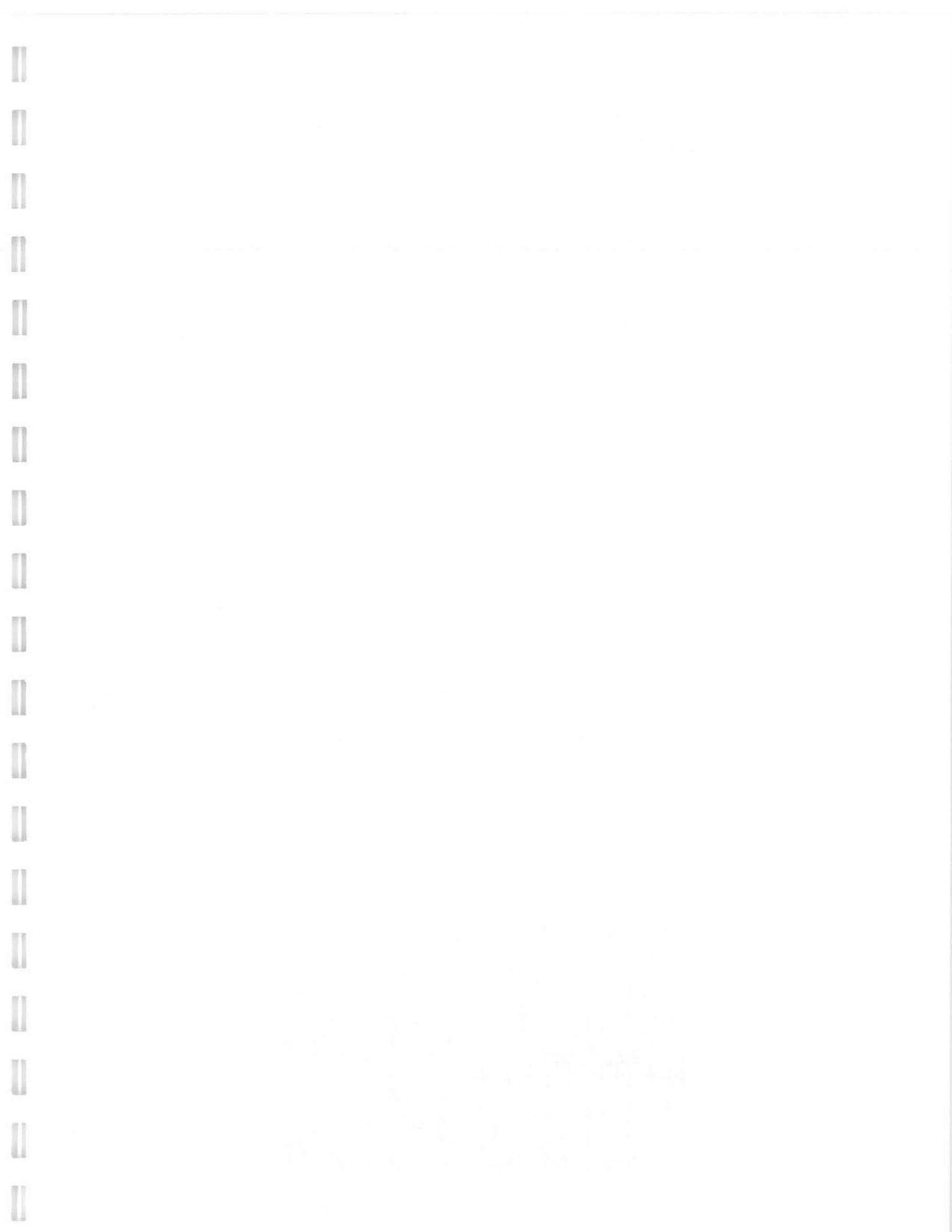
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	SA	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LAND
50	50	10-Oct-99	SA	MM-50D GROUND WATER	MM-51D GROUND WATER	MM-52D GROUND WATER	MM-53 GROUND WATER	MM-54D GROUND W
28	28	19-Oct-99	SA	ARD2010	ARD2033	ARD2034	ARD2055	ARD2023
50	50	19-Oct-99	SA					
11.5	11.5	22-Oct-99	SA					
25	25	13-Oct-99	SA					

QC CODE	STUDY ID	FREQUENCY	NYSDEC CLASS	NUMBER OF STD.	NUMBER OF DETECTS	NUMBER OF ANALYSES	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN
	PARAMETER	UNIT	MAXIMUM	DETECTION	STD.	STD.	N	N	N	N	N
	<b>VOLATILE ORGANICS</b>										
	1,1,1-Trichloroethane	UG/L	1	2%	5	0	1	55	10 U	10 U	10 U
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	1,1,2-Trichloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	1,1-Dichloroethane	UG/L	9	2%	5	1	1	55	10 U	10 U	10 U
	1,1-Dichloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	1,2-Dichloroethane	UG/L	4	4%	5	0	2	55	10 U	10 U	10 U
	1,2-Dichloroethane (total)	UG/L	1100	27%	5	14	15	55	10 U	10 U	10 U
	1,2-Dichloropropane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Acetone	UG/L	2	4%	5	0	2	55	10 U	10 U	2 J
	Benzene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Bromodichloromethane	UG/L	0	0%	0.7	0	0	55	10 U	10 U	10 U
	Bromoform	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U
	Carbon disulfide	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U
	Carbon tetrachloride	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Chlorobenzene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Chlorodibromomethane	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U
	Chloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Chloroform	UG/L	74	2%	7	1	1	55	10 U	10 U	10 U
	Cis-1,3-Dichloropropene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Ethyl benzene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Methyl bromide	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U
	Methyl butyl ketone	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U
	Methyl chloride	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Methyl ethyl ketone	UG/L	0	0%	50	0	0	55	10 U	10 U	10 U
	Methyl isobutyl ketone	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U
	Methylene chloride	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Styrene	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U
	Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Toluene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Total Xylenes	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Trans-1,3-Dichloropropene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U
	Trichloroethane	UG/L	9100	27%	5	10	15	55	10 U	10 U	10 U
	Vinyl chloride	UG/L	180	5%	2	2	3	55	10 U	10 U	10 U
	<b>METALS</b>										
	Aluminum	UG/L	2600	65%	0	34	34	52	22.7 J	20.2 J	2350
	Antimony	UG/L	3	2%	0	1	1	52	4.9 UJ	2.7 U	2.7 U
	Arsenic	UG/L	7	23%	25	12	12	52	3.7 U	1.9 U	1.9 U
	Barium	UG/L	176	98%	1000	0	51	52	107 J	125 J	64.7 J
	Beryllium	UG/L	0.66	10%	0	5	5	52	0.46 J	0.2 U	0.2 U







APPENDIX C1  
GROUND WATER CHEMICAL RESULTS - 4Q 1999  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN

SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

FACILITY	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LAND
LOCATION ID	MW-55D	MW-56	MW-57D	MW-58D	MW-59
MATRIX	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND W
SAMPLE ID	ARD2022	ARD2035	ARD2039	ARD2042	ARD2005
DEPTH TO TOP OF SAMPLE	50	6	25	48	8
DEPTH TO BOTTOM OF SAMPLE	50	6	25	48	8
SAMPLE DATE	13-Oct-99	20-Oct-99	20-Oct-99	20-Oct-99	09-Oct-99
	SA	SA	SA	SA	SA

OC CODE	STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	CLASS	NYSDEC	GA	NUMBER	ABOVE	STD.	NUMBER	OF	NUMBER	OF	AL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	N	N	N	N	N	N	N	N	N
<b>VOLATILE ORGANICS</b>																													
		1,1,1-Trichloroethane	UG/L	1	2%				5	0		0	1	1	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		1,1,2,2-Tetrachloroethane	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		1,1,2-Trichloroethane	UG/L	0	0%				0	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		1,1-Dichloroethane	UG/L	9	2%				5	1		1	1	1	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		1,1-Dichloroethane	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		1,2-Dichloroethane	UG/L	4	4%				5	0		0	2	2	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		1,2-Dichloroethane (total)	UG/L	1100	27%				14	15		15	15	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10	
		1,2-Dichloropropane	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Acetone	UG/L	2	4%				0.7	0		0	2	2	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Benzene	UG/L	0	0%				0	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Bromodichloromethane	UG/L	0	0%				0	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Carbon disulfide	UG/L	0	0%				0	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Carbon tetrachloride	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Chlorobenzene	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Chlorobromomethane	UG/L	0	0%				0	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Chloroethane	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Chloroform	UG/L	74	2%				7	1		1	1	1	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Cis-1,3-Dichloropropene	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Ethyl benzene	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Methyl bromide	UG/L	0	0%				0	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Methyl butyl ketone	UG/L	0	0%				0	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Methyl chloride	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Methyl ethyl ketone	UG/L	0	0%				50	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Methyl isobutyl ketone	UG/L	0	0%				0	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Methylene chloride	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Styrene	UG/L	0	0%				0	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Tetrachloroethane	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Toluene	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Total Xylenes	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Trans-1,3-Dichloropropene	UG/L	0	0%				5	0		0	0	0	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Trichloroethane	UG/L	9100	27%				5	10		15	15	15	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
		Vinyl chloride	UG/L	180	5%				2	2		3	3	3	55 U		10 U		10 U		10 U		10 U		10 U		10 U		10
<b>METALS</b>																													
		Aluminum	UG/L	2600	65%				0	34		34	34	52 U		1160		160 J		2.7 U		688		2400		2.7 U		21.9	
		Antimony	UG/L	3	2%				0	1		1	1	52 U		2.7 U		1.9 U		1.9 U		1.9 U		1.9 U		1.9 U		3.7	
		Arsenic	UG/L	7	23%				0	12		12	12	52 U		1.9 U		44.5 J		62.1 J		62.1 J		69.1 J		69.1 J		121	
		Barium	UG/L	176	98%				0	51		51	51	52 J		61.9 J		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2	
		Beryllium	UG/L	0.66	10%				0	5		5	5	52 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2	





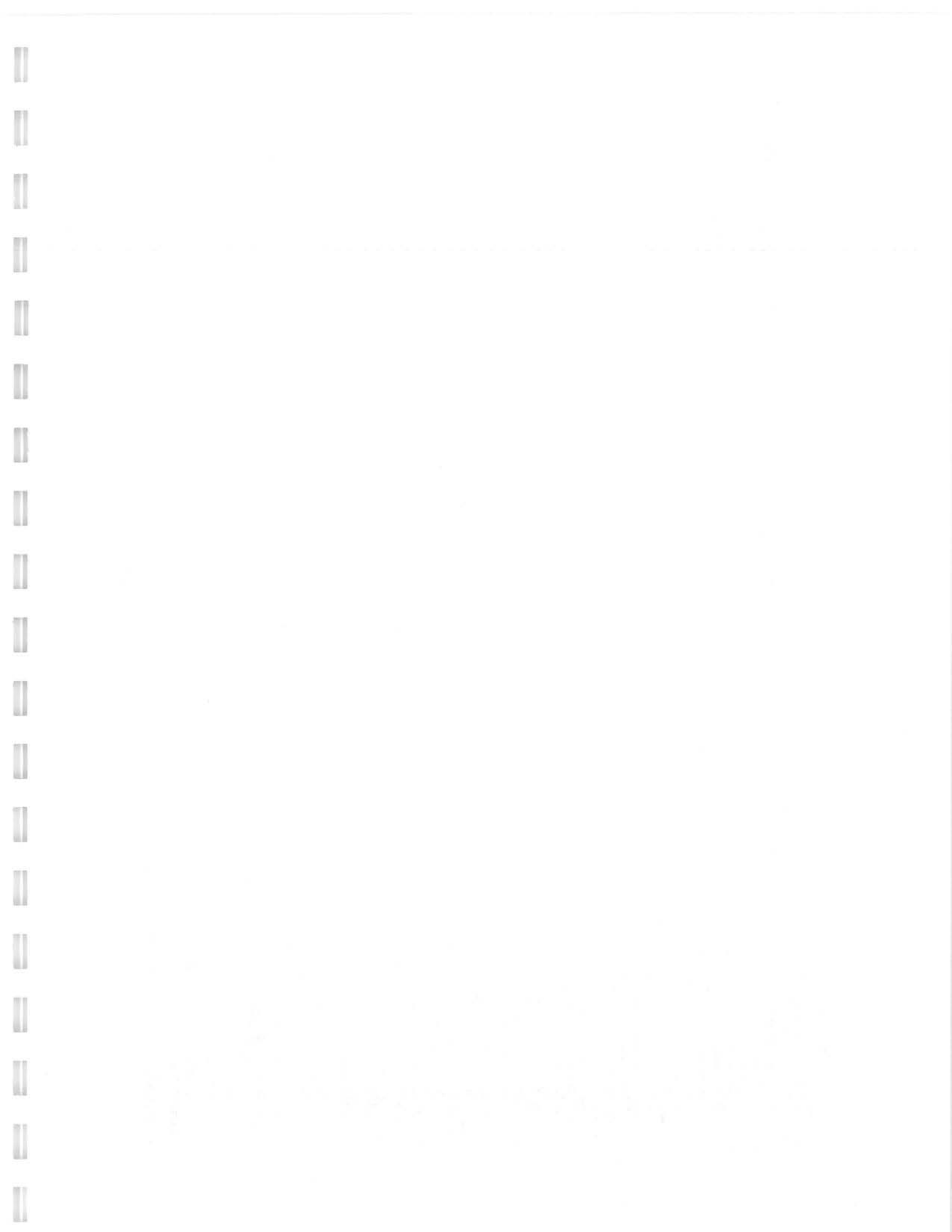




APPENDIX C1  
GROUND WATER CHEMICAL RESULTS - 4Q 1999  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

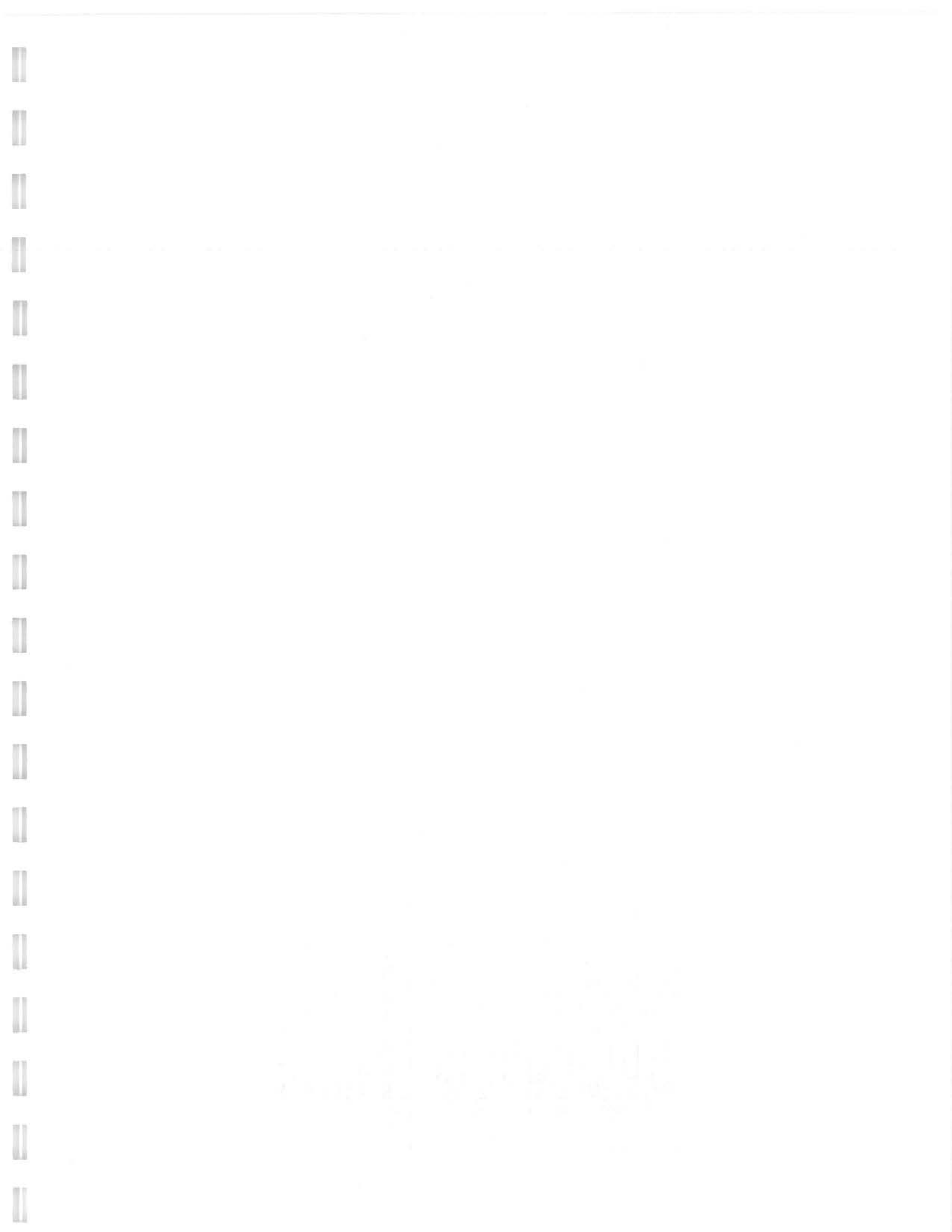
LOCATION ID	FACILITY	FILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
MATRIX	SAMPLE ID	ATER	MM-60	PT-10	PT-11	PT-15
DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
SAMPLE DATE	SAMPLE DATE	ARD2004	ARD2002	ARD2006	ARD2031	ARD2031
8.5	8.5	8.5	40	40	18	18.5
09-Oct-99	09-Oct-99	09-Oct-99	08-Oct-99	10-Oct-99	10-Oct-99	20-Oct-99
SA	SA	SA	SA	SA	SA	SA

STUDY ID	FREQUENCY	NYSDC	NUMBER	NUMBER	NUMBER	AL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN
SAMPLE ROUND	OF	CLASS GA	ABOVE	OF	OF	N	N	N	N	N
PARAMETER	UNIT	MAXIMUM	DETECTION	STD.	STD.	DETECTS	ANALYSES	N	N	N
<b>VOLATILE ORGANICS</b>										
1,1,1-Trichloroethane	UG/L	1	2%	5	0	1	55 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
1,1,2-Trichloroethane	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
1,1-Dichloroethane	UG/L	9	2%	5	1	1	55 U	10 U	10 U	10 U
1,1-Dichloroethene	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
1,2-Dichloroethane	UG/L	4	4%	5	0	2	55 U	10 U	10 U	10 U
1,2-Dichloroethene (total)	UG/L	1100	27%	5	14	15	55 U	10 U	10 U	10 U
1,2-Dichloropropane	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
Acetone	UG/L	2	4%	0	0	2	55 U	10 U	10 U	10 U
Benzene	UG/L	0	0%	0.7	0	0	55 U	10 U	10 U	10 U
Bromodichloromethane	UG/L	0	0%	0	0	0	55 U	10 U	10 U	10 U
Bromoform	UG/L	0	0%	0	0	0	55 U	10 U	10 U	10 U
Carbon disulfide	UG/L	0	0%	0	0	0	55 U	10 U	10 U	10 U
Carbon tetrachloride	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
Chlorobenzene	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
Chlorodibromomethane	UG/L	0	0%	0	0	0	55 U	10 U	10 U	10 U
Chloroethane	UG/L	0	2%	5	0	0	55 U	10 U	10 U	10 U
Chloroform	UG/L	74	2%	7	1	1	55 U	10 U	10 U	10 U
Cis-1,3-Dichloropropene	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
Ethyl benzene	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
Methyl bromide	UG/L	0	0%	0	0	0	55 U	10 U	10 U	10 U
Methyl butyl ketone	UG/L	0	0%	0	0	0	55 U	10 U	10 U	10 U
Methyl chloride	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
Methyl ethyl ketone	UG/L	0	0%	50	0	0	55 U	10 U	10 U	10 U
Methyl isobutyl ketone	UG/L	0	0%	0	0	0	55 U	10 U	10 U	10 U
Methylene chloride	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
Styrene	UG/L	0	0%	0	0	0	55 U	10 U	10 U	10 U
Tetrachloroethene	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
Toluene	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
Total Xylenes	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
Trans-1,3-Dichloropropene	UG/L	0	0%	5	0	0	55 U	10 U	10 U	10 U
Trichloroethene	UG/L	9100	27%	5	10	15	55 U	10 U	10 U	10 U
Vinyl chloride	UG/L	180	5%	2	2	3	55 U	10 U	10 U	10 U
<b>METALS</b>										
Aluminum	UG/L	2600	65%	0	0	34	52 J	16.3 U	16.3 U	340
Antimony	UG/L	3	2%	0	0	1	52 U	4.9 U	4.9 U	2.7 U
Arsenic	UG/L	7	23%	25	0	12	52 U	3.7 U	4.7 J	1.9 U
Barium	UG/L	176	98%	1000	0	51	52 J	46.6 J	176 J	86.6 J
Beryllium	UG/L	0.66	10%	0	0	5	52 U	0.66 J	0.2 U	0.2 U



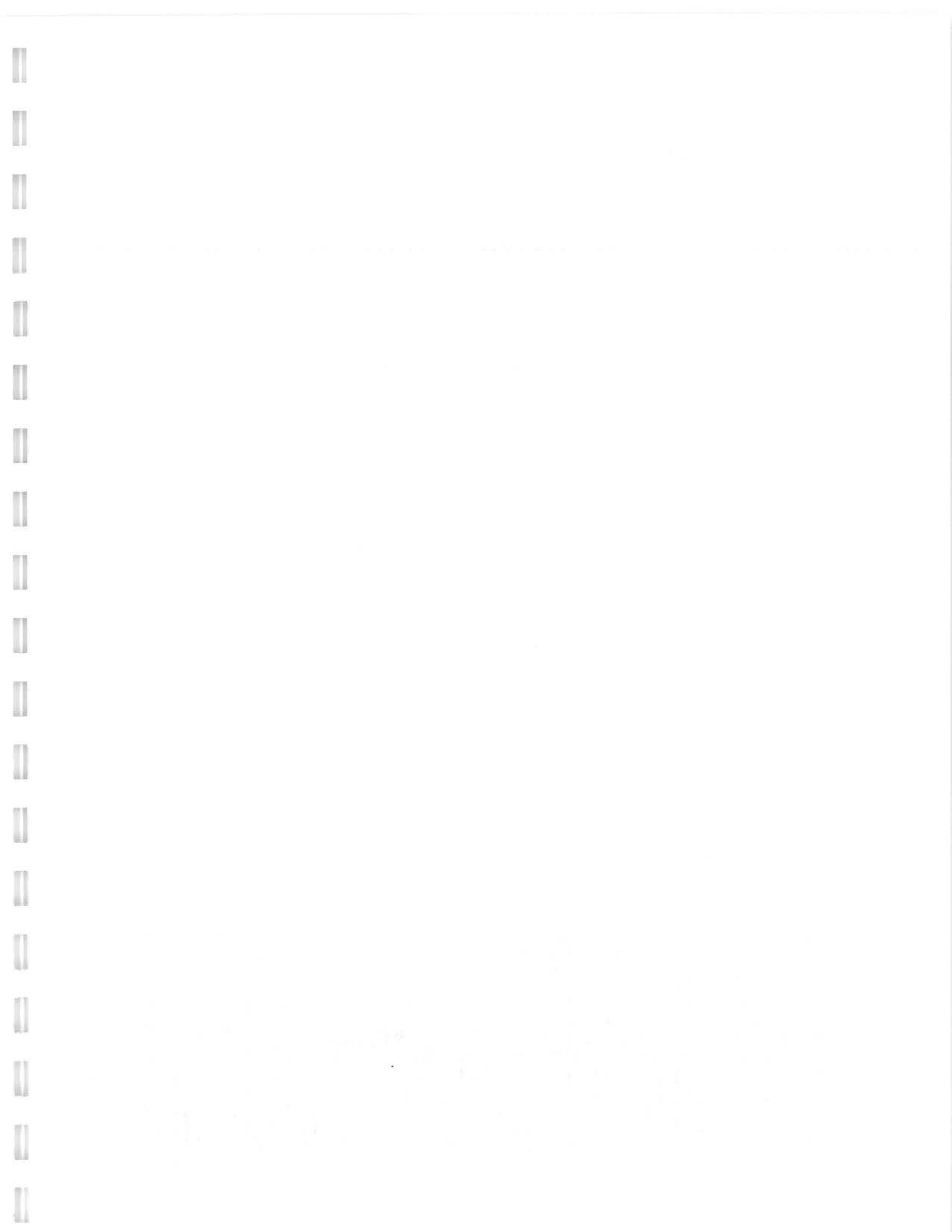
APPENDIX C1  
GROUND WATER CHEMICAL RESULTS - 4Q 1999  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

QC CODE	STUDY ID	FACILITY	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	LOCATION ID	MATRIX	SAMPLE ID	FILL	ASH LANDFILL	PT-10	ASH LANDFILL	PT-11	ASH LANDFILL	PT-15	ASH LANDFILL
PARAMETER	UNIT	MAXIMUM	DETECTION	STD.	STD.	NUMBER	OF	DETECTS	ANALYSES	AL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN
Calcium	UG/L	268000	98%	10	0	51	52	0	52 U	N	1	0.7 U	0.7 U	0.3 U	0.3 U	0.3 U
Chromium	UG/L	5.6	15%	50	0	8	52	0	52 U	N	1	114000	81200 J	92000	92000	92000
Cobalt	UG/L	8.4	4%	0	0	2	52	2	52 U	N	1	0.9 U	0.9 U	0.9 U	5.6 J	5.6 J
Copper	UG/L	6.1	10%	200	0	5	52	5	52 U	N	1	2.5 U	2.5 U	2 U	8.4 J	8.4 J
Cyanide	UG/L	0	0%	100	0	0	52	0	52 U	N	1	1.9 U	1.9 U	1.7 U	6.1 J	6.1 J
Iron	UG/L	11600	67%	300	14	35	52	35	52 U	N	1	5 U	5 U	5 U	5 U	5 U
Lead	UG/L	5.4	10%	25	0	5	52	5	52 U	N	1	14.7 U	21.8 J	457	4410 J	4410 J
Magnesium	UG/L	47100	98%	0	0	51	52	0	52 U	N	1	1.2 U	1.2 U	1 U	5.4	5.4
Manganese	UG/L	3140	83%	300	7	43	52	43	52 U	N	1	16400	33300 J	31900	22100	22100
Mercury	UG/L	0.2	12%	2	0	6	52	6	52 U	N	1	1.8 J	105 J	38.1	259	259
Nickel	UG/L	5.6	12%	0	0	6	52	6	52 U	N	1	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Potassium	UG/L	18400	98%	10	0	51	52	0	52 U	N	1	2.6 U	2.6 U	1.7 U	5.6 J	5.6 J
Selenium	UG/L	2.6	2%	50	0	1	52	1	52 U	N	1	2320 J	2560 J	3160 J	3460 J	3460 J
Silver	UG/L	0	0%	27	0	0	52	0	52 U	N	1	2.8 U	2.8 U	2.4 U	2.8 U	2.8 U
Sodium	UG/L	142000	98%	20000	27	51	52	51	52 U	N	1	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Thallium	UG/L	10.8	19%	0	0	10	52	10	52 U	N	1	19900	33500 J	19700	27600	27600
Vanadium	UG/L	4.5	6%	0	0	3	52	3	52 U	N	1	2.9 U	2.9 U	2.7 U	3.3 J	3.3 J
Zinc	UG/L	134	81%	300	0	42	52	42	52 J	N	1	3.2 U	3.2 U	1.5 U	4.5 J	4.5 J
												1.8 U	1.8 U	9.5 J	34.1	34.1



