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

Prepared for:

**SENECA ARMY DEPOT ACTIVITY
ROMULUS, NEW YORK
and
U.S. ARMY CORPS OF ENGINEERS
HUNTSVILLE, ALABAMA**

Prepared by:

PARSONS
30 Dan Road
Canton, Massachusetts

Contract Number DACA87-95-0031
Delivery Order #6
730769

November 2002



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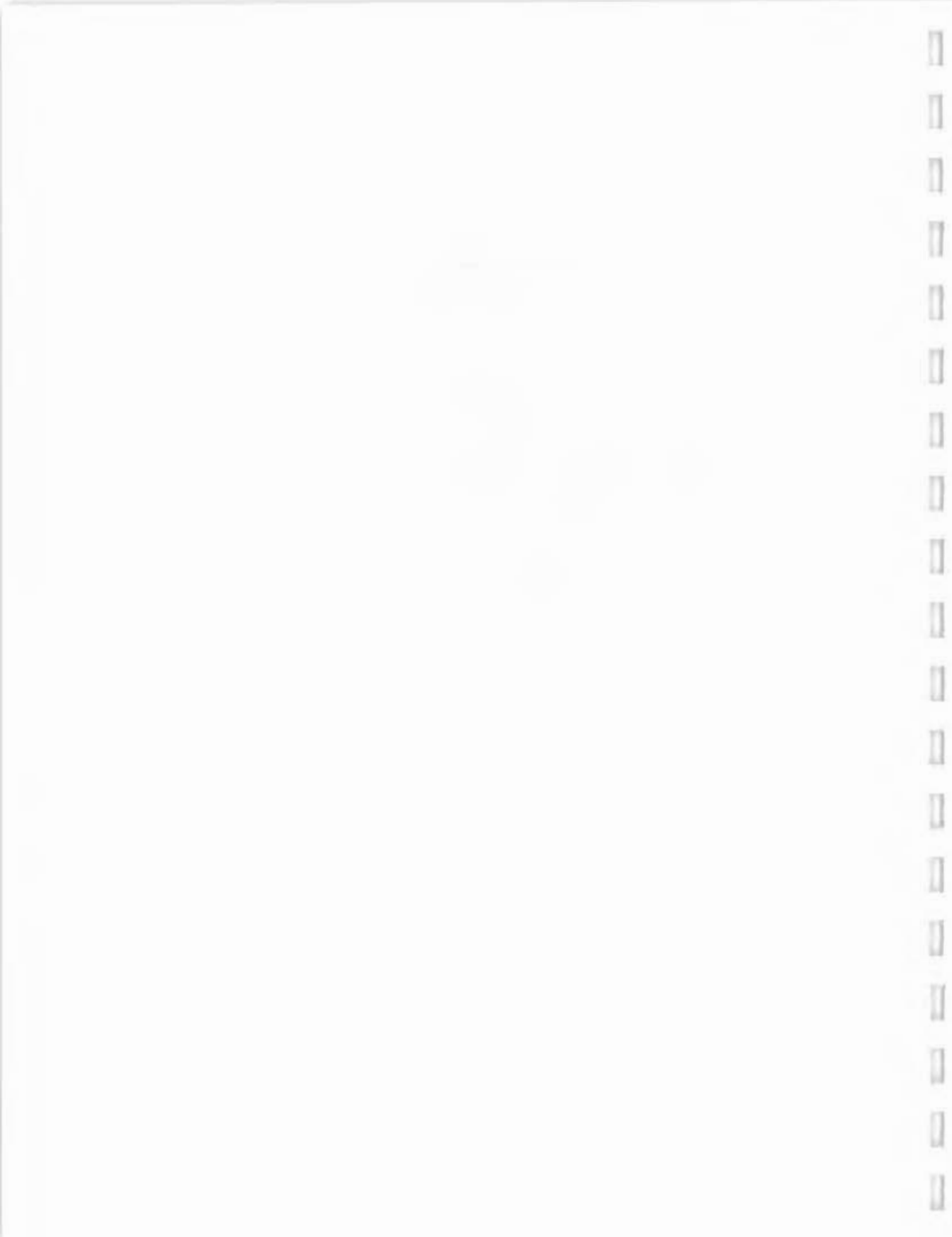
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FIGURES

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- Figure 3-4 Historical TCE and DCE Concentrations at PT-18
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- Figure 3-6 Historical TCE and DCE Concentrations at MW-28
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APPENDICES

APPENDIX A GROUNDWATER ELEVATION DATA

Field Data Sheets

APPENDIX B THIRD QUARTER 2002 LABORATORY REPORTS

Severn Trent Labs (STL)

APPENDIX C HISTORICAL GROUNDWATER ANALYTICAL DATA



1 INTRODUCTION

This report summarizes results of Third Quarter 2002 (3Q 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. 6.

Previously collected groundwater data is combined with information collected during the 3Q 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 3Q 2002 sampling and monitoring event.

2 QUARTERLY MONITORING ACTIVITIES

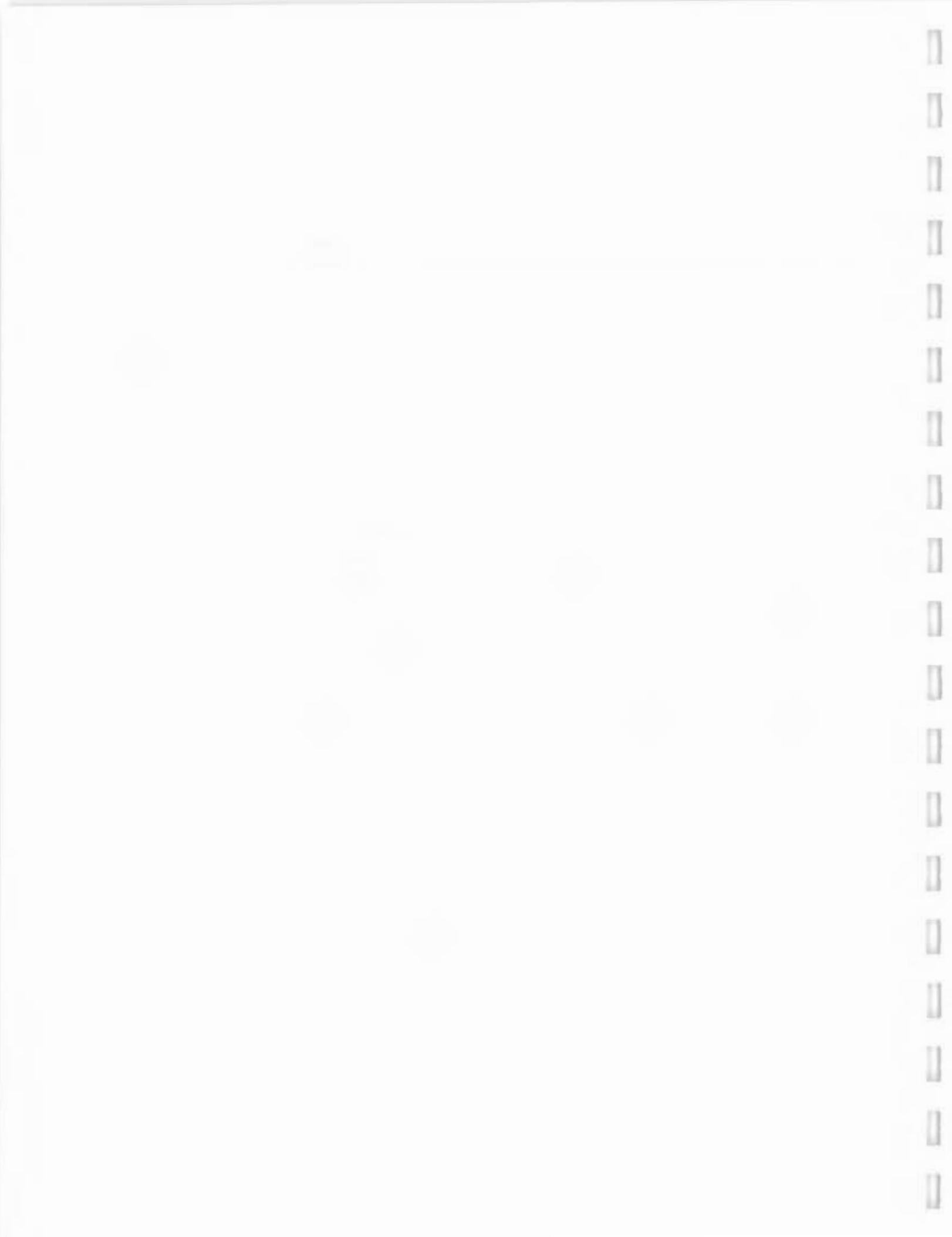
3Q 2002 sampling and monitoring activities at the Ash Landfill consisted of measurements of groundwater elevations at 46 locations, field measurements of groundwater physical and chemical properties at 10 locations, and sample collection and laboratory analysis at 11 locations. A description of these activities is provided below.

2.1 GROUNDWATER ELEVATION MEASUREMENTS

From August 15 through August 16, 2002, Parsons measured the depth to groundwater at 46 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 August 15 through August 16, 2002, Parsons collected groundwater samples from ten monitoring wells and one farmhouse well. 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[®] tubing. The shallow aquifer well located outside the farm 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 3Q 2002 sampling event. As shown in **Table 2-1**, groundwater quality measurements were performed on samples from the same 11 locations that were described in Section 2.2. **Table 2-1** also lists the laboratory analyses performed on the seven 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.

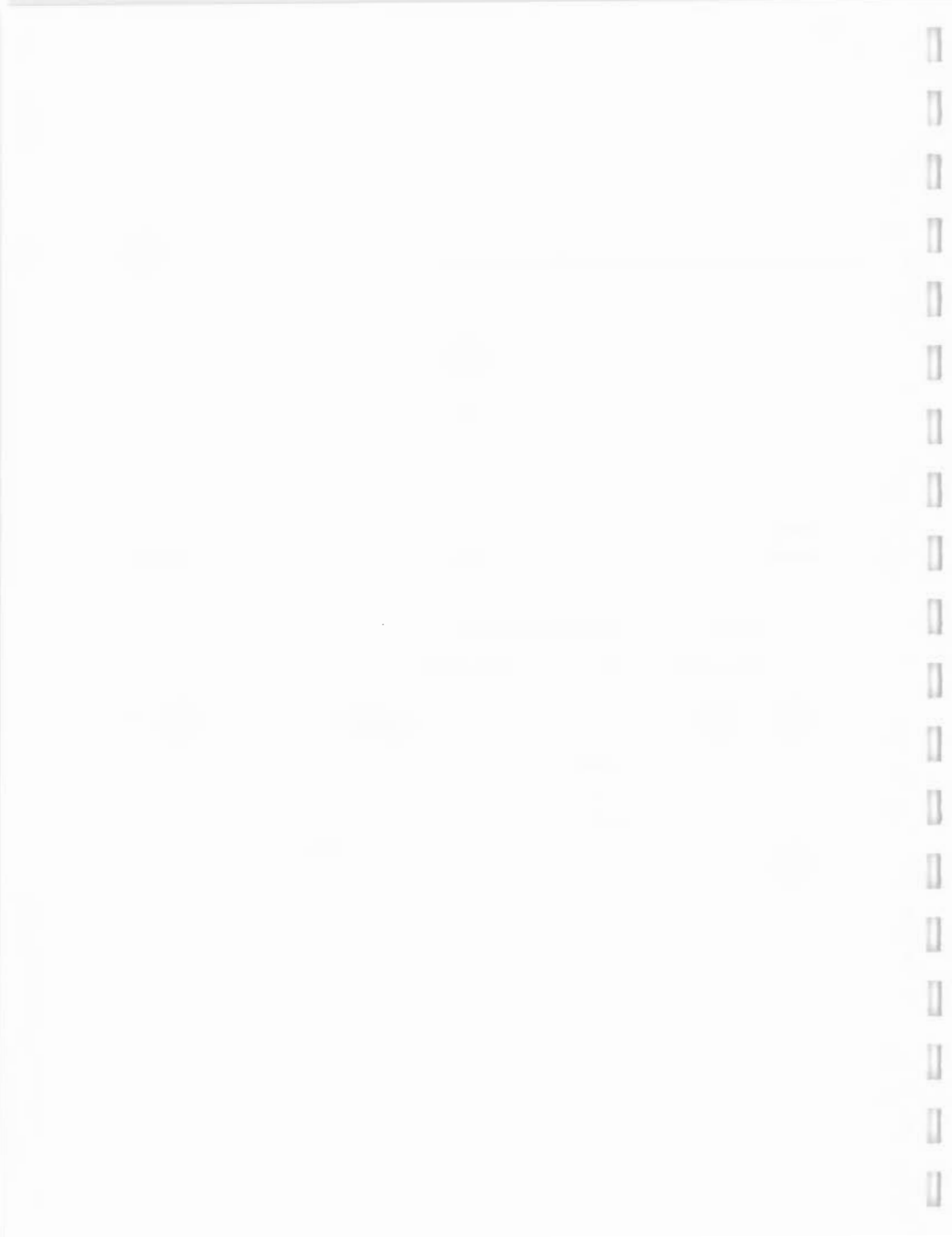
Groundwater samples were collected and sent to Severn Trent Laboratories (STL; Colchester, VT) for analysis of volatile organic compounds (VOCs). VOC concentrations were measured using USEPA Methods 524.2 and 8260B. The Missouri River Division (MRD) of the US Army Corps of Engineers (USACOE) analyzed 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 48 monitoring wells sampled during the 3Q 2002 sampling event. Of the 48 overburden monitoring wells that were sampled, six were found to be dry. The saturated thickness at monitoring wells in and around the permeable reactive barrier ranged between 1.74 ft (MWT-11) and 3.72 ft (MWT-7). The saturated thicknesses are significantly lower than those recorded during the April 2002 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 3Q 2002.

Figure 3-1 depicts a groundwater elevation contour map for the Ash Landfill Operable Unit that was drawn using 3Q 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 3Q 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 groundwater flows through the wall at all locations during low flow conditions. During the wetter season in April 2002, there was actually a slight flow back into the wall 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 10 monitoring wells that were sampled during 3Q 2002. Field parameter measurements were not obtained during the groundwater sampling of the farmhouse well. 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 3Q 2002 sampling were consistent with previous sampling events. Dissolved oxygen concentrations for the 3Q 2002 sampling event ranged from 0.56 mg/L (PT-24) to 3.40 mg/L (MWT-7). Groundwater ORP values for the 10 wells monitored during this sampling event range between -35 mV (MWT-9) and +317 mV (MWT-11). The average ORP for this round of sampling was +144.4 mV. The average ORP for 3Q 2002 is higher than the averages calculated for 2Q 2002 (+98.3), 3Q 2001 (+69.5 mV), 4Q 1999 (+50.78 mV) and 1Q 2000 (+64.6 mV). Groundwater pH measurements ranged from 6.7 to 9.75.

3.3 GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical results are presented in **Tables 3-3 and 3-4**. VOC results from eleven samples are reported in **Table 3-3**. **Table 3-4** provides a summary of only those VOCs that were detected. Results of 3Q 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 170 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 170 DCE µg/ L at MWT-9. Monitoring well MWT-9 is located approximately 12 feet downgradient of both MWT-7 and 6 feet downgradient of 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-10 and BN-S. The maximum and minimum TCE concentrations in these four wells were 140 µg/ L at MWT-9 and 0.53 µg/L at MWT-6, respectively. The maximum and minimum DCE concentrations in these four wells were 170

1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

2. It then goes on to describe the various methods used to collect and analyze data from these records.

3. The next section details the specific steps involved in the data collection process, from identifying sources to gathering information.

4. This is followed by a discussion of the analysis techniques used to interpret the collected data and identify trends.

5. Finally, the document concludes with a summary of the findings and recommendations for future research in this area.

6. The following section provides a detailed overview of the theoretical framework underlying the study.

7. It outlines the key concepts and models that inform the research, as well as the hypotheses being tested.

8. The next part of the document describes the research methodology, including the design, data collection, and analysis procedures.

9. This is followed by a presentation of the results, which are organized into several tables and figures.

10. The final section discusses the implications of the findings and offers suggestions for further research.

$\mu\text{g/L}$ at MWT-9 and $21 \mu\text{g/L}$ at MWT-3 and MWT-6, respectively. No detectable levels of chlorinated ethenes were found in groundwater samples from the farmhouse well (BN-S). DCE and TCE were detected in MW-28 at concentrations of $17 \mu\text{g/L}$ and $20 \mu\text{g/L}$, respectively.

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, MW-30 and MW-44A were not updated since these wells were not sampled during 3Q 2002. These figures illustrate the seasonal and historical trends for TCE and DCE concentrations in monitoring wells that were sampled during previous monitoring events. 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 stabilizing with a slight overall downward trend observed. 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 ($54 \mu\text{g/L}$). The DCE concentration increased in 3Q 2002 slightly, however, a general trend downward is apparent. 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 3Q 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 3-5** 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 = $3.5 \mu\text{g/L}$; DCE = $21 \mu\text{g/L}$) were slightly lower than the concentrations at upgradient MW-1 (TCE = $6.0 \mu\text{g/L}$; DCE = $25 \mu\text{g/L}$). This suggests that some

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data. The text also mentions that regular audits are necessary to identify any discrepancies or errors in the accounting process.

2. The second part of the document focuses on the role of technology in modern accounting. It highlights how software solutions can streamline various tasks, such as data entry, calculation, and reporting. This not only saves time but also reduces the risk of human error. The document suggests that businesses should invest in reliable accounting software to improve their overall financial management.

3. The third part of the document addresses the importance of staying up-to-date with the latest accounting standards and regulations. It notes that the accounting profession is constantly evolving, and professionals must be aware of any changes that could affect their work. Continuous education and training are essential to ensure that accountants are equipped with the necessary skills and knowledge to perform their duties effectively.

4. The fourth part of the document discusses the importance of maintaining a good working relationship with clients and stakeholders. It suggests that clear communication and transparency are key to building trust and ensuring that all parties are satisfied with the services provided. The text also mentions that accountants should be proactive in identifying potential issues and addressing them promptly.

5. The fifth part of the document concludes by summarizing the key points discussed throughout the document. It reiterates the importance of accuracy, technology, staying current, and maintaining good relationships. The document ends with a call to action, encouraging accountants to strive for excellence in their profession and to continuously seek ways to improve their skills and services.

6. The sixth part of the document provides a detailed overview of the accounting cycle. It explains the ten steps involved in the process, from identifying the accounting entity to preparing financial statements. Each step is described in detail, and the document provides examples to illustrate how each step is applied in a real-world scenario. This section is particularly useful for students and professionals who are new to the field of accounting.

7. The seventh part of the document discusses the various types of accounting used in different industries. It covers financial accounting, management accounting, cost accounting, and tax accounting. Each type is explained in detail, and the document highlights the specific roles and responsibilities associated with each. This section helps readers understand the scope and application of different accounting disciplines.

8. The eighth part of the document focuses on the importance of ethics in the accounting profession. It discusses the various ethical dilemmas that accountants may encounter and provides guidance on how to handle them. The document emphasizes that integrity and honesty are fundamental to the profession, and that accountants have a duty to act in the best interests of their clients and the public.

9. The ninth part of the document discusses the role of accountants in the business world. It explains how accountants provide valuable insights and advice to management, helping them make informed decisions about the company's financial future. The document also mentions that accountants play a crucial role in ensuring compliance with various laws and regulations.

10. The tenth part of the document concludes with a final summary and a call to action. It encourages accountants to continue to learn and grow in their profession, and to always maintain the highest standards of integrity and professionalism. The document ends with a positive note, expressing confidence in the future of the accounting profession.

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 = 0.53µg/L ; DCE = 21µg/L) were significantly lower than the concentrations measured at upgradient MW-4 (TCE = 3.7µg/L; DCE = 95µg/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 140 µg/L at MW-9, but the DCE concentration was observed to increase from 32µg/L at MW-7 to 170µg/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 3Q 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 were low as expected for the summer.
3. Groundwater analytical results are generally consistent with seasonal trends in the October 1999, January 2000, September 2001, and April 2002 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 last four sampling events.
6. The combined observed changes in TCE concentrations, DCE concentrations, reaction endproduct concentrations, redox indicator concentrations, and other chemical and physical

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial statements and for providing a clear audit trail. The records should be kept up-to-date and should be easily accessible to all relevant parties.

2. The second part of the document outlines the various methods used to collect and analyze data. These methods include interviews, surveys, and focus groups. Each method has its own strengths and weaknesses, and it is important to choose the most appropriate method for the specific research objectives. The data collected should be analyzed carefully to identify any trends or patterns.

3. The third part of the document describes the results of the research. The findings indicate that there is a strong correlation between the variables studied. This suggests that the factors being investigated are closely related and may be influencing each other. The results are supported by the data collected and are consistent with the theoretical framework.

4. The fourth part of the document discusses the implications of the research. The findings have important implications for practice and for further research. They suggest that there are several areas where improvements can be made and that further research is needed to explore these areas in more detail. The results also provide valuable insights into the underlying mechanisms of the phenomena being studied.

5. The final part of the document provides a conclusion and a summary of the key findings. It emphasizes the importance of the research and the need for continued attention to these issues. The findings are presented in a clear and concise manner, and the overall message is that the research has provided valuable insights into the topic being studied. The document concludes with a call to action for further research and for the implementation of the findings in practice.

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.

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

Monitoring Well	Top of Riser Elevation (ft)	3Q 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	08/15/2002	37.66	8.70	672.82	676.90	671.02	5.88	46.36
PT-11	658.22	08/15/2002	9.25	10.30	647.92	654.03	647.79	6.24	19.55
PT-12A	652.15	08/15/2002	3.87	9.51	642.64	649.01	642.26	6.75	13.38
PT-15	637.76	08/15/2002	9.40	10.10	627.66	633.74	627.38	6.36	19.50
PT-16	637.51	08/15/2002	3.89	7.15	630.36	634.85	629.83	5.02	11.04
PT-17	640.14	08/15/2002	0.90	10.75	629.39	635.85	629.05	6.80	11.65
PT-18	656.68	08/15/2002	3.07	8.63	648.05	652.28	646.30	5.98	11.70
PT-19	645.26	08/15/2002	1.45	10.25	635.01	643.09	635.01	8.08	11.70
MW-20	647.28	08/15/2002		Dry		642.34	637.41	4.93	11.80
MW-21A	647.73	08/15/2002	9.21	10.25	637.48	643.84	637.22	6.62	19.46
MW-22	648.61	08/15/2002	0.96	10.85	637.76	644.30	637.51	6.79	11.81
PT-23	641.58	NA	NA	Not Measured		638.14	632.35	5.79	12.08
PT-24	636.40	08/15/2002	4.53	7.35	629.05	632.76	627.99	4.77	11.88
PT-25	637.09	08/15/2002	0.58	11.45	625.64	633.51	625.64	7.87	12.03
PT-26	614.64	NA	NA	Not Measured		611.60	601.53	10.07	14.00
MW-27	639.32	08/15/2002	1.69	8.85	630.47	634.88	630.09	4.79	10.54
MW-28	637.21	08/15/2002	2.79	7.60	629.61	632.57	628.71	3.86	10.39
MW-29	637.31	08/15/2002	0.99	9.55	627.76	632.10	627.30	4.80	10.54
MW-30	640.32	08/15/2002		Dry		636.38	629.88	6.50	10.52
MW-31	636.70	08/15/2002		Dry		634.22	627.02	7.20	10.35
MW-32	641.68	08/15/2002		Dry		637.84	632.70	5.14	10.37
MW-33	639.56	08/15/2002		Dry		635.65	629.72	5.93	10.39
MW-34	632.89	NA	NA	Not Measured		630.15	622.36	7.79	18.15
MW-35D	631.82	NA	NA	Removed		629.44	624.62	4.82	56.64
MW-36	631.79	NA	NA	Removed		629.47	622.26	7.21	16.58
MW-37	632.89	NA	NA	Not Measured		630.65	625.77	4.88	13.62
MW-38D	637.90	08/15/2002	24.44	7.80	630.1	635.39	628.99	6.40	32.24
MW-39	659.54	NA	NA	Not Measured		657.84	650.47	7.37	11.89
MW-40	659.30	NA	NA	Not Measured		655.85	650.16	5.69	14.71
MW-41D	694.02	NA	NA	Not Measured		687.92	685.21	2.71	47.02
MW-42D	683.04	NA	NA	Not Measured		680.67	671.39	9.28	47.38
MW-43	657.73	08/15/2002	0.52	6.95	650.78	655.13	650.73	4.40	7.47
MW-44A	653.85	08/15/2002	1.81	10.67	643.18	650.37	642.42	7.95	12.48
MW-45	650.90	08/15/2002	0.74	7.60	643.3	648.16	643.12	5.04	8.34
MW-46	650.41	08/15/2002	2.31	9.14	641.27	647.53	641.12	6.41	11.45
MW-47	628.06	08/15/2002	0.39	8.17	619.89	625.76	619.88	5.88	8.56
MW-48	648.32	08/15/2002	3.65	7.85	640.47	645.46	639.94	5.52	11.50
MW-49D	650.50	08/15/2002	28.59	8.95	641.55	647.62	641.55	6.07	37.54
MW-50D	649.88	08/15/2002	50.96	8.70	641.18	647.40	633.88	13.52	59.66
MW-51D	628.24	NA	NA	Not Measured		628.24	620.49	7.75	36.87
MW-52D	626.35	NA	NA	Not Measured		624.17	618.67	5.50	59.36
MW-53	639.41	08/15/2002	0.45	9.90	629.51	633.84	629.46	4.38	10.35
MW-54D	639.11	08/15/2002	24.54	10.45	628.66	633.43	628.66	4.77	34.99
MW-55D	639.16	08/15/2002	47.98	10.20	628.96	633.41	627.96	5.45	58.18
MW-56	630.51	08/15/2002	0.00	Dry		627.56	621.66	5.90	6.88
MW-57D	629.82	08/15/2002	29.14	5.95	623.87	628.13	621.76	6.37	35.09
MW-58D	629.69	08/15/2002	51.54	5.75	623.94	628.37	623.94	4.43	57.29

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

Monitoring Well	Top of Riser Elevation (ft)	3Q 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-59	656.83	NA	NA	Not Measured		654.93	649.85	5.08	9.10
MW-60	660.15	08/15/2002	2.30	7.20	652.95	658.20	652.23	5.97	9.50
MWT-1	637.24	08/15/2002	2.55	7.20	630.04	632.47	629.06	3.41	9.75
MWT-2	637.19	08/15/2002	2.30	7.25	629.94	632.27	629.94	2.33	9.55
MWT-3	637.31	08/15/2002	2.65	7.35	629.96	632.20	628.99	3.21	10.00
MWT-4	637.68	08/15/2002	3.68	8.75	628.93	632.47	627.28	5.19	12.43
MWT-5	637.72	08/15/2002	2.90	9.05	628.67	632.45	628.67	3.78	11.95
MWT-6	637.59	08/15/2002	3.28	9.00	628.59	632.38	627.24	5.14	12.28
MWT-7	638.34	08/15/2002	3.72	10.25	628.09	632.87	626.58	6.29	13.97
MWT-8	638.40	08/15/2002	2.10	10.45	627.95	632.58	627.95	4.63	12.55
MWT-9	638.08	NA	NA	Not Measured		632.42	626.04	6.38	14.14
MWT-10	636.07	08/15/2002	3.20	5.75	630.32	632.23	629.55	2.68	8.95
MWT-11	635.90	08/15/2002	1.74	8.21	627.69	632.95	626.92	6.03	9.95

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**TABLE 3-2
FIELD MONITORING RESULTS - AUGUST 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	ARD2180	0.56	16.8	0.590	7.30	5	10.50	0.02	0.010
MW-28	ARD2177	1.20	18.3	0.676	6.98	192	4.70	0.20	0.198
MW-30	NA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-56	NA	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
FH-D	NA	NA	NA	NA	NA	NA	NA	NA	NA
FH-S	NA	NA	NA	NA	NA	NA	NA	NA	NA
BN-S	ARD2176	NA	NA	NA	NA	NA	NA	NA	NA
MWT-1	TR2091	2.40	15.8	0.707	7.10	144	14.10	0.06	0.030
MWT-3	TR2092	0.80	16.3	0.562	7.17	146	9.00	0.00	0.027
MWT-4	TR2093	2.68	15.5	1.110	6.86	244	18.50	0.01	0.032
MWT-6	TR2094	0.82	16.1	0.487	7.46	6	9.80	0.04	0.019
MWT-7	TR2095	3.40	14.8	0.861	6.71	285	3.10	0.06	0.029
MWT-9	TR2096	0.66	16.7	0.553	7.31	-35	16.80	0.21	0.049
MWT-10	TR2097	0.65	17.8	0.093	9.75	140	6.70	0.06	0.037
MWT-11	TR2098	1.24	18.5	0.785	6.77	317	16.20	DRY	DRY

ND = Not Detected

NA = Not Analyzed

The image shows a very faint, large-scale grid or table structure, possibly a ledger or data table. The grid consists of multiple rows and columns, with lines that are extremely light and difficult to discern. The table appears to be centered on the page. The overall appearance is that of a blank or nearly blank page with a very light grid overlay.

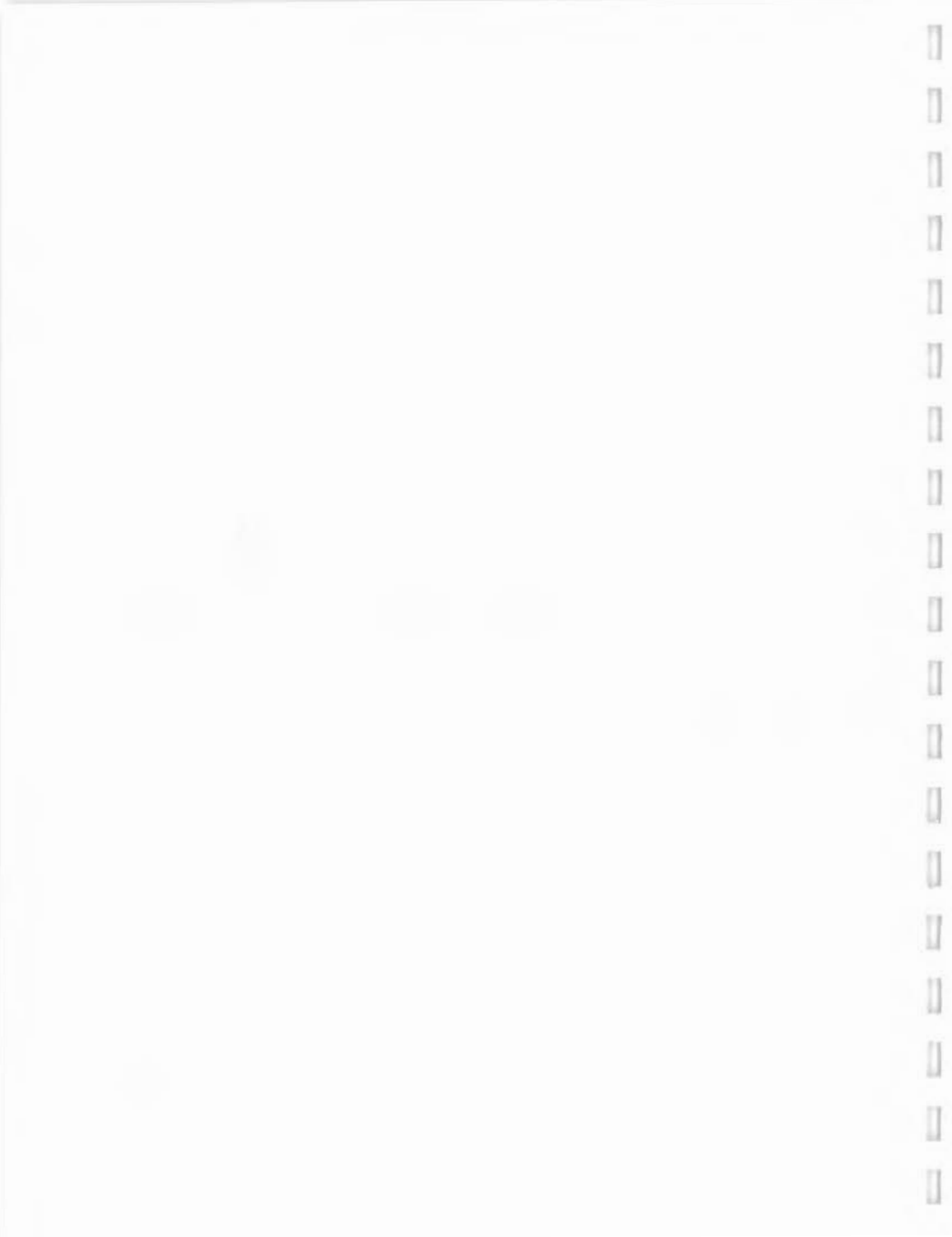


TABLE 3-3
 RESULTS OF VOC ANALYSIS - THIRD QUARTER 2002
 GROUNDWATER MONITORING - ASH LANDFILL
 SENECA ARMY DEPOT ACTIVITY

	ASH LANDFILL BN-S ARD2176		ASH LANDFILL MW-28 ARD2177		ASH LANDFILL MWT-1 TR2091		ASH LANDFILL MWT-10 TR2097		ASH LANDFILL MWT-11 TR2098	
	Value (Q)	18	Value (Q)	18	Value (Q)	18	Value (Q)	18	Value (Q)	18
meter										
benzene	0.5 U	7.6	0.5 U	7.2	0.65 U	5.75	0.5 U	8.21	0.5 U	8.21
1,1-dibromomethane	0.5 U	10.39	1 U	9.75	0.65 U	8.95	0.5 U	9.95	0.5 U	9.95
methane	0.5 U	8/16/02	1 U	8/15/02	0.65 U	8/16/02	0.5 U	8/16/02	0.5 U	8/16/02
form	0.5 U	SA	1 U	SA	0.65 U	SA	0.5 U	SA	0.5 U	SA
naprene	0.5 U	ASH REMEDIAL	1 U	ASH TRENCH	0.65 U	ASH TRENCH	0.5 U	ASH TRENCH	0.5 U	ASH TRENCH
2-Dichloroethene	0.5 U	16	1 U	25	0.65 U	0.8	0.5 U	0.5 U	0.5 U	0.5 U
3-Dichloropropene	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-trifluoroethane	10 R	1 U	1 U	13 R	10 R	10 R	10 R	10 R	10 R	10 R
1,1-dimethyl methyl ketone	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
benzene	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ether	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
methacrylate	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chlorobutadiene	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloroethane	0.5 U	50 R	50 R	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ethyl alcohol	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
pyrrolidone	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
acrylonitrile	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-propanoate	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
tert-butyl ether	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
bromide	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
butyl ketone	2.5 UJ	5 U	5 U	3.2 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
chloride	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ethyl ketone	5 R	5 R	5 R	6.5 R	5 R	5 R	5 R	5 R	5 R	5 R
iodide	0.5 U	1 UJ	1 UJ	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
isobutyl ketone	2.5 U	5 U	5 U	3.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
methacrylate	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ethylene bromide	0.5 UJ	1 UJ	1 UJ	0.65 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
ethylene chloride	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
haloethane	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
benzene	25 R	32 R	32 R	32 R	25 R	25 R	25 R	25 R	25 R	25 R
Xylene	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloroethane	0.5 U	4 R	4 R	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
nitrile	25 R	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
benzene	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
chloroethene	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
hydrofuran	0.5 UJ	1 U	1 U	0.65 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
thiophene	2.5 U	14 U	14 U	3.2 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
toluene	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylenes-A	0.5 U	1 U	1 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

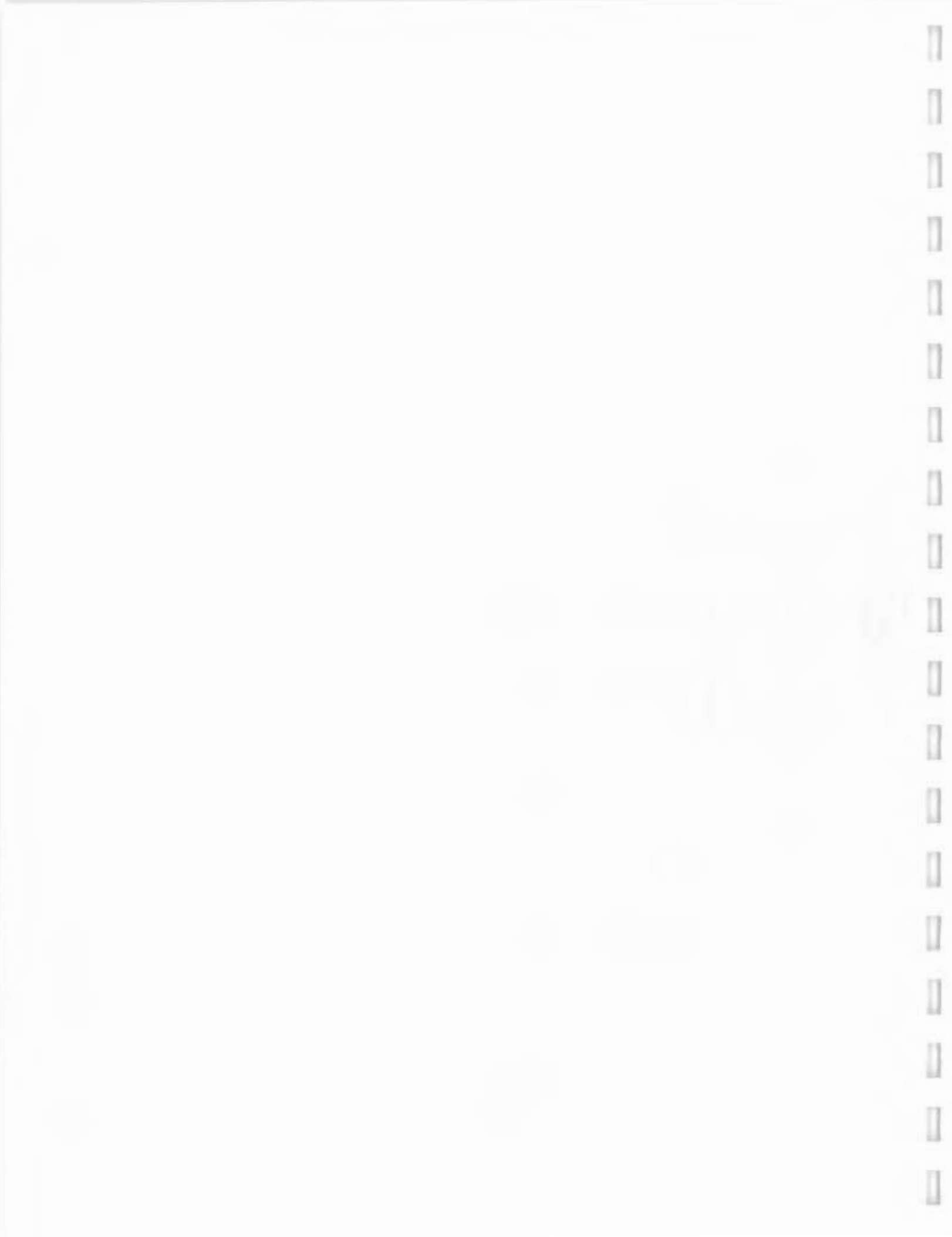
UJ indicates concentration above detection limit
 R indicates concentration above action level



TABLE 3-3
 RESULTS OF VOC ANALYSIS - THIRD QUARTER 2002
 GROUNDWATER MONITORING - ASH LANDFILL
 SENECA ARMY DEPOT ACTIVITY

Parameter	Units	Location	ASH REMEDIAL		ASH REMEDIAL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL	
			Value (Q)	18	Value (Q)	18	Value (Q)	18	Value (Q)	18	Value (Q)	18
1,2-Dichloroethene	UG/L	5	0.5 U	0.3 J	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichloropropene	UG/L	0.4	0.5 U	1 U	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichloro-2-butene	UG/L	5	0.5 U	1 U	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethene	UG/L	5	0.5 U	20	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetate	UG/L	5	0.5 U	1 U	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloride	UG/L	2	0.5 U	1 U	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichloro-2-butene	UG/L	5	0.5 U	1 U	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m-Toluene	UG/L	5	0.5 U	1 U	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Toluene	UG/L	5	0.5 U	1 U	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Toluene	UG/L	5	0.5 U	1 U	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylylene	UG/L	5	0.5 U	1 U	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m-Xylylene	UG/L	5	0.5 U	1 U	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
p-Xylylene	UG/L	5	0.5 U	1 U	0.65 U	0.65 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

U indicates concentration above detection limit
 J indicates concentration above action level



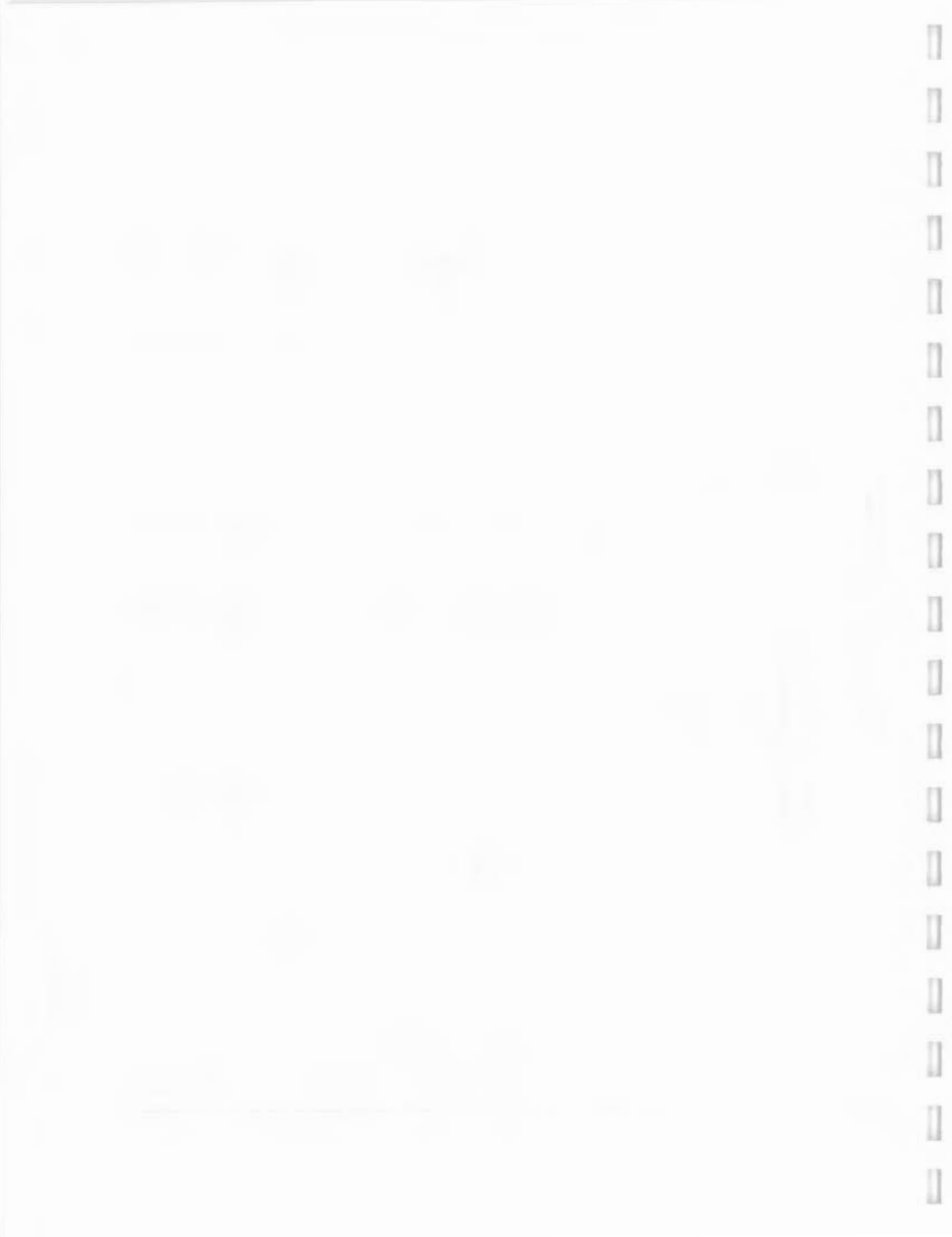






TABLE 3-4
SUMMARY OF VOC DETECTIONS
GROUNDWATER MONITORING-ASH LANDFILL
August 2002
SENECA ARMY DEPOT

Parameter	Groundwater Standard ⁽¹⁾	Units	PT-24	MW-28	BN-S	MWT-1	MWT-3	MWT-4	MWT-6	MWT-7	MWT-9	MWT-10
Trichloroethene	7.0	ug/l	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	5.0	ug/l	0.6J	--	--	--	--	--	0.51	--	--	--
1,1,1-Trichloroethene (Total)	70	ug/l	68.5	17	--	25	21	95	21	32	170	0.8
1,1-Dichloroethane	NS	ug/l	8.9J	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	5	ug/l	--	--	--	--	--	--	--	--	--	--
1,1,2-Dichloroethene	1.0	ug/l	--	--	--	--	0.22J	--	0.43J	--	--	0.63
1,1,2,2-Tetrachloroethane	5.0	ug/l	69.5	16	--	25	20	95	21	32	170	0.8
1,1,1-Trichloroethane	10	ug/l	--	--	0.6	--	--	--	--	--	--	--
1,1,2-Dichloroethane	5.0	ug/l	1.8J	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	5.0	ug/l	--	0.3J	--	--	--	--	--	--	--	0.28J
1,1,1-Trichloroethane	5.0	ug/l	4	20	--	6	3.5	3.7	0.53J	540	140	--

Notes:

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
MS = No Standard

Shaded values exceed the groundwater standard.
Only those parameters that were detected are shown.
The average value was used for MW-6 and PT-24 where duplicate samples were collected.

**Table 3-5
Historic TCE and DCE Concentrations Downgradient of PRB**

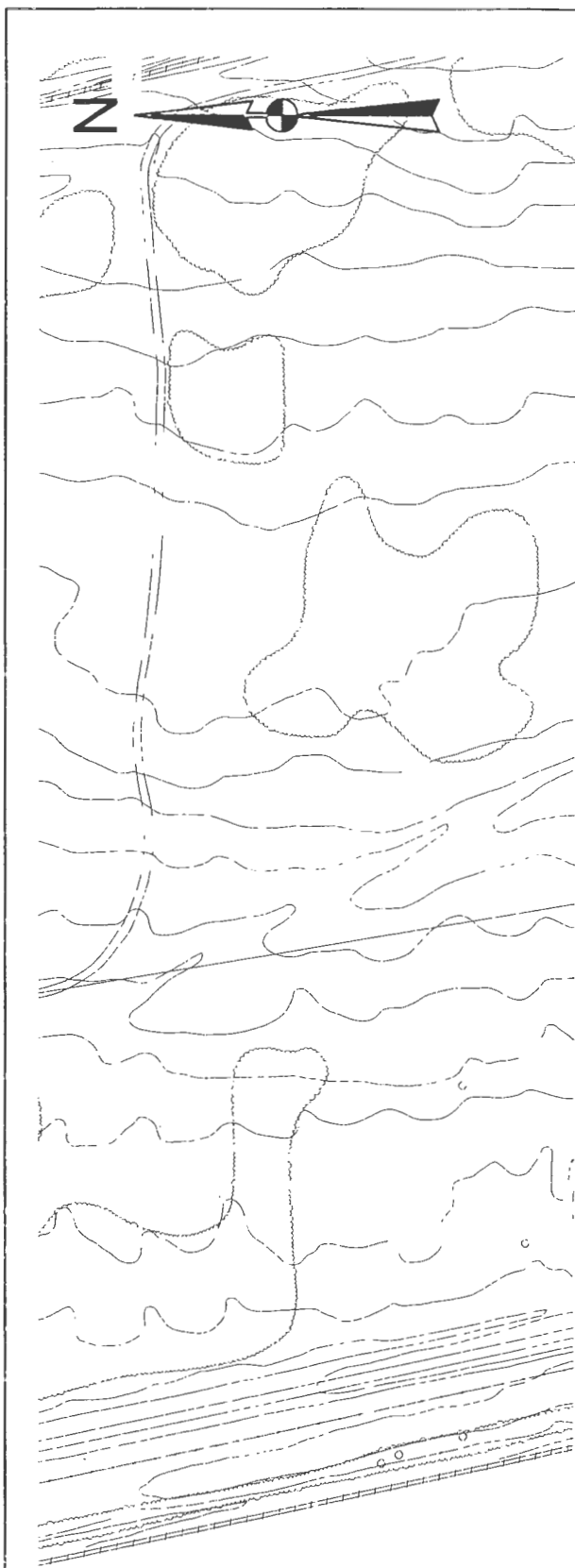
Seneca Army Depot

	Groundwater Standard ⁽¹⁾	Units	April-99	September-02	April-02	August-02
Trichloroethene						
MWT-3	5.0	ug/l	1.0 J	6.5	5.2	3.5
MWT-6	5.0	ug/l	ND	0.9	ND	0.53J
MWT-9	5.0	ug/l	43	28	100	140
Cis 1,2-Dichloroethene						
MWT-3	70	ug/l	27	26	28	20
MWT-6	70	ug/l	3.0	28	8.2	21
MWT-9	70	ug/l	32	160	82	170















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





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
-  GROUNDWATER ELEVATION (FT MSL)
-  640 GROUNDWATER ELEVATION CONTOUR (FT)

NOTES:

GROUNDWATER MEASUREMENTS
TAKEN IN AUGUST 2002

GROUNDWATER ELEVATIONS CONTOURS
BASED ON CONDITIONS AT THE TIME
OF MEASUREMENT. GROUNDWATER
CONDITONS AT OTHER TIMES
MAY VARY.



SCALE: 1" = 250'

PARSONS

SENECA ARMY DEPOT ACTIVITY

ASH LANDFILL
GROUNDWATER MONITORING
THIRD QUARTER 2002

ENVIRONMENTAL ENGINEERING

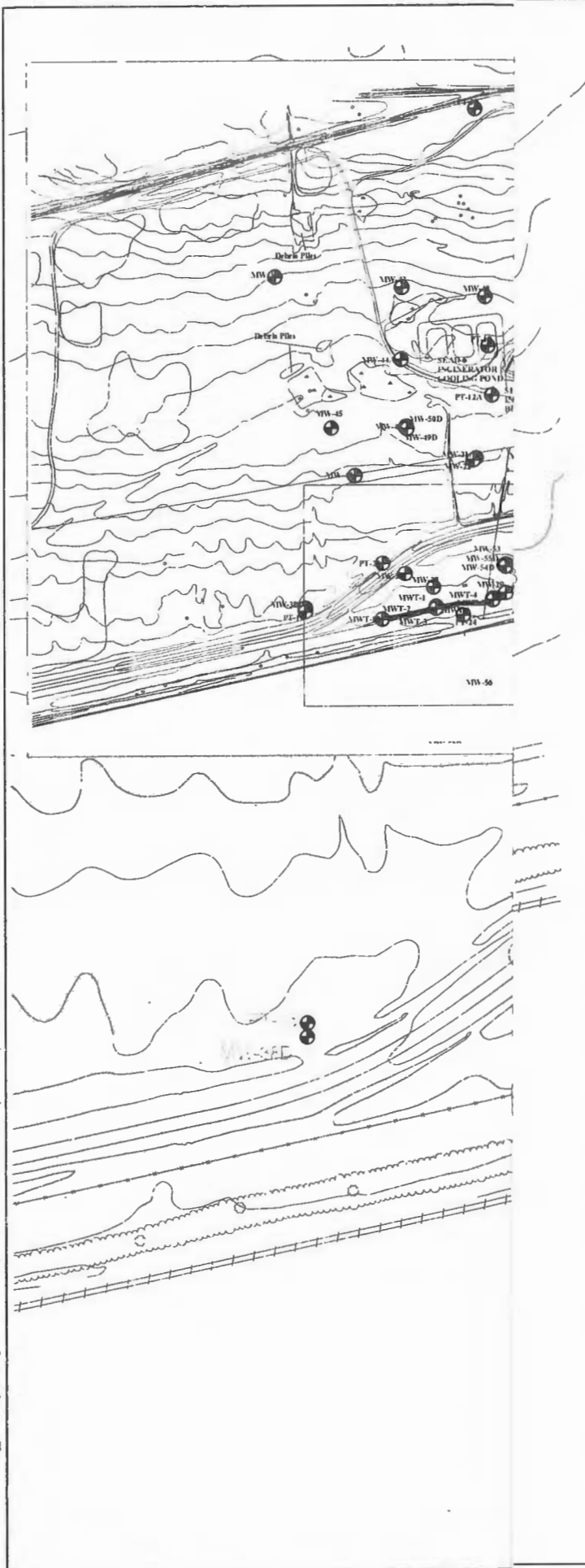
730769-01010

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

SCALE: 1 INCH = 250 FEET

November 2002

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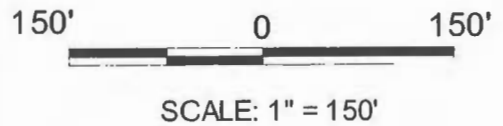


LEGEND

- 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 TRICHLOROETHYLENE (TCE) - ug/L
- DCE 1,2-DICHLOROETHYLENE (DCE) - ug/L
- ND NO DETECTION FOR TRICHLOROETHYLENE (TCE) - ug/L
- ND NO DETECTION DICHLOROETHYLENE (DCE) - ug/L
- PERMEABLE REACTIVE BARRIER

NOTES:
 GROUNDWATER SAMPLES COLLECTED FOLLOWING EPA REGION II LOW-FLOW SAMPLING PROTOCOL SAMPLES FOR GROUND WATER QUALITY ANALYSIS COLLECTED ON AUGUST 15 AND 16, 2002

GROUNDWATER ANALYTICAL DATA BASED ON CONDITIONS AT THE TIME OF SAMPLING. GROUNDWATER CONDITONS AT OTHER TIMES MAY VARY.