APPENDIX C1  
GROUND WATER CHEMICAL RESULTS - 4Q 1999  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

STUDY ID	FREQUENCY	NYSDEC	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
SAMPLE ROUND	OF	CLASS	GA	ABOVE	STANDARD	DETECTS	ANALYSES	N	N	N	N	N	N	N	N	N	N	N	N
PARAMETER	UNIT	MAXIMUM	DETECTION	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
VOLATILE ORGANICS																			
1,1,1-Trichloroethane	UG/L	1	2%	5	0	1	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	UG/L	9	2%	5	1	1	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	UG/L	4	4%	5	0	2	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)	UG/L	1100	27%	5	14	15	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	UG/L	2	4%	0	0	2	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	0	0%	0.7	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromodichloroethane	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorodibromomethane	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	UG/L	74	2%	7	1	1	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis-1,3-Dichloropropene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethyl benzene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl bromide	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl butyl ketone	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl chloride	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl ethyl ketone	UG/L	0	0%	50	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl isobutyl ketone	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene chloride	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	UG/L	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Xylenes	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trans-1,3-Dichloropropene	UG/L	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	UG/L	9100	27%	5	10	15	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	UG/L	180	5%	2	2	3	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
<b>METALS</b>																			
Aluminum	UG/L	2600	65%	0	0	34	52	16.3 U	16.3 U	198 J	516 J	184							
Antimony	UG/L	3	2%	0	0	1	52	4.9 U	4.9 U	2.7 U	2.7 U	4.9							
Arsenic	UG/L	7	23%	0	0	12	52	4.4 J	3.7 U	1.9 U	3.7 J	7							
Barium	UG/L	176	98%	0	0	51	52	40.6 J	44.5 J	50.5 J	50.3 J	173							
Beryllium	UG/L	0.66	10%	0	0	5	52	0.57 J	0.2 U	0.2 U	0.2 U	0.46							



APPENDIX C1  
 GROUND WATER CHEMICAL RESULTS - 4Q 1999  
 GROUNDWATER MONITORING -  
 ASH REMEDIAL DESIGN  
 SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

STUDY ID	PARAMETER	UNIT	FREQUENCY OF DETECTION	NYSDC CLASS GA	NUMBER ABOVE STD.	NUMBER OF DETECTS	NUMBER OF ANALYSES	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN
Calcium	UG/L	0	98%	10	0	51	52	0.7 U	1	0.7 U	1	0.3 UJ	0.3 U	1	0.7	0.3 U	1	0.7	0.3 U	1	0.7
Chromium	UG/L	268000	15%	50	0	8	52	95500	100000	0.9 U	0.9 U	2.5 U	0.9 U	0.9 U	202000	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	202000
Cobalt	UG/L	8.4	4%	200	0	2	52	2.5 U	2.5 U	1.9 U	1.9 U	2.5 U	2.5 U	3.2	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	3.2	
Copper	UG/L	6.1	10%	200	0	5	52	5 U	5 U	1.9 U	1.9 U	5 UJ	5 UJ	5	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5	
Cyanide	UG/L	0	0%	100	0	0	52	14.7 U	14.7 U	1.2 U	1.2 U	14.7 U	14.7 U	5	14.7 U	14.7 U	14.7 U	14.7 U	14.7 U	5	
Iron	UG/L	11600	67%	300	14	35	52	14.7 U	14.7 U	1.2 U	1.2 U	14.7 U	14.7 U	11600	14.7 U	14.7 U	14.7 U	14.7 U	14.7 U	11600	
Lead	UG/L	5.4	10%	25	0	5	52	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2	
Magnesium	UG/L	47100	98%	300	7	43	52	7.3 J	12400	3.7 J	3.7 J	10200 J	27900	25700	7.3 J	7.3 J	7.3 J	7.3 J	7.3 J	7.3 J	25700
Manganese	UG/L	3140	83%	300	0	6	52	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	3140	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	3140	
Mercury	UG/L	0.2	12%	2	0	6	52	2.6 U	2.6 U	1.7 UJ	1.7 UJ	2.4 U	2.4 U	0.16	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	0.16	
Nickel	UG/L	5.6	12%	10	0	1	52	1050 J	1160 J	2.8 U	2.8 U	2.4 UJ	2.4 UJ	2.8	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8	
Potassium	UG/L	18400	98%	20000	0	51	52	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6	
Selenium	UG/L	2.6	2%	50	0	0	52	7140	7780	2.9 U	2.9 U	2.7 UJ	2.7 UJ	2.9	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9	
Silver	UG/L	0	0%	20000	0	51	52	2.9 U	2.9 U	1.5 UJ	1.5 UJ	4.2 J	4.2 J	10.8	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	10.8	
Sodium	UG/L	142000	98%	300	0	42	52	1.8 U	2.9 J	2.3 J	2.3 J	1.5 U	1.5 U	3.2	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.2	
Thallium	UG/L	10.8	19%	0	0	10	52	3.2 U	3.2 U	2.3 J	2.3 J	134	134	4.4	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	4.4	
Vanadium	UG/L	4.5	6%	0	0	3	52	1.8 U	2.9 J	2.3 J	2.3 J	1.5 U	1.5 U	3.2	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	3.2	
Zinc	UG/L	134	81%	300	0	42	52	1.8 U	2.9 J	2.3 J	2.3 J	1.5 U	1.5 U	4.4	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	4.4	



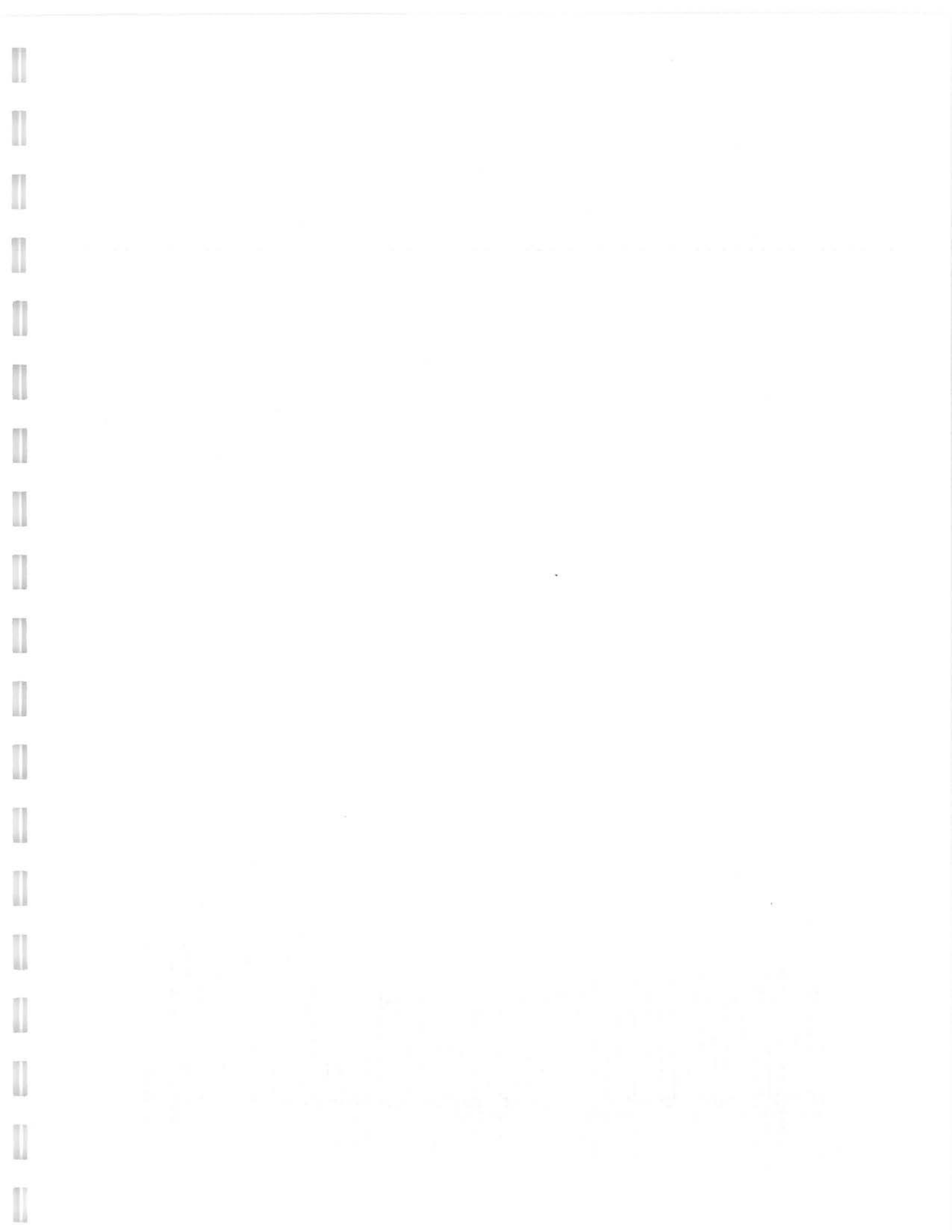


APPENDIX C1  
GROUND WATER CHEMICAL RESULTS - 4Q 1999  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN

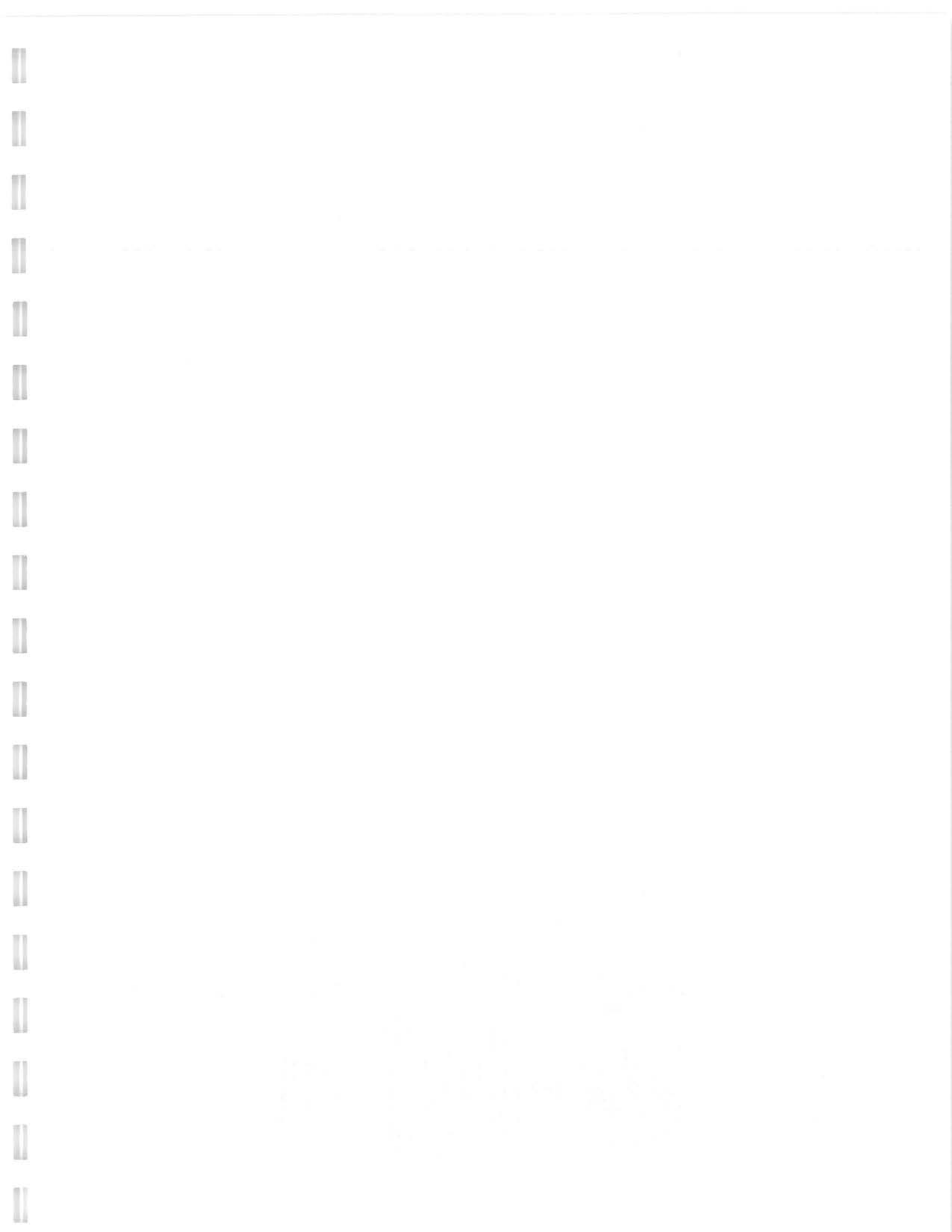
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	FACILITY LOCATION ID	MATRIX	SAMPLE ID	FILL	ATER	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
10	10	18-Oct-99	PT-20	GROUND WATER	ARD2026	ASH LANDFILL	GROUND WATER	PT-20	GROUND WATER	ARD2025	PT-21A	GROUND WATER
10	10	18-Oct-99	DU			SA		18-Oct-99			SA	
10	10	21-Oct-99	PT-22	GROUND WATER	ARD2045	ASH LANDFILL	GROUND WATER	PT-22	GROUND WATER	ARD2045	PT-21A	GROUND WATER
11.3	11.3	21-Oct-99	SA			SA		21-Oct-99			SA	

STUDY ID	PARAMETER ROUND	UNIT	MAXIMUM	DETECTION	CLASS	NYSDC	GA	STG	NUMBER ABOVE	STG	NUMBER OF	DETECTS	NUMBER OF	ANALYSES	AL DESIGN	N	ASH REMEDIAL DESIGN	N	ASH REMEDIAL DESIGN	N	ASH REMEDIAL DESIGN	N	ASH REMEDIAL DESIGN	N	
																									OF
<b>VOLATILE ORGANICS</b>																									
	1,1,1-Trichloroethane	UG/L	1	2%					5		0	1		55 U											
	1,1,2,2-Tetrachloroethane	UG/L	0	0%					5		0	0		55 U											
	1,1,2-Trichloroethane	UG/L	0	0%							0	0		55 U											
	1,1-Dichloroethane	UG/L	9	2%					5		1	1		55 U											
	1,1-Dichloroethane	UG/L	0	0%					5		0	0		55 U											
	1,2-Dichloroethane	UG/L	4	4%					5		0	2		55 U											
	1,2-Dichloroethane (total)	UG/L	1100	27%					5		14	15		55 U											
	1,2-Dichloropropane	UG/L	0	0%					5		0	0		55 U											
	Acetone	UG/L	2	4%							2	2		55 U											
	Benzene	UG/L	0	0%					0.7		0	0		55 U											
	Bromodichloromethane	UG/L	0	0%							0	0		55 U											
	Bromoform	UG/L	0	0%							0	0		55 U											
	Carbon disulfide	UG/L	0	0%							0	0		55 U											
	Carbon tetrachloride	UG/L	0	0%					5		0	0		55 U											
	Chlorobenzene	UG/L	0	0%					5		0	0		55 U											
	Chlorodibromomethane	UG/L	0	0%							0	0		55 U											
	Chloroethane	UG/L	0	0%					5		0	0		55 U											
	Chloroform	UG/L	74	2%					7		1	1		55 U											
	Cis-1,3-Dichloropropene	UG/L	0	0%					5		0	0		55 U											
	Ethyl benzene	UG/L	0	0%					5		0	0		55 U											
	Methyl bromide	UG/L	0	0%							0	0		55 U											
	Methyl butyl ketone	UG/L	0	0%							0	0		55 U											
	Methyl chloride	UG/L	0	0%					5		0	0		55 U											
	Methyl ethyl ketone	UG/L	0	0%					50		0	0		55 U											
	Methyl isobutyl ketone	UG/L	0	0%							0	0		55 U											
	Methylene chloride	UG/L	0	0%					5		0	0		55 U											
	Styrene	UG/L	0	0%							0	0		55 U											
	Tetrachloroethane	UG/L	0	0%					5		0	0		55 U											
	Toluene	UG/L	0	0%					5		0	0		55 U											
	Total Xylenes	UG/L	0	0%					5		0	0		55 U											
	Trans-1,3-Dichloropropene	UG/L	0	0%					5		0	0		55 U											
	Trichloroethane	UG/L	9100	27%					5		10	15		55 U											
	Vinyl chloride	UG/L	180	5%					2		2	3		55 U											
<b>METALS</b>																									
	Aluminum	UG/L	2600	65%							0	34		52 J											
	Antimony	UG/L	3	2%							0	1		52 U											
	Arsenic	UG/L	7	23%					25		0	12		52 J											
	Barium	UG/L	176	98%					1000		0	51		52 J											
	Beryllium	UG/L	0.66	10%							0	5		52 J											



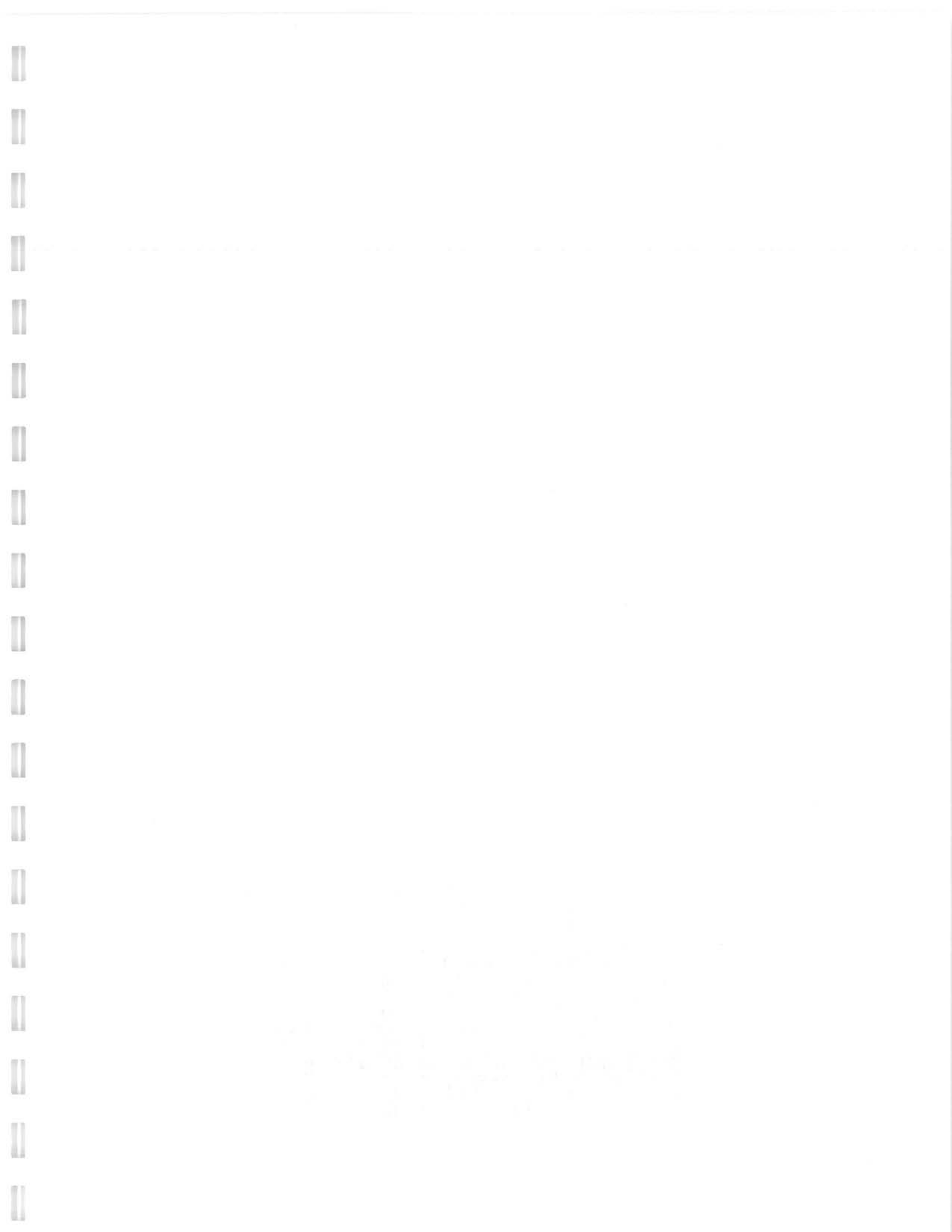










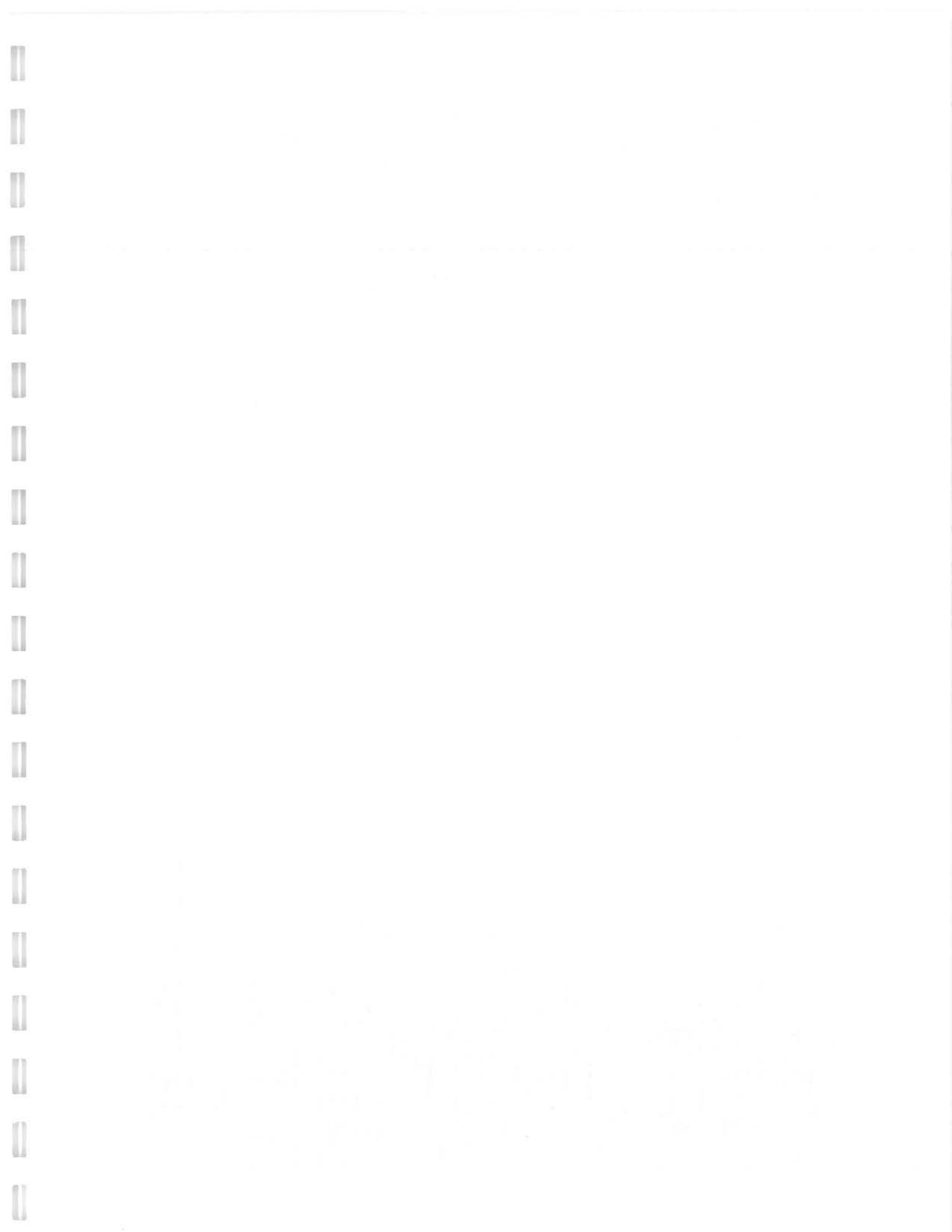






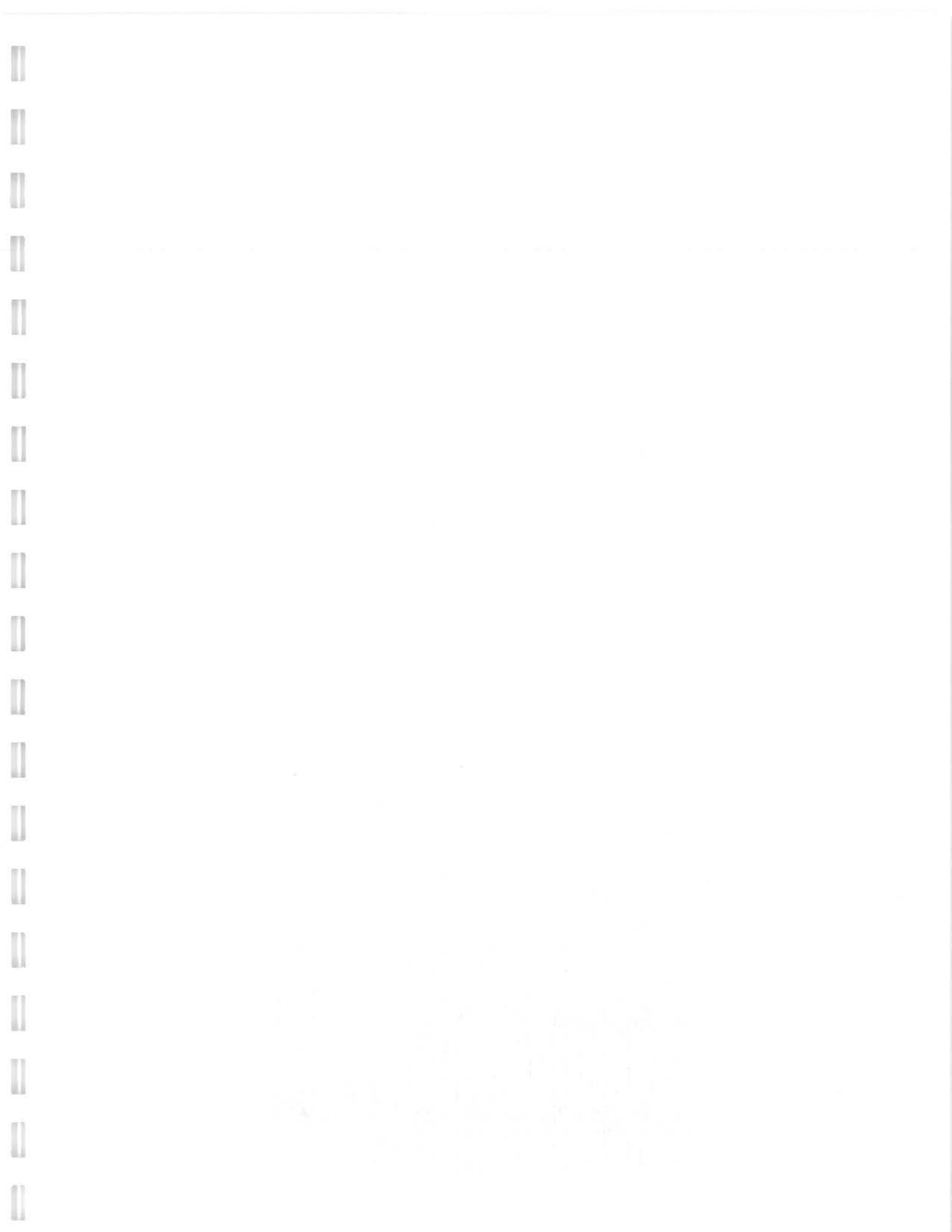






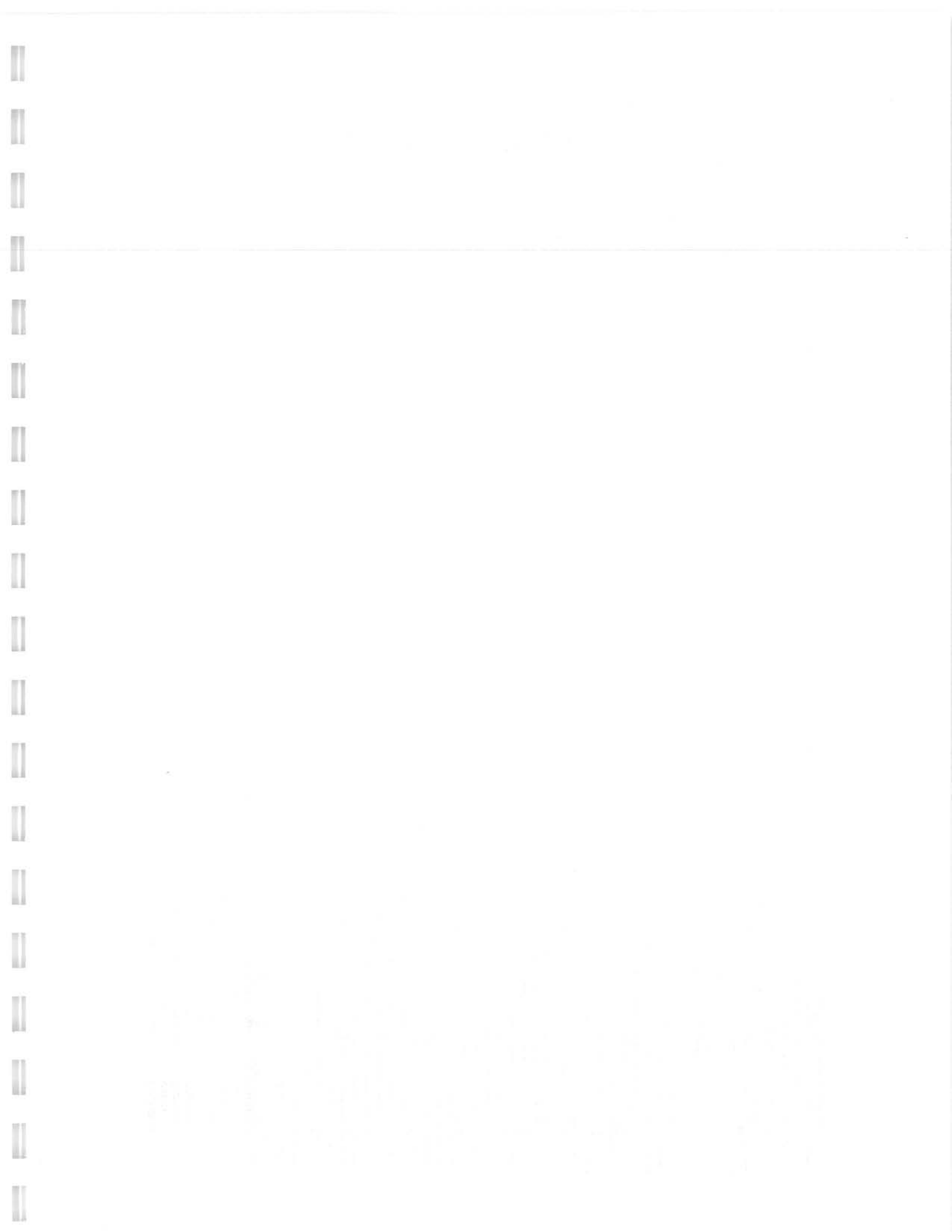
APPENDIX C2  
 GROUND WATER CHEMICAL RESULTS - 1Q 2000  
 GROUNDWATER MONITORING - ASH REMEDIAL DESIGN  
 SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	OF	CLASS	GA	STD	NUMBER	DETECTS	OF	ANALYSES	N	N	N	N	N	N	N	N	N	N
									ABOVE	OF	OF	N	2	2	2	2	2	2	2	2	2	2
Antimony		UG/L	45	12%					0	6	51	51										
Arsenic		UG/L	5	22%					0	11	51	51										
Barium		UG/L	173	100%					0	51	51	51										
Beryllium		UG/L	0.26	14%					0	7	51	51										
Cadmium		UG/L	0.35	2%					0	1	51	51										
Calcium		UG/L	391000	100%					0	51	51	51										
Chromium		UG/L	41	14%					0	7	51	51										
Cobalt		UG/L	2	6%					0	3	51	51										
Copper		UG/L	14.6	33%					0	17	51	51										
Cyanide		UG/L	0	0%					0	0	51	51										
Iron		UG/L	6350	63%					14	32	51	51										
Lead		UG/L	3.8	10%					0	5	51	51										
Magnesium		UG/L	85900	100%					0	51	51	51										
Manganese		UG/L	344	100%					2	51	51	51										
Mercury		UG/L	0.14	2%					0	1	51	51										
Nickel		UG/L	6.2	10%					0	5	51	51										
Potassium		UG/L	25600	100%					0	51	51	51										
Selenium		UG/L	3	2%					10	0	51	51										
Silver		UG/L	2.8	2%					0	1	51	51										
Sodium		UG/L	175000	90%					23	46	51	51										
Thallium		UG/L	7.4	6%					0	3	51	51										
Vanadium		UG/L	10.8	8%					0	4	51	51										
Zinc		UG/L	1620	100%					1	51	51	51										



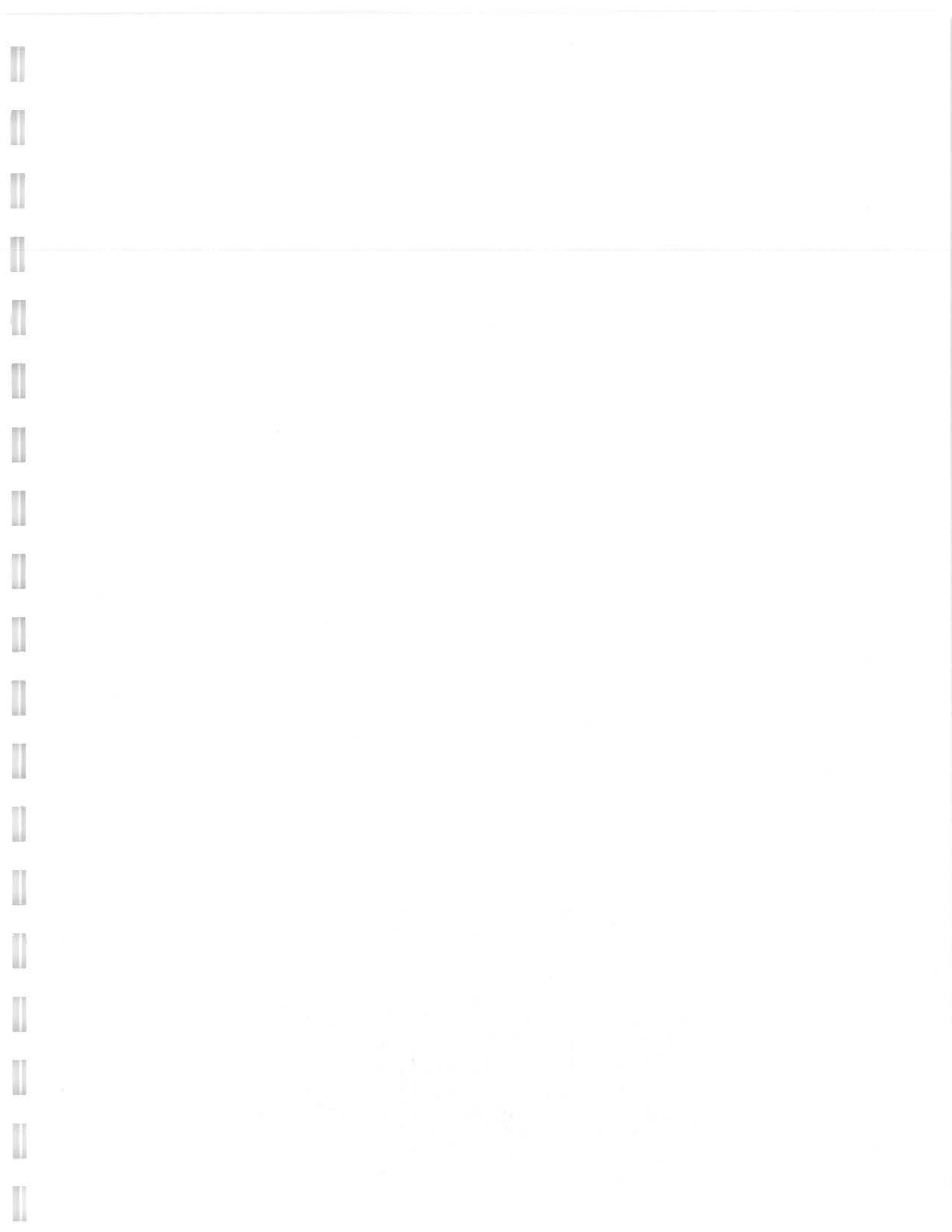
**APPENDIX C2  
GROUND WATER CHEMICAL RESULTS - IQ 2000  
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN  
SENeca ARMY DEPOT ACTIVITY ROMULUS, NY**

STUDY ID	PARAMETER	UNIT	MAXIMUM OF DETECTION	CLASS OF STD	NYSDEC ABOVE STD	NUMBER OF DETECTS	ANALYSES N	FACILITY LOCATION ID		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER		GROUND WATER					
SAMPLE ROUND								DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	OC CODE	MW-29	MMW-30	MMW-30	MW-31	MMW-32	MMW-33	ASH REMEDIAL DESIGN		ASH REMEDIAL DESIGN		ASH REMEDIAL DESIGN	
																		SA	DU	SA	SA	SA	SA
	<b>VOLATILE ORGANICS</b>																						
	1,1,1-Trichloroethane	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,1,2-Trichloroethane	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,1-Dichloroethane	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,1-Dichloroethene	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,2,4-Trichlorobenzene	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,2-Dibromo-3-chloropropane	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,2-Dibromoethane	UG/L	0	0%	4.7	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,2-Dichlorobenzene	UG/L	3	2%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,2-Dichloroethane	UG/L	3	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,2-Dichloropropane	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,3-Dichlorobenzene	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	1,4-Dichlorobenzene	UG/L	0	0%	4.7	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Acetone	UG/L	1	4%	7	0	54	19 R	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U				
	Benzene	UG/L	0	0%	0.7	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Bromochloromethane	UG/L	0	0%	0	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Bromodichloromethane	UG/L	0	0%	0	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Bromoforn	UG/L	0	0%	0	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Carbon disulfide	UG/L	0	0%	0	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Carbon tetrachloride	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Chlorobenzene	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Chlorobromomethane	UG/L	0	0%	0	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Chloroethane	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Chloroform	UG/L	0	0%	7	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Cis-1,2-Dichloroethene	UG/L	980	28%	5	14	54	72	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Cis-1,3-Dichloropropene	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Ethyl benzene	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Methyl bromide	UG/L	0	0%	0	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Methyl butyl ketone	UG/L	0	0%	0	0	54	19 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U				
	Methyl chloride	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Methyl ethyl ketone	UG/L	0	0%	50	0	54	19 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U				
	Methyl isobutyl ketone	UG/L	0	0%	0	0	54	19 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U				
	Methylene chloride	UG/L	0	0%	5	0	54	8 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U				
	Styrene	UG/L	0	0%	0	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Tetrachloroethene	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Toluene	UG/L	2	6%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Total Xylenes	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Trans-1,2-Dichloroethene	UG/L	2	4%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Trichloroethene	UG/L	0	0%	5	0	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Vinyl chloride	UG/L	760	28%	5	8	54	2 J	0.7 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	Vinyl fluoride	UG/L	25	2%	2	1	54	4 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U				
	<b>METALS</b>																						
	Aluminum	UG/L	7700	49%	0	25	51	98 J	15.5 UJ	15.5 UJ	833 J	118 J	15.5 UJ										



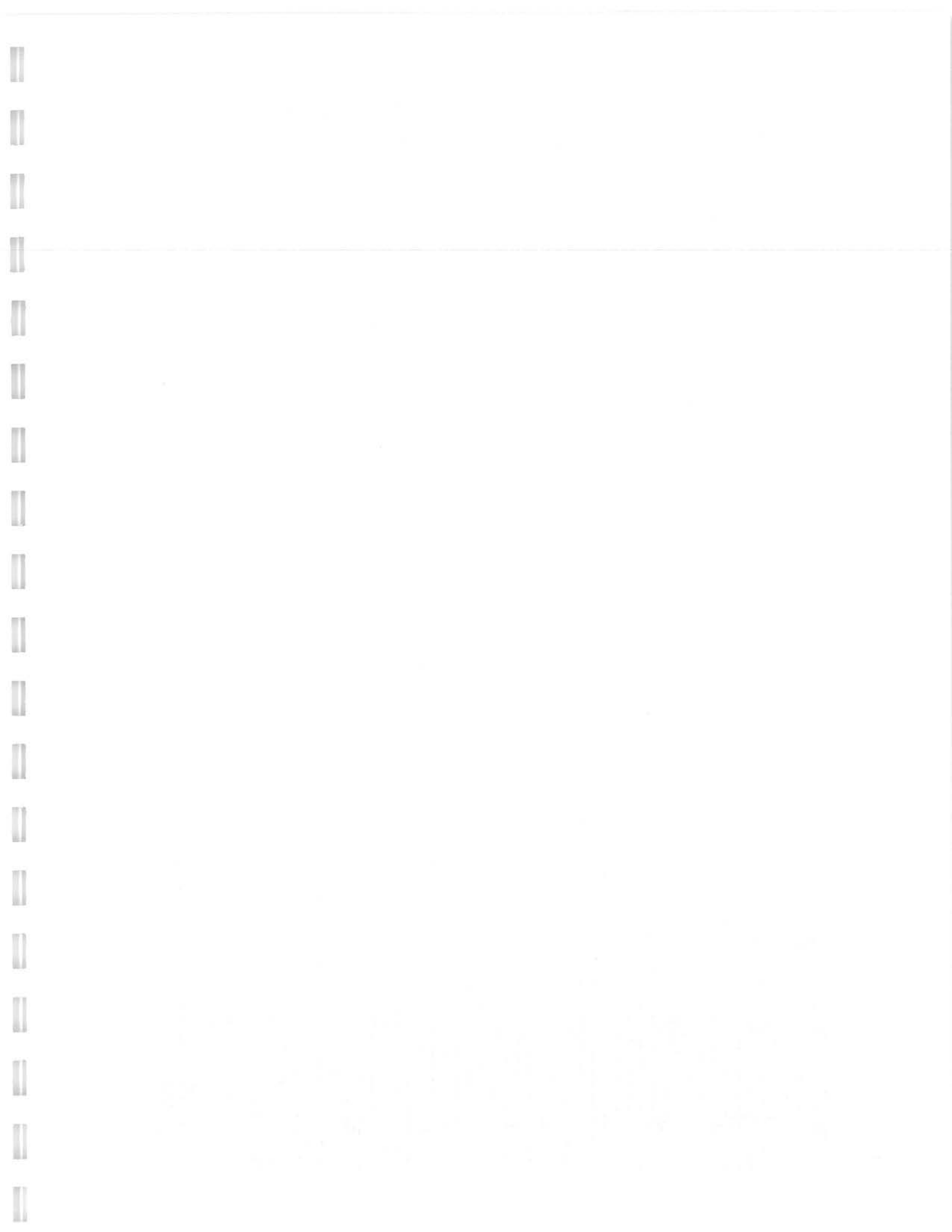






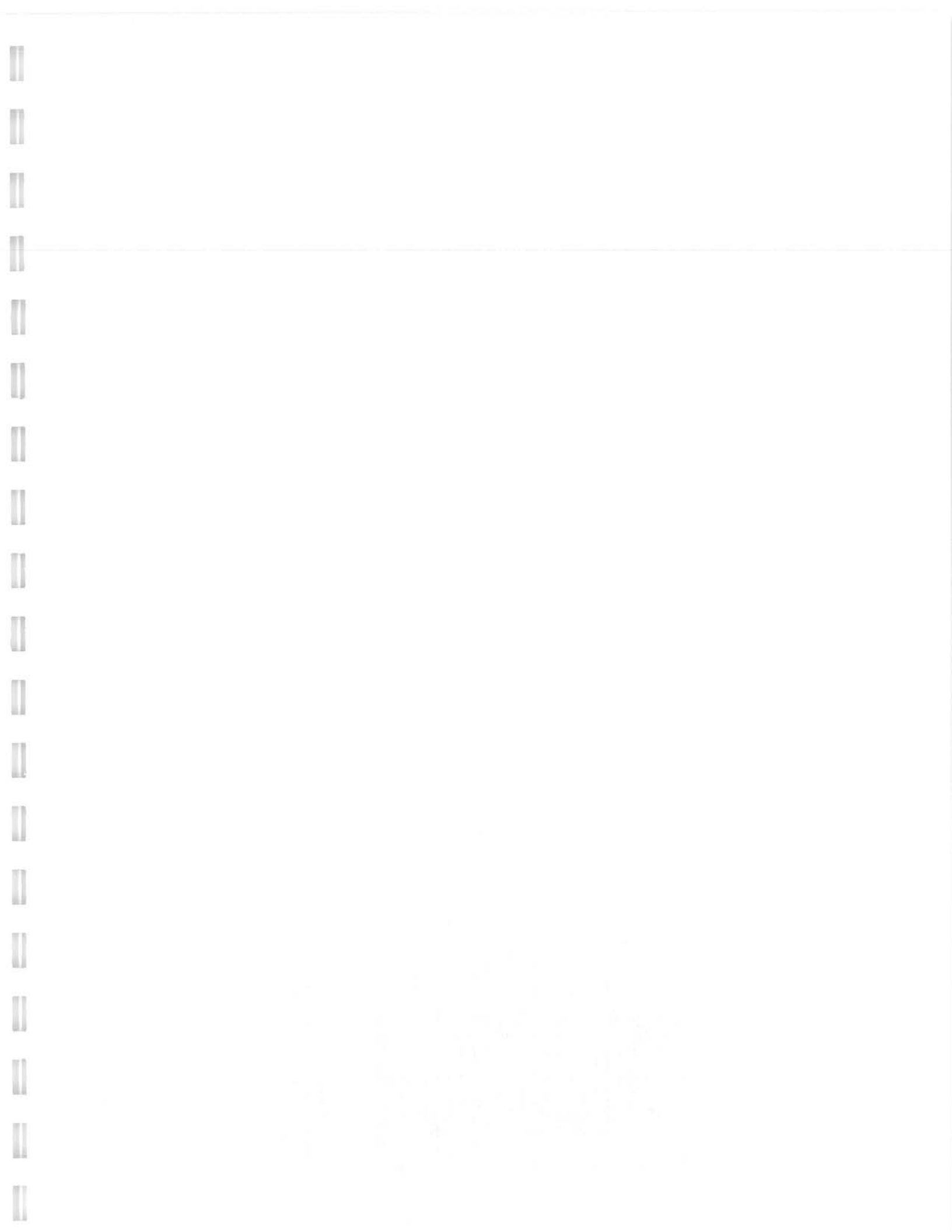
**APPENDIX C2**  
**GROUND WATER CHEMICAL RESULTS - 1Q 2000**  
**GROUNDWATER MONITORING - ASH REMEDIAL DESIGN**  
**SENeca ARMY DEPOT ACTIVITY ROMULUS, NY**

STUDY ID	SAMPLE ROUND	PARAMETER	UNIT	MAXIMUM DETECTION	FREQUENCY OF CLASS	NYSDC GA	DEPT TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	QC CODE	FACILITY		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL	
											LOCATION ID	MATRIX	NUMBER ABOVE	DETECTS	NUMBER OF ANALYSES	N	N	N	N	N	N	
<b>VOLATILE ORGANICS</b>																						
1,1,1-Trichloroethane	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane	UGL	0	0%	4.7	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	UGL	0	0%	2%	5	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	UGL	0	0%	4.7	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Acetone	UGL	1	4%	0.7	0	0	54	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Benzene	UGL	0	0%	0.7	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	UGL	0	0%	0	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	UGL	0	0%	0	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	UGL	0	0%	0	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	UGL	0	0%	0	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	UGL	0	0%	0	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	UGL	0	0%	7	0	0	54	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Cis-1,2-Dichloroethene	UGL	980	28%	5	14	15	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,3-Dichloropropene	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethyl benzene	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl bromide	UGL	0	0%	0	0	0	54	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Methyl butyl ketone	UGL	0	0%	0	0	0	54	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl chloride	UGL	0	0%	5	0	0	54	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Methyl ethyl ketone	UGL	0	0%	50	0	0	54	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Methyl isobutyl ketone	UGL	0	0%	0	0	0	54	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	UGL	0	0%	5	0	0	54	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Styrene	UGL	0	0%	0	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	UGL	2	6%	5	0	3	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylenes	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	UGL	2	4%	5	0	2	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,3-Dichloropropene	UGL	0	0%	5	0	0	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	UGL	760	28%	5	8	15	54	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	UGL	25	2%	2	1	1	54	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
<b>METALS</b>																						
Aluminum	UGL	7700	49%	0	25	51	55.5 J	91.8 J	20.3 J	395 J	80.4 J	15.5 UJ										

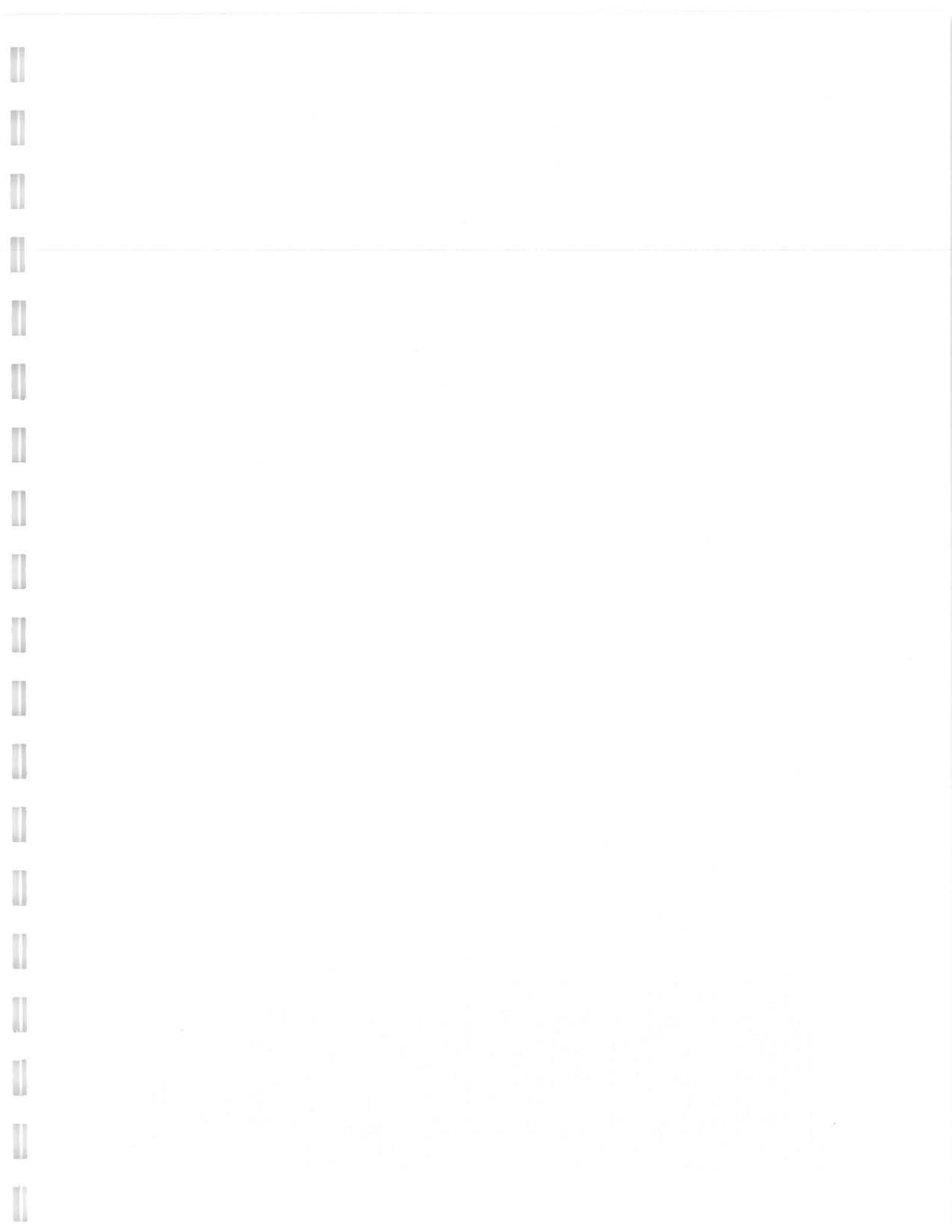


APPENDIX C2  
GROUND WATER CHEMICAL RESULTS - 1Q 2000  
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN  
SENeca ARMY DEPOT ACTIVITY ROMEULIS, NY

STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	OF	CLASS	GA	STD	NUMBER	DETECTS	ANALYSES	N	N	N	N	N	N	N	N	N	N	FACILITY		DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	OC CODE
																						LOCATION ID	MATRIX				
	Antimony	UG/L	4.5	12%	0	6	51	2.2 U	0	6	51	2.2 U	3.6 J	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	ASH LANDFILL	ASH LANDFILL	15	15	1/9/2000	SA
	Arsenic	UG/L	5	22%	0	11	51	2.5 U	0	11	51	3.2 J	3.2 J	2.5 U	54.7 J	54.9 J	170 J	170 J	37 J	37 J	37 J	ASH LANDFILL	ASH LANDFILL	45	45	1/11/2000	SA
	Barium	UG/L	173	100%	0	51	51	96.7 J	0	51	51	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	ASH LANDFILL	ASH LANDFILL	12	12	1/11/2000	SA
	Beryllium	UG/L	0.26	14%	0	7	51	0.1 U	0	7	51	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	ASH LANDFILL	ASH LANDFILL	11.5	11.5	1/10/2000	SA
	Cadmium	UG/L	0.35	2%	0	1	51	0.2 U	0	1	51	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	ASH LANDFILL	ASH LANDFILL	20	20	1/10/2000	SA
	Calcium	UG/L	391000	100%	0	51	51	75800	0	51	51	14400	14400	107000	107000	95000	95000	95900	95900	94400	94400	ASH LANDFILL	ASH LANDFILL	9.5	9.5	1/6/2000	SA
	Chromium	UG/L	4.1	14%	0	7	51	1 U	0	7	51	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	ASH LANDFILL	ASH LANDFILL	1.3 U	1.3 U		
	Cobalt	UG/L	2	6%	0	3	51	1.3 U	0	3	51	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	ASH LANDFILL	ASH LANDFILL	1.9 U	1.9 U		
	Copper	UG/L	14.6	33%	0	17	51	1.6 U	0	17	51	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	ASH LANDFILL	ASH LANDFILL	10 U	10 U		
	Cyanide	UG/L	0	0%	0	0	51	10 U	0	0	51	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	ASH LANDFILL	ASH LANDFILL	20.3 UJ	20.3 UJ		
	Iron	UG/L	6350	63%	0	32	51	203 J	0	32	51	97.8 J	97.8 J	20.3 UJ	20.3 UJ	498 J	498 J	595 J	595 J	595 J	595 J	ASH LANDFILL	ASH LANDFILL	1.3 U	1.3 U		
	Lead	UG/L	3.8	10%	0	5	51	1.3 U	0	5	51	1.4 J	1.4 J	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	ASH LANDFILL	ASH LANDFILL	15900	15900		
	Magnesium	UG/L	85900	100%	0	51	51	13300	0	51	51	4690 J	4690 J	15900	15900	12800	12800	15800	15800	12700	12700	ASH LANDFILL	ASH LANDFILL	53.1	53.1		
	Manganese	UG/L	344	100%	2	51	51	39.7	2	51	51	44.4	44.4	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	ASH LANDFILL	ASH LANDFILL	1.7 U	1.7 U		
	Nickel	UG/L	6.2	10%	0	5	51	1.8 J	0	5	51	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	ASH LANDFILL	ASH LANDFILL	895 J	895 J		
	Potassium	UG/L	25600	100%	0	51	51	1730 J	0	51	51	1650 J	1650 J	1250 J	1250 J	7990	7990	7990	7990	1680 J	1680 J	ASH LANDFILL	ASH LANDFILL	2.2 U	2.2 U		
	Selenium	UG/L	3	2%	0	1	51	2.5 U	0	1	51	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	ASH LANDFILL	ASH LANDFILL	1.3 UJ	1.3 UJ		
	Silver	UG/L	2.8	2%	0	1	51	1 UJ	0	1	51	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	ASH LANDFILL	ASH LANDFILL	6750	6750		
	Sodium	UG/L	175000	90%	23	46	51	41200	23	46	51	107000	107000	29300	29300	10400	10400	6750	6750	7400	7400	ASH LANDFILL	ASH LANDFILL	3.2 UJ	3.2 UJ		
	Thallium	UG/L	7.4	6%	0	3	51	3.2 U	0	3	51	3.2 U	3.2 U	3.2 U	3.2 U	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 U	3.2 U	ASH LANDFILL	ASH LANDFILL	1.8 U	1.8 U		
	Vanadium	UG/L	10.8	8%	0	4	51	1.8 U	0	4	51	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	ASH LANDFILL	ASH LANDFILL	7.5 J	7.5 J		
	Zinc	UG/L	1620	100%	1	51	51	19.1 J	1	51	51	6.4 J	6.4 J	5.4 J	5.4 J	13.8 J	13.8 J	7.5 J	7.5 J	11.2 J	11.2 J	ASH LANDFILL	ASH LANDFILL				