PARSONS

SENECA ARMY DEPOT ACTIVITY
 ASH LANDFILL
 GROUNDWATER MONITORING
 THIRD QUARTER 2002

ENVIRONMENTAL ENGINEERING 730769-01010

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

SCALE: 1 INCH = 150 FEET NOVEMBER 2002

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

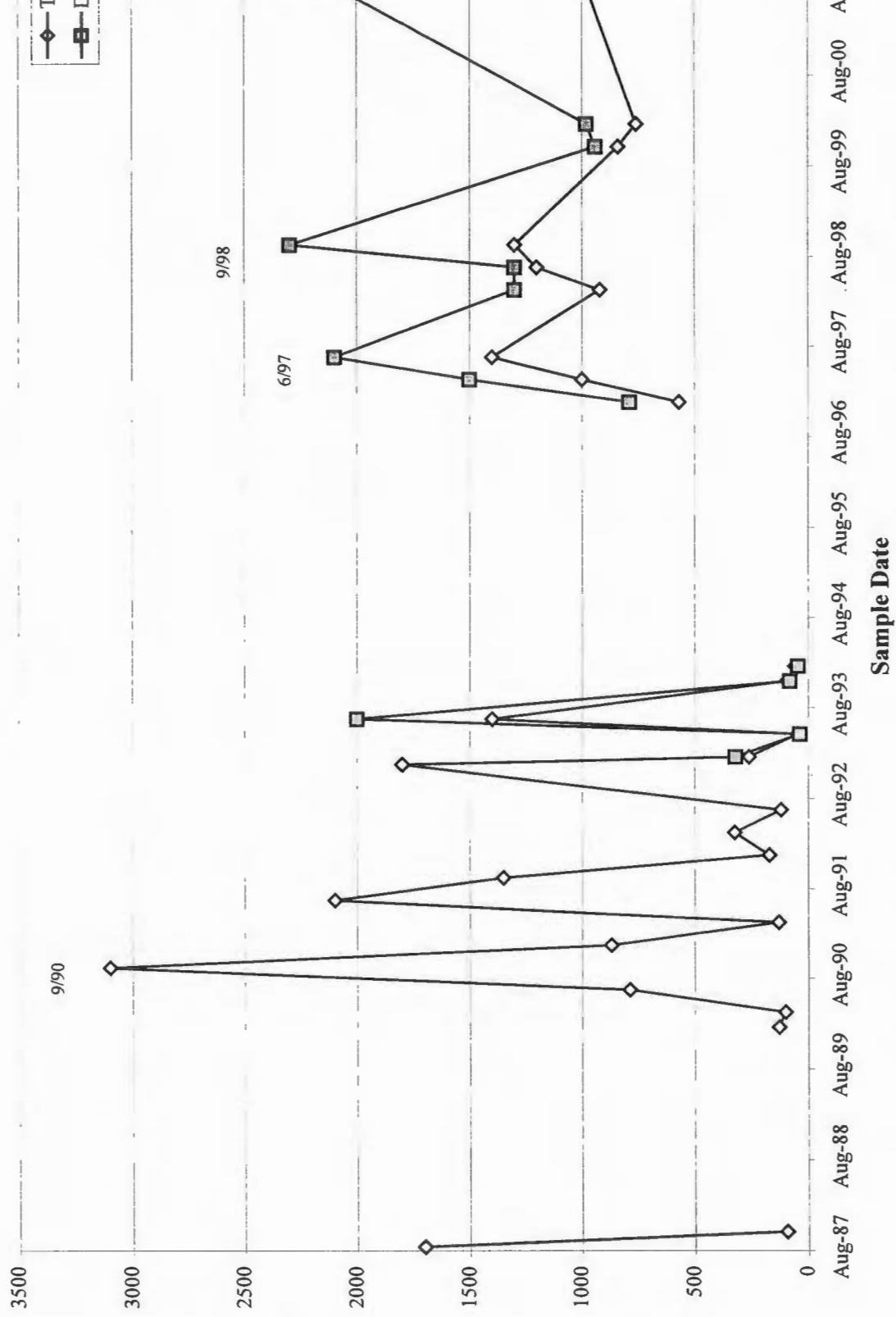
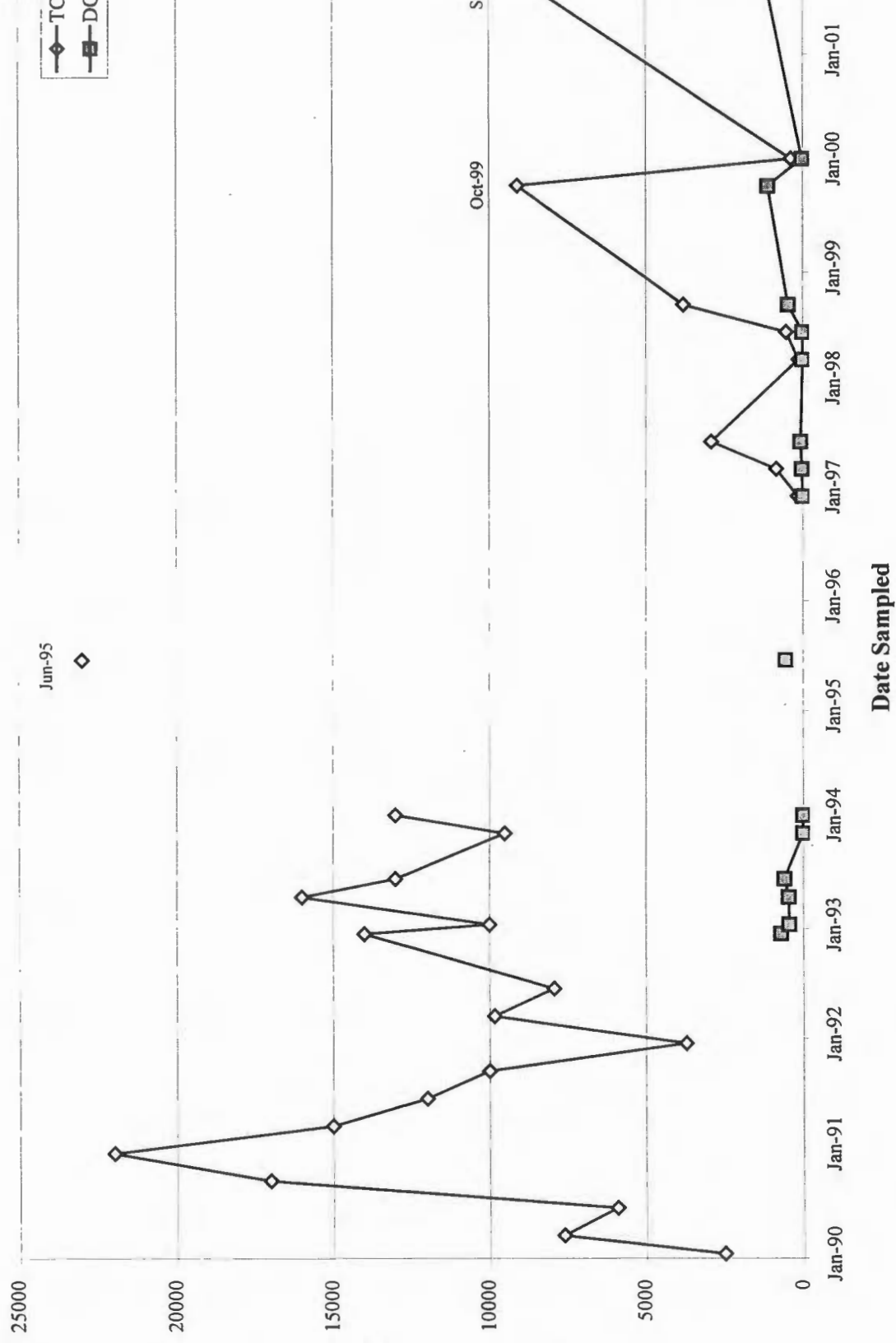




FIGURE 3-4
HISTORIC TCE AND DCE CONCENTRATIONS AT PT-18
GROUNDWATER MONITORING - ASH LANDFILL
SENECA ARMY DEPOT ACTIVITY



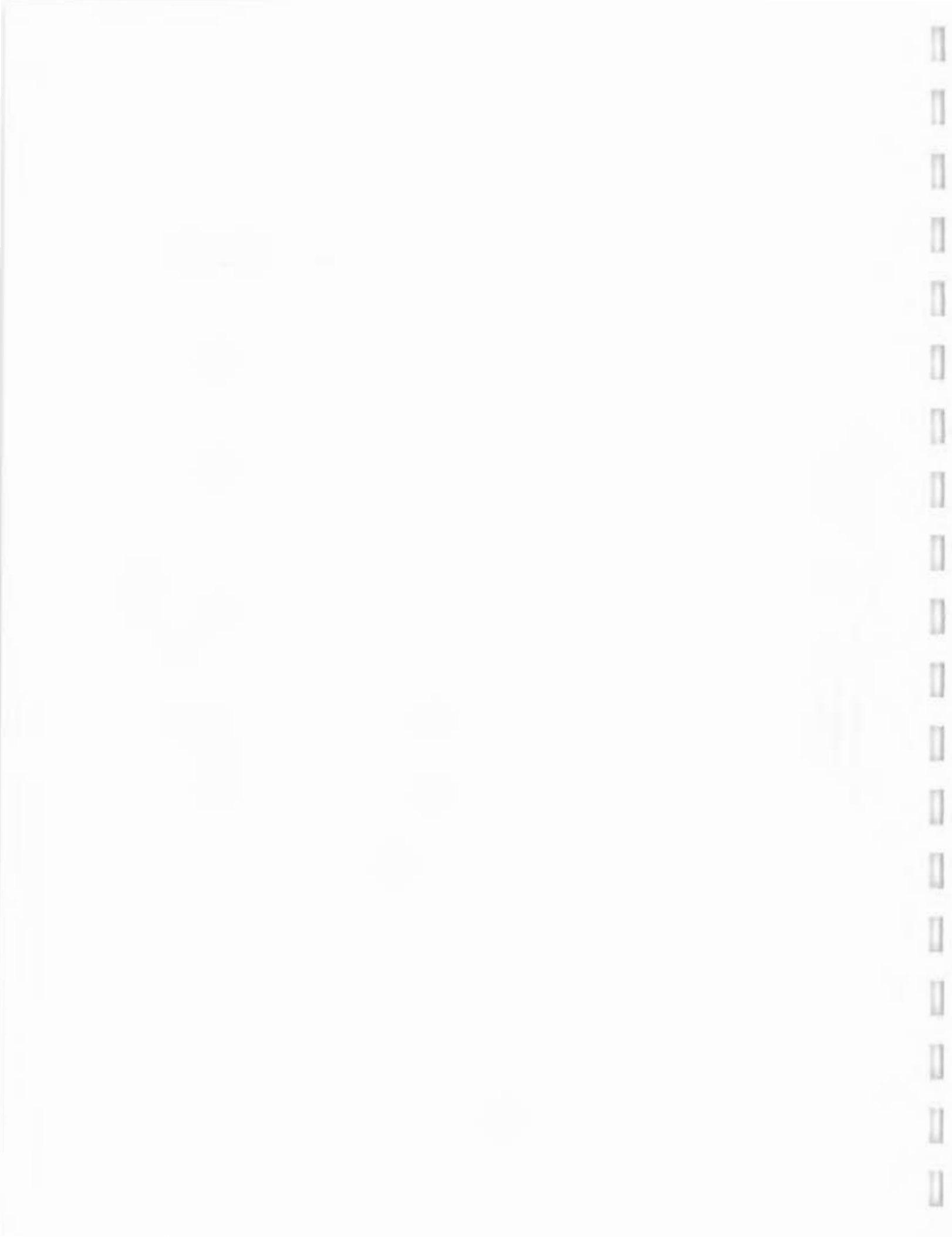
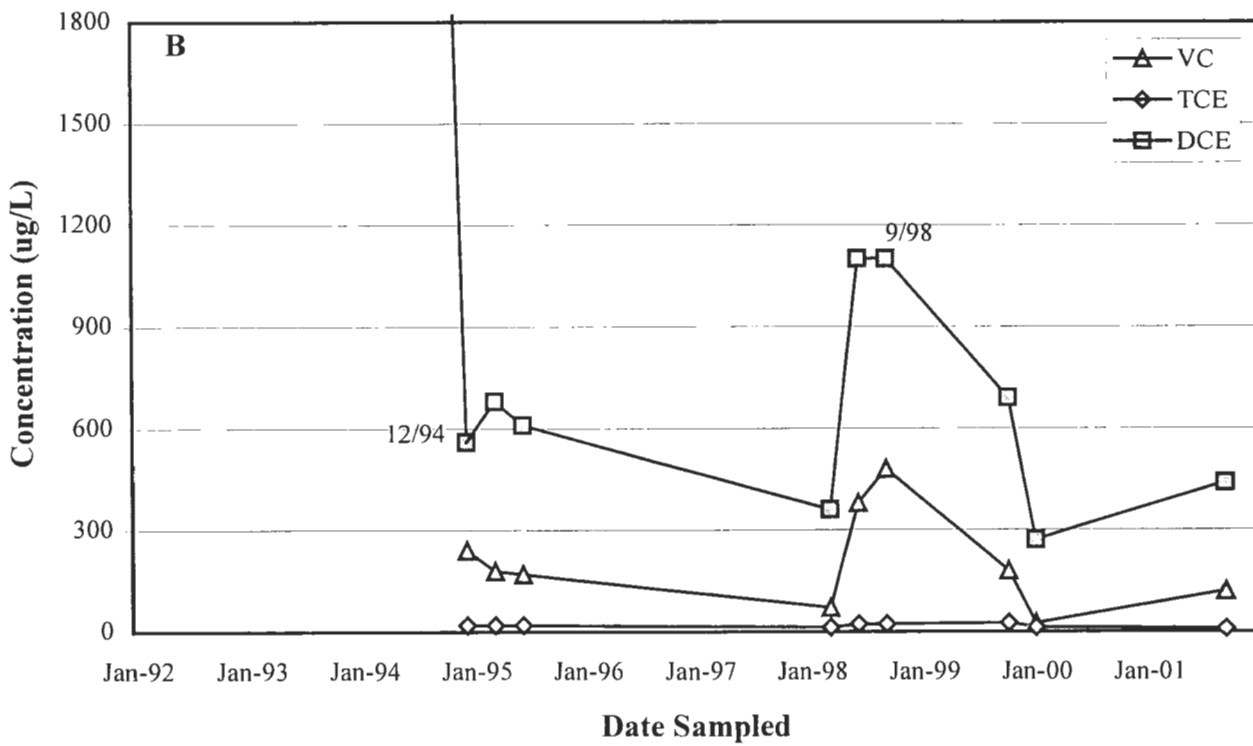
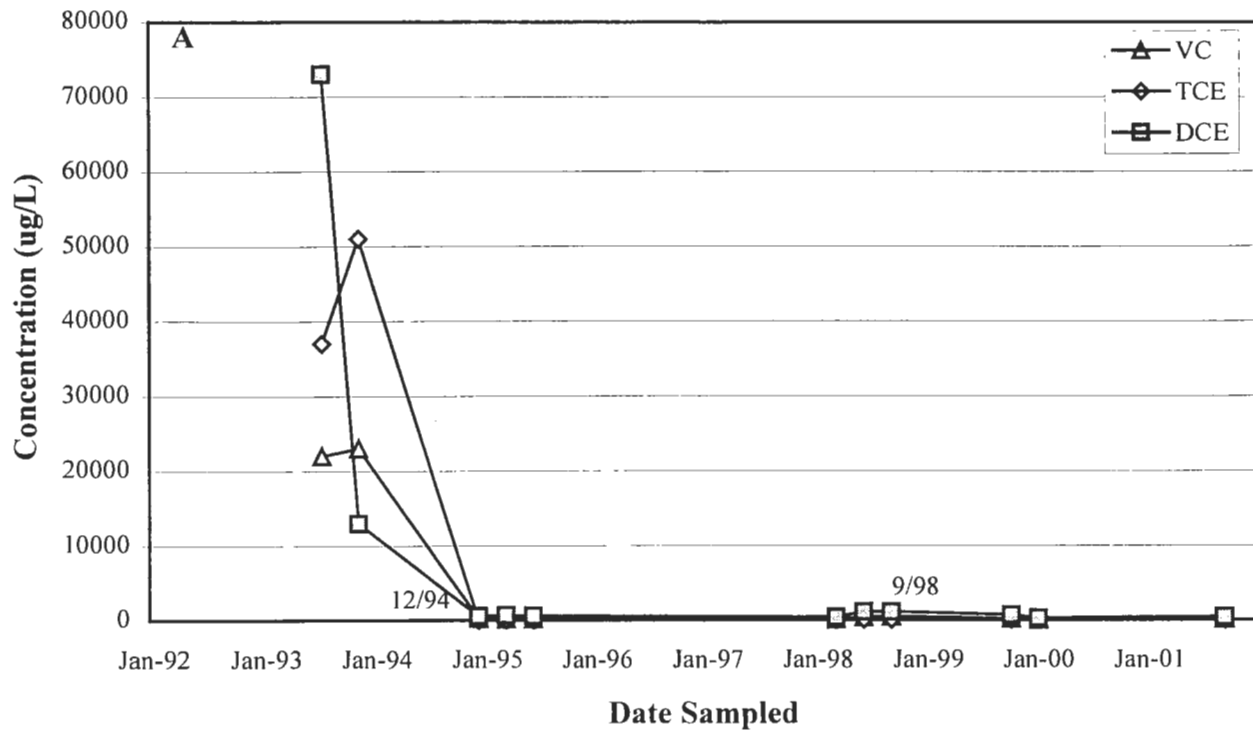


FIGURE 3-5
HISTORIC TCE, DCE, AND VINYL CHLORIDE CONCENTRATIONS AT MW -44A
GROUNDWATER MONITORING - ASH LANDFILL
SENECA ARMY DEPOT ACTIVITY



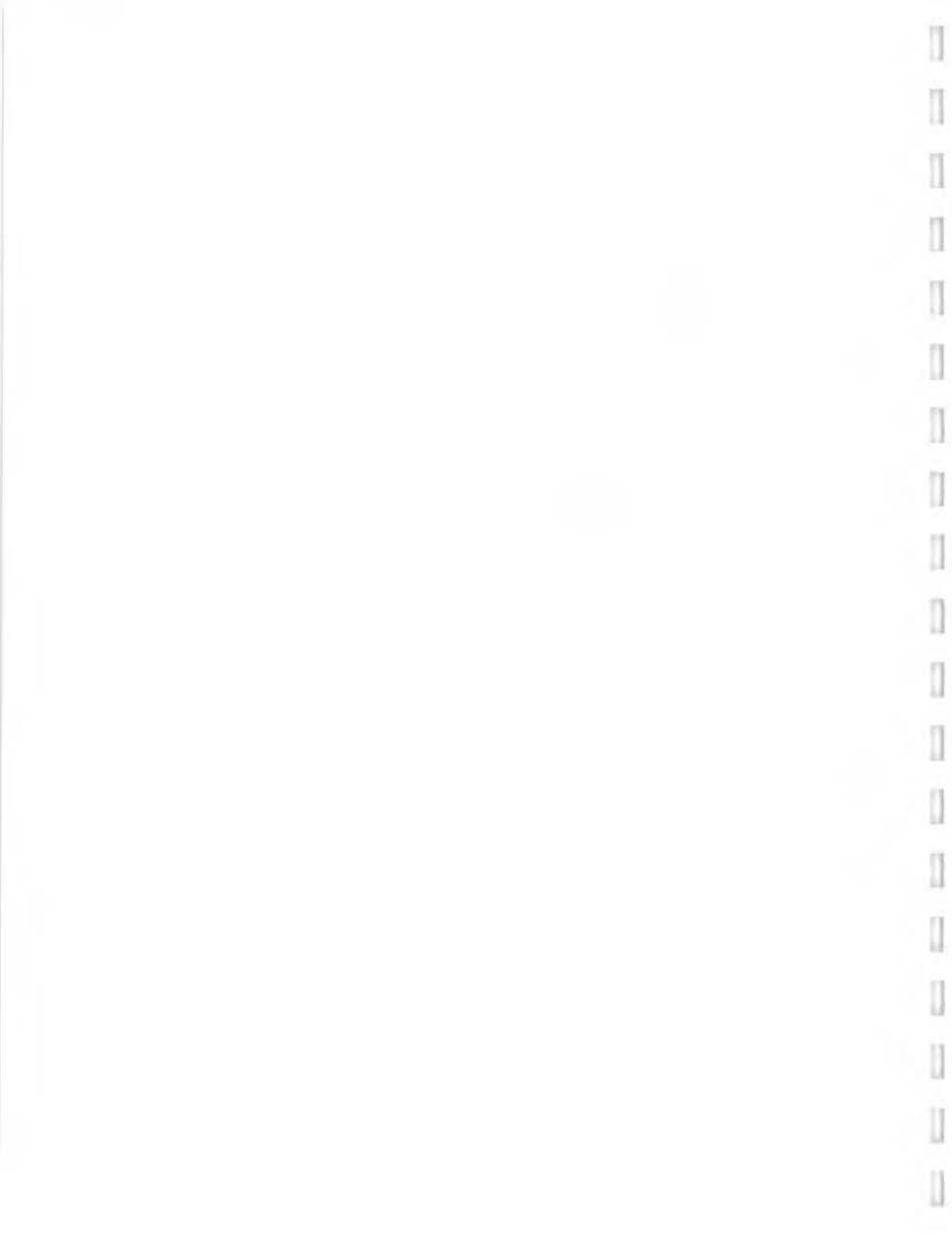


FIGURE 3-6
 HISTORIC TCE AND DCE CONCENTRATIONS AT MW-28
 GROUNDWATER MONITORING - ASH LANDFILL
 SENECA ARMY DEPOT ACTIVITY

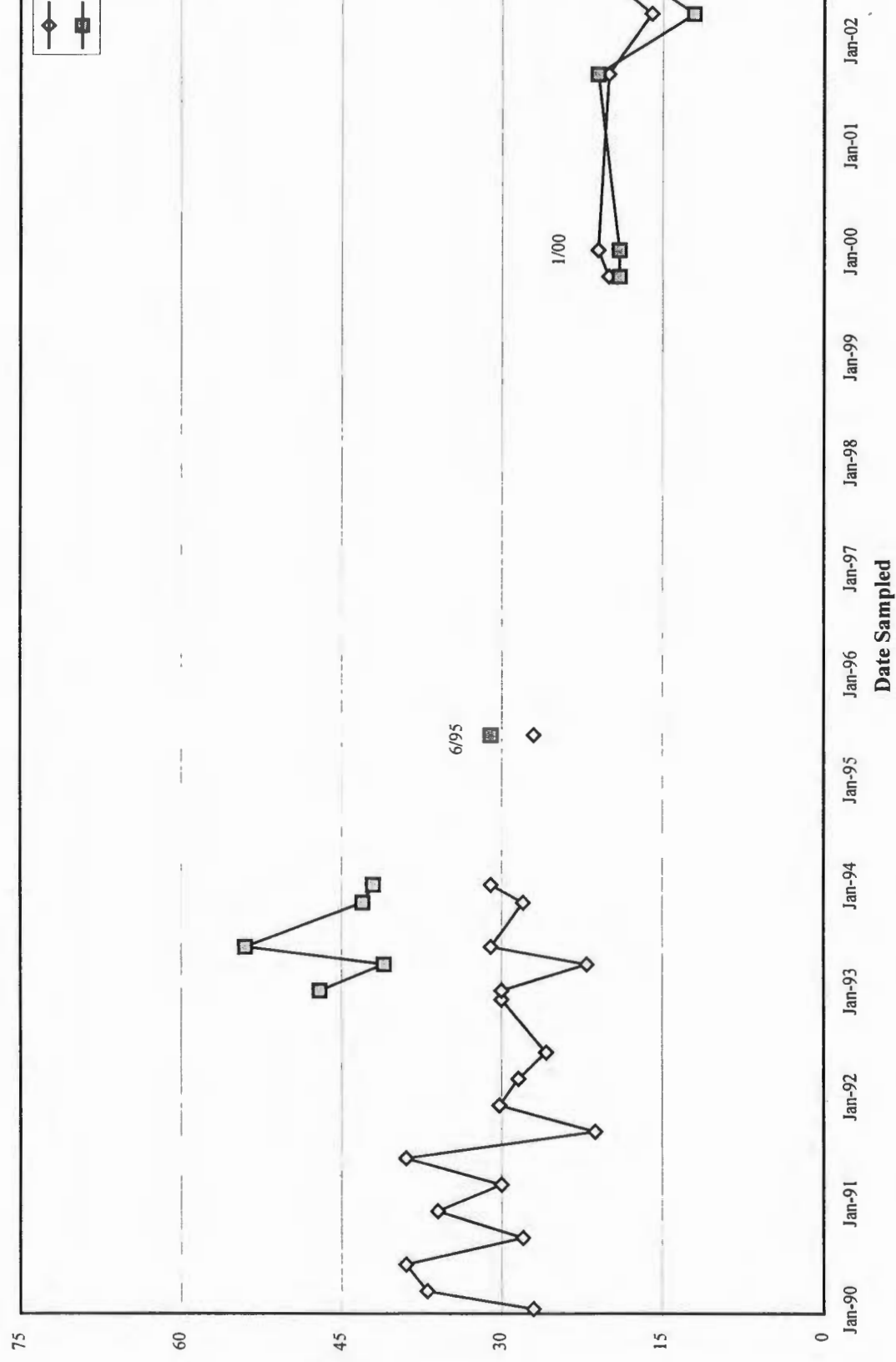
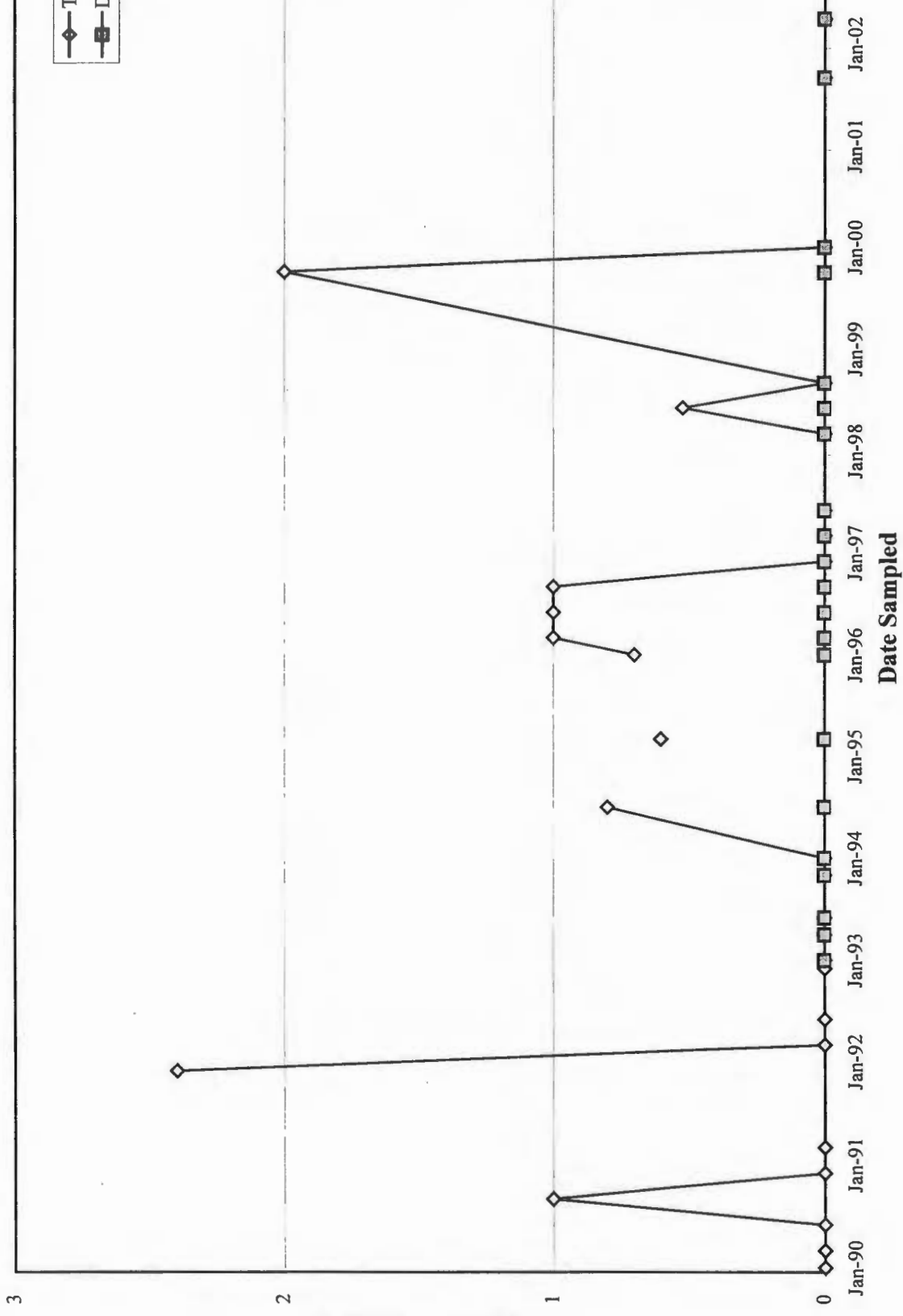




FIGURE 3-7
 HISTORIC TCE AND DCE CONCENTRATIONS AT MW-30
 GROUNDWATER MONITORING - ASH LANDFILL
 SENECA ARMY DEPOT ACTIVITY



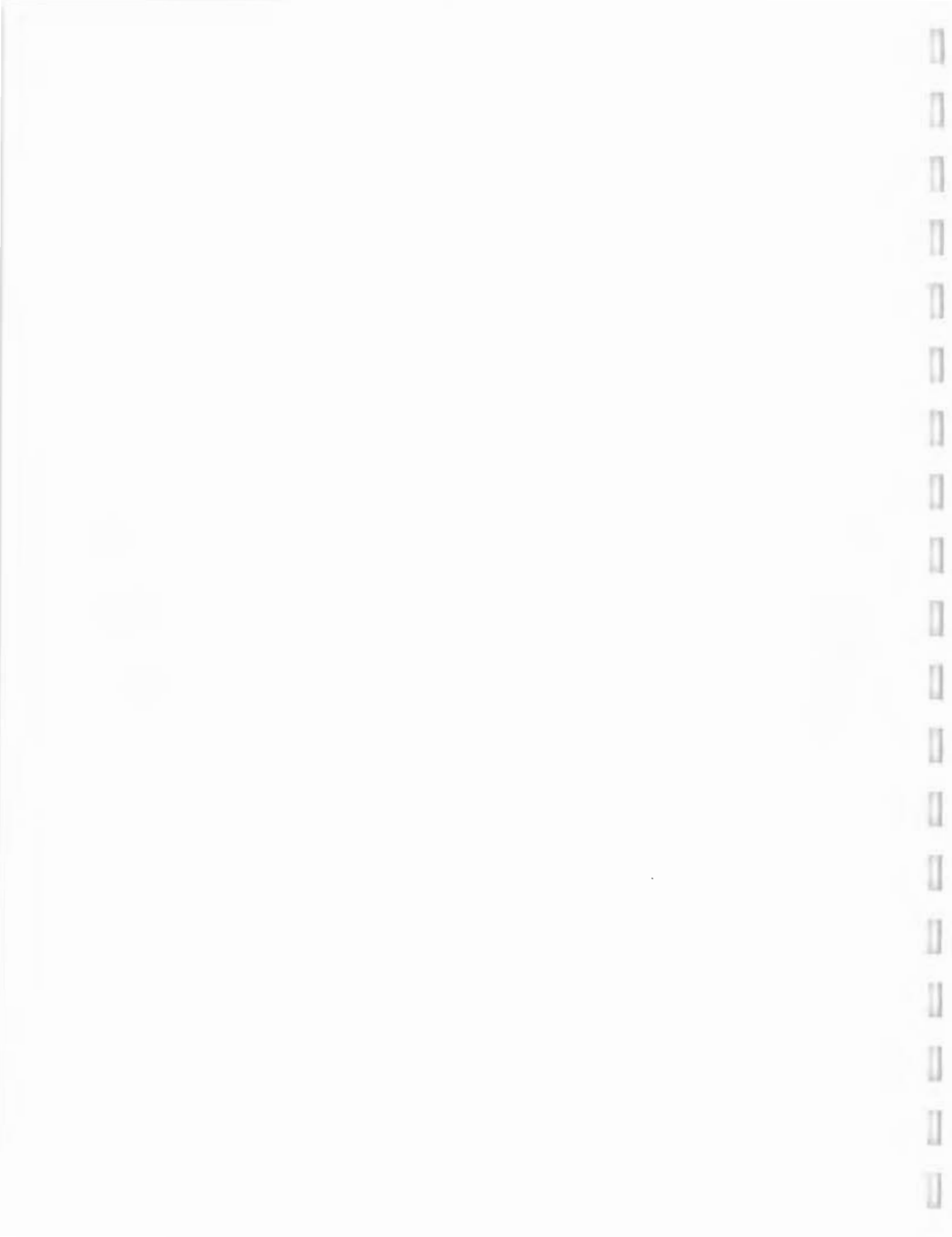
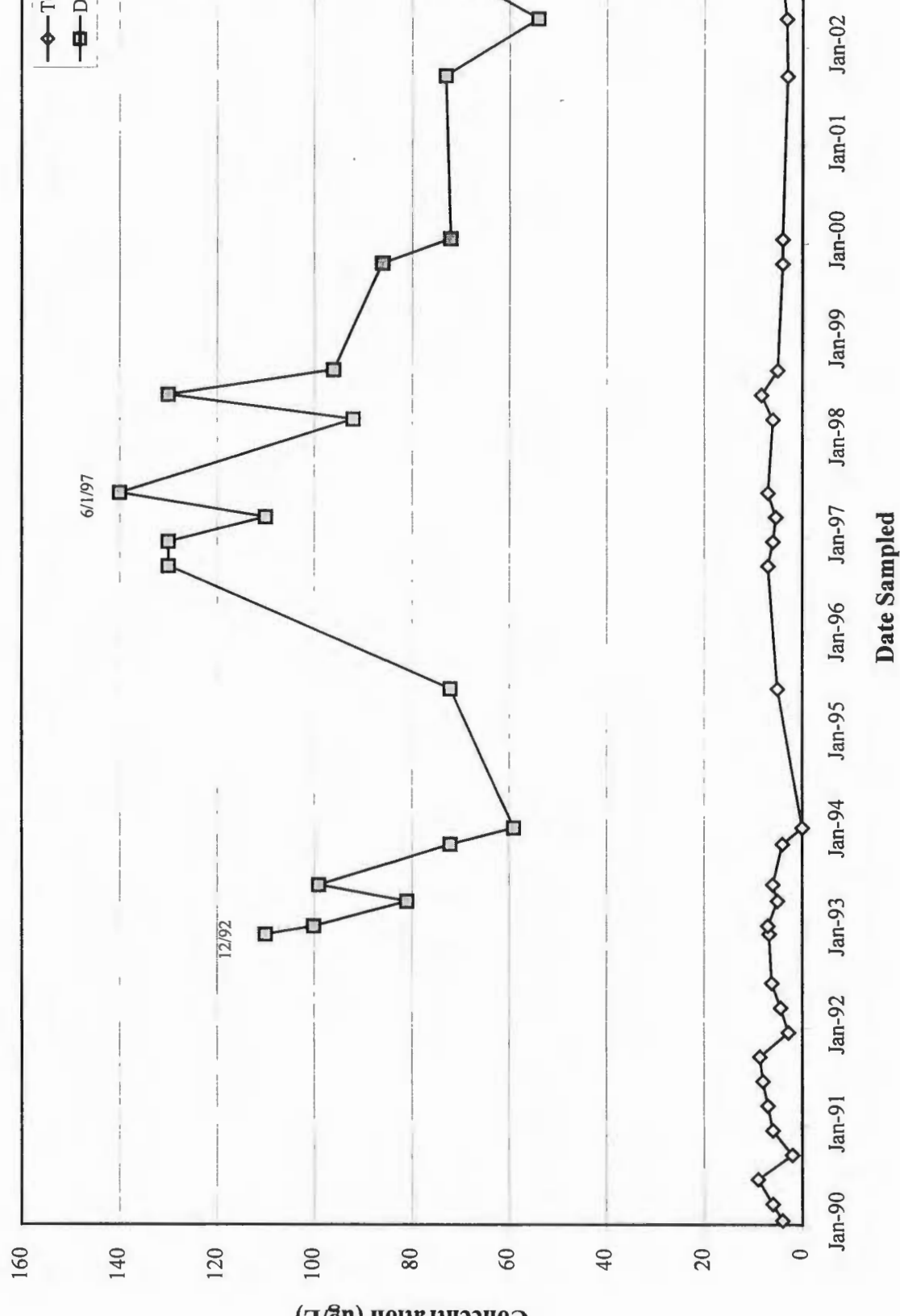
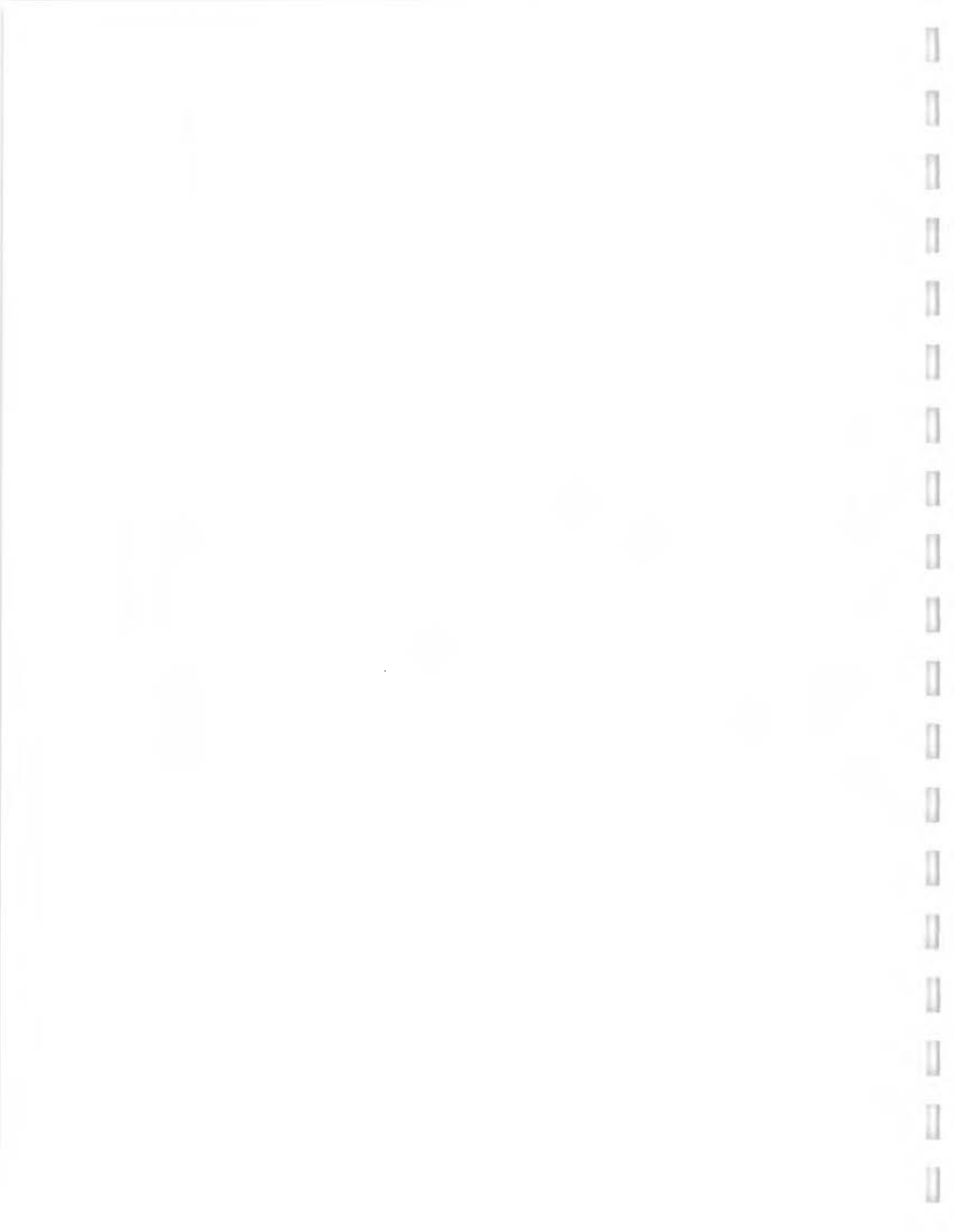













FIGURE 3-8
 HISTORIC TCE AND DCE CONCENTRATIONS AT PT-24
 GROUNDWATER MONITORING - ASH LANDFILL
 SENECA ARMY DEPOT ACTIVITY

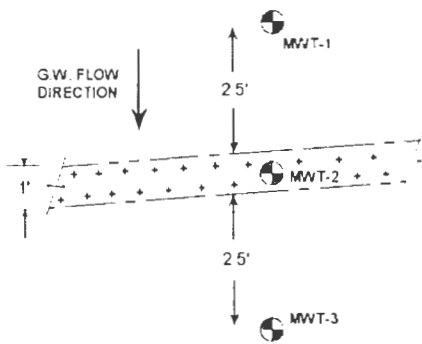




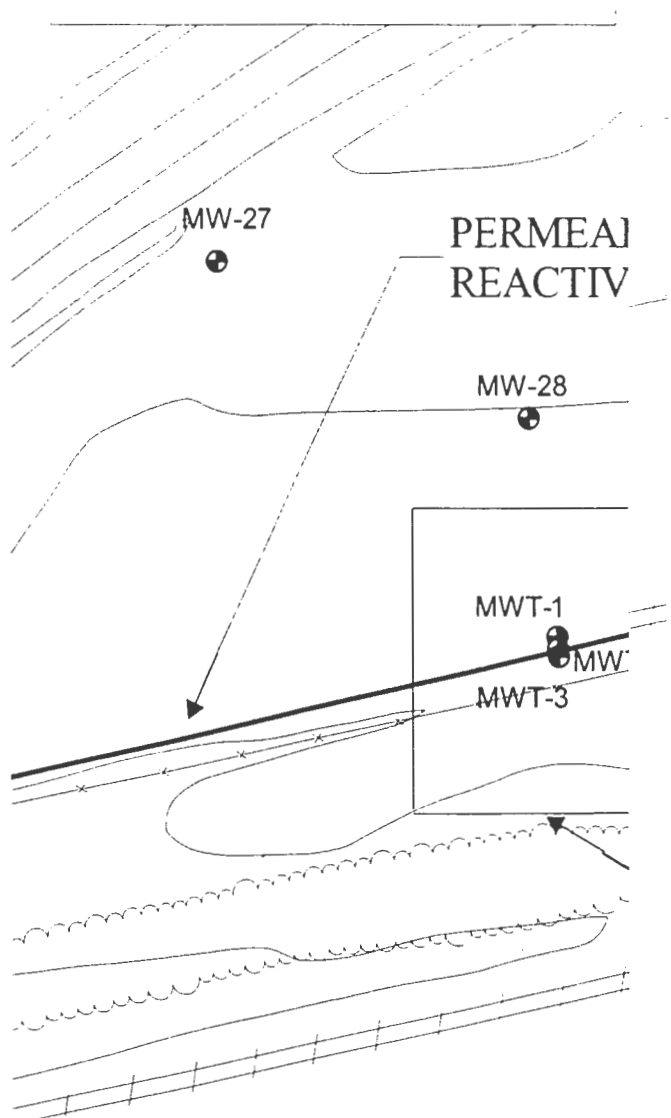
LEGEND

-  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-3
RAILROAD
-  8" WATER MAIN
-  CONTINUOUS REACTIVE WALL

DETAIL A



TYPICAL PLACEMENT OF WELLS
AROUND TRENCH SECTION
NOT TO SCALE



PARSONS

SENECA ARMY DEPOT ACTIVITY
ASH LANDFILL GROUNDWATER MONITORING

ENVIRONMENTAL ENGINEERING 730769-01 010

FIGURE 3-9

APPROXIMATE LOCATION OF WELLS
NEAR THE CONTINUOUS REACTIVE WALL

SCALE: 1 INCH = 60 FEET NOVEMBER 2002

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APPENDIX A

GROUNDWATER ELEVATION DATA

**A1. HISTORICAL GROUNDWATER ELEVATIONS
(1Q1995 TO PRESENT)**

A2. FIELD DATA SHEETS

A1. HISTORICAL GROUNDWATER ELEVATIONS
(1Q1995 TO PRESENT)

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

Monitoring Well	First Quarter 1995			Second Quarter 1995			Third Quarter 1995			Fourth Quarter 1995			First Quarter 1996		
	Top of Risers Elevation (ft)	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)
PT-10	681.52			10.4	06/05/1995	671.12	10.5	09/12/1995	671.02	1/1/96	8.22	673.3	03/14/1996	7.26	674.26
PT-11	658.22	03/16/1995	4.28	7.2	06/05/1995	651.02	8.39	09/12/1995	649.83	1/1/96	4.94	653.28	03/14/1996	4.44	653.78
PT-15	652.15			Destroyed	06/05/1995										
PT-16	637.76			8.2	06/05/1995	629.56	9.73	09/12/1995	628.03	1/1/96	4.94	632.82	03/14/1996	5.73	644.21
PT-17	637.51			4.68	06/05/1995	632.83	5.36	09/12/1995	632.15	1/1/96	3.18	634.33	03/14/1996	2.66	634.85
PT-18	640.14			7.87	06/05/1995	632.27	8.66	09/12/1995	631.48	1/1/96	6.16	633.98	03/14/1996	5.04	635.1
PT-19	645.26	03/17/1995	3.1	8.24	06/05/1995	648.44	8.81	09/12/1995	647.87	1/1/96	7.22	649.46	03/14/1996	7.08	649.6
MW-20	647.28			6.33	06/05/1995	638.93	7.57	09/12/1995	637.69	1/1/96	4.14	641.12	03/14/1996	2.62	642.64
MW-21A	647.73			7.69	06/05/1995	639.59	8.83	09/12/1995	638.45	1/1/96	6.89	640.39	03/14/1996	6.64	640.64
MW-22	648.61			Destroyed	06/05/1995										
PT-23	641.58			8.92	06/05/1995	639.69	9.74	09/12/1995	638.87	1/1/96	8.9	639.71	03/14/1996	8.66	639.95
PT-24	636.40			6.95	06/05/1995	634.63	7.94	09/12/1995	633.64	1/1/96	4.74	636.84	03/14/1996	4.17	637.41
PT-25	637.09			5.41	06/05/1995	630.99	5.64	09/12/1995	630.76	1/1/96	5.08	631.32	03/14/1996	4.48	631.92
PT-26	614.64			7.2	06/05/1995	629.89	9.84	09/12/1995	627.25	1/1/96	5.63	631.46	03/14/1996	4.04	633.05
MW-27	639.32	03/16/1995	5.13	6.85	06/05/1995	632.47	6.74	09/12/1995	632.58	1/1/96	6.04	633.28	03/14/1996	5.7	633.62
MW-28	637.21			5.93	06/05/1995	631.28	6.12	09/12/1995	631.09	1/1/96	5.66	631.55	03/14/1996	5.23	631.98
MW-29	637.31			7.38	06/05/1995	629.93	7.78	09/12/1995	629.53	1/1/96	6.68	630.63	03/14/1996	6.2	631.01
MW-30	640.32	03/17/1995	4.1	636.22	06/05/1995	630.21	10.42	09/12/1995	629.9	1/1/96	7.65	632.67	03/14/1996	5.88	634.44
MW-31	636.70			6.49	06/05/1995	630.99	8.7	09/12/1995	628.00	1/1/96	4.88	631.82	03/14/1996	3.38	633.32
MW-32	641.68			8	06/05/1995	633.68	8.9	09/12/1995	632.78	1/1/96	6.86	634.82	03/14/1996	4.96	636.23
MW-33	639.56			8.76	06/05/1995	630.8	9.62	09/12/1995	629.94	1/1/96	6.24	633.32	03/14/1996	4.46	634.6
MW-34	632.89			5.93	06/05/1995	626.96	8.9	09/12/1995	623.99	1/1/96	4.72	628.17	03/14/1996	3.16	629.73
MW-35D	631.82			4.15	06/05/1995	627.67	5.43	09/12/1995	626.39	1/1/96	2.89	628.93	03/14/1996	2.38	629.44
MW-36	631.79	03/16/1995	2.34	629.45	06/05/1995	627.43	5.94	09/12/1995	625.85	1/1/96	2.97	628.82	03/14/1996	2.32	629.47
MW-37	632.89	09/23/1901		4.36	06/05/1995	628.31	5.96	09/12/1995	626.93	1/1/96	3.32	629.57	03/14/1996	2.24	630.65
MW-38D	637.90	09/28/1901		5.23	06/05/1995	632.67	8.91	09/12/1995	628.99	1/1/96	3.88	634.02	03/14/1996	3.47	634.43
MW-39	659.54	10/20/1901		3.96	06/05/1995	655.58	5.27	09/12/1995	654.27	1/1/96	1.91	657.63	03/14/1996	Frozen	
MW-40	659.30	10/20/1901	3.61	655.69	06/05/1995	652.82	7.46	09/12/1995	651.84	1/1/96	4.44	654.86	03/14/1996	3.81	
MW-41D	694.02	11/24/1901		8.48	06/05/1995	685.54	8.76	09/12/1995	685.26	1/1/96	7.32	686.7	03/14/1996	7	687.02
MW-42D	683.04			5.97	06/05/1995	677.07	8.34	09/12/1995	674.70	1/1/96	4.02	679.02	03/14/1996	3.53	679.51
MW-43	657.73			4.72	06/05/1995	653.01	5.73	09/12/1995	652.00	1/1/96	Frozen	NA	03/14/1996	Frozen	
MW-44A	653.85			Destroyed	06/05/1995										
MW-45	650.90	03/17/1995	3.05	647.85	06/05/1995	645.64	6.34	09/12/1995	644.56	1/1/96	Frozen	NA	03/14/1996	Frozen	
MW-46	650.41			7.06	06/05/1995	643.35	7.96	09/12/1995	642.45	1/1/96	6.16	644.25	03/14/1996	5.72	644.69
MW-47	628.06	03/16/1995	2.84	625.22	06/05/1995	621.58	5.96	09/12/1995	622.10	1/1/96	Frozen	NA	03/14/1996	Frozen	
MW-48	648.32	03/17/1995	3.1	645.22	06/05/1995	643.4	6.86	09/12/1995	641.46	1/1/96	3.7	644.62	03/14/1996	5.71	644.79
MW-49D	650.30			7.1	06/05/1995	643.4	7.88	09/12/1995	642.62	1/1/96	6.09	644.41	03/14/1996	5.78	644.1
MW-50D	649.88			6.88	06/05/1995	643	7.69	09/12/1995	642.19	1/1/96	6.02	643.86	03/14/1996	2.78	625.46
MW-51D	628.24			6.63	06/05/1995	621.61	6.12	09/12/1995	622.12	1/1/96	3	623.35	03/14/1996	Frozen	
MW-52D	626.35			6.12	06/05/1995	620.23	5.68	09/12/1995	620.67	1/1/96	3	623.35	03/14/1996	6.98	632.43
MW-53	639.41			8.43	06/05/1995	630.96	8.94	09/12/1995	630.47	1/1/96	7.86	631.55	03/14/1996	6.97	632.14
MW-54D	639.11			8.3	06/05/1995	630.81	8.76	09/12/1995	630.35	1/1/96	7.66	631.45	03/14/1996	6.88	632.28
MW-55D	639.16			8.18	06/05/1995	630.98	8.62	09/12/1995	630.54	1/1/96	7.42	631.74	03/14/1996	6.88	632.28
MW-56	630.51	03/16/1995	2.95	627.56	06/05/1995	626.37	4.31	09/12/1995	626.20	1/1/96	Frozen	NA	03/14/1996	Frozen	
MW-57D	629.82			3.79	06/05/1995	626.03	3.7	09/12/1995	626.12	1/1/96	2.42	627.4	03/14/1996	1.91	627.91
MW-58D	629.69			3.6	06/05/1995	626.09	3.52	09/12/1995	626.17	1/1/96	2.2	627.49	03/14/1996	2.25	627.44

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

Monitoring Well	Top of Riser Elevation (ft)	First Quarter 1995			Second Quarter 1995			Third Quarter 1995			Fourth Quarter 1995			First Quarter 1996		
		Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f
MW-59	656.83	03/17/1995	1.9	654.93	06/05/1995	3.26	653.57	09/12/1995	4.38	652.25	1/1/1996	2.14	654.69	03/14/1996		
MW-60	660.15	03/17/1995	2.02	658.13	06/05/1995	3.83	656.32	09/12/1995	5.33	654.82	1/1/1996	2.34	657.81	03/14/1996		
MWT-1	637.24															
MWT-2	637.19															
MWT-3	637.31															
MWT-4	637.68															
MWT-5	637.72															
MWT-6	637.59															
MWT-7	638.34															
MWT-8	638.40															
MWT-9	638.08															
MWT-10	636.07															
MWT-11	635.90															

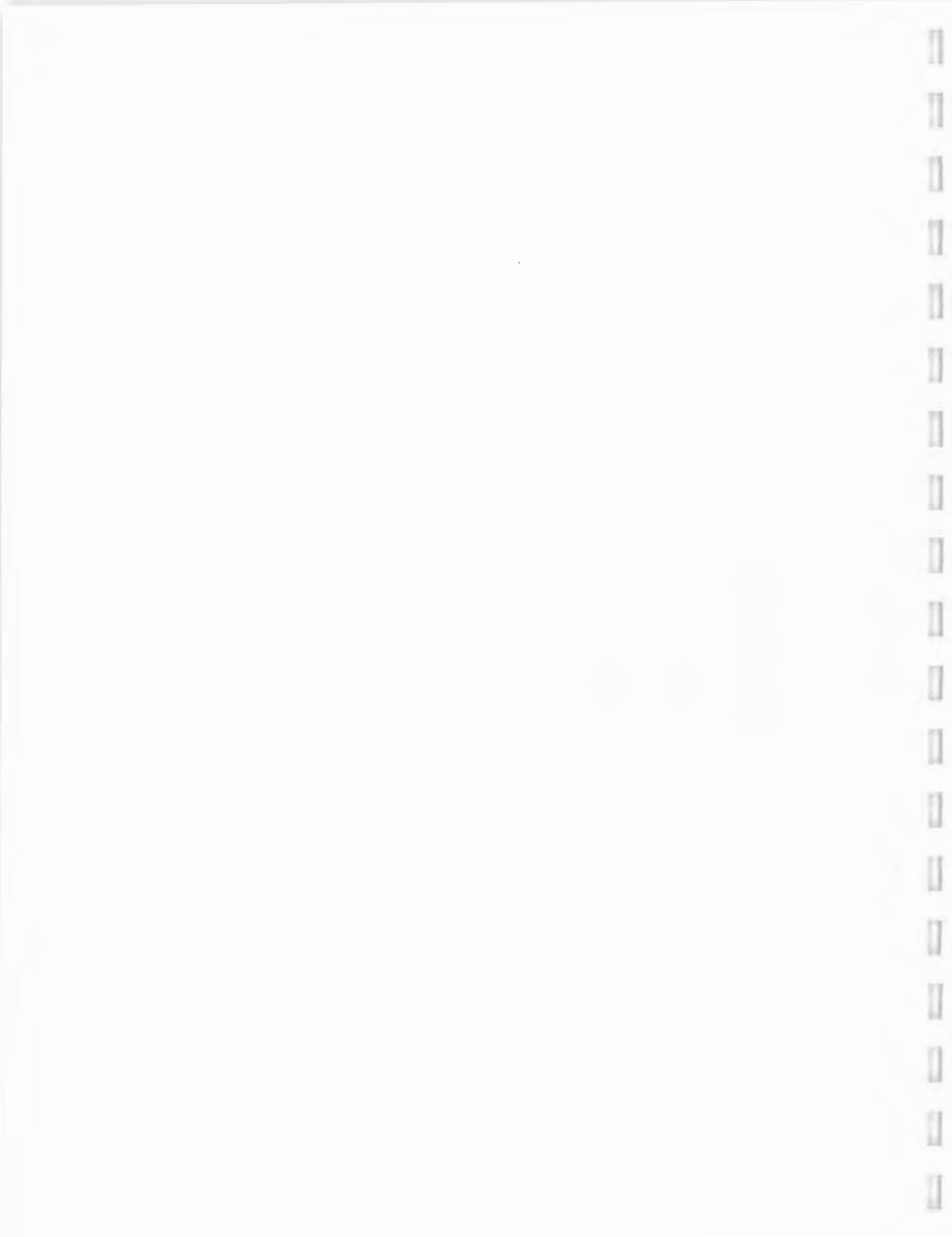


TABLE 3-1
GROUNDWATER ELEVATION DATA - SECOND QUARTER 2002
GROUNDWATER MONITORING - ASH LANDFILL
SENECA ARMY DEPOT ACTIVITY

Monitoring Point	Second Quarter 1996			Third Quarter 1996			Fourth Quarter 1996			First Quarter 1997			Second Quarter 1997			First Quarter		
	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f
10	06/20/1996	9.65	671.87	09/23/1996	6.62	674.9	01/06/1997	5.31	676.21	03/18/1997	5.3	676.22	06/17/1997	9.03	672.49	03/23/98	4.62	672.49
11	06/20/1996	6.54	651.68	09/23/1996	6.15	652.07	01/06/1997	4.19	654.03	03/18/1997	4.41	652.81	06/17/1997	6.23	651.99	03/23/98	4.24	651.99
12A	06/20/1996	7.88	644.27	09/23/1996	7.31	644.84	01/06/1997	4.25	647.9	03/18/1997	5.85	646.3	06/17/1997	7.53	644.62	03/23/98	3.14	644.62
15	06/20/1996	7.7	630.06	09/23/1996	8.04	629.72	01/06/1997	5.05	632.71	03/18/1997	4.59	633.17	06/17/1997	6.48	631.28	03/23/98	4.02	631.28
16	06/20/1996	3.2	634.31	09/23/1996	3.62	633.89	01/06/1997	3.02	634.49	03/18/1997	2.93	634.58	06/17/1997	4.05	633.46	03/23/98	2.8	633.46
17	06/20/1996	6.36	633.78	09/23/1996	4.99	635.15	01/06/1997	4.7	635.44	03/18/1997	4.75	635.39	06/17/1997	7.4	632.74	03/23/98	4.29	632.74
18	06/20/1996	7.4	649.28	09/23/1996	7.44	649.24	01/06/1997	4.97	651.71	03/18/1997	5.55	651.13	06/17/1997	7.09	649.59	03/23/98	4.4	649.59
19	06/20/1996	6.27	638.99	09/23/1996	6.34	638.92	01/06/1997	3.18	642.08	03/18/1997	3.34	641.92	06/17/1997	5.34	639.92	03/23/98	4.94	639.92
20	06/20/1996	6.89	640.39	09/23/1996	5.92	641.36	01/06/1997	5.74	641.54	03/18/1997	5.72	641.56	06/17/1997	7.21	640.07	03/23/98	4.94	640.07
21A	06/20/1996	8.47	639.26	09/23/1996	7.02	640.71	01/06/1997	6.09	641.64	03/18/1997	5.19	642.54	06/17/1997	8.21	639.52	03/23/98	3.89	639.52
22	06/20/1996	8.97	639.64	09/23/1996	Not Measured	Not Measured	01/06/1997	6.5	642.11	03/18/1997	6.63	641.98	06/17/1997	7.61	641	03/23/98	4.31	641
23	06/20/1996	7.4	649.28	09/23/1996	5.11	636.47	01/06/1997	3.44	638.14	03/18/1997	3.94	637.64	06/17/1997	6.37	635.21	03/23/98	3.66	635.21
24	06/20/1996	6.27	638.99	09/23/1996	4.8	631.6	01/06/1997	4.64	631.76	03/18/1997	4.69	631.71	06/17/1997	5.04	631.36	03/23/98	3.64	631.36
25	06/20/1996	6.54	630.55	09/23/1996	6.16	630.93	01/06/1997	3.96	633.13	03/18/1997	3.92	633.17	06/17/1997	5.96	631.13	03/23/98	3.58	631.13
26	06/20/1996	6.72	607.92	09/23/1996	Not Measured	Not Measured	01/06/1997	Not Measured	Not Measured	03/18/1997	Not Measured	Not Measured	06/17/1997	Not Measured	Not Measured	03/23/98	3.04	Not Measured
27	06/20/1996	6.58	632.74	09/23/1996	5.54	633.78	01/06/1997	5.21	634.11	03/18/1997	5.25	634.07	06/17/1997	6.48	632.84	03/23/98	4.44	632.84
28	06/20/1996	5.76	631.45	09/23/1996	5.35	631.86	01/06/1997	5.22	631.99	03/18/1997	5.18	632.03	06/17/1997	5.61	631.6	03/23/98	4.64	631.6
29	06/20/1996	6.96	630.35	09/23/1996	6.34	630.97	01/06/1997	6.14	631.17	03/18/1997	6.09	631.22	06/17/1997	6.65	630.66	03/23/98	6.1	630.66
30	06/20/1996	6.9	633.42	09/23/1996	7.17	633.42	01/06/1997	4.2	636.12	03/18/1997	4.33	635.99	06/17/1997	8.35	631.97	03/23/98	3.94	631.97
31	06/20/1996	5.86	630.84	09/23/1996	5.26	631.44	01/06/1997	2.92	633.78	03/18/1997	2.96	633.74	06/17/1997	5.3	631.4	03/23/98	2.48	631.4
32	06/20/1996	7.02	634.66	09/23/1996	7.42	634.26	01/06/1997	4.53	637.15	03/18/1997	4.95	636.73	06/17/1997	7.93	633.75	03/23/98	3.84	633.75
33	06/20/1996	8.05	631.51	09/23/1996	7.4	632.16	01/06/1997	4.29	635.27	03/18/1997	4.44	635.12	06/17/1997	7.45	632.11	03/23/98	3.91	632.11
34	06/20/1996	5.33	627.56	09/23/1996	4.99	627.9	01/06/1997	3.07	629.82	03/18/1997	3.22	629.67	06/17/1997	4.63	628.26	03/23/98	2.74	628.26
35D	06/20/1996	5.33	626.49	09/23/1996	Not Measured	Not Measured	01/06/1997	Not Measured	Not Measured	03/18/1997	Not Measured	Not Measured	06/17/1997	Not Measured	Not Measured	03/23/98	2.6	Not Measured
36	06/20/1996	3.00	628.79	09/23/1996	3.30	628.49	01/06/1997	3.30	628.49	03/18/1997	2.46	629.33	06/17/1997	3.58	628.21	03/23/98	2.6	628.21
37	06/20/1996	3.4	629.49	09/23/1996	4.34	628.55	01/06/1997	2.48	630.41	03/18/1997	2.59	630.3	06/17/1997	Not Measured	Not Measured	03/23/98	2.51	Not Measured
38D	06/20/1996	4.09	633.81	09/23/1996	4.26	633.64	01/06/1997	3.7	634.2	03/18/1997	3.61	634.29	06/17/1997	Not Measured	Not Measured	03/23/98	3.48	Not Measured
39	06/20/1996	1.82	Frozen	09/23/1996	2.16	657.38	01/06/1997	2.06	657.48	03/18/1997	1.78	657.76	06/17/1997	2.09	657.45	03/23/98	1.7	657.45
40	06/20/1996	6.2	653.1	09/23/1996	4.78	654.52	01/06/1997	3.64	655.66	03/18/1997	3.64	655.66	06/17/1997	5.78	655.52	03/23/98	3.45	655.52
41D	06/20/1996	8.16	685.86	09/23/1996	7.82	686.2	01/06/1997	6.1	687.92	03/18/1997	6.45	687.57	06/17/1997	Not Measured	Not Measured	03/23/98	8.12	Not Measured
42D	06/20/1996	5.54	677.5	09/23/1996	4.79	678.25	01/06/1997	4.79	678.25	03/18/1997	2.61	680.43	06/17/1997	4.73	678.31	03/23/98	2.37	678.31
43	06/20/1996	3.03	654.7	09/23/1996	3.16	654.57	01/06/1997	2.9	654.83	03/18/1997	3.84	653.89	06/17/1997	3.72	654.01	03/23/98	2.6	654.01
44A	06/20/1996	8.05	645.8	09/23/1996	9.66	644.19	01/06/1997	3.74	650.11	03/18/1997	4.7	649.15	06/17/1997	6.9	646.95	03/23/98	3.48	646.95
45	06/20/1996	3.47	647.43	09/23/1996	3.23	647.67	01/06/1997	2.94	647.96	03/18/1997	2.83	648.07	06/17/1997	3.9	647	03/23/98	2.85	647
46	06/20/1996	5.75	644.66	09/23/1996	5.94	644.47	01/06/1997	3.72	646.69	03/18/1997	4.51	645.9	06/17/1997	6.06	644.35	03/23/98	2.88	644.35
47	06/20/1996	3.6	624.46	09/23/1996	4.34	623.72	01/06/1997	2.88	625.18	03/18/1997	2.88	625.18	06/17/1997	4.22	623.84	03/23/98	2.3	623.84
48	06/20/1996	4.77	643.55	09/23/1996	3.72	644.6	01/06/1997	3.26	645.06	03/18/1997	3.31	645.01	06/17/1997	5.3	643.02	03/23/98	2.86	643.02
49D	06/20/1996	5.87	644.63	09/23/1996	5.9	644.6	01/06/1997	3.6	646.9	03/18/1997	4.32	646.18	06/17/1997	5.91	644.59	03/23/98	2.88	644.59
50D	06/20/1996	6.2	643.68	09/23/1996	5.71	644.17	01/06/1997	3.6	646.28	03/18/1997	4.09	645.79	06/17/1997	5.88	644	03/23/98	2.48	644
51D	06/20/1996	3.7	624.54	09/23/1996	4.42	623.82	01/06/1997	2.99	625.25	03/18/1997	3	625.24	06/17/1997	4.35	623.89	03/23/98	2.35	623.89
52D	06/20/1996	3.66	622.69	09/23/1996	4.03	622.32	01/06/1997	2.38	623.97	03/18/1997	2.6	623.75	06/17/1997	3.62	622.73	03/23/98	2.3	622.73
53	06/20/1996	8.28	631.13	09/23/1996	7.02	632.39	01/06/1997	6.6	632.81	03/18/1997	6.6	632.81	06/17/1997	7.7	631.71	03/23/98	5.78	631.71
54D	06/20/1996	8.08	631.03	09/23/1996	6.92	632.19	01/06/1997	6.55	632.56	03/18/1997	6.36	632.55	06/17/1997	7.69	631.42	03/23/98	5.92	631.42
55D	06/20/1996	7.91	631.25	09/23/1996	6.78	632.38	01/06/1997	6.34	632.82	03/18/1997	6.36	632.8	06/17/1997	7.47	631.69	03/23/98	5.86	631.69
56	06/20/1996	3.01	627.5	09/23/1996	3.2	627.31	01/06/1997	3.09	627.42	03/18/1997	3.05	627.46	06/17/1997	3.48	627.03	03/23/98	3.13	627.03
57D	06/20/1996	2.2	627.62	09/23/1996	2.29	627.53	01/06/1997	1.82	628	03/18/1997	1.95	627.87	06/17/1997	2.76	627.06	03/23/98	1.69	627.06
58D	06/20/1996	2.09	627.6	09/23/1996	2.06	627.63	01/06/1997	1.51	628.18	03/18/1997	1.73	627.96	06/17/1997	2.56	627.13	03/23/98	1.32	627.13



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

Monitoring Well	Second Quarter 1996			Third Quarter 1996			Fourth Quarter 1996			First Quarter 1997			Second Quarter 1997			First Quarter			
	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	
T-59	06/20/1996	1.91	654.92	09/23/1996	2.69	654.14	01/06/1997	2.1	654.73	03/18/1997	2.16	654.67	06/17/1997	2.15	654.68	03/23/98	2.13		
T-60	06/20/1996	2.58	Frozen	09/23/1996	2.46	657.69	01/06/1997	1.97	658.18	03/18/1997	2.14	658.01	06/17/1997	2.98	657.17	03/23/98	1.95		
T-1																			
T-2																			
T-3																			
T-4																			
T-5																			
T-6																			
T-7																			
T-8																			
T-9																			
T-10																			
T-11																			