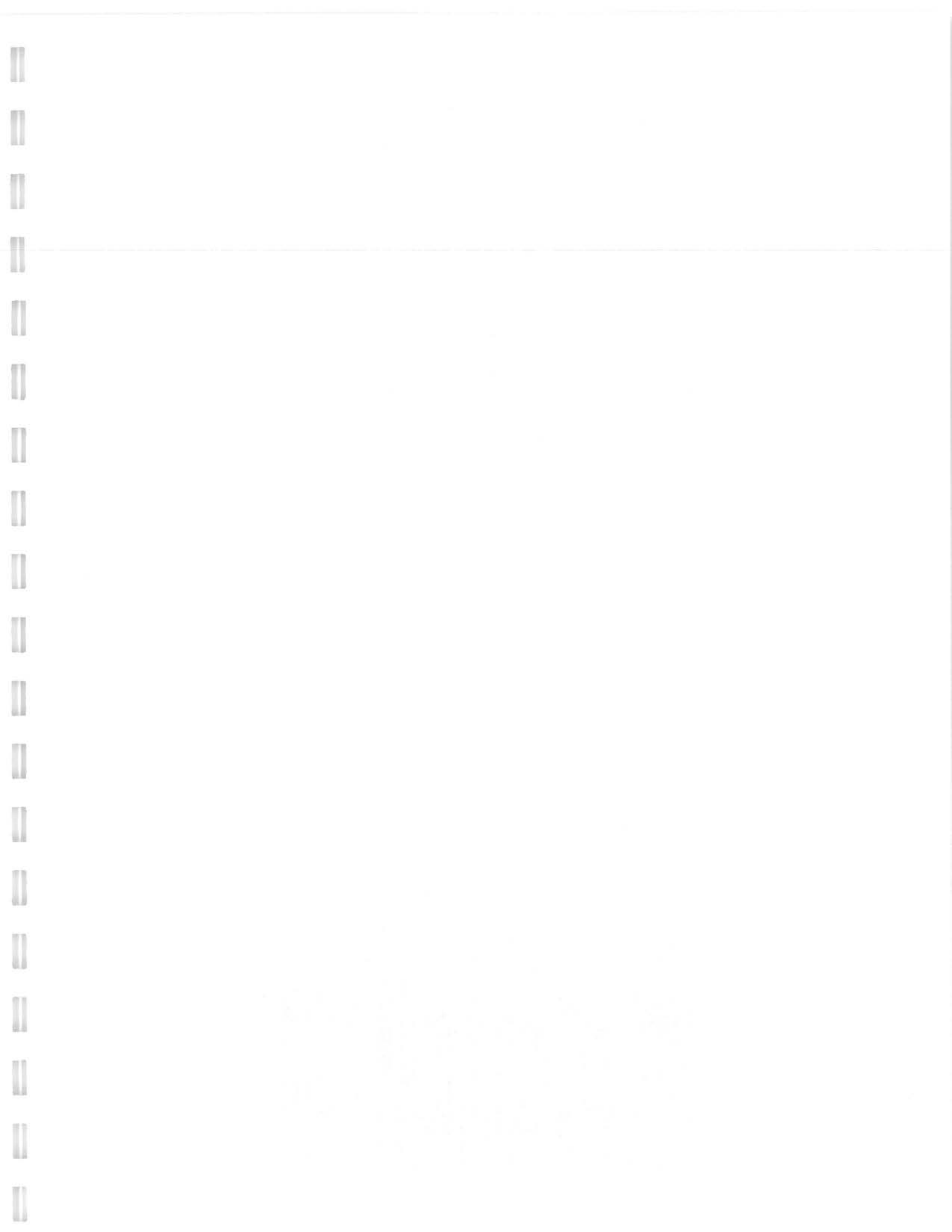






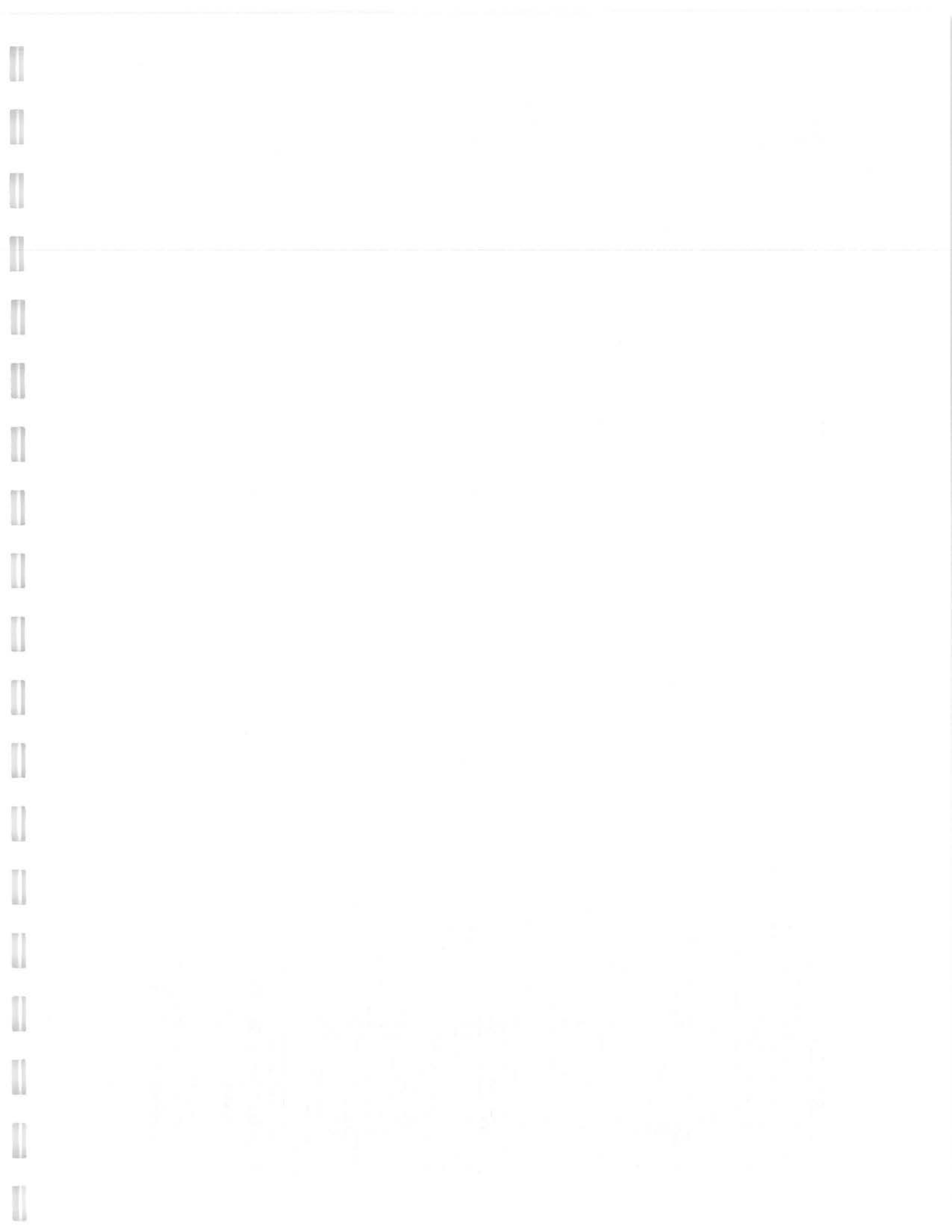
**APPENDIX C2**  
**GROUNDWATER CHEMICAL RESULTS - 1Q 2000**  
**GROUNDWATER MONITORING - ASH REMEDIAL DESIGN**  
**SENeca ARMY DEPOT ACTIVITY ROMULUS, NY**

STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	OF	CLASS GA	NUMBER	ABOVE	STD	DETECTS	ANALYSES	N	N	N	N	N	N	N	N	N	FACILITY			OC CODE
																					LOCATION ID	MATRIX	SAMPLE ID	
			4.5	12%	25	0	6	6	51	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U		
	Antimony	UG/L	5	22%	1000	0	11	11	51	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U		
	Arsenic	UG/L	173	100%	1000	0	51	51	51	69.2 J	75.9 J	93.2 J	93.2 J	39.6 J	66.9 J	41 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		
	Beryllium	UG/L	0.26	14%	10	0	7	7	51	0.1 U	0.12 J	0.2 U	0.2 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		
	Cadmium	UG/L	0.35	2%	1000	0	1	1	51	96800	74100	53700	114000	391000	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U		
	Calcium	UG/L	391000	100%	50	0	7	7	51	2.9 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
	Chromium	UG/L	4.1	14%	200	0	3	3	51	1.3 U	1.3 J	1.3 J	1.3 U	1.6 U	1.9 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U		
	Cobalt	UG/L	2	6%	100	0	17	17	51	1.7 J	1.6 J	1.6 U	1.6 U	3.1 J	3.1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
	Copper	UG/L	14.6	33%	300	0	0	0	51	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
	Cyanide	UG/L	0	0%	300	14	32	32	51	20.3 UJ	20.3 UJ	137 J	20.3 UJ	20.3 UJ	48.9 J	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ		
	Iron	UG/L	6350	63%	25	0	5	5	51	1.3 U	1.3 U	1.3 U	1.3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
	Lead	UG/L	3.8	10%	85900	0	51	51	51	11100	27100	28300	10800	85900	10900	10900	10900	10900	10900	10900	10900	10900		
	Magnesium	UG/L	344	100%	300	2	51	51	51	1.8 J	182	71	0.95 J	300	1.6 J	1.6 J	1.6 J	1.6 J	1.6 J	1.6 J	1.6 J	1.6 J		
	Manganese	UG/L	0.14	2%	2	0	1	1	51	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		
	Mercury	UG/L	6.2	10%	10	0	5	5	51	1.7 U	2.1 J	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U		
	Nickel	UG/L	26600	100%	0	0	1	1	51	1340 J	3230 J	1960 J	420 J	25600	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U		
	Potassium	UG/L	3	2%	50	0	1	1	51	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U		
	Selenium	UG/L	2.8	2%	20000	23	46	46	51	13900	50400	15900	9960	1.3 UJ	7060	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U		
	Silver	UG/L	175000	90%	0	3	3	3	51	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U		
	Sodium	UG/L	7.4	6%	0	4	4	4	51	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U		
	Thallium	UG/L	10.8	8%	300	1	51	51	51	9.1 J	9.4 J	3.2 J	4.1 J	2.4 J	2.4 J	2.4 J	2.4 J	2.4 J	2.4 J	2.4 J	2.4 J	2.4 J		
	Vanadium	UG/L	1620	100%	1	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51		
	Zinc	UG/L	1620	100%	1	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51		



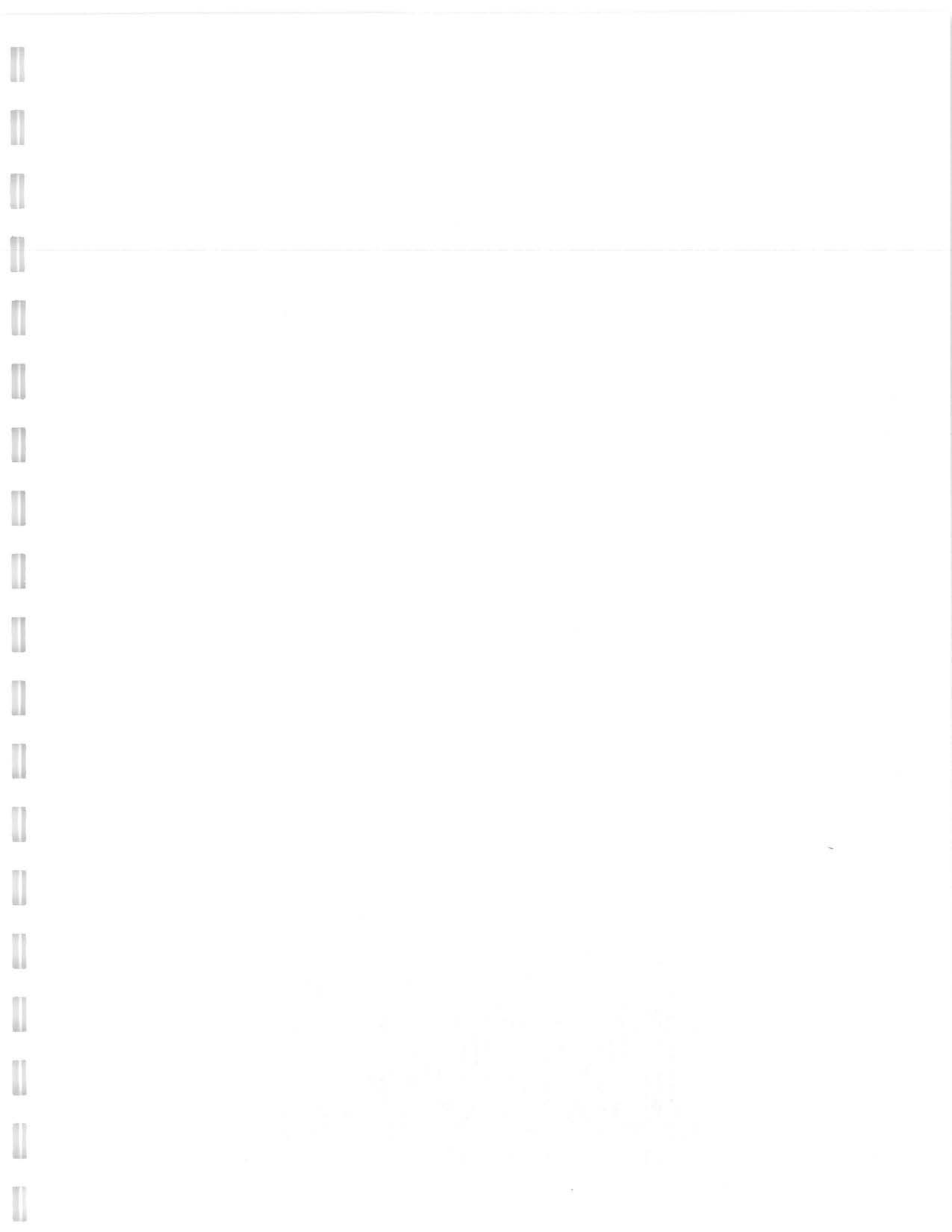
**APPENDIX C2  
GROUND WATER CHEMICAL RESULTS - 1Q 2000  
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY ROMULES, NY**

SAMPLE ROUND PARAMETER	UNIT	MAXIMUM DETECTION	OF CLASS	NVSDEC GA	STID	NUMBER ABOVE	OF STID	NUMBER OF DETECTS	ANALYSES	N	FACILITY											
											LOCATION ID		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL	
											MATRIX	SAMPLE ID	MW-48	GROUND WATER	MW-48	GROUND WATER	MW-49D	GROUND WATER	MW-50D	GROUND WATER	MW-51D	GROUND WATER
1,1-1-Trichloroethane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,1-2,2-tetrachloroethane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,1-2-Trichloroethane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,1-Dichloroethane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,1-Dichloroethane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,2-4-Trichlorobenzene	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,2-Dibromo-3-chloropropane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,2-Dichlorobenzene	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,2-Dichlorobenzene	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,2-Dichloroethane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,2-Dichloroethane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,3-Dichloropropane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,3-Dichlorobenzene	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
1,4-Dichlorobenzene	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Acetone	UG/L	1	4%	7	0	2	2	0	54	17	U	5	U	5	U	5	U	5	U	5	U	
Benzene	UG/L	0	0%	0.7	0	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Bromochloromethane	UG/L	0	0%	0	0	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Bromodichloromethane	UG/L	0	0%	0	0	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Bromoform	UG/L	0	0%	0	0	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Carbon disulfide	UG/L	0	0%	0	0	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Carbon tetrachloride	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Chlorobenzene	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Chlorobromomethane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Chloroethane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Chloroform	UG/L	0	0%	7	0	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Cis-1,2-Dichloroethane	UG/L	980	28%	5	5	14	15	0	54	43	19	1	U	1	U	1	U	1	U	1	U	
Cis-1,3-Dichloropropene	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Ethyl benzene	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Methyl bromide	UG/L	0	0%	0	0	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Methyl butyl ketone	UG/L	0	0%	0	0	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Methyl chloride	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Methyl ethyl ketone	UG/L	0	0%	50	50	0	0	0	54	17	U	5	U	5	U	5	U	5	U	5	U	
Methyl isobutyl ketone	UG/L	0	0%	0	0	0	0	0	54	17	U	5	U	5	U	5	U	5	U	5	U	
Methylene chloride	UG/L	0	0%	5	5	0	0	0	54	7	U	2	U	2	U	2	U	2	U	2	U	
Styrene	UG/L	0	0%	0	0	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Tetrahydroethane	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Toluene	UG/L	2	6%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Total Xylenes	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Trans-1,2-Dichloroethane	UG/L	2	4%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Trans-1,3-Dichloropropene	UG/L	0	0%	5	5	0	0	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
Trichloroethane	UG/L	760	28%	5	5	8	15	0	54	23	4	1	U	1	U	1	U	1	U	1	U	
Vinyl chloride	UG/L	25	2%	2	2	1	1	0	54	3	U	1	U	1	U	1	U	1	U	1	U	
<b>METALS</b>																						
Aluminum	UG/L	7700	49%	0	25	51	15.5	UJ	15.5	UJ	32.6	J	158	J	34.4	UJ	3220	J				



APPENDIX C2  
GROUNDWATER CHEMICAL RESULTS - 1Q 2000  
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN  
SENeca ARMY DEPOT ACTIVITY ROMULIUS, NY

STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	OF	CLASS	GA	STD	NUMBER	DETECTS	OF	ANALYSES	N	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL	
														MMW-46	MMW-48	MMW-49D	MMW-50D	MMW-51D	MMW-52D						
	Antimony	UG/L	4.5	12%	0	12%	25	0	6	51	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
	Arsenic	UG/L	5	22%	0	22%	25	0	11	51	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
	Barium	UG/L	173	100%	0	100%	1000	0	51	51	56 J	36.6 J	133 J	119 J	90.2 J	90.2 J	90.2 J	90.2 J	90.2 J	90.2 J	90.2 J	90.2 J	90.2 J	90.2 J	90.2 J
	Beryllium	UG/L	0.26	14%	0	14%	10	0	7	51	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
	Cadmium	UG/L	0.35	2%	0	2%	10	0	1	51	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
	Calcium	UG/L	391000	100%	0	100%	50	0	51	51	126000	90100	93100	54100	86700	86700	86700	86700	86700	86700	86700	86700	86700	86700	86700
	Chromium	UG/L	4.1	14%	0	14%	50	0	7	51	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	Cobalt	UG/L	2	6%	0	6%	200	0	3	51	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
	Copper	UG/L	14.6	33%	0	33%	100	0	17	51	2.2 J	1.6 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
	Cyanide	UG/L	0	0%	0	0%	100	0	0	51	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	Iron	UG/L	6350	63%	14	63%	300	14	32	51	17.9 J	81.1 J	418 J	150 J	43.5 J	1980 J	1980 J	1980 J	1980 J	1980 J	1980 J	1980 J	1980 J	1980 J	1980 J
	Lead	UG/L	3.8	10%	0	10%	25	0	5	51	1.3 U	1 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
	Magnesium	UG/L	85900	100%	0	100%	300	0	51	51	15000	11200	24400	25100	13900	2150 J	2150 J	2150 J	2150 J	2150 J	2150 J	2150 J	2150 J	2150 J	2150 J
	Manganese	UG/L	344	100%	2	100%	2	2	51	51	38.1	6.6 J	99.4	79.2	17.4	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
	Mercury	UG/L	0.14	2%	0	2%	2	0	1	51	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
	Nickel	UG/L	6.2	10%	0	10%	2	0	5	51	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Potassium	UG/L	29500	100%	0	100%	10	0	51	51	730 J	1250 J	1850 J	2350 J	1100 J	1280 J	1280 J	1280 J	1280 J	1280 J	1280 J	1280 J	1280 J	1280 J	1280 J
	Selenium	UG/L	3	2%	0	2%	10	0	1	51	2.5 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
	Silver	UG/L	2.8	2%	0	2%	50	0	1	51	1 U	1 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
	Sodium	UG/L	175000	90%	23	90%	20000	23	46	51	10500	6690	8970	19800	27100	161000 J	161000 J	161000 J	161000 J	161000 J	161000 J	161000 J	161000 J	161000 J	161000 J
	Thallium	UG/L	7.4	6%	0	6%	3	0	3	51	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
	Vanadium	UG/L	10.8	8%	0	8%	300	0	4	51	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
	Zinc	UG/L	1620	100%	1	100%	300	1	51	51	3.8 J	4 J	4.5 J	10 J	3.2 J	7.5 J	7.5 J	7.5 J	7.5 J	7.5 J	7.5 J	7.5 J	7.5 J	7.5 J	7.5 J

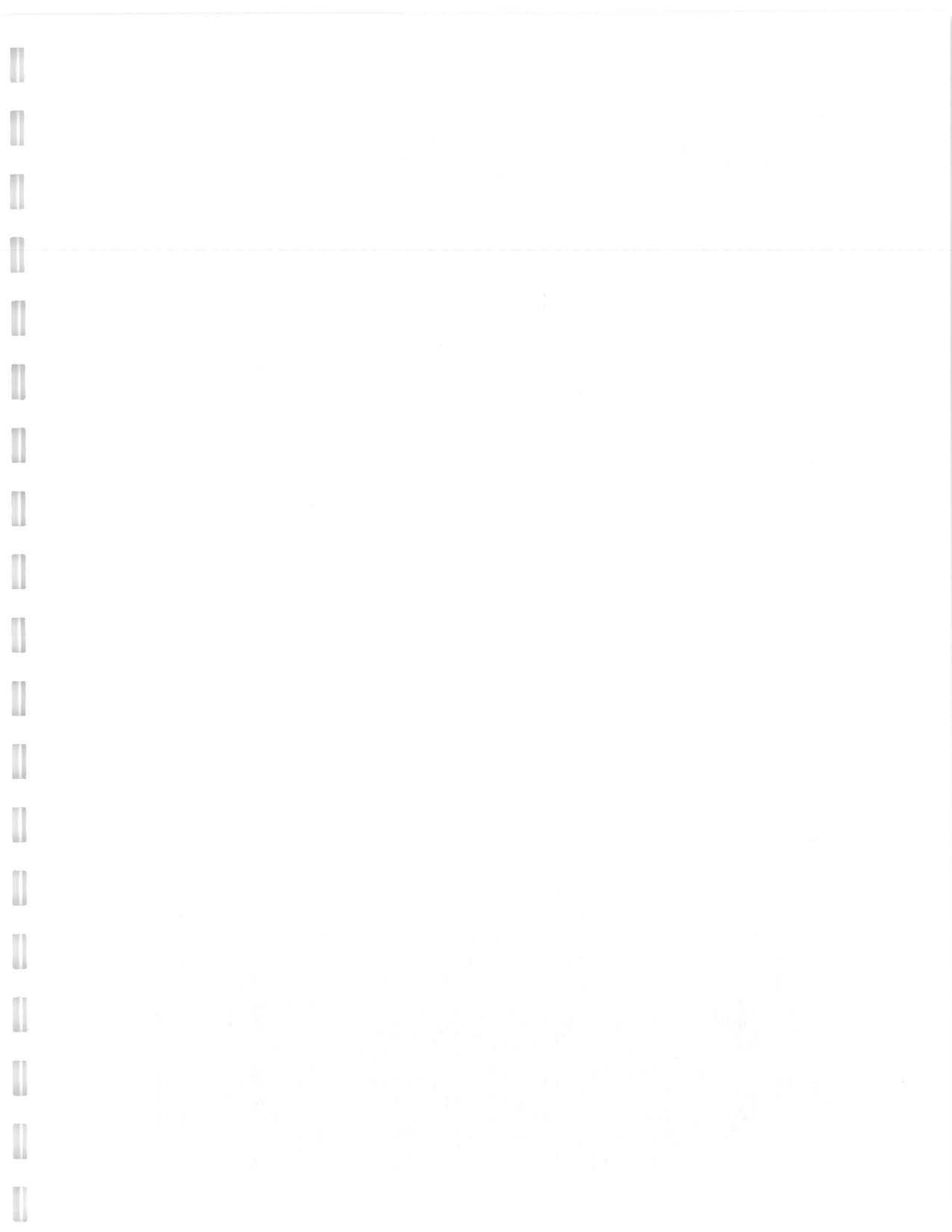


APPENDIX C2  
GROUNDWATER CHEMICAL RESULTS - 1Q 2000  
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY ROMULETS, NY

STUDY ID	SAMPLE ROUND	PARAMETER	VOLUME ORGANICS	UNIT	MAXIMUM OF DETECTION	CLASSIFICATION	STANDARD	NUMBER ABOVE	OF DETECTS	ANALYSES	FACILITY LOCATION ID		ASH LANDFILL	GROUNDWATER	ASH LANDFILL	GROUNDWATER	ASH LANDFILL	GROUNDWATER	ASH LANDFILL	GROUNDWATER	ASH LANDFILL	GROUNDWATER	
											MMW-53	MMW-54											
											MMW-53	MMW-54	MMW-55D	MMW-57D	MMW-53	MMW-54	MMW-55D	MMW-57D	MMW-53	MMW-54	MMW-55D	MMW-57D	
											ARD2147	ARD2145	ARD2137	ARD2136	ARD2130	ARD2131	ARD2130	ARD2130	ARD2130	ARD2130	ARD2130	ARD2130	
											9	9	25	50	6	25	50	50	25	25	25	25	
											1/20/2000	1/20/2000	1/18/2000	1/18/2000	1/11/2000	1/11/2000	1/11/2000	1/11/2000	1/11/2000	1/11/2000	1/11/2000		
											DU	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA		
											2	2	2	2	2	2	2	2	2	2	2		
1,1,1-Trichloroethane	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-chloropropane	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	UGL	0	0%	4.7	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	UGL	3	2%	5	0	1	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,2-Dichloroethane	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	UGL	0	0%	4.7	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Acetone	UGL	1	4%	0	0	2	54	5	R	5	R	5	R	0.9	J	5	U	5	U	5	U	5	U
Benzene	UGL	0	0%	0.7	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromochloromethane	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromodibromomethane	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Bromodiform	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Carbon tetrachloride	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chloroethane	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Chloroform	UGL	0	0%	7	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethane	UGL	980	28%	5	14	15	54	22		23		1											
Cis-1,3-Dichloropropene	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Ethyl benzene	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl bromide	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl butyl ketone	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl chloride	UGL	0	0%	50	0	0	54	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methyl ethyl ketone	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methyl isobutyl ketone	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Methylene chloride	UGL	0	0%	5	0	0	54	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Styrene	UGL	0	0%	0	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethane	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Toluene	UGL	2	6%	5	0	3	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Total Xylenes	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,2-Dichloroethane	UGL	2	4%	5	0	2	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	UGL	0	0%	5	0	0	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Trichloroethane	UGL	760	28%	5	8	15	54	2		2													
Vinyl chloride	UGL	25	2%	2	1	1	54	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U

**METALS**

PARAMETER	UNIT	MAXIMUM	DETECTION	STANDARD	NUMBER ABOVE	OF DETECTS	ANALYSES	N	N	N	N	N	N					
Aluminum	UGL	7700	49%	0	25	51	34.4	UJ	34.4	UJ	35.6	J	1410	J	7700	J	736	J

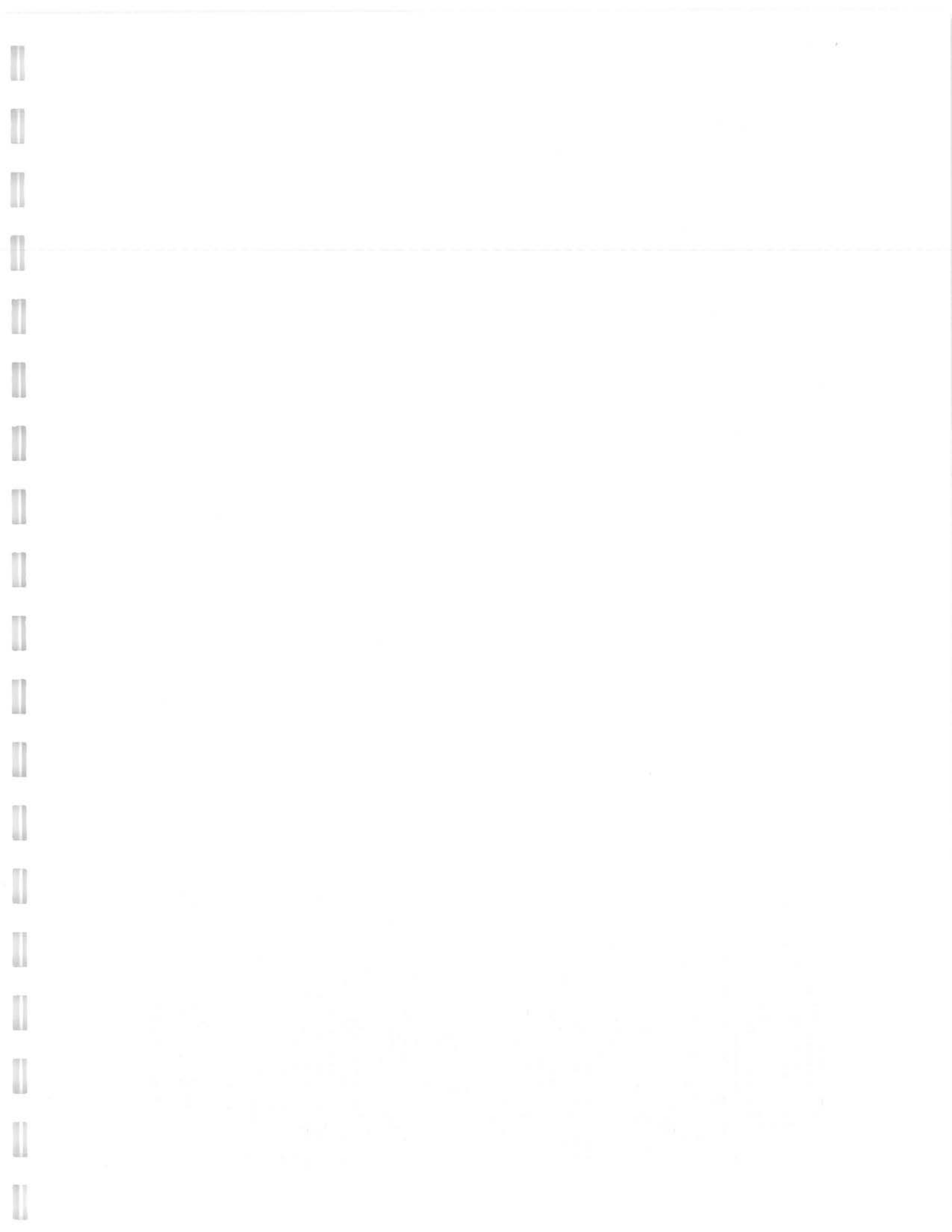






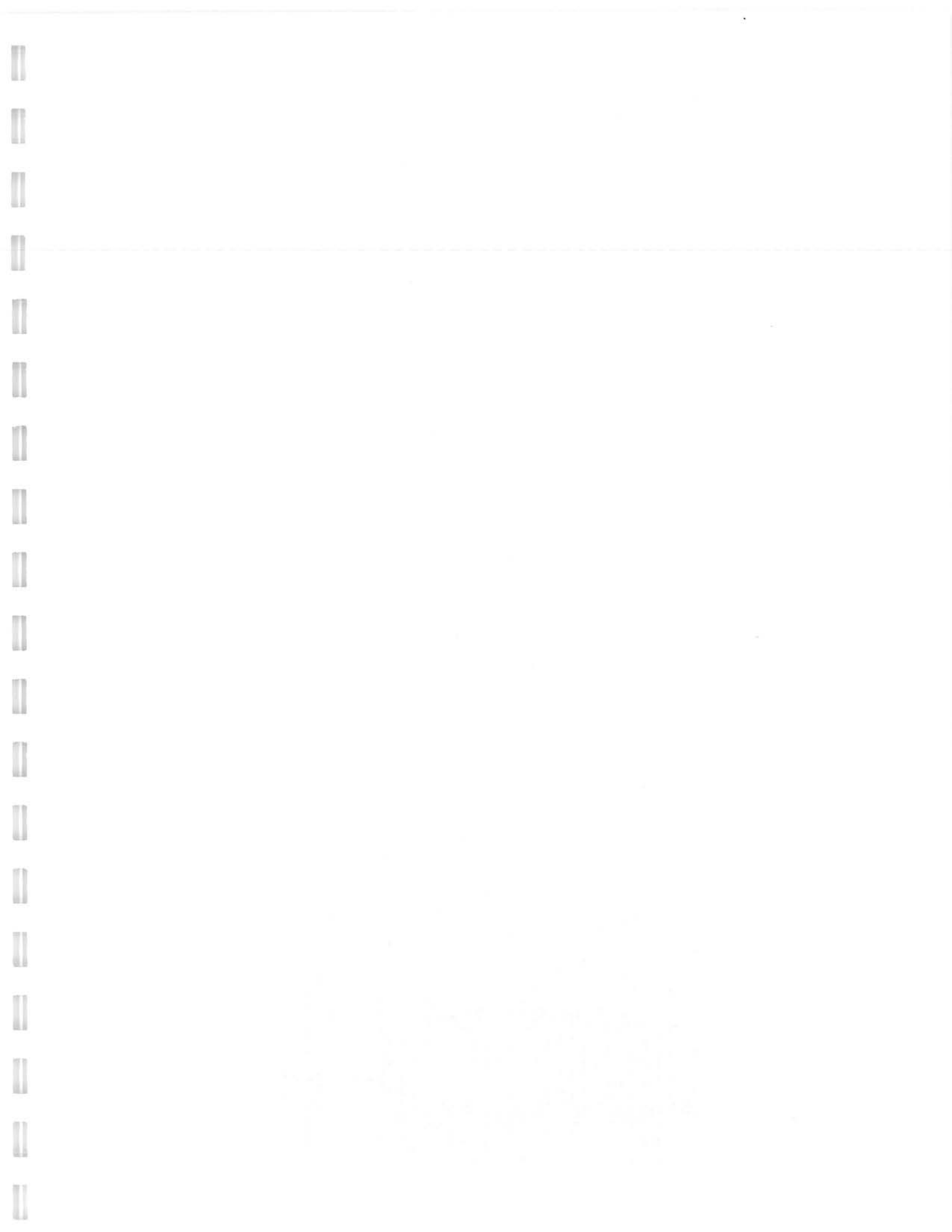




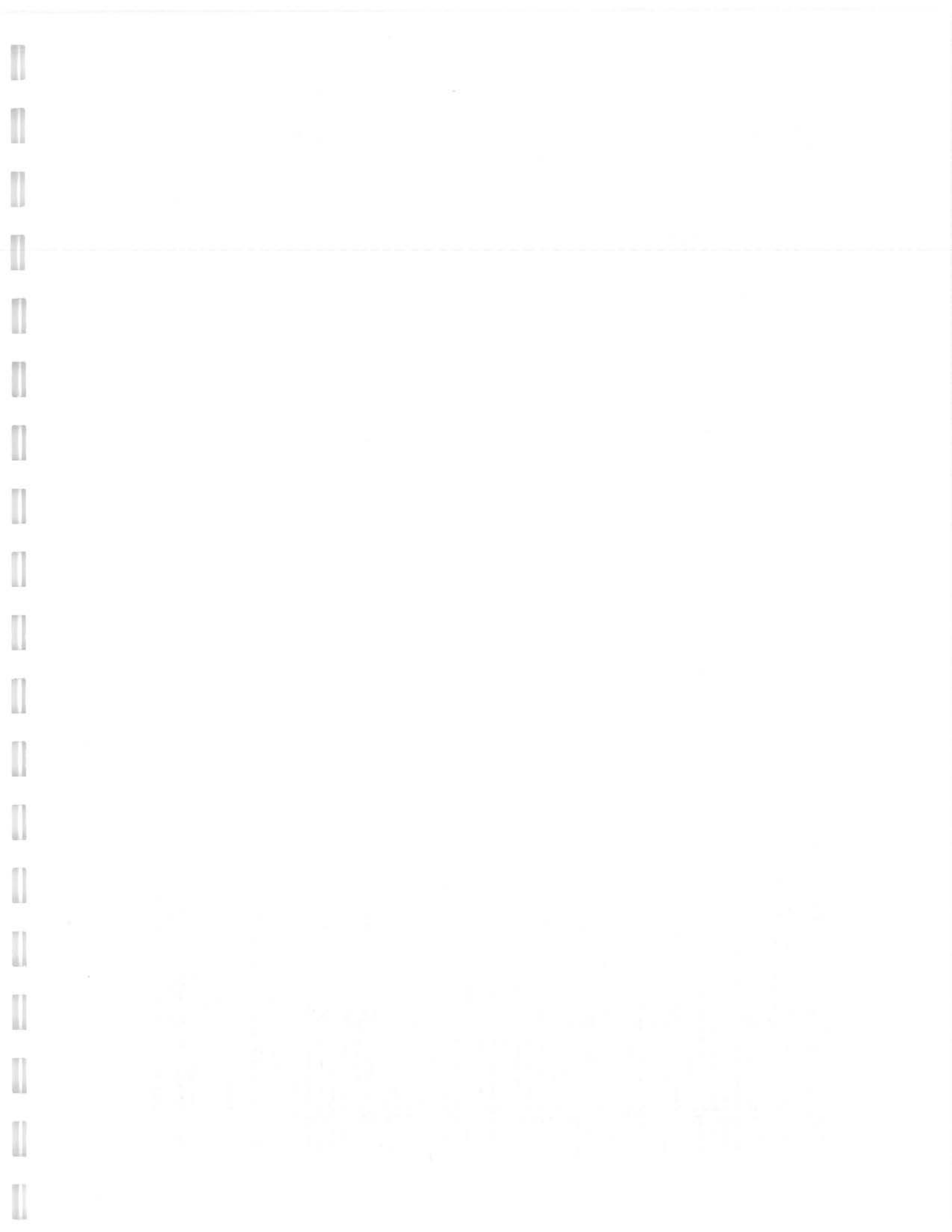


APPENDIX C2  
GROUND WATER CHEMICAL RESULTS - 1Q 2000  
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN  
SENeca ARMY DEPOT ACTIVITY ROMULES, NY

STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	OF	CLASS	GA	STD	NUMBER	OF	DETECTS	NUMBER	OF	ANALYSES	N	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL			
																MMW-59D	MMW-59	MMW-60	PT-10	PT-11	PT-15	MMW-59D	MMW-59	MMW-60	PT-10	PT-11	PT-15	MMW-59D	MMW-59
																GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	
																ARD2128	ARD2105	ARD2104	ARD2101	ARD2107	ARD2133	ARD2133	ARD2133	ARD2133	ARD2133	ARD2133	ARD2133	ARD2133	
																48	7	8	40	40	18	18	18	18	18	18	18	18	
																1/1/2000	1/7/2000	1/7/2000	1/6/2000	1/7/2000	1/7/2000	1/7/2000	1/7/2000	1/7/2000	1/7/2000	1/7/2000	1/7/2000	1/1/2000	
																SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	SA	
																2	2	2	2	2	2	2	2	2	2	2	2	2	
																2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	
																2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	
																86.9 J	94.2 J	39.3 J	173 J	95.9 J	79.6 J	95.9 J	79.6 J	95.9 J	79.6 J	95.9 J	79.6 J	95.9 J	
																0.26 J	0.1 U	0.1 U	0.1 U	0.1 U	0.13 J	0.13 J	0.13 J	0.13 J	0.13 J	0.13 J	0.13 J	0.13 J	
																0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
																5450	177000	104000	82600	126000	75700	126000	75700	126000	75700	126000	75700	126000	
																1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
																1.4 J	1.3 U	1.3 U	1.3 U	1.3 U	4 J	4 J	4 J	4 J	4 J	4 J	4 J	4 J	
																1.9 U	1.7 J	1.6 U	1.6 U	1.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	
																10 U	10 U	10 U	10 U	10 U	5.3 J	5.3 J	5.3 J	5.3 J	5.3 J	5.3 J	5.3 J	5.3 J	
																68.2 J	88.2 J	20.3 U	20.3 U	20.3 U	20.3 U	20.3 U	20.3 U	20.3 U	20.3 U	20.3 U	20.3 U	20.3 U	20.3 U
																5010 J	5010 J	20.3 U	20.3 U	20.3 U	2020 J	2020 J	2020 J	2020 J	2020 J	2020 J	2020 J	2020 J	
																1.9 J	1 U	1.3 U	1 U	1 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
																1770 J	40500	15300	30700	34300	18000	34300	18000	34300	18000	34300	18000	34300	18000
																96.6	7.7 J	3.1 J	101	99.8	9.8 J	99.8	9.8 J	99.8	9.8 J	99.8	9.8 J	99.8	9.8 J
																0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
																5.2 J	1.7 U	1.7 U	1.7 U	1.7 U	4.6 J	4.6 J	4.6 J	4.6 J	4.6 J	4.6 J	4.6 J	4.6 J	4.6 J
																1900 J	1470 J	850 J	2160 J	2520 J	1940 J	2520 J	1940 J	2520 J	1940 J	2520 J	1940 J	2520 J	1940 J
																2.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
																1.3 U	1 U	1 U	1 U	1 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
																175000	29700	16400	27700	32200	19800	32200	19800	32200	19800	32200	19800	32200	19800
																3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U
																5.5 J	1.8 U	1.8 U	1.8 U	1.8 U	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J
																15.1 J	6.1 J	5.1 J	3.5 J	13.8 J	6.1 J	13.8 J	6.1 J	13.8 J	6.1 J	13.8 J	6.1 J	13.8 J	6.1 J



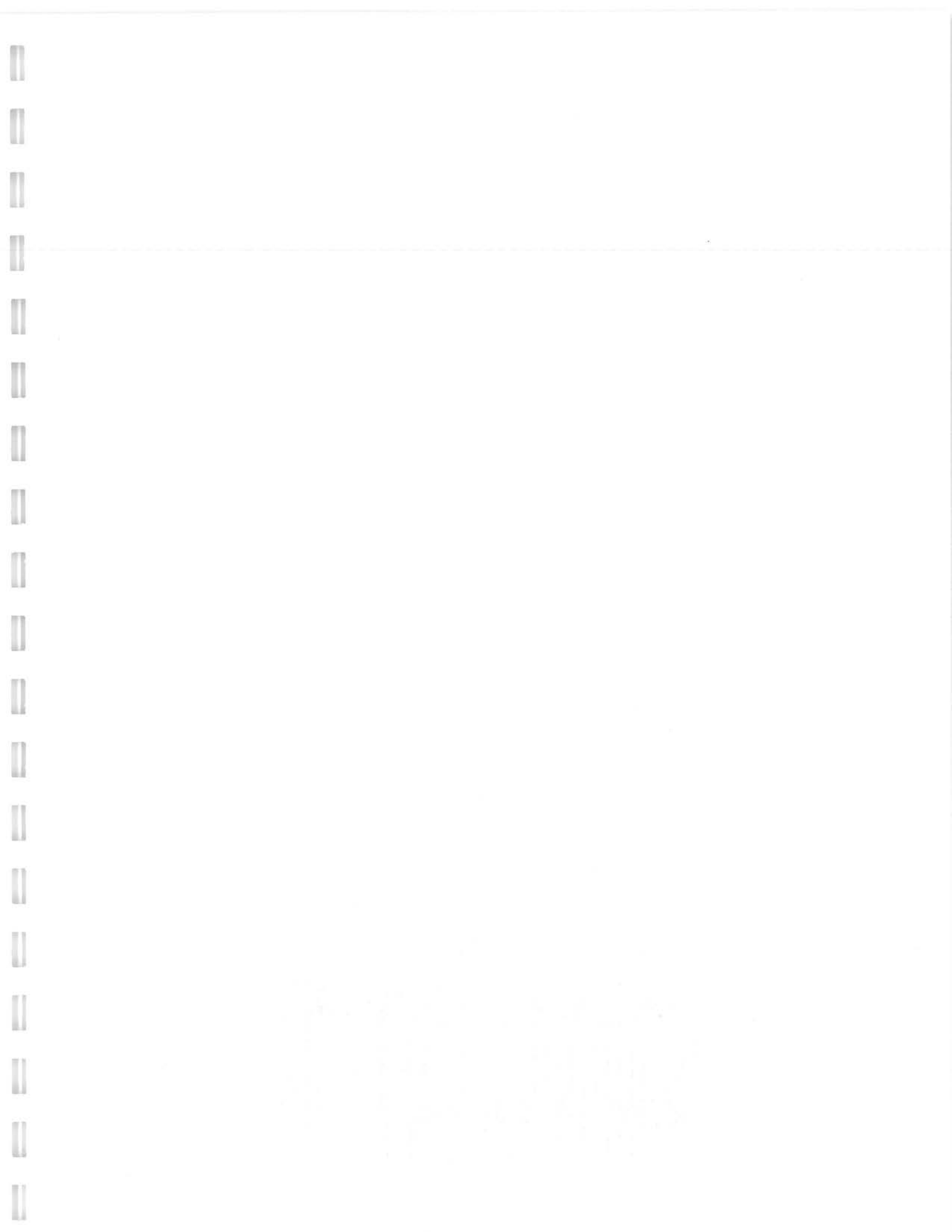




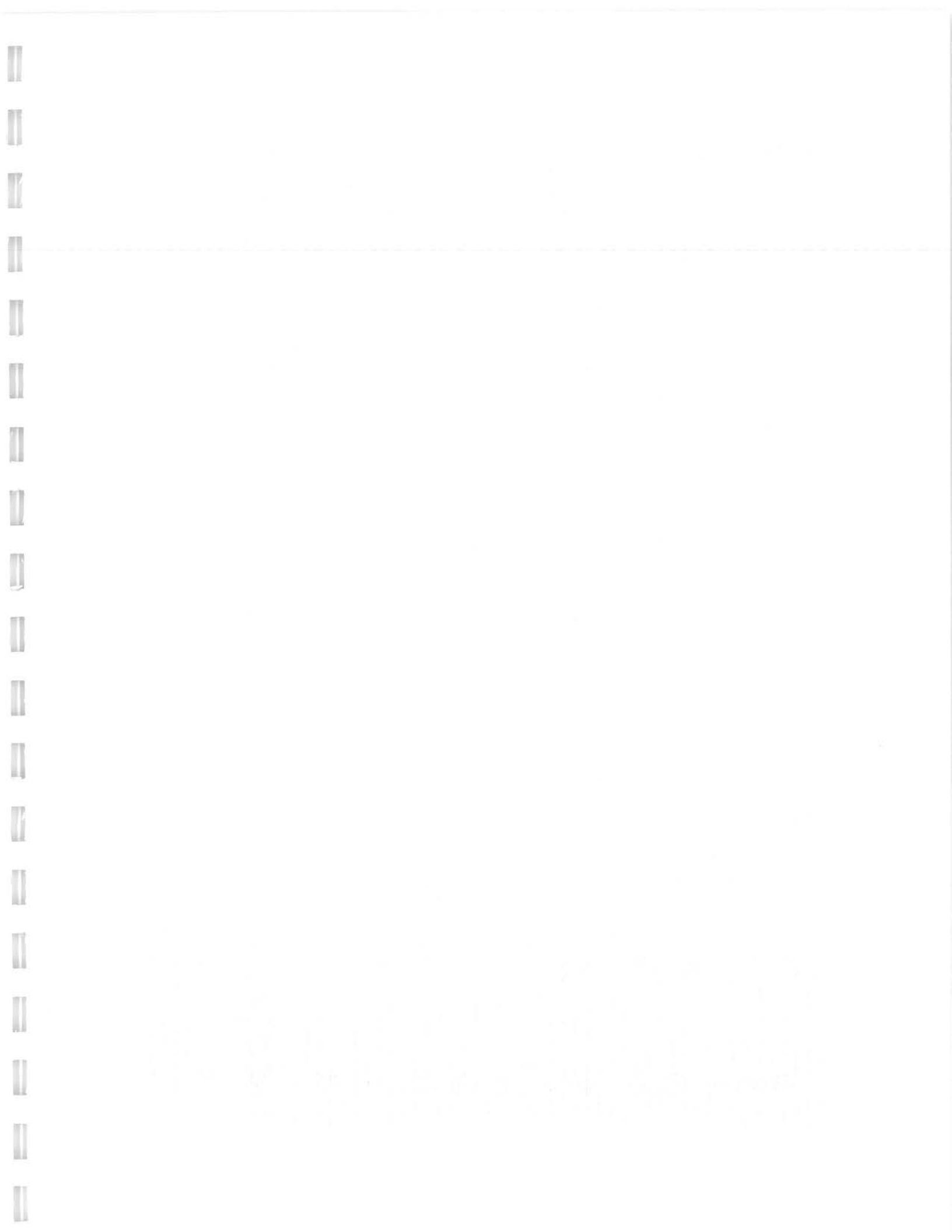


APPENDIX C2  
GROUNDWATER CHEMICAL RESULTS - IQ 2000  
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY ROMEULETS, NY

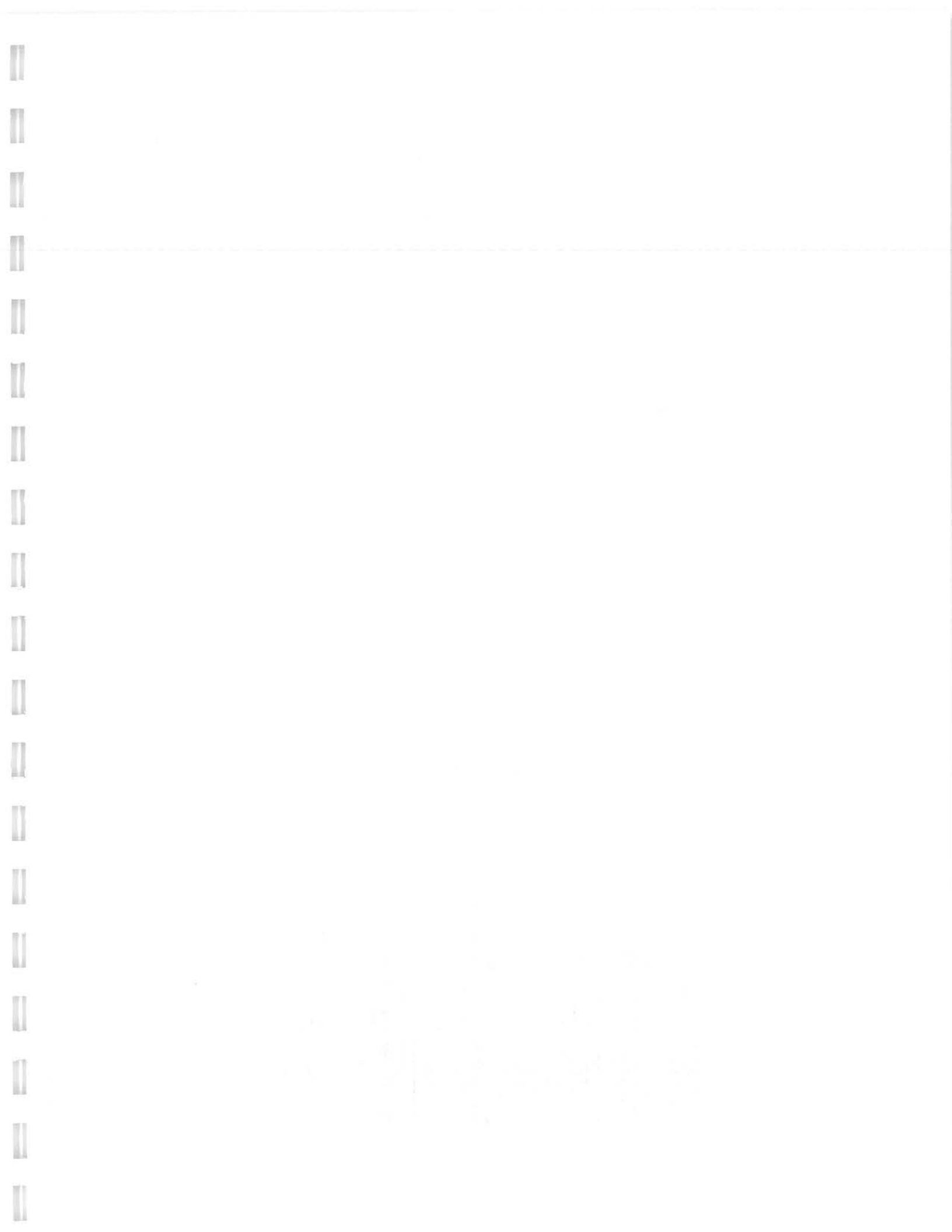
STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	OF	CLASS	GA	STD	NUMBER	ABOVE	OF	DETECT'S	ANALYSES	N	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL	
															PT-16	GROUND WATER	PT-16	GROUND WATER	PT-17	GROUND WATER	PT-18	GROUND WATER	PT-19	GROUND WATER	PT-20	GROUND WATER
	Antimony	UG/L	4.5	12%	25	0	0	6	51	2.2 U	2.5 J	2.7 J	2.4 U	2.2 U	5.4 U	2.4 U	2.2 U	2.4 U	2.2 U	2.4 U	2.2 U	2.4 U	2.2 U	2.4 U	2.2 U	2.4 U
	Arsenic	UG/L	5	22%	173	0	0	11	51	2.5 U	3.9 J	3.9 J	4.78 J	4.8 J	4.78 J	4.8 J	4.8 J	4.8 J	4.8 J	4.8 J	4.8 J	4.8 J	4.8 J	4.8 J	4.8 J	4.8 J
	Barium	UG/L	0.26	14%	10	0	0	7	51	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.35 J	0.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
	Beryllium	UG/L	0.35	2%	391000	0	0	51	51	99100	99400	123000	289000	110000	154000	110000	154000	110000	154000	110000	154000	110000	154000	110000	154000	110000
	Calcium	UG/L	4.1	14%	50	0	0	7	51	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	Chromium	UG/L	2	6%	200	0	0	3	51	2.6 J	1.9 U	2.6 J	1.6 J	1.6 U	1.6 J	1.6 J	1.6 U	1.6 J	1.6 J	1.6 U	1.6 J	1.6 J	1.6 U	1.6 J	1.6 J	1.6 U
	Cobalt	UG/L	14.6	33%	100	0	0	17	51	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	Copper	UG/L	0	0%	300	0	0	32	51	82.6 J	20.3 UJ	20.3 UJ	14.8 UJ	812 J	14.8 UJ	812 J	14.8 UJ	812 J	14.8 UJ	812 J	14.8 UJ	812 J	14.8 UJ	812 J	14.8 UJ	812 J
	Cyanide	UG/L	3.8	10%	25	0	0	5	51	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
	Iron	UG/L	85900	100%	300	0	0	51	51	12400	12400	12100	44500	15300	19500	15300	19500	15300	19500	15300	19500	15300	19500	15300	19500	15300
	Lead	UG/L	344	100%	2	0	0	51	51	15.7 J	7.1 J	2.2 J	0.14 J	316	9.7 J	0.14 J	0.14 J	0.14 J	0.14 J	0.14 J	0.14 J	0.14 J	0.14 J	0.14 J	0.14 J	0.14 J
	Magnesium	UG/L	0.14	2%	2	0	0	51	51	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.14 J	4.2 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
	Manganese	UG/L	6.2	10%	10	0	0	51	51	712 J	822 J	690 J	4740 J	1900 J	4740 J	1900 J	4740 J	1900 J	4740 J	1900 J	4740 J	1900 J	4740 J	1900 J	4740 J	1900 J
	Nickel	UG/L	25600	100%	3	0	0	1	51	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
	Potassium	UG/L	3	2%	50	0	0	1	51	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ
	Selenium	UG/L	2.8	2%	20000	0	0	46	51	5800	6010	24100 U	39800 J	20700	26200 J	39800 J	20700	26200 J	39800 J	20700	26200 J	39800 J	20700	26200 J	39800 J	20700
	Sodium	UG/L	175000	90%	7.4	0	0	3	51	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ	3.2 UJ
	Silver	UG/L	10.8	8%	18 U	0	0	4	51	1.8 U	1.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	
	Thallium	UG/L	7.4	6%	300	1	1	51	51	3.1 J	4 J	4.1 J	1620	8 J	1620	8 J	1620	8 J	1620	8 J	1620	8 J	1620	8 J	1620	8 J
	Vanadium	UG/L	10.8	8%	18 U	0	0	4	51	1.8 U	1.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	1.8 U	2.8 U	
	Zinc	UG/L	1620	100%	300	1	1	51	51	3.1 J	4 J	4.1 J	1620	8 J	1620	8 J	1620	8 J	1620	8 J	1620	8 J	1620	8 J	1620	8 J