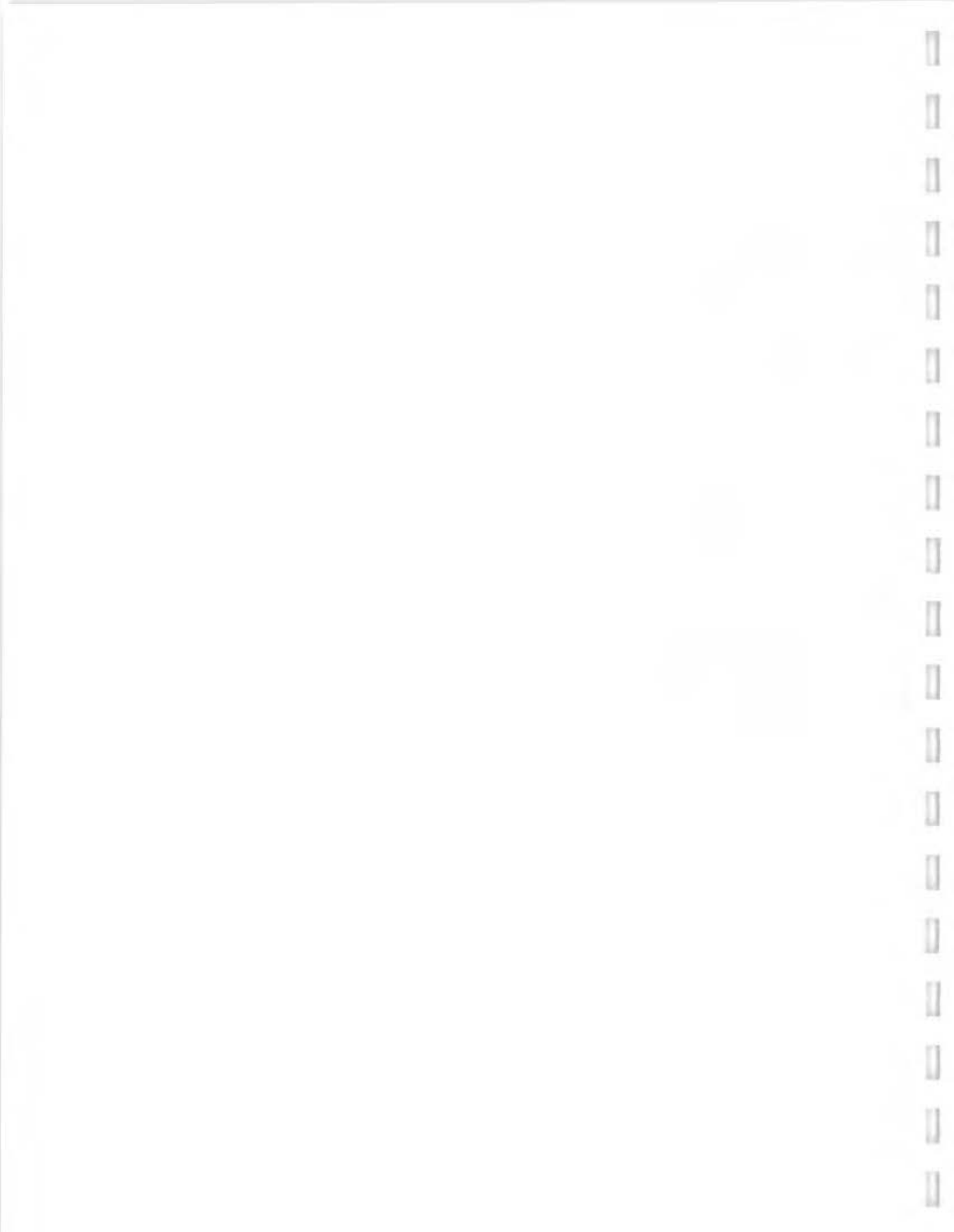


TABLE 3-1
GROUNDWATER ELEVATION DATA - SECOND QUARTER 2002
GROUNDWATER MONITORING - ASH LANDFILL
SENECA ARMY DEPOT ACTIVITY

Top of Risers Elevation (ft)	Second Quarter 1998			Third Quarter 1998			Measured on 10/7/99			Measured on 10/27/99			Round 2 (1/3/00)			3Q 2001 Data		
	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	of Riser (ft.)	ater Level (f	Date	Saturated Thickness (ft)	
681.52	06/16/98	6.3	675.22	09/18/98	10.29	671.23	10/07/1999	8.10	673.42	10/27/1999	9.26	672.26	01/03/2000	6.84	674.68	NA	NA	
658.22	06/16/98	4.43	653.79	09/18/98	9.57	648.65	10/07/1999	10.03	648.19	10/27/1999	9.39	648.83	01/03/2000	5.36	632.86	08/27/2001	9.12	
652.15	06/16/98	5.25	646.9	09/18/98	9.29	642.86	10/07/1999	7.00	645.15	10/27/1999	7.60	644.55	01/03/2000	6.62	645.53	08/27/2001	3.49	
637.76	06/16/98	7.14	630.62	09/18/98	9.82	627.94	10/07/1999	10.36	627.4	10/27/1999		DRY	01/03/2000	6.04	631.72	08/27/2001	9.12	
637.51	06/16/98	3.8	633.71	09/18/98	6.52	630.99	10/07/1999	7.20	630.31	10/27/1999	6.64	630.87	01/03/2000	3.10	634.41	08/27/2001	3.36	
640.14	06/16/98	4.97	633.17	09/18/98	9.96	630.18	10/07/1999	7.26	632.88	10/27/1999	7.90	632.24	01/03/2000	5.08	635.06	08/27/2001	0.56	
656.68	06/16/98	6.34	650.34	09/18/98	9.06	647.62	10/07/1999	9.40	647.28	10/27/1999	8.23	648.45	01/03/2000	6.34	650.34	08/27/2001	1.32	
645.26	06/16/98	4.9	640.36	09/18/98	7.83	637.43	10/07/1999	7.33	637.93	10/27/1999	7.22	638.04	01/03/2000	3.94	641.32	08/27/2001	3.01	
647.28	06/16/98	5.69	641.59	09/18/98	9.87	637.41	10/07/1999	7.58	639.7	10/27/1999	7.60	639.68	01/03/2000	6.76	640.52	08/27/2001	0.00	
647.73	06/16/98	6.46	641.27	09/18/98	9.79	637.94	10/07/1999	9.12	638.61	10/27/1999	8.14	639.59	01/03/2000	7.08	640.65	08/27/2001	8.95	
648.61	06/16/98	6.96	641.65	09/18/98	10.35	638.26	10/07/1999	9.80	638.81	10/27/1999	8.65	639.96	01/03/2000	7.54	641.07	08/27/2001	0.71	
641.58	06/16/98	4.02	637.56	09/18/98	8.47	633.11	10/07/1999	7.92	633.66	10/27/1999	7.76	633.82	01/03/2000	4.10	637.48	08/27/2001	2.85	
636.40	06/16/98	4.69	631.71	09/18/98	7.1	629.3	10/07/1999	7.44	628.96	10/27/1999	6.12	630.28	01/03/2000	4.88	631.52	08/27/2001	3.47	
637.09	06/16/98	4.48	632.61	09/18/98	11.35	625.74	10/07/1999	8.92	628.17	10/27/1999	8.31	628.78	01/03/2000	5.26	631.83	08/27/2001	0.00	
614.64	06/16/98	Not Measured	10.54	604.1	10/07/1999	13.11	601.53	10/27/1999	12.16	602.48	10/27/1999	12.16	602.48	01/03/2000	6.88	607.76	NA	NA
639.32	06/16/98	5.36	633.96	09/18/98	7.67	631.65	10/07/1999	5.92	633.4	10/27/1999	6.64	632.68	01/03/2000	5.46	633.86	08/27/2001	1.31	
637.21	06/16/98	5.14	632.07	09/18/98	7.46	629.75	10/07/1999	7.44	629.77	10/27/1999	6.36	630.85	01/03/2000	5.16	632.05	08/27/2001	1.89	
637.31	06/16/98	6.39	630.92	09/18/98	9.9	627.41	10/07/1999	10.01	627.3	10/27/1999	8.00	629.31	01/03/2000	6.34	630.97	08/27/2001	0.00	
640.32	06/16/98	5.32	635	09/18/98	10.44	629.88	10/07/1999	8.94	631.38	10/27/1999	9.30	631.02	01/03/2000	6.76	633.56	08/27/2001	0.00	
636.70	06/16/98	6.23	633.08	09/18/98	9.68	627.02	10/07/1999	7.91	628.79	10/27/1999	7.29	629.41	01/03/2000	4.48	632.22	08/27/2001	0.00	
639.56	06/16/98	6.23	633.45	09/18/98	8.98	632.7	10/07/1999	7.55	634.13	10/27/1999	8.30	633.38	01/03/2000	6.16	635.52	08/27/2001	0.00	
632.89	06/16/98	6.17	633.39	09/18/98	9.84	629.72	10/07/1999	8.74	630.82	10/27/1999	9.50	630.06	01/03/2000	6.04	633.52	08/27/2001	0.00	
631.82	06/16/98	2.4	629.22	09/18/98	10.53	622.36	10/07/1999	10.42	622.47	10/27/1999	9.10	623.79	01/03/2000	4.64	638.25	NA	NA	
631.79	06/16/98	2.57	629.22	09/18/98	7.2	624.62	10/07/1999	6.86	624.96	10/27/1999	5.20	626.62	01/03/2000	2.76	629.06	NA	NA	
632.89	06/16/98	2.75	630.38	09/18/98	7.81	623.98	10/07/1999	7.57	624.22	10/27/1999	5.63	626.16	01/03/2000	2.94	628.85	08/27/2001	7.05	
637.90	06/16/98	3.65	633.39	09/18/98	7.29	630.61	10/07/1999	7.78	630.12	10/27/1999	6.47	626.42	01/03/2000	3.40	629.49	NA	NA	
659.54	06/16/98	1.82	657.72	09/18/98	6.47	653.07	10/07/1999	3.98	653.56	10/27/1999	7.28	630.62	01/03/2000	3.78	634.12	NA	NA	
659.30	06/16/98	4.14	653.16	09/18/98	8.22	651.08	10/07/1999	7.96	651.34	10/27/1999	6.62	652.68	01/03/2000	4.08	655.22	08/27/2001	2.82	
694.02	06/16/98	Not Measured	Not Measured	Not Measured	Not Measured	Not Measured	10/07/1999	8.81	685.21	10/27/1999	n/a	n/a	01/03/2000	7.24	686.78	NA	NA	
683.04	06/16/98	3.34	679.7	09/18/98	Not Measured	Not Measured	10/07/1999	11.65	671.39	10/27/1999	9.78	673.26	01/03/2000	3.72	679.32	NA	NA	
657.73	06/16/98	2.81	654.92	09/18/98	6.5	651.23	10/07/1999	7.00	650.73	10/27/1999	5.86	651.87	01/03/2000	2.84	654.89	NA	NA	
653.65	06/16/98	6.73	647.12	09/18/98	10.42	643.43	10/07/1999	11.43	642.42	10/27/1999	10.08	643.77	01/03/2000	5.50	648.35	08/27/2001	1.60	
650.90	06/16/98	2.83	648.07	09/18/98	6.93	643.97	10/07/1999	7.78	643.12	10/27/1999	4.99	645.91	01/03/2000	2.78	648.12	NA	NA	
650.41	06/16/98	4.12	646.29	09/18/98	8.49	641.92	10/07/1999	8.84	641.57	10/27/1999	7.35	643.06	01/03/2000	4.18	646.23	08/27/2001	2.16	
628.06	06/16/98	3.06	625	09/18/98	8.18	619.88	10/07/1999	7.70	620.36	10/27/1999	5.42	622.64	01/03/2000	3.32	624.74	08/27/2001	0.41	
648.32	06/16/98	3.29	645.03	09/18/98	7.42	640.9	10/07/1999	7.78	640.34	10/27/1999	6.70	641.62	01/03/2000	3.32	645	08/27/2001	3.12	
650.50	06/16/98	4.07	646.43	09/18/98	7.32	643.18	10/07/1999	8.74	641.76	10/27/1999	7.32	643.18	01/03/2000	4.10	646.4	NA	NA	
649.88	06/16/98	3.99	645.89	09/18/98	7.27	642.61	10/07/1999	8.48	641.4	10/27/1999	16.00	633.88	01/03/2000	5.90	643.98	NA	NA	
628.24	06/16/98	3.14	625.1	09/18/98	Not Measured	Not Measured	10/07/1999	7.75	620.49	10/27/1999	5.60	622.64	01/03/2000	3.48	624.76	NA	NA	
626.35	06/16/98	2.73	623.62	09/18/98	7.68	618.67	10/07/1999	7.24	619.11	10/27/1999	5.10	621.25	01/03/2000	2.18	624.17	NA	NA	
639.41	06/16/98	6.94	632.17	09/18/98	9.95	629.46	10/07/1999	9.48	629.93	10/27/1999	8.72	630.69	01/03/2000	6.70	632.71	08/27/2001	0.45	
639.11	06/16/98	6.94	632.17	09/18/98	10.4	628.71	10/07/1999	9.52	629.59	10/27/1999	8.58	630.53	01/03/2000	6.68	632.37	NA	NA	
639.16	06/16/98	6.84	632.32	09/18/98	10.06	629.1	10/07/1999	9.40	629.76	10/27/1999	11.20	627.96	01/03/2000	6.68	632.48	NA	NA	
630.51	06/16/98	3.17	627.34	09/18/98	8.85	621.66	10/07/1999	5.61	624.9	10/27/1999	4.42	626.09	01/03/2000	3.46	627.05	08/27/2001	0.32	
629.82	06/16/98	1.95	627.87	09/18/98	8.06	621.76	10/07/1999	4.67	625.15	10/27/1999	3.52	626.3	01/03/2000	2.30	627.52	NA	NA	
629.69	06/16/98	1.66	628.03	09/18/98	4.9	624.79	10/07/1999	4.46	625.23	10/27/1999	3.33	626.36	01/03/2000	2.06	627.63	NA	NA	

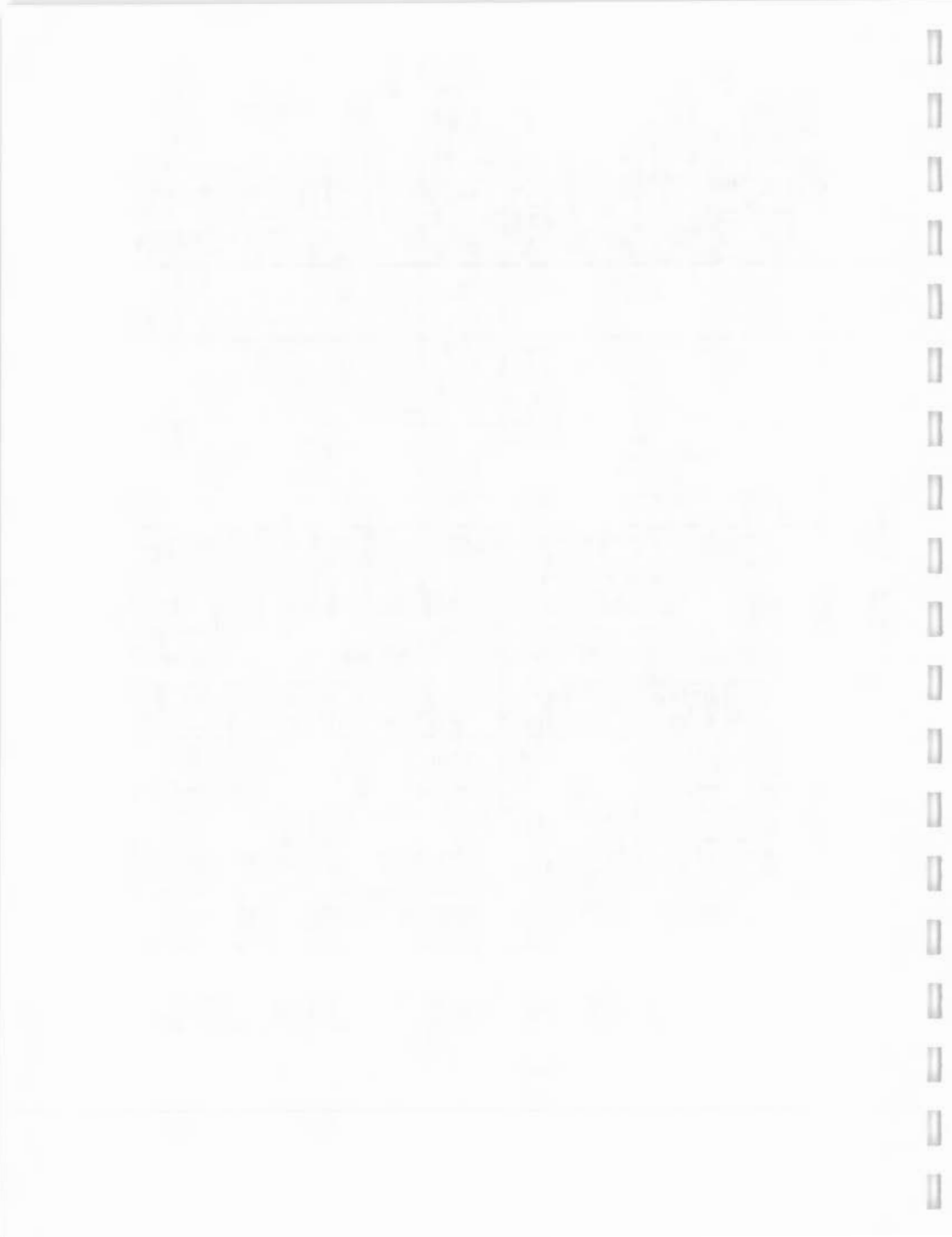


TABLE 3-1
GROUNDWATER ELEVATION DATA - SECOND QUARTER 2002
GROUNDWATER MONITORING - ASH LANDFILL
SENECA ARMY DEPOT ACTIVITY

Top of Riser Elevation (ft)	Second Quarter 1998				Third Quarter 1998				Measured on 10/27/99				Round 2 (1/3/00)				3Q 2001 Data						
	Date	of Riser (ft.)	ater Level (f		Date	of Riser (ft.)	ater Level (f		Date	of Riser (ft.)	ater Level (f		Date	of Riser (ft.)	ater Level (f		Date	of Riser (ft.)	ater Level (f		Saturated Thickness (ft)	Dep Groun	
656.83	06/16/98	2	654.83	651	09/18/98	5.83	651	651.73	10/07/1999	5.10	651.73	656.83	10/27/1999	4.19	652.64	01/03/2000	2.16	654.67	08/27/2001	6	2.12	6	
660.15	06/16/98	2.14	658.01	653.25	09/18/98	6.9	653.25	656.83	10/07/1999	3.32	656.83	656.29	10/27/1999	3.86	656.29	01/03/2000	2.16	657.99	08/27/2001	7	1.58	7	
637.24																			08/27/2001	8	1.57	8	
637.19																			NA	NA	NA	NA	
637.31																			08/27/2001	8	1.68	8	
637.68																			08/27/2001	10	2.03	10	
637.72																			NA	NA	NA	NA	
637.59																			08/27/2001	10	1.93	10	
638.34																			08/27/2001	11	2.21	11	
638.40																			NA	NA	NA	NA	
638.08																			08/27/2001	12	2.10	12	
636.07																			08/27/2001	6	2.43	6	
635.90																			08/28/2001	8	0.97	8	

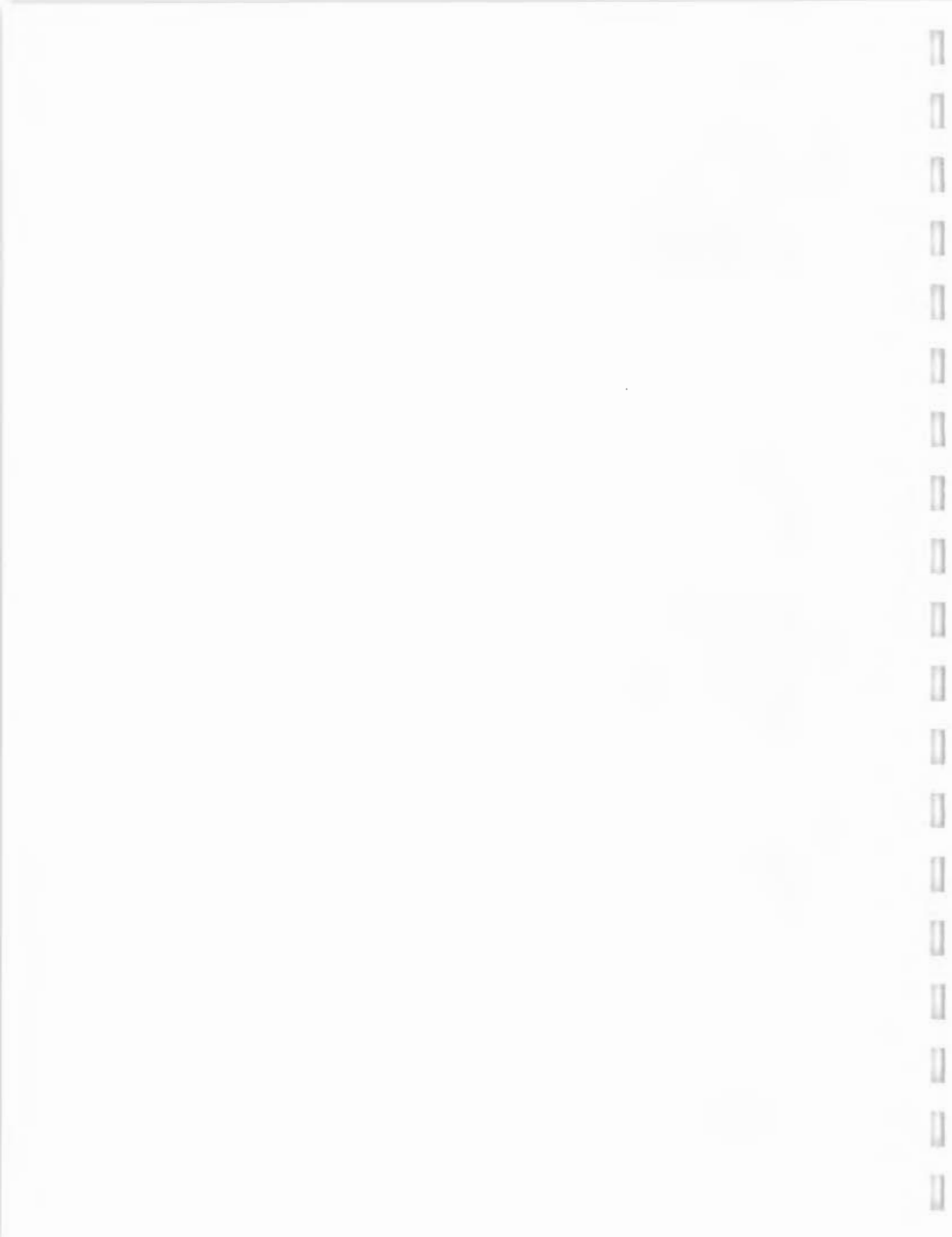


TABLE J-1
GROUNDWATER ELEVATION DATA - SECOND QUARTER 2002
GROUNDWATER MONITORING - ASH LANDFILL
SENECA ARMY DEPOT ACTIVITY

Monitoring Well	Top of Riser Elevation (ft)	2Q 2002 Data				3Q 2002 Data				Historical Data			
		Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Maximum	Minimum	Range	Well Depth (ft)
PT-10	681.52	04/08/2002	41.09	5.27	676.25	04/08/2002	37.66	8.70	672.82	676.90	671.02	5.88	46.36
PT-11	658.22	04/08/2002	14.77	4.78	653.44	04/08/2002	9.25	10.30	647.92	654.03	647.79	6.24	19.55
PT-12A	652.15	04/08/2002	9.22	4.16	647.99	04/08/2002	3.87	9.51	642.64	649.01	642.26	6.75	13.38
PT-15	637.76	04/08/2002	15.35	4.15	633.61	04/08/2002	9.40	10.10	627.66	633.74	627.38	6.36	19.50
PT-16	637.51	04/08/2002	7.12	3.92	633.59	04/08/2002	3.89	7.15	630.36	634.85	629.83	5.02	11.04
PT-17	640.14	04/08/2002	7.12	4.53	635.61	04/08/2002	0.90	10.75	629.39	635.85	629.05	6.80	11.65
PT-18	656.68	04/08/2002	6.84	4.86	651.82	04/08/2002	3.07	8.63	648.03	652.28	646.30	5.98	11.70
PT-19	645.26	04/08/2002	8.71	2.99	642.27	04/08/2002	1.45	10.25	635.01	643.09	635.01	8.08	11.70
MW-20	647.28	04/08/2002	5.81	5.99	641.29	04/08/2002	9.21	Dry	637.48	642.34	637.41	4.93	11.80
MW-21A	647.73	04/08/2002	14.02	5.44	642.29	04/08/2002	0.96	10.85	637.76	643.84	637.22	6.62	19.46
MW-22	648.61	04/08/2002	5.48	5.93	642.68	04/08/2002	0.96	10.85	637.76	644.30	637.51	6.79	11.81
PT-23	641.38	04/08/2002	8.20	3.88	637.7	NA	NA	Not Measured	638.14	632.35	632.35	5.79	12.08
PT-24	636.40	04/08/2002	7.39	4.49	631.91	04/08/2002	4.53	7.35	629.05	632.76	627.99	4.77	11.88
PT-25	637.09	04/08/2002	8.13	3.90	633.19	04/08/2002	0.58	11.45	625.64	633.51	625.64	7.87	12.03
PT-26	614.64	NA	NA	Not Measured	NA	NA	NA	Not Measured	611.60	601.53	10.07	14.00	10.54
MW-27	639.32	04/08/2002	5.66	4.88	634.44	04/08/2002	1.69	8.85	630.47	634.88	630.09	4.79	10.54
MW-28	637.21	04/08/2002	5.61	4.78	632.43	04/08/2002	2.79	7.60	629.61	632.57	628.71	3.86	10.39
MW-29	637.31	04/08/2002	5.33	5.21	632.1	04/08/2002	0.99	9.55	627.76	632.10	627.30	4.80	10.54
MW-30	640.32	04/10/2002	5.74	4.78	635.54	04/10/2002	24.44	Dry	636.38	629.88	629.88	6.50	10.52
MW-31	636.70	04/08/2002	7.41	2.94	633.76	04/08/2002	4.53	Dry	634.22	627.02	627.02	7.20	10.35
MW-32	641.68	04/08/2002	6.13	4.24	637.44	04/08/2002	6.13	Dry	637.84	632.70	632.70	5.14	10.37
MW-33	639.56	04/08/2002	6.13	4.26	635.3	04/08/2002	6.13	Dry	635.65	629.72	629.72	5.93	10.39
MW-34	632.89	04/08/2002	14.30	3.85	629.04	NA	NA	Not Measured	630.15	622.36	622.36	7.79	18.15
MW-35D	631.82	04/08/2002	33.72	2.92	628.9	NA	NA	Not Measured	629.44	624.62	624.62	4.82	56.64
MW-36	631.79	04/08/2002	12.97	3.61	628.18	NA	NA	Removed	629.47	622.26	622.26	7.21	16.58
MW-37	632.89	04/08/2002	10.57	3.05	629.84	NA	NA	Not Measured	630.65	625.77	625.77	4.88	13.62
MW-38D	637.90	04/08/2002	28.63	3.61	634.29	04/08/2002	24.44	7.80	630.1	635.39	628.99	6.40	32.24
MW-39	659.54	04/08/2002	10.02	1.87	657.67	NA	NA	Not Measured	657.84	650.47	650.47	7.37	11.89
MW-40	659.30	04/08/2002	10.95	3.76	655.54	NA	NA	Not Measured	655.85	650.16	650.16	5.69	14.71
MW-41D	694.02	NA	NA	Not Measured	NA	NA	NA	Not Measured	687.92	685.21	2.71	47.02	47.02
MW-42D	683.04	04/08/2002	44.85	2.53	680.51	NA	NA	Not Measured	680.67	671.39	9.28	47.38	47.38
MW-43	657.73	04/08/2002	4.55	2.92	654.81	04/08/2002	0.52	6.95	650.78	655.13	650.73	4.40	7.47
MW-44A	653.85	04/08/2002	8.46	4.02	649.83	04/08/2002	1.81	10.67	643.18	650.37	642.42	7.95	12.48
MW-45	650.90	04/08/2002	5.60	2.74	648.16	04/08/2002	0.74	7.60	643.3	648.16	643.12	5.04	8.34
MW-46	650.41	04/08/2002	8.11	3.34	647.07	04/08/2002	2.31	9.14	641.27	647.53	641.12	6.41	11.45
MW-47	628.06	04/08/2002	5.65	2.91	625.15	04/08/2002	0.39	8.17	619.89	625.76	619.88	5.88	8.56
MW-48	648.32	04/08/2002	8.60	2.90	645.42	04/08/2002	3.65	7.85	640.47	645.46	639.94	5.52	11.50
MW-49D	650.50	04/08/2002	34.24	3.30	647.2	04/08/2002	28.59	8.95	641.55	647.62	641.55	6.07	37.54
MW-50D	649.88	04/08/2002	56.36	3.30	646.58	04/08/2002	50.96	8.70	641.18	647.40	633.88	13.52	59.66
MW-51D	628.24	04/08/2002	33.07	3.80	624.44	NA	NA	Not Measured	628.24	620.49	7.75	36.87	36.87
MW-52D	626.33	04/08/2002	56.79	2.57	623.78	NA	NA	Not Measured	624.17	618.67	5.50	59.36	59.36
MW-53	639.41	04/08/2002	4.78	5.57	633.84	04/08/2002	0.45	9.90	629.51	633.84	629.46	4.38	10.35
MW-54D	639.11	04/08/2002	26.31	5.68	633.43	04/08/2002	24.54	10.45	628.66	633.43	628.66	4.77	34.99
MW-55D	639.16	04/08/2002	52.43	5.75	633.41	04/08/2002	47.98	10.20	628.96	633.41	627.96	5.45	58.18
MW-56	630.51	04/10/2002	3.13	3.75	626.76	04/10/2002	0.00	Dry	627.56	627.56	627.56	5.90	6.88
MW-57D	629.82	04/08/2002	33.13	1.96	627.86	04/08/2002	29.14	5.95	623.87	628.13	621.76	6.37	35.09
MW-58D	629.69	04/08/2002	55.67	1.62	628.07	04/08/2002	51.54	5.75	623.94	628.37	623.94	4.43	57.29

[The text in this section is extremely faint and illegible.]



TABLE J-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				3Q 2002 Data				Historical Data			
		Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Date Measured	Saturated Thickness (ft)	Depth to Groundwater (ft)	Water Level Elevation (ft)	Maximum	Minimum	Range	Well Depth (ft)
MW-59	656.83	04/08/2002	6.89	2.21	654.62	NA	NA	Not Measured	NA	654.93	649.85	5.08	9.10
MW-60	660.15	04/08/2002	7.40	2.10	658.05	04/08/2002	2.30	7.20	652.95	658.20	652.23	5.97	9.50
MWT-1	637.24	04/09/2002	4.98	4.77	632.47	04/09/2002	2.55	7.20	630.04	632.47	629.06	3.41	9.75
MWT-2	637.19	04/08/2002	4.63	4.92	632.27	04/08/2002	2.30	7.25	629.94	632.27	629.94	2.33	9.55
MWT-3	637.31	04/09/2002	4.89	5.11	632.2	04/09/2002	2.65	7.55	629.96	632.20	628.99	3.21	10.00
MWT-4	637.68	04/09/2002	7.22	5.21	632.47	04/09/2002	3.68	8.75	628.93	632.47	627.28	5.19	12.43
MWT-5	637.72	04/08/2002	6.68	5.27	632.45	04/08/2002	2.90	9.05	628.67	632.45	628.67	3.78	11.95
MWT-6	637.59	04/09/2002	7.07	5.21	632.38	04/09/2002	3.28	9.00	628.59	632.38	627.24	5.14	12.28
MWT-7	638.34	04/09/2002	8.50	5.47	632.87	04/09/2002	3.72	10.25	628.09	632.87	626.58	6.29	13.97
MWT-8	638.40	04/08/2002	6.73	5.82	632.58	04/08/2002	2.10	10.45	627.95	632.58	627.95	4.63	12.55
MWT-9	638.08	04/09/2002	8.48	5.66	632.42	NA	NA	Not Measured	NA	632.42	626.04	6.38	14.14
MWT-10	636.07	04/09/2002	5.11	3.84	632.23	04/09/2002	3.20	5.75	630.32	632.23	629.55	2.68	8.95
MWT-11	635.90	04/10/2002	7.00	2.95	632.95	04/10/2002	1.74	8.21	627.69	632.95	626.92	6.03	9.95



A2. FIELD DATA SHEETS

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

			December, 2001		
Monitoring Well (1)	Elevation at Top of Riser (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	46.39		8.70	
PT-11	658.22	19.55		9.51 10.30	
PT-12A	652.15	13.38		9.51	
PT-15	637.76	19.5		10.10	
PT-16	637.51	11.04		7.15	
PT-17	640.14	11.65		10.75	
PT-18	656.68	11.7		8.63	
PT-19	645.26	11.7		10.25	
MW-20	647.28	11.8		DRY	No water
MW-21A	647.73	19.46		10.25 10.25	
MW-22/PT-22	648.61	11.81		10.85	
PT-23	641.58	12.8		—	Yellow Jackets
PT-24	636.40	11.88		7.35	
PT-25	637.09	12.03		11.45	
PT-26	614.64	14		—	Yellow Jackets
MW-27	639.32	10.54		8.85	
MW-28	637.21	10.39		7.60	
MW-29	637.31	10.54		9.55	
MW-30	640.32	10.52		10.52	No Water
MW-31	636.70	10.34		10.34	No Water
MW-32/PT-32	641.68	10.37		DRY	No Water
MW-33	639.56	10.36		10.36	No Water
MW-34	632.89	18.15		—	Yellow Jackets
MW-35D	631.82	56.64			Offsite Removed
MW-36	631.79	16.58			Offsite Remove
MW-37	632.89	13.62			Yellow Jackets
MW-38D	637.90	32.24		7.80	
MW-39	659.54	11.89			Yellow Jackets
MW-40	659.30	14.71			Yellow Jackets
MW-41D	694.02	47.02		—	
MW-42D	683.04	47.38		—	
MW-43	657.73	7.47		6.95	
MW-44A	653.85	12.48		10.67	
MW-45	650.90	8.34		7.60	
MW-46	650.41	11.45		9.14	
MW-47	628.06	8.56		8.17	offsite



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

Monitoring Well (1)	Elevation at Top of Riser (2)	Well Depth (rel. TOC historic)	December, 2001		
			Date	Depth from Top of Riser (ft.)	Comments/ well condition
MW-48	648.32	11.5		7.85	
MW-49D	650.50	37.54		8.95	
MW-50D	649.88	59.66		8.70	
MW-51D	628.24	36.87			Offsite
MW-52D	626.35	59.36			Offsite
MW-53	639.41	10.35		9.90	
MW-54D	639.11	34.99		10.45	
MW-55D	639.16	58.18		10.20	
MW-56	630.51	6.88		DRY	Offsite
MW-57D	629.82	35.09		5.95	offsite
MW-58D	629.69	57.29		5.75	offsite
MW-59	656.83	9.1			Yellow Jacket
MW-60	660.15	9.5		7.20	
MWT-1	637.24	10.13		7.20	
MWT-2	637.19	9.7		7.25	
MWT-3	637.31	10.13		7.35	
MWT-4	637.68	12.43		8.75	
MWT-5	637.72	12.1		9.05	
MWT-6	637.59	12.65		9.00	
MWT-7	638.34	13.64		10.25	
MWT-8	638.40	12.8		10.45	
MWT-9	638.08	14.14		10.45	Yellow Jacket
MWT-10	636.07	9	5.75	10.45	
MWT-11	635.90	9.94		8.21	

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024																																																																																																										
Population	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY CONSULTANT: PARSONS ES WELL #: **BNS**

PROJECT: QUARTERLY SAMPLING -ASH LANDFILL DATE: 8/16/02
 LOCATION: ROMULUS, NY INSPECTORS: Ben Dale
 PUMP #: _____
 SAMPLE ID #: _____

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND	(FROM)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	DETECTOR
				VELOCITY (APPRX)	DIRECTION (0 - 360)			
							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 0.151 0.617 1.389 2.475 5.504	ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]
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HISTORIC DATA	DEPTH TO POINT OF WELL (TOC)	DEPTH TO TOP OF SCREEN (TOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC COND

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (TOC)	DEPTH TO STABILIZED WATER LEVEL (TOC)	DEPTH TO PUMP INTAKE (TOC)	PUMPING START TIME

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)
Barn well Shallow									
Sample time 1315									
Sample ID, ARDA168						8/24/02			
Analysts Requested						8/24/02			

SAMPLING RECORD - GROUNDWATER

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

PROJECT: QUARTERLY SAMPLING - ASH LANDFILL DATE: 8.15.02
 LOCATION: ROMULUS, NY INSPECTORS: Ben/Dale
 PUMP #: _____
 SAMPLE ID #: _____

WEATHER / FIELD CONDITIONS CHECKLIST							(RECORD MAJOR CHANGES)	
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	(FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING	
							INSTRUMENT	DETECTOR
							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	0.151	0.611	1.389	2.475	5.564

ONE WELL VOLUME (GAL) = ((POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT))
4.53 x .163 x 3 = 2.21 gallons

HISTORIC DATA	DEPTH TO POINT OF WELL (FOU)	DEPTH TO TOP OF SCREEN (FOU)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
	<u>11.88</u>					

DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STAIR WATER LEVEL (FOU)	DEPTH TO STABILIZED WATER LEVEL (FOU)	DEPTH TO PUMP INTAKE (FOU)	PUMPING START TIME
	<u>Ø</u>	<u>7.35</u>		<u>10.88</u>	<u>1030</u>

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)
1030	7.55	300	0	5.02	16.2	.628	8.04	-7.4	14.3
1032	7.77	300	600 ml	3.10	16.3	.627	7.98	-9.1	11.6
1034	7.77	300	1200 ml	1.33	16.5	.618	7.82	-8.7	11.2
1036	7.78	300	1800 ml	.89	16.8	.608	7.62	-6.5	10.5
1038	7.80	300	2400 ml	.78	16.8	.603	7.57	-5.0	10.1
1040	7.80	300	3000 ml	.72	16.7	.600	7.50	-4.1	10.1
1042	7.80	300	3600 ml	.67	16.7	.598	7.45	-3.4	10.2
1044	7.80	300	4200 ml	.64	16.8	.596	7.39	-2.5	10.2
1046	7.80	300	4800 ml	.62	16.8	.595	7.37	-1.6	10.2
1048	7.80	300	5400 ml	.60	16.9	.595	7.35	-1.1	10.1
1050	7.80	300	6000 ml	.59	16.9	.594	7.33	-0.7	10.3
1052	7.8	300	6600 ml	.58	16.8	.592	7.31	0	10.5
1054	7.8	300	7200 ml	.56	16.8	.590	7.30	5	

Sample time 11:00

ARO 2180 on lot
 Sample ID ARO 2081 just
 Duplicate ID ARO 2191 10/10/02
 Analysis Request 8260B

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	4 deg C	HCL	3/ 40 ml	VOA		
2	DOC	4 deg C	H ₂ SO ₄	2/ 40 ml	VOA		
3	Methane/Ethane/Ethene	4 deg C	HCL	3/ 40 ml	VOA		
4	Nitrate/Nitrogen 352.1	4 deg C		1 x 500 ml	HDPE		
7	Alkalinity/Sulfate/Chlorides	4 deg C		1 x 1L	HDPE		
5	Ferrous Iron		Field Analysis	0.02	mg/l	(a) 16.8°	
6	Sulfide		Field Analysis	0.010	mg/l	(a) 16.8°	
8	Hydrogen	4 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-28

PROJECT: QUARTERLY SAMPLING - ASH LANDFILL DATE: 8.16.02
 LOCATION: ROMULUS, NY INSPECTORS: Ben/Date
 PUMP #: _____
 SAMPLE ID #: _____

WEATHER / FIELD CONDITIONS CHECKLIST (RECORD MAJOR CHANGES)							MONITORING	
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	(FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	INSTRUMENT	DETECTOR
							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	0.151	0.617	1.389	2.473	5.564

ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)]
 2.79 x 1.63 x 3 = 1.36 gallons

HISTORIC DATA	DEPTH TO POINT OF WELL (FOU)	DEPTH TO TOP OF SCREEN (FOU)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC COND
	10.39					

DATA COLLECTED AT WELL SITE	PIU READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (FOU)	DEPTH TO STABILIZED WATER LEVEL (FOU)	DEPTH TO PUMP INTAKE (FOU)	PUMPING START TIME
	Ø	7.60	TOP	9.39	1130

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) ml	DISSOLVED OXYGEN (mg/L)	TEMP (C)	SPEC. COND (µmhos)	pH	ORP (mV)	TURBIDITY (NTU)
1136	TOP	200	1200	1.27	18.6	680	6.97	196	16.9
1138	TOP	200	1400	1.14	18.5	680	6.97	190	15.9
1140	TOP	200	1600	1.06	18.2	679	6.97	184	16.9
1142	TOP	200	1800	1.06	18.2	679	6.97	183	11.4
1144	TOP	200	2000	1.06	18.2	678	6.98	183	7.9
1146	TOP	200	2200	1.08	18.3	678	6.98	183	6.3
1148	TOP	200	2400	1.10	18.3	678	6.98	184	5.8
1150	TOP	200	2600	1.17	18.3	677	6.97	187	5.5
1152	TOP	200	2800	1.22	18.3	677	6.97	190	5.0
1154	TOP	200	3000	1.21	18.3	677	6.97	191	4.7
1156	TOP	200	3400	1.20	18.3	676	6.98	192	4.7

Sample Time is 1200

Sample ID ARD217A

Analyst Request 8260.B

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	4 deg C	HCL	3/ 40 ml	VOA			
2	DOC	4 deg C	H ₂ SO ₄	2/ 40 ml	VOA			
3	Methane/Ethane/Ethene	4 deg C	HCL	3/ 40 ml	VOA			
4	Nitrate/Nitrogen 352.1	4 deg C		1 x 500 ml	HDPE			
7	Alkalinity/Sulfate/Chlorides	4 deg C		1 x 1L	HDPE			
5	Ferrous Iron		Field Analysis	0.20	Mg/l	@ 18.3	°C	
6	Sulfide		Field Analysis	0.198	Mg/l	@ 18.3	°C	
8	Hydrogen	4 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	TYPE				
1	VOC -CLP(Low Level) or 524.2	4 deg C	HCL	3/ 40 ml	VOA		
2	DOC	4 deg C	H ₂ SO ₄	2/ 40 ml	VOA		
3	Methane/Ethane/Ethene	4 deg C	HCL	3/ 40 ml	VOA		
4	Nitrate/Nitrogen 352.1	4 deg C		1 x 500 ml	HDPE		
7	Alkalinity/Sulfate/Chlorides	4 deg C		1 x 1L	HDPE		
5	Ferrous Iron	Field Analysis					
6	Sulfide	Field Analysis					
8	Hydrogen	4 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	TYPE			
1	VOC -CLP(Low Level) or 524.2	4 deg C	HCL	3/ 40 ml	VOA			
2	DOC	4 deg C	H ₂ SO ₄	2/ 40 ml	VOA			
3	Methane/Ethane/Ethene	4 deg C	HCL	3/ 40 ml	VOA			
4	Nitrate/Nitrogen 352.1	4 deg C		1 x 500 ml	HDPE			
7	Alkalinity/Sulfate/Chlorides	4 deg C		1 x 1L	HDPE			
5	Ferrous Iron	Field Analysis						
6	Sulfide	Field Analysis						
8	Hydrogen	4 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	TYPE				
1	VOC -CLP(Low Level) or 524.2	4 deg C	HCL	3/ 40 ml	VOA		
2	DOC	4 deg C	H ₂ SO ₄	2/ 40 ml	VOA		
3	Methane/Ethane/Ethene	4 deg C	HCL	3/ 40 ml	VOA		
4	Nitrate/Nitrogen 352.1	4 deg C		1 x 500 ml	HDPE		
7	Alkalinity/Sulfate/Chlorides	4 deg C		1 x 1L	HDPE		
5	Ferrous Iron		Field Analysis	0.06	mg/l	ⓐ	15.8 °C
6	Sulfide		Field Analysis	0.030	mg/l	ⓐ	15.8 °C
8	Hydrogen	4 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	TYPE			
1	VOC -CLP(Low Level) or 524.2	4 deg C	HCL	3/ 40 ml	VOA			
2	DOC	4 deg C	H ₂ SO ₄	2/ 40 ml	VOA			
3	Methane/Ethane/Ethene	4 deg C	HCL	3/ 40 ml	VOA			
4	Nitrate/Nitrogen 352.1	4 deg C		1 x 500 ml	HDPE			
7	Alkalinity/Sulfate/Chlorides	4 deg C		1 x 1L	HDPE			
5	Ferrous Iron		Field Analysis	0.00				
6	Sulfide		Field Analysis	0.027		Mg/l	@ 16.3	
8	Hydrogen	4 deg C		2/ 40 ml	VOA			
9								
10								

COMMENTS: (QA/QC?)

Well started to go dry turbidity on fet is above 100 ntu.

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	4 deg C HCL	3/ 40 ml	VOA			
2	DOC	4 deg C H ₂ SO ₄	2/ 40 ml	VOA			
3	Methane/Ethane/Ethene	4 deg C HCL	3/ 40 ml	VOA			
4	Nitrate/Nitrogen 352.1	4 deg C	1 x 500 ml	HDPE			
7	Alkalinity/Sulfate/Chlorides	4 deg C	1 x 1L	HDPE			
5	Ferrous Iron	Field Analysis	0.01		Mg/l	Ⓟ 5.5 ^{pc}	
6	Sulfide	Field Analysis	.032		Mg/l	Ⓟ 15.5 ^{pc}	
8	Hydrogen	4 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	TYPE				
1	VOC -CLP(Low Level) or 524.2	4 deg C	HCL	3/ 40 ml	VOA		
2	DOC	4 deg C	H ₂ SO ₄	2/ 40 ml	VOA		
3	Methane/Ethane/Ethene	4 deg C	HCL	3/ 40 ml	VOA		
4	Nitrate/Nitrogen 352.1	4 deg C		1 x 500 ml	HDPE		
7	Alkalinity/Sulfate/Chlorides	4 deg C		1 x 1L	HDPE		
5	Ferrous Iron	Field Analysis		0.04	Mg/l	@	16.1°C
6	Sulfide	Field Analysis		0.019	Mg/l	@	16.1°C
8	Hydrogen	4 deg C		2/ 40 ml	VOA		
9							
10							

COMMENTS: (QA/QC?)

IDW INFORMATION:

SAMPLING RECORD - GROUNDWATER

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

PROJECT: QUARTERLY SAMPLING - ASH LANDFILL
LOCATION: ROMULUS, NY
DATE: 8-15-02
INSPECTORS: Ben/Dale
PUMP #: _____
SAMPLE ID #: _____

WEATHER / FIELD CONDITIONS CHECKLIST							(RECORD MAJOR CHANGES)	
TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL. HUMIDITY (GEN)	WIND VELOCITY (APPRX)	(FROM) DIRECTION (0 - 360)	GROUND / SITE SURFACE CONDITIONS	MONITORING	
							INSTRUMENT	DETECTOR
							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	0.151	0.617	1.389	2.472	5.564

ONE WELL VOLUME (GAL) = (H_{POW} - STABILIZED WATER LEVEL) X WELL DIAMETER FACTOR (GAL/FT)
3.87 x 1.63 x 3 = 1.79 gallons

HISTORIC DATA	DEPTH TO POINT OF WELL (FOU)	DEPTH TO TOP OF SCREEN (FOU)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC. COND
		13.92				
DATA COLLECTED AT WELL SITE	PIU READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (FOU)	DEPTH TO STABILIZED WATER LEVEL (FOU)	DEPTH TO PUMP INTAKE (FOU)	PUMPING START TIME	
	Ø	10.25	11.55	13.42	13:12	
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 (µmhos)	pH	ORP (mV)	TURBIDITY (NTU)
13:12	10.65	500	0	5.89	15.3	883	7.04	295	48.9
13:17	11.20	500	2500 ml	4.41	15.1	864	6.74	294	4.7
13:22	11.55	500	5000 ml	4.36	14.9	861	6.71	289	3.1
13:27	11.55	500	7500 ml	3.40	14.8	861	6.71	285	
Sample true						1345			
						Sample ID	TR2095 @ 1345		
						MS ID	TR 2095 MS		
						MSD ID	TR2095 MSD		
						Analysts Requested	524.2		

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	4 deg C	HCL	3/ 40 ml	VOA		
2	DOC	4 deg C	H ₂ SO ₄	2/ 40 ml	VOA		
3	Methane/Ethane/Ethene	4 deg C	HCL	3/ 40 ml	VOA		
4	Nitrate/Nitrogen 552.1	4 deg C		1 x 500 ml	HDPE		
7	Alkalinity/Sulfate/Chlorides	4 deg C		1 x 1L	HDPE		
5	Ferrous Iron	Field Analysis			0.06	my 11 @ 14.8°C	
6	Sulfide	Field Analysis			0.029	" @ 14.8°C	
8	Hydrogen	4 deg C		2/ 40 ml	VOA		
9							
10							

COMMENTS: (QA/QC?)

IDW INFORMATION:

~~0.049~~ 0.049 mg/l @ 16.7 °C
Sulfide = ↗

Fe²⁺ 0.21 mg/l @ 16.7 °C

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	4 deg C	HCL	3/ 40 ml	VOA			
2	DOC	4 deg C	H ₂ SO ₄	2/ 40 ml	VOA			
3	Methane/Ethane/Ethene	4 deg C	HCL	3/ 40 ml	VOA			
4	Nitrate/Nitrogen 352.1	4 deg C		1 x 500 ml	HDPE			
7	Alkalinity/Sulfate/Chlorides	4 deg C		1 x 1L	HDPE			
5	Ferrous Iron		Field Analysis	0.06	mg/l	@ 17.8	°C	
6	Sulfide		Field Analysis	0.037	mg/L	@ 17.8	°C	
8	Hydrogen	4 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	TYPE				
1	VOC -CLP(Low Level) or 524.2	4 deg C	HCL	3/ 40 ml	VOA		
2	DOC	4 deg C	H ₂ SO ₄	2/ 40 ml	VOA		
3	Methane/Ethane/Ethene	4 deg C	HCL	3/ 40 ml	VOA		
4	Nitrate/Nitrogen 352.1	4 deg C		1 x 500 ml	HDPE		
7	Alkalinity/Sulfate/Chlorides	4 deg C		1 x 1L	HDPE		
5	Ferrous Iron	Field Analysis					
6	Sulfide	Field Analysis					
8	Hydrogen	4 deg C		2/ 40 ml	VOA		
9							
10							

COMMENTS: (QA/QC?)

Well went dry on 8-15-02 well sampled 8-16-02
 Well went dry soon after sample collected No parameters collected

IDW INFORMATION:

SAMPLING RECORD - GROUNDWATER

SENECA ARMY DEPOT ACTIVITY

CONSULTANT: PARSONS ES

WELL #:

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

 DATE: _____
 INSPECTORS: _____
 PUMP #: _____
 SAMPLE ID #: _____

WEATHER / FIELD CONDITIONS CHECKLIST

(RECORD MAJOR CHANGES)

TIME (24 HR)	TEMP (APPRX)	WEATHER (APPRX)	REL.	WIND	(FROM)	GROUND/SITE SURFACE CONDITIONS	MONITORING	
			HUMIDITY (GEN)	VELOCITY (APPRX)	DIRECTION (0 - 360)		INSTRUMENT	DETECTOR
							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	0.151	0.617	1.389	2.473	5.564

 ONE WELL VOLUME (GAL) = [(POW - STABILIZED WATER LEVEL)
 X WELL DIAMETER FACTOR (GAL/FT)]

HISTORIC DATA	DEPTH TO POINT OF WELL (FOC)	DEPTH TO TOP OF SCREEN (FOC)	SCREEN LENGTH (FT)	WELL DEVELOPMENT TURBIDITY	WELL DEVELOPMENT pH	WELL DEVELOPMENT SPEC COND
DATA COLLECTED AT WELL SITE	PID READING (OPENING WELL)	DEPTH TO STATIC WATER LEVEL (FOC)		DEPTH TO STABILIZED WATER LEVEL (FOC)	DEPTH TO PUMP INTAKE (FOC)	PUMPING START TIME
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)

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	4 deg C HCL	3/ 40 ml	VOA			
2	DOC	4 deg C H ₂ SO ₄	2/ 40 ml	VOA			
3	Methane/Ethane/Ethene	4 deg C HCL	3/ 40 ml	VOA			
4	Nitrate/Nitrogen 352.1	4 deg C	1 x 500 ml	HDPE			
7	Alkalinity/Sulfate/Chlorides	4 deg C	1 x 1L	HDPE			
5	Ferrous Iron	Field Analysis					
6	Sulfide	Field Analysis					
8	Hydrogen	4 deg C	2/ 40 ml	VOA			
9							
10							

COMMENTS: (QA/QC?)

IDW INFORMATION:

APPENDIX B

THIRD QUARTER 2002 LABORATORY REPORTS

SEVERN TRENT LABS (STL)



Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 89326



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SEVERN**TRENT****SERVICES****STL Burlington**208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203

Fax: 802 655 1248

www.stl-inc.com

September 5, 2002

Mr. Todd Heino
Parsons Engineering Science Inc.
30 Dan Road
Canton, MA 02021Re: Laboratory Project No. 98011
Case: 98011; SDG: 89326

Dear Mr. Heino:

Enclosed are the analytical results of samples received by Severn Trent Laboratories on August 17, 2002.
Laboratory numbers have been assigned and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 08/17/02 ETR No: 89326			
498072	TR2091	08/15/02	Water
498073	TR2092	08/15/02	Water
498074	TR2093	08/15/02	Water
498075	TR2094	08/15/02	Water
498076	TR2099	08/15/02	Water
498077	TR2095	08/15/02	Water
498077MS	TR2095MS	08/15/02	Water
498077MD	TR2095MSD	08/15/02	Water
498078	TR2096	08/16/02	Water
498079	TR2097	08/16/02	Water
498080	TR2098	08/16/02	Water
498081	ARD2180	08/16/02	Water
498082	ARD2181	08/16/02	Water
498083	ARD2177	08/16/02	Water
498084	ARD2168	08/16/02	Water
498085	TR0037	08/16/02	Water
498086	TR0038	08/12/02	Water

Documentation that identifies the condition of the samples at the time of sample receipt and any issues that arose at the time of sample log-in is included in the Sample Handling section of this submittal. Please note that the laboratory received a sample identified on the chain-of-custody record as ARD2161. No corresponding container existed; however, a container identified as ARD2168 was received but not recorded on the chain-of-custody form. The sample date and time did match that provided on the chain-of-



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custody form for sample ARD2161. The client was contacted and instructed the laboratory to use the sample identification on the sample container.

Volatile Organic Compounds by EPA 8260B

Manual integrations were performed for analyte quantitation of samples in this delivery group. Documentation of these integrations is provided in the supportive documentation section of the data package.

The analysis of the samples identified as ARD2180 and ARD2181 was performed at a dilution in order to provide quantification of target analytes within the calibrated range of instrument response.

A trace amount (less than the reporting limit but greater than ½ the reporting limit) of naphthalene was detected in the method blank identified as VBLKY2. Naphthalene was not detected in any of the field samples associated with this delivery group.

The recoveries of the following analytes from both the initial and duplicate analysis of the laboratory control sample, LYCE were outside of their respective control ranges for this method: bromomethane (51%, 51%); carbon tetrachloride (120%, 120%); 1,1,1,2-tetrachloroethane (110%, 110%); and 1,1,2,2-tetrachloroethane (110%, 110%).

Volatile Organic Compounds by EPA 524.2

Manual integrations were performed for analyte quantitation of samples in this delivery group. Documentation of these integrations is provided in the supportive documentation section of the data package.

The analysis of several samples in this delivery group was performed at a dilution in order to provide quantification of target analytes within the calibrated range of instrument response.

The recoveries of the following compounds from both the initial and duplicate analysis of the laboratory fortified aliquot of sample TR2095 were outside of established laboratory control criteria: acetone (54%, 50%); carbon disulfide (145%, 136%); trichloroethene (200%, 200%); 1,1-dichloropropanone (50%, 54%); 2-nitropropanone (39%, 43%); and pentachloroethane (142%, 147%).

Acetone and carbon disulfide were also outside of the established control criteria during the analysis of one or more of the laboratory control samples associated with this delivery group. The result for carbon disulfide was consistently biased high and there is no indication of its presence in any of the field samples. The recovery of acetone from the laboratory control sample was just below the control range (68% versus 70%).

If there are any questions regarding this submittal, please contact Jeannine McCrumb at (802) 655-1203.



1950

MEMORANDUM FOR THE RECORD
SUBJECT: [Illegible]

1. [Illegible]

2. [Illegible]

3. [Illegible]

4. [Illegible]

5. [Illegible]

6. [Illegible]

7. [Illegible]



Mr. Todd Heino
September 5, 2002
Page 3 of 3



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This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0410.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael F. Wheeler".

Michael F. Wheeler, Ph.D.
Laboratory Director

MFW/jta/jmm
Enclosure



[Faint, illegible text, possibly a header or title area]

[Faint, illegible text, possibly a signature or date]



IN
T
S

Severn Trent Laboratories, Inc.
208 South Park Drive, Suite 1, Colchester, VT 05446 Tel: (802) 655-1203

CHAIN OF CUSTODY

Report to: DARSONS 10 Dan Road Colchester MA 01021 Tobi Helen 781 401-2229 781 401-2093		Invoice to: Company: _____ Address: <u>SAME</u> Contact: _____ Phone: _____ Fax: _____	
Project Name: McAllister		Sampler's Signature: Ben McAllister	

Container No.	C o m p	G r a b	Identifying Marks of Sample(s)	No./Type of Containers			Lab/Sample ID (Label)
				VOA	A/G 1 Lt.	250 ml P/O	
20			TR2091	X			3.40ml
21			TR2092	X			3.40ml
22			TR2093	X			
23			TR2094	X			
24			TR2099	X			
25			TR2045	X			
26			TR2075 MS	X			
27			TR2015 MS-D	X			
28			TR2096	X			
29			TR2097	X			3.40ml

ANALYSIS REQUESTED
5242
B260R

(Signature)	Date	Time	Received by (Signature)	Date	Time	Remarks
<i>[Signature]</i>	9/26	10:15	<i>[Signature]</i>	8/17/02	10:15	
(Signature)	Date	Time	Received by (Signature)	Date	Time	
(Signature)	Date	Time	Received by (Signature)	Date	Time	

Client's delivery of samples constitutes acceptance of Severn Trent Laboratories terms and conditions contained in the Price Schedule.
 SL - Sludge O - Oil
 C - Charcoal Tube P/O - Plastic or other
 A - Air bag L - Liquid 250 ml - Glass write mouth
 W - Wastewater A/G - Amber / Or Glass 1 Liter
 40 ml vial

STL cannot accept verbal chain of custody. Please Fax written change.





Severn Trent Laboratories, Inc.

208 South Park Drive, Suite 1, Colchester, VT 05446 Tel: (802) 655-1203

CHAIN OF CUSTODY

Report to: JACKSONS

Company: _____ Invoice to: _____

Address: 300 Don Road Address: SAFIRE

Contact: Frank Haino Contact: _____

Phone: 802-461-3009 Phone: _____

Fax: 802-461-3003 Fax: _____

Lab Use Only
Due Date: _____

Temp. of cooler when received:
1 _____ 2 _____ 3 _____

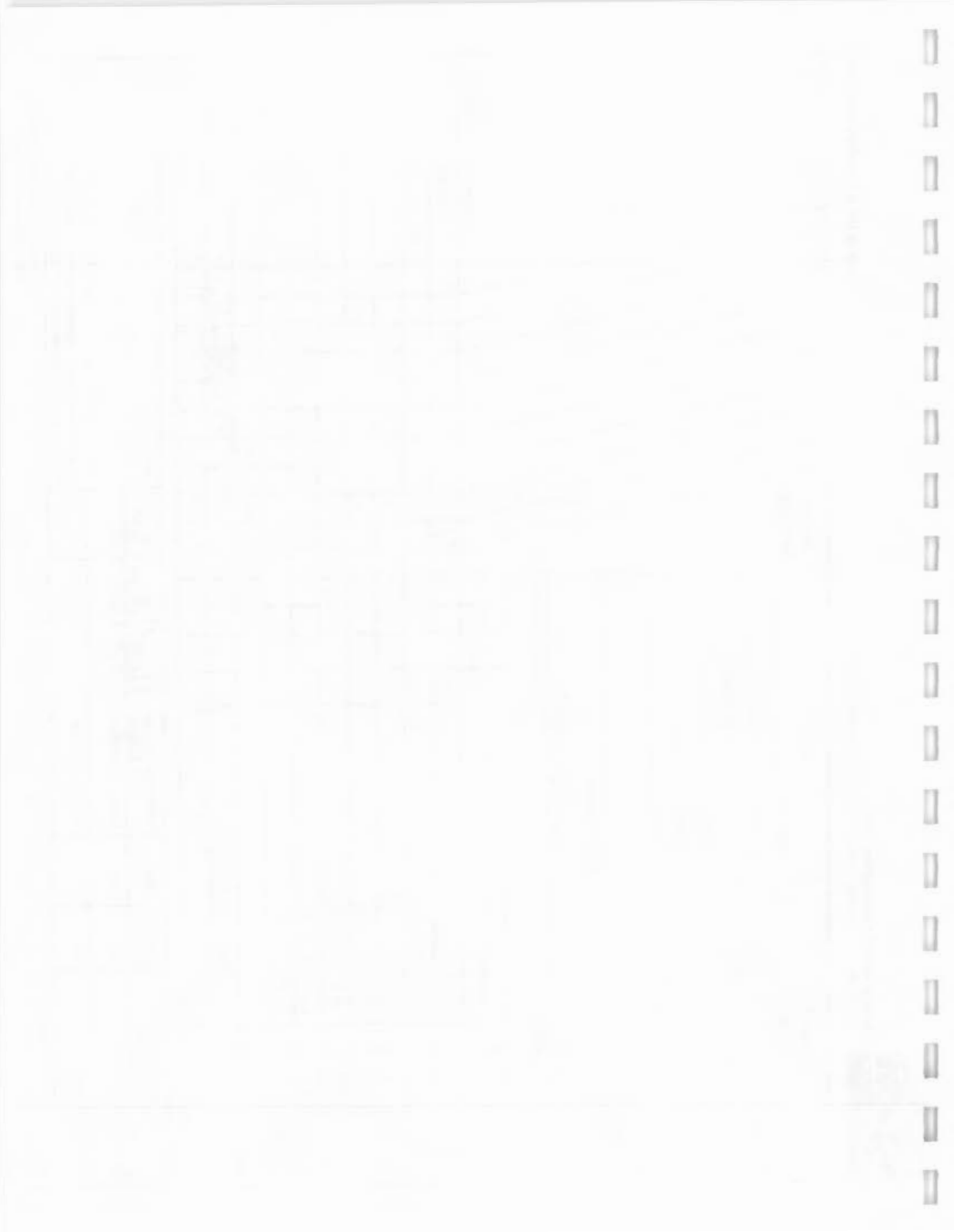
Custody Seal Intact _____

Screened For Radioactivity _____

Project Name	Sampler's Signature	No./Type of Containers			ANALYSIS REQUESTED	Lab/Sample ID (Label)
		VOA	A/G 1 Lt.	250 ml P/O		
<u>W. Alston</u>	<u>Ben McCallister</u>	X			<u>524.2</u>	<u>3-40 ml</u>
<u>TR2098</u>		X			<u>82603</u>	<u>3-40 ml</u>
<u>ARD 2160</u>		X				
<u>ARD 2181</u>		X				
<u>ARD 2177</u>		X				
<u>ARD 2161</u>		X				
<u>TR0037</u>		X				
<u>TR0038</u>						<u>3-40 ml</u>
<u>Ben McCallister</u>						

(Signature)	Date	Time	Received by (Signature)	Date	Time	Remarks
	<u>8/17/02</u>	<u>10:15</u>	<u>Henry</u>	<u>8/17/02</u>	<u>10:15</u>	<u>All samples are 300 ml Preserved with HCl</u>
						Client's delivery of samples constitutes acceptance of Severn Trent Labon terms and conditions contained in the Price Schedule.

STL cannot accept verbal change
Please Fax written change





Severn Trent Laboratories, Inc.

**METHOD 8260B
VOLATILE ORGANIC ANALYSIS
SAMPLE DATA SUMMARY PACKAGE**



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

ARD2177

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498083

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

Lab File ID: 498083

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/22/02

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

CAS NO.

COMPOUND

Q

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	0.30	J
540-59-0-----	1,2-Dichloroethene (total)	17	
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	16	
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



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

ARD2177

Lab Name: STL BURLINGTON Contract: 98011
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 89326
 Matrix: (soil/water) WATER Lab Sample ID: 498083
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 498083
 Level: (low/med) LOW Date Received: 08/17/02
 % Moisture: not dec. _____ Date Analyzed: 08/22/02
 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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	20	
78-87-5	1,2-Dichloropropane	1.0	U
80-62-6	Methyl Methacrylate	1.0	U
74-95-3	Dibromomethane	1.0	U
123-91-1	1,4-Dioxane	50	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	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	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	1.0	U
591-78-6	2-Hexanone	5.0	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	1.0	U



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

ARD2177

Lab Name: STL BURLINGTON Contract: 98011
 Lab Code: STLVT Case No.: 98011 SAS No.: SDG No.: 89326
 Matrix: (soil/water) WATER Lab Sample ID: 498083
 Sample wt/vol: 5.000 (g/mL) ML Lab File ID: 498083
 Level: (low/med) LOW Date Received: 08/17/02
 % Moisture: not dec. _____ Date Analyzed: 08/22/02
 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	1.0	U
594-20-7	2,2-Dichloropropane	1.0	U
563-58-6	1,1-Dichloropropene	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

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

ARD2180

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498081

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

Lab File ID: 498081D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/22/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 2.4

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	2.4	U
74-87-3	Chloromethane	2.4	U
75-01-4	Vinyl Chloride	2.4	U
74-83-9	Bromomethane	2.4	U
75-00-3	Chloroethane	2.4	U
75-69-4	Trichlorofluoromethane	2.4	U
107-02-8	Acrolein	12	U
76-13-1	Freon TF	2.4	U
75-35-4	1,1-Dichloroethene	2.4	U
67-64-1	Acetone	8.4	J
74-88-4	Methyl Iodide	2.4	U
75-15-0	Carbon Disulfide	2.4	U
107-05-1	Allyl Chloride	2.4	U
75-09-2	Methylene Chloride	1.7	J
107-13-1	Acrylonitrile	2.4	U
156-60-5	trans-1,2-Dichloroethene	2.4	U
540-59-0	1,2-Dichloroethene (total)	67	
1634-04-4	Methyl-t-Butyl Ether	2.4	U
75-34-3	1,1-Dichloroethane	0.60	J
108-05-4	Vinyl Acetate	2.4	U
126-99-8	Chloroprene	2.4	U
156-59-2	cis-1,2-Dichloroethene	66	
78-93-3	2-Butanone	12	U
107-12-0	Propionitrile	9.6	U
126-98-7	Methacrylonitrile	2.4	U
74-97-5	Bromochloromethane	2.4	U
109-99-9	Tetrahydrofuran	34	U
67-66-3	Chloroform	2.4	U
71-55-6	1,1,1-Trichloroethane	2.4	U
56-23-5	Carbon Tetrachloride	2.4	U
78-83-1	Isobutyl Alcohol	120	U
71-43-2	Benzene	2.4	U
107-06-2	1,2-Dichloroethane	2.4	U

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

ARD2180

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498081

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

Lab File ID: 498081D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/22/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 2.4

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	3.9	
78-87-5	1,2-Dichloropropane	2.4	U
80-62-6	Methyl Methacrylate	2.4	U
74-95-3	Dibromomethane	2.4	U
123-91-1	1,4-Dioxane	120	U
75-27-4	Bromodichloromethane	2.4	U
110-75-8	2-Chloroethyl Vinyl Ether	2.4	U
10061-01-5	cis-1,3-Dichloropropene	2.4	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	2.4	U
10061-02-6	trans-1,3-Dichloropropene	2.4	U
97-63-2	Ethyl Methacrylate	2.4	U
79-00-5	1,1,2-Trichloroethane	2.4	U
127-18-4	Tetrachloroethene	2.4	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	2.4	U
106-93-4	1,2-Dibromoethane	2.4	U
108-90-7	Chlorobenzene	2.4	U
630-20-6	1,1,1,2-Tetrachloroethane	2.4	U
100-41-4	Ethylbenzene	2.4	U
1330-20-7	Xylene (m,p)	2.4	U
1330-20-7	Xylene (total)	2.4	U
95-47-6	Xylene (o)	2.4	U
100-42-5	Styrene	2.4	U
75-25-2	Bromoform	2.4	U
98-82-8	Isopropylbenzene	2.4	U
1476-11-5	cis-1,4-Dichloro-2-butene	2.4	U
79-34-5	1,1,2,2-Tetrachloroethane	2.4	U
96-18-4	1,2,3-Trichloropropane	2.4	U
110-57-6	trans-1,4-Dichloro-2-butene	2.4	U
541-73-1	1,3-Dichlorobenzene	2.4	U
106-46-7	1,4-Dichlorobenzene	2.4	U
95-50-1	1,2-Dichlorobenzene	2.4	U

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Year	Value
1950	100
1951	110
1952	120
1953	130
1954	140
1955	150
1956	160
1957	170
1958	180
1959	190
1960	200
1961	210
1962	220
1963	230
1964	240
1965	250
1966	260
1967	270
1968	280
1969	290
1970	300
1971	310
1972	320
1973	330
1974	340
1975	350
1976	360
1977	370
1978	380
1979	390
1980	400
1981	410
1982	420
1983	430
1984	440
1985	450
1986	460
1987	470
1988	480
1989	490
1990	500
1991	510
1992	520
1993	530
1994	540
1995	550
1996	560
1997	570
1998	580
1999	590
2000	600
2001	610
2002	620
2003	630
2004	640
2005	650
2006	660
2007	670
2008	680
2009	690
2010	700
2011	710
2012	720
2013	730
2014	740
2015	750
2016	760
2017	770
2018	780
2019	790
2020	800
2021	810
2022	820
2023	830
2024	840
2025	850

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

ARD2180

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498081

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

Lab File ID: 498081D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/22/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 2.4

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_	2.4	U
120-82-1-----	1,2,4-Trichlorobenzene _____	2.4	U
87-68-3-----	Hexachlorobutadiene _____	2.4	U
91-20-3-----	Naphthalene _____	2.4	U
594-20-7-----	2,2-Dichloropropane _____	2.4	U
563-58-6-----	1,1-Dichloropropene _____	2.4	U
142-28-9-----	1,3-Dichloropropane _____	2.4	U
108-86-1-----	Bromobenzene _____	2.4	U
103-65-1-----	n-Propylbenzene _____	2.4	U
95-49-8-----	2-Chlorotoluene _____	2.4	U
106-43-4-----	4-Chlorotoluene _____	2.4	U
108-67-8-----	1,3,5-Trimethylbenzene _____	2.4	U
98-06-6-----	tert-Butylbenzene _____	2.4	U
95-63-6-----	1,2,4-Trimethylbenzene _____	2.4	U
135-98-8-----	sec-Butylbenzene _____	2.4	U
99-87-6-----	4-Isopropyltoluene _____	2.4	U
104-51-8-----	n-Butylbenzene _____	2.4	U
87-61-6-----	1,2,3-Trichlorobenzene _____	2.4	U

Faint, illegible text at the top of the page, possibly a header or title area.

Main body of faint, illegible text, possibly containing a list or detailed notes.

Faint, illegible text at the bottom of the page, possibly a footer or concluding remarks.



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

ARD2181

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498082

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

Lab File ID: 498082D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/22/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 2.7

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	2.7	U
74-87-3-----	Chloromethane	2.7	U
75-01-4-----	Vinyl Chloride	2.7	U
74-83-9-----	Bromomethane	2.7	U
75-00-3-----	Chloroethane	2.7	U
75-69-4-----	Trichlorofluoromethane	2.7	U
107-02-8-----	Acrolein	14	U
76-13-1-----	Freon TF	2.7	U
75-35-4-----	1,1-Dichloroethene	2.7	U
67-64-1-----	Acetone	9.4	J
74-88-4-----	Methyl Iodide	2.7	U
75-15-0-----	Carbon Disulfide	2.7	U
107-05-1-----	Allyl Chloride	2.7	U
75-09-2-----	Methylene Chloride	1.9	J
107-13-1-----	Acrylonitrile	2.7	U
156-60-5-----	trans-1,2-Dichloroethene	2.7	U
540-59-0-----	1,2-Dichloroethene (total)	72	
1634-04-4-----	Methyl-t-Butyl Ether	2.7	U
75-34-3-----	1,1-Dichloroethane	2.7	U
108-05-4-----	Vinyl Acetate	2.7	U
126-99-8-----	Chloroprene	2.7	U
156-59-2-----	cis-1,2-Dichloroethene	71	
78-93-3-----	2-Butanone	14	U
107-12-0-----	Propionitrile	11	U
126-98-7-----	Methacrylonitrile	2.7	U
74-97-5-----	Bromochloromethane	2.7	U
109-99-9-----	Tetrahydrofuran	38	U
67-66-3-----	Chloroform	2.7	U
71-55-6-----	1,1,1-Trichloroethane	2.7	U
56-23-5-----	Carbon Tetrachloride	2.7	U
78-83-1-----	Isobutyl Alcohol	140	U
71-43-2-----	Benzene	2.7	U
107-06-2-----	1,2-Dichloroethane	2.7	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

ARD2181

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498082

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

Lab File ID: 498082D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/22/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 2.7

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO.

COMPOUND

Q

79-01-6-----	Trichloroethene	4.1	
78-87-5-----	1,2-Dichloropropane	2.7	U
80-62-6-----	Methyl Methacrylate	2.7	U
74-95-3-----	Dibromomethane	2.7	U
123-91-1-----	1,4-Dioxane	140	U
75-27-4-----	Bromodichloromethane	2.7	U
110-75-8-----	2-Chloroethyl Vinyl Ether	2.7	U
10061-01-5-----	cis-1,3-Dichloropropene	2.7	U
108-10-1-----	4-Methyl-2-pentanone	14	U
108-88-3-----	Toluene	2.7	U
10061-02-6-----	trans-1,3-Dichloropropene	2.7	U
97-63-2-----	Ethyl Methacrylate	2.7	U
79-00-5-----	1,1,2-Trichloroethane	2.7	U
127-18-4-----	Tetrachloroethene	2.7	U
591-78-6-----	2-Hexanone	14	U
124-48-1-----	Dibromochloromethane	2.7	U
106-93-4-----	1,2-Dibromoethane	2.7	U
108-90-7-----	Chlorobenzene	2.7	U
630-20-6-----	1,1,1,2-Tetrachloroethane	2.7	U
100-41-4-----	Ethylbenzene	2.7	U
1330-20-7-----	Xylene (m,p)	2.7	U
1330-20-7-----	Xylene (total)	2.7	U
95-47-6-----	Xylene (o)	2.7	U
100-42-5-----	Styrene	2.7	U
75-25-2-----	Bromoform	2.7	U
98-82-8-----	Isopropylbenzene	2.7	U
1476-11-5-----	cis-1,4-Dichloro-2-butene	2.7	U
79-34-5-----	1,1,2,2-Tetrachloroethane	2.7	U
96-18-4-----	1,2,3-Trichloropropane	2.7	U
110-57-6-----	trans-1,4-Dichloro-2-butene	2.7	U
541-73-1-----	1,3-Dichlorobenzene	2.7	U
106-46-7-----	1,4-Dichlorobenzene	2.7	U
95-50-1-----	1,2-Dichlorobenzene	2.7	U

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Main body of handwritten text, appearing to be a list or series of entries.



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

ARD2181

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498082

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

Lab File ID: 498082D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/22/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 2.7

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_	2.7	U
120-82-1-----	1,2,4-Trichlorobenzene_____	2.7	U
87-68-3-----	Hexachlorobutadiene_____	2.7	U
91-20-3-----	Naphthalene_____	2.7	U
594-20-7-----	2,2-Dichloropropane_____	2.7	U
563-58-6-----	1,1-Dichloropropene_____	2.7	U
142-28-9-----	1,3-Dichloropropane_____	2.7	U
108-86-1-----	Bromobenzene_____	2.7	U
103-65-1-----	n-Propylbenzene_____	2.7	U
95-49-8-----	2-Chlorotoluene_____	2.7	U
106-43-4-----	4-Chlorotoluene_____	2.7	U
108-67-8-----	1,3,5-Trimethylbenzene_____	2.7	U
98-06-6-----	tert-Butylbenzene_____	2.7	U
95-63-6-----	1,2,4-Trimethylbenzene_____	2.7	U
135-98-8-----	sec-Butylbenzene_____	2.7	U
99-87-6-----	4-Isopropyltoluene_____	2.7	U
104-51-8-----	n-Butylbenzene_____	2.7	U
87-61-6-----	1,2,3-Trichlorobenzene_____	2.7	U



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LYCE LCS

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: LYCE LCS

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

Lab File ID: LYC10EQ

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/22/02

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	9.3	
74-87-3	Chloromethane	7.1	
75-01-4	Vinyl Chloride	8.8	
74-83-9	Bromomethane	5.1	
75-00-3	Chloroethane	9.5	
75-69-4	Trichlorofluoromethane	8.9	
107-02-8	Acrolein	44	
76-13-1	Freon TF	9.8	
75-35-4	1,1-Dichloroethene	9.2	
67-64-1	Acetone	48	
74-88-4	Methyl Iodide	6.8	
75-15-0	Carbon Disulfide	9.7	
107-05-1	Allyl Chloride	9.3	
75-09-2	Methylene Chloride	9.6	
107-13-1	Acrylonitrile	9.8	
156-60-5	trans-1,2-Dichloroethene	9.6	
540-59-0	1,2-Dichloroethene (total)	21	
1634-04-4	Methyl-t-Butyl Ether	9.3	
75-34-3	1,1-Dichloroethane	9.4	
108-05-4	Vinyl Acetate	11	
126-99-8	Chloroprene	9.7	
156-59-2	cis-1,2-Dichloroethene	11	
78-93-3	2-Butanone	55	
107-12-0	Propionitrile	36	
126-98-7	Methacrylonitrile	9.6	
74-97-5	Bromochloromethane	10	
109-99-9	Tetrahydrofuran	140	
67-66-3	Chloroform	10	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	12	
78-83-1	Isobutyl Alcohol	500	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	10	

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial statements and for providing a clear audit trail. The second part of the document outlines the various methods used to collect and analyze data, including interviews, surveys, and focus groups. The third part of the document describes the results of the research, highlighting the key findings and the implications for practice. The final part of the document provides a conclusion and a list of references.

Year	Q1	Q2	Q3	Q4
2018	120	130	140	150
2019	130	140	150	160
2020	140	150	160	170
2021	150	160	170	180
2022	160	170	180	190

The data shows a consistent upward trend in the number of transactions over the five-year period. This is likely due to the increasing reliance on digital services and the growing number of users. The growth rate is highest in the first two years and then begins to level off. This suggests that the market is becoming more saturated and that the rate of new user acquisition is slowing down. The data also shows that the number of transactions is highest in the fourth quarter of each year, which is likely due to the holiday season. This is an important finding for businesses as it highlights the need to have adequate resources in place to handle the increased demand during this period. The data also shows that the number of transactions is lowest in the first quarter of each year, which is likely due to the slower start to the year. This is another important finding for businesses as it highlights the need to have adequate resources in place to handle the slower start to the year. The data also shows that the number of transactions is highest in the second and third quarters of each year, which is likely due to the increased activity during these periods. This is another important finding for businesses as it highlights the need to have adequate resources in place to handle the increased activity during these periods.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LYCE LCS

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: LYCE LCS

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

Lab File ID: LYC10EQ

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/22/02

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

CAS NO.	COMPOUND	Q
79-01-6	Trichloroethene	9.8
78-87-5	1,2-Dichloropropane	10
80-62-6	Methyl Methacrylate	10
74-95-3	Dibromomethane	10
123-91-1	1,4-Dioxane	450
75-27-4	Bromodichloromethane	10
110-75-8	2-Chloroethyl Vinyl Ether	9.7
10061-01-5	cis-1,3-Dichloropropene	10
108-10-1	4-Methyl-2-pentanone	53
108-88-3	Toluene	11
10061-02-6	trans-1,3-Dichloropropene	11
97-63-2	Ethyl Methacrylate	9.8
79-00-5	1,1,2-Trichloroethane	11
127-18-4	Tetrachloroethene	9.6
591-78-6	2-Hexanone	55
124-48-1	Dibromochloromethane	11
106-93-4	1,2-Dibromoethane	11
108-90-7	Chlorobenzene	11
630-20-6	1,1,1,2-Tetrachloroethane	11
100-41-4	Ethylbenzene	11
1330-20-7	Xylene (m,p)	21
1330-20-7	Xylene (total)	32
95-47-6	Xylene (o)	10
100-42-5	Styrene	11
75-25-2	Bromoform	11
98-82-8	Isopropylbenzene	11
1476-11-5	cis-1,4-Dichloro-2-butene	10
79-34-5	1,1,2,2-Tetrachloroethane	11
96-18-4	1,2,3-Trichloropropane	10
110-57-6	trans-1,4-Dichloro-2-butene	10
541-73-1	1,3-Dichlorobenzene	10
106-46-7	1,4-Dichlorobenzene	10
95-50-1	1,2-Dichlorobenzene	10

The first part of the report
 deals with the general
 situation of the country
 and the progress of
 the work during the
 year. It is followed by
 a detailed account of
 the various projects
 which have been carried
 out during the year.
 The report concludes
 with a summary of the
 results and a list of
 the names of the
 members of the
 committee.

No.	Name	Address	Profession
1	John Doe	123 Main St	Teacher
2	Jane Smith	456 Elm St	Doctor
3	Robert Brown	789 Oak St	Lawyer
4	Mary White	101 Pine St	Artist
5	James Black	202 Cedar St	Engineer
6	Elizabeth Green	303 Birch St	Musician
7	William Grey	404 Spruce St	Farmer
8	Anna King	505 Willow St	Housewife
9	Charles Lee	606 Poplar St	Merchant
10	Sarah Hall	707 Sycamore St	Teacher
11	Thomas Young	808 Chestnut St	Engineer
12	Elizabeth King	909 Walnut St	Artist
13	John White	1010 Elm St	Lawyer
14	Mary Black	1111 Oak St	Teacher
15	James Green	1212 Pine St	Engineer
16	Elizabeth Brown	1313 Cedar St	Musician
17	William Grey	1414 Spruce St	Farmer
18	Anna King	1515 Willow St	Housewife
19	Charles Lee	1616 Poplar St	Merchant
20	Sarah Hall	1717 Sycamore St	Teacher
21	Thomas Young	1818 Chestnut St	Engineer
22	Elizabeth King	1919 Walnut St	Artist
23	John White	2020 Elm St	Lawyer
24	Mary Black	2121 Oak St	Teacher
25	James Green	2222 Pine St	Engineer
26	Elizabeth Brown	2323 Cedar St	Musician
27	William Grey	2424 Spruce St	Farmer
28	Anna King	2525 Willow St	Housewife
29	Charles Lee	2626 Poplar St	Merchant
30	Sarah Hall	2727 Sycamore St	Teacher
31	Thomas Young	2828 Chestnut St	Engineer
32	Elizabeth King	2929 Walnut St	Artist
33	John White	3030 Elm St	Lawyer
34	Mary Black	3131 Oak St	Teacher
35	James Green	3232 Pine St	Engineer
36	Elizabeth Brown	3333 Cedar St	Musician
37	William Grey	3434 Spruce St	Farmer
38	Anna King	3535 Willow St	Housewife
39	Charles Lee	3636 Poplar St	Merchant
40	Sarah Hall	3737 Sycamore St	Teacher
41	Thomas Young	3838 Chestnut St	Engineer
42	Elizabeth King	3939 Walnut St	Artist
43	John White	4040 Elm St	Lawyer
44	Mary Black	4141 Oak St	Teacher
45	James Green	4242 Pine St	Engineer
46	Elizabeth Brown	4343 Cedar St	Musician
47	William Grey	4444 Spruce St	Farmer
48	Anna King	4545 Willow St	Housewife
49	Charles Lee	4646 Poplar St	Merchant
50	Sarah Hall	4747 Sycamore St	Teacher
51	Thomas Young	4848 Chestnut St	Engineer
52	Elizabeth King	4949 Walnut St	Artist
53	John White	5050 Elm St	Lawyer
54	Mary Black	5151 Oak St	Teacher
55	James Green	5252 Pine St	Engineer
56	Elizabeth Brown	5353 Cedar St	Musician
57	William Grey	5454 Spruce St	Farmer
58	Anna King	5555 Willow St	Housewife
59	Charles Lee	5656 Poplar St	Merchant
60	Sarah Hall	5757 Sycamore St	Teacher
61	Thomas Young	5858 Chestnut St	Engineer
62	Elizabeth King	5959 Walnut St	Artist
63	John White	6060 Elm St	Lawyer
64	Mary Black	6161 Oak St	Teacher
65	James Green	6262 Pine St	Engineer
66	Elizabeth Brown	6363 Cedar St	Musician
67	William Grey	6464 Spruce St	Farmer
68	Anna King	6565 Willow St	Housewife
69	Charles Lee	6666 Poplar St	Merchant
70	Sarah Hall	6767 Sycamore St	Teacher
71	Thomas Young	6868 Chestnut St	Engineer
72	Elizabeth King	6969 Walnut St	Artist
73	John White	7070 Elm St	Lawyer
74	Mary Black	7171 Oak St	Teacher
75	James Green	7272 Pine St	Engineer
76	Elizabeth Brown	7373 Cedar St	Musician
77	William Grey	7474 Spruce St	Farmer
78	Anna King	7575 Willow St	Housewife
79	Charles Lee	7676 Poplar St	Merchant
80	Sarah Hall	7777 Sycamore St	Teacher
81	Thomas Young	7878 Chestnut St	Engineer
82	Elizabeth King	7979 Walnut St	Artist
83	John White	8080 Elm St	Lawyer
84	Mary Black	8181 Oak St	Teacher
85	James Green	8282 Pine St	Engineer
86	Elizabeth Brown	8383 Cedar St	Musician
87	William Grey	8484 Spruce St	Farmer
88	Anna King	8585 Willow St	Housewife
89	Charles Lee	8686 Poplar St	Merchant
90	Sarah Hall	8787 Sycamore St	Teacher
91	Thomas Young	8888 Chestnut St	Engineer
92	Elizabeth King	8989 Walnut St	Artist
93	John White	9090 Elm St	Lawyer
94	Mary Black	9191 Oak St	Teacher
95	James Green	9292 Pine St	Engineer
96	Elizabeth Brown	9393 Cedar St	Musician
97	William Grey	9494 Spruce St	Farmer
98	Anna King	9595 Willow St	Housewife
99	Charles Lee	9696 Poplar St	Merchant
100	Sarah Hall	9797 Sycamore St	Teacher



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LYCE LCS

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: LYCE LCS

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

Lab File ID: LYC10EQ

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/22/02

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	10	
120-82-1-----	1,2,4-Trichlorobenzene	10	
87-68-3-----	Hexachlorobutadiene	9.9	
91-20-3-----	Naphthalene	10	B
594-20-7-----	2,2-Dichloropropane	10	
563-58-6-----	1,1-Dichloropropene	10	
142-28-9-----	1,3-Dichloropropane	11	
108-86-1-----	Bromobenzene	10	
103-65-1-----	n-Propylbenzene	11	
95-49-8-----	2-Chlorotoluene	10	
106-43-4-----	4-Chlorotoluene	10	
108-67-8-----	1,3,5-Trimethylbenzene	11	
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	9.9	



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LYCE LCSD

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: LYCE LCSD

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

Lab File ID: LYC10EQ2

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/22/02

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	11	
74-87-3	Chloromethane	9.4	
75-01-4	Vinyl Chloride	11	
74-83-9	Bromomethane	5.9	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	9.4	
107-02-8	Acrolein	47	
76-13-1	Freon TF	9.7	
75-35-4	1,1-Dichloroethene	9.8	
67-64-1	Acetone	53	
74-88-4	Methyl Iodide	8.0	
75-15-0	Carbon Disulfide	11	
107-05-1	Allyl Chloride	9.9	
75-09-2	Methylene Chloride	10	
107-13-1	Acrylonitrile	10	
156-60-5	trans-1,2-Dichloroethene	9.9	
540-59-0	1,2-Dichloroethene (total)	21	
1634-04-4	Methyl-t-Butyl Ether	9.7	
75-34-3	1,1-Dichloroethane	10	
108-05-4	Vinyl Acetate	10	
126-99-8	Chloroprene	9.6	
156-59-2	cis-1,2-Dichloroethene	11	
78-93-3	2-Butanone	56	
107-12-0	Propionitrile	40	
126-98-7	Methacrylonitrile	10	
74-97-5	Bromochloromethane	10	
109-99-9	Tetrahydrofuran	150	
67-66-3	Chloroform	10	
71-55-6	1,1,1-Trichloroethane	9.9	
56-23-5	Carbon Tetrachloride	12	
78-83-1	Isobutyl Alcohol	520	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	10	

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Column 1	Column 2	Column 3	Column 4
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LYCE LCSD

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: LYCE LCSD

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

Lab File ID: LYC10EQ2

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/22/02

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

CAS NO.	COMPOUND	Q
79-01-6	Trichloroethene	9.8
78-87-5	1,2-Dichloropropane	10
80-62-6	Methyl Methacrylate	10
74-95-3	Dibromomethane	10
123-91-1	1,4-Dioxane	480
75-27-4	Bromodichloromethane	10
110-75-8	2-Chloroethyl Vinyl Ether	10
10061-01-5	cis-1,3-Dichloropropene	10
108-10-1	4-Methyl-2-pentanone	54
108-88-3	Toluene	11
10061-02-6	trans-1,3-Dichloropropene	10
97-63-2	Ethyl Methacrylate	10
79-00-5	1,1,2-Trichloroethane	10
127-18-4	Tetrachloroethene	10
591-78-6	2-Hexanone	55
124-48-1	Dibromochloromethane	11
106-93-4	1,2-Dibromoethane	10
108-90-7	Chlorobenzene	10
630-20-6	1,1,1,2-Tetrachloroethane	11
100-41-4	Ethylbenzene	10
1330-20-7	Xylene (m,p)	21
1330-20-7	Xylene (total)	32
95-47-6	Xylene (o)	10
100-42-5	Styrene	11
75-25-2	Bromoform	11
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	10
110-57-6	trans-1,4-Dichloro-2-butene	11
541-73-1	1,3-Dichlorobenzene	10
106-46-7	1,4-Dichlorobenzene	10
95-50-1	1,2-Dichlorobenzene	10

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LYCE LCSD

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: LYCE LCSD

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

Lab File ID: LYC10EQ2

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/22/02

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	10	_____
120-82-1-----	1,2,4-Trichlorobenzene	10	_____
87-68-3-----	Hexachlorobutadiene	10	_____
91-20-3-----	Naphthalene	10	B
594-20-7-----	2,2-Dichloropropane	9.6	_____
563-58-6-----	1,1-Dichloropropene	9.8	_____
142-28-9-----	1,3-Dichloropropane	10	_____
108-86-1-----	Bromobenzene	10	_____
103-65-1-----	n-Propylbenzene	10	_____
95-49-8-----	2-Chlorotoluene	10	_____
106-43-4-----	4-Chlorotoluene	10	_____
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	10	_____
104-51-8-----	n-Butylbenzene	11	_____
87-61-6-----	1,2,3-Trichlorobenzene	10	_____



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLY2

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: VBLY2

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

Lab File ID: LYCB01E

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/22/02

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	1.0	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



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKY2

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: VBLKY2

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

Lab File ID: LYCB01E

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/22/02

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
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	1.0	U
123-91-1	1,4-Dioxane	50	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	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	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	1.0	U
591-78-6	2-Hexanone	5.0	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	1.0	U



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VELKY2

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: VELKY2

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

Lab File ID: LYCB01E

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/22/02

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	0.23	J
594-20-7	2,2-Dichloropropane	1.0	U
563-58-6	1,1-Dichloropropene	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



FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

	CLIENT SAMPLE NO.	SMC1 (TOL) #	SMC2 (DCE) #	SMC3 (BFB) #	OTHER (DCB) #	TOT OUT
	=====	=====	=====	=====	=====	=====
01	LYCE LCS	105	96	102	103	0
02	LYCE LCSD	104	96	101	101	0
03	VBLKY2	105	101	105	102	0
04	ARD2180	106	99	108	104	0
05	ARD2181	105	102	107	104	0
06	ARD2177	102	99	108	106	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

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024																																																																																																										
Population	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix Spike - Sample No.: LYCE LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	10		9.3	93	78-116
Chloromethane	10		7.1	71	68-118
Vinyl Chloride	10		8.8	88	78-118
Bromomethane	10		5.1	51*	72-118
Chloroethane	10		9.5	95	65-113
Trichlorofluoromethane	10		8.9	89	67-111
Acrolein	50		44	88	60-140
Freon TF	10		9.8	98	60-140
1,1-Dichloroethene	10		9.2	92	75-113
Acetone	50		48	96	60-140
Methyl Iodide	10		6.8	68	60-140
Carbon Disulfide	10		9.7	97	60-140
Allyl Chloride	10		9.3	93	60-140
Methylene Chloride	10		9.6	96	80-110
Acrylonitrile	10		9.8	98	60-140
trans-1,2-Dichloroethen	10		9.6	96	77-109
1,2-Dichloroethene (tot	20		21	105	60-140
Methyl-t-Butyl Ether	10		9.3	93	60-140
1,1-Dichloroethane	10		9.4	94	81-111
Vinyl Acetate	10		11	110	60-140
Chloroprene	10		9.7	97	60-140
cis-1,2-Dichloroethene	10		11	110	81-121
2-Butanone	50		55	110	60-140
Propionitrile	40		36	90	60-140
Methacrylonitrile	10		9.6	96	60-140
Bromochloromethane	10		10	100	73-107
Tetrahydrofuran	140		140	100	60-140
Chloroform	10		10	100	74-106

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

* Values outside of QC limits

COMMENTS:

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FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix Spike - Sample No.: LYCE LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1,1-Trichloroethane	10		10	100	74-122
Carbon Tetrachloride	10		12	120*	62-106
Isobutyl Alcohol	500		500	100	60-140
Benzene	10		10	100	78-116
1,2-Dichloroethane	10		10	100	80-110
Trichloroethene	10		9.8	98	70-109
1,2-Dichloropropane	10		10	100	79-115
Methyl Methacrylate	10		10	100	60-140
Dibromomethane	10		10	100	83-117
1,4-Dioxane	500		450	90	60-140
Bromodichloromethane	10		10	100	78-112
2-Chloroethyl Vinyl Eth	10		9.7	97	60-140
cis-1,3-Dichloropropene	10		10	100	60-140
4-Methyl-2-pentanone	50		53	106	60-140
Toluene	10		11	110	78-126
trans-1,3-Dichloroprope	10		11	110	60-140
Ethyl Methacrylate	10		9.8	98	60-140
1,1,2-Trichloroethane	10		11	110	81-126
Tetrachloroethene	10		9.6	96	71-107
2-Hexanone	50		55	110	60-140
Dibromochloromethane	10		11	110	72-112
1,2-Dibromoethane	10		11	110	90-114
Chlorobenzene	10		11	110	81-115
1,1,1,2-Tetrachloroetha	10		11	110*	72-108
Ethylbenzene	10		11	110	74-124
Xylene (m,p)	20		21	105	78-116
Xylene (total)	30		32	107	60-140
Xylene (o)	10		10	100	81-125

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

* Values outside of QC limits

COMMENTS:



FIG. 1. A. B. C. D. E. F. G. H. I. J. K. L. M. N. O. P. Q. R. S. T. U. V. W. X. Y. Z. AA. AB. AC. AD. AE. AF. AG. AH. AI. AJ. AK. AL. AM. AN. AO. AP. AQ. AR. AS. AT. AU. AV. AW. AX. AY. AZ. BA. BB. BC. BD. BE. BF. BG. BH. BI. BJ. BK. BL. BM. BN. BO. BP. BQ. BR. BS. BT. BU. BV. BW. BX. BY. BZ. CA. CB. CC. CD. CE. CF. CG. CH. CI. CJ. CK. CL. CM. CN. CO. CP. CQ. CR. CS. CT. CU. CV. CW. CX. CY. CZ. DA. DB. DC. DD. DE. DF. DG. DH. DI. DJ. DK. DL. DM. DN. DO. DP. DQ. DR. DS. DT. DU. DV. DW. DX. DY. DZ. EA. EB. EC. ED. EE. EF. EG. EH. EI. EJ. EK. EL. EM. EN. EO. EP. EQ. ER. ES. ET. EU. EV. EW. EX. EY. EZ. FA. FB. FC. FD. FE. FF. FG. FH. FI. FJ. FK. FL. FM. FN. FO. FP. FQ. FR. FS. FT. FU. FV. FW. FX. FY. FZ. GA. GB. GC. GD. GE. GF. GG. GH. GI. GJ. GK. GL. GM. GN. GO. GP. GQ. GR. GS. GT. GU. GV. GW. GX. GY. GZ. HA. HB. HC. HD. HE. HF. HG. HH. HI. HJ. HK. HL. HM. HN. HO. HP. HQ. HR. HS. HT. HU. HV. HW. HX. HY. HZ. IA. IB. IC. ID. IE. IF. IG. IH. II. IJ. IK. IL. IM. IN. IO. IP. IQ. IR. IS. IT. IU. IV. IW. IX. IY. IZ. JA. JB. JC. JD. JE. JF. JG. JH. JI. JJ. JK. JL. JM. JN. JO. JP. JQ. JR. JS. JT. JU. JV. JW. JX. JY. JZ. KA. KB. KC. KD. KE. KF. KG. KH. KI. KJ. KK. KL. KM. KN. KO. KP. KQ. KR. KS. KT. KU. KV. KW. KX. KY. KZ. LA. LB. LC. LD. LE. LF. LG. LH. LI. LJ. LK. LL. LM. LN. LO. LP. LQ. LR. LS. LT. LU. LV. LW. LX. LY. LZ. MA. MB. MC. MD. ME. MF. MG. MH. MI. MJ. MK. ML. MM. MN. MO. MP. MQ. MR. MS. MT. MU. MV. MW. MX. MY. MZ. NA. NB. NC. ND. NE. NF. NG. NH. NI. NJ. NK. NL. NM. NN. NO. NP. NQ. NR. NS. NT. NU. NV. NW. NX. NY. NZ. OA. OB. OC. OD. OE. OF. OG. OH. OI. OJ. OK. OL. OM. ON. OO. OP. OQ. OR. OS. OT. OU. OV. OW. OX. OY. OZ. PA. PB. PC. PD. PE. PF. PG. PH. PI. PJ. PK. PL. PM. PN. PO. PP. PQ. PR. PS. PT. PU. PV. PW. PX. PY. PZ. QA. QB. QC. QD. QE. QF. QG. QH. QI. QJ. QK. QL. QM. QN. QO. QP. QQ. QR. QS. QT. QU. QV. QW. QX. QY. QZ. RA. RB. RC. RD. RE. RF. RG. RH. RI. RJ. RK. RL. RM. RN. RO. RP. RQ. RR. RS. RT. RU. RV. RW. RX. RY. RZ. SA. SB. SC. SD. SE. SF. SG. SH. SI. SJ. SK. SL. SM. SN. SO. SP. SQ. SR. SS. ST. SU. SV. SW. SX. SY. SZ. TA. TB. TC. TD. TE. TF. TG. TH. TI. TJ. TK. TL. TM. TN. TO. TP. TQ. TR. TS. TT. TU. TV. TW. TX. TY. TZ. UA. UB. UC. UD. UE. UF. UG. UH. UI. UJ. UK. UL. UM. UN. UO. UP. UQ. UR. US. UT. UY. UZ. VA. VB. VC. VD. VE. VF. VG. VH. VI. VJ. VK. VL. VM. VN. VO. VP. VQ. VR. VS. VT. VU. VV. VW. VX. VY. VZ. WA. WB. WC. WD. WE. WF. WG. WH. WI. WJ. WK. WL. WM. WN. WO. WP. WQ. WR. WS. WT. WU. WV. WW. WX. WY. WZ. XA. XB. XC. XD. XE. XF. XG. XH. XI. XJ. XK. XL. XM. XN. XO. XP. XQ. XR. XS. XT. XU. XV. XW. XX. XY. XZ. YA. YB. YC. YD. YE. YF. YG. YH. YI. YJ. YK. YL. YM. YN. YO. YP. YQ. YR. YS. YT. YU. YV. YW. YX. YY. YZ. ZA. ZB. ZC. ZD. ZE. ZF. ZG. ZH. ZI. ZJ. ZK. ZL. ZM. ZN. ZO. ZP. ZQ. ZR. ZS. ZT. ZU. ZV. ZW. ZX. ZY. ZZ.

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix Spike - Sample No.: LYCE LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Styrene	10		11	110	80-124
Bromoform	10		11	110	82-120
Isopropylbenzene	10		11	110	78-124
cis-1,4-Dichloro-2-bute	10		10	100	60-140
1,1,2,2-Tetrachloroetha	10		11	110*	74-108
1,2,3-Trichloropropane	10		10	100	81-137
trans-1,4-Dichloro-2-bu	10		10	100	60-140
1,3-Dichlorobenzene	10		10	100	79-119
1,4-Dichlorobenzene	10		10	100	83-123
1,2-Dichlorobenzene	10		10	100	76-110
1,2-Dibromo-3-Chloropro	10		10	100	33-132
1,2,4-Trichlorobenzene	10		10	100	81-135
Hexachlorobutadiene	10		9.9	99	80-120
Naphthalene	10		10	100	78-130
2,2-Dichloropropane	10		10	100	42-130
1,1-Dichloropropene	10		10	100	72-124
1,3-Dichloropropane	10		11	110	79-113
Bromobenzene	10		10	100	84-116
n-Propylbenzene	10		11	110	83-117
2-Chlorotoluene	10		10	100	73-107
4-Chlorotoluene	10		10	100	74-124
1,3,5-Trimethylbenzene	10		11	110	72-112
tert-Butylbenzene	10		11	110	80-124
1,2,4-Trimethylbenzene	10		10	100	75-123
sec-Butylbenzene	10		11	110	77-123
4-Isopropyltoluene	10		11	110	79-119
n-Butylbenzene	10		11	110	77-123
1,2,3-Trichlorobenzene	10		9.9	99	81-137

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.: 89326

Matrix Spike - Sample No.: LYCE LCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Dichlorodifluoromethane	10	11	110	17	40	78-116
Chloromethane	10	9.4	94	28	40	68-118
Vinyl Chloride	10	11	110	22	40	78-118
Bromomethane	10	5.9	59*	14	40	72-118
Chloroethane	10	11	110	15	40	65-113
Trichlorofluoromethane	10	9.4	94	5	40	67-111
Acrolein	50	47	94	6	40	60-140
Freon TF	10	9.7	97	1	40	60-140
1,1-Dichloroethene	10	9.8	98	6	40	75-113
Acetone	50	53	106	10	40	60-140
Methyl Iodide	10	8.0	80	16	40	60-140
Carbon Disulfide	10	11	110	12	40	60-140
Allyl Chloride	10	9.9	99	6	40	60-140
Methylene Chloride	10	10	100	4	40	80-110
Acrylonitrile	10	10	100	2	40	60-140
trans-1,2-Dichloroethen	10	9.9	99	3	40	77-109
1,2-Dichloroethene (tot	20	21	105	0	40	60-140
Methyl-t-Butyl Ether	10	9.7	97	4	40	60-140
1,1-Dichloroethane	10	10	100	6	40	81-111
Vinyl Acetate	10	10	100	10	40	60-140
Chloroprene	10	9.6	96	1	40	60-140
cis-1,2-Dichloroethene	10	11	110	0	40	81-121
2-Butanone	50	56	112	2	40	60-140
Propionitrile	40	40	100	10	40	60-140
Methacrylonitrile	10	10	100	4	40	60-140
Bromochloromethane	10	10	100	0	40	73-107
Tetrahydrofuran	140	150	107	7	40	60-140
Chloroform	10	10	100	0	40	74-106

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.: 89326

Matrix Spike - Sample No.: LYCE LCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1,1,1-Trichloroethane	10	9.9	99	1	40	74-122
Carbon Tetrachloride	10	12	120*	0	40	62-106
Isobutyl Alcohol	500	520	104	4	40	60-140
Benzene	10	10	100	0	40	78-116
1,2-Dichloroethane	10	10	100	0	40	80-110
Trichloroethene	10	9.8	98	0	40	70-109
1,2-Dichloropropane	10	10	100	0	40	79-115
Methyl Methacrylate	10	10	100	0	40	60-140
Dibromomethane	10	10	100	0	40	83-117
1,4-Dioxane	500	480	96	6	40	60-140
Bromodichloromethane	10	10	100	0	40	78-112
2-Chloroethyl Vinyl Eth	10	10	100	3	40	60-140
cis-1,3-Dichloropropene	10	10	100	0	40	60-140
4-Methyl-2-pentanone	50	54	108	2	40	60-140
Toluene	10	11	110	0	40	78-126
trans-1,3-Dichloroprope	10	10	100	10	40	60-140
Ethyl Methacrylate	10	10	100	2	40	60-140
1,1,2-Trichloroethane	10	10	100	10	40	81-126
Tetrachloroethene	10	10	100	4	40	71-107
2-Hexanone	50	55	110	0	40	60-140
Dibromochloromethane	10	11	110	0	40	72-112
1,2-Dibromoethane	10	10	100	10	40	90-114
Chlorobenzene	10	10	100	10	40	81-115
1,1,1,2-Tetrachloroetha	10	11	110*	0	40	72-108
Ethylbenzene	10	10	100	10	40	74-124
Xylene (m,p)	20	21	105	0	40	78-116
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:



FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix Spike - Sample No.: LYCE LCS

COMPOUND	SPIKE ADDED (ug/L)	LCS D CONCENTRATION (ug/L)	LCS D % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Styrene	10	11	110	0	40	80-124
Bromoform	10	11	110	0	40	82-120
Isopropylbenzene	10	10	100	10	40	78-124
cis-1,4-Dichloro-2-bute	10	11	110	10	40	60-140
1,1,2,2-Tetrachloroetha	10	11	110*	0	40	74-108
1,2,3-Trichloropropane	10	10	100	0	40	81-137
trans-1,4-Dichloro-2-bu	10	11	110	10	40	60-140
1,3-Dichlorobenzene	10	10	100	0	40	79-119
1,4-Dichlorobenzene	10	10	100	0	40	83-123
1,2-Dichlorobenzene	10	10	100	0	40	76-110
1,2-Dibromo-3-Chloropro	10	10	100	0	40	33-132
1,2,4-Trichlorobenzene	10	10	100	0	40	81-135
Hexachlorobutadiene	10	10	100	1	40	80-120
Naphthalene	10	10	100	0	40	78-130
2,2-Dichloropropane	10	9.6	96	4	40	42-130
1,1-Dichloropropene	10	9.8	98	2	40	72-124
1,3-Dichloropropane	10	10	100	10	40	79-113
Bromobenzene	10	10	100	0	40	84-116
n-Propylbenzene	10	10	100	10	40	83-117
2-Chlorotoluene	10	10	100	0	40	73-107
4-Chlorotoluene	10	10	100	0	40	74-124
1,3,5-Trimethylbenzene	10	10	100	10	40	72-112
tert-Butylbenzene	10	11	110	0	40	80-124
1,2,4-Trimethylbenzene	10	10	100	0	40	75-123
sec-Butylbenzene	10	11	110	0	40	77-123
4-Isopropyltoluene	10	10	100	10	40	79-119
n-Butylbenzene	10	11	110	0	40	77-123
1,2,3-Trichlorobenzene	10	10	100	1	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: 8 out of 168 outside limits

COMMENTS:

Date	Description	Debit	Credit	Balance
1912				
Jan 1	Balance forward			
Jan 15	...			
Jan 20	...			
Jan 25	...			
Jan 30	...			
Feb 1	...			
Feb 5	...			
Feb 10	...			
Feb 15	...			
Feb 20	...			
Feb 25	...			
Feb 30	...			
Mar 1	...			
Mar 5	...			
Mar 10	...			
Mar 15	...			
Mar 20	...			
Mar 25	...			
Mar 30	...			
Apr 1	...			
Apr 5	...			
Apr 10	...			
Apr 15	...			
Apr 20	...			
Apr 25	...			
Apr 30	...			
May 1	...			
May 5	...			
May 10	...			
May 15	...			
May 20	...			
May 25	...			
May 30	...			
Jun 1	...			
Jun 5	...			
Jun 10	...			
Jun 15	...			
Jun 20	...			
Jun 25	...			
Jun 30	...			
Jul 1	...			
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Jul 10	...			
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Oct 1	...			
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Oct 25	...			
Oct 30	...			
Nov 1	...			
Nov 5	...			
Nov 10	...			
Nov 15	...			
Nov 20	...			
Nov 25	...			
Nov 30	...			
Dec 1	...			
Dec 5	...			
Dec 10	...			
Dec 15	...			
Dec 20	...			
Dec 25	...			
Dec 30	...			

... ..

...

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKY2

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Lab File ID: LYCB01E

Lab Sample ID: VBLKY2

Date Analyzed: 08/22/02

Time Analyzed: 0313

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	LYCE LCS	LYCE LCS	LYC10EQ	0216
02	LYCE LCSD	LYCE LCSD	LYC10EQ2	0245
03	ARD2180	498081	498081D	0520
04	ARD2181	498082	498082D	0549
05	ARD2177	498083	498083	0617
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1. Introduction
2. Methodology
3. Results
4. Discussion
5. Conclusion

The following table shows the results of the experiment. The data was collected over a period of 10 days. The results are presented in the following table:

Day	Temperature (°C)	Humidity (%)	Wind Speed (km/h)
1	25	60	10
2	26	62	12
3	27	65	15
4	28	68	18
5	29	70	20
6	30	72	22
7	31	75	25
8	32	78	28
9	33	80	30
10	34	82	32

The data shows a clear upward trend in all three variables over the 10-day period. The temperature increased from 25°C to 34°C, humidity from 60% to 82%, and wind speed from 10 km/h to 32 km/h. This suggests a significant change in the weather conditions over the period.

References
1. Smith, J. (2010). The effects of temperature and humidity on wind speed. *Journal of Meteorology*, 45(1), 1-10.
2. Jones, A. (2012). The relationship between temperature, humidity, and wind speed. *Weather*, 62(1), 1-5.

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.: 89326

Lab File ID: LYC08PV

BFB Injection Date: 08/22/02

Instrument ID: L

BFB Injection Time: 0137

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	26.2
75	30.0 - 60.0% of mass 95	49.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 120.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	4.6 (7.0)1
176	95.0 - 101.0% of mass 174	65.6 (98.6)1
177	5.0 - 9.0% of mass 176	4.5 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	LYC10EV	08/22/02	0148
02	LYCE LCS	LYCE LCS	LYC10EQ	08/22/02	0216
03	LYCE LCSD	LYCE LCSD	LYC10EQ2	08/22/02	0245
04	VBLKY2	VBLKY2	LYCB01E	08/22/02	0313
05	ARD2180	498081	498081D	08/22/02	0520
06	ARD2181	498082	498082D	08/22/02	0549
07	ARD2177	498083	498083	08/22/02	0617
08					
09					
10					
11					
12					
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16					
17					
18					
19					
20					
21					
22					

Section 1: Introduction

The purpose of this document is to provide a comprehensive overview of the project's objectives and scope.

1.1 Project Objectives

Objective	Description	Priority
1.1.1	Define the project scope and deliverables.	High
1.1.2	Identify the project stakeholders and their roles.	Medium
1.1.3	Develop a detailed project schedule and timeline.	High
1.1.4	Allocate resources and budget for the project.	Medium
1.1.5	Establish communication channels and reporting mechanisms.	Low

Section 2: Methodology

Methodology	Tools	Resources	Timeline	Dependencies
2.1	Project Management Software	Project Manager	Week 1-2	Stakeholder Identification
2.2	Resource Allocation	Team Lead	Week 3-4	Resource Availability
2.3	Schedule Development	Team Lead	Week 5-6	Task Dependencies
2.4	Budgeting	Finance Team	Week 7-8	Budget Approval
2.5	Communication Setup	Team Lead	Week 9-10	Stakeholder Engagement

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Instrument ID: L

Calibration Date(s): 08/19/02 08/19/02

Heated Purge: (Y/N) N

Calibration Time(s): 0821

1055

GC Column: CAP

ID: 0.53 (mm)

LAB FILE ID:		RRF1 =LYC01V		RRF5 =LYC05V			
RRF10 =LYC10V		RRF25 =LYC25V		RRF50 =LYC50V			
COMPOUND	RRF1	RRF5	RRF10	RRF25	RRF50	RRF	% RSD
Dichlorodifluoromethane	0.542	0.581	0.598	0.660	0.741	0.624	12.4
Chloromethane	* 0.330	0.324	0.315	0.400	0.533	0.380	24.1* <-
Vinyl Chloride	0.288	0.295	0.307	0.374	0.453	0.343	20.5
Bromomethane	0.350	0.298	0.267	0.263	0.287	0.293	11.8
Chloroethane	0.164	0.166	0.158	0.169	0.175	0.166	4.0
Trichlorofluoromethane	0.585	0.669	0.649	0.710	0.843	0.691	13.9
Acrolein	0.031	0.038	0.037	0.042	0.057	0.041	23.7
Freon TF	0.505	0.553	0.492	0.520	0.642	0.542	11.1
1,1-Dichloroethene	0.265	0.278	0.272	0.291	0.392	0.300	17.6
Acetone	0.058	0.057	0.062	0.071	0.089	0.067	19.7
Methyl Iodide	0.261	0.383	0.380	0.444	0.543	0.402	25.6
Carbon Disulfide	0.610	0.663	0.626	0.685	0.946	0.706	19.4
Allyl Chloride	0.353	0.403	0.371	0.411	0.548	0.417	18.4
Methylene Chloride	0.251	0.288	0.279	0.290	0.384	0.298	16.9
Acrylonitrile	0.079	0.065	0.065	0.068	0.089	0.073	14.3
trans-1,2-Dichloroethene	0.292	0.297	0.270	0.287	0.355	0.300	10.8
1,2-Dichloroethene (total)	0.290	0.304	0.281	0.301	0.351	0.305	8.9
Methyl-t-Butyl Ether	0.606	0.582	0.552	0.594	0.634	0.594	5.1
1,1-Dichloroethane	* 0.578	0.620	0.592	0.634	0.730	0.631	9.5*
Vinyl Acetate	0.428	0.450	0.428	0.445	0.446	0.439	2.4
Chloroprene	0.425	0.504	0.464	0.469	0.551	0.483	9.9
cis-1,2-Dichloroethene	0.287	0.311	0.292	0.314	0.347	0.310	7.6
2-Butanone	0.017	0.019	0.017	0.021	0.020	0.019	8.9
Propionitrile	0.026	0.026	0.024	0.027	0.030	0.027	8.4
Methacrylonitrile	0.073	0.077	0.070	0.074	0.075	0.074	3.4
Bromochloromethane	0.237	0.241	0.236	0.253	0.285	0.250	8.1
Tetrahydrofuran	0.062	0.068	0.064	0.069	0.073	0.067	6.2
Chloroform	0.698	0.705	0.704	0.726	0.792	0.725	5.4
1,1,1-Trichloroethane	0.591	0.651	0.596	0.628	0.649	0.623	4.6
Carbon Tetrachloride	0.322	0.548	0.476	0.548	0.583	0.495	21.1
Isobutyl Alcohol	0.009	0.010	0.009	0.011	0.012	0.010	10.6
Benzene	0.890	0.843	0.827	0.858	0.950	0.874	5.6
1,2-Dichloroethane	0.523	0.504	0.520	0.534	0.545	0.525	2.9
Trichloroethene	0.466	0.430	0.448	0.449	0.480	0.455	4.2
1,2-Dichloropropane	0.387	0.394	0.397	0.417	0.452	0.409	6.4
Methyl Methacrylate	0.206	0.222	0.190	0.199	0.183	0.200	7.6
Dibromomethane	0.404	0.408	0.421	0.432	0.461	0.425	5.4

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



6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Instrument ID: L

Calibration Date(s): 08/19/02 08/19/02

Heated Purge: (Y/N) N

Calibration Time(s): 0821

1055

GC Column: CAP

ID: 0.53 (mm)

LAB FILE ID:	RRF1 =LYC01V	RRF5 =LYC05V					
RRF10 =LYC10V	RRF25 =LYC25V	RRF50 =LYC50V					
COMPOUND	RRF1	RRF5	RRF10	RRF25	RRF50	RRF	% RSD
1,4-Dioxane	0.002	0.003	0.002	0.003	0.004	0.003	17.9 <-
Bromodichloromethane	0.602	0.681	0.645	0.689	0.734	0.670	7.4
2-Chloroethyl Vinyl Ether	0.229	0.218	0.217	0.226	0.228	0.224	2.5
cis-1,3-Dichloropropene	0.478	0.548	0.534	0.561	0.616	0.547	9.1
4-Methyl-2-pentanone	0.315	0.317	0.317	0.348	0.354	0.330	5.8
Toluene	0.624	0.625	0.607	0.640	0.632	0.626	1.9
trans-1,3-Dichloropropene	0.450	0.532	0.484	0.515	0.498	0.496	6.3
Ethyl Methacrylate	0.431	0.422	0.445	0.490	0.525	0.463	9.4
1,1,2-Trichloroethane	0.300	0.316	0.292	0.302	0.291	0.300	3.3
Tetrachloroethene	0.627	0.586	0.580	0.653	0.671	0.623	6.5
2-Hexanone	0.203	0.229	0.223	0.250	0.240	0.229	7.7
Dibromochloromethane	0.526	0.653	0.596	0.666	0.667	0.622	9.8
1,2-Dibromoethane	0.489	0.580	0.544	0.582	0.578	0.555	7.2
Chlorobenzene	* 0.894	0.901	0.875	0.940	0.938	0.910	3.2*
1,1,1,2-Tetrachloroethane	0.378	0.476	0.424	0.460	0.459	0.439	8.9
Ethylbenzene	1.338	1.354	1.361	1.444	1.468	1.393	4.2
Xylene (m,p)	0.515	0.525	0.537	0.563	0.572	0.542	4.5
Xylene (total)	0.503	0.496	0.514	0.551	0.558	0.524	5.4
Xylene (o)	0.503	0.496	0.514	0.551	0.558	0.524	5.4
Styrene	0.818	0.854	0.882	0.942	0.968	0.893	6.9
Bromoform	* 0.328	0.473	0.446	0.508	0.522	0.455	17.0* <-
Isopropylbenzene	2.533	2.526	2.542	2.594	2.656	2.570	2.1
cis-1,4-Dichloro-2-butene	0.142	0.192	0.208	0.240	0.252	0.207	21.1
1,1,2,2-Tetrachloroethane	* 0.890	1.008	0.977	1.017	1.041	0.987	5.9*
1,2,3-Trichloropropane	0.277	0.294	0.277	0.286	0.288	0.284	2.6
trans-1,4-Dichloro-2-butene	0.191	0.241	0.242	0.257	0.275	0.241	12.9
1,3-Dichlorobenzene	1.432	1.404	1.448	1.491	1.521	1.459	3.2
1,4-Dichlorobenzene	1.529	1.495	1.495	1.549	1.603	1.534	2.9
1,2-Dichlorobenzene	1.280	1.297	1.303	1.352	1.382	1.323	3.2
1,2-Dibromo-3-Chloropropane	0.221	0.221	0.236	0.247	0.274	0.240	9.2
1,2,4-Trichlorobenzene	1.064	1.054	1.083	1.119	1.175	1.099	4.5
Hexachlorobutadiene	0.768	0.730	0.717	0.759	0.784	0.752	3.7
Naphthalene	1.682	1.867	1.861	2.012	2.167	1.918	9.5
2,2-Dichloropropane	0.524	0.571	0.456	0.501	0.472	0.505	9.0
1,1-Dichloropropene	0.485	0.503	0.478	0.509	0.542	0.503	4.9
1,3-Dichloropropane	0.549	0.598	0.537	0.566	0.554	0.561	4.2
Bromobenzene	0.824	0.835	0.838	0.865	0.885	0.849	3.0

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

1. The first part of the document discusses the importance of maintaining accurate records of all transactions.

2. It is essential to ensure that all entries are supported by appropriate documentation, such as receipts and invoices.

3. Regularly reconciling accounts and reviewing statements can help identify any discrepancies or errors.

4. Maintaining a clear and organized system for record-keeping is crucial for the accuracy and reliability of financial data.

5. It is also important to ensure that all records are stored securely and protected from unauthorized access.

6. Finally, it is recommended to consult with a professional accountant or auditor to ensure compliance with applicable regulations.

7. By following these guidelines, you can ensure that your financial records are accurate, complete, and reliable.

8. This will help you make informed decisions and maintain the integrity of your financial information.

9. Thank you for your attention to this important matter.

10. We appreciate your cooperation and commitment to maintaining accurate financial records.

11. Please do not hesitate to contact us if you have any questions or need further assistance.

12. We are committed to providing you with the highest quality service and support.

13. Thank you again for your trust and partnership.

14. We look forward to continuing our relationship with you.

15. Sincerely,
[Signature]

[Name]
[Title]
[Company]

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLV

Case No.: 98011

SAS No.:

SDG No.: 89326

Instrument ID: L

Calibration Date: 08/22/02

Time: 0148

Lab File ID: LYC10EV

Init. Calib. Date(s): 08/19/02

08/19/02

Heated Purge: (Y/N) N

Init. Calib. Times: 0821

1055

GC Column: CAP

ID: 0.53 (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.624	0.660	0.01	5.8	20.0
Chloromethane	0.380	0.296	0.1	22.1	20.0
Vinyl Chloride	0.343	0.331	0.01	3.5	20.0
Bromomethane	0.293	0.157	0.01	46.4	20.0
Chloroethane	0.166	0.182	0.01	9.6	20.0
Trichlorofluoromethane	0.691	0.712	0.01	3.0	20.0
Acrolein	0.041	0.038	0.01	7.3	20.0
Freon TF	0.542	0.572	0.01	5.5	20.0
1,1-Dichloroethene	0.300	0.285	0.01	5.0	20.0
Acetone	0.067	0.056	0.01	16.4	20.0
Methyl Iodide	0.402	0.280	0.01	30.3	20.0
Carbon Disulfide	0.706	0.715	0.01	1.3	20.0
Allyl Chloride	0.417	0.433	0.01	3.8	20.0
Methylene Chloride	0.298	0.274	0.01	8.0	20.0
Acrylonitrile	0.073	0.069	0.01	5.5	20.0
trans-1,2-Dichloroethene	0.300	0.314	0.01	4.7	20.0
1,2-Dichloroethene (total)	0.305	0.321	0.01	5.2	20.0
Methyl-t-Butyl Ether	0.594	0.585	0.01	1.5	20.0
1,1-Dichloroethane	0.631	0.635	0.1	0.6	20.0
Vinyl Acetate	0.439	0.504	0.01	14.8	20.0
Chloroprene	0.483	0.508	0.01	5.2	20.0
cis-1,2-Dichloroethene	0.310	0.329	0.01	6.1	20.0
2-Butanone	0.019	0.020	0.01	5.3	20.0
Propionitrile	0.027	0.024	0.01	11.1	20.0
Methacrylonitrile	0.074	0.076	0.01	2.7	20.0
Bromochloromethane	0.250	0.240	0.01	4.0	20.0
Tetrahydrofuran	0.067	0.068	0.01	1.5	20.0
Chloroform	0.725	0.714	0.01	1.5	20.0
1,1,1-Trichloroethane	0.623	0.654	0.01	5.0	20.0
Carbon Tetrachloride	0.495	0.647	0.01	30.7	20.0
Isobutyl Alcohol	0.010	0.010	0.01	0.0	20.0
Benzene	0.874	0.883	0.01	1.0	20.0
1,2-Dichloroethane	0.525	0.520	0.01	1.0	20.0
Trichloroethene	0.455	0.421	0.01	7.5	20.0
1,2-Dichloropropane	0.409	0.412	0.01	0.7	20.0
Methyl Methacrylate	0.200	0.220	0.01	10.0	20.0
Dibromomethane	0.425	0.418	0.01	1.6	20.0

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the integrity of the financial system and for the ability to detect and prevent fraud.