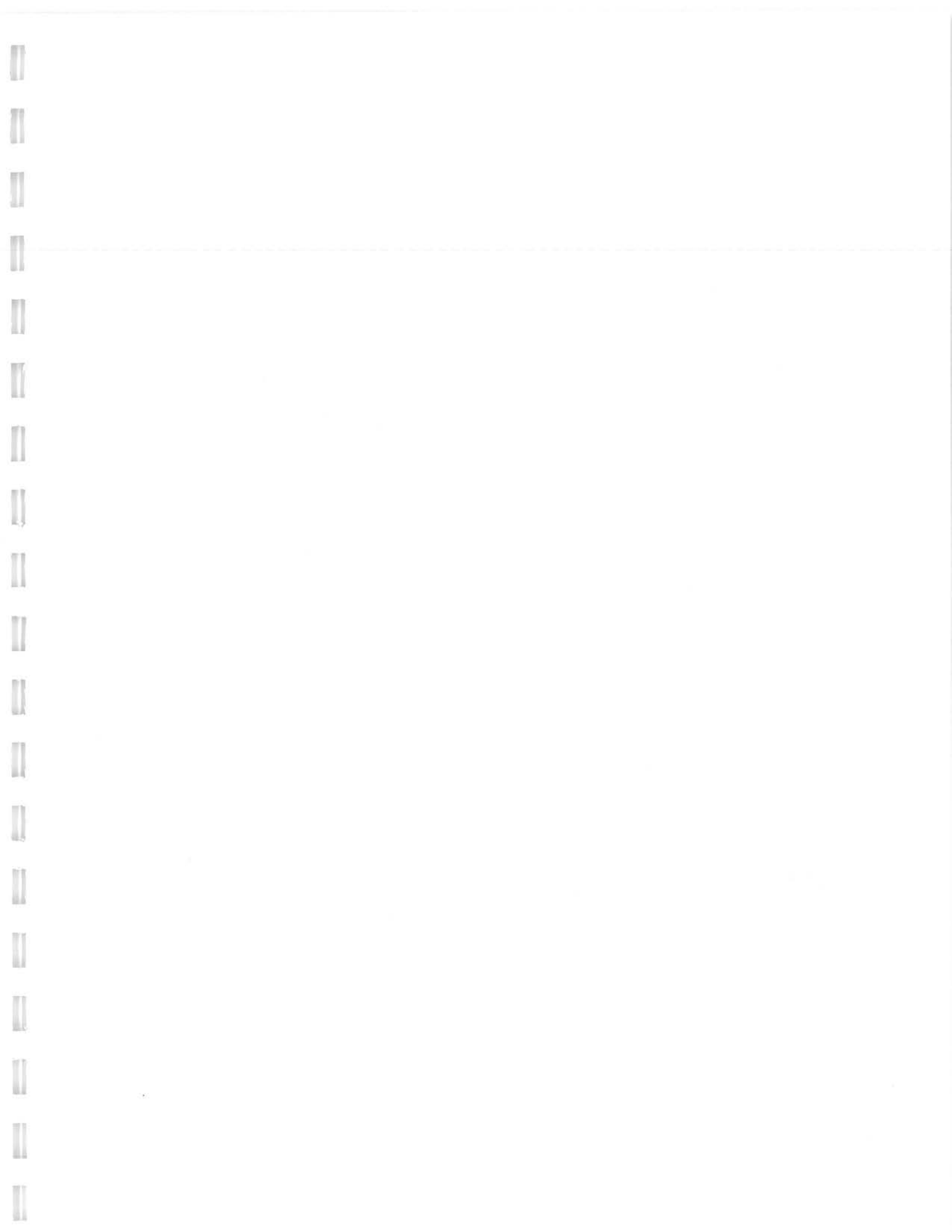




APPENDIX C2  
GROUND WATER CHEMICAL RESULTS - 1Q 2000  
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN  
SENeca ARMY DEPOT ACTIVITY ROMQUILS, NY

FACILITY ASHLANDFILL  
LOCATION ID PT-26  
MATRIX GROUND WATER  
SAMPLE ID ARD2138  
DEPTH TO TOP OF SAMPLE 13.5  
DEPTH TO BOTTOM OF SAMPLE 13.5  
SAMPLE DATE 1/29/2000

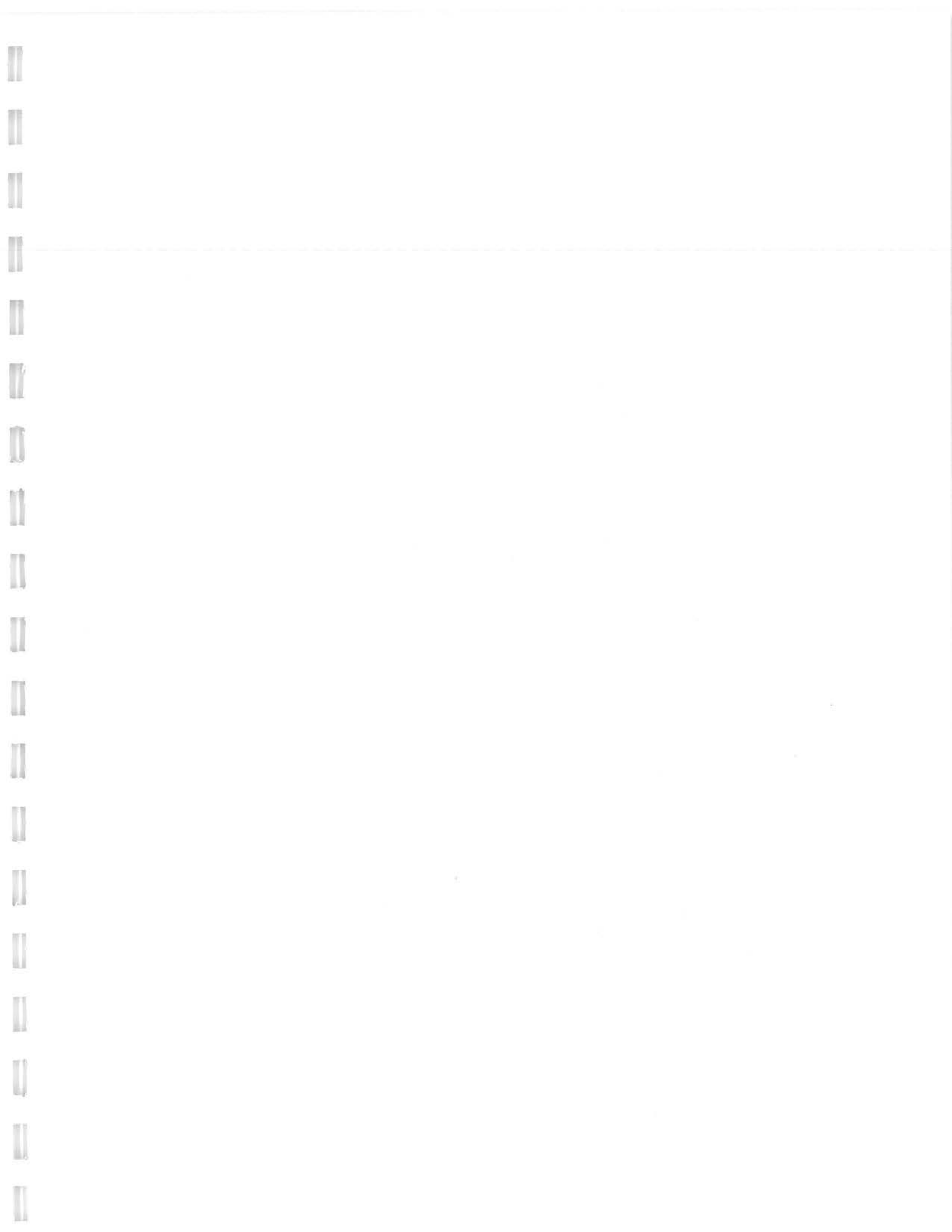
STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	FREQUENCY OF CLASS GA	NYSDEC STD	NUMBER ABOVE STD	NUMBER OF DETECTS	NUMBER OF ANALYSES	SA	ASH REMEDIAL DESIGN	
	<b>VOLATILE ORGANICS</b>											
	1,1,1-Trichloroethane	UG/L	0	0%	5	0	0	0	54	1	U	
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	0	54	1	U	
	1,1,2-Trichloroethane	UG/L	0	0%	5	0	0	0	54	1	U	
	1,1-Dichloroethane	UG/L	0	0%	5	0	0	0	54	1	U	
	1,1-Dichloroethane	UG/L	0	0%	5	0	0	0	54	1	U	
	1,2,4-Trichlorobenzene	UG/L	0	0%	5	0	0	0	54	1	U	
	1,2-Dibromo-3-chloropropane	UG/L	0	0%	0	0	0	0	54	1	U	
	1,2-Dibromoethane	UG/L	0	0%	4.7	0	0	0	54	1	U	
	1,2-Dichlorobenzene	UG/L	0	0%	4.7	0	0	0	54	1	U	
	1,2-Dichloroethane	UG/L	3	2%	5	0	1	0	54	1	U	
	1,2-Dichloropropane	UG/L	0	0%	5	0	0	0	54	1	U	
	1,3-Dichlorobenzene	UG/L	0	0%	5	0	0	0	54	1	U	
	1,4-Dichlorobenzene	UG/L	0	0%	4.7	0	0	0	54	1	U	
	Acetone	UG/L	1	4%	0	0	2	0	54	5	U	
	Benzene	UG/L	0	0%	0.7	0	0	0	54	1	U	
	Bromochloromethane	UG/L	0	0%	0	0	0	0	54	1	U	
	Bromodichloromethane	UG/L	0	0%	0	0	0	0	54	1	U	
	Bromoform	UG/L	0	0%	0	0	0	0	54	1	U	
	Carbon disulfide	UG/L	0	0%	0	0	0	0	54	1	U	
	Carbon tetrachloride	UG/L	0	0%	5	0	0	0	54	1	U	
	Chlorobenzene	UG/L	0	0%	5	0	0	0	54	1	U	
	Chlorobromomethane	UG/L	0	0%	5	0	0	0	54	1	U	
	Chloroethane	UG/L	0	0%	5	0	0	0	54	1	U	
	Chloroform	UG/L	0	0%	7	0	0	0	54	1	U	
	Cis-1,2-Dichloroethane	UG/L	980	28%	5	14	15	0	54	1	U	
	Cis-1,3-Dichloropropane	UG/L	0	0%	5	0	0	0	54	1	U	
	Ethyl benzene	UG/L	0	0%	5	0	0	0	54	1	U	
	Methyl bromide	UG/L	0	0%	0	0	0	0	54	1	U	
	Methyl butyl ketone	UG/L	0	0%	0	0	0	0	54	5	U	
	Methyl chloride	UG/L	0	0%	5	0	0	0	54	1	U	
	Methyl ethyl ketone	UG/L	0	0%	50	0	0	0	54	5	U	
	Methyl isobutyl ketone	UG/L	0	0%	0	0	0	0	54	5	U	
	Methylene chloride	UG/L	0	0%	5	0	0	0	54	2	U	
	Styrene	UG/L	0	0%	0	0	0	0	54	1	U	
	Tetrachloroethane	UG/L	0	0%	5	0	0	0	54	1	U	
	Toluene	UG/L	2	6%	5	0	3	0	54	1	U	
	Total Xylenes	UG/L	0	0%	5	0	0	0	54	1	U	
	Trans-1,2-Dichloroethane	UG/L	2	4%	5	0	2	0	54	1	U	
	Trans-1,3-Dichloropropane	UG/L	0	0%	5	0	0	0	54	1	U	
	Trichloroethene	UG/L	760	28%	5	8	15	0	54	1	U	
	Vinyl chloride	UG/L	25	2%	2	1	1	0	54	1	U	
	<b>METALS</b>											
	Aluminum	UG/L	7700	49%	0	25	0	0	51	303	J	



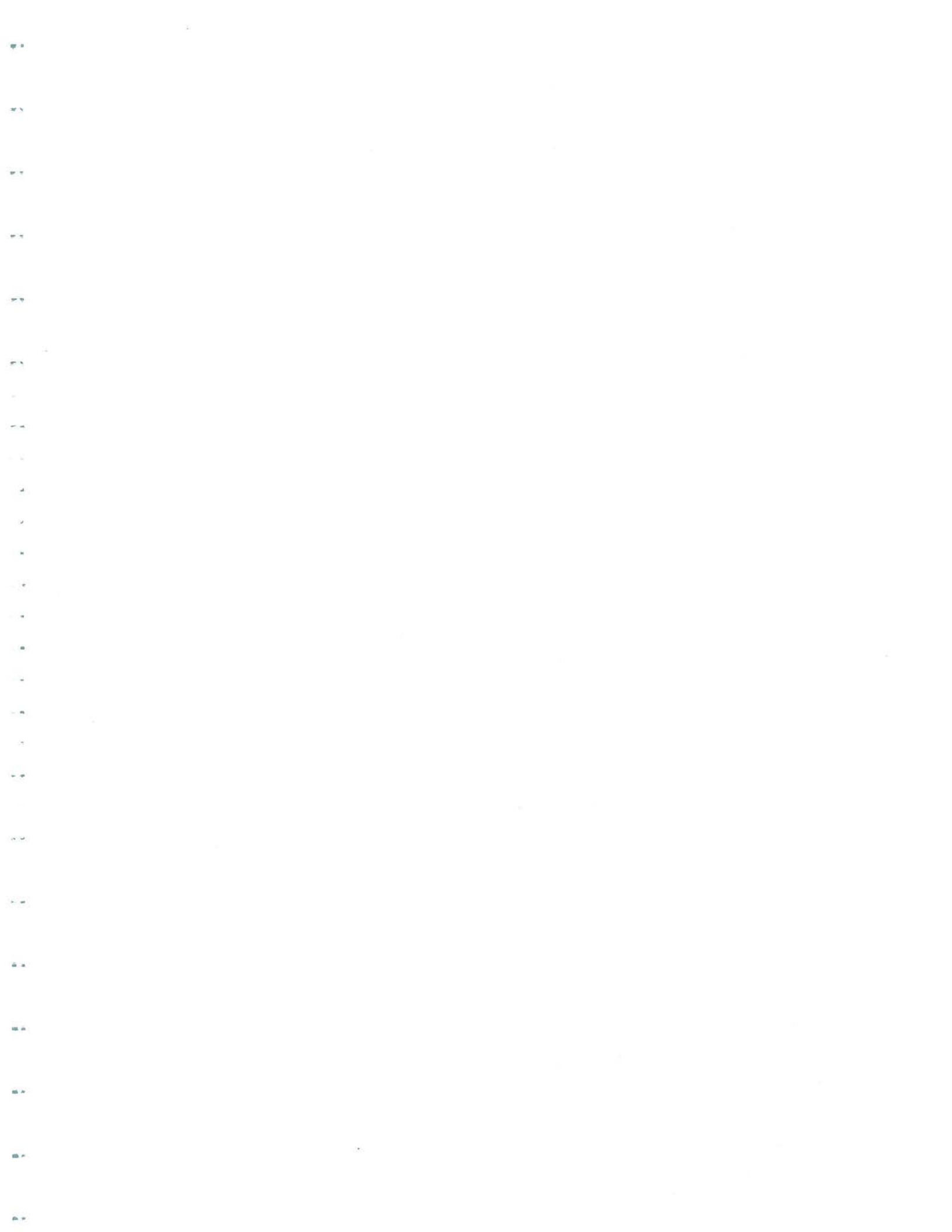


APPENDIX C2  
GROUND WATER CHEMICAL RESULTS - 1Q 2000  
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY ROMMILLS, NY

STUDY ID SAMPLE ROUND	PARAMETER	UNIT	MAXIMUM DETECTION	FREQUENCY OF	CLASS	NSDEC STD	GA	NUMBER ABOVE STD	DETECTS OF	NUMBER OF	ANALYSES N	SA	ASH REMEDIAL DESIGN	FACILITY			DEPTH TO TOP OF SAMPLE			DEPTH TO BOTTOM OF SAMPLE			
														LOCATION ID	MATRIX	SAMPLE ID	QC CODE	SA	ASH REMEDIAL DESIGN	PT-26	GROUND WATER	ARD2138	13.5
	Antimony	UG/L	4.5	12%		25		0	6	11	51		4.5 J										
	Arsenic	UG/L	5	22%		1000		0	51	51	51		5 J										
	Barium	UG/L	173	100%		1000		0	51	51	51		78.9 J										
	Beryllium	UG/L	0.26	14%		10		0	7	51	51		0.1 U										
	Cadmium	UG/L	0.35	2%		10		0	1	51	51		0.2 U										
	Calcium	UG/L	391000	100%		50		0	51	51	51		91400										
	Chromium	UG/L	4.1	14%		50		0	7	51	51		1 U										
	Cobalt	UG/L	2	6%		200		0	3	51	51		1.3 U										
	Copper	UG/L	14.6	33%		100		0	17	51	51		1.9 U										
	Cyanide	UG/L	0	0%		100		0	0	51	51		10 U										
	Iron	UG/L	6350	63%		300		14	32	51	51		251 J										
	Lead	UG/L	3.8	10%		25		0	5	51	51		1.3 U										
	Magnesium	UG/L	85900	100%		300		0	51	51	51		33100										
	Manganese	UG/L	344	100%		300		2	51	51	51		23.7										
	Mercury	UG/L	0.14	2%		2		0	1	51	51		0.1 U										
	Nickel	UG/L	6.2	10%		10		0	5	51	51		1.7 U										
	Potassium	UG/L	25600	100%		10		0	51	51	51		1850 J										
	Selenium	UG/L	3	2%		50		0	1	51	51		2.2 U										
	Silver	UG/L	2.8	2%		20000		23	46	51	51		1.3 UI										
	Sodium	UG/L	175000	90%		300		0	3	51	51		38400										
	Thallium	UG/L	7.4	6%		10		0	3	51	51		3.2 U										
	Vanadium	UG/L	10.8	8%		300		0	4	51	51		1.8 U										
	Zinc	UG/L	1620	100%		300		1	51	51	51		5.1 J										



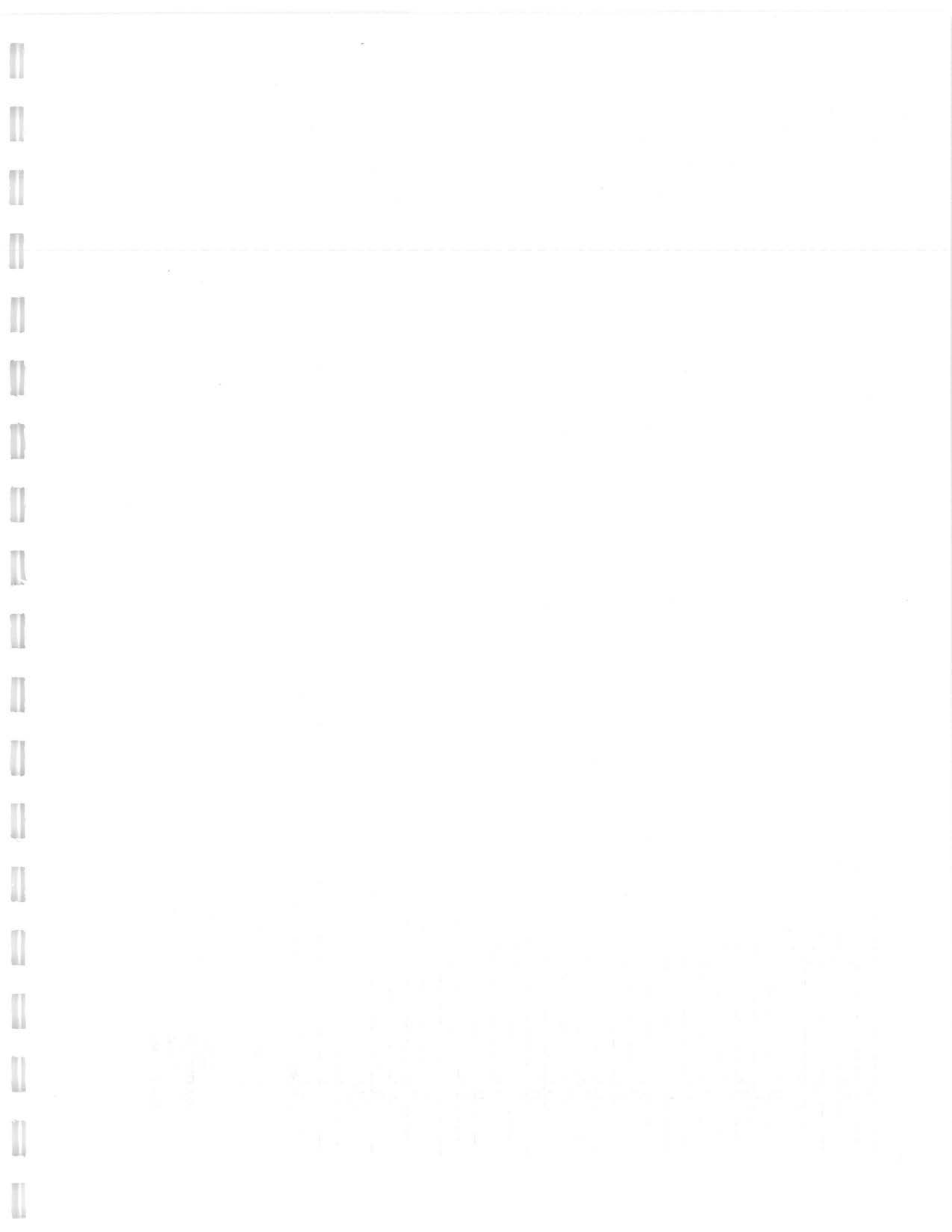




APPENDIX C3  
GROUNDWATER MONITORING - ASH LANDFILL  
CHEMICAL RESULTS TRENCH WELLS-2Q 1999  
SENECA ARMY DEPOT ACTIVITY

CHEMICAL	CONCENTRATION	FREQUENCY OF CLASS GA	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	ASH LANDFILL		
						SA	ASH TRENCH	ASH TRENCH
1,1,1-Trichloroethane	UG/L	0%	5	0	12	4 U	1 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	0%	5	0	12	4 U	1 U	1 U
1,1,2-Trichloroethane	UG/L	0%	0	0	12	4 U	1 U	1 U
1,1-Dichloroethane	UG/L	0%	5	0	12	4 U	1 U	1 U
1,1-Dichloroethane	UG/L	0%	5	0	12	4 U	1 U	1 U
1,2-Dibromo-3-chloropropane	UG/L	0%	0	0	12	4 U	1 U	1 U
1,2-Dibromoethane	UG/L	0%	0	0	12	4 U	1 U	1 U
1,2-Dichloroethane	UG/L	0%	5	0	12	4 U	1 U	1 U
1,2-Dichloropropane	UG/L	0%	5	0	12	4 U	1 U	1 U
Acetone	UG/L	42%	16	0	12	20 U	5 U	5 U
Benzene	UG/L	50%	0.9	0.7	12	4 U	0.7 J	1 U
Bromochloromethane	UG/L	0%	0	0	12	4 U	1 U	1 U
Bromodichloromethane	UG/L	0%	0	0	12	4 U	1 U	1 U
Bromoform	UG/L	0%	0	0	12	4 U	1 U	1 U
Carbon disulfide	UG/L	8%	1	0	12	4 U	1 U	1 U
Carbon tetrachloride	UG/L	0%	5	0	12	4 U	1 U	1 U
Chlorobenzene	UG/L	0%	5	0	12	4 U	1 U	1 U
Chlorodibromomethane	UG/L	0%	0	0	12	4 U	1 U	1 U
Chloroethane	UG/L	0%	5	0	12	4 U	1 U	1 U
Chloroform	UG/L	0%	7	0	12	4 U	1 U	1 U
Cis-1,2-Dichloroethane	UG/L	83%	73	7	12	73	6	1 U
Cis-1,3-Dichloropropene	UG/L	0%	5	0	12	4 U	1 U	1 U
Ethyl benzene	UG/L	0%	5	0	12	4 U	1 U	1 U
Methyl bromide	UG/L	0%	0	0	12	4 U	1 U	1 U
Methyl butyl ketone	UG/L	0%	0	0	12	20 U	5 U	5 U
Methyl chloride	UG/L	0%	5	0	12	4 U	1 U	1 U
Methyl ethyl ketone	UG/L	0%	50	0	12	20 U	5 U	5 U
Methyl isobutyl ketone	UG/L	0%	0	0	12	20 U	5 U	5 U
Methylene chloride	UG/L	0%	5	0	12	8 U	2 U	2 U
Styrene	UG/L	0%	0	0	12	4 U	1 U	1 U
Tetrachloroethene	UG/L	0%	5	0	12	4 U	1 U	1 U
Toluene	UG/L	17%	0.7	0	12	4 U	1 U	1 U
Total Xylenes	UG/L	0%	5	0	12	4 U	1 U	1 U

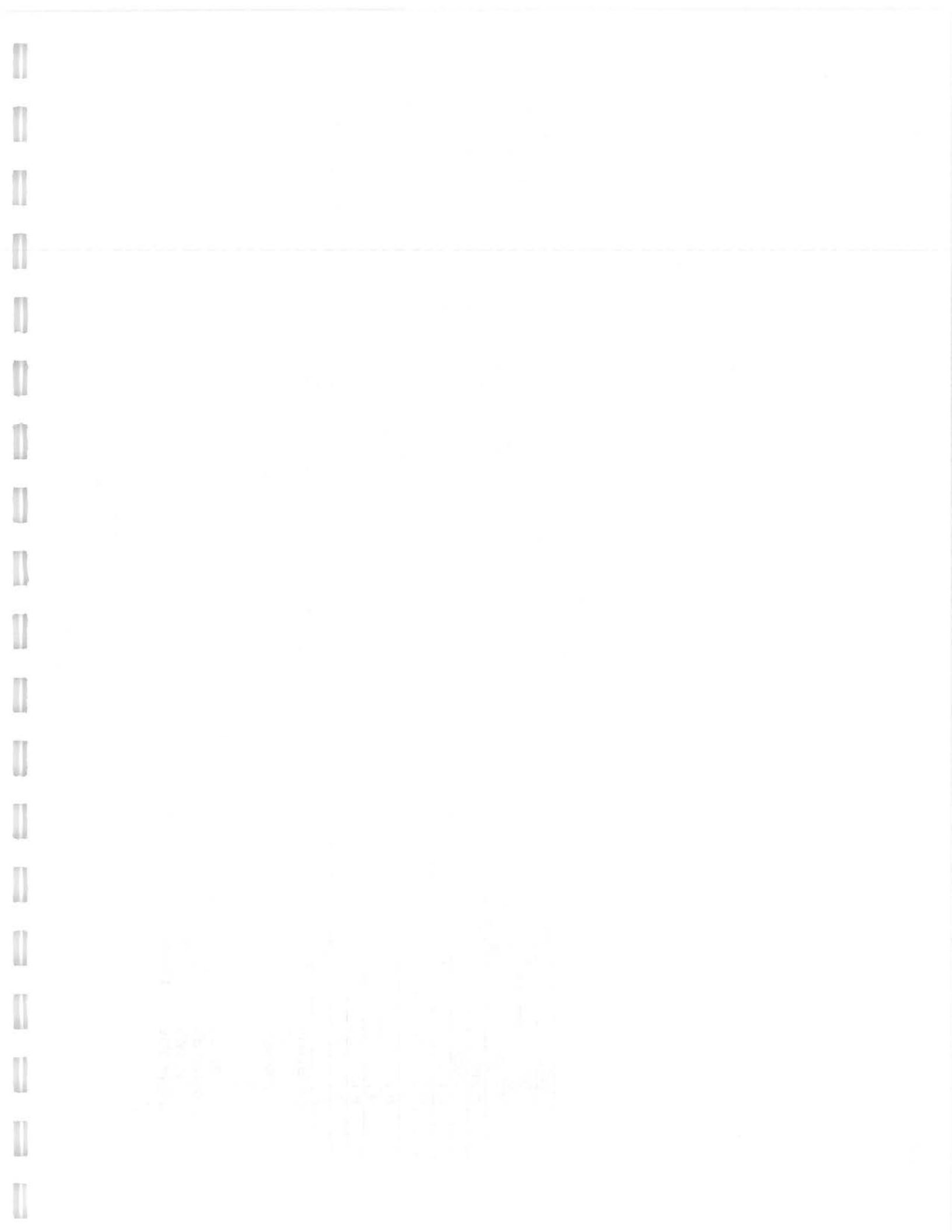
ASH LANDFILL MWT-10 ASH LANDFILL MWT-11 ASH LANDFILL MWT-11  
GROUND WATER GROUND WATER GROUND WATER  
TR2002 TR2001 TR2000



APPENDIX C3  
 GROUNDWATER MONITORING - ASH LANDFILL  
 CHEMICAL RESULTS TRENCH WELLS -2Q 1999  
 SENECA ARMY DEPOT ACTIVITY

ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
MWT-1	MWT-10	MWT-11
GROUND WATER	GROUND WATER	GROUND WATER
TR2002	TR2001	TR2000

	CONCENTRATION	FREQUENCY OF DETECTION	CLASS GA STANDARD	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	ASH TRENCH		
							4/26/1999 SA	4/26/1999 SA	4/26/1999 SA
Trans-1,2-Dichloroethene	UG/L	0	5	0	0	12	4 U	1 U	1 U
Trans-1,3-Dichloropropene	UG/L	0	5	0	0	12	4 U	1 U	1 U
Trichloroethene	UG/L	430	5	3	6	12	23	1 U	1 U
Vinyl chloride	UG/L	0	2	0	0	12	4 U	1 U	1 U
1,2,4-Trichlorobenzene	UG/L	0	5	0	0	12	4 U	1 U	1 U
1,2-Dichlorobenzene	UG/L	0	4.7	0	0	12	4 U	1 U	1 U
1,3-Dichlorobenzene	UG/L	0	5	0	0	12	4 U	1 U	1 U
1,4-Dichlorobenzene	UG/L	0	4.7	0	0	12	4 U	1 U	1 U
Calcium	UG/L	264000	100%	0	12	12	122000	49900	102000
Iron	UG/L	548000	100%	9	12	12	403	13100	54.6 B
Magnesium	UG/L	74400	100%	0	12	12	13800	10600	12800
Manganese	UG/L	6260	100%	5	12	12	13.2 B	191	78
Potassium	UG/L	15100	100%	0	12	12	1460 B	1520 B	5600
Sodium	UG/L	16400	100%	0	12	12	9010	8860	12300





APPENDIX C3  
GROUNDWATER MONITORING - ASH LANDFILL  
CHEMICAL RESULTS TRENCH WELLS -2Q 1999  
SENECA ARMY DEPOT ACTIVITY

CHEMICAL	CONCENTRATION	UNITS	DETECTION STANDARD	FREQUENCY			CLASSIFICATION			WELL IDENTIFICATION				
				OF	CLASS GA	NUMBER ABOVE	NUMBER OF	NUMBER OF	SA	ASH TRENCH	SA	ASH TRENCH		
1,1,1-Trichloroethane	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U	ASH LANDFILL MMWT-2 GROUND WATER TR2008	ASH LANDFILL MMWT-3 GROUND WATER TR2007	ASH LANDFILL MMWT-4 GROUND WATER TR2004
1,1,2,2-Tetrachloroethane	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
1,1,2-Trichloroethane	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
1,1-Dichloroethane	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
1,1-Dichloroethene	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
1,2-Dibromo-3-chloropropane	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
1,2-Dibromoethane	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
1,2-Dichloroethane	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
1,2-Dichloropropane	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
Acetone	16	UG/L	42%	0.7	1	6	5	12	0.7 J	8 U	14 U			
Benzene	0.9	UG/L	50%	0	0	0	0	12	1 U	2 U	3 U			
Bromochloromethane	0	UG/L	0%	0	0	0	0	12	1 U	2 U	3 U			
Bromodichloromethane	0	UG/L	0%	0	0	0	0	12	1 U	2 U	3 U			
Bromoform	0	UG/L	0%	0	0	0	0	12	1 U	2 U	3 U			
Carbon disulfide	1	UG/L	8%	0	0	1	1	12	1	2 U	3 U			
Carbon tetrachloride	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
Chlorobenzene	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
Chlorodibromomethane	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
Chloroethane	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
Chloroform	0	UG/L	0%	7	0	0	0	12	1 U	2 U	3 U			
Cis-1,2-Dichloroethene	73	UG/L	83%	5	7	10	10	12	30 E	27	49			
Cis-1,3-Dichloropropene	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
Ethyl benzene	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
Methyl bromide	0	UG/L	0%	0	0	0	0	12	1 U	2 U	3 U			
Methyl butyl ketone	0	UG/L	0%	0	0	0	0	12	5 U	8 U	14 U			
Methyl chloride	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
Methyl ethyl ketone	0	UG/L	0%	50	0	0	0	12	5 U	8 U	14 U			
Methyl isobutyl ketone	0	UG/L	0%	0	0	0	0	12	5 U	8 U	14 U			
Methylene chloride	0	UG/L	0%	5	0	0	0	12	2 U	3 U	6 U			
Styrene	0	UG/L	0%	0	0	0	0	12	1 U	2 U	3 U			
Tetrachloroethene	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			
Toluene	0.7	UG/L	17%	5	0	2	2	12	0.7 J	2 U	3 U			
Total Xylenes	0	UG/L	0%	5	0	0	0	12	1 U	2 U	3 U			



APPENDIX C3  
 GROUNDWATER MONITORING - ASH LANDFILL  
 CHEMICAL RESULTS TRENCH WELLS -2Q 1999  
 SENECA ARMY DEPOT ACTIVITY

ASH LANDFILL	ASH LANDFILL	ASH LANDFILL
MWT-2	MWT-3	MWT-4
GROUND WATER	GROUND WATER	GROUND WATER
TR2008	TR2007	TR2004
11.3	8	10
11.3	8	10

	MAXIMUM UG/L	DETECTION	NYS CLASS GA STANDARD	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	ASH TRENCH	
							4/28/1999 SA	4/26/1999 SA
Trans-1,2-Dichloroethene	0	0%	5	0	0	12	1 U	3 U
Trans-1,3-Dichloropropene	0	0%	5	0	0	12	1 U	3 U
Trichloroethene	430	50%	5	3	6	12	1 J	2 J
Vinyl chloride	0	0%	2	0	0	12	1 U	3 U
1,2,4-Trichlorobenzene	0	0%	5	0	0	12	1 U	3 U
1,2-Dichlorobenzene	0	0%	4.7	0	0	12	1 U	3 U
1,3-Dichlorobenzene	0	0%	5	0	0	12	1 U	3 U
1,4-Dichlorobenzene	0	0%	4.7	0	0	12	1 U	3 U
Calcium	264000	100%	300	9	12	12	523000	983
Iron	548000	100%	300	0	12	12	60800	13000
Magnesium	74400	100%	300	5	12	12	6260	611
Manganese	6260	100%	300	0	12	12	15100	1900 B
Potassium	15100	100%	20000	0	12	12	7410	15900
Sodium	16400	100%						



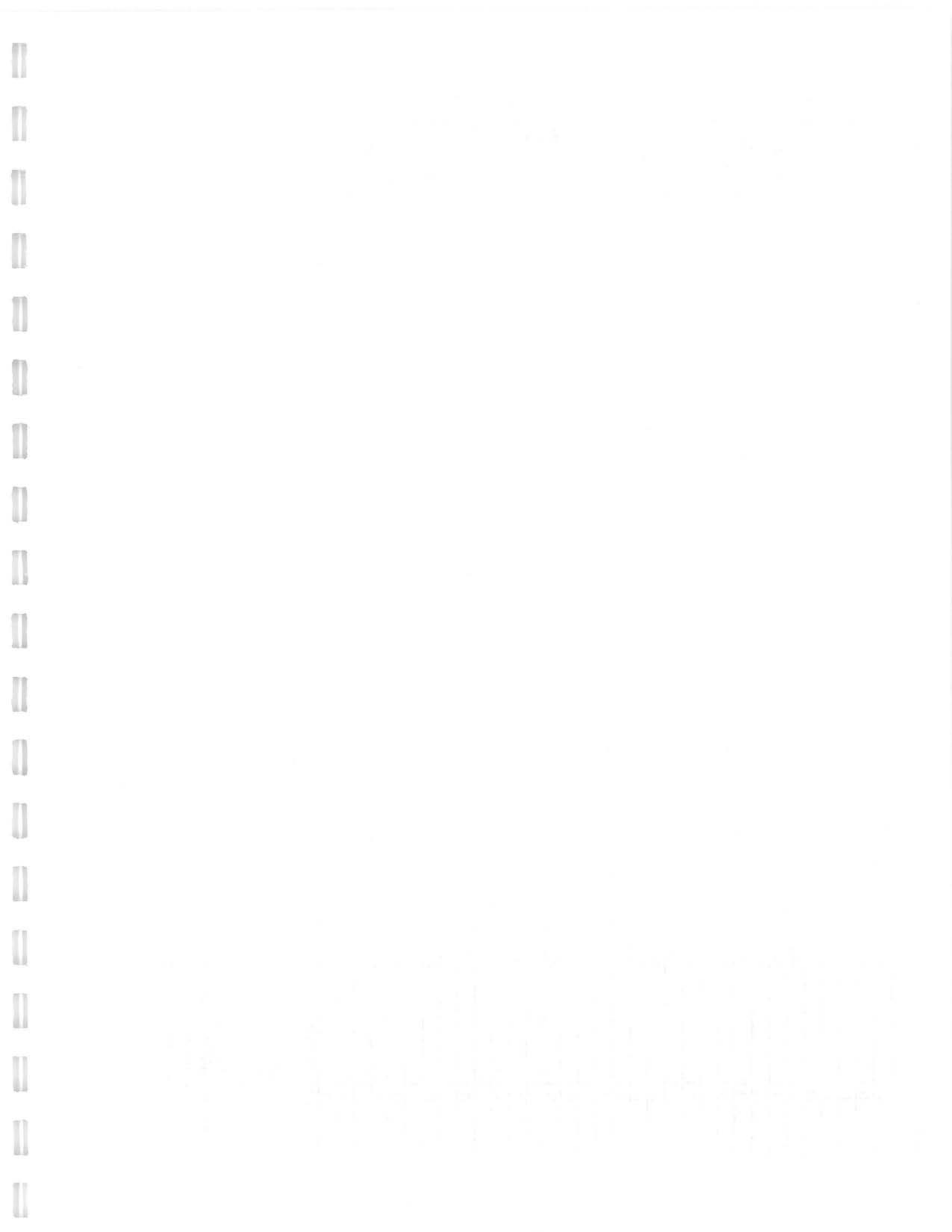
APPENDIX C3  
GROUNDWATER MONITORING - ASH LANDFILL  
CHEMICAL RESULTS TRENCH WELLS -2Q 1999  
SENECA ARMY DEPOT ACTIVITY

CHEMICAL	CONCENTRATION	FREQUENCY OF DETECTION	CLASS GA STANDARD	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	ASH TRENCH		
							SA	ASH TRENCH	ASH TRENCH
1,1,1-Trichloroethane	UG/L	0	0%	5	0	12	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	12	1 U	1 U	1 U
1,1,2-Trichloroethane	UG/L	0	0%	5	0	12	1 U	1 U	1 U
1,1-Dichloroethane	UG/L	0	0%	5	0	12	1 U	1 U	1 U
1,1-Dichloroethene	UG/L	0	0%	5	0	12	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	UG/L	0	0%	5	0	12	1 U	1 U	1 U
1,2-Dibromoethane	UG/L	0	0%	5	0	12	1 U	1 U	1 U
1,2-Dichloroethane	UG/L	0	0%	5	0	12	1 U	1 U	1 U
1,2-Dichloropropane	UG/L	0	0%	5	0	12	1 U	1 U	1 U
Acetone	UG/L	16	42%	0	5	12	7	5	6
Benzene	UG/L	0.9	50%	0.7	1	12	0.9 J	0.7 J	0.7 J
Bromochloromethane	UG/L	0	0%	0	0	12	1 U	1 U	1 U
Bromodichloromethane	UG/L	0	0%	0	0	12	1 U	1 U	1 U
Bromoform	UG/L	0	0%	0	0	12	1 U	1 U	1 U
Carbon disulfide	UG/L	1	8%	0	1	12	1 U	1 U	1 U
Carbon tetrachloride	UG/L	0	0%	5	0	12	1 U	1 U	1 U
Chlorobenzene	UG/L	0	0%	5	0	12	1 U	1 U	1 U
Chlorodibromomethane	UG/L	0	0%	0	0	12	1 U	1 U	1 U
Chloroethane	UG/L	0	0%	5	0	12	1 U	1 U	1 U
Chloroform	UG/L	0	0%	7	0	12	1 U	1 U	1 U
Cis-1,2-Dichloroethene	UG/L	73	83%	5	7	10	0.7 J	3	3
Cis-1,3-Dichloropropene	UG/L	0	0%	5	0	12	1 U	1 U	1 U
Ethyl benzene	UG/L	0	0%	5	0	12	1 U	1 U	1 U
Methyl bromide	UG/L	0	0%	0	0	12	1 U	1 U	1 U
Methyl butyl ketone	UG/L	0	0%	0	0	12	5 U	5 U	5 U
Methyl chloride	UG/L	0	0%	5	0	12	1 U	1 U	1 U
Methyl ethyl ketone	UG/L	0	0%	50	0	12	5 U	5 U	5 U
Methyl isobutyl ketone	UG/L	0	0%	0	0	12	5 U	5 U	5 U
Methylene chloride	UG/L	0	0%	5	0	12	2 U	2 U	2 U
Styrene	UG/L	0	0%	0	0	12	1 U	1 U	1 U
Tetrachloroethene	UG/L	0	0%	5	0	12	1 U	1 U	1 U
Toluene	UG/L	0.7	17%	5	0	12	0.3 J	1 U	1 U
Total Xylenes	UG/L	0	0%	5	0	12	1 U	1 U	1 U

ASH LANDFILL  
MMWT-5  
GROUND WATER  
TR2009  
11.1  
11.1

ASH LANDFILL  
MMWT-6  
GROUND WATER  
TR2006  
10.5  
10.5

ASH LANDFILL  
MMWT-6  
GROUND WATER  
TR2011  
10.5  
10.5



APPENDIX C3  
GROUNDWATER MONITORING - ASH LANDFILL  
CHEMICAL RESULTS TRENCH WELLS -2Q 1999  
SENECA ARMY DEPOT ACTIVITY

	MAXIMUM UG/L	DETECTION	CLASS GA	STANDARD	TAGM	FREQUENCY NYS		NUMBER ABOVE	NUMBER OF	NUMBER OF	ASH LANDFILL		
						OF	CLASS GA				NUMBER ABOVE	NUMBER OF	NUMBER OF
Trans-1,2-Dichloroethene	0	0%	5	5	0	0	0	0	12	12	1 U	1 U	1 U
Trans-1,3-Dichloropropene	0	0%	5	5	0	0	0	0	12	12	1 U	1 U	1 U
Trichloroethene	430	50%	5	5	3	6	3	6	12	12	1 U	1 U	1 U
Vinyl chloride	0	0%	2	2	0	0	0	0	12	12	1 U	1 U	1 U
1,2,4-Trichlorobenzene	0	0%	5	5	0	0	0	0	12	12	1 U	1 U	1 U
1,2-Dichlorobenzene	0	0%	4.7	4.7	0	0	0	0	12	12	1 U	1 U	1 U
1,3-Dichlorobenzene	0	0%	5	5	0	0	0	0	12	12	1 U	1 U	1 U
1,4-Dichlorobenzene	0	0%	4.7	4.7	0	0	0	0	12	12	1 U	1 U	1 U
Calcium	264000	100%	0	300	9	12	0	12	12	177000	43800	244	44000
Iron	548000	100%	0	300	9	12	0	12	12	548000	4920 B	392	4970 B
Magnesium	74400	100%	0	300	5	12	0	12	12	74400	4920 B	170	169
Manganese	6260	100%	0	300	5	12	0	12	12	5010	1910 B	2080 B	2080 B
Potassium	15100	100%	0	20000	0	12	0	12	12	14200	16100	16100	16100
Sodium	16400	100%	0	20000	0	12	0	12	12	13900	16100	16100	16100





APPENDIX C3  
GROUNDWATER MONITORING - ASH LANDFILL  
CHEMICAL RESULTS TRENCH WELLS -2Q 1999  
SENECA ARMY DEPOT ACTIVITY

CHEMICAL	UNIT	MAXIMUM DETECTION STANDARD	FREQUENCY NYS				ASH LANDFILL		ASH LANDFILL		ASH LANDFILL	
			OF CLASS GA	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	SA	ASH TRENCH	SA	ASH TRENCH	SA	ASH TRENCH
1,1,1-Trichloroethane	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
1,1,2-Trichloroethane	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
1,1-Dichloroethane	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
1,1-Dichloroethane	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
1,2-Dibromo-3-chloropropane	UG/L	0	0%	0	0	0	12	22 U	1 U		2 U	
1,2-Dibromoethane	UG/L	0	0%	0	0	0	12	22 U	1 U		2 U	
1,2-Dichloroethane	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
1,2-Dichloropropane	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
Acetone	UG/L	16	42%	0	0	5	12	110 U	16		11 U	
Benzene	UG/L	0.9	50%	0.7	1	6	12	22 U	1 U		2 U	
Bromochloromethane	UG/L	0	0%	0	0	0	12	22 U	1 U		2 U	
Bromodichloromethane	UG/L	0	0%	0	0	0	12	22 U	1 U		2 U	
Bromoform	UG/L	0	0%	0	0	0	12	22 U	1 U		2 U	
Carbon disulfide	UG/L	1	8%	0	0	1	12	22 U	1 U		2 U	
Carbon tetrachloride	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
Chlorobenzene	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
Chlorodibromomethane	UG/L	0	0%	0	0	0	12	22 U	1 U		2 U	
Chloroethane	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
Chloroform	UG/L	0	0%	7	0	0	12	22 U	1 U		2 U	
Cis-1,2-Dichloroethene	UG/L	73	83%	5	7	10	12	20 J	1 U		32	
Cis-1,3-Dichloropropene	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
Ethyl benzene	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
Methyl bromide	UG/L	0	0%	0	0	0	12	22 U	1 U		2 U	
Methyl butyl ketone	UG/L	0	0%	0	0	0	12	110 U	5 U		11 U	
Methyl chloride	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
Methyl ethyl ketone	UG/L	0	0%	50	0	0	12	110 U	5 U		11 U	
Methyl isobutyl ketone	UG/L	0	0%	0	0	0	12	110 U	5 U		11 U	
Methylene chloride	UG/L	0	0%	5	0	0	12	44 U	2 U		4 U	
Styrene	UG/L	0	0%	0	0	0	12	22 U	1 U		2 U	
Tetrachloroethene	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	
Toluene	UG/L	0.7	17%	5	0	2	12	22 U	1 U		2 U	
Total Xylenes	UG/L	0	0%	5	0	0	12	22 U	1 U		2 U	

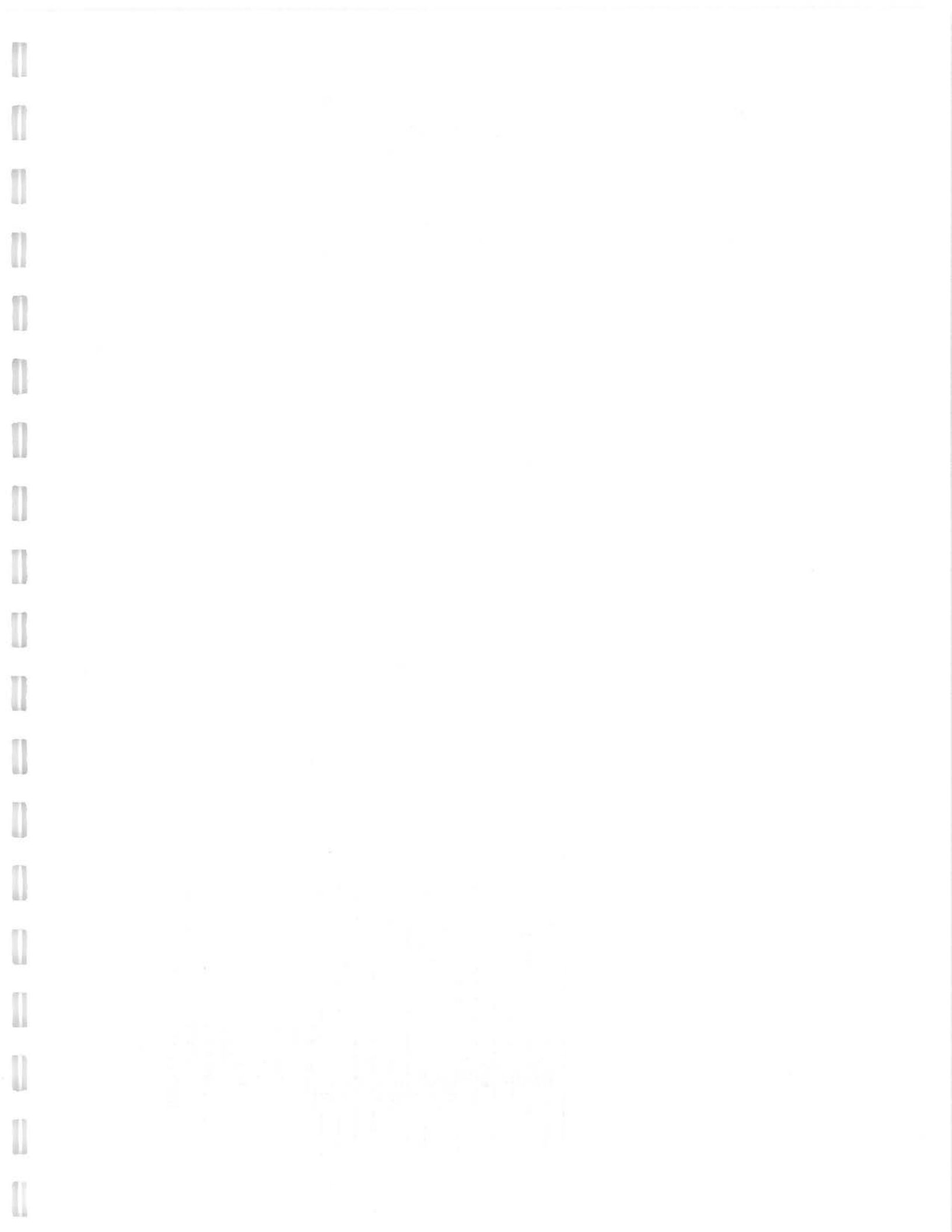
ASH LANDFILL MWT-7 GROUND WATER TR2003 11.5 11.5  
ASH LANDFILL MWT-8 GROUND WATER TR2010 11.58 11.58  
ASH LANDFILL MWT-9 GROUND WATER TR2005 12.14 12.14



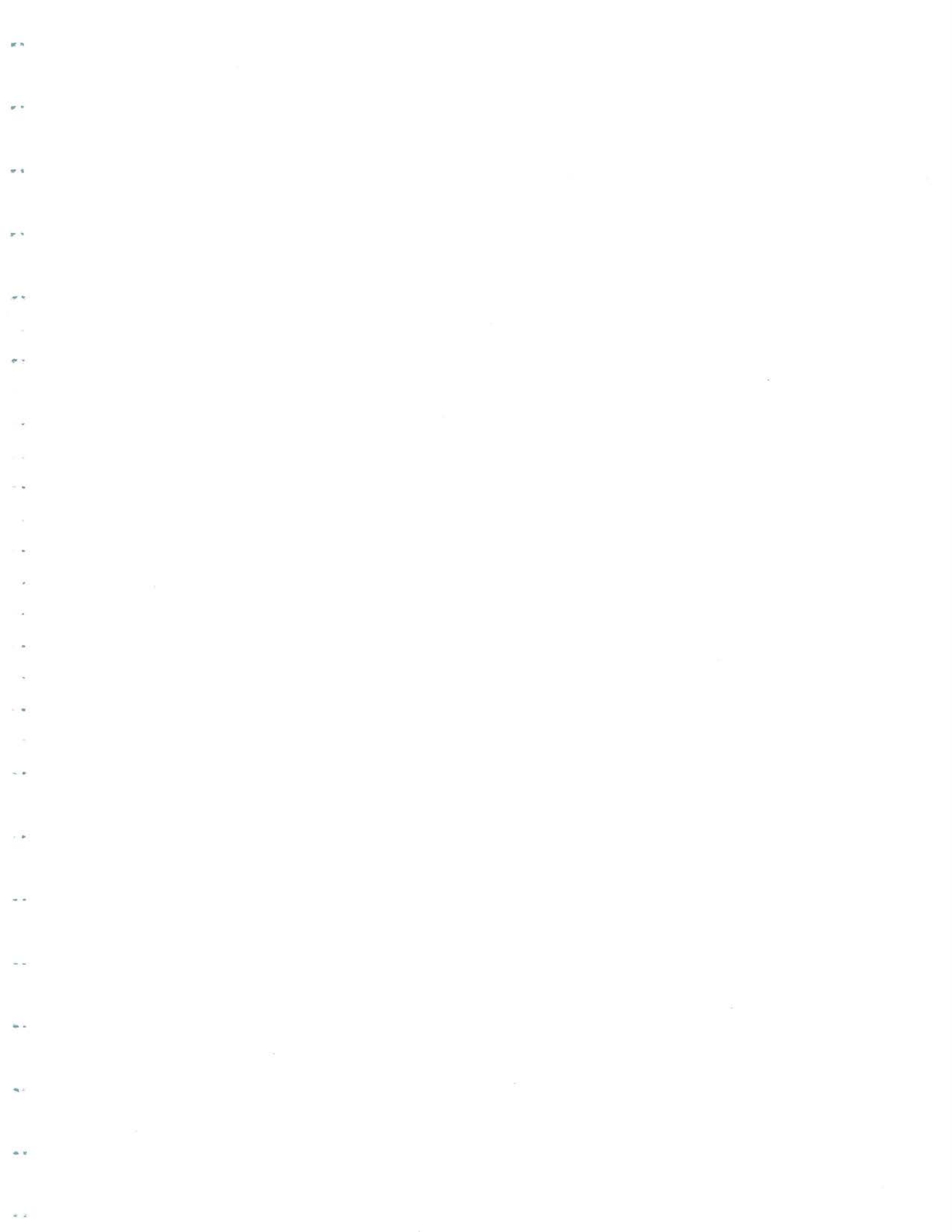
APPENDIX C3  
 GROUNDWATER MONITORING - ASH LANDFILL  
 CHEMICAL RESULTS TRENCH WELLS - 2Q 1999  
 SENECA ARMY DEPOT ACTIVITY

CHEMICAL	UNIT	MAXIMUM DETECTION STANDARD	FREQUENCY OF CLASS GA	NUMBER ABOVE TAGM		NUMBER OF ANALYSES		ASH TRENCH		ASH TRENCH		ASH TRENCH	
				NUMBER	OF	NUMBER	OF	SA	ASH TRENCH	SA	ASH TRENCH	SA	ASH TRENCH
Trans-1,2-Dichloroethene	UG/L	0	0%	5	0	12	12	22 U	1 U			2 U	
Trans-1,3-Dichloropropene	UG/L	0	0%	5	0	12	12	22 U	1 U			2 U	
Trichloroethene	UG/L	430	50%	5	3	6	12	430	1 U			43	
Vinyl chloride	UG/L	0	0%	2	0	0	12	22 U	1 U			2 U	
1,2,4-Trichlorobenzene	UG/L	0	0%	5	0	0	12	22 U	1 U			2 U	
1,2-Dichlorobenzene	UG/L	0	0%	4.7	0	0	12	22 U	1 U			2 U	
1,3-Dichlorobenzene	UG/L	0	0%	5	0	0	12	22 U	1 U			2 U	
1,4-Dichlorobenzene	UG/L	0	0%	4.7	0	0	12	22 U	1 U			2 U	
Calcium	UG/L	264000	100%	0	0	12	12	122000	40200			36200	
Iron	UG/L	548000	100%	300	9	12	12	228	37300			1010	
Magnesium	UG/L	74400	100%	0	0	12	12	14300	9830			9520	
Manganese	UG/L	6260	100%	300	5	12	12	22.5	416			444	
Potassium	UG/L	15100	100%	0	0	12	12	2030 B	6250			1600 B	
Sodium	UG/L	16400	100%	20000	0	12	12	16400	10000			14100	