2. The second part of the document outlines the specific requirements for record-keeping, including the need to maintain original documents and to keep copies of all supporting documents. It also discusses the importance of ensuring that records are stored in a secure and accessible manner.

3. The third part of the document discusses the importance of regular audits and reviews of records. It emphasizes that audits are necessary to ensure that records are accurate and complete, and to identify any areas where improvements can be made.

4. The fourth part of the document discusses the importance of training and education for staff involved in record-keeping. It emphasizes that staff must be properly trained and educated to ensure that records are maintained in accordance with the requirements of the law.

5. The fifth part of the document discusses the importance of maintaining records for a sufficient period of time. It emphasizes that records must be kept for a minimum of seven years, and that longer periods may be required in certain circumstances.

6. The sixth part of the document discusses the importance of ensuring that records are accessible to authorized personnel. It emphasizes that records must be stored in a manner that allows for easy retrieval and access by those who need them.

7. The seventh part of the document discusses the importance of ensuring that records are protected from unauthorized access and disclosure. It emphasizes that records must be stored in a secure manner and that appropriate controls must be in place to prevent unauthorized access.

8. The eighth part of the document discusses the importance of ensuring that records are destroyed in a secure and controlled manner. It emphasizes that records must be destroyed in accordance with the requirements of the law, and that appropriate controls must be in place to prevent unauthorized access to records during the destruction process.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Instrument ID: L

Calibration Date: 08/22/02

Time: 0148

Lab File ID: LYC10EV

Init. Calib. Date(s): 08/19/02

08/19/02

Heated Purge: (Y/N) N

Init. Calib. Times: 0821

1055

GC Column: CAP

ID: 0.53 (mm)

COMPOUND	RRF	RRF10	MIN RRF	%D	MAX %D
1,4-Dioxane	0.003	0.002	0.01	33.3	20.0
Bromodichloromethane	0.670	0.696	0.01	3.9	20.0
2-Chloroethyl Vinyl Ether	0.224	0.211	0.01	5.8	20.0
cis-1,3-Dichloropropene	0.547	0.564	0.01	3.1	20.0
4-Methyl-2-pentanone	0.330	0.316	0.01	4.2	20.0
Toluene	0.626	0.653	0.01	4.3	20.0
trans-1,3-Dichloropropene	0.496	0.581	0.01	17.1	20.0
Ethyl Methacrylate	0.463	0.420	0.01	9.3	20.0
1,1,2-Trichloroethane	0.300	0.345	0.01	15.0	20.0
Tetrachloroethene	0.623	0.552	0.01	11.4	20.0
2-Hexanone	0.229	0.234	0.01	2.2	20.0
Dibromochloromethane	0.622	0.735	0.01	18.2	20.0
1,2-Dibromoethane	0.555	0.626	0.01	12.8	20.0
Chlorobenzene	0.910	0.936	0.3	2.8	20.0
1,1,1,2-Tetrachloroethane	0.439	0.513	0.01	16.8	20.0
Ethylbenzene	1.393	1.424	0.01	2.2	20.0
Xylene (m,p)	0.542	0.547	0.01	0.9	20.0
Xylene (total)	0.524	0.536	0.01	2.3	20.0
Xylene (o)	0.524	0.536	0.01	2.3	20.0
Styrene	0.893	0.924	0.01	3.5	20.0
Bromoform	0.455	0.522	0.1	14.7	20.0
Isopropylbenzene	2.570	2.670	0.01	3.9	20.0
cis-1,4-Dichloro-2-butene	0.207	0.228	0.01	10.1	20.0
1,1,2,2-Tetrachloroethane	0.987	1.078	0.3	9.2	20.0
1,2,3-Trichloropropane	0.284	0.295	0.01	3.9	20.0
trans-1,4-Dichloro-2-butene	0.241	0.260	0.01	7.9	20.0
1,3-Dichlorobenzene	1.459	1.464	0.01	0.3	20.0
1,4-Dichlorobenzene	1.534	1.552	0.01	1.2	20.0
1,2-Dichlorobenzene	1.323	1.354	0.01	2.3	20.0
1,2-Dibromo-3-Chloropropane	0.240	0.237	0.01	1.2	20.0
1,2,4-Trichlorobenzene	1.099	1.108	0.01	0.8	20.0
Hexachlorobutadiene	0.752	0.734	0.01	2.4	20.0
Naphthalene	1.918	1.884	0.01	1.8	20.0
2,2-Dichloropropane	0.505	0.567	0.01	12.3	20.0
1,1-Dichloropropene	0.503	0.527	0.01	4.8	20.0
1,3-Dichloropropane	0.561	0.624	0.01	11.2	20.0
Bromobenzene	0.849	0.862	0.01	1.5	20.0

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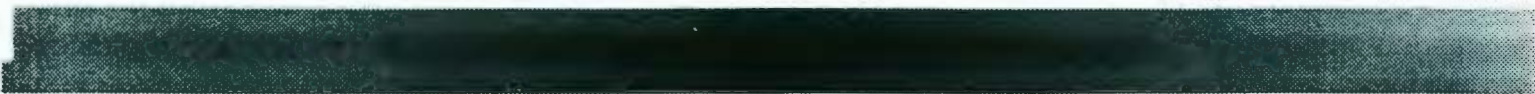
Date	Description	Particulars	Debit	Credit
1998	Jan 1	Balance		
1998	Jan 15	Sales		
1998	Jan 20	Sales		
1998	Jan 25	Sales		
1998	Jan 30	Sales		
1998	Feb 5	Sales		
1998	Feb 10	Sales		
1998	Feb 15	Sales		
1998	Feb 20	Sales		
1998	Feb 25	Sales		
1998	Feb 28	Sales		
1998	Mar 5	Sales		
1998	Mar 10	Sales		
1998	Mar 15	Sales		
1998	Mar 20	Sales		
1998	Mar 25	Sales		
1998	Mar 30	Sales		
1998	Apr 5	Sales		
1998	Apr 10	Sales		
1998	Apr 15	Sales		
1998	Apr 20	Sales		
1998	Apr 25	Sales		
1998	Apr 30	Sales		



Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR 524.2



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

ARD2168

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498084

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

Lab File ID: 498084

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	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	0.60	
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

ENGSC2 SAMPLE NO.

ARD2168

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498084

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

Lab File ID: 498084

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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-----	Chloroacetonitrile	25	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	U
513-88-2-----	1,1-Dichloropropanone	10	U
108-10-1-----	4-Methyl-2-Pentanone	2.5	U
79-46-9-----	2-Nitropropane	10	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-----	Bromoform	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
108-86-1-----	Bromobenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
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

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

ARD2168

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498084

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

Lab File ID: 498084

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for ensuring the integrity of the financial statements and for providing a clear audit trail. The text also mentions that proper record-keeping is essential for identifying trends and anomalies in the data.

2. The second part of the document focuses on the role of internal controls in preventing fraud and errors. It highlights that a strong internal control system is necessary to ensure that all transactions are properly authorized and recorded. The text also notes that internal controls should be designed to be effective and efficient, and should be regularly reviewed and updated.

3. The third part of the document discusses the importance of transparency and disclosure in financial reporting. It emphasizes that providing clear and concise information to stakeholders is essential for building trust and confidence in the organization. The text also mentions that transparency is a key component of corporate governance and is necessary for ensuring the long-term success of the organization.

Account Name	Balance	Debit	Credit
Accounts Receivable	10,000		
Accounts Payable	5,000		
Inventory	2,000		
Fixed Assets	15,000		
Equity	32,000		
Liabilities	17,000		
Total	66,000		

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR0037

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498085

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

Lab File ID: 498085

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	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	4.2	J
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

ENGSC2 SAMPLE NO.

TR0037

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498085

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

Lab File ID: 498085

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	Chloroacetonitrile	25	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
513-88-2	1,1-Dichloropropanone	10	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
79-46-9	2-Nitropropane	10	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	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
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

1. Name of the person
2. Address
3. City
4. State
5. Zip

Name	Address	City	State	Zip
John Doe	123 Main St	New York	NY	10001
Jane Smith	456 Elm St	Los Angeles	CA	90001
Bob Johnson	789 Oak St	Chicago	IL	60601
Alice Brown	101 Pine St	Houston	TX	77001
Charlie White	202 Cedar St	Phoenix	AZ	85001
Diana Green	303 Birch St	Philadelphia	PA	19101
Frank Black	404 Spruce St	San Antonio	TX	78101
Grace King	505 Willow St	San Diego	CA	92101
Henry Lee	606 Ash St	San Jose	CA	95101
Ivy Hill	707 Maple St	San Francisco	CA	94101
Jack Adams	808 Hickory St	Seattle	WA	98101
Karen Baker	909 Walnut St	Portland	OR	97201
Liam Clark	1010 Chestnut St	Denver	CO	80201
Mia Evans	1111 Olive St	San Francisco	CA	94101
Noah Foster	1212 Elm St	Los Angeles	CA	90001
Olivia Grant	1313 Pine St	Chicago	IL	60601
Peter Harris	1414 Oak St	Houston	TX	77001
Quinn King	1515 Cedar St	Phoenix	AZ	85001
Rachel Lee	1616 Birch St	Philadelphia	PA	19101
Samuel White	1717 Spruce St	San Antonio	TX	78101
Tina Green	1818 Willow St	San Diego	CA	92101
Umar Black	1919 Ash St	San Jose	CA	95101
Victoria King	2020 Maple St	San Francisco	CA	94101
William Lee	2121 Hickory St	Seattle	WA	98101
Xavier Baker	2222 Walnut St	Portland	OR	97201
Yara Clark	2323 Chestnut St	Denver	CO	80201
Zoe Evans	2424 Olive St	San Francisco	CA	94101

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR0037

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498085

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

Lab File ID: 498085

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for ensuring the integrity of the financial statements and for providing a clear audit trail. The text also mentions that proper record-keeping is essential for identifying trends and anomalies in the data.

2. The second part of the document focuses on the role of internal controls in preventing fraud and errors. It highlights that a strong internal control system is necessary to ensure that all transactions are properly authorized, recorded, and reviewed. The text also notes that internal controls should be designed to be effective and efficient, and should be regularly updated to reflect changes in the business environment.

3. The third part of the document discusses the importance of transparency and communication in financial reporting. It emphasizes that providing clear and concise information to stakeholders is essential for building trust and confidence in the organization. The text also mentions that transparency is a key component of corporate governance and is necessary for ensuring the long-term success of the business.

Account Name	Balance	Debit	Credit
Accounts Receivable	10,000		
Accounts Payable	5,000		
Inventory	2,000		
Fixed Assets	15,000		
Equity	32,000		
Liabilities	17,000		
Total	66,000		

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR0038

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498086

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

Lab File ID: 498086

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	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

ENGSC2 SAMPLE NO.

TR0038

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498086

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

Lab File ID: 498086

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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

CAS NO. COMPOUND 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	Chloroacetonitrile	25	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
513-88-2	1,1-Dichloropropanone	10	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
79-46-9	2-Nitropropane	10	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	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
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

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Date	Description	Amount	Balance
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR0038

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498086

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

Lab File ID: 498086

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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

Section 1: Introduction

This document is intended to provide information regarding the project and its objectives. The primary goal is to ensure that all stakeholders are aligned and have a clear understanding of the project's scope and timeline.

Section 2: Objectives

The main objectives of this project are to:

- Improve operational efficiency.
- Reduce costs associated with the current process.
- Enhance customer satisfaction.

Item	Description	Quantity	Unit Price	Total Price
1	Material A	100	\$5.00	\$500.00
2	Material B	200	\$3.00	\$600.00
3	Material C	50	\$10.00	\$500.00
4	Material D	150	\$4.00	\$600.00
5	Material E	75	\$8.00	\$600.00
6	Material F	120	\$5.00	\$600.00
7	Material G	30	\$20.00	\$600.00
8	Material H	60	\$10.00	\$600.00
9	Material I	90	\$6.67	\$600.00
10	Material J	180	\$3.33	\$600.00

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2091

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498072

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

Lab File ID: 498072D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.3

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.65	U
74-87-3	Chloromethane	0.65	U
75-01-4	Vinyl Chloride	0.65	U
74-83-9	Bromomethane	0.65	U
75-00-3	Chloroethane	0.65	U
75-69-4	Trichlorofluoromethane	0.65	U
60-29-7	Diethyl Ether	0.65	U
75-35-4	1,1-Dichloroethene	0.65	U
67-64-1	Acetone	6.5	U
74-88-4	Methyl Iodide	0.65	U
75-15-0	Carbon Disulfide	0.65	U
107-05-1	Allyl Chloride	0.65	U
75-09-2	Methylene Chloride	0.65	U
107-13-1	Acrylonitrile	0.65	U
156-60-5	trans-1,2-Dichloroethene	0.65	U
1634-04-4	Methyl-t-Butyl Ether	0.65	U
75-34-3	1,1-Dichloroethane	0.65	U
594-20-7	2,2-Dichloropropane	0.65	U
156-59-2	cis-1,2-Dichloroethene	25	
78-93-3	2-Butanone	6.5	U
107-12-0	Propionitrile	32	U
96-33-3	Methyl Acrylate	0.65	U
74-97-5	Bromochloromethane	0.65	U
126-98-7	Methacrylonitrile	0.65	U
109-99-9	Tetrahydrofuran	3.2	U
67-66-3	Chloroform	0.65	U
71-55-6	1,1,1-Trichloroethane	0.65	U
109-69-3	1-Chlorobutane	0.65	U
56-23-5	Carbon Tetrachloride	0.65	U
563-58-6	1,1-Dichloropropene	0.65	U
71-43-2	Benzene	0.65	U
107-06-2	1,2-Dichloroethane	0.65	U
79-01-6	Trichloroethene	6.0	

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial statements and for providing a clear audit trail. The second part of the document outlines the various methods used to collect and analyze data, including interviews, focus groups, and surveys. The third part of the document describes the results of the research, which show that there is a strong correlation between the use of accurate records and the reliability of the financial statements. The fourth part of the document discusses the implications of these findings for practice and for policy. Finally, the fifth part of the document provides a conclusion and a list of references.

2. The second part of the document discusses the various methods used to collect and analyze data, including interviews, focus groups, and surveys. The third part of the document describes the results of the research, which show that there is a strong correlation between the use of accurate records and the reliability of the financial statements. The fourth part of the document discusses the implications of these findings for practice and for policy. Finally, the fifth part of the document provides a conclusion and a list of references.

3. The third part of the document describes the results of the research, which show that there is a strong correlation between the use of accurate records and the reliability of the financial statements. The fourth part of the document discusses the implications of these findings for practice and for policy. Finally, the fifth part of the document provides a conclusion and a list of references.

4. The fourth part of the document discusses the implications of these findings for practice and for policy. Finally, the fifth part of the document provides a conclusion and a list of references.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2091

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498072

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

Lab File ID: 498072D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.3

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

CAS NO. COMPOUND Q

74-95-3-----	Dibromomethane	0.65	U
78-87-5-----	1,2-Dichloropropane	0.65	U
80-62-6-----	Methyl Methacrylate	0.65	U
75-27-4-----	Bromodichloromethane	0.65	U
107-14-2-----	Chloroacetonitrile	32	U
10061-01-5-----	cis-1,3-Dichloropropene	0.65	U
513-88-2-----	1,1-Dichloropropanone	13	U
108-10-1-----	4-Methyl-2-Pentanone	3.2	U
79-46-9-----	2-Nitropropane	13	U
108-88-3-----	Toluene	0.65	U
10061-02-6-----	trans-1,3-Dichloropropene	0.65	U
97-63-2-----	Ethyl Methacrylate	0.65	U
79-00-5-----	1,1,2-Trichloroethane	0.65	U
127-18-4-----	Tetrachloroethene	0.65	U
142-28-9-----	1,3-Dichloropropane	0.65	U
591-78-6-----	2-Hexanone	3.2	U
124-48-1-----	Dibromochloromethane	0.65	U
106-93-4-----	1,2-Dibromoethane	0.65	U
108-90-7-----	Chlorobenzene	0.65	U
630-20-6-----	1,1,1,2-Tetrachloroethane	0.65	U
100-41-4-----	Ethylbenzene	0.65	U
1330-20-7-----	m- & p-Xylene	0.65	U
95-47-6-----	o-Xylene	0.65	U
100-42-5-----	Styrene	0.65	U
75-25-2-----	Bromoform	0.65	U
1330-20-7-----	Xylene (total)	0.65	U
98-82-8-----	Isopropylbenzene	0.65	U
108-86-1-----	Bromobenzene	0.65	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.65	U
96-18-4-----	1,2,3-Trichloropropane	0.65	U
110-57-6-----	trans-1,4-Dichloro-2-butene	0.65	U
95-49-8-----	2-Chlorotoluene	0.65	U
106-43-4-----	4-Chlorotoluene	0.65	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2091

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498072

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

Lab File ID: 498072D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.3

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	0.65	U
108-67-8-----	1,3,5-Trimethylbenzene	0.65	U
76-01-7-----	Pentachloroethane	0.65	U
98-06-6-----	tert-Butylbenzene	0.65	U
95-63-6-----	1,2,4-Trimethylbenzene	0.65	U
135-98-8-----	sec-Butylbenzene	0.65	U
541-73-1-----	1,3-Dichlorobenzene	0.65	U
99-87-6-----	p-Isopropyltoluene	0.65	U
106-46-7-----	1,4-Dichlorobenzene	0.65	U
95-50-1-----	1,2-Dichlorobenzene	0.65	U
104-51-8-----	n-Butylbenzene	0.65	U
67-72-1-----	Hexachloroethane	0.65	U
96-12-8-----	1,2-Dibromo-3-Chloropropane	0.65	U
98-95-3-----	Nitrobenzene	32	U
120-82-1-----	1,2,4-Trichlorobenzene	0.65	U
87-68-3-----	Hexachlorobutadiene	0.65	U
91-20-3-----	Naphthalene	0.65	U
87-61-6-----	1,2,3-Trichlorobenzene	0.65	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2092

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498073

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

Lab File ID: 498073

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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

CAS NO.

COMPOUND

Q

75-71-8-----	Dichlorodifluoromethane	0.50	U
74-87-3-----	Chloromethane	0.50	U
75-01-4-----	Vinyl Chloride	0.50	U
74-83-9-----	Bromomethane	0.50	U
75-00-3-----	Chloroethane	0.50	U
75-69-4-----	Trichlorofluoromethane	0.50	U
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	0.55	
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	20	
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	0.22	J
107-06-2-----	1,2-Dichloroethane	0.50	U
79-01-6-----	Trichloroethene	3.5	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2092

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498073

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

Lab File ID: 498073

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	Chloroacetonitrile	25	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
513-88-2	1,1-Dichloropropanone	10	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
79-46-9	2-Nitropropane	10	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	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
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

Handwritten notes at the top of the page, including a header and several lines of text.

Column 1	Column 2	Column 3
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Handwritten notes at the bottom of the page, including a footer and several lines of text.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2092

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498073

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

Lab File ID: 498073

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial statements and for providing a clear audit trail. The records should be kept up-to-date and should be easily accessible to all relevant parties.

2. The second part of the document outlines the procedures for handling discrepancies. It is important to identify any errors as soon as possible and to investigate the cause of the discrepancy. Once the cause has been identified, the necessary steps should be taken to correct the error and to prevent it from recurring.

3. The third part of the document discusses the role of the internal control system. This system is designed to prevent and detect errors and fraud. It should be regularly reviewed and updated to ensure that it remains effective. The internal control system should be supported by a strong culture of ethics and integrity.

4. The fourth part of the document discusses the importance of communication. All relevant parties should be kept informed of any changes to the financial reporting process. This includes the management, the board of directors, and the external auditors. Clear communication is essential for ensuring that everyone is working towards the same goals and for preventing misunderstandings.

5. The fifth part of the document discusses the importance of transparency. All transactions should be recorded accurately and should be disclosed in a timely and clear manner. This is essential for building trust and for ensuring that the financial statements are reliable. Transparency is also essential for identifying and addressing any areas of concern.

6. The sixth part of the document discusses the importance of accountability. All relevant parties should be held accountable for their actions. This includes the management, the board of directors, and the external auditors. Accountability is essential for ensuring that everyone is working towards the same goals and for preventing any areas of concern from arising.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2093

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498074

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

Lab File ID: 498074D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 6.1

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	3.0	U
74-87-3	Chloromethane	3.0	U
75-01-4	Vinyl Chloride	3.0	U
74-83-9	Bromomethane	3.0	U
75-00-3	Chloroethane	3.0	U
75-69-4	Trichlorofluoromethane	3.0	U
60-29-7	Diethyl Ether	3.0	U
75-35-4	1,1-Dichloroethene	3.0	U
67-64-1	Acetone	30	U
74-88-4	Methyl Iodide	3.0	U
75-15-0	Carbon Disulfide	3.0	U
107-05-1	Allyl Chloride	3.0	U
75-09-2	Methylene Chloride	3.0	U
107-13-1	Acrylonitrile	3.0	U
156-60-5	trans-1,2-Dichloroethene	3.0	U
1634-04-4	Methyl-t-Butyl Ether	3.0	U
75-34-3	1,1-Dichloroethane	3.0	U
594-20-7	2,2-Dichloropropane	3.0	U
156-59-2	cis-1,2-Dichloroethene	95	
78-93-3	2-Butanone	30	U
107-12-0	Propionitrile	150	U
96-33-3	Methyl Acrylate	3.0	U
74-97-5	Bromochloromethane	3.0	U
126-98-7	Methacrylonitrile	3.0	U
109-99-9	Tetrahydrofuran	15	U
67-66-3	Chloroform	3.0	U
71-55-6	1,1,1-Trichloroethane	3.0	U
109-69-3	1-Chlorobutane	3.0	U
56-23-5	Carbon Tetrachloride	3.0	U
563-58-6	1,1-Dichloropropene	3.0	U
71-43-2	Benzene	3.0	U
107-06-2	1,2-Dichloroethane	3.0	U
79-01-6	Trichloroethene	3.7	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2093

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498074

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

Lab File ID: 498074D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 6.1

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	3.0	U
78-87-5-----	1,2-Dichloropropane	3.0	U
80-62-6-----	Methyl Methacrylate	3.0	U
75-27-4-----	Bromodichloromethane	3.0	U
107-14-2-----	Chloroacetonitrile	150	U
10061-01-5-----	cis-1,3-Dichloropropene	3.0	U
513-88-2-----	1,1-Dichloropropanone	61	U
108-10-1-----	4-Methyl-2-Pentanone	15	U
79-46-9-----	2-Nitropropane	61	U
108-88-3-----	Toluene	3.0	U
10061-02-6-----	trans-1,3-Dichloropropene	3.0	U
97-63-2-----	Ethyl Methacrylate	3.0	U
79-00-5-----	1,1,2-Trichloroethane	3.0	U
127-18-4-----	Tetrachloroethene	3.0	U
142-28-9-----	1,3-Dichloropropane	3.0	U
591-78-6-----	2-Hexanone	15	U
124-48-1-----	Dibromochloromethane	3.0	U
106-93-4-----	1,2-Dibromoethane	3.0	U
108-90-7-----	Chlorobenzene	3.0	U
630-20-6-----	1,1,1,2-Tetrachloroethane	3.0	U
100-41-4-----	Ethylbenzene	3.0	U
1330-20-7-----	m- & p-Xylene	3.0	U
95-47-6-----	o-Xylene	3.0	U
100-42-5-----	Styrene	3.0	U
75-25-2-----	Bromoform	3.0	U
1330-20-7-----	Xylene (total)	3.0	U
98-82-8-----	Isopropylbenzene	3.0	U
108-86-1-----	Bromobenzene	3.0	U
79-34-5-----	1,1,2,2-Tetrachloroethane	3.0	U
96-18-4-----	1,2,3-Trichloropropane	3.0	U
110-57-6-----	trans-1,4-Dichloro-2-butene	3.0	U
95-49-8-----	2-Chlorotoluene	3.0	U
106-43-4-----	4-Chlorotoluene	3.0	U

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This includes recording the date, amount, and purpose of each transaction. It also emphasizes the need to reconcile the records regularly to ensure they are up-to-date and accurate.

2. The second part of the document focuses on the importance of budgeting. It explains how a budget can help you track your spending and identify areas where you can save money. It also provides tips on how to create a realistic budget that fits your needs and goals.

3. The third part of the document discusses the importance of saving for the future. It explains how saving can help you reach your financial goals, such as buying a house or retiring. It also provides tips on how to choose the right investment options and how to make the most of your savings.

Date	Description	Amount	Balance
1/1/2024	Opening Balance		1000.00
1/5/2024	Salary Deposit	2500.00	3500.00
1/10/2024	Rent Payment	-1200.00	2300.00
1/15/2024	Utilities	-150.00	2150.00
1/20/2024	Grocery	-80.00	2070.00
1/25/2024	Gas	-40.00	2030.00
1/30/2024	Savings	100.00	2130.00
2/5/2024	Salary Deposit	2500.00	4630.00
2/10/2024	Rent Payment	-1200.00	3430.00
2/15/2024	Utilities	-150.00	3280.00
2/20/2024	Grocery	-80.00	3200.00
2/25/2024	Gas	-40.00	3160.00
2/30/2024	Savings	100.00	3260.00

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2093

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498074

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

Lab File ID: 498074D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 6.1

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	3.0	U
108-67-8	1,3,5-Trimethylbenzene	3.0	U
76-01-7	Pentachloroethane	3.0	U
98-06-6	tert-Butylbenzene	3.0	U
95-63-6	1,2,4-Trimethylbenzene	3.0	U
135-98-8	sec-Butylbenzene	3.0	U
541-73-1	1,3-Dichlorobenzene	3.0	U
99-87-6	p-Isopropyltoluene	3.0	U
106-46-7	1,4-Dichlorobenzene	3.0	U
95-50-1	1,2-Dichlorobenzene	3.0	U
104-51-8	n-Butylbenzene	3.0	U
67-72-1	Hexachloroethane	3.0	U
96-12-8	1,2-Dibromo-3-Chloropropane	3.0	U
98-95-3	Nitrobenzene	150	U
120-82-1	1,2,4-Trichlorobenzene	3.0	U
87-68-3	Hexachlorobutadiene	3.0	U
91-20-3	Naphthalene	3.0	U
87-61-6	1,2,3-Trichlorobenzene	3.0	U



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2094

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498075

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

Lab File ID: 498075

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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
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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	19	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	0.43	J
107-06-2-----	1,2-Dichloroethane	0.50	U
79-01-6-----	Trichloroethene	0.40	J

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2094

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498075

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

Lab File ID: 498075

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	Chloroacetonitrile	25	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
513-88-2	1,1-Dichloropropanone	10	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
79-46-9	2-Nitropropane	10	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	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
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

Page No. 11
Date: / /
Subject: English
Topic: The Story of an Hour

Q.1. Write a short note on the following:
1. Mrs. Mallard's feelings
2. The significance of the story

Q. No.	Answer
1.	Mrs. Mallard's feelings are of joy and freedom. She feels a sense of liberation when she learns that her husband is dead.
2.	The significance of the story is that it shows the power of hope and the fragility of life. It is a story of a woman who finds a moment of happiness and then loses it.
3.	The story is a powerful statement on the nature of happiness and the human condition. It shows that happiness is often fleeting and that life is full of uncertainty.
4.	The story is a classic example of a short story that has a clear beginning, middle, and end. It is a story that is easy to read and understand.
5.	The story is a powerful statement on the nature of happiness and the human condition. It shows that happiness is often fleeting and that life is full of uncertainty.
6.	The story is a classic example of a short story that has a clear beginning, middle, and end. It is a story that is easy to read and understand.
7.	The story is a powerful statement on the nature of happiness and the human condition. It shows that happiness is often fleeting and that life is full of uncertainty.
8.	The story is a classic example of a short story that has a clear beginning, middle, and end. It is a story that is easy to read and understand.
9.	The story is a powerful statement on the nature of happiness and the human condition. It shows that happiness is often fleeting and that life is full of uncertainty.
10.	The story is a classic example of a short story that has a clear beginning, middle, and end. It is a story that is easy to read and understand.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2094

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498075

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

Lab File ID: 498075

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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

ENGSC2 SAMPLE NO.

TR2095

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498077

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

Lab File ID: 498077D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 27.5

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	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
60-29-7	Diethyl Ether	14	U
75-35-4	1,1-Dichloroethene	14	U
67-64-1	Acetone	140	U
74-88-4	Methyl Iodide	14	U
75-15-0	Carbon Disulfide	14	U
107-05-1	Allyl Chloride	14	U
75-09-2	Methylene Chloride	14	U
107-13-1	Acrylonitrile	14	U
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-t-Butyl Ether	14	U
75-34-3	1,1-Dichloroethane	14	U
594-20-7	2,2-Dichloropropane	14	U
156-59-2	cis-1,2-Dichloroethene	32	
78-93-3	2-Butanone	140	U
107-12-0	Propionitrile	690	U
96-33-3	Methyl Acrylate	14	U
74-97-5	Bromochloromethane	14	U
126-98-7	Methacrylonitrile	14	U
109-99-9	Tetrahydrofuran	69	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
109-69-3	1-Chlorobutane	14	U
56-23-5	Carbon Tetrachloride	14	U
563-58-6	1,1-Dichloropropene	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U
79-01-6	Trichloroethene	540	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2095

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498077

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

Lab File ID: 498077D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 27.5

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	14	U
78-87-5-----	1,2-Dichloropropane	14	U
80-62-6-----	Methyl Methacrylate	14	U
75-27-4-----	Bromodichloromethane	14	U
107-14-2-----	Chloroacetonitrile	690	U
10061-01-5-----	cis-1,3-Dichloropropene	14	U
513-88-2-----	1,1-Dichloropropanone	280	U
108-10-1-----	4-Methyl-2-Pentanone	69	U
79-46-9-----	2-Nitropropane	280	U
108-88-3-----	Toluene	14	U
10061-02-6-----	trans-1,3-Dichloropropene	14	U
97-63-2-----	Ethyl Methacrylate	14	U
79-00-5-----	1,1,2-Trichloroethane	14	U
127-18-4-----	Tetrachloroethene	14	U
142-28-9-----	1,3-Dichloropropane	14	U
591-78-6-----	2-Hexanone	69	U
124-48-1-----	Dibromochloromethane	14	U
106-93-4-----	1,2-Dibromoethane	14	U
108-90-7-----	Chlorobenzene	14	U
630-20-6-----	1,1,1,2-Tetrachloroethane	14	U
100-41-4-----	Ethylbenzene	14	U
1330-20-7-----	m- & p-Xylene	14	U
95-47-6-----	o-Xylene	14	U
100-42-5-----	Styrene	14	U
75-25-2-----	Bromoform	14	U
1330-20-7-----	Xylene (total)	14	U
98-82-8-----	Isopropylbenzene	14	U
108-86-1-----	Bromobenzene	14	U
79-34-5-----	1,1,2,2-Tetrachloroethane	14	U
96-18-4-----	1,2,3-Trichloropropane	14	U
110-57-6-----	trans-1,4-Dichloro-2-butene	14	U
95-49-8-----	2-Chlorotoluene	14	U
106-43-4-----	4-Chlorotoluene	14	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2095

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498077

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

Lab File ID: 498077D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 27.5

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	14	U
108-67-8	1,3,5-Trimethylbenzene	14	U
76-01-7	Pentachloroethane	14	U
98-06-6	tert-Butylbenzene	14	U
95-63-6	1,2,4-Trimethylbenzene	14	U
135-98-8	sec-Butylbenzene	14	U
541-73-1	1,3-Dichlorobenzene	14	U
99-87-6	p-Isopropyltoluene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
104-51-8	n-Butylbenzene	14	U
67-72-1	Hexachloroethane	14	U
96-12-8	1,2-Dibromo-3-Chloropropane	14	U
98-95-3	Nitrobenzene	690	U
120-82-1	1,2,4-Trichlorobenzene	14	U
87-68-3	Hexachlorobutadiene	14	U
91-20-3	Naphthalene	14	U
87-61-6	1,2,3-Trichlorobenzene	14	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2095MS

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498077MS

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

Lab File ID: 498077M

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 27.5

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	54	
74-87-3	Chloromethane	49	
75-01-4	Vinyl Chloride	53	
74-83-9	Bromomethane	54	
75-00-3	Chloroethane	56	
75-69-4	Trichlorofluoromethane	51	
60-29-7	Diethyl Ether	63	
75-35-4	1,1-Dichloroethene	53	
67-64-1	Acetone	140	
74-88-4	Methyl Iodide	63	
75-15-0	Carbon Disulfide	75	
107-05-1	Allyl Chloride	55	
75-09-2	Methylene Chloride	54	
107-13-1	Acrylonitrile	66	
156-60-5	trans-1,2-Dichloroethene	53	
1634-04-4	Methyl-t-Butyl Ether	58	
75-34-3	1,1-Dichloroethane	50	
594-20-7	2,2-Dichloropropane	53	
156-59-2	cis-1,2-Dichloroethene	84	
78-93-3	2-Butanone	200	
107-12-0	Propionitrile	3000	
96-33-3	Methyl Acrylate	58	
74-97-5	Bromochloromethane	58	
126-98-7	Methacrylonitrile	62	
109-99-9	Tetrahydrofuran	330	
67-66-3	Chloroform	49	
71-55-6	1,1,1-Trichloroethane	54	
109-69-3	1-Chlorobutane	57	
56-23-5	Carbon Tetrachloride	51	
563-58-6	1,1-Dichloropropene	48	
71-43-2	Benzene	51	
107-06-2	1,2-Dichloroethane	58	
79-01-6	Trichloroethene	650	

Handwritten notes at the top of the page, including a title and several lines of text.

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Year	Month	Day	Event
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1950	Jan	4	...
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1950	Jan	7	...
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2095MS

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498077MS

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

Lab File ID: 498077M

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 27.5

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	58	
78-87-5	1,2-Dichloropropane	50	
80-62-6	Methyl Methacrylate	58	
75-27-4	Bromodichloromethane	54	
107-14-2	Chloroacetonitrile	2900	
10061-01-5	cis-1,3-Dichloropropene	51	
513-88-2	1,1-Dichloropropanone	1500	
108-10-1	4-Methyl-2-Pentanone	280	
79-46-9	2-Nitropropane	1200	
108-88-3	Toluene	59	
10061-02-6	trans-1,3-Dichloropropene	51	
97-63-2	Ethyl Methacrylate	59	
79-00-5	1,1,2-Trichloroethane	58	
127-18-4	Tetrachloroethene	54	
142-28-9	1,3-Dichloropropane	60	
591-78-6	2-Hexanone	200	
124-48-1	Dibromochloromethane	47	
106-93-4	1,2-Dibromoethane	55	
108-90-7	Chlorobenzene	56	
630-20-6	1,1,1,2-Tetrachloroethane	54	
100-41-4	Ethylbenzene	54	
1330-20-7	m- & p-Xylene	110	
95-47-6	o-Xylene	56	
100-42-5	Styrene	54	
75-25-2	Bromoform	45	
1330-20-7	Xylene (total)	170	
98-82-8	Isopropylbenzene	56	
108-86-1	Bromobenzene	55	
79-34-5	1,1,2,2-Tetrachloroethane	58	
96-18-4	1,2,3-Trichloropropane	60	
110-57-6	trans-1,4-Dichloro-2-butene	50	
95-49-8	2-Chlorotoluene	57	
106-43-4	4-Chlorotoluene	56	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2095MS

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498077MS

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

Lab File ID: 498077M

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 27.5

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	57	
108-67-8	1,3,5-Trimethylbenzene	56	
76-01-7	Pentachloroethane	81	
98-06-6	tert-Butylbenzene	60	
95-63-6	1,2,4-Trimethylbenzene	55	
135-98-8	sec-Butylbenzene	56	
541-73-1	1,3-Dichlorobenzene	56	
99-87-6	p-Isopropyltoluene	58	
106-46-7	1,4-Dichlorobenzene	58	
95-50-1	1,2-Dichlorobenzene	58	
104-51-8	n-Butylbenzene	58	
67-72-1	Hexachloroethane	56	
96-12-8	1,2-Dibromo-3-Chloropropane	58	
98-95-3	Nitrobenzene	2100	
120-82-1	1,2,4-Trichlorobenzene	60	
87-68-3	Hexachlorobutadiene	59	
91-20-3	Naphthalene	62	
87-61-6	1,2,3-Trichlorobenzene	62	

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. This is essential for ensuring the integrity of the financial statements and for providing a clear audit trail.

2. The second part of the document outlines the various methods used to collect and analyze data. These methods include direct observation, interviews, and the use of specialized software tools.

3. The third part of the document describes the results of the data collection and analysis. It shows that there are significant differences in the way that different departments handle their data, which can lead to inconsistencies and errors.

4. The fourth part of the document discusses the implications of these findings and provides recommendations for how to improve the data collection and analysis process.

Department	Method	Frequency	Accuracy
Finance	Direct Observation	Weekly	High
Finance	Interviews	Monthly	Medium
Finance	Software Tools	Daily	High
Marketing	Direct Observation	Weekly	Medium
Marketing	Interviews	Monthly	Low
Marketing	Software Tools	Daily	Medium
Operations	Direct Observation	Weekly	Low
Operations	Interviews	Monthly	Medium
Operations	Software Tools	Daily	Low

The data collected from the various departments shows that there are significant differences in the way that different departments handle their data. For example, the Finance department uses a combination of direct observation, interviews, and software tools, while the Marketing department uses direct observation and interviews.

These differences can lead to inconsistencies and errors in the data, which can affect the accuracy of the financial statements. Therefore, it is important to standardize the data collection and analysis process across all departments.

The following recommendations are provided to improve the data collection and analysis process:

- 1. Develop a standard data collection and analysis process that can be used by all departments.
- 2. Provide training to all employees on the standard process.
- 3. Implement software tools that can be used by all departments.
- 4. Conduct regular audits to ensure that the data is accurate and consistent.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2095MSD

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498077MD

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

Lab File ID: 498077S

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

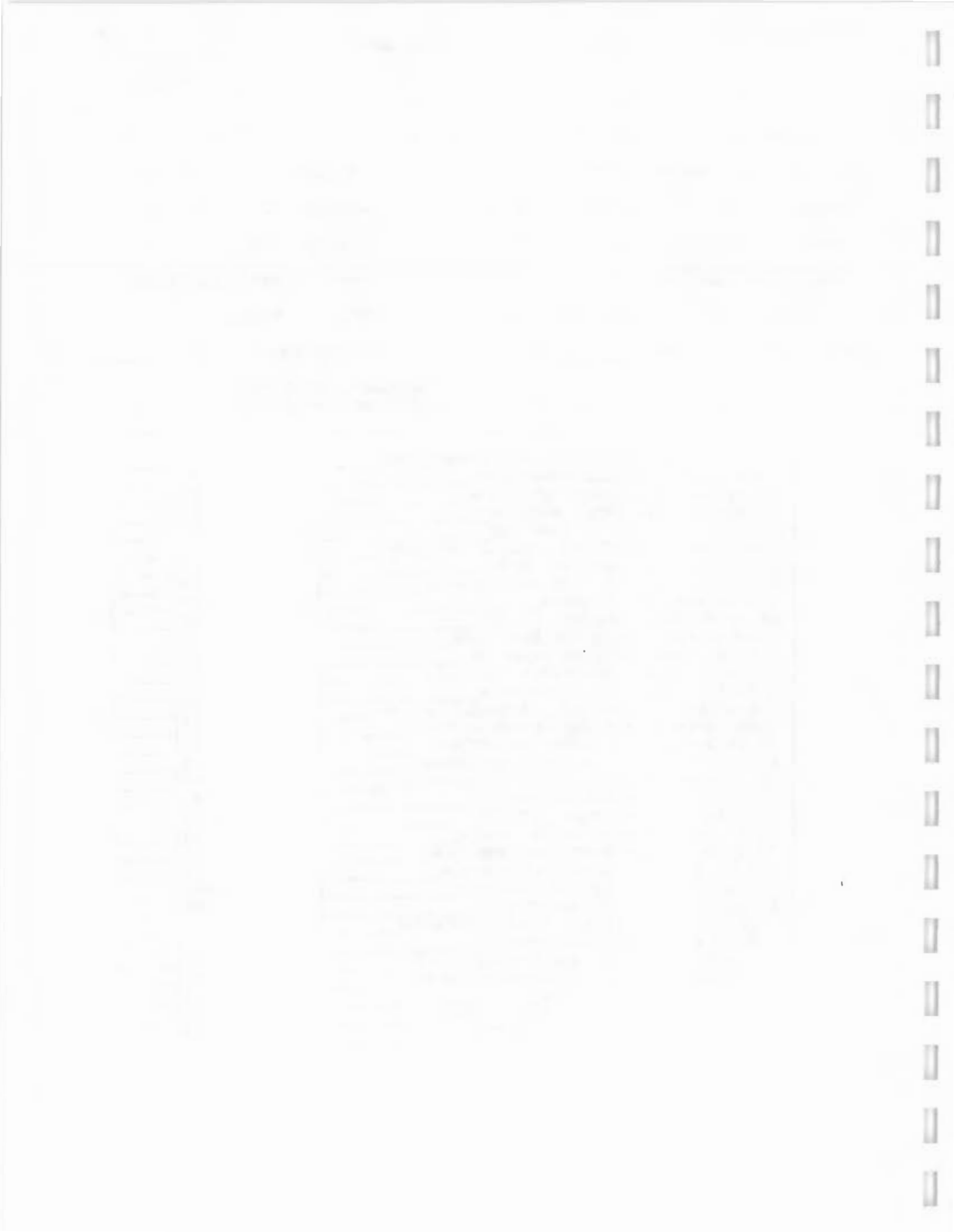
GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 27.5

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	47	
74-87-3	Chloromethane	46	
75-01-4	Vinyl Chloride	54	
74-83-9	Bromomethane	53	
75-00-3	Chloroethane	54	
75-69-4	Trichlorofluoromethane	51	
60-29-7	Diethyl Ether	60	
75-35-4	1,1-Dichloroethene	50	
67-64-1	Acetone	150	
74-88-4	Methyl Iodide	62	
75-15-0	Carbon Disulfide	80	
107-05-1	Allyl Chloride	52	
75-09-2	Methylene Chloride	55	
107-13-1	Acrylonitrile	65	
156-60-5	trans-1,2-Dichloroethene	56	
1634-04-4	Methyl-t-Butyl Ether	57	
75-34-3	1,1-Dichloroethane	46	
594-20-7	2,2-Dichloropropane	50	
156-59-2	cis-1,2-Dichloroethene	87	
78-93-3	2-Butanone	180	
107-12-0	Propionitrile	2800	
96-33-3	Methyl Acrylate	54	
74-97-5	Bromochloromethane	56	
126-98-7	Methacrylonitrile	56	
109-99-9	Tetrahydrofuran	290	
67-66-3	Chloroform	48	
71-55-6	1,1,1-Trichloroethane	50	
109-69-3	1-Chlorobutane	48	
56-23-5	Carbon Tetrachloride	48	
563-58-6	1,1-Dichloropropene	51	
71-43-2	Benzene	49	
107-06-2	1,2-Dichloroethane	55	
79-01-6	Trichloroethene	650	



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2095MSD

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498077MD

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

Lab File ID: 498077S

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 27.5

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	56	
78-87-5-----	1,2-Dichloropropane	50	
80-62-6-----	Methyl Methacrylate	56	
75-27-4-----	Bromodichloromethane	52	
107-14-2-----	Chloroacetonitrile	2700	
10061-01-5-----	cis-1,3-Dichloropropene	51	
513-88-2-----	1,1-Dichloropropanone	1400	
108-10-1-----	4-Methyl-2-Pentanone	270	
79-46-9-----	2-Nitropropane	1100	
108-88-3-----	Toluene	56	
10061-02-6-----	trans-1,3-Dichloropropene	51	
97-63-2-----	Ethyl Methacrylate	57	
79-00-5-----	1,1,2-Trichloroethane	53	
127-18-4-----	Tetrachloroethene	51	
142-28-9-----	1,3-Dichloropropane	58	
591-78-6-----	2-Hexanone	180	
124-48-1-----	Dibromochloromethane	48	
106-93-4-----	1,2-Dibromoethane	56	
108-90-7-----	Chlorobenzene	55	
630-20-6-----	1,1,1,2-Tetrachloroethane	52	
100-41-4-----	Ethylbenzene	54	
1330-20-7-----	m- & p-Xylene	110	
95-47-6-----	o-Xylene	56	
100-42-5-----	Styrene	55	
75-25-2-----	Bromoform	48	
1330-20-7-----	Xylene (total)	170	
98-82-8-----	Isopropylbenzene	56	
108-86-1-----	Bromobenzene	56	
79-34-5-----	1,1,2,2-Tetrachloroethane	59	
96-18-4-----	1,2,3-Trichloropropane	61	
110-57-6-----	trans-1,4-Dichloro-2-butene	53	
95-49-8-----	2-Chlorotoluene	57	
106-43-4-----	4-Chlorotoluene	55	



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2095MSD

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498077MD

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

Lab File ID: 498077S

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 27.5

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	58	
108-67-8	1,3,5-Trimethylbenzene	56	
76-01-7	Pentachloroethane	78	
98-06-6	tert-Butylbenzene	58	
95-63-6	1,2,4-Trimethylbenzene	57	
135-98-8	sec-Butylbenzene	57	
541-73-1	1,3-Dichlorobenzene	58	
99-87-6	p-Isopropyltoluene	57	
106-46-7	1,4-Dichlorobenzene	59	
95-50-1	1,2-Dichlorobenzene	59	
104-51-8	n-Butylbenzene	58	
67-72-1	Hexachloroethane	55	
96-12-8	1,2-Dibromo-3-Chloropropane	54	
98-95-3	Nitrobenzene	2400	
120-82-1	1,2,4-Trichlorobenzene	61	
87-68-3	Hexachlorobutadiene	60	
91-20-3	Naphthalene	62	
87-61-6	1,2,3-Trichlorobenzene	63	

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2096

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498078

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

Lab File ID: 498078D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 8.8

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

75-71-8-----Dichlorodifluoromethane	4.4	U
74-87-3-----Chloromethane	4.4	U
75-01-4-----Vinyl Chloride	4.4	U
74-83-9-----Bromomethane	4.4	U
75-00-3-----Chloroethane	4.4	U
75-69-4-----Trichlorofluoromethane	4.4	U
60-29-7-----Diethyl Ether	4.4	U
75-35-4-----1,1-Dichloroethene	4.4	U
67-64-1-----Acetone	44	U
74-88-4-----Methyl Iodide	4.4	U
75-15-0-----Carbon Disulfide	4.4	U
107-05-1-----Allyl Chloride	4.4	U
75-09-2-----Methylene Chloride	4.4	U
107-13-1-----Acrylonitrile	4.4	U
156-60-5-----trans-1,2-Dichloroethene	4.4	U
1634-04-4-----Methyl-t-Butyl Ether	4.4	U
75-34-3-----1,1-Dichloroethane	4.4	U
594-20-7-----2,2-Dichloropropane	4.4	U
156-59-2-----cis-1,2-Dichloroethene	170	
78-93-3-----2-Butanone	44	U
107-12-0-----Propionitrile	220	U
96-33-3-----Methyl Acrylate	4.4	U
74-97-5-----Bromochloromethane	4.4	U
126-98-7-----Methacrylonitrile	4.4	U
109-99-9-----Tetrahydrofuran	22	U
67-66-3-----Chloroform	4.4	U
71-55-6-----1,1,1-Trichloroethane	4.4	U
109-69-3-----1-Chlorobutane	4.4	U
56-23-5-----Carbon Tetrachloride	4.4	U
563-58-6-----1,1-Dichloropropene	4.4	U
71-43-2-----Benzene	4.4	U
107-06-2-----1,2-Dichloroethane	4.4	U
79-01-6-----Trichloroethene	140	

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2096

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498078

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

Lab File ID: 498078D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 8.8

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

74-95-3-----	Dibromomethane	4.4	U
78-87-5-----	1,2-Dichloropropane	4.4	U
80-62-6-----	Methyl Methacrylate	4.4	U
75-27-4-----	Bromodichloromethane	4.4	U
107-14-2-----	Chloroacetonitrile	220	U
10061-01-5-----	cis-1,3-Dichloropropene	4.4	U
513-88-2-----	1,1-Dichloropropanone	88	U
108-10-1-----	4-Methyl-2-Pentanone	22	U
79-46-9-----	2-Nitropropane	88	U
108-88-3-----	Toluene	4.4	U
10061-02-6-----	trans-1,3-Dichloropropene	4.4	U
97-63-2-----	Ethyl Methacrylate	4.4	U
79-00-5-----	1,1,2-Trichloroethane	4.4	U
127-18-4-----	Tetrachloroethene	4.4	U
142-28-9-----	1,3-Dichloropropane	4.4	U
591-78-6-----	2-Hexanone	22	U
124-48-1-----	Dibromochloromethane	4.4	U
106-93-4-----	1,2-Dibromoethane	4.4	U
108-90-7-----	Chlorobenzene	4.4	U
630-20-6-----	1,1,1,2-Tetrachloroethane	4.4	U
100-41-4-----	Ethylbenzene	4.4	U
1330-20-7-----	m- & p-Xylene	4.4	U
95-47-6-----	o-Xylene	4.4	U
100-42-5-----	Styrene	4.4	U
75-25-2-----	Bromoform	4.4	U
1330-20-7-----	Xylene (total)	4.4	U
98-82-8-----	Isopropylbenzene	4.4	U
108-86-1-----	Bromobenzene	4.4	U
79-34-5-----	1,1,2,2-Tetrachloroethane	4.4	U
96-18-4-----	1,2,3-Trichloropropane	4.4	U
110-57-6-----	trans-1,4-Dichloro-2-butene	4.4	U
95-49-8-----	2-Chlorotoluene	4.4	U
106-43-4-----	4-Chlorotoluene	4.4	U

1. Name of the person
2. Address
3. City

4. State
5. Zip

6. Telephone

No.	Name	Address	City	State	Zip	Telephone
1	John Doe	123 Main St	New York	NY	10001	212-555-1234
2	Jane Smith	456 Elm St	Los Angeles	CA	90001	213-555-5678
3	Bob Johnson	789 Oak St	Chicago	IL	60601	312-555-9012
4	Alice Brown	101 Pine St	San Francisco	CA	94101	415-555-3456
5	Charlie White	202 Cedar St	Houston	TX	77001	713-555-7890
6	Diana Green	303 Birch St	Phoenix	AZ	85001	602-555-2345
7	Frank Black	404 Maple St	Philadelphia	PA	19101	215-555-6789
8	Grace King	505 Walnut St	San Diego	CA	92101	619-555-0123
9	Henry Lee	606 Spruce St	Portland	OR	97201	503-555-4567
10	Ivy Hill	707 Ash St	Seattle	WA	98101	206-555-8901
11	Jack Adams	808 Hickory St	Denver	CO	80201	303-555-2345
12	Karen Baker	909 Cypress St	San Jose	CA	95101	408-555-6789
13	Liam Clark	1010 Dogwood St	San Antonio	TX	78201	214-555-0123
14	Mia Evans	1111 Magnolia St	San Jose	CA	95101	408-555-4567
15	Noah Foster	1212 Sycamore St	San Jose	CA	95101	408-555-8901
16	Olivia Garcia	1313 Tulip St	San Jose	CA	95101	408-555-2345
17	Peter Hall	1414 Violet St	San Jose	CA	95101	408-555-6789
18	Quinn Ives	1515 Willow St	San Jose	CA	95101	408-555-0123
19	Rachel King	1616 Yucca St	San Jose	CA	95101	408-555-4567
20	Samuel Lee	1717 Zebra St	San Jose	CA	95101	408-555-8901

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2096

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498078

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

Lab File ID: 498078D

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 8.8

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
103-65-1	n-Propylbenzene	4.4	U
108-67-8	1,3,5-Trimethylbenzene	4.4	U
76-01-7	Pentachloroethane	4.4	U
98-06-6	tert-Butylbenzene	4.4	U
95-63-6	1,2,4-Trimethylbenzene	4.4	U
135-98-8	sec-Butylbenzene	4.4	U
541-73-1	1,3-Dichlorobenzene	4.4	U
99-87-6	p-Isopropyltoluene	4.4	U
106-46-7	1,4-Dichlorobenzene	4.4	U
95-50-1	1,2-Dichlorobenzene	4.4	U
104-51-8	n-Butylbenzene	4.4	U
67-72-1	Hexachloroethane	4.4	U
96-12-8	1,2-Dibromo-3-Chloropropane	4.4	U
98-95-3	Nitrobenzene	220	U
120-82-1	1,2,4-Trichlorobenzene	4.4	U
87-68-3	Hexachlorobutadiene	4.4	U
91-20-3	Naphthalene	4.4	U
87-61-6	1,2,3-Trichlorobenzene	4.4	U



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2097

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498079

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

Lab File ID: 498079

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	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	2.0	J
74-88-4	Methyl Iodide	0.50	U
75-15-0	Carbon Disulfide	0.50	U
107-05-1	Allyl Chloride	0.63	
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	0.80	
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	0.65	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2097

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498079

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

Lab File ID: 498079

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

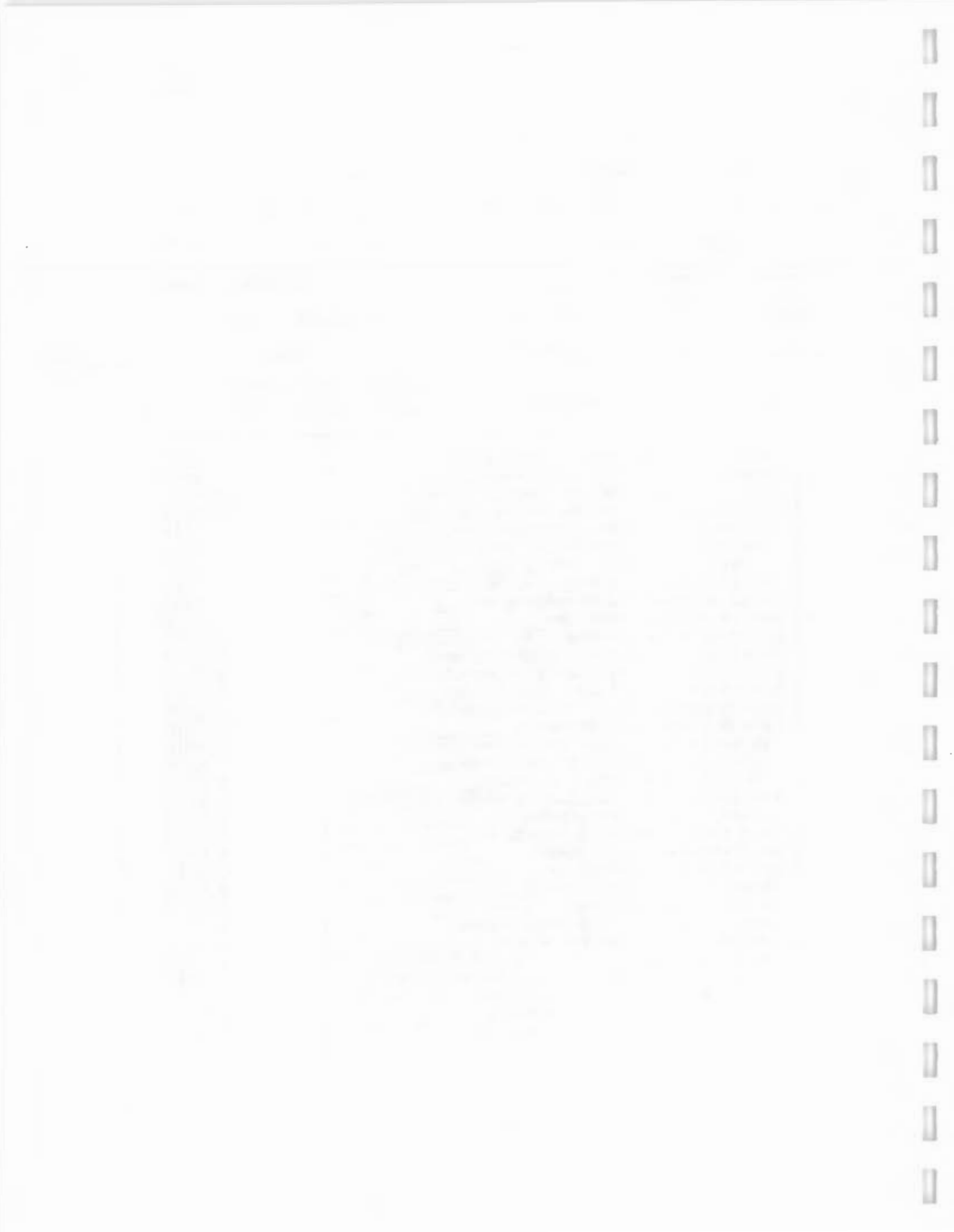
GC Column: CAP ID: 0.53 (mm)

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	Chloroacetonitrile	25	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
513-88-2	1,1-Dichloropropanone	10	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
79-46-9	2-Nitropropane	10	U
108-88-3	Toluene	0.28	J
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	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
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



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2097

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498079

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

Lab File ID: 498079

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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

ENGSC2 SAMPLE NO.

TR2098

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498080

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

Lab File ID: 498080

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	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	2.2	J
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	0.29	J

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2098

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498080

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

Lab File ID: 498080

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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-----	Chloroacetonitrile	25	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	U
513-88-2-----	1,1-Dichloropropanone	10	U
108-10-1-----	4-Methyl-2-Pentanone	2.5	U
79-46-9-----	2-Nitropropane	10	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-----	Bromoform	0.50	U
1330-20-7-----	Xylene (total)	0.50	U
98-82-8-----	Isopropylbenzene	0.50	U
108-86-1-----	Bromobenzene	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4-----	1,2,3-Trichloropropane	0.50	U
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

Handwritten notes at the top of the page, possibly including a title or introductory text.

Second section of handwritten notes, continuing the text from the top.

Column 1	Column 2	Column 3
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
49	50	51
52	53	54
55	56	57
58	59	60
61	62	63
64	65	66
67	68	69
70	71	72
73	74	75
76	77	78
79	80	81
82	83	84
85	86	87
88	89	90
91	92	93
94	95	96
97	98	99
100	101	102

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2098

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498080

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

Lab File ID: 498080

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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

ENGSC2 SAMPLE NO.

TR2099

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498076

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

Lab File ID: 498076

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	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	0.80	J
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	0.53	
594-20-7	2,2-Dichloropropane	0.50	U
156-59-2	cis-1,2-Dichloroethene	23	
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	0.43	J
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.67	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2099

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498076

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

Lab File ID: 498076

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	Chloroacetonitrile	25	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
513-88-2	1,1-Dichloropropanone	10	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
79-46-9	2-Nitropropane	10	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	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
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



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ENGSC2 SAMPLE NO.

TR2099

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: 498076

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

Lab File ID: 498076

Level: (low/med) LOW

Date Received: 08/17/02

% Moisture: not dec. _____

Date Analyzed: 08/26/02

GC Column: CAP ID: 0.53 (mm)

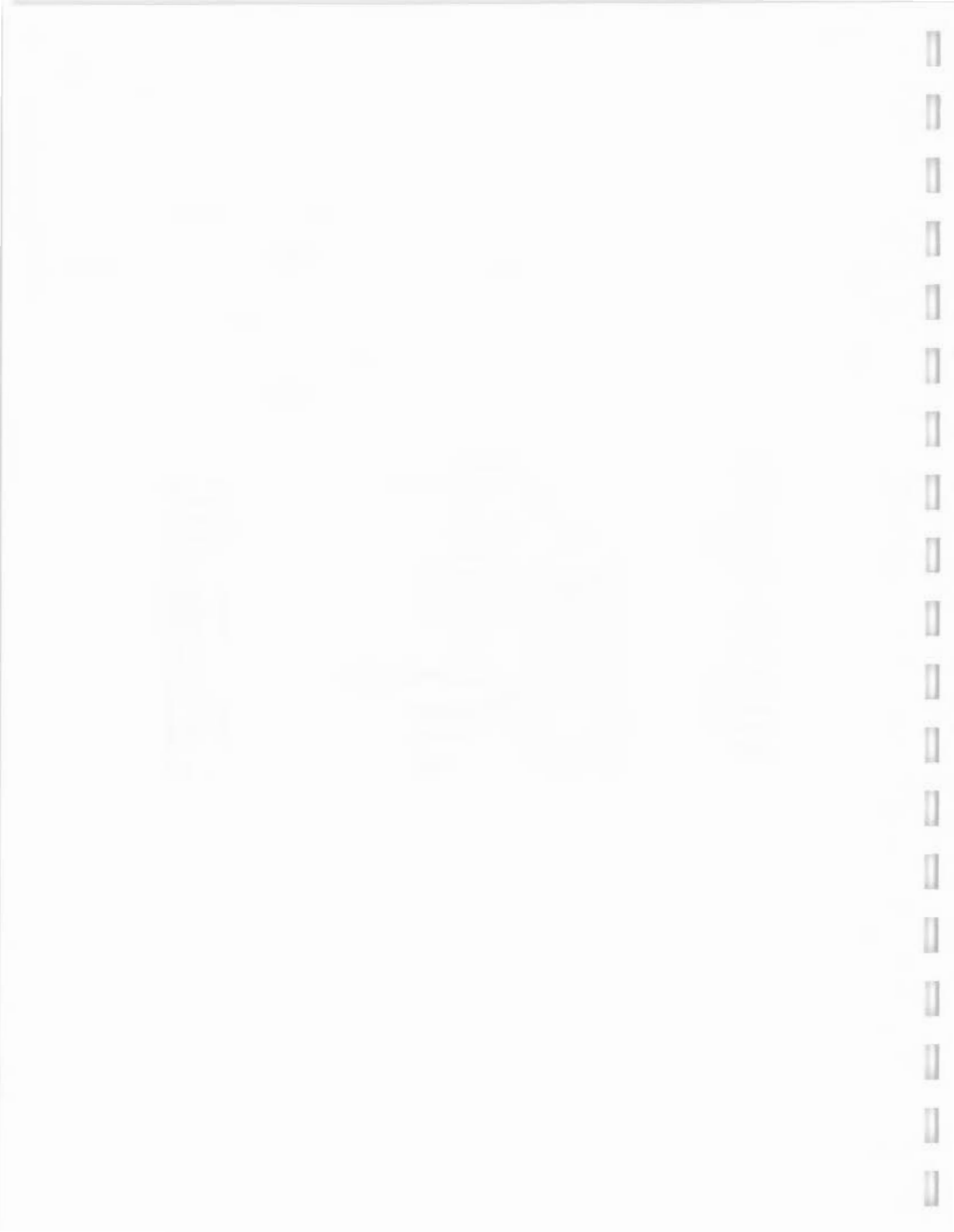
Dilution Factor: 1.0

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

CLIENT SAMPLE NO.

MYFB LCS

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: MYFB LCS

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

Lab File ID: MYF01BQ

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	0.92	
74-87-3-----	Chloromethane	0.99	
75-01-4-----	Vinyl Chloride	0.94	
74-83-9-----	Bromomethane	0.96	
75-00-3-----	Chloroethane	1.1	
75-69-4-----	Trichlorofluoromethane	0.93	
60-29-7-----	Diethyl Ether	1.2	
75-35-4-----	1,1-Dichloroethene	1.0	
67-64-1-----	Acetone	3.4	J
74-88-4-----	Methyl Iodide	1.2	
75-15-0-----	Carbon Disulfide	1.8	
107-05-1-----	Allyl Chloride	0.96	
75-09-2-----	Methylene Chloride	1.1	
107-13-1-----	Acrylonitrile	1.2	
156-60-5-----	trans-1,2-Dichloroethene	1.0	
1634-04-4-----	Methyl-t-Butyl Ether	0.95	
75-34-3-----	1,1-Dichloroethane	0.98	
594-20-7-----	2,2-Dichloropropane	0.98	
156-59-2-----	cis-1,2-Dichloroethene	0.98	
78-93-3-----	2-Butanone	3.9	J
107-12-0-----	Propionitrile	47	
96-33-3-----	Methyl Acrylate	1.1	
74-97-5-----	Bromochloromethane	1.0	
126-98-7-----	Methacrylonitrile	1.2	
109-99-9-----	Tetrahydrofuran	5.3	
67-66-3-----	Chloroform	0.90	
71-55-6-----	1,1,1-Trichloroethane	0.97	
109-69-3-----	1-Chlorobutane	0.96	
56-23-5-----	Carbon Tetrachloride	0.85	
563-58-6-----	1,1-Dichloropropene	0.99	
71-43-2-----	Benzene	0.92	
107-06-2-----	1,2-Dichloroethane	1.0	
79-01-6-----	Trichloroethene	0.95	

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for ensuring the integrity of the financial data and for facilitating audits.

2. The second part of the document outlines the various methods used to collect and analyze data. It includes a detailed description of the sampling techniques employed and the statistical tests used to evaluate the results.

3. The third part of the document presents the findings of the study. It shows that there is a significant correlation between the variables being studied, and that the results are consistent with the theoretical model proposed.

4. The final part of the document discusses the implications of the findings and suggests areas for further research. It concludes that the study has provided valuable insights into the relationship between the variables and has identified several key factors that influence the outcome.

Variable	Mean	Standard Deviation	Minimum	Maximum
Variable 1	12.5	3.2	8.0	17.0
Variable 2	15.8	4.1	10.0	21.0
Variable 3	18.2	5.0	12.0	24.0
Variable 4	20.1	5.8	14.0	26.0
Variable 5	22.3	6.5	16.0	28.0
Variable 6	24.5	7.2	18.0	30.0
Variable 7	26.7	7.9	20.0	32.0
Variable 8	28.9	8.6	22.0	34.0
Variable 9	31.1	9.3	24.0	36.0
Variable 10	33.3	10.0	26.0	38.0

The data presented in the table above shows a clear upward trend in the values of the variables. This suggests that the factors being studied are positively correlated and that the results are consistent with the theoretical model. The standard deviations are also relatively low, indicating that the data is fairly consistent and that the results are reliable.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MYFB LCS

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: MYFB LCS

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

Lab File ID: MYF01BQ

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	0.99	
78-87-5	1,2-Dichloropropane	1.0	
80-62-6	Methyl Methacrylate	1.4	
75-27-4	Bromodichloromethane	1.0	
107-14-2	Chloroacetonitrile	53	
10061-01-5	cis-1,3-Dichloropropene	1.0	
513-88-2	1,1-Dichloropropanone	23	
108-10-1	4-Methyl-2-Pentanone	4.6	
79-46-9	2-Nitropropane	20	
108-88-3	Toluene	1.1	
10061-02-6	trans-1,3-Dichloropropene	1.0	
97-63-2	Ethyl Methacrylate	0.98	
79-00-5	1,1,2-Trichloroethane	0.97	
127-18-4	Tetrachloroethene	0.98	
142-28-9	1,3-Dichloropropane	1.0	
591-78-6	2-Hexanone	3.7	
124-48-1	Dibromochloromethane	0.95	
106-93-4	1,2-Dibromoethane	0.97	
108-90-7	Chlorobenzene	1.0	
630-20-6	1,1,1,2-Tetrachloroethane	0.97	
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	0.99	
75-25-2	Bromoform	0.92	
1330-20-7	Xylene (total)	3.1	
98-82-8	Isopropylbenzene	1.0	
108-86-1	Bromobenzene	0.99	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	
96-18-4	1,2,3-Trichloropropane	1.1	
110-57-6	trans-1,4-Dichloro-2-butene	1.1	
95-49-8	2-Chlorotoluene	1.0	
106-43-4	4-Chlorotoluene	1.1	

1941
The following is a list of the names of the persons who were members of the Board of Directors of the American Red Cross during the year 1941.

1. Mr. J. Edgar Hoover
2. Mr. E. A. Tamm
3. Mr. Clegg
4. Mr. Glavin
5. Mr. Ladd
6. Mr. Nichols
7. Mr. Rosen
8. Mr. Tracy
9. Mr. Carson
10. Mr. Egan
11. Mr. Gurnea
12. Mr. Hendon
13. Mr. Pennington
14. Mr. Quinn
15. Mr. Nease
16. Mr. Gurnea
17. Mr. Hendon
18. Mr. Pennington
19. Mr. Quinn
20. Mr. Nease

Name	Address	City	State
Mr. J. Edgar Hoover	Washington, D. C.	Washington	D. C.
Mr. E. A. Tamm	Washington, D. C.	Washington	D. C.
Mr. Clegg	Washington, D. C.	Washington	D. C.
Mr. Glavin	Washington, D. C.	Washington	D. C.
Mr. Ladd	Washington, D. C.	Washington	D. C.
Mr. Nichols	Washington, D. C.	Washington	D. C.
Mr. Rosen	Washington, D. C.	Washington	D. C.
Mr. Tracy	Washington, D. C.	Washington	D. C.
Mr. Carson	Washington, D. C.	Washington	D. C.
Mr. Egan	Washington, D. C.	Washington	D. C.
Mr. Gurnea	Washington, D. C.	Washington	D. C.
Mr. Hendon	Washington, D. C.	Washington	D. C.
Mr. Pennington	Washington, D. C.	Washington	D. C.
Mr. Quinn	Washington, D. C.	Washington	D. C.
Mr. Nease	Washington, D. C.	Washington	D. C.

Continued on next page

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MYFB LCS

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: MYFB LCS

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

Lab File ID: MYF01BQ

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	1.0	
108-67-8	1,3,5-Trimethylbenzene	1.0	
76-01-7	Pentachloroethane	1.2	
98-06-6	tert-Butylbenzene	1.0	
95-63-6	1,2,4-Trimethylbenzene	1.0	
135-98-8	sec-Butylbenzene	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	
99-87-6	p-Isopropyltoluene	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	
104-51-8	n-Butylbenzene	1.1	
67-72-1	Hexachloroethane	0.96	
96-12-8	1,2-Dibromo-3-Chloropropane	1.2	
98-95-3	Nitrobenzene	52	
120-82-1	1,2,4-Trichlorobenzene	1.1	
87-68-3	Hexachlorobutadiene	1.1	
91-20-3	Naphthalene	1.1	
87-61-6	1,2,3-Trichlorobenzene	1.2	

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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKZ1

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: VBLKZ1

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

Lab File ID: MYFB01B

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	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

CLIENT SAMPLE NO.

VLBKZ1

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: VLBKZ1

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

Lab File ID: MYFB01B

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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	Chloroacetonitrile	25	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
513-88-2	1,1-Dichloropropanone	10	U
108-10-1	4-Methyl-2-Pentanone	2.5	U
79-46-9	2-Nitropropane	10	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	Bromoform	0.50	U
1330-20-7	Xylene (total)	0.50	U
98-82-8	Isopropylbenzene	0.50	U
108-86-1	Bromobenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	U
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



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKZ1

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix: (soil/water) WATER

Lab Sample ID: VBLKZ1

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

Lab File ID: MYFB01B

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 08/26/02

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

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FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

	CLIENT SAMPLE NO.	SMC1 (DCE) #	SMC2 (BFB) #	SMC3 (DCB) #	OTHER (TOL) #	TOT OUT
01	MYFB LCS	95	98	103	99	0
02	VBLKZ1	92	97	96	97	0
03	TR2091	110	104	106	107	0
04	TR2092	96	99	103	98	0
05	TR2093	99	97	102	97	0
06	TR2094	97	102	106	98	0
07	TR2099	100	99	108	100	0
08	TR2095	92	92	94	95	0
09	TR2096	89	95	104	92	0
10	TR2097	106	99	106	101	0
11	TR2098	95	97	107	93	0
12	ARD2168	96	94	103	94	0
13	TR0037	103	95	100	95	0
14	TR0038	95	96	98	92	0
15	TR2095MS	95	93	106	101	0
16	TR2095MSD	93	101	107	101	0
17						
18						
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29						
30						

QC LIMITS

SMC1 (DCE) = 1,2-Dichloroethane-d4 (78-133)
 SMC2 (BFB) = Bromofluorobenzene (80-114)
 SMC3 (DCB) = 1,2-Dichlorobenzene-d4 (79-112)
 OTHER (TOL) = Toluene-d8 (79-111)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Population	100	105	110	115	120	125	130	135	140	145	150
Area	100	100	100	100	100	100	100	100	100	100	100
Income	100	105	110	115	120	125	130	135	140	145	150
Production	100	105	110	115	120	125	130	135	140	145	150
Consumption	100	105	110	115	120	125	130	135	140	145	150
Investment	100	105	110	115	120	125	130	135	140	145	150
Government	100	105	110	115	120	125	130	135	140	145	150
Private	100	105	110	115	120	125	130	135	140	145	150
Exports	100	105	110	115	120	125	130	135	140	145	150
Imports	100	105	110	115	120	125	130	135	140	145	150
Balance of Trade	100	105	110	115	120	125	130	135	140	145	150
Foreign Reserves	100	105	110	115	120	125	130	135	140	145	150
Government Debt	100	105	110	115	120	125	130	135	140	145	150
Private Debt	100	105	110	115	120	125	130	135	140	145	150
Total Debt	100	105	110	115	120	125	130	135	140	145	150
Government Expenditure	100	105	110	115	120	125	130	135	140	145	150
Private Expenditure	100	105	110	115	120	125	130	135	140	145	150
Total Expenditure	100	105	110	115	120	125	130	135	140	145	150
Government Revenue	100	105	110	115	120	125	130	135	140	145	150
Private Revenue	100	105	110	115	120	125	130	135	140	145	150
Total Revenue	100	105	110	115	120	125	130	135	140	145	150
Government Savings	100	105	110	115	120	125	130	135	140	145	150
Private Savings	100	105	110	115	120	125	130	135	140	145	150
Total Savings	100	105	110	115	120	125	130	135	140	145	150
Government Investment	100	105	110	115	120	125	130	135	140	145	150
Private Investment	100	105	110	115	120	125	130	135	140	145	150
Total Investment	100	105	110	115	120	125	130	135	140	145	150
Government Consumption	100	105	110	115	120	125	130	135	140	145	150
Private Consumption	100	105	110	115	120	125	130	135	140	145	150
Total Consumption	100	105	110	115	120	125	130	135	140	145	150
Government Imports	100	105	110	115	120	125	130	135	140	145	150
Private Imports	100	105	110	115	120	125	130	135	140	145	150
Total Imports	100	105	110	115	120	125	130	135	140	145	150
Government Exports	100	105	110	115	120	125	130	135	140	145	150
Private Exports	100	105	110	115	120	125	130	135	140	145	150
Total Exports	100	105	110	115	120	125	130	135	140	145	150
Government Debt to GDP	100	105	110	115	120	125	130	135	140	145	150
Private Debt to GDP	100	105	110	115	120	125	130	135	140	145	150
Total Debt to GDP	100	105	110	115	120	125	130	135	140	145	150
Government Expenditure to GDP	100	105	110	115	120	125	130	135	140	145	150
Private Expenditure to GDP	100	105	110	115	120	125	130	135	140	145	150
Total Expenditure to GDP	100	105	110	115	120	125	130	135	140	145	150
Government Revenue to GDP	100	105	110	115	120	125	130	135	140	145	150
Private Revenue to GDP	100	105	110	115	120	125	130	135	140	145	150
Total Revenue to GDP	100	105	110	115	120	125	130	135	140	145	150
Government Savings to GDP	100	105	110	115	120	125	130	135	140	145	150
Private Savings to GDP	100	105	110	115	120	125	130	135	140	145	150
Total Savings to GDP	100	105	110	115	120	125	130	135	140	145	150
Government Investment to GDP	100	105	110	115	120	125	130	135	140	145	150
Private Investment to GDP	100	105	110	115	120	125	130	135	140	145	150
Total Investment to GDP	100	105	110	115	120	125	130	135	140	145	150
Government Consumption to GDP	100	105	110	115	120	125	130	135	140	145	150
Private Consumption to GDP	100	105	110	115	120	125	130	135	140	145	150
Total Consumption to GDP	100	105	110	115	120	125	130	135	140	145	150
Government Imports to GDP	100	105	110	115	120	125	130	135	140	145	150
Private Imports to GDP	100	105	110	115	120	125	130	135	140	145	150
Total Imports to GDP	100	105	110	115	120	125	130	135	140	145	150
Government Exports to GDP	100	105	110	115	120	125	130	135	140	145	150
Private Exports to GDP	100	105	110	115	120	125	130	135	140	145	150
Total Exports to GDP	100	105	110	115	120	125	130	135	140	145	150

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.: 89326

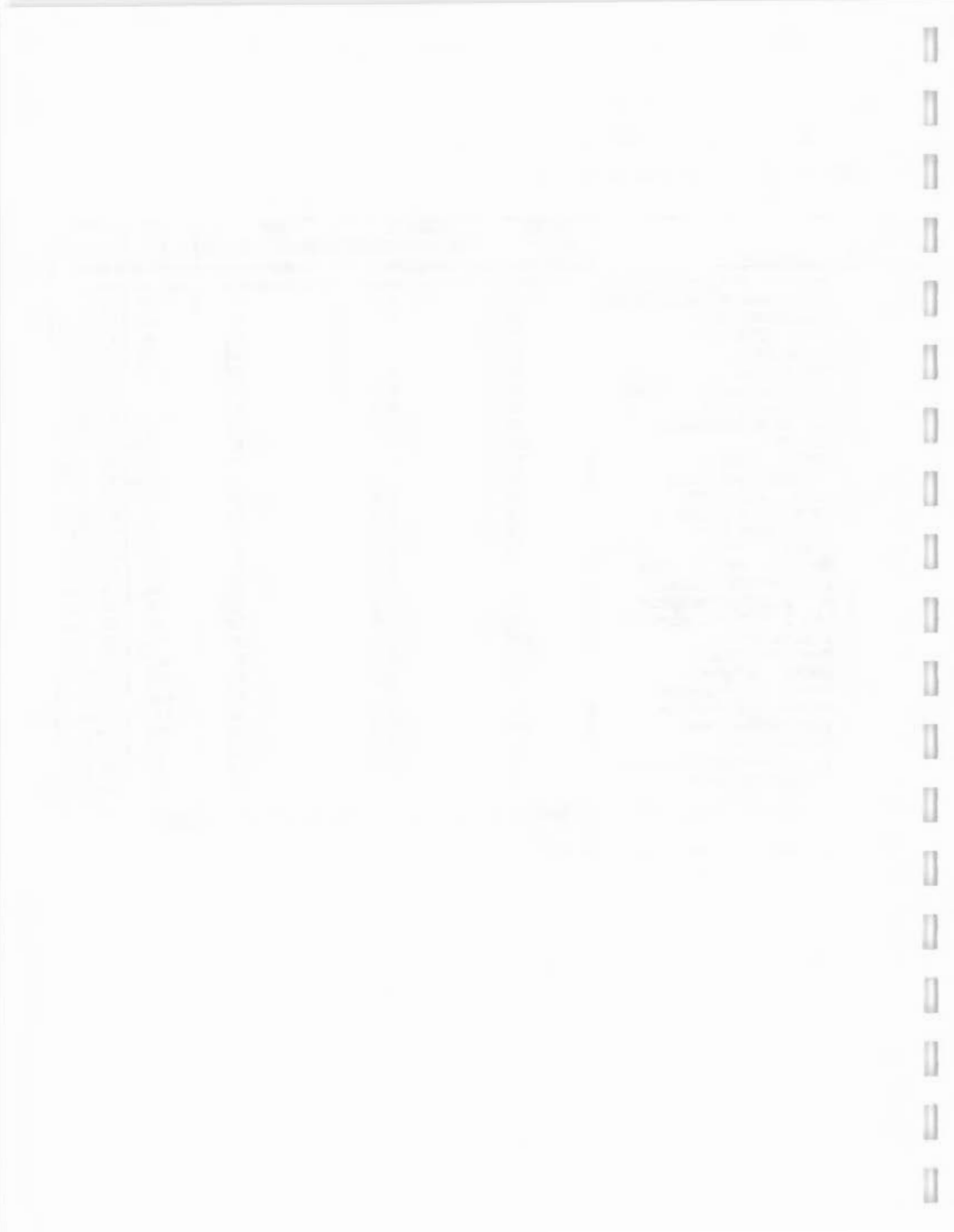
Matrix Spike - ENGSC2 Sample No.: TR2095

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	55	0.0	54	98	70-130
Chloromethane	55	0.0	49	89	70-130
Vinyl Chloride	55	0.0	53	96	70-130
Bromomethane	55	0.0	54	98	70-130
Chloroethane	55	0.0	56	102	70-130
Trichlorofluoromethane	55	0.0	51	93	70-130
Diethyl Ether	55	0.0	63	114	70-130
1,1-Dichloroethene	55	0.0	53	96	70-130
Acetone	280	0.0	140	50*	70-130
Methyl Iodide	55	0.0	63	114	70-130
Carbon Disulfide	55	0.0	75	136*	70-130
Allyl Chloride	55	0.0	55	100	70-130
Methylene Chloride	55	0.0	54	98	70-130
Acrylonitrile	55	0.0	66	120	70-130
trans-1,2-Dichloroethen	55	0.0	53	96	70-130
Methyl-t-Butyl Ether	55	0.0	58	105	70-130
1,1-Dichloroethane	55	0.0	50	91	70-130
2,2-Dichloropropane	55	0.0	53	96	70-130
cis-1,2-Dichloroethene	55	32	84	94	70-130
2-Butanone	280	0.0	200	71	70-130
Propionitrile	2800	0.0	3000	107	70-130
Methyl Acrylate	55	0.0	58	105	70-130
Bromochloromethane	55	0.0	58	105	70-130
Methacrylonitrile	55	0.0	62	113	70-130
Tetrahydrofuran	280	0.0	330	118	70-130
Chloroform	55	0.0	49	89	70-130
1,1,1-Trichloroethane	55	0.0	54	98	70-130
1-Chlorobutane	55	0.0	57	104	70-130

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

* Values outside of QC limits

COMMENTS: _____



FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix Spike - ENGSC2 Sample No.: TR2095

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Carbon Tetrachloride	55	0.0	51	93	70-130
1,1-Dichloropropene	55	0.0	48	87	70-130
Benzene	55	0.0	51	93	70-130
1,2-Dichloroethane	55	0.0	58	105	70-130
Trichloroethene	55	540	650	200*	70-130
Dibromomethane	55	0.0	58	105	70-130
1,2-Dichloropropane	55	0.0	50	91	70-130
Methyl Methacrylate	55	0.0	58	105	70-130
Bromodichloromethane	55	0.0	54	98	70-130
Chloroacetonitrile	2800	0.0	2900	104	70-130
cis-1,3-Dichloropropene	55	0.0	51	93	70-130
1,1-Dichloropropanone	2800	0.0	1500	54*	70-130
4-Methyl-2-Pentanone	280	0.0	280	100	70-130
2-Nitropropane	2800	0.0	1200	43*	70-130
Toluene	55	0.0	59	107	70-130
trans-1,3-Dichloroprope	55	0.0	51	93	70-130
Ethyl Methacrylate	55	0.0	59	107	70-130
1,1,2-Trichloroethane	55	0.0	58	105	70-130
Tetrachloroethene	55	0.0	54	98	70-130
1,3-Dichloropropane	55	0.0	60	109	70-130
2-Hexanone	280	0.0	200	71	70-130
Dibromochloromethane	55	0.0	47	85	70-130
1,2-Dibromoethane	55	0.0	55	100	70-130
Chlorobenzene	55	0.0	56	102	70-130
1,1,1,2-Tetrachloroetha	55	0.0	54	98	70-130
Ethylbenzene	55	0.0	54	98	70-130
m- & p-Xylene	110	0.0	110	100	70-130
o-Xylene	55	0.0	56	102	70-130

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

* Values outside of QC limits

COMMENTS:

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for ensuring the integrity of the financial data and for facilitating audits.

2. The second part of the document outlines the various methods used to collect and analyze data. It describes how different types of data are processed and how they are used to generate reports and insights.

3. The third part of the document focuses on the role of technology in modern data management. It discusses how software solutions have improved the efficiency and accuracy of data processing and analysis.

4. The fourth part of the document addresses the challenges associated with data security and privacy. It highlights the need for robust security measures to protect sensitive information from unauthorized access and breaches.

5. The fifth part of the document discusses the future of data management. It explores emerging trends and technologies that are expected to shape the way data is collected, stored, and analyzed in the coming years.

6. The final part of the document provides a summary of the key points discussed throughout the document. It reiterates the importance of data management and the need for continuous improvement in this field.

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.: 89326

Matrix Spike - ENGSC2 Sample No.: TR2095

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Styrene	55	0.0	54	98	70-130
Bromoform	55	0.0	45	82	70-130
Xylene (total)	160	0.0	170	106	70-130
Isopropylbenzene	55	0.0	56	102	70-130
Bromobenzene	55	0.0	55	100	70-130
1,1,2,2-Tetrachloroetha	55	0.0	58	105	70-130
1,2,3-Trichloropropane	55	0.0	60	109	70-130
trans-1,4-Dichloro-2-bu	55	0.0	50	91	70-130
2-Chlorotoluene	55	0.0	57	104	70-130
4-Chlorotoluene	55	0.0	56	102	70-130
n-Propylbenzene	55	0.0	57	104	70-130
1,3,5-Trimethylbenzene	55	0.0	56	102	70-130
Pentachloroethane	55	0.0	81	147*	70-130
tert-Butylbenzene	55	0.0	60	109	70-130
1,2,4-Trimethylbenzene	55	0.0	55	100	70-130
sec-Butylbenzene	55	0.0	56	102	70-130
1,3-Dichlorobenzene	55	0.0	56	102	70-130
p-Isopropyltoluene	55	0.0	58	105	70-130
1,4-Dichlorobenzene	55	0.0	58	105	70-130
1,2-Dichlorobenzene	55	0.0	58	105	70-130
n-Butylbenzene	55	0.0	58	105	70-130
Hexachloroethane	55	0.0	56	102	70-130
1,2-Dibromo-3-Chloropro	55	0.0	58	105	70-130
Nitrobenzene	2800	0.0	2100	75	70-130
1,2,4-Trichlorobenzene	55	0.0	60	109	70-130
Hexachlorobutadiene	55	0.0	59	107	70-130
Naphthalene	55	0.0	62	113	70-130
1,2,3-Trichlorobenzene	55	0.0	62	113	70-130

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

* Values outside of QC limits

COMMENTS:

Date	Description	Debit	Credit	Balance	Total
1900	Jan 1				
1900	Jan 2				
1900	Jan 3				
1900	Jan 4				
1900	Jan 5				
1900	Jan 6				
1900	Jan 7				
1900	Jan 8				
1900	Jan 9				
1900	Jan 10				
1900	Jan 11				
1900	Jan 12				
1900	Jan 13				
1900	Jan 14				
1900	Jan 15				
1900	Jan 16				
1900	Jan 17				
1900	Jan 18				
1900	Jan 19				
1900	Jan 20				
1900	Jan 21				
1900	Jan 22				
1900	Jan 23				
1900	Jan 24				
1900	Jan 25				
1900	Jan 26				



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.: 89326

Matrix Spike - ENGSC2 Sample No.: TR2095

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Dichlorodifluoromethane	55	47	85	14	40	70-130
Chloromethane	55	46	84	6	40	70-130
Vinyl Chloride	55	54	98	2	40	70-130
Bromomethane	55	53	96	2	40	70-130
Chloroethane	55	54	98	4	40	70-130
Trichlorofluoromethane	55	51	93	0	40	70-130
Diethyl Ether	55	60	109	4	40	70-130
1,1-Dichloroethene	55	50	91	5	40	70-130
Acetone	280	150	54*	8	40	70-130
Methyl Iodide	55	62	113	1	40	70-130
Carbon Disulfide	55	80	145*	6	40	70-130
Allyl Chloride	55	52	94	6	40	70-130
Methylene Chloride	55	55	100	2	40	70-130
Acrylonitrile	55	65	118	2	40	70-130
trans-1,2-Dichloroethen	55	56	102	6	40	70-130
Methyl-t-Butyl Ether	55	57	104	1	40	70-130
1,1-Dichloroethane	55	46	84	8	40	70-130
2,2-Dichloropropane	55	50	91	5	40	70-130
cis-1,2-Dichloroethene	55	87	100	6	40	70-130
2-Butanone	280	180	64*	10	40	70-130
Propionitrile	2800	2800	100	7	40	70-130
Methyl Acrylate	55	54	98	7	40	70-130
Bromochloromethane	55	56	102	3	40	70-130
Methacrylonitrile	55	56	102	10	40	70-130
Tetrahydrofuran	280	290	104	13	40	70-130
Chloroform	55	48	87	2	40	70-130
1,1,1-Trichloroethane	55	50	91	7	40	70-130
1-Chlorobutane	55	48	87	18	40	70-130

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

* Values outside of QC limits

COMMENTS:



FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix Spike - ENGSC2 Sample No.: TR2095

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Carbon Tetrachloride	55	48	87	7	40	70-130
1,1-Dichloropropene	55	51	93	7	40	70-130
Benzene	55	49	89	4	40	70-130
1,2-Dichloroethane	55	55	100	5	40	70-130
Trichloroethene	55	650	200*	0	40	70-130
Dibromomethane	55	56	102	3	40	70-130
1,2-Dichloropropane	55	50	91	0	40	70-130
Methyl Methacrylate	55	56	102	3	40	70-130
Bromodichloromethane	55	52	94	4	40	70-130
Chloroacetonitrile	2800	2700	96	8	40	70-130
cis-1,3-Dichloropropene	55	51	93	0	40	70-130
1,1-Dichloropropanone	2800	1400	50*	8	40	70-130
4-Methyl-2-Pentanone	280	270	96	4	40	70-130
2-Nitropropane	2800	1100	39*	10	40	70-130
Toluene	55	56	102	5	40	70-130
trans-1,3-Dichloroprope	55	51	93	0	40	70-130
Ethyl Methacrylate	55	57	104	3	40	70-130
1,1,2-Trichloroethane	55	53	96	9	40	70-130
Tetrachloroethene	55	51	93	5	40	70-130
1,3-Dichloropropane	55	58	105	4	40	70-130
2-Hexanone	280	180	64*	10	40	70-130
Dibromochloromethane	55	48	87	2	40	70-130
1,2-Dibromoethane	55	56	102	2	40	70-130
Chlorobenzene	55	55	100	2	40	70-130
1,1,1,2-Tetrachloroetha	55	52	94	4	40	70-130
Ethylbenzene	55	54	98	0	40	70-130
m- & p-Xylene	110	110	100	0	40	70-130
o-Xylene	55	56	102	0	40	70-130

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

* Values outside of QC limits

COMMENTS:

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for ensuring the integrity of the financial data and for facilitating audits.

2. The second part of the document outlines the various methods used to collect and analyze data. It includes a detailed description of the sampling process and the statistical techniques employed to interpret the results.

3. The third part of the document provides a comprehensive overview of the findings from the study. It highlights the key trends and patterns observed in the data, as well as the implications of these findings for the industry.

4. The fourth part of the document discusses the limitations of the study and suggests areas for future research. It acknowledges that while the current study provides valuable insights, there are still several questions that remain unanswered.

5. The fifth part of the document concludes the report by summarizing the main points and reiterating the significance of the research. It expresses the hope that the findings will be useful to practitioners and researchers alike.

6. The final part of the document includes a list of references and a list of appendices. The references cite the key sources used in the study, and the appendices provide additional data and supporting information.

7. The document is signed and dated at the bottom, indicating the author's responsibility for the content and the date of completion.

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.: 89326

Matrix Spike - ENGSC2 Sample No.: TR2095

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
Styrene	55	55	100	2	40	70-130
Bromoform	55	48	87	6	40	70-130
Xylene (total)	160	170	106	0	40	70-130
Isopropylbenzene	55	56	102	0	40	70-130
Bromobenzene	55	56	102	2	40	70-130
1,1,2,2-Tetrachloroetha	55	59	107	2	40	70-130
1,2,3-Trichloropropane	55	61	111	2	40	70-130
trans-1,4-Dichloro-2-bu	55	53	96	5	40	70-130
2-Chlorotoluene	55	57	104	0	40	70-130
4-Chlorotoluene	55	55	100	2	40	70-130
n-Propylbenzene	55	58	105	1	40	70-130
1,3,5-Trimethylbenzene	55	56	102	0	40	70-130
Pentachloroethane	55	78	142*	3	40	70-130
tert-Butylbenzene	55	58	105	4	40	70-130
1,2,4-Trimethylbenzene	55	57	104	4	40	70-130
sec-Butylbenzene	55	57	104	2	40	70-130
1,3-Dichlorobenzene	55	58	105	3	40	70-130
p-Isopropyltoluene	55	57	104	1	40	70-130
1,4-Dichlorobenzene	55	59	107	2	40	70-130
1,2-Dichlorobenzene	55	59	107	2	40	70-130
n-Butylbenzene	55	58	105	0	40	70-130
Hexachloroethane	55	55	100	2	40	70-130
1,2-Dibromo-3-Chloropro	55	54	98	7	40	70-130
Nitrobenzene	2800	2400	86	14	40	70-130
1,2,4-Trichlorobenzene	55	61	111	2	40	70-130
Hexachlorobutadiene	55	60	109	2	40	70-130
Naphthalene	55	62	113	0	40	70-130
1,2,3-Trichlorobenzene	55	63	114	1	40	70-130

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

* Values outside of QC limits

RPD: 0 out of 84 outside limits

Spike Recovery: 14 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.: 89326

Matrix Spike - Sample No.: MYFB LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	1.0		0.92	92	70-130
Chloromethane	1.0		0.99	99	70-130
Vinyl Chloride	1.0		0.94	94	70-130
Bromomethane	1.0		0.96	96	70-130
Chloroethane	1.0		1.1	110	70-130
Trichlorofluoromethane	1.0		0.93	93	70-130
Diethyl Ether	1.0		1.2	120	70-130
1,1-Dichloroethene	1.0		1.0	100	70-130
Acetone	5.0		3.4	68*	70-130
Methyl Iodide	1.0		1.2	120	70-130
Carbon Disulfide	1.0		1.8	180*	70-130
Allyl Chloride	1.0		0.96	96	70-130
Methylene Chloride	1.0		1.1	110	70-130
Acrylonitrile	1.0		1.2	120	70-130
trans-1,2-Dichloroethen	1.0		1.0	100	70-130
Methyl-t-Butyl Ether	1.0		0.95	95	70-130
1,1-Dichloroethane	1.0		0.98	98	70-130
2,2-Dichloropropane	1.0		0.98	98	70-130
cis-1,2-Dichloroethene	1.0		0.98	98	70-130
2-Butanone	5.0		3.9	78	70-130
Propionitrile	50		47	94	70-130
Methyl Acrylate	1.0		1.1	110	70-130
Bromochloromethane	1.0		1.0	100	70-130
Methacrylonitrile	1.0		1.2	120	70-130
Tetrahydrofuran	5.0		5.3	106	70-130
Chloroform	1.0		0.90	90	70-130
1,1,1-Trichloroethane	1.0		0.97	97	70-130
1-Chlorobutane	1.0		0.96	96	70-130

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

* Values outside of QC limits

COMMENTS: _____

Date	Description	Debit	Credit	Balance
1901	Jan 1			
	Jan 2			
	Jan 3			
	Jan 4			
	Jan 5			
	Jan 6			
	Jan 7			
	Jan 8			
	Jan 9			
	Jan 10			
	Jan 11			
	Jan 12			
	Jan 13			
	Jan 14			
	Jan 15			
	Jan 16			
	Jan 17			
	Jan 18			
	Jan 19			
	Jan 20			
	Jan 21			
	Jan 22			
	Jan 23			
	Jan 24			
	Jan 25			
	Jan 26			
	Jan 27			
	Jan 28			
	Jan 29			
	Jan 30			
	Jan 31			
	Feb 1			
	Feb 2			
	Feb 3			
	Feb 4			
	Feb 5			
	Feb 6			
	Feb 7			
	Feb 8			
	Feb 9			
	Feb 10			
	Feb 11			
	Feb 12			
	Feb 13			
	Feb 14			
	Feb 15			
	Feb 16			
	Feb 17			
	Feb 18			
	Feb 19			
	Feb 20			
	Feb 21			
	Feb 22			
	Feb 23			
	Feb 24			
	Feb 25			
	Feb 26			
	Feb 27			
	Feb 28			
	Feb 29			
	Feb 30			
	Feb 31			

Total Debit _____
 Total Credit _____
 Balance _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix Spike - Sample No.: MYFB LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Carbon Tetrachloride	1.0		0.85	85	70-130
1,1-Dichloropropene	1.0		0.99	99	70-130
Benzene	1.0		0.92	92	70-130
1,2-Dichloroethane	1.0		1.0	100	70-130
Trichloroethene	1.0		0.95	95	70-130
Dibromomethane	1.0		0.99	99	70-130
1,2-Dichloropropane	1.0		1.0	100	70-130
Methyl Methacrylate	1.0		1.4	140*	70-130
Bromodichloromethane	1.0		1.0	100	70-130
Chloroacetonitrile	50		53	106	70-130
cis-1,3-Dichloropropene	1.0		1.0	100	70-130
1,1-Dichloropropanone	20		23	115	70-130
4-Methyl-2-Pentanone	5.0		4.6	92	70-130
2-Nitropropane	20		20	100	70-130
Toluene	1.0		1.1	110	70-130
trans-1,3-Dichloroprope	1.0		1.0	100	70-130
Ethyl Methacrylate	1.0		0.98	98	70-130
1,1,2-Trichloroethane	1.0		0.97	97	70-130
Tetrachloroethene	1.0		0.98	98	70-130
1,3-Dichloropropane	1.0		1.0	100	70-130
2-Hexanone	5.0		3.7	74	70-130
Dibromochloromethane	1.0		0.95	95	70-130
1,2-Dibromoethane	1.0		0.97	97	70-130
Chlorobenzene	1.0		1.0	100	70-130
1,1,1,2-Tetrachloroetha	1.0		0.97	97	70-130
Ethylbenzene	1.0		1.0	100	70-130
m- & p-Xylene	2.0		2.0	100	70-130
o-Xylene	1.0		1.0	100	70-130

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

* Values outside of QC limits

COMMENTS:

Date	Description	Debit	Credit	Balance
1900	Jan 1			
	Jan 2			
	Jan 3			
	Jan 4			
	Jan 5			
	Jan 6			
	Jan 7			
	Jan 8			
	Jan 9			
	Jan 10			
	Jan 11			
	Jan 12			
	Jan 13			
	Jan 14			
	Jan 15			
	Jan 16			
	Jan 17			
	Jan 18			
	Jan 19			
	Jan 20			
	Jan 21			
	Jan 22			
	Jan 23			
	Jan 24			
	Jan 25			
	Jan 26			
	Jan 27			
	Jan 28			
	Jan 29			
	Jan 30			
	Jan 31			
	Feb 1			
	Feb 2			
	Feb 3			
	Feb 4			
	Feb 5			
	Feb 6			
	Feb 7			
	Feb 8			
	Feb 9			
	Feb 10			
	Feb 11			
	Feb 12			
	Feb 13			
	Feb 14			
	Feb 15			
	Feb 16			
	Feb 17			
	Feb 18			
	Feb 19			
	Feb 20			
	Feb 21			
	Feb 22			
	Feb 23			
	Feb 24			
	Feb 25			
	Feb 26			
	Feb 27			
	Feb 28			
	Feb 29			
	Feb 30			
	Feb 31			

Total

Grand Total

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Matrix Spike - Sample No.: MYFB LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Styrene	1.0		0.99	99	70-130
Bromoform	1.0		0.92	92	70-130
Xylene (total)	3.0		3.1	103	70-130
Isopropylbenzene	1.0		1.0	100	70-130
Bromobenzene	1.0		0.99	99	70-130
1,1,2,2-Tetrachloroetha	1.0		1.0	100	70-130
1,2,3-Trichloropropane	1.0		1.1	110	70-130
trans-1,4-Dichloro-2-bu	1.0		1.1	110	70-130
2-Chlorotoluene	1.0		1.0	100	70-130
4-Chlorotoluene	1.0		1.1	110	70-130
n-Propylbenzene	1.0		1.0	100	70-130
1,3,5-Trimethylbenzene	1.0		1.0	100	70-130
Pentachloroethane	1.0		1.2	120	70-130
tert-Butylbenzene	1.0		1.0	100	70-130
1,2,4-Trimethylbenzene	1.0		1.0	100	70-130
sec-Butylbenzene	1.0		1.0	100	70-130
1,3-Dichlorobenzene	1.0		1.0	100	70-130
p-Isopropyltoluene	1.0		1.0	100	70-130
1,4-Dichlorobenzene	1.0		1.0	100	70-130
1,2-Dichlorobenzene	1.0		1.0	100	70-130
n-Butylbenzene	1.0		1.1	110	70-130
Hexachloroethane	1.0		0.96	96	70-130
1,2-Dibromo-3-Chloropro	1.0		1.2	120	70-130
Nitrobenzene	50		52	104	70-130
1,2,4-Trichlorobenzene	1.0		1.1	110	70-130
Hexachlorobutadiene	1.0		1.1	110	70-130
Naphthalene	1.0		1.1	110	70-130
1,2,3-Trichlorobenzene	1.0		1.2	120	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 3 out of 84 outside limits

COMMENTS:



FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKZ1

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Lab File ID: MYFB01B

Lab Sample ID: VBLKZ1

Date Analyzed: 08/26/02

Time Analyzed: 0246

GC Column: CAP

ID: 0.53 (mm)

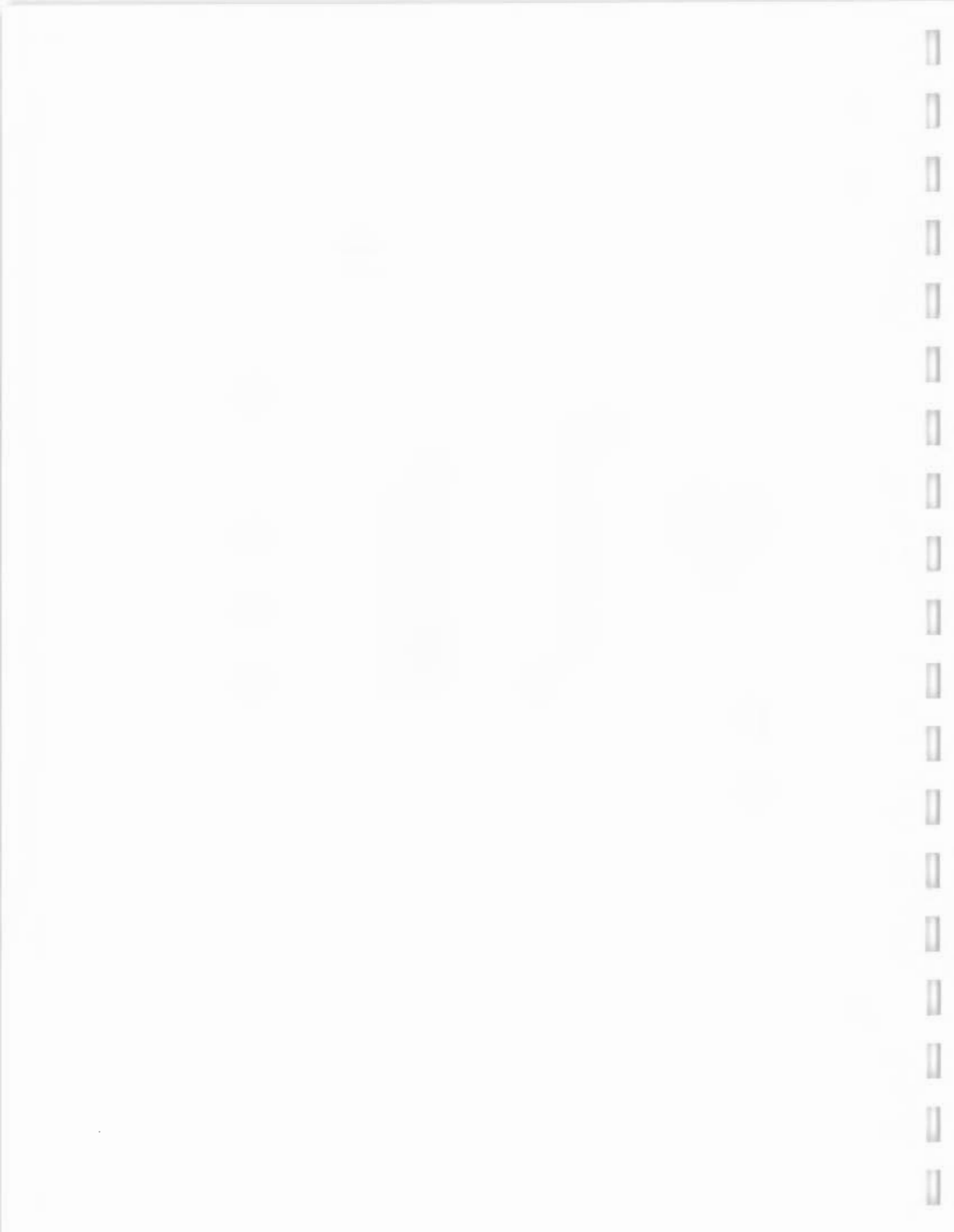
Heated Purge: (Y/N) N

Instrument ID: M

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MYFB LCS	MYFB LCS	MYF01BQ	0218
02	TR2091	498072	498072D	0545
03	TR2092	498073	498073	0614
04	TR2093	498074	498074D	0642
05	TR2094	498075	498075	0711
06	TR2099	498076	498076	0739
07	TR2095	498077	498077D	0808
08	TR2096	498078	498078D	0836
09	TR2097	498079	498079	0902
10	TR2098	498080	498080	0931
11	ARD2168	498084	498084	0956
12	TR0037	498085	498085	1024
13	TR0038	498086	498086	1053
14	TR2095MS	498077MS	498077M	1121
15	TR2095MSD	498077MD	498077S	1150
16				
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28				
29				
30				

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.: 89326

Lab File ID: MYF01PV

BFB Injection Date: 08/22/02

Instrument ID: M

BFB Injection Time: 2355

GC Column: CAP

ID: 0.53 (mm)

Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.3
75	30.0 - 60.0% of mass 95	47.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 120.0% of mass 95	60.7
175	5.0 - 9.0% of mass 174	4.5 (7.3)1
176	95.0 - 101.0% of mass 174	60.5 (99.7)1
177	5.0 - 9.0% of mass 176	3.8 (6.3)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0005	VSTD0005	MYF005V	08/23/02	0113
02	VSTD002	VSTD002	MYF02V	08/23/02	0142
03	VSTD010	VSTD010	MYF10V	08/23/02	0211
04	VSTD020	VSTD020	MYF20V	08/23/02	0240
05	VSTD030	VSTD030	MYF30V	08/23/02	0308
06					
07					
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22					

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Date	Description	Amount	Balance	Total	Remarks
1/1/19	To Balance	100.00	100.00		
1/2/19	By Cash	50.00	150.00		
1/3/19	To Cash	25.00	175.00		
1/4/19	By Cash	75.00	250.00		
1/5/19	To Cash	100.00	350.00		
1/6/19	By Cash	50.00	300.00		
1/7/19	To Cash	150.00	450.00		

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6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Instrument ID: M

Calibration Date(s): 08/23/02

08/23/02

Heated Purge: (Y/N) N

Calibration Time(s): 0113

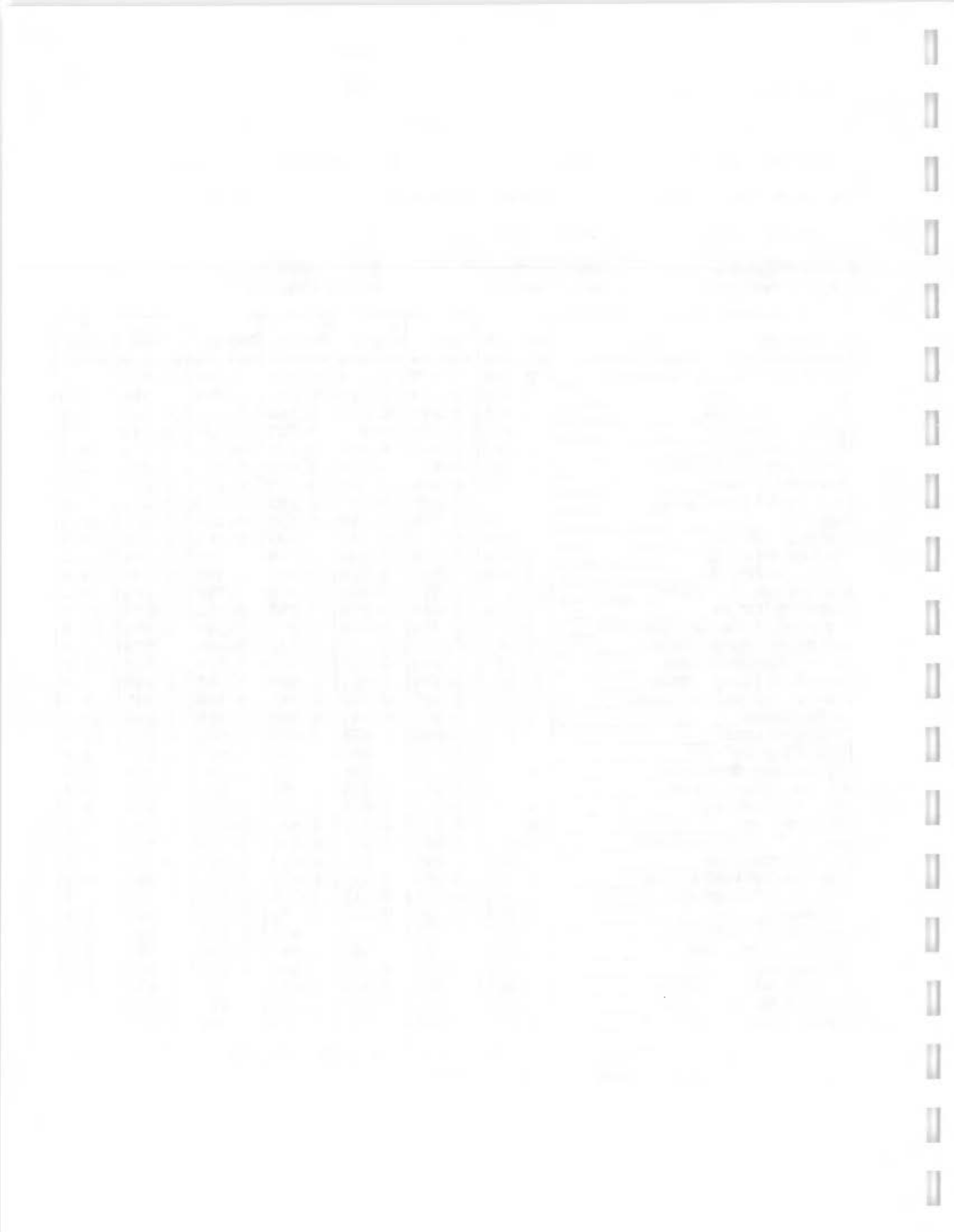
0308

GC Column: CAP

ID: 0.53 (mm)

LAB FILE ID:	RRF0.5=MYF005V	RRF2 =MYF02V					
RRF10 =MYF10V	RRF20 =MYF20V	RRF30 =MYF30V					
COMPOUND	RRF0.5	RRF2	RRF10	RRF20	RRF30	RRF	% RSD
Dichlorodifluoromethane	0.674	0.478	0.485	0.520	0.508	0.533	15.1
Chloromethane	0.369	0.219	0.225	0.254	0.254	0.264	23.0
Vinyl Chloride	0.313	0.247	0.239	0.264	0.258	0.264	11.0
Bromomethane	0.373	0.224	0.217	0.207	0.192	0.243	30.5
Chloroethane	0.238	0.144	0.160	0.176	0.159	0.175	20.9
Trichlorofluoromethane	0.632	0.523	0.558	0.600	0.587	0.580	7.2
Diethyl Ether	0.172	0.161	0.167	0.177	0.173	0.170	3.7
1,1-Dichloroethene	0.324	0.250	0.253	0.292	0.287	0.281	11.0
Acetone	0.089	0.071	0.114	0.136	0.138	0.110	26.8
Methyl Iodide	0.446	0.349	0.368	0.397	0.369	0.386	9.8
Carbon Disulfide	0.464	0.369	0.368	0.390	0.381	0.394	10.2
Allyl Chloride	0.484	0.324	0.326	0.346	0.334	0.363	18.8
Methylene Chloride	0.305	0.323	0.295	0.322	0.299	0.309	4.2
Acrylonitrile	0.084	0.044	0.054	0.053	0.051	0.057	27.2
trans-1,2-Dichloroethene	0.374	0.266	0.289	0.323	0.326	0.316	13.0
Methyl-t-Butyl Ether	0.745	0.613	0.641	0.708	0.688	0.679	7.8
1,1-Dichloroethane	0.661	0.540	0.637	0.674	0.630	0.628	8.4
2,2-Dichloropropane	0.561	0.474	0.461	0.498	0.481	0.495	7.9
cis-1,2-Dichloroethene	0.356	0.322	0.332	0.345	0.369	0.345	5.4
2-Butanone	0.027	0.027	0.041	0.048	0.049	0.038	27.7
Propionitrile	0.023	0.022	0.026	0.029	0.028	0.026	10.9
Methyl Acrylate	0.484	0.491	0.523	0.564	0.567	0.526	7.5
Bromochloromethane	0.218	0.210	0.226	0.241	0.225	0.224	5.2
Methacrylonitrile	0.106	0.092	0.081	0.088	0.087	0.091	10.4
Tetrahydrofuran	0.071	0.061	0.067	0.077	0.075	0.070	9.0
Chloroform	0.745	0.647	0.736	0.826	0.806	0.752	9.3
1,1,1-Trichloroethane	0.631	0.526	0.542	0.591	0.576	0.573	7.2
1-Chlorobutane	0.667	0.519	0.582	0.638	0.624	0.606	9.5
Carbon Tetrachloride	0.487	0.392	0.422	0.472	0.470	0.449	8.9
1,1-Dichloropropene	0.581	0.435	0.514	0.560	0.536	0.525	10.7
Benzene	0.924	0.887	0.968	1.073	0.993	0.969	7.3
1,2-Dichloroethane	0.439	0.401	0.434	0.467	0.457	0.440	5.8
Trichloroethene	0.489	0.389	0.431	0.494	0.467	0.454	9.7
Dibromomethane	0.418	0.412	0.407	0.445	0.430	0.422	3.6
1,2-Dichloropropane	0.497	0.404	0.404	0.434	0.427	0.433	8.8
Methyl Methacrylate	0.240	0.212	0.223	0.246	0.241	0.232	6.0
Bromodichloromethane	0.653	0.646	0.654	0.719	0.702	0.675	4.9

* 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.: 89326

Instrument ID: M

Calibration Date(s): 08/23/02

08/23/02

Heated Purge: (Y/N) N

Calibration Time(s): 0113

0308

GC Column: CAP

ID: 0.53 (mm)

LAB FILE ID:	RRF0.5=MYF005V	RRF2 =MYF02V					
RRF10 =MYF10V	RRF20 =MYF20V	RRF30 =MYF30V					
COMPOUND	RRF0.5	RRF2	RRF10	RRF20	RRF30	RRF	% RSD
Chloroacetonitrile	0.013	0.012	0.014	0.015	0.014	0.014	8.7
cis-1,3-Dichloropropene	0.671	0.598	0.640	0.679	0.659	0.649	5.0
1,1-Dichloropropanone	0.006	0.007	0.007	0.008	0.008	0.007	9.2
4-Methyl-2-Pentanone	0.140	0.119	0.134	0.156	0.153	0.140	10.5
2-Nitropropane	0.057	0.054	0.058	0.064	0.062	0.059	7.2
Toluene	0.623	0.614	0.626	0.692	0.655	0.642	4.9
trans-1,3-Dichloropropene	0.551	0.510	0.527	0.591	0.566	0.549	5.8
Ethyl Methacrylate	0.512	0.446	0.474	0.538	0.520	0.498	7.4
1,1,2-Trichloroethane	0.424	0.322	0.322	0.358	0.348	0.355	11.8
Tetrachloroethene	0.522	0.605	0.727	0.825	0.826	0.701	19.3
1,3-Dichloropropane	0.562	0.574	0.592	0.655	0.632	0.603	6.6
2-Hexanone	0.232	0.223	0.356	0.416	0.419	0.329	29.2
Dibromochloromethane	0.750	0.727	0.728	0.800	0.816	0.764	5.4
1,2-Dibromoethane	0.682	0.680	0.686	0.745	0.754	0.709	5.2
Chlorobenzene	0.969	0.971	0.948	1.017	1.026	0.986	3.4
1,1,1,2-Tetrachloroethane	0.577	0.491	0.486	0.524	0.535	0.523	7.1
Ethylbenzene	1.528	1.575	1.577	1.672	1.675	1.605	4.1
m- & p-Xylene	0.548	0.539	0.559	0.596	0.595	0.567	4.7
o-Xylene	0.541	0.535	0.526	0.565	0.568	0.547	3.4
Styrene	0.935	0.945	0.969	1.013	1.031	0.979	4.3
Bromoform	0.521	0.528	0.569	0.628	0.648	0.579	9.9
Xylene (total)	0.541	0.535	0.526	0.565	0.568	0.547	3.4
Isopropylbenzene	1.527	1.558	1.576	1.703	1.700	1.613	5.1
Bromobenzene	0.534	0.526	0.536	0.568	0.572	0.547	3.9
1,1,2,2-Tetrachloroethane	0.814	0.754	0.729	0.774	0.790	0.772	4.2
1,2,3-Trichloropropane	0.199	0.187	0.176	0.190	0.193	0.189	4.4
trans-1,4-Dichloro-2-butene	0.169	0.134	0.125	0.140	0.136	0.141	12.0
2-Chlorotoluene	0.385	0.366	0.361	0.384	0.387	0.377	3.2
4-Chlorotoluene	0.380	0.389	0.365	0.385	0.398	0.383	3.2
n-Propylbenzene	0.383	0.354	0.365	0.385	0.391	0.376	4.2
1,3,5-Trimethylbenzene	1.243	1.128	1.184	1.233	1.240	1.206	4.1
Pentachloroethane	0.301	0.277	0.226	0.224	0.187	0.243	18.8
tert-Butylbenzene	0.315	0.304	0.294	0.312	0.310	0.307	2.7
1,2,4-Trimethylbenzene	1.229	1.141	1.163	1.256	1.259	1.210	4.5
sec-Butylbenzene	1.766	1.670	1.716	1.833	1.828	1.763	4.0
1,3-Dichlorobenzene	0.827	0.797	0.831	0.885	0.880	0.844	4.4
p-Isopropyltoluene	1.331	1.241	1.259	1.336	1.340	1.301	3.6

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

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for ensuring the integrity of the financial data and for facilitating audits.

2. The second part of the document outlines the various methods used to collect and analyze data. It includes a detailed description of the sampling process and the statistical techniques employed to interpret the results.

3. The third part of the document provides a comprehensive overview of the findings. It highlights the key trends and patterns observed in the data, as well as the implications of these findings for the organization's operations.

4. The final part of the document offers recommendations and conclusions based on the analysis. It suggests specific actions that should be taken to address the identified issues and to improve the overall performance of the organization.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Instrument ID: M

Calibration Date: 08/26/02

Time: 0150

Lab File ID: MYF02BV

Init. Calib. Date(s): 08/23/02

08/23/02

Heated Purge: (Y/N) N

Init. Calib. Times: 0113

0308

GC Column: CAP

ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.533	0.622	0.01	16.7	30.0
Chloromethane	0.264	0.285	0.01	8.0	30.0
Vinyl Chloride	0.264	0.308	0.01	16.7	30.0
Bromomethane	0.243	0.267	0.01	9.9	30.0
Chloroethane	0.175	0.205	0.01	17.1	30.0
Trichlorofluoromethane	0.580	0.633	0.01	9.1	30.0
Diethyl Ether	0.170	0.173	0.01	1.8	30.0
1,1-Dichloroethene	0.281	0.298	0.01	6.0	30.0
Acetone	0.110	0.069	0.01	37.3	30.0
Methyl Iodide	0.386	0.449	0.01	16.3	30.0
Carbon Disulfide	0.394	0.434	0.01	10.2	30.0
Allyl Chloride	0.363	0.384	0.01	5.8	30.0
Methylene Chloride	0.309	0.313	0.01	1.3	30.0
Acrylonitrile	0.057	0.066	0.01	15.8	30.0
trans-1,2-Dichloroethene	0.316	0.334	0.01	5.7	30.0
Methyl-t-Butyl Ether	0.679	0.655	0.01	3.5	30.0
1,1-Dichloroethane	0.628	0.641	0.01	2.1	30.0
2,2-Dichloropropane	0.495	0.557	0.01	12.5	30.0
cis-1,2-Dichloroethene	0.345	0.348	0.01	0.9	30.0
2-Butanone	0.038	0.026	0.01	31.6	30.0
Propionitrile	0.026	0.024	0.01	7.7	30.0
Methyl Acrylate	0.526	0.529	0.01	0.6	30.0
Bromochloromethane	0.224	0.211	0.01	5.8	30.0
Methacrylonitrile	0.091	0.080	0.01	12.1	30.0
Tetrahydrofuran	0.070	0.066	0.01	5.7	30.0
Chloroform	0.752	0.716	0.01	4.8	30.0
1,1,1-Trichloroethane	0.573	0.602	0.01	5.1	30.0
1-Chlorobutane	0.606	0.601	0.01	0.8	30.0
Carbon Tetrachloride	0.449	0.507	0.01	12.9	30.0
1,1-Dichloropropene	0.525	0.538	0.01	2.5	30.0
Benzene	0.969	0.944	0.01	2.6	30.0
1,2-Dichloroethane	0.440	0.397	0.01	9.8	30.0
Trichloroethene	0.454	0.405	0.01	10.8	30.0
Dibromomethane	0.422	0.390	0.01	7.6	30.0
1,2-Dichloropropane	0.433	0.392	0.01	9.5	30.0
Methyl Methacrylate	0.232	0.207	0.01	10.8	30.0
Bromodichloromethane	0.675	0.676	0.01	0.1	30.0

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FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Instrument ID: M

Calibration Date: 08/26/02

Time: 0150

Lab File ID: MYF02BV

Init. Calib. Date(s): 08/23/02

08/23/02

Heated Purge: (Y/N) N

Init. Calib. Times: 0113

0308

GC Column: CAP

ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
Chloroacetonitrile	0.014	0.015	0.01	7.1	30.0
cis-1,3-Dichloropropene	0.649	0.652	0.01	0.5	30.0
1,1-Dichloropropanone	0.007	0.008	0.01	14.3	30.0
4-Methyl-2-Pentanone	0.140	0.118	0.01	15.7	30.0
2-Nitropropane	0.059	0.055	0.01	6.8	30.0
Toluene	0.642	0.570	0.01	11.2	30.0
trans-1,3-Dichloropropene	0.549	0.514	0.01	6.4	30.0
Ethyl Methacrylate	0.498	0.444	0.01	10.8	30.0
1,1,2-Trichloroethane	0.355	0.309	0.01	13.0	30.0
Tetrachloroethene	0.701	0.494	0.01	29.5	30.0
1,3-Dichloropropane	0.603	0.569	0.01	5.6	30.0
2-Hexanone	0.329	0.199	0.01	39.5	30.0
Dibromochloromethane	0.764	0.730	0.01	4.4	30.0
1,2-Dibromoethane	0.709	0.681	0.01	3.9	30.0
Chlorobenzene	0.986	0.947	0.01	4.0	30.0
1,1,1,2-Tetrachloroethane	0.523	0.509	0.01	2.7	30.0
Ethylbenzene	1.605	1.554	0.01	3.2	30.0
m- & p-Xylene	0.567	0.541	0.01	4.6	30.0
o-Xylene	0.547	0.522	0.01	4.6	30.0
Styrene	0.979	0.927	0.01	5.3	30.0
Bromoform	0.579	0.502	0.01	13.3	30.0
Xylene (total)	0.547	0.522	0.01	4.6	30.0
Isopropylbenzene	1.613	1.557	0.01	3.5	30.0
Bromobenzene	0.547	0.505	0.01	7.7	30.0
1,1,2,2-Tetrachloroethane	0.772	0.756	0.01	2.1	30.0
1,2,3-Trichloropropane	0.189	0.178	0.01	5.8	30.0
trans-1,4-Dichloro-2-butene	0.141	0.112	0.01	20.6	30.0
2-Chlorotoluene	0.377	0.362	0.01	4.0	30.0
4-Chlorotoluene	0.383	0.366	0.01	4.4	30.0
n-Propylbenzene	0.376	0.355	0.01	5.6	30.0
1,3,5-Trimethylbenzene	1.206	1.116	0.01	7.5	30.0
Pentachloroethane	0.243	0.291	0.01	19.8	30.0
tert-Butylbenzene	0.307	0.302	0.01	1.6	30.0
1,2,4-Trimethylbenzene	1.210	1.138	0.01	6.0	30.0
sec-Butylbenzene	1.763	1.693	0.01	4.0	30.0
1,3-Dichlorobenzene	0.844	0.791	0.01	6.3	30.0
p-Isopropyltoluene	1.301	1.216	0.01	6.5	30.0

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that this is crucial for ensuring the integrity of the financial statements and for providing a clear audit trail.