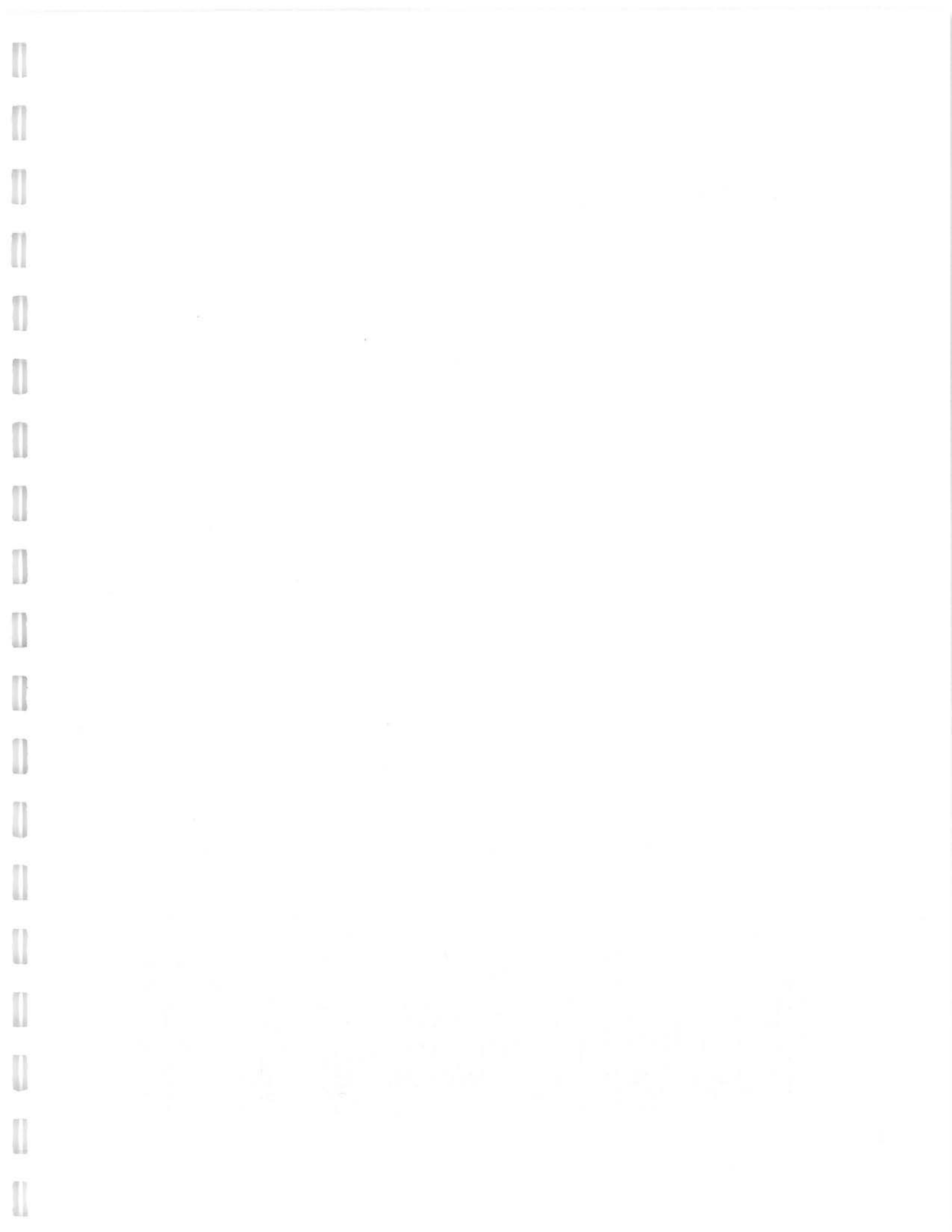
ASH LANDFILL MWMT-7 GROUND WATER TR2003 11.5 11.5 4/27/1999 SA 12.14  
 ASH LANDFILL MWMT-8 GROUND WATER TR2010 11.58 11.58 4/28/1999 SA 12.14  
 ASH LANDFILL MWMT-9 GROUND WATER TR2005 12.14 12.14 4/27/1999 SA 12.14









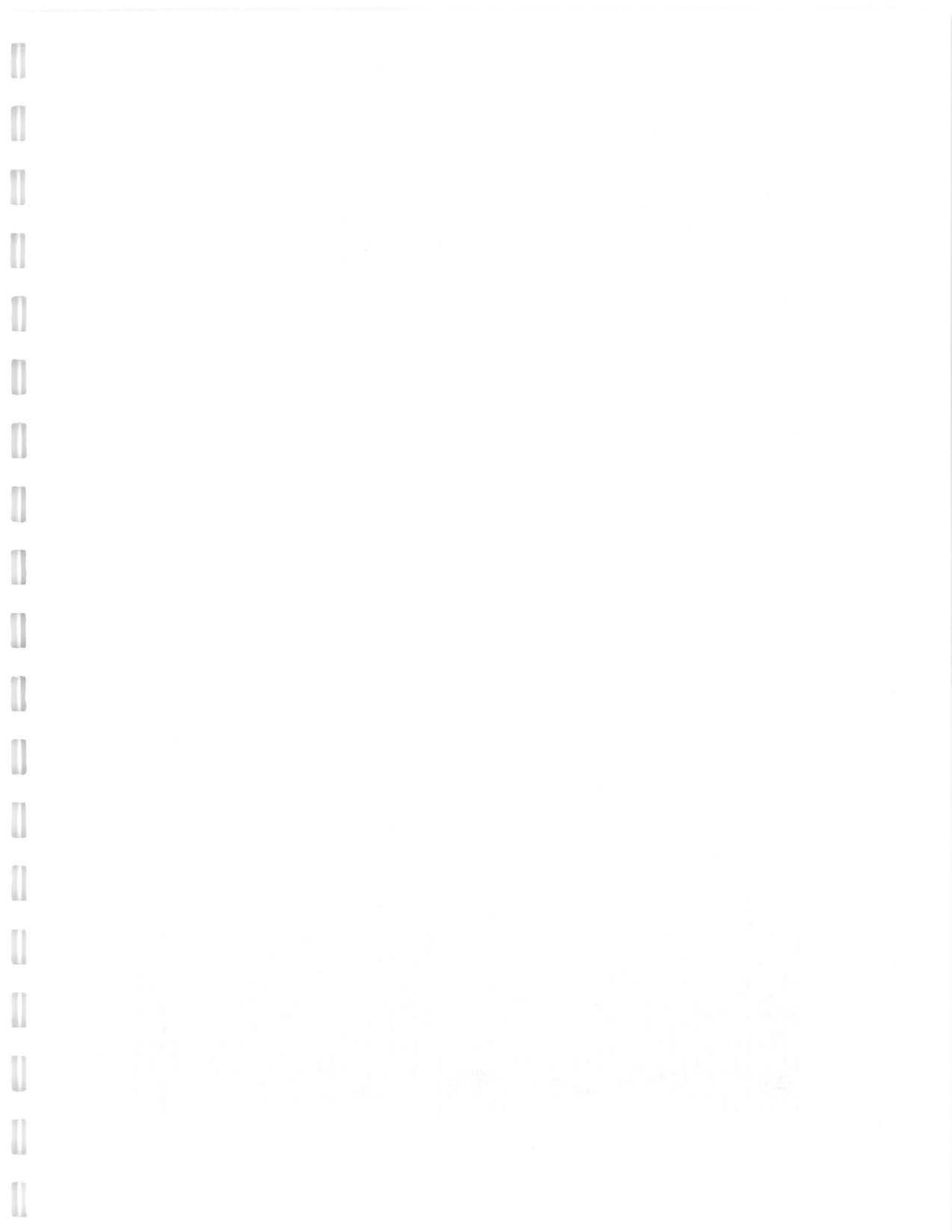












APPENDIX C4  
GROUND WATER CHEMICAL RESULTS - 3Q 2001  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

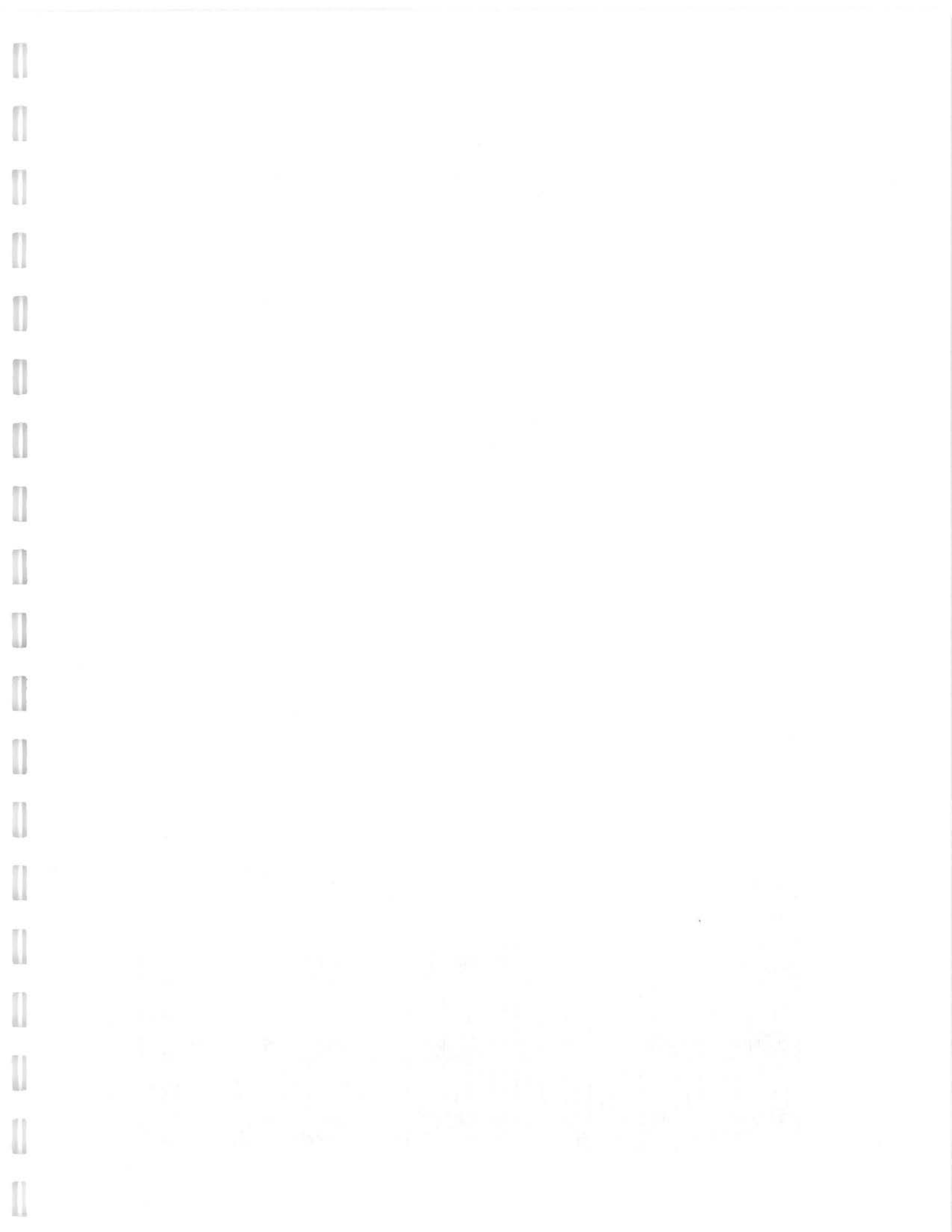
STUDY ID	PARAMETER	UNIT	MAXIMUM DETECTION	FREQUENCY OF	Criteria Value	Criteria Source	NUMBER ABOVE STD	NUMBER OF DETECTS	NUMBER OF ANALYSES	FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE				
										ASH LANDFILL MWVT-1	ASH LANDFILL MWVT-10	ASH LANDFILL MWVT-3	ASH LANDFILL MWVT-4	ASH LANDFILL MWVT-5
	Dichlorodifluoromethane	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Dichloromethyl methyl ketone	UG/L	0	0%	5 GA		0	0	11	25 R	25 R	25 R	110 R	38 R
	Ethyl benzene	UG/L	0	0%			0	0	17	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Ethyl ether	UG/L	0	0%			0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Ethyl methacrylate	UG/L	0	0%	0.5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Hexachlorobutadiene	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Hexachloroethane	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Isopropylbenzene	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Methyl para Xylene	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Methacrylonitrile	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Methyl 2-propanoate	UG/L	0	0%			0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Methyl Terbutyl Ether	UG/L	0	0%	5 GA		0	0	17	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Methyl bromide	UG/L	0	0%			0	0	17	2.5 UJ	2.5 UJ	2.5 UJ	11 UJ	3.8 UJ
	Methyl butyl ketone	UG/L	0	0%	5 GA		0	0	17	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Methyl chloride	UG/L	0	0%			0	0	17	5 U	5 U	5 U	22 U	7.5 U
	Methyl ethyl ketone	UG/L	0	0%	5 GA		0	0	17	2.5 U	2.5 U	2.5 U	11 U	3.8 U
	Methyl iodide	UG/L	0	0%			0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Methyl isobutyl ketone	UG/L	0	0%	50 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Methyl methacrylate	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Methylene bromide	UG/L	29	18%	5 GA		2	3	17	0.5 U	0.5 U	0.5 U	2.2 U	0.91 U
	Methylene chloride	UG/L	0	0%			0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Naphthalene	UG/L	0	0%	0.4 GA		0	0	11	25 R	25 R	25 R	110 R	38 R
	Nitrobenzene	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Ortho Xylene	UG/L	0	0%	5 GA		0	0	11	0.5 UJ	0.5 UJ	0.5 UJ	2.2 UJ	0.75 UJ
	Pentachloroethane	UG/L	0	0%			0	0	11	25 U	25 U	25 U	110 U	38 U
	Propionitrile	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Propylbenzene	UG/L	0	0%	5 GA		0	0	17	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Styrene	UG/L	0	0%	5 GA		0	0	17	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Tetrachloroethene	UG/L	0	0%	5 GA		0	0	11	2.5 U	2.5 U	2.5 U	11 U	3.8 U
	Tetrahydrofuran	UG/L	0	0%			0	0	17	0.5 U	0.29 U	0.5 U	2.2 U	0.75 U
	Toluene	UG/L	0.29	6%	5 GA		0	1	17	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Total Xylenes	UG/L	0	0%	5 GA		0	0	17	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Trans-1,2-Dichloroethene	UG/L	0.71	29%	5 GA		0	5	17	0.27 U	0.27 U	0.27 U	2.2 U	0.42 U
	Trans-1,3-Dichloropropene	UG/L	0	0%	0.4 GA		0	0	17	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Trans-1,4-Dichloro-2-butene	UG/L	0	0%			0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Trichloroethene	UG/L	9100	82%	5 GA		9	14	17	6.4	0.5 U	0.5 U	2.2 U	0.86
	Trichlorofluoromethane	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	Vinyl chloride	UG/L	120	18%	2 GA		2	3	17	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	n-Butylbenzene	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	p-Chlorotoluene	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	p-Isopropyltoluene	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	sec-Butylbenzene	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U
	tert-Butylbenzene	UG/L	0	0%	5 GA		0	0	11	0.5 U	0.5 U	0.5 U	2.2 U	0.75 U

Notes  
1 GA NY State Class GA Groundwater Standard (TOGS 1.1.1, June 1998)  
MCL: US EPA Maximum Contaminant Limit, March 2001.



NDIX  
GROUND WATER CHEMICAL RESULTS - 3Q 2001  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

STUDY ID	SAMPLE ROUND	PARAMETER	UNIT	MAXIMUM	DETECTION	FREQUENCY OF	Criteria Value	Criteria Source	NUMBER ABOVE STD.	NUMBER OF ANALYSES	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		
											TR2075	TR2076	TR2077	TR2078	TR2079	TR2080	TR2081	TR2082	TR2083	TR2084	
1,1,1,2-Tetrachloroethane	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,1,1-Trichloroethane	UGL	0	0%	5 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,1,2,2-Tetrachloroethane	UGL	0	0%	1 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,1,2-Trichloroethane	UGL	0	0%	5 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,1-Dichloroethane	UGL	6	18%	5 GA	1	3	3	3	3	17	0.65 J	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,1-Dichloroethane	UGL	0	0%	5 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,1-Dichloroethane	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,2,3-Trichloropropane	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,2,3-Trichloropropane	UGL	0	0%	0.04 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,2,4-Trichlorobenzene	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,2,4-Trichlorobenzene	UGL	0	0%	0.04 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,2-Dibromo-3-chloropropane	UGL	0	0%	0.0005 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,2-Dichlorobenzene	UGL	0	0%	3 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,2-Dichlorobenzene	UGL	0.28	6%	0.6 GA	0	1	1	1	1	17	0.28 J	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,2-Dichloropropane	UGL	0	0%	1 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,3,5-Trimethylbenzene	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,3-Dichlorobenzene	UGL	0	0%	3 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,3-Dichloropropane	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
1,4-Dichlorobenzene	UGL	0	0%	3 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
2,2-Dichloropropane	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
2-Chlorotoluene	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
2-Nitropropane	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
4-Bromofluorobenzene	UGL	5	100%	5 GA	0	0	0	0	0	6	25 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U	780 U
Acetone	UGL	350	24%	5 GA	0	4	4	4	4	17	120 J	160 UJ	160 UJ	350 J	510 UJ	510 UJ	640 UJ	2800 UJ	2800 UJ	2800 UJ	2800 UJ
Acrylonitrile	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 UJ	16 UJ	16 UJ	16 UJ	16 UJ	16 UJ	16 UJ	16 UJ	16 UJ	16 UJ	16 UJ
Allyl chloride	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Benzene	UGL	0.81	12%	1 GA	0	2	2	2	2	17	0.31 J	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Bromobenzene	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Bromochloromethane	UGL	0	0%	5 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Bromodichloromethane	UGL	0.87	6%	80 MCL	0	1	1	1	1	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Bromoforn	UGL	0.62	6%	80 MCL	0	1	1	1	1	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Bulky chloride	UGL	0	0%	5 GA	0	0	0	0	0	11	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Carbon disulfide	UGL	0.34	6%	5 GA	0	1	1	1	1	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Carbon tetrachloride	UGL	0	0%	5 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Chloroacetone	UGL	0	0%	5 GA	0	0	0	0	0	11	2.5 R	780 R	780 R	220 R	100 U	100 U	130 U	550 U	550 U	550 U	
Chlorobromomethane	UGL	0	0%	80 MCL	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Chloroethane	UGL	0	0%	5 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Chloroform	UGL	0.46	6%	7 GA	0	1	1	1	1	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U
Cis-1,2-Dichloroethane	UGL	2300	82%	5 GA	13	14	14	14	14	17	29 J	42 J	160 J	2300 J	2200 J	1200 J	1200 J	1200 J	1200 J	1200 J	1200 J
Cis-1,3-Dichloropropene	UGL	0	0%	0.4 GA	0	0	0	0	0	17	0.5 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U	16 U









APPENDIX C4  
GROUND WATER CHEMICAL RESULTS - 3Q 2001  
GROUNDWATER MONITORING -  
ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

FACILITY  
ASH LANDFILL  
LOCATION ID  
PT-24  
MATRIX  
GROUNDWATER  
SAMPLE ID  
ARD2166  
DEPTH TO TOP OF SAMPLE  
10 88  
DEPTH TO BOTTOM OF SAMPLE  
10 88  
SAMPLE DATE  
31-Aug-01  
SA

STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	FREQUENCY OF	Criteria Value	Criteria Source	NUMBER ABOVE	NUMBER OF	NUMBER OF	ASH REMEDIAL
								STD	DETECTS	ANALYSES	Value (U)
<b>VOLATILE ORGANICS</b>											
	1,1,1,2-tetrachloroethane	UG/L	0	0%	0%	5 GA		0	0	0	11
	1,1,1-Trichloroethane	UG/L	0	0%	0%	5 GA		0	0	0	17
	1,1,2,2-tetrachloroethane	UG/L	0	0%	0%	5 GA		0	0	0	17
	1,1,2-Trichloroethane	UG/L	0	0%	0%	1 GA		0	0	0	17
	1,1-Dichloroethane	UG/L	6	18%	0%	5 GA		1	3	3	17
	1,1-Dichloroethane	UG/L	0	0%	0%	5 GA		0	0	0	17
	1,1-Dichloropropane	UG/L	0	0%	0%	5 GA		0	0	0	11
	1,1-Dichloropropane	UG/L	0	0%	0%	5 GA		0	0	0	11
	1,2,3-Trichlorobenzene	UG/L	0	0%	0%	0.04 GA		0	0	0	17
	1,2,3-Trichloropropane	UG/L	0	0%	0%	5 GA		0	0	0	17
	1,2,4-Trimethylbenzene	UG/L	0	0%	0%	5 GA		0	0	0	11
	1,2,4-Trimethylbenzene	UG/L	0	0%	0%	0.04 GA		0	0	0	17
	1,2-Dibromo-3-chloropropane	UG/L	0	0%	0%	0.0005 GA		0	0	0	17
	1,2-Dibromoethane	UG/L	0	0%	0%	3 GA		0	0	0	17
	1,2-Dichlorobenzene	UG/L	0	0%	0%	0.6 GA		0	1	1	17
	1,2-Dichloroethane	UG/L	0.28	5%	0%	1 GA		0	0	0	17
	1,2-Dichloropropane	UG/L	0	0%	0%	5 GA		0	0	0	11
	1,3,5-Trimethylbenzene	UG/L	0	0%	0%	3 GA		0	0	0	17
	1,3-Dichlorobenzene	UG/L	0	0%	0%	5 GA		0	0	0	11
	1,3-Dichloropropane	UG/L	0	0%	0%	5 GA		0	0	0	11
	1,4-Dichlorobenzene	UG/L	0	0%	0%	3 GA		0	0	0	17
	2,2-Dichloropropane	UG/L	0	0%	0%	5 GA		0	0	0	11
	2-Chlorotoluene	UG/L	0	0%	0%	5 GA		0	0	0	11
	2-Nitropropane	UG/L	0	0%	0%	5 GA		0	0	0	11
	4-Bromofluorobenzene	UG/L	5	100%	0%	2.4%		0	4	4	17
	Acetone	UG/L	350	24%	0%	5 GA		0	0	0	11
	Acrylonitrile	UG/L	0	0%	0%	5 GA		0	0	0	11
	Allyl chloride	UG/L	0	0%	0%	5 GA		0	0	0	11
	Benzene	UG/L	0.81	12%	0%	1 GA		0	2	2	17
	Bromobenzene	UG/L	0	0%	0%	5 GA		0	0	0	17
	Bromobenzene	UG/L	0	0%	0%	5 GA		0	0	0	17
	Bromochloroethane	UG/L	0.87	6%	0%	80 MCL		0	1	1	17
	Bromodichloroethane	UG/L	0.62	6%	0%	80 MCL		0	1	1	17
	Bromoforn	UG/L	0	0%	0%	5 GA		0	0	0	11
	Butyl chloride	UG/L	0	0%	0%	5 GA		0	1	1	17
	Carbon disulfide	UG/L	0.34	6%	0%	5 GA		0	0	0	17
	Carbon tetrachloride	UG/L	0	0%	0%	5 GA		0	0	0	17
	Chloroacetonitrile	UG/L	0	0%	0%	5 GA		0	0	0	11
	Chlorobenzene	UG/L	0	0%	0%	5 GA		0	0	0	17
	Chlorodibromomethane	UG/L	1.1	6%	0%	80 MCL		0	1	1	17
	Chloroethane	UG/L	0	0%	0%	5 GA		0	0	0	17
	Chloroform	UG/L	0.46	5%	0%	7 GA		0	1	1	17
	Cis-1,2-Dichloroethane	UG/L	2300	82%	0%	5 GA		13	14	17	73
	Cis-1,3-Dichloropropene	UG/L	0	0%	0%	0.4 GA		0	0	0	17



APPENDIX C4  
GROUND WATER CHEMICAL RESULTS - 3Q 2001  
GROUNDWATER MONITORING  
ASH REMEDIAL DESIGN  
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

FACILITY  
ASH LANDFILL  
LOCATION ID  
PT-24  
MATRIX  
GROUNDWATER  
SAMPLE ID  
ARD2166  
DEPTH TO TOP OF SAMPLE  
10.88  
DEPTH TO BOTTOM OF SAMPLE  
10.88  
SAMPLE DATE  
31-Aug-01  
SA

STUDY ID	OC CODE	SAMPLE ROUND	PARAMETER	UNIT	MAXIMUM DETECTION VALUE	FREQUENCY OF DETECTION	CRITERIA VALUE	CRITERIA SOURCE	NUMBER ABOVE STD	NUMBER OF DETECTS	NUMBER OF ANALYSES	ASH REMEDIAL VALUE (Q)
			Dichlorodifluoromethane	UG/L	0	0%	5 GA		0	0	0	16
			Dichloromethyl methyl ketone	UG/L	0	0%	5 GA		0	0	0	11
			Ethyl benzene	UG/L	0	0%	5 GA		0	0	0	17
			Ethyl ether	UG/L	0	0%			0	0	0	11
			Ethyl methacrylate	UG/L	0	0%			0	0	0	11
			Hexachlorobutadiene	UG/L	0	0%	0.5 GA		0	0	0	11
			Hexachloroethane	UG/L	0	0%	5 GA		0	0	0	11
			Isopropylbenzene	UG/L	0	0%	5 GA		0	0	0	11
			Metal/Para Xylene	UG/L	0	0%			0	0	0	11
			Methacrylonitrile	UG/L	0	0%	5 GA		0	0	0	11
			Methyl 2-propanoate	UG/L	0	0%			0	0	0	11
			Methyl Tertbutyl Ether	UG/L	0	0%			0	0	0	11
			Methyl bromide	UG/L	0	0%	5 GA		0	0	0	17
			Methyl butyl ketone	UG/L	0	0%			0	0	0	17
			Methyl chloride	UG/L	0	0%	5 GA		0	0	0	17
			Methyl ethyl ketone	UG/L	0	0%			0	0	0	17
			Methyl iodide	UG/L	0	0%	5 GA		0	0	0	11
			Methyl isobutyl ketone	UG/L	0	0%			0	0	0	17
			Methyl methacrylate	UG/L	0	0%	50 GA		0	0	0	11
			Methylene bromide	UG/L	0	0%	5 GA		0	0	0	11
			Methylene chloride	UG/L	29	18%	5 GA		2	3	3	8 U
			Naphthalene	UG/L	0	0%			0	0	0	11
			Nitrobenzene	UG/L	0	0%	0.4 GA		0	0	0	11
			Ortho Xylene	UG/L	0	0%	5 GA		0	0	0	11
			Perchloroethane	UG/L	0	0%	5 GA		0	0	0	11
			Propionitrile	UG/L	0	0%			0	0	0	11
			Propylbenzene	UG/L	0	0%	5 GA		0	0	0	11
			Styrene	UG/L	0	0%	5 GA		0	0	0	17
			Tetrachloroethene	UG/L	0	0%	5 GA		0	0	0	4 U
			Tetrahydrofuran	UG/L	0	0%			0	0	0	17
			Toluene	UG/L	0.29	5%	5 GA		0	1	1	4 U
			Total Xylenes	UG/L	0	0%	5 GA		0	0	0	17
			Trans-1,2-Dichloroethene	UG/L	0.71	29%	5 GA		0	5	5	4 U
			Trans-1,3-Dichloropropene	UG/L	0	0%	0.4 GA		0	0	0	17
			Trans-1,4-Dichloro-2-butene	UG/L	0	0%			0	0	0	11
			Trichloroethene	UG/L	9100	82%	5 GA		9	14	14	3 J
			Trichlorofluoromethane	UG/L	0	0%	5 GA		0	0	0	11
			Vinyl chloride	UG/L	120	18%	2 GA		2	3	3	4 U
			n-Butylbenzene	UG/L	0	0%	5 GA		0	0	0	11
			p-Chlorotoluene	UG/L	0	0%	5 GA		0	0	0	11
			p-Isopropyltoluene	UG/L	0	0%	5 GA		0	0	0	11
			sec-Butylbenzene	UG/L	0	0%	5 GA		0	0	0	11
			tert-Butylbenzene	UG/L	0	0%	5 GA		0	0	0	11

Notes  
1 GA, NY State Class GA Groundwater Standard (TOGS 1111, June 1998)  
MCL: US EPA Maximum Contaminant Limit, March 2001