2. The second part of the document outlines the various methods used to collect and analyze data. It describes how different types of information are gathered and how they are processed to identify trends and anomalies.

3. The third part of the document focuses on the results of the analysis. It presents the findings in a clear and concise manner, highlighting the key areas of concern and the potential implications for the organization.

4. The fourth part of the document provides recommendations for improving the system. It offers practical advice on how to address the identified issues and how to prevent similar problems from occurring in the future.

5. The fifth part of the document concludes the report. It summarizes the main points and reiterates the importance of ongoing monitoring and evaluation to ensure the continued effectiveness of the system.

6. The sixth part of the document provides a detailed breakdown of the data. It includes tables and charts that illustrate the various components of the system and how they interact with each other.

7. The seventh part of the document discusses the challenges faced during the process. It identifies the obstacles that were encountered and the strategies used to overcome them.

8. The eighth part of the document provides a final summary of the findings. It highlights the key takeaways and offers a final assessment of the overall performance of the system.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON

Contract: 98011

Lab Code: STLVT

Case No.: 98011

SAS No.:

SDG No.: 89326

Instrument ID: M

Calibration Date: 08/26/02

Time: 0150

Lab File ID: MYF02BV

Init. Calib. Date(s): 08/23/02

08/23/02

Heated Purge: (Y/N) N

Init. Calib. Times: 0113

0308

GC Column: CAP

ID: 0.53 (mm)

COMPOUND	RRF	RRF2	MIN RRF	%D	MAX %D
1,4-Dichlorobenzene	0.903	0.868	0.01	3.9	30.0
1,2-Dichlorobenzene	0.782	0.755	0.01	3.4	30.0
n-Butylbenzene	1.342	1.324	0.01	1.3	30.0
Hexachloroethane	0.388	0.394	0.01	1.5	30.0
1,2-Dibromo-3-Chloropropane	0.164	0.157	0.01	4.3	30.0
Nitrobenzene	0.016	0.014	0.01	12.5	30.0
1,2,4-Trichlorobenzene	0.579	0.538	0.01	7.1	30.0
Hexachlorobutadiene	0.411	0.378	0.01	8.0	30.0
Naphthalene	0.936	0.891	0.01	4.8	30.0
1,2,3-Trichlorobenzene	0.512	0.486	0.01	5.1	30.0
1,2-Dichloroethane-d4	0.368	0.324	0.01	12.0	30.0
Bromofluorobenzene	0.879	0.864	0.01	1.7	30.0
1,2-Dichlorobenzene-d4	0.527	0.516	0.01	2.1	30.0
Toluene-d8	0.961	0.869	0.01	9.6	30.0





Date	Description	Debit	Credit	Balance	Total	Total	Total
1912	Jan 1						
1913	Jan 1						
1914	Jan 1						
1915	Jan 1						

Total 1912 _____
 Total 1913 _____
 Total 1914 _____
 Total 1915 _____
 Total _____

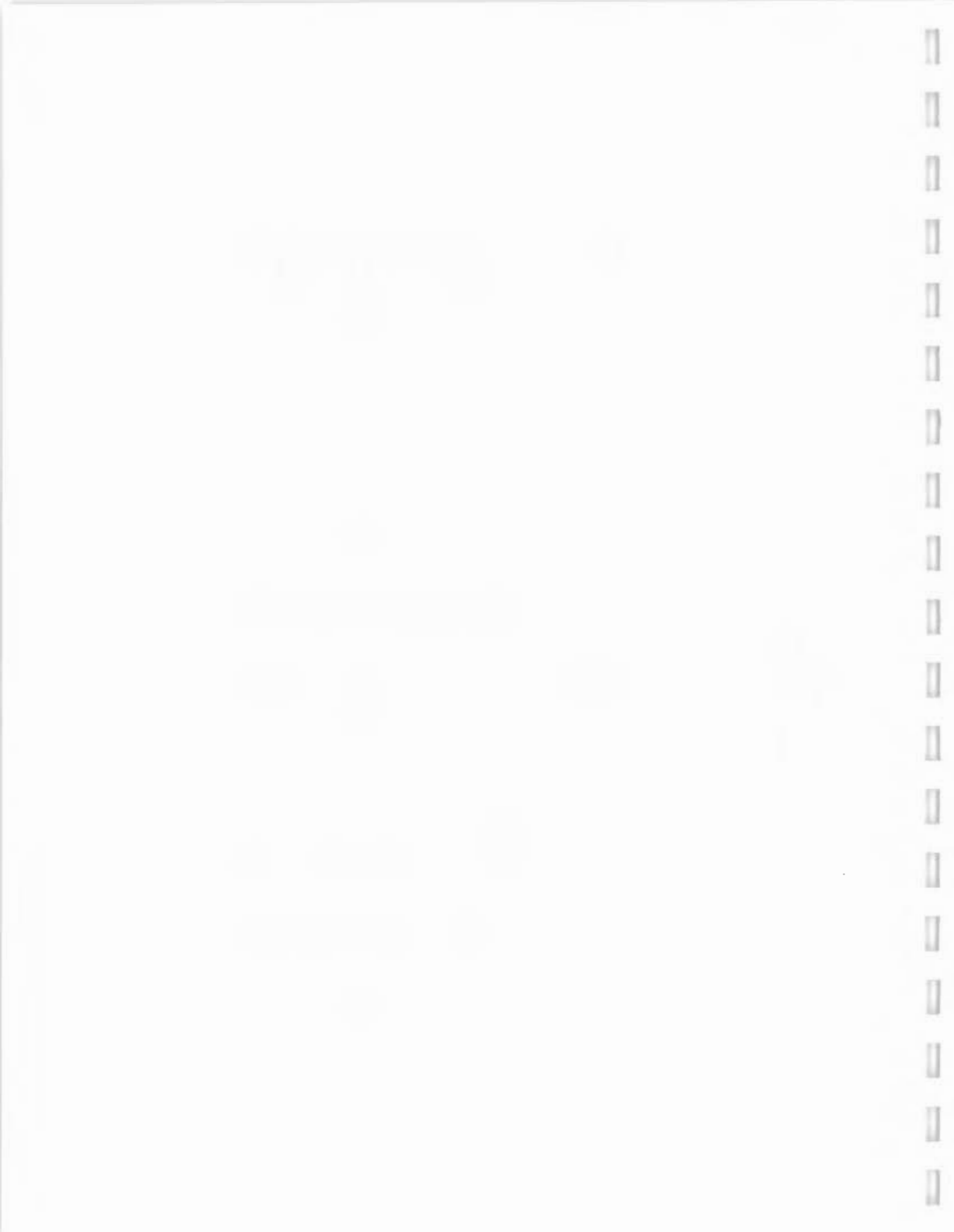
APPENDIX C

HISTORICAL GROUNDWATER ANALYTICAL DATA



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

WATER	UNIT	MAXIMUM	DETECTION	CLASS	NYSDC	NUMBER	ABOVE	STANDARD	DETECTS	OF		ANALYSES	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		
										FREQUENCY	OF		BN-S	FH-D	FH-S	MW-12A	MW-27	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN		
	UG/L	0	0%	10	0	0	0	0	0	52	0	52	0	0	0	0	0	0	0	0	0	0	0
	UG/L	268000	98%		0	51	52		52	52	268000	83200	268000	268000	83200	268000	83200	268000	83200	268000	83200	268000	
	UG/L	5.6	15%	50	0	8	52		52	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	
	UG/L	8.4	4%		0	2	52		52	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	
	UG/L	6.1	10%	200	0	5	52		52	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	
	UG/L	0	0%	100	0	0	52		52	52	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	
	UG/L	11600	67%	300	14	35	52		52	52	155 J	155 J	155 J	155 J	155 J	155 J	155 J	155 J	155 J	155 J	155 J	155 J	
	UG/L	5.4	10%	25	0	5	52		52	52	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
	UG/L	47100	98%		0	51	52		52	52	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	38400	
	UG/L	3140	83%	300	7	43	52		52	52	528	528	528	528	528	528	528	528	528	528	528	528	
	UG/L	0.2	12%	2	0	6	52		52	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	
	UG/L	5.6	12%		0	6	52		52	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	
	UG/L	18400	98%		0	51	52		52	52	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	6100	
	UG/L	2.6	2%	10	0	1	52		52	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	
	UG/L	0	0%	50	0	0	52		52	52	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	
	UG/L	142000	98%	20000	27	51	52		52	52	74000	74000	74000	74000	74000	74000	74000	74000	74000	74000	74000	74000	
	UG/L	10.8	19%		0	10	52		52	52	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	
	UG/L	4.5	6%		0	3	52		52	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	
	UG/L	134	81%	300	0	42	52		52	52	6.5 J	6.5 J	6.5 J	6.5 J	6.5 J	6.5 J	6.5 J	6.5 J	6.5 J	6.5 J	6.5 J	6.5 J	



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

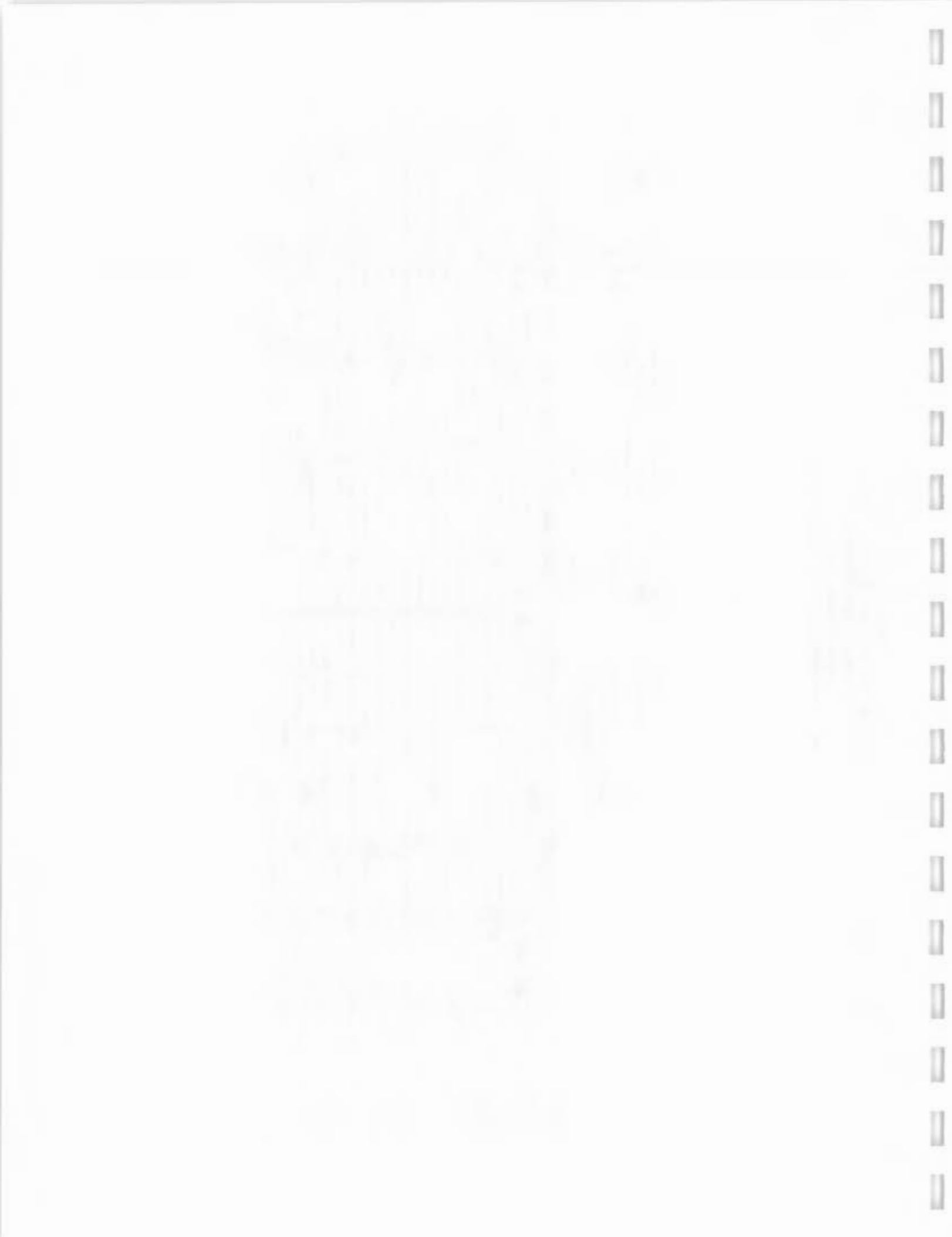
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

FACILITY LOCATION ID MATRIX SAMPLE ID DEPTH TO TOP OF SAMPLE DEPTH TO BOTTOM OF SAMPLE SAMPLE DATE	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LAND		
	MW-28 ARD2044	MW-29 ARD2056	MW-30 ARD2028	MW-31 ARD2003	MW-32 ARD2029	9	11	9.5	9.8	10	10	9.8	9.8	10	10
FREQUENCY OF DETECTION	NYSDC CLASS	NUMBER ABOVE STD.	NUMBER OF ANALYSES	NUMBER OF ANALYSES	NUMBER OF ANALYSES	NUMBER OF ANALYSES	NUMBER OF ANALYSES	NUMBER OF ANALYSES	NUMBER OF ANALYSES	NUMBER OF ANALYSES	NUMBER OF ANALYSES	NUMBER OF ANALYSES	NUMBER OF ANALYSES	NUMBER OF ANALYSES	NUMBER OF ANALYSES
LE ORGANICS															
chloroethane	1	2%	5	0	1	55	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tetrachloroethane	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
chloroethane	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
oroethane	9	2%	5	1	1	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
oroethane	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
oroethane	4	4%	5	0	2	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
oroethane (total)	1100	27%	5	14	15	55	19	110	10 U	10 U	10 U	10 U	10 U	10 U	10 U
proporpane	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	2	4%	0	0	2	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	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
chloromethane	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
m	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
isulfide	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tetrachloride	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
nzene	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
promomethane	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
nane	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
m	74	2%	7	1	1	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
chloropropene	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
azene	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
omide	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
tyl ketone	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
loride	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
hyl ketone	0	0%	50	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
butyl ketone	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
e chloride	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
oroethene	0	0%	0	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
enes	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
β-Dichloropropene	0	0%	5	0	0	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ethene	9100	27%	5	10	15	55	21	3 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U
oride	180	5%	2	2	3	55	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
	2600	65%	0	34	52	52	21.1 J	173 J	106 J	38.4 J	826				
	3	2%	0	1	2	52	2.7 U	2.7 U	2.7 U	4.9 U	2.7				
	7	23%	25	0	12	52	1.9 U	1.9 U	1.9 U	3.7 U	1.9				
	176	98%	1000	0	51	52	43.8 J	67.9 J	46.8 J	42.6 J	45.4				
	0.66	10%	0	5	52	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

E D	ROUND	UNIT	MAXIMUM	DETECTION	FREQ	NYSDC	NUMBER	ABOVE	STANDARD	CLASS	GA	NUMBER	OF	DETECTS	ANALYSES	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LAND			
																STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD	STANDARD
		UG/L	0	0%	0	10	0	0	0.3 U	N	0.3 U	0	0	0	0.3 U	0.3 U	0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ	0.7 UJ
		UG/L	268000	98%	0	51	0	51	112000	N	164000	52	52	112000	112000	91500 J	91500 J	91500 J	91500 J	91500 J	91500 J	91500 J	91500 J	91500 J	91500 J	91500 J	91500 J
		UG/L	5.6	15%	0	50	0	8	0.9 U	N	0.9 U	52	52	0.9 U	0.9 U	0.9 UJ	0.9 UJ	0.9 UJ	0.9 UJ	0.9 UJ	0.9 UJ	0.9 UJ	0.9 UJ	0.9 UJ	0.9 UJ	0.9 UJ	0.9 UJ
		UG/L	8.4	4%	0	2	0	2	2.5 U	N	2.5 U	52	52	2.5 U	2.5 U	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
		UG/L	6.1	10%	0	200	0	5	1.7 U	N	1.7 U	52	52	1.7 U	1.7 U	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
		UG/L	0	0%	0	100	0	0	5 U	N	5 U	52	52	5 U	5 U	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
		UG/L	11600	67%	14	300	14	35	28.8 J	N	442 J	52	52	28.8 J	442 J	14.7 UJ	14.7 UJ	14.7 UJ	14.7 UJ	14.7 UJ	14.7 UJ	14.7 UJ	14.7 UJ	14.7 UJ	14.7 UJ	14.7 UJ	14.7 UJ
		UG/L	5.4	10%	0	25	0	5	1 U	N	1 U	52	52	1 U	1 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ
		UG/L	47100	98%	0	51	0	51	12100	N	18900	52	52	12100	15600	11600 J	11600 J	11600 J	11600 J	11600 J	11600 J	11600 J	11600 J	11600 J	11600 J	11600 J	11600 J
		UG/L	3140	83%	7	300	7	43	1.3 J	N	2.6 J	52	52	1.3 J	1.4 J	17.1 J	17.1 J	17.1 J	17.1 J	17.1 J	17.1 J	17.1 J	17.1 J	17.1 J	17.1 J	17.1 J	17.1 J
		UG/L	0.2	12%	2	2	0	6	0.1 U	N	0.1 U	52	52	0.1 U	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
		UG/L	5.6	12%	0	6	0	6	1.7 U	N	1.7 U	52	52	1.7 U	1.7 U	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ	1.7 UJ
		UG/L	19400	98%	0	51	0	51	1220 J	N	1680 J	52	52	1220 J	2760 J	1860 J	1860 J	1860 J	1860 J	1860 J	1860 J	1860 J	1860 J	1860 J	1860 J	1860 J	1860 J
		UG/L	2.6	2%	0	10	0	1	2.4 U	N	2.4 U	52	52	2.4 U	2.4 U	2.8 UJ	2.8 UJ	2.8 UJ	2.8 UJ	2.8 UJ	2.8 UJ	2.8 UJ	2.8 UJ	2.8 UJ	2.8 UJ	2.8 UJ	2.8 UJ
		UG/L	0	0%	0	50	0	0	1.6 U	N	1.6 U	52	52	1.6 U	1.6 U	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ	1.6 UJ
		UG/L	142000	98%	27	20000	27	51	8770	N	22900	52	52	8770	16300	15800 J	15800 J	15800 J	15800 J	15800 J	15800 J	15800 J	15800 J	15800 J	15800 J	15800 J	15800 J
		UG/L	10.8	19%	0	10	0	10	4.4 J	N	2.9 U	52	52	4.4 J	2.7 U	2.9 UJ	2.9 UJ	2.9 UJ	2.9 UJ	2.9 UJ	2.9 UJ	2.9 UJ	2.9 UJ	2.9 UJ	2.9 UJ	2.9 UJ	2.9 UJ
		UG/L	4.5	6%	0	3	0	3	1.5 U	N	1.5 U	52	52	1.5 U	1.5 U	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
		UG/L	134	81%	0	300	0	42	2.1 J	N	2.5 J	52	52	2.1 J	3 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J	2 J



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

WELL ID	CONCENTRATION	UNIT	MAXIMUM	DETECTION	FREQ. OF DETECTION	NYSDEC CLASS	NUMBER ABOVE STD.	STANDARD	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	FACILITY LOCATION ID	ASH LANDFILL MW-33		ASH LANDFILL MW-34		ASH LANDFILL MW-35D		ASH LANDFILL MW-36		
												GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	
ANALYTE	CONCENTRATION	UNIT	MAXIMUM	DETECTION	FREQ. OF DETECTION	CLASS	NUMBER ABOVE STD.	STANDARD	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	LOCATION ID	ANALYSES	ANALYSES	ANALYSES	ANALYSES	ANALYSES	ANALYSES	ANALYSES	ANALYSES	
Lead	0	UG/L	0	0%	0	10	0	10	0	0	ARD2020	0	0	0	0	0	0	0	0	0
Mercury	268000	UG/L	268000	98%	51	0	0	106000	0	0	ARD2020	52	52	52	52	52	52	52	52	52
Uranium	5.6	UG/L	5.6	15%	8	50	0	0.9 U	0	0	ARD2020	2	2	2	2	2	2	2	2	2
Vanadium	8.4	UG/L	8.4	4%	2	0	0	2 U	0	0	ARD2020	52	52	52	52	52	52	52	52	52
Chromium	5.1	UG/L	5.1	10%	5	200	0	1.7 U	0	0	ARD2020	52	52	52	52	52	52	52	52	52
Chloride	0	UG/L	0	0%	0	100	0	5 U	0	0	ARD2020	52	52	52	52	52	52	52	52	52
Iron	11600	UG/L	11600	67%	35	300	14	81.7 J	142	142	ARD2020	52	52	52	52	52	52	52	52	52
Aluminum	5.4	UG/L	5.4	10%	5	25	0	1 U	0	0	ARD2020	52	52	52	52	52	52	52	52	52
Silicon	47100	UG/L	47100	98%	51	0	0	11200	0	0	ARD2020	52	52	52	52	52	52	52	52	52
Nitrate	3140	UG/L	3140	83%	43	300	7	6.3 J	54.4	54.4	ARD2020	52	52	52	52	52	52	52	52	52
Ammonia	0.2	UG/L	0.2	12%	6	2	0	0.1 U	0	0	ARD2020	52	52	52	52	52	52	52	52	52
Cyanide	5.6	UG/L	5.6	12%	6	0	0	1.7 U	0	0	ARD2020	52	52	52	52	52	52	52	52	52
Chlorine	18400	UG/L	18400	98%	51	0	0	1710 J	2450 J	2450 J	ARD2020	52	52	52	52	52	52	52	52	52
Fluoride	2.6	UG/L	2.6	2%	1	10	0	2.4 U	2.4 U	2.4 U	ARD2020	52	52	52	52	52	52	52	52	52
Phosphate	0	UG/L	0	0%	0	50	0	1.6 U	1.6 U	1.6 U	ARD2020	52	52	52	52	52	52	52	52	52
Barium	142000	UG/L	142000	98%	51	20000	27	16000	63100	63100	ARD2020	52	52	52	52	52	52	52	52	52
Cadmium	10.8	UG/L	10.8	19%	10	0	0	2.7 U	2.7 U	2.7 U	ARD2020	52	52	52	52	52	52	52	52	52
Chromium	4.5	UG/L	4.5	6%	3	0	0	1.5 U	1.5 U	1.5 U	ARD2020	52	52	52	52	52	52	52	52	52
Copper	134	UG/L	134	81%	42	300	0	1.6 U	2.5 J	2.5 J	ARD2020	52	52	52	52	52	52	52	52	52



Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024																																																																																																																																								
Population	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000

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

SAMPLE ID	ELEMENT	UNIT	MAXIMUM	DETECTION	FREQUENCY OF DETECTION	CLASSIFICATION	NYSDEC STD.	NUMBER ABOVE STD.	NUMBER OF ANALYSES	FILL		ASH LANDFILL MW-37		ASH LANDFILL MW-38D		ASH LANDFILL MW-39		ASH LANDFILL MW-40		
										ATER	ARD2017	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	
01	Lead	UG/L	0	0%	0	10	0	0	0	52 U	N	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
02	Mercury	UG/L	268000	98%	0	51	0	51	52	52 U	97600	91200	92300	92300	92300	92300	92300	92300	92300	92300
03	Cadmium	UG/L	5.6	15%	0	8	0	8	52 J	52 J	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
04	Chromium	UG/L	8.4	4%	0	2	0	2	52 U	52 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
05	Vanadium	UG/L	6.1	10%	0	5	0	5	52 U	52 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
06	Chloride	UG/L	0	0%	0	0	0	0	52 U	52 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
07	Fluoride	UG/L	11600	67%	14	35	14	35	52 U	52 U	61.4 J	172	14.7 U	14.7 U	14.7 U	14.7 U	14.7 U	14.7 U	14.7 U	14.7 U
08	Iron	UG/L	5.4	10%	0	5	0	5	52 U	52 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
09	Lead	UG/L	47100	98%	0	51	0	51	52	52 U	13400	16500	11800	11800	11800	11800	11800	11800	11800	11800
10	Mercury	UG/L	3140	83%	7	43	7	43	52	52 U	12 J	143	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U
11	Cadmium	UG/L	0.2	12%	0	6	0	6	52 UJ	52 UJ	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
12	Vanadium	UG/L	5.6	12%	0	6	0	6	52 U	52 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
13	Chromium	UG/L	18400	98%	0	51	0	51	52 J	52 J	1120 J	7100	2430 J	2430 J	2430 J	2430 J	2430 J	2430 J	2430 J	2430 J
14	Vanadium	UG/L	2.6	2%	10	0	10	0	52 U	52 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
15	Iron	UG/L	0	0%	50	0	0	0	52 U	52 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
16	Lead	UG/L	142000	98%	27	51	27	51	52	52 U	9360	5580	8040	8040	8040	8040	8040	8040	8040	8040
17	Mercury	UG/L	10.8	19%	0	10	0	10	52 U	52 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
18	Vanadium	UG/L	4.5	6%	0	3	0	3	52 U	52 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
19	Chromium	UG/L	134	81%	0	42	0	42	52 J	52 J	7.7 J	18.6 J	9.5 J	9.5 J	9.5 J	9.5 J	9.5 J	9.5 J	9.5 J	9.5 J



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

SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

SDE	WELL ID	UNIT	MAXIMUM	DETECTION	FREQ. OF	NY DEC	NUMBER	NUMBER	NUMBER	OF	DETECTS	ASH REMEDIAL DESIGN			ASH REMEDIAL DESIGN			ASH REMEDIAL DESIGN			
												CLASS	GA	STD.	ABOVE	STD.	ANALYSES	N	N	N	N
TILE ORGANICS																					
	Trichloroethane	UG/L	1	2%	5	0	1	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1-Trichloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2-Trichloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2-Tetrachloroethane	UG/L	9	2%	5	1	1	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane	UG/L	4	4%	5	0	2	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane (total)	UG/L	1100	27%	5	14	15	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1-Dichloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,2-Dichloroethane	UG/L	2	4%	5	0	2	55	10 UJ	10 UJ	10 UJ	55 UJ	10 UJ	10 UJ	55 UJ						
	1,1,1-Trichloroethane	UG/L	0	0%	0.7	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2-Trichloroethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2-Tetrachloroethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane (total)	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1-Dibromomethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,2-Dibromomethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1-Trichloroethane	UG/L	74	2%	7	1	1	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2-Trichloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane (total)	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1-Dichloroethane	UG/L	0	0%	50	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,2-Dichloroethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1-Trichloroethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2-Trichloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane (total)	UG/L	0	0%	50	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1-Dibromomethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,2-Dibromomethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1-Trichloroethane	UG/L	74	2%	7	1	1	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2-Trichloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane (total)	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1-Dichloroethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,2-Dichloroethane	UG/L	0	0%	50	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1-Trichloroethane	UG/L	0	0%	0	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2-Trichloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1,2,2-Pentachloroethane (total)	UG/L	0	0%	5	0	0	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1-Dichloroethane	UG/L	9100	27%	5	10	15	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,2-Dichloroethane	UG/L	180	5%	2	2	3	55	10 UJ	10 U	10 U	55 U	10 U	10 U	55 U						
	1,1,1-Trichloroethane	UG/L	2600	65%	0	34	52	52	16.3 UJ	14.3 U	14.3 U	40.2 J	40.2 J	14.3 U							
	1,1,2-Trichloroethane	UG/L	3	2%	0	1	52	52	4.9 UJ	3 J	3 J	2.7 U	2.7 U	2.7 U							
	1,1,1,2-Tetrachloroethane	UG/L	7	23%	25	0	12	52	3.7 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U							
	1,1,2,2-Tetrachloroethane	UG/L	176	98%	1000	0	51	52	66.3 J	79.1 J	79.1 J	48.3 J	48.3 J	52.9 J							
	1,1,1,2,2-Pentachloroethane	UG/L	0.66	10%	0	5	52	52	0.2 UJ	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U							



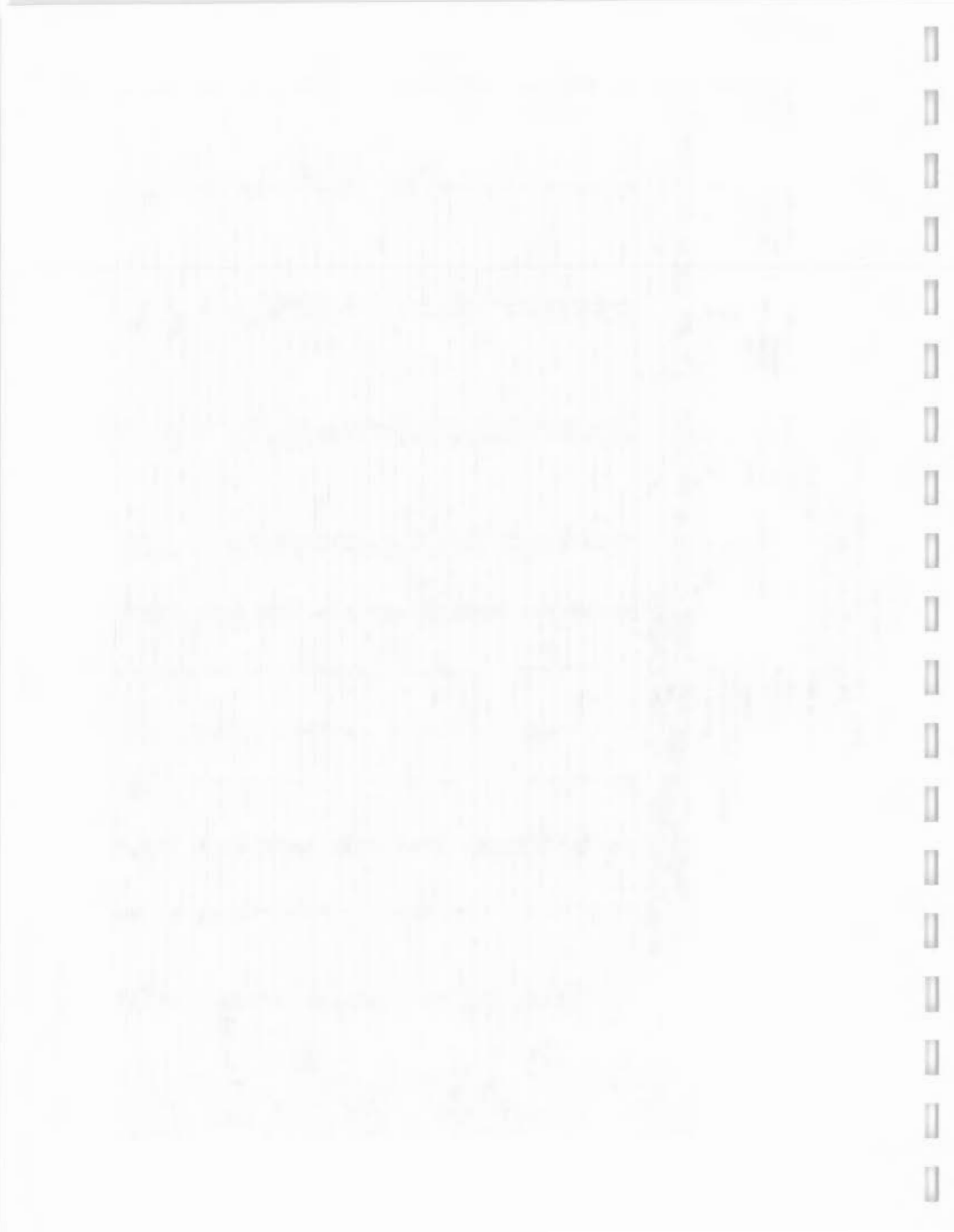
APPENDIX C1
GROUND WATER CHEMICAL RESULTS - 4Q 1999
GROUNDWATER MONITORING -
ASH REMEDIAL DESIGN
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

DDE FILE ROUND	METER	UNIT	MAXIMUM	DETECTION	FREQUENCY OF CLASS	NYSDC STD.	NUMBER ABOVE	STANDARD	FACILITY LOCATION/ID	NUMBER OF		ANALYSES	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		
										DETECTS	OF		ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	
	um	UG/L	0	0%	0	10	0	0.7 UJ	ASH LANDFILL MW-41D	0	52	0	0.3 U	ASH LANDFILL MW-44A	0	52	0	0.3 U	ASH LANDFILL MW-44A	0	52
	um	UG/L	268000	98%	0	51	0	86700 J	GROUND WATER ARD2001	52	62600	112000	112000	GROUND WATER ARD2049	112000	112000	112000	236000	GROUND WATER ARD2050	236000	236000
	um	UG/L	5.6	15%	0	8	0	0.9 UJ	GROUND WATER ARD2001	52	0.9 U	0.9 U	0.9 U	GROUND WATER ARD2049	0.9 U	0.9 U	0.9 U	2.5 U	GROUND WATER ARD2050	2.5 U	2.5 U
	um	UG/L	8.4	4%	0	2	0	2.5 UJ	GROUND WATER ARD2001	52	2.5 U	2.5 U	2.5 U	GROUND WATER ARD2049	2.5 U	2.5 U	2.5 U	2.5 U	GROUND WATER ARD2050	2.5 U	2.5 U
	um	UG/L	6.1	10%	0	200	0	1.9 UJ	GROUND WATER ARD2001	52	1.9 U	1.7 U	1.7 U	GROUND WATER ARD2049	1.7 U	2 J	2 J	1.7 U	GROUND WATER ARD2050	1.7 U	1.7 U
	um	UG/L	0	0%	0	100	0	5 UJ	GROUND WATER ARD2001	52	5 U	5 U	5 U	GROUND WATER ARD2049	5 U	5 U	5 U	5 U	GROUND WATER ARD2050	5 U	5 U
	um	UG/L	11600	67%	0	300	14	14.7 UJ	GROUND WATER ARD2001	52	58.6 J	58.6 J	57.2 J	GROUND WATER ARD2049	57.2 J	57.2 J	82.6 J	82.6 J	GROUND WATER ARD2050	82.6 J	82.6 J
	um	UG/L	5.4	10%	0	25	0	1.2 UJ	GROUND WATER ARD2001	52	1 U	1 U	1 U	GROUND WATER ARD2049	1 U	1 U	1 U	1 U	GROUND WATER ARD2050	1 U	1 U
	um	UG/L	47100	98%	0	51	0	31100 J	GROUND WATER ARD2001	52	28600	9700	9700	GROUND WATER ARD2049	9700	9700	43400	43400	GROUND WATER ARD2050	43400	43400
	um	UG/L	3140	83%	0	300	7	252 J	GROUND WATER ARD2001	52	88	88	88	GROUND WATER ARD2049	88	88	1250	1250	GROUND WATER ARD2050	1250	1250
	um	UG/L	0.2	12%	0	2	0	0.1 UJ	GROUND WATER ARD2001	52	0.1 U	0.1 U	0.1 U	GROUND WATER ARD2049	0.1 U	0.1 U	0.1 U	0.1 U	GROUND WATER ARD2050	0.1 U	0.1 U
	um	UG/L	5.6	12%	0	6	0	2.6 UJ	GROUND WATER ARD2001	52	1.7 U	1.7 U	1.7 U	GROUND WATER ARD2049	1.7 U	1.7 U	1.7 U	1.7 U	GROUND WATER ARD2050	1.7 U	1.7 U
	um	UG/L	18400	98%	0	51	0	3520 J	GROUND WATER ARD2001	52	3230 J	3230 J	3230 J	GROUND WATER ARD2049	3230 J	3230 J	18400	18400	GROUND WATER ARD2050	18400	18400
	um	UG/L	2.6	2%	0	10	0	2.8 UJ	GROUND WATER ARD2001	52	2.4 U	2.4 U	2.4 U	GROUND WATER ARD2049	2.4 U	2.4 U	2.4 U	2.4 U	GROUND WATER ARD2050	2.4 U	2.4 U
	um	UG/L	0	0%	0	50	0	1.6 UJ	GROUND WATER ARD2001	52	1.6 U	1.6 U	1.6 U	GROUND WATER ARD2049	1.6 U	1.6 U	1.6 U	1.6 U	GROUND WATER ARD2050	1.6 U	1.6 U
	um	UG/L	142000	98%	27	20000	51	35500 J	GROUND WATER ARD2001	52	14300	13200	13200	GROUND WATER ARD2049	13200	13200	78100	78100	GROUND WATER ARD2050	78100	78100
	um	UG/L	10.8	19%	0	10	0	2.9 UJ	GROUND WATER ARD2001	52	2.9 U	2.9 U	2.9 U	GROUND WATER ARD2049	2.9 U	2.9 U	4.6 J	4.6 J	GROUND WATER ARD2050	4.6 J	4.6 J
	um	UG/L	4.5	6%	0	3	0	3.2 UJ	GROUND WATER ARD2001	52	1.5 U	1.5 U	1.5 U	GROUND WATER ARD2049	1.5 U	1.5 U	1.5 U	1.5 U	GROUND WATER ARD2050	1.5 U	1.5 U
	um	UG/L	134	81%	0	300	0	4.8 J	GROUND WATER ARD2001	52	2.5 J	2.5 J	2.5 J	GROUND WATER ARD2049	2.5 J	2.5 J	5.3 J	5.3 J	GROUND WATER ARD2050	5.3 J	5.3 J





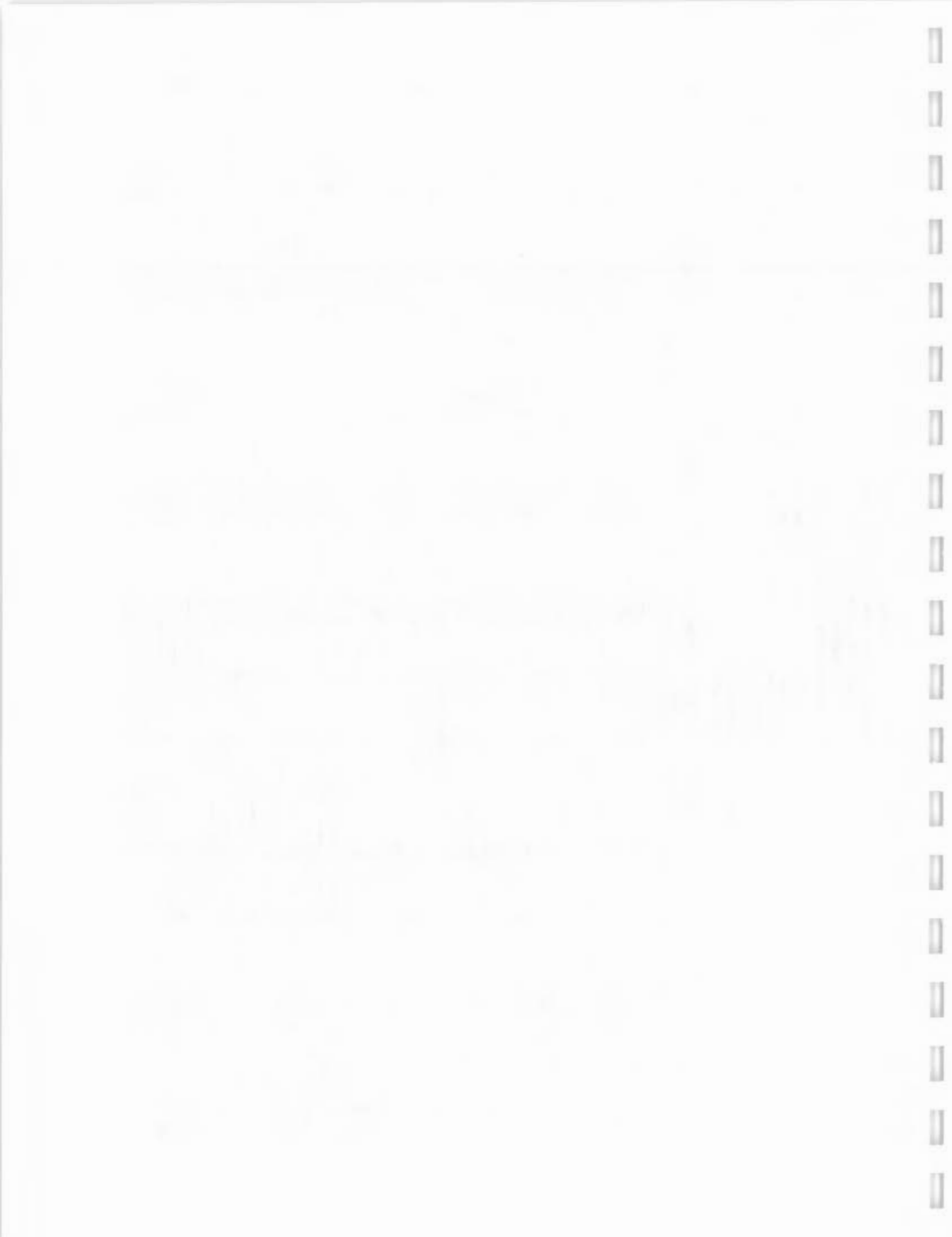




APPENDIX C1
GROUND WATER CHEMICAL RESULTS - 4Q 1999
GROUNDWATER MONITORING -
ASH REMEDIAL DESIGN
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

ROW NUMBER	UNIT	MAXIMUM	DETECTION	FREQ. OF	NYSDEC	NUMBER	CLASS	GA	NUMBER	STANDARD	ABOVE	NUMBER	OF	DETECTS	ANALYSES	ASH REMEDIAL DESIGN		ASH REMEDIAL DESIGN		ASH REMEDIAL DESIGN		
																N	N	N	N	N	N	
	UG/L	0	0%	0	10	0			0	0.7 U		52	0.3 U		0.3 U							
	UG/L	268000	98%	51		0			51	49700		52	85400		5920							165000
	UG/L	5.6	15%	8	50	0			8	0.9 U		52	0.9 U		0.9 U							0.9 U
	UG/L	8.4	4%	2		0			2	2.5 U		52	2 U		2 U							2.5 U
	UG/L	6.1	10%	5	200	0			5	1.9 U		52	1.7 U		1.9 J							1.7 U
	UG/L	0	0%	0	100	0			0	5 U		52	5 U		5 U							5 U
	UG/L	11600	67%	35	300	14			35	348 J		52	56.2 J		2310							25.4 U
	UG/L	5.4	10%	5	25	0			5	1.2 U		52	1 U		2.6 J							1 U
	UG/L	47100	98%	51		0			51	22400		52	13500		2180 J							20100
	UG/L	3140	83%	7	300	7			43	87.4		52	42.5		39.3							0.4 U
	UG/L	0.2	12%	6	2	0			6	0.1 U		52	0.1 U		0.1 U							0.1 U
	UG/L	5.6	12%	6		0			6	2.6 U		52	1.7 U		2.7 J							1.7 U
	UG/L	18400	98%	51		0			51	2270 J		52	1350 J		1570 J							1690 J
	UG/L	2.6	2%	1	10	0			1	2.8 U		52	2.6 J		2.4 U							2.4 U
	UG/L	0	0%	0	50	0			0	1.6 U		52	1.6 U		1.6 U							1.6 U
	UG/L	142000	98%	27	20000	27			51	20900		52	26300		102000							24100
	UG/L	10.8	19%	10		0			10	2.9 U		52	2.7 U		2.7 U							2.9 U
	UG/L	4.5	6%	3		0			3	3.2 U		52	1.5 U		3.3 J							1.5 U
	UG/L	134	81%	42	300	0			42	1.8 U		52	2.9 J		6.9 J							2.5 J





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

WATER	UNIT	MAXIMUM	DETECTION	FREQUENCY OF	NYSDEC CLASSIFICATION	NUMBER ABOVE STD.	NUMBER OF ANALYSES	FILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		
								NUMBER	DETECTS	AL DESIGN	ASH REMEDIAL DESIGN	NUMBER	DETECTS	NUMBER	DETECTS	NUMBER	DETECTS	NUMBER
0	UG/L	0	0%	0	10	0	0	52 U	N	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
1	UG/L	268000	98%	0	51	0	51	52	2440 J	104000	104000	3130 J	3130 J	3130 J	3130 J	3130 J	3130 J	4110 J
1	UG/L	5.6	15%	0	50	0	8	52 U	0.9 U	0.9 U	0.9 U	1.9 J	1.9 J	2.5 U	2.5 U	2.5 U	2.5 U	4.5 J
1	UG/L	8.4	4%	0	200	0	2	52 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	2.2 J
1	UG/L	6.1	10%	0	100	0	5	52 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.2 J
1	UG/L	0	0%	0	300	14	35	52 J	1050	149 J	149 J	853 J	853 J	3200 J	3200 J	3200 J	3200 J	5 U
1	UG/L	11600	67%	0	25	0	5	52 U	1.5 J	1.5 J	1.5 J	1.5 J	1.5 J	1.5 J	1.5 J	1.5 J	1.5 J	1.9 J
1	UG/L	5.4	10%	0	300	0	5	52 U	781 J	12500	12500	842 J	842 J	1350 J	1350 J	1350 J	1350 J	1.9 J
1	UG/L	47100	98%	0	300	0	51	52	16.9	12.3 J	12.3 J	3.2 J	3.2 J	35.3	35.3	35.3	35.3	35.3
1	UG/L	3140	83%	7	2	0	43	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
1	UG/L	0.2	12%	0	18400	0	6	52 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	3.4 J
1	UG/L	5.6	12%	0	10	0	6	52 U	1120 J	1630 J	1630 J	1150 J	1150 J	1740 J	1740 J	1740 J	1740 J	3.4 J
1	UG/L	18400	98%	0	50	0	51	52 J	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
1	UG/L	2.6	2%	0	50	0	1	52 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
1	UG/L	0	0%	0	20000	27	0	52	118000	18800	18800	133000	133000	142000	142000	142000	142000	1.6 U
1	UG/L	142000	98%	0	10	0	51	52	2.7 J	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
1	UG/L	10.8	19%	0	3	0	10	52 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	UG/L	4.5	6%	0	300	0	3	52 U	15.7 J	3.7 J	3.7 J	7.1 J	7.1 J	8.9 J	8.9 J	8.9 J	8.9 J	4.1 J
1	UG/L	134	81%	0	42	0	42	52 J	15.7 J	3.7 J	3.7 J	7.1 J	7.1 J	8.9 J	8.9 J	8.9 J	8.9 J	4.1 J



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

CODE	FACILITY LOCATION ID MATRIX SAMPLE ID	FILL ATER	ASH LANDFILL MW-60 GROUND WATER ARD2004	ASH LANDFILL PT-10 GROUND WATER ARD2002	ASH LANDFILL PT-11 GROUND WATER ARD2006	ASH LANDFILL PT-15 GROUND WATER ARD2031	FREQ. OF DETECTION	NYSDC CLASS	STANDARD	NUMBER ABOVE	NUMBER OF DETECTS	ANALYSES	UNIT		DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE DATE	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN	ASH REMEDIAL DESIGN
													MAXIMUM	STANDARD						
ATILE ORGANICS																				
1	-Trichloroethane	UG/L	2%	5	0	1	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	2,2-Tetrachloroethane	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	-Trichloroethane	UG/L	0%	0	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
9	Dichloroethane	UG/L	2%	5	1	1	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	Dichloroethene	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4	Dichloroethane	UG/L	4%	5	0	2	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1100	Dichloroethene (total)	UG/L	27%	5	14	15	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	Dichloropropane	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2	ene	UG/L	4%	0	0	2	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	ene	UG/L	0%	0.7	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	ochloromethane	UG/L	0%	0	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	oform	UG/L	0%	0	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	on disulfide	UG/L	0%	0	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	on tetrachloride	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	robenzene	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	rodibromomethane	UG/L	0%	0	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	roethane	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
74	roform	UG/L	2%	7	1	1	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	-3-Dichloropropene	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	benzene	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	yl bromide	UG/L	0%	0	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	yl butyl ketone	UG/L	0%	0	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	yl chloride	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	yl ethyl ketone	UG/L	0%	50	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	yl isobutyl ketone	UG/L	0%	0	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	ylene chloride	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	ene	UG/L	0%	0	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	ichloroethane	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	ene	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	Xylenes	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
0	s-1,3-Dichloropropene	UG/L	0%	5	0	0	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
9100	aroethene	UG/L	27%	5	10	15	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
180	chloride	UG/L	5%	2	2	3	55 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
ALS																				
2600	inum	UG/L	65%	0	34	34	52 J	16.3 U	16.3 UJ	340	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600
3	ony	UG/L	2%	0	1	1	52 U	4.9 U	4.9 UJ	2.7 U	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600
7	nic	UG/L	23%	25	0	12	52 U	3.7 U	4.7 UJ	1.9 U	2600	2600	2600	2600	2600	2600	2600	2600	2600	2600
176	mm	UG/L	98%	1000	0	51	52 J	46.6 J	176 J	86.6 J	119 J	119 J	119 J	119 J	119 J	119 J	119 J	119 J	119 J	119 J
0.66	ilium	UG/L	10%	0	5	5	52 U	0.66 J	0.2 UJ	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







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

CODE	ELEMENT	UNIT	MAXIMUM	FREQUENCY OF DETECTION	NYSDC CLASS	NUMBER ABOVE STD.	NUMBER OF DETECTS	FACILITY LOCATION ID	ASH LANDFILL PT-16		ASH LANDFILL PT-17		ASH LANDFILL PT-18		ASHT-19
									ANALYSES	N	ANALYSES	N	ANALYSES	N	
	Lead	UG/L	0	0%	10	0	0	PT-16 GROUND WATER ARD2014	0.7 U	PT-17 GROUND WATER ARD2027	0.3 UJ	PT-18 GROUND WATER ARD2048	0.3 U	ASHT-19 GROUND WATER ARD2048	2
	Mercury	UG/L	268000	98%		51	8	PT-16 GROUND WATER ARD2014	95500	PT-17 GROUND WATER ARD2027	105000 J	PT-18 GROUND WATER ARD2048	224000	ASHT-19 GROUND WATER ARD2048	2
	Chromium	UG/L	5.6	15%	50	0	2	PT-16 GROUND WATER ARD2014	0.9 U	PT-17 GROUND WATER ARD2027	0.9 UJ	PT-18 GROUND WATER ARD2048	0.93 J	ASHT-19 GROUND WATER ARD2048	2
	Vanadium	UG/L	8.4	4%		2	5	PT-16 GROUND WATER ARD2014	2.5 U	PT-17 GROUND WATER ARD2027	2 UJ	PT-18 GROUND WATER ARD2048	2.5 U	ASHT-19 GROUND WATER ARD2048	2
	Chloride	UG/L	6.1	10%	200	0	5	PT-16 GROUND WATER ARD2014	1.9 U	PT-17 GROUND WATER ARD2027	1.7 UJ	PT-18 GROUND WATER ARD2048	1.7 U	ASHT-19 GROUND WATER ARD2048	2
	Iron	UG/L	0	0%	100	0	0	PT-16 GROUND WATER ARD2014	5 U	PT-17 GROUND WATER ARD2027	5 UJ	PT-18 GROUND WATER ARD2048	5 U	ASHT-19 GROUND WATER ARD2048	2
	Ammonium	UG/L	11600	67%	300	14	35	PT-16 GROUND WATER ARD2014	14.7 U	PT-17 GROUND WATER ARD2027	243 J	PT-18 GROUND WATER ARD2048	199 J	ASHT-19 GROUND WATER ARD2048	2
	Strontium	UG/L	5.4	10%	25	0	5	PT-16 GROUND WATER ARD2014	1.2 U	PT-17 GROUND WATER ARD2027	1 UJ	PT-18 GROUND WATER ARD2048	1.2 U	ASHT-19 GROUND WATER ARD2048	2
	Barium	UG/L	47100	98%		51	52	PT-16 GROUND WATER ARD2014	11500	PT-17 GROUND WATER ARD2027	10200 J	PT-18 GROUND WATER ARD2048	27900	ASHT-19 GROUND WATER ARD2048	2
	Vanadium	UG/L	3140	83%	300	7	43	PT-16 GROUND WATER ARD2014	7.3 J	PT-17 GROUND WATER ARD2027	12.2 J	PT-18 GROUND WATER ARD2048	471	ASHT-19 GROUND WATER ARD2048	2
	Chromium	UG/L	0.2	12%	2	0	6	PT-16 GROUND WATER ARD2014	0.1 U	PT-17 GROUND WATER ARD2027	0.1 UJ	PT-18 GROUND WATER ARD2048	0.16 J	ASHT-19 GROUND WATER ARD2048	2
	Vanadium	UG/L	5.6	12%		0	6	PT-16 GROUND WATER ARD2014	2.6 U	PT-17 GROUND WATER ARD2027	1.7 UJ	PT-18 GROUND WATER ARD2048	1.8 J	ASHT-19 GROUND WATER ARD2048	2
	Chromium	UG/L	18400	98%		0	51	PT-16 GROUND WATER ARD2014	1050 J	PT-17 GROUND WATER ARD2027	1230 J	PT-18 GROUND WATER ARD2048	4470 J	ASHT-19 GROUND WATER ARD2048	2
	Mercury	UG/L	2.6	2%	10	0	1	PT-16 GROUND WATER ARD2014	2.8 U	PT-17 GROUND WATER ARD2027	2.4 UJ	PT-18 GROUND WATER ARD2048	2.4 U	ASHT-19 GROUND WATER ARD2048	2
	Vanadium	UG/L	0	0%	50	0	0	PT-16 GROUND WATER ARD2014	1.6 U	PT-17 GROUND WATER ARD2027	1.6 UJ	PT-18 GROUND WATER ARD2048	1.6 U	ASHT-19 GROUND WATER ARD2048	2
	Chromium	UG/L	142000	98%	20000	27	51	PT-16 GROUND WATER ARD2014	7140	PT-17 GROUND WATER ARD2027	20000 J	PT-18 GROUND WATER ARD2048	59600	ASHT-19 GROUND WATER ARD2048	2
	Vanadium	UG/L	10.8	19%		0	10	PT-16 GROUND WATER ARD2014	2.9 U	PT-17 GROUND WATER ARD2027	2.7 UJ	PT-18 GROUND WATER ARD2048	4.2 J	ASHT-19 GROUND WATER ARD2048	2
	Mercury	UG/L	4.5	6%		0	3	PT-16 GROUND WATER ARD2014	3.2 U	PT-17 GROUND WATER ARD2027	1.5 UJ	PT-18 GROUND WATER ARD2048	1.5 U	ASHT-19 GROUND WATER ARD2048	2
	Chromium	UG/L	134	81%	300	0	42	PT-16 GROUND WATER ARD2014	1.8 U	PT-17 GROUND WATER ARD2027	2.3 J	PT-18 GROUND WATER ARD2048	134	ASHT-19 GROUND WATER ARD2048	2





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

ELEMENT CODE	ELEMENT NAME	UNIT	MAXIMUM	DETECTION	FREQ. OF DETECTION	NYSDEC CLASS	STANDARD	NUMBER ABOVE	NUMBER OF	FILL	FACILITY		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH REMEDIAL DESIGN	DATE	SAMPLE DATE
											LOCATION ID	MATRIX	PT-20	GROUND WATER	PT-20	GROUND WATER	PT-21A	GROUND WATER			
CONCENTRATION	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	STANDARD	PERCENT	PERCENT	CLASS	STANDARD	NUMBER	OF	ATEX	PT-20	GROUND WATER	PT-20	GROUND WATER	PT-21A	GROUND WATER	PT-22	GROUND WATER	DATE	DATE	DATE
Lead	0	0	10	0%	0	0	0	0	52	U	PT-20	0.3	PT-20	0.3	PT-21A	0.3	PT-22	0.3	21-Oct-99	21-Oct-99	
Mercury	268000	0	51	98%	51	52	159000	J	52	J	ARD2026	124	ARD2025	124	ARD2046	191000	ARD2045	236000			
Vanadium	5.6	50	8	15%	8	52	J	0.9	52	J	ARD2026	0.9	ARD2025	0.9	ARD2046	0.9	ARD2045	0.9			
Chromium	8.4	4%	2	4%	2	52	J	2	52	J	ARD2026	2	ARD2025	2	ARD2046	2.5	ARD2045	2.5			
Barium	6.1	10%	200	10%	5	52	J	1.7	52	J	ARD2026	1.7	ARD2025	1.7	ARD2046	1.7	ARD2045	1.7			
Strontium	0	0%	100	0%	0	52	J	5	52	J	ARD2026	5	ARD2025	5	ARD2046	5	ARD2045	5			
Lead	11600	67%	300	67%	35	52	J	14.7	52	J	ARD2026	14.7	ARD2025	14.7	ARD2046	556	ARD2045	58.4			
Cadmium	5.4	10%	25	10%	5	52	J	1	52	J	ARD2026	1	ARD2025	1	ARD2046	1	ARD2045	1			
Cesium	47100	98%	0	98%	51	52	16200	J	52	J	ARD2026	134	ARD2025	134	ARD2046	36200	ARD2045	28500			
Barium	3140	83%	300	83%	43	52	J	3.3	52	J	ARD2026	0.9	ARD2025	0.9	ARD2046	503	ARD2045	37.1			
Vanadium	0.2	12%	2	12%	6	52	J	0.12	52	J	ARD2026	0.1	ARD2025	0.1	ARD2046	0.1	ARD2045	0.1			
Strontium	5.6	12%	0	12%	6	52	J	1.7	52	J	ARD2026	1.7	ARD2025	1.7	ARD2046	1.7	ARD2045	1.7			
Lead	18400	98%	0	98%	51	52	2050	J	52	J	ARD2026	261	ARD2025	261	ARD2046	8560	ARD2045	1990			
Cadmium	2.6	2%	10	2%	1	52	J	2.4	52	J	ARD2026	2.4	ARD2025	2.4	ARD2046	2.4	ARD2045	2.4			
Vanadium	0	0%	50	0%	0	52	J	1.6	52	J	ARD2026	1.6	ARD2025	1.6	ARD2046	1.6	ARD2045	1.6			
Mercury	142000	98%	20000	98%	27	51	24800	J	52	J	ARD2026	875	ARD2025	875	ARD2046	41300	ARD2045	59400			
Vanadium	10.8	19%	0	19%	10	52	J	2.7	52	J	ARD2026	2.7	ARD2025	2.7	ARD2046	5.1	ARD2045	3.9			
Strontium	4.5	6%	0	6%	3	52	J	1.5	52	J	ARD2026	1.5	ARD2025	1.5	ARD2046	1.5	ARD2045	1.5			
Lead	134	81%	300	81%	42	52	J	2.4	52	J	ARD2026	1.6	ARD2025	1.6	ARD2046	4.2	ARD2045	5.3			



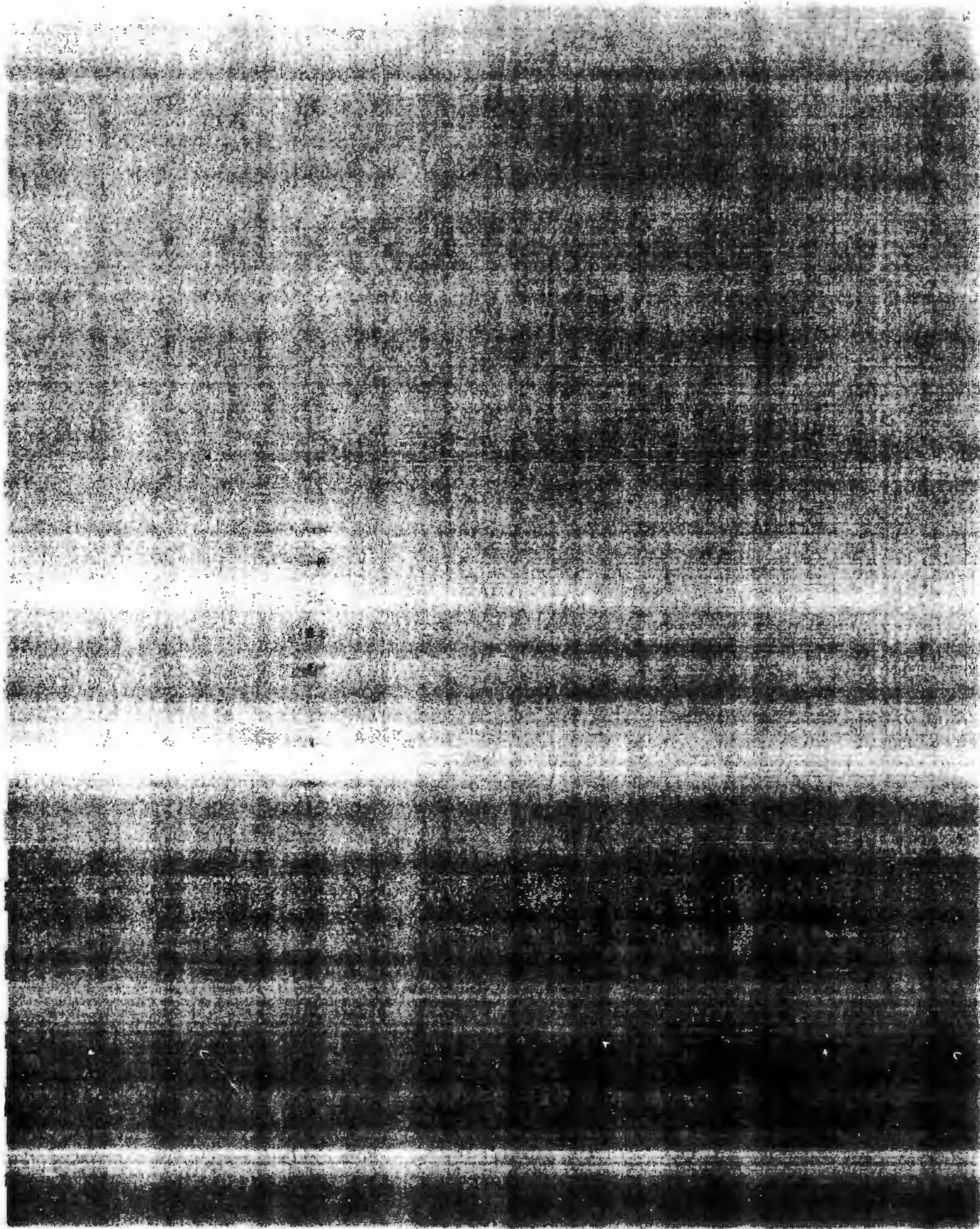
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APPENDIX C1
GROUND WATER CHEMICAL RESULTS - 4Q 1999
GROUNDWATER MONITORING -
ASH REMEDIAL DESIGN
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

QC CODE	STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	FREQ. OF	NYSDEC	NUMBER	NUMBER	OF	DETECTS	OF	ANALYSES	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL	
														CLASS	GA	STD.	ABOVE	STD.	STANDARD	PT-23	PT-24
		Cadmium	UG/L	0	0%	0	10	0	52	0	0	0	0	0.7 U	0.7 UJ	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
		Calcium	UG/L	268000	98%	0	51	0	52	0	0	104000	101000 J	77200	101000 J	77200	77200	77200	77200	77200	36900
		Chromium	UG/L	5.6	15%	0	50	0	52	8	0	0.9 U	0.9 UJ	0.9 UJ	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	1.2 J
		Cobalt	UG/L	8.4	4%	0	2	0	52	2	0	2.5 U	2.5 UJ	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
		Copper	UG/L	6.1	10%	0	200	0	52	5	0	1.9 U	1.9 UJ	1.9 UJ	1.9 UJ	1.9 UJ	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		Cyanide	UG/L	0	0%	0	100	0	52	0	0	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U
		Iron	UG/L	11600	67%	14	300	14	52	35	0	413	14.7 UJ	14.7 UJ	14.7 UJ	14.7 UJ	27.8 J	27.8 J	27.8 J	27.8 J	191 J
		Lead	UG/L	5.4	10%	0	25	0	52	5	0	1.2 U	1.2 UJ	1.2 UJ	1.2 UJ	1.2 UJ	1 U	1 U	1 U	1 U	1 U
		Magnesium	UG/L	47100	98%	0	51	0	52	51	0	12700	11400 J	11400 J	11400 J	8130	8130	8130	8130	14000	14000
		Manganese	UG/L	3140	83%	7	300	7	52	43	0	146	0.9 UJ	0.9 UJ	0.9 UJ	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	82.2
		Mercury	UG/L	0.2	12%	2	0	0	52	6	0	0.1 U	0.1 UJ	0.1 UJ	0.1 UJ	0.15 J	0.15 J	0.15 J	0.15 J	0.15 J	0.1 U
		Nickel	UG/L	5.6	12%	0	0	0	52	6	0	2.6 U	2.6 UJ	2.6 UJ	2.6 UJ	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
		Potassium	UG/L	18400	98%	0	51	0	52	51	0	2220 J	1510 J	1510 J	1510 J	1050 J	1050 J	1050 J	1050 J	2680 J	2680 J
		Selenium	UG/L	2.6	2%	10	0	0	52	1	0	2.8 U	2.8 UJ	2.8 UJ	2.8 UJ	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
		Silver	UG/L	0	0%	50	0	0	52	0	0	1.6 U	1.6 UJ	1.6 UJ	1.6 UJ	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
		Sodium	UG/L	142000	98%	27	20000	27	52	51	0	10600	10200 J	10200 J	10200 J	10800	10800	10800	10800	91100	91100
		Thallium	UG/L	10.8	19%	0	10	0	52	10	0	2.9 U	2.9 UJ	2.9 UJ	2.9 UJ	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	5.5 J
		Vanadium	UG/L	4.5	6%	0	300	0	52	3	0	3.2 U	3.2 UJ	3.2 UJ	3.2 UJ	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
		Zinc	UG/L	134	81%	0	300	0	52	42	0	5.9 J	1.8 UJ	1.8 UJ	1.8 UJ	1.9 J	1.9 J	1.9 J	1.9 J	1.9 J	2.8 J

















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

WELL NUMBER	UNIT	MAXIMUM DETECTION	STD.	NYSDEC CLASSIFICATION	DETECTION ABOVE	STANDARD	NUMBER OF ANALYSES	FACILITY		ASH LANDFILL MW-34		ASH LANDFILL MW-35D		ASH LANDFILL MW-36		ASH LANDFILL MW-37		ASH LANDFILL MW-38D		DATE	ANALYSIS
								LOCATION ID	MATRIX	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER				
1	UG/L	4.5	12%	0	6	2.2 U	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	2.2 U	2.2 U	1/6/2000	SA
2	UG/L	5	22%	0	11	2.5 U	51	2.5 U	3.2 J	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	1/10/2000	SA
3	UG/L	173	100%	0	51	96.7 J	51	96.7 J	82.9 J	54.7 J	54.9 J	54.9 J	54.9 J	54.9 J	54.9 J	54.9 J	54.9 J	54.9 J	54.9 J	1/10/2000	SA
4	UG/L	0.26	14%	0	7	0.1 U	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	1/10/2000	SA
5	UG/L	0.35	2%	0	1	0.2 U	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	1/10/2000	SA
6	UG/L	391000	100%	0	51	75800	51	75800	14400	107000	95000	95000	95000	95000	95000	95000	95000	95000	95000	1/10/2000	SA
7	UG/L	4.1	14%	0	7	1 U	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	1/10/2000	SA
8	UG/L	2	6%	0	3	1.3 U	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	1/10/2000	SA
9	UG/L	14.6	33%	0	17	1.6 U	51	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	1/10/2000	SA
10	UG/L	0	0%	0	0	10 U	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	1/10/2000	SA
11	UG/L	6350	63%	14	32	300	51	203 J	97.8 J	20.3 UJ	498 J	498 J	498 J	498 J	498 J	498 J	498 J	498 J	498 J	1/10/2000	SA
12	UG/L	3.8	10%	0	5	1.3 U	51	1.3 U	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	1.3 U	1.3 U	1/10/2000	SA
13	UG/L	85900	100%	0	51	13300	51	13300	4650 J	15900	12800	12800	12800	12800	12800	12800	12800	12800	12800	1/10/2000	SA
14	UG/L	344	100%	2	51	39.7	51	39.7	44.4	41.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	53.1	1/10/2000	SA
15	UG/L	6.2	10%	0	5	1.8 J	51	1.8 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	1/10/2000	SA
16	UG/L	25600	100%	0	51	1730 J	51	1730 J	1650 J	1250 J	895 J	895 J	895 J	895 J	895 J	895 J	895 J	895 J	895 J	1/10/2000	SA
17	UG/L	3	2%	0	1	2.5 U	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	1/10/2000	SA
18	UG/L	2.8	2%	0	1	1 UJ	51	1 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	1/10/2000	SA
19	UG/L	175000	90%	23	46	20000	51	41200	107000	29300	10400	10400	10400	10400	10400	10400	10400	10400	10400	1/10/2000	SA
20	UG/L	7.4	6%	0	3	3.2 U	51	3.2 U	3.2 U	3.2 U	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	1/10/2000	SA
21	UG/L	10.8	8%	0	4	1.8 U	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	1/10/2000	SA
22	UG/L	1620	100%	300	1	19.1 J	51	19.1 J	6.4 J	5.4 J	13.8 J	13.8 J	13.8 J	13.8 J	13.8 J	13.8 J	13.8 J	13.8 J	13.8 J	1/10/2000	SA





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

WELL NUMBER	UNIT	MAXIMUM DETECTION	STD.	CLASS	GA	NUMBER ABOVE	OF	DETECTS	ANALYSES	ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		
										MW-40	MW-41D	MW-42D	MW-43	MW-44A	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
	UG/L	4.5	12%	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
	UG/L	5	22%	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
	UG/L	173	100%	0	51	51	69.2 J	75.9 J	93.2 J	93.2 J	93.2 J	93.2 J	93.2 J	93.2 J	93.2 J	93.2 J	93.2 J	93.2 J	93.2 J	93.2 J
	UG/L	0.26	14%	0	7	51	0.1 U	0.12 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
	UG/L	0.35	2%	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
	UG/L	391000	100%	0	51	51	96800	74100	53700	53700	53700	53700	53700	53700	53700	53700	53700	53700	53700	53700
	UG/L	4.1	14%	0	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	1 U
	UG/L	2	6%	0	3	51	1.3 U	1.3 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	1.3 U	1.3 U	1.3 U	1.3 U
	UG/L	14.6	33%	0	17	51	1.7 J	1.6 J	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
	UG/L	0	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	10 U
	UG/L	6350	63%	14	32	51	20.3 UJ	20.3 UJ	13.7 J	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ	20.3 UJ
	UG/L	3.8	10%	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
	UG/L	85900	100%	0	51	51	11100	27100	28300	28300	28300	28300	28300	28300	28300	28300	28300	28300	28300	28300
	UG/L	344	100%	300	2	51	1.8 J	182	71	71	71	71	71	71	71	71	71	71	71	71
	UG/L	0.14	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
	UG/L	6.2	10%	0	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	1.7 U
	UG/L	25600	100%	0	51	51	1340 J	3230 J	1960 J	1960 J	1960 J	1960 J	1960 J	1960 J	1960 J	1960 J	1960 J	1960 J	1960 J	1960 J
	UG/L	3	2%	10	0	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
	UG/L	2.8	2%	50	0	51	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
	UG/L	175000	90%	20000	23	46	13900	50400	15900	15900	15900	15900	15900	15900	15900	15900	15900	15900	15900	15900
	UG/L	7.4	6%	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
	UG/L	10.8	8%	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
	UG/L	1620	100%	300	1	51	9.1 J	9.4 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J





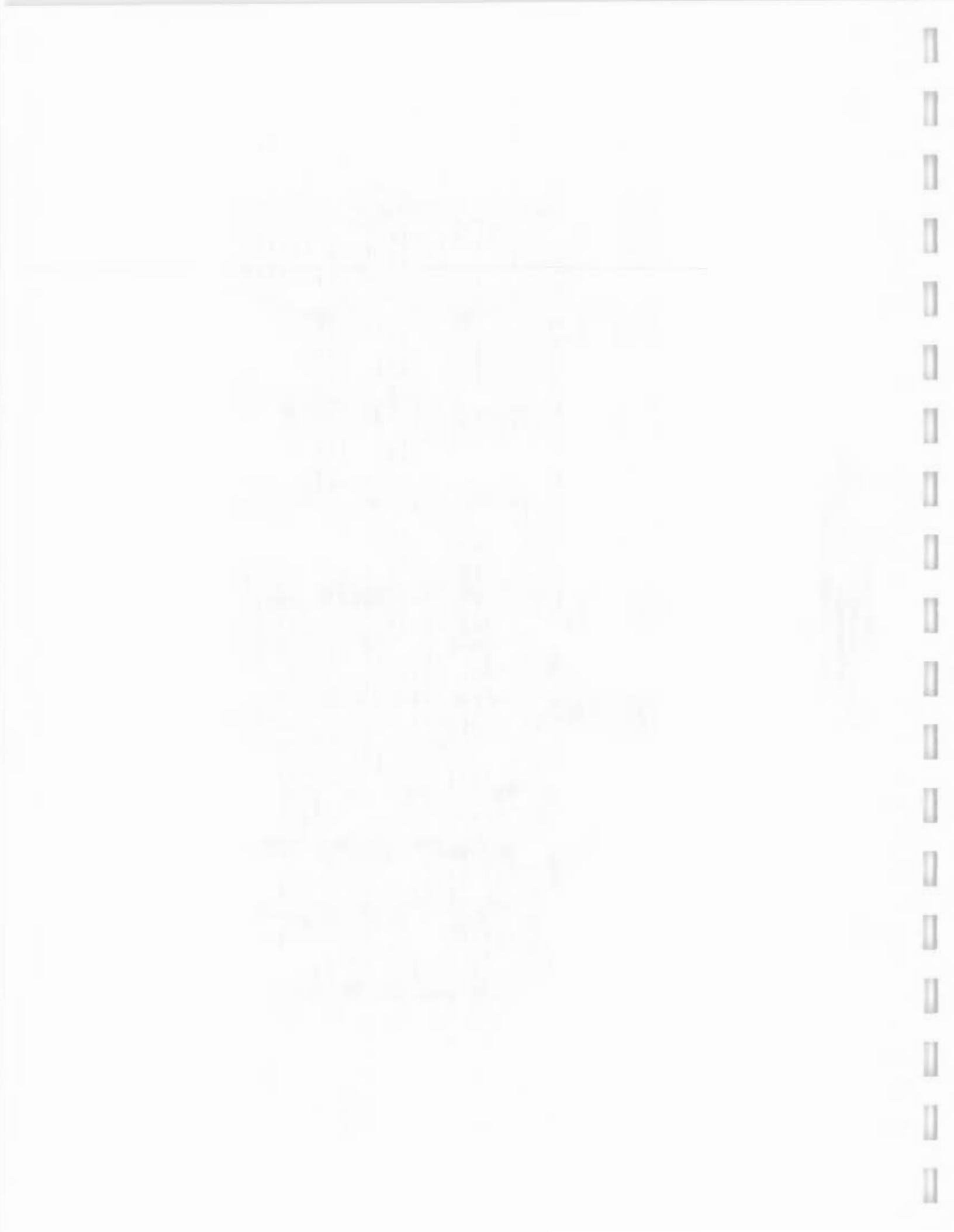
APPENDIX C2
GROUND WATER CHEMICAL RESULTS - 1Q 2000
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

WATER BODY	WELL ID	UNIT	MAXIMUM DETECTION	FREQUENCY OF DETECTION	NYSDEC CLASS	STG	NUMBER ABOVE STD.	OF	DETECTS	ANALYSES		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL		
										GA	N	2	N	2	N	2	N	2	N	2	N	2
		UGL	4.5	12%		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	
		UGL	5	22%		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	
		UGL	173	100%		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	
		UGL	0.26	14%		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	
		UGL	0.35	2%		10	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	
		UGL	391000	100%		0	51	51	125000	90100	93100	54100	86700	86700	86700	86700	86700	86700	86700	86700	86700	
		UGL	4.1	14%		50	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	
		UGL	2	6%		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	
		UGL	14.6	33%		200	0	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	
		UGL	0	0%		100	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	
		UGL	6360	63%		300	14	32	51	179 J	81.1 J	418 J	150 J	43.5 J	43.5 J	43.5 J	43.5 J	43.5 J	43.5 J	43.5 J	43.5 J	
		UGL	3.8	10%		25	0	5	51	1.3 U	1 U	1.3 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
		UGL	85900	100%		0	51	51	15000	11200	24400	25100	13900	13900	13900	13900	13900	13900	13900	13900	13900	
		UGL	344	100%		300	2	51	38.1	6.6 J	99.4	79.2	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4	
		UGL	0.14	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	
		UGL	6.2	10%		17	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	
		UGL	25600	100%		10	0	51	730 J	1260 J	1860 J	2360 J	1100 J	1100 J	1100 J	1100 J	1100 J	1100 J	1100 J	1100 J	1100 J	
		UGL	3	2%		50	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	
		UGL	2.8	2%		50	0	1	51	1 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	
		UGL	175000	90%		20000	23	46	51	10500	6690	8970	19800	27100	27100	27100	27100	27100	27100	27100	27100	27100
		UGL	7.4	6%		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	
		UGL	10.8	8%		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	
		UGL	1620	100%		300	1	51	3.8 J	4 J	4.5 J	10 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	3.2 J	

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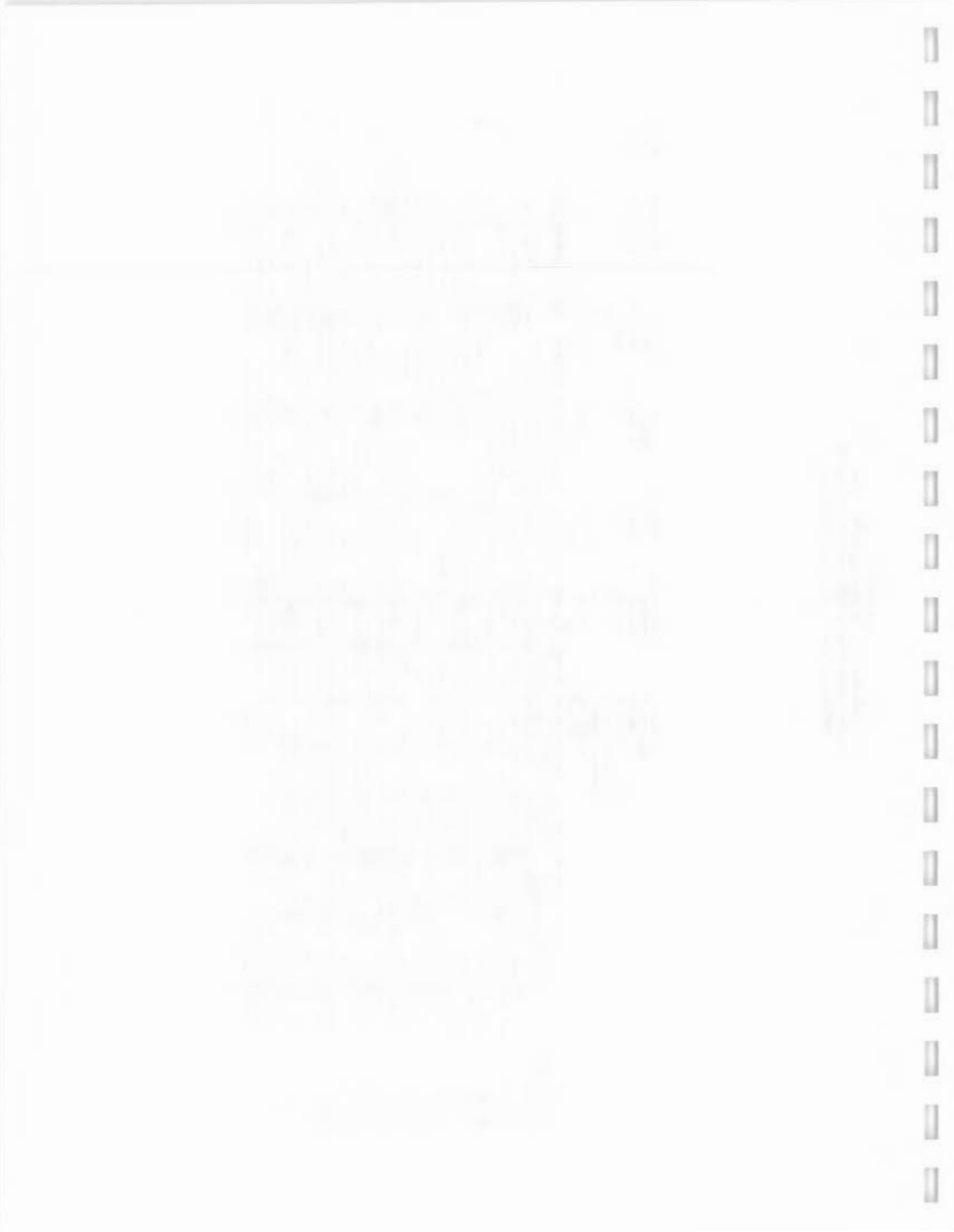


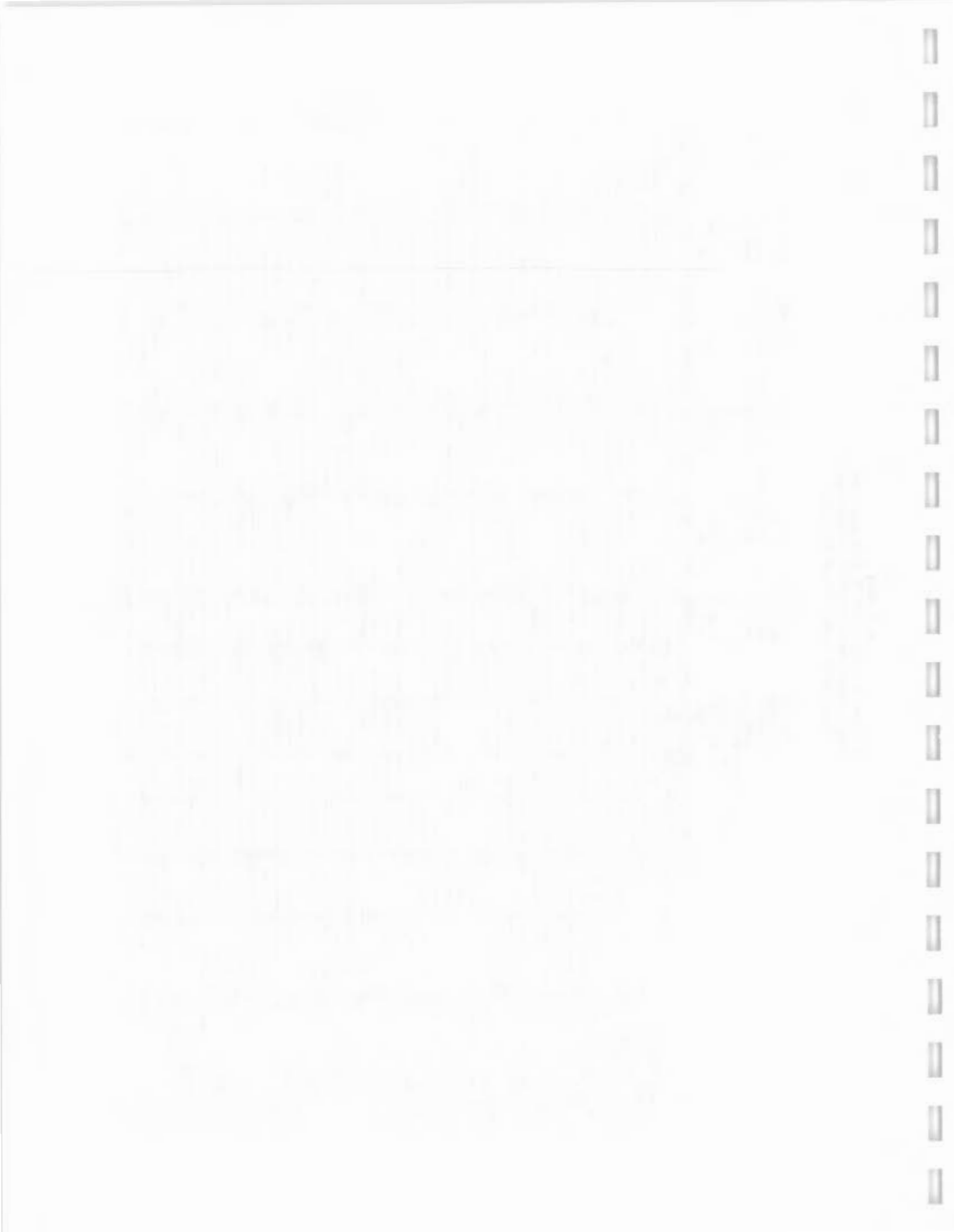


**APPENDIX C2
GROUND WATER CHEMICAL RESULTS - 1Q 2000
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY**

D	ROUND	UNIT	MAXIMUM	DETECTION	STD.	CLASS	NYSDC	NUMBER	OF	DETECTS	ASH REMEDIAL DESIGN		ASH REMEDIAL DESIGN		ASH REMEDIAL DESIGN		ASH REMEDIAL DESIGN		
											ANALYSES	N	N	N	N	N	N	N	
OF	OF	OF	OF	OF	OF	OF	OF	OF	OF	OF	ANALYSES	ANALYSES	ANALYSES	ANALYSES	ANALYSES	ANALYSES	ANALYSES	ANALYSES	
LE ORGANICS																			
	chloroethane	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	tetrachloroethane	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	chloroethane	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	croethane	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	croethane	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	chlorobenzene	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	mmo-3-chloropropane	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	mroethane	UG/L	0	0%	4.7	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	crobenzene	UG/L	0	0%	4.7	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	croethane	UG/L	3	2%	5	0	1	54	1	1	U	U	U	U	U	U	U	U	U
	ropropane	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	robenzene	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	robenzene	UG/L	0	0%	4.7	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	UG/L	UG/L	1	4%	0	2	54	5	U	U	U	U	U	U	U	U	U	U	U
	loromethane	UG/L	0	0%	0.7	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	chloromethane	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	mm	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	msulfide	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	etrachloride	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	nzene	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	romomethane	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	hane	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	mm	UG/L	0	0%	7	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	hichloroethane	UG/L	980	28%	5	14	15	54	1	1	U	U	U	U	U	U	U	U	U
	hichloropropene	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	robenzene	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	romide	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	yl/yl ketone	UG/L	0	0%	5	0	0	54	5	U	U	U	U	U	U	U	U	U	U
	loride	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	hyl ketone	UG/L	0	0%	50	0	0	54	5	U	U	U	U	U	U	U	U	U	U
	obbutyl ketone	UG/L	0	0%	5	0	0	54	5	U	U	U	U	U	U	U	U	U	U
	re chloride	UG/L	0	0%	5	0	0	54	2	U	U	U	U	U	U	U	U	U	U
	roethene	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	roethene	UG/L	2	6%	5	0	3	54	1	1	U	U	U	U	U	U	U	U	U
	enes	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	2-Dichloroethene	UG/L	2	4%	5	0	2	54	1	1	U	U	U	U	U	U	U	U	U
	B-Dichloropropene	UG/L	0	0%	5	0	0	54	1	1	U	U	U	U	U	U	U	U	U
	ethene	UG/L	760	28%	5	8	15	54	1	1	U	U	U	U	U	U	U	U	U
	bride	UG/L	25	2%	2	1	1	54	1	1	U	U	U	U	U	U	U	U	U
	UG/L	UG/L	7700	49%	0	25	51	3940	J	339	J	15.5	UJ	15.5	UJ	1550	J		





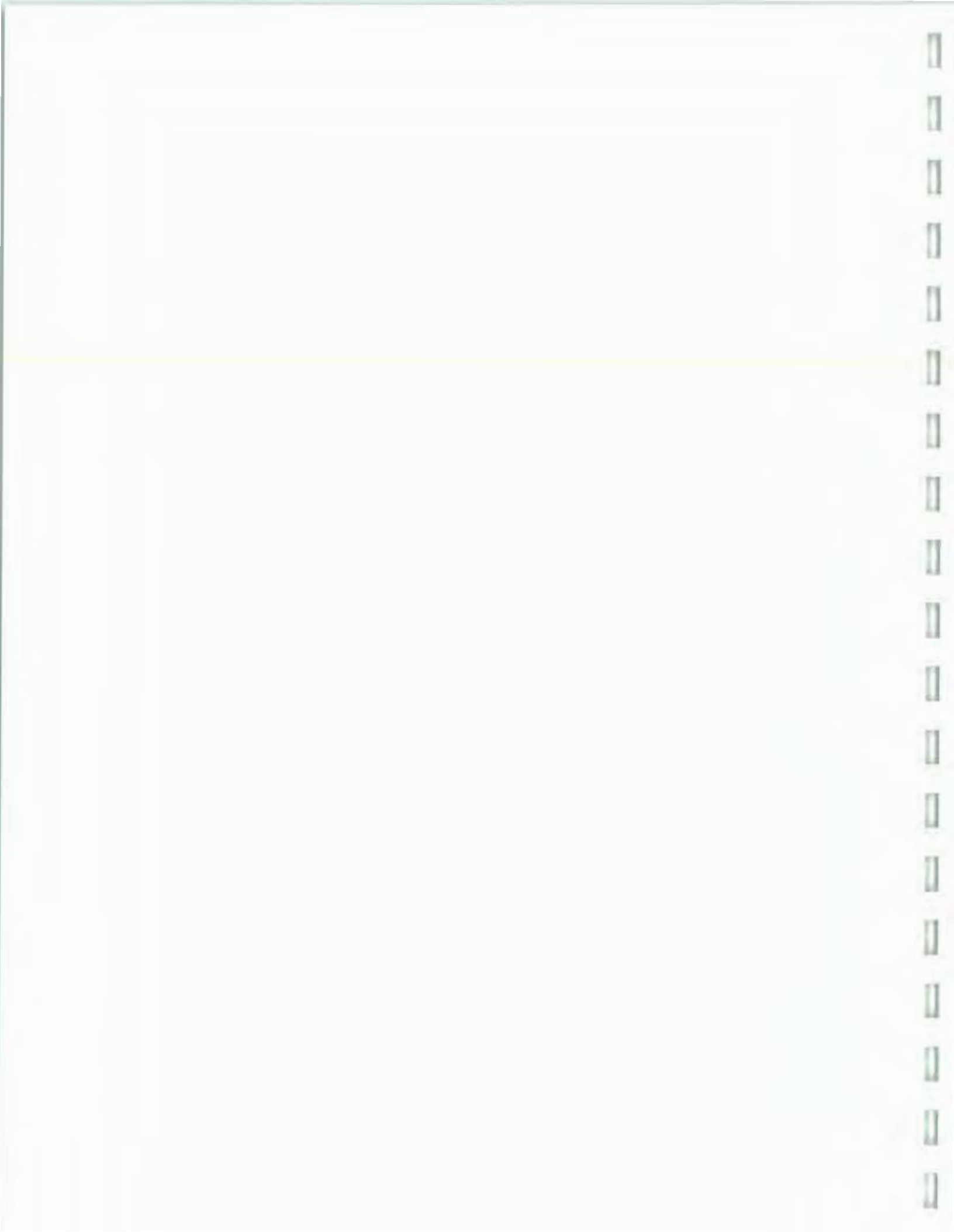


APPENDIX C2
GROUND WATER CHEMICAL RESULTS - 1Q 2000
GROUNDWATER MONITORING - ASH REMEDIAL DESIGN
SENECA ARMY DEPOT ACTIVITY ROMULUS, NY

WELL NUMBER	UNIT	MAXIMUM DETECTION	CLASS GA STD.	NYSDEC ABOVE STD.	FACILITY LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	FREQUENCY OF DETECTION	OF CLASS GA STD.	NUMBER OF ANALYSES	ASH LANDFILL PT-16		ASH LANDFILL PT-17		ASH LANDFILL PT-18		ASH LANDFILL PT-19		TOTAL		
													GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER			
	UG/L	4.5	12%	0	6					51	2.2 U	2.5 J	2.2 U	2.2 U	5.4 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	15	
	UG/L	5	22%	0	11					51	2.5 U	2.5 U	2.7 J	2.4 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	15	
	UG/L	173	100%	0	51					51	39.4 J	39 J	54.6 J	47.8 J	47.8 J	44.8 J	44.8 J	44.8 J	44.8 J	44.8 J	44.8 J	15	
	UG/L	0.26	14%	0	7					51	0.1 U	0.1 U	0.1 U	0.6 U	0.6 U	0.11 J	0.11 J	0.11 J	0.11 J	0.11 J	0.11 J	15	
	UG/L	0.35	2%	0	1					51	0.2 U	0.2 U	0.2 U	0.35 J	0.35 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	15	
	UG/L	391000	100%	0	51					51	99100	99400	123000	289000	289000	110000	110000	110000	110000	110000	110000	15	
	UG/L	4.1	14%	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	15	
	UG/L	2	6%	0	3					51	1.3 U	1.3 U	1.3 U	3.5 U	3.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	15	
	UG/L	14.6	33%	0	17					51	2.6 J	1.9 U	2.6 J	14.6 J	14.6 J	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	15	
	UG/L	0	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	15	
	UG/L	6350	63%	14	32					51	82.6 J	20.3 UJ	20.3 U	14.8 UJ	14.8 UJ	81.2 J	81.2 J	81.2 J	81.2 J	81.2 J	81.2 J	15	
	UG/L	3.8	10%	0	5					51	1.3 U	1.3 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	15	
	UG/L	85900	100%	0	51					51	12400	12400	12100	44500	44500	15300	15300	15300	15300	15300	15300	15	
	UG/L	344	100%	300	2					51	15.7 J	7.1 J	2.2 J	9.7 J	9.7 J	316	316	316	316	316	316	15	
	UG/L	0.14	2%	2	0					51	0.1 U	0.1 U	0.1 U	0.14 J	0.14 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	15	
	UG/L	6.2	10%	0	5					51	1.7 U	1.7 U	1.7 U	4.2 U	4.2 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	15	
	UG/L	25600	100%	10	0					51	712 J	822 J	690 J	4740 J	4740 J	1900 J	1900 J	1900 J	1900 J	1900 J	1900 J	15	
	UG/L	3	2%	0	1					51	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	15	
	UG/L	2.8	2%	50	0					51	1.3 UJ	1.3 UJ	1.3 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	15	
	UG/L	175000	90%	20000	23					51	5600	6010	24100 U	39800 J	39800 J	20700	20700	20700	20700	20700	20700	20700	15
	UG/L	7.4	6%	0	3					51	3.2 UJ	3.2 UJ	3.2 UJ	7.4 J	7.4 J	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	3.2 U	15	
	UG/L	10.8	8%	0	4					51	1.8 U	1.8 U	1.8 U	2.8 U	2.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	15	
	UG/L	1620	100%	300	1					51	3.1 J	4 J	4.1 J	8 J	8 J	3.1 J	3.1 J	3.1 J	3.1 J	3.1 J	3.1 J	15	







**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 DETECTION	NYSDEC CLASS	NYSDEC GA	NUMBER ABOVE STD.	NUMBER OF DETECTS	NUMBER OF ANALYSES	DESIGN	FACILITY		LOCATION ID		MATRIX		DEPTH TO TOP OF SAMPLE		DEPTH TO BOTTOM OF SAMPLE		SA	ASH REMEDIAL DESIGN	
											PT-26	ARD2138	13.5	13.5	1/29/2000	2							
	VOLATILE ORGANICS																						
	1,1,1-Trichloroethane	UG/L	0	0%			5	0	0	54													1 U
	1,1,2,2-Tetrachloroethane	UG/L	0	0%			5	0	0	54													1 U
	1,1,2-Trichloroethane	UG/L	0	0%				0	0	54													1 U
	1,1-Dichloroethane	UG/L	0	0%			5	0	0	54													1 U
	1,1-Dichloroethane	UG/L	0	0%			5	0	0	54													1 U
	1,2,4-Trichlorobenzene	UG/L	0	0%			5	0	0	54													1 U
	1,2-Dibromo-3-chloropropane	UG/L	0	0%				0	0	54													1 U
	1,2-Dibromoethane	UG/L	0	0%				0	0	54													1 U
	1,2-Dichlorobenzene	UG/L	0	0%			4.7	0	0	54													1 U
	1,2-Dichloroethane	UG/L	3	2%			5	0	1	54													1 U
	1,2-Dichloropropane	UG/L	0	0%			5	0	0	54													1 U
	1,3-Dichlorobenzene	UG/L	0	0%			5	0	0	54													1 U
	1,4-Dichlorobenzene	UG/L	0	0%			4.7	0	0	54													1 U
	Acetone	UG/L	1	4%				0	2	54													5 U
	Benzene	UG/L	0	0%			0.7	0	0	54													1 U
	Bromochloromethane	UG/L	0	0%				0	0	54													1 U
	Bromodichloromethane	UG/L	0	0%				0	0	54													1 U
	Bromoform	UG/L	0	0%				0	0	54													1 U
	Carbon disulfide	UG/L	0	0%				0	0	54													1 U
	Carbon tetrachloride	UG/L	0	0%			5	0	0	54													1 U
	Chlorobenzene	UG/L	0	0%			5	0	0	54													1 U
	Chlorodibromomethane	UG/L	0	0%				0	0	54													1 U
	Chloroethane	UG/L	0	0%			5	0	0	54													1 U
	Chloroform	UG/L	0	0%			7	0	0	54													1 U
	Cis-1,2-Dichloroethene	UG/L	980	28%			5	14	15	54													1 U
	Cis-1,3-Dichloropropene	UG/L	0	0%			5	0	0	54													1 U
	Ethyl benzene	UG/L	0	0%			5	0	0	54													1 U
	Methyl bromide	UG/L	0	0%				0	0	54													1 U
	Methyl butyl ketone	UG/L	0	0%				0	0	54													5 U
	Methyl chloride	UG/L	0	0%			5	0	0	54													1 U
	Methyl ethyl ketone	UG/L	0	0%			50	0	0	54													5 U
	Methyl isobutyl ketone	UG/L	0	0%				0	0	54													5 U
	Methylene chloride	UG/L	0	0%			5	0	0	54													2 U
	Styrene	UG/L	0	0%				0	0	54													1 U
	Tetrachloroethene	UG/L	0	0%			5	0	0	54													1 U
	Toluene	UG/L	2	6%			5	0	3	54													1 U
	Total Xylenes	UG/L	0	0%			5	0	0	54													1 U
	Trans-1,2-Dichloroethene	UG/L	2	4%			5	0	2	54													1 U
	Trans-1,3-Dichloropropene	UG/L	0	0%			5	0	0	54													1 U
	Trichloroethene	UG/L	760	28%			5	8	15	54													1 U
	Vinyl chloride	UG/L	25	2%			2	1	1	54													1 U
	METALS																						
	Aluminum	UG/L	7700	49%				0	25	51													303 J



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

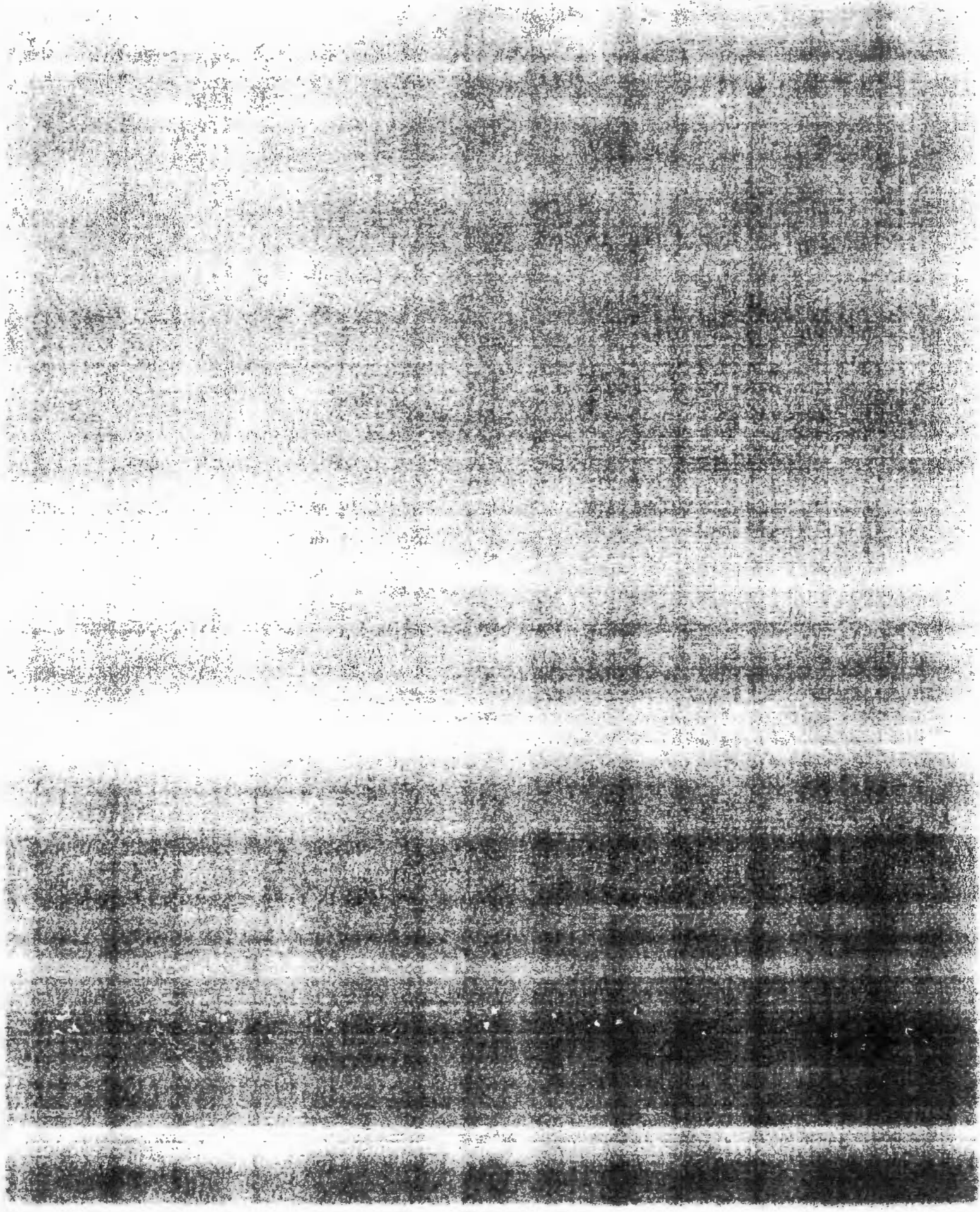
FACILITY
 ASH LANDFILL
 LOCATION ID
 PT-26
 MATRIX
 GROUND WATER
 SAMPLE ID
 AR02138
 DEPTH TO TOP OF SAMPLE
 13.5
 DEPTH TO BOTTOM OF SAMPLE
 13.5
 SAMPLE DATE
 1/29/2000
 QC CODE
 SA

STUDY ID	FREQUENCY OF DETECTION	NYSDEC CLASS	NUMBER ABOVE STD.	NUMBER OF DETECTS	NUMBER OF ANALYSES	ASH REMEDIAL DESIGN
SAMPLE ROUND	UNIT	MAXIMUM	DETECTION	STD.	STD.	OF
Antimony	UG/L	4.5	12%	0	6	51
Arsenic	UG/L	5	22%	25	11	51
Barium	UG/L	173	100%	1000	0	51
Beryllium	UG/L	0.26	14%	0	7	51
Cadmium	UG/L	0.35	2%	10	0	51
Calcium	UG/L	391000	100%	0	51	51
Chromium	UG/L	4.1	14%	50	0	51
Cobalt	UG/L	2	6%	0	3	51
Copper	UG/L	14.6	33%	200	0	17
Cyanide	UG/L	0	0%	100	0	0
Iron	UG/L	6350	63%	300	14	32
Lead	UG/L	3.8	10%	25	0	5
Magnesium	UG/L	85900	100%	0	51	51
Manganese	UG/L	344	100%	300	2	51
Mercury	UG/L	0.14	2%	2	0	1
Nickel	UG/L	6.2	10%	0	5	51
Potassium	UG/L	25600	100%	0	51	51
Selenium	UG/L	3	2%	10	0	1
Silver	UG/L	2.8	2%	50	0	1
Sodium	UG/L	175000	90%	20000	23	46
Thallium	UG/L	7.4	6%	0	3	51
Vanadium	UG/L	10.8	8%	0	4	51
Zinc	UG/L	1620	100%	300	1	51

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

MAXIMUM	DETECTION	NYS	CLASS	STANDARD	TAGM	NUMBER ABOVE	NUMBER OF	DETECTS	NUMBER OF	ANALYSES	ASH LANDFILL		ASH LANDFILL	
											OF	OF	OF	OF
UG/L	0	0%		5	0	0	0	0	12	12	4 U	1 U	ASH LANDFILL	ASH LANDFILL
UG/L	0	0%		5	0	0	0	0	12	12	4 U	1 U	MWT-10	MWT-11
UG/L	430	50%		5	3	6	12	23	12	12	23	1 U	GROUND WATER	GROUND WATER
UG/L	0	0%		2	0	0	12	4 U	12	12	4 U	1 U	TR2001	TR2000
UG/L	0	0%		5	0	0	12	4 U	12	12	4 U	1 U	8	8
UG/L	0	0%		4.7	0	0	12	4 U	12	12	4 U	1 U	7	8
UG/L	0	0%		5	0	0	12	4 U	12	12	4 U	1 U	4/26/1999	4/26/1999
UG/L	0	0%		4.7	0	0	12	4 U	12	12	4 U	1 U	SA	SA
UG/L	0	0%		4.7	0	0	12	4 U	12	12	4 U	1 U	ASH TRENCH	ASH TRENCH
UG/L	264000	100%			0	12	12	122000	12	12	49900	102000		
UG/L	548000	100%		300	9	12	12	403	12	12	13100	54.6		
UG/L	74400	100%			0	12	12	13800	12	12	10600	12800		
UG/L	6260	100%		300	5	12	12	13.2 B	12	12	191	78		
UG/L	15100	100%			0	12	12	1460 B	12	12	1520 B	5600		
UG/L	16400	100%		20000	0	12	12	9010	12	12	8860	12300		



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

CHEMICAL	MAXIMUM UG/L	FREQUENCY OF DETECTION	NYS CLASS STANDARD	NUMBER ABOVE TAGM	NUMBER OF DETECTS	NUMBER OF ANALYSES	ASH LANDFILL		ASH TRENCH	
							MWT-2 GROUND WATER TR2008	11.3 11.3	MWT-3 GROUND WATER TR2007	8 8
Trichloroethane	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
Tetrachloroethane	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
Trichloroethane	UG/L	0	0%	0	0	12	1 U	2 U	3 U	ASH TRENCH
chloroethane	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
chloroethene	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
romo-3-chloropropane	UG/L	0	0%	0	0	12	1 U	2 U	3 U	ASH TRENCH
romoethane	UG/L	0	0%	0	0	12	1 U	2 U	3 U	ASH TRENCH
chloroethane	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
chloropropane	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
e	UG/L	16	42%	0	5	12	6	8 U	14 U	ASH TRENCH
e	UG/L	0.9	50%	0.7	1	6	0.7 J	0.4 J	3 U	ASH TRENCH
chloromethane	UG/L	0	0%	0	0	12	1 U	2 U	3 U	ASH TRENCH
dichloromethane	UG/L	0	0%	0	0	12	1 U	2 U	3 U	ASH TRENCH
orm	UG/L	0	0%	0	0	12	1 U	2 U	3 U	ASH TRENCH
disulfide	UG/L	1	8%	0	1	12	1	2 U	3 U	ASH TRENCH
tetrachloride	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
enzene	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
ibromomethane	UG/L	0	0%	0	0	12	1 U	2 U	3 U	ASH TRENCH
ethane	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
orm	UG/L	0	0%	7	0	12	1 U	2 U	3 U	ASH TRENCH
-Dichloroethene	UG/L	73	83%	5	7	10	30 E	27	49	ASH TRENCH
-Dichloropropene	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
enzene	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
bromide	UG/L	0	0%	0	0	12	1 U	2 U	3 U	ASH TRENCH
butyl ketone	UG/L	0	0%	0	0	12	5 U	8 U	14 U	ASH TRENCH
chloride	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
ethyl ketone	UG/L	0	0%	50	0	12	5 U	8 U	14 U	ASH TRENCH
isobutyl ketone	UG/L	0	0%	0	0	12	5 U	8 U	14 U	ASH TRENCH
ane chloride	UG/L	0	0%	5	0	12	2 U	3 U	6 U	ASH TRENCH
e	UG/L	0	0%	0	0	12	1 U	2 U	3 U	ASH TRENCH
loroethane	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH
e	UG/L	0.7	17%	5	0	2	0.7 J	2 U	3 U	ASH TRENCH
ylenes	UG/L	0	0%	5	0	12	1 U	2 U	3 U	ASH TRENCH

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

CHEMICAL	MAXIMUM	DETECTION	FREQUENCY	NYS	CLASS	STANDARD	NUMBER	NUMBER	NUMBER	ANALYSES	ASH LANDFILL		ASH LANDFILL	
											OF	OF	OF	OF
	UG/L		OF				ABOVE	OF	OF	OF	TR2008	TR2007	TR2007	TR2004
						TAGM					11.3	11.3	8	10
											4/28/1999	4/27/1999	4/26/1999	SA
											SA	SA	SA	ASH TRENCH
1,1,2-Dichloroethene	0	0%			5	0	0	0	12	12	1 U	2 U	2 U	3 U
1,1,3-Dichloropropene	0	0%			5	0	0	0	12	12	1 U	2 U	2 U	3 U
1,2-Dichloroethane	430	50%			5	3	6	12	12	1	1 U	1 J	1 J	2 U
1,1-Dichloroethene	0	0%			2	0	0	12	12	1 U	1 U	2 U	2 U	3 U
1,2-Dichlorobenzene	0	0%			5	0	0	12	12	1 U	1 U	2 U	2 U	3 U
1,4-Dichlorobenzene	0	0%			4.7	0	0	12	12	1 U	1 U	2 U	2 U	3 U
1,2,4-Trichlorobenzene	0	0%			4.7	0	0	12	12	1 U	1 U	2 U	2 U	3 U
1,3,5-Trichlorobenzene	0	0%			4.7	0	0	12	12	1 U	1 U	2 U	2 U	3 U
1,1,1-Trichloroethane	0	0%			4.7	0	0	12	12	1 U	1 U	2 U	2 U	3 U
1,1,1-Trichloroethane	264000	100%			0	12	12	12	12	264000	58000	58000	118000	
1,1,1-Trichloroethane	548000	100%			300	9	12	12	12	523000	3600	3600	983	
1,1,1-Trichloroethane	74400	100%			0	12	12	12	12	60800	13000	13000	14300	
1,1,1-Trichloroethane	6260	100%			300	5	12	12	12	6260	611	611	37.1	
1,1,1-Trichloroethane	15100	100%			0	12	12	12	12	15100	1900 B	1900 B	1860 B	
1,1,1-Trichloroethane	16400	100%			20000	0	12	12	12	7410	9240	9240	15900	

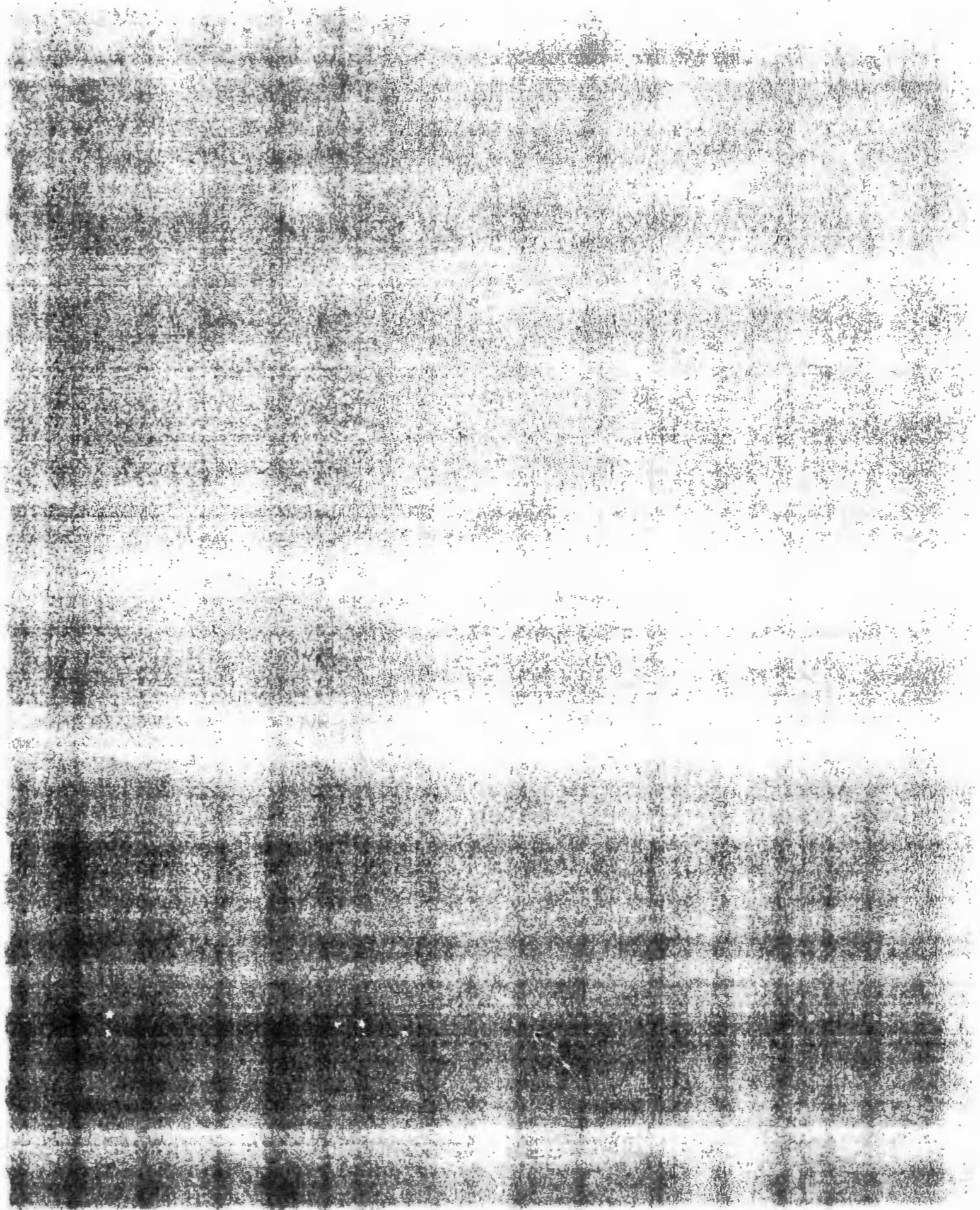














APPENDIX C4
GROUND WATER CHEMICAL RESULTS - 3Q 2001
GROUNDWATER MONITORING -
ASH REMEDIAL DESIGN
SENECA ARMY DEPOT ACTIVITY - ROMULUS, NY

QC CODE	STUDY ID	PARAMETER	UNIT	MAXIMUM	DETECTION	Criteria Value	Criteria Source	NUMBER ABOVE	NUMBER OF	DETECTS	ANALYSES		VALUE (Q)	VALUE (Q)	VALUE (Q)	VALUE (Q)	VALUE (Q)	VALUE (Q)	
											STANDARD	ANALYSES							
		1,1,1,2-Tetrachloroethane	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,1,1-Trichloroethane	UG/L	0	0%	5 GA	5 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,1,2,2-Tetrachloroethane	UG/L	0	0%	1 GA	1 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,1,2-Trichloroethane	UG/L	0	0%	18%	5 GA	1	3	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,1-Dichloroethane	UG/L	0	0%	5 GA	5 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,1-Dichloroethane	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,1-Dichloroethane	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,2,3-Trichlorobenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,2,3-Trichloropropane	UG/L	0	0%	0.04 GA	0.04 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,2,4-Trichlorobenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,2,4-Trimethylbenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,2-Dibromo-3-chloropropane	UG/L	0	0%	0.04 GA	0.04 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,2-Dibromoethane	UG/L	0	0%	0.0006 GA	0.0006 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,2-Dichlorobenzene	UG/L	0	0%	3 GA	3 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,2-Dichloroethane	UG/L	0.28	6%	0.6 GA	0.6 GA	0	1	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,2-Dichloropropane	UG/L	0	0%	1 GA	1 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,3,5-Trimethylbenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,3-Dichlorobenzene	UG/L	0	0%	3 GA	3 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,3-Dichloropropane	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		1,4-Dichlorobenzene	UG/L	0	0%	3 GA	3 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		2,2-Dichloropropane	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		2-Chlorotoluene	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		2-Nitropropane	UG/L	0	0%	5 GA	5 GA	0	0	0	11	25 U	25 U	25 U	25 U	25 U	25 U	25 U	ASH LANDFILL
		4-Bromofluorobenzene	UG/L	5	100%			0	6	6				5	5 J				ASH LANDFILL
		Acetone	UG/L	350	24%			0	4	17	5 U	5 U	5 U	5 U	110 U				ASH LANDFILL
		Acrylonitrile	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		Allyl chloride	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		Benzene	UG/L	0.81	12%	1 GA	1 GA	0	2	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		Bromobenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		Bromochloromethane	UG/L	0	0%	5 GA	5 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		Bromodichloromethane	UG/L	0.87	6%	80 MCL	80 MCL	0	1	17	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	ASH LANDFILL
		Bromoform	UG/L	0.62	6%	80 MCL	80 MCL	0	1	17	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.62	ASH LANDFILL
		Butyl chloride	UG/L	0	0%	5 GA	5 GA	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		Carbon disulfide	UG/L	0.34	6%	5 GA	5 GA	0	1	17	0.5 U	0.5 U	0.34 J	0.34 J	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		Carbon tetrachloride	UG/L	0	0%	5 GA	5 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		Chloroacetonitrile	UG/L	0	0%	5 GA	5 GA	0	0	0	11	25 R	25 R	25 R	25 R	25 R	25 R	25 R	ASH LANDFILL
		Chlorobenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		Chlorodibromomethane	UG/L	1.1	6%	80 MCL	80 MCL	0	1	17	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	ASH LANDFILL
		Chloroethane	UG/L	0	0%	5 GA	5 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		Chloroform	UG/L	0.46	6%	7 GA	7 GA	0	1	17	0.46 J	0.46 J	0.46 J	0.46 J	0.46 J	0.46 J	0.46 J	0.46 J	ASH LANDFILL
		Cis-1,2-Dichloroethene	UG/L	2300	82%	5 GA	5 GA	13	14	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL
		Cis-1,3-Dichloropropene	UG/L	0	0%	0.4 GA	0.4 GA	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	ASH LANDFILL



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

QC CODE	STUDY ID	FACILITY	LOCATION ID	MATRIX	SAMPLE ID	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	FREQUENCY OF DETECTION	UNIT	MAXIMUM	CONCENTRATION	CRITERIA VALUE	CRITERIA SOURCE	NUMBER ABOVE	NUMBER OF	ANALYSES	ASH TRENCH		ASH TRENCH		ASH TRENCH		ASH TRENCH			
																	16	16	16	16	16	16	16	16		
																	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)			
VOLATILE ORGANICS																										
	1,1,1,2-Tetrachloroethane	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,1,1-Trichloroethane	UG/L	0	0%	0	0	5 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,1,2,2-Tetrachloroethane	UG/L	0	0%	0	0	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,1,2-Trichloroethane	UG/L	0	0%	0	0	1 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,1-Dichloroethane	UG/L	6	18%	1	3	5 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.56
	1,1-Dichloroethane	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,1-Dichloroethane	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,2,3-Trichlorobenzene	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,2,3-Trichloropropane	UG/L	0	0%	0	0	0.04 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,2,4-Trichlorobenzene	UG/L	0	0%	0	0	5 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,2,4-Trichlorobenzene	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,2-Dibromo-3-chloropropane	UG/L	0	0%	0	0	0.04 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,2-Dibromoethane	UG/L	0	0%	0	0	0.0006 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,2-Dichlorobenzene	UG/L	0	0%	0	0	3 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,2-Dichloroethane	UG/L	0.28	6%	0	1	0.6 GA	0	1	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,2-Dichloroethane	UG/L	0	0%	0	0	1 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,3,5-Trimethylbenzene	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,3-Dichlorobenzene	UG/L	0	0%	0	0	3 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,3-Dichloropropane	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	1,4-Dichlorobenzene	UG/L	0	0%	0	0	3 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	2,2-Dichloropropane	UG/L	0	0%	0	0	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	2-Chlorotoluene	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	2-Nitropropane	UG/L	0	0%	0	0	0	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	4-Bromofluorobenzene	UG/L	5	100%	0	6	0	0	0	6	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	38
	Acetone	UG/L	350	24%	0	4	0	0	0	17	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	7.5
	Acrylonitrile	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.75
	Allyl chloride	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Benzene	UG/L	0.81	12%	0	2	1 GA	0	2	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Bromobenzene	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Bromochloromethane	UG/L	0	0%	0	0	5 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Bromodichloromethane	UG/L	0.87	6%	0	1	80 MCL	0	1	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Bromoform	UG/L	0.62	6%	0	1	80 MCL	0	1	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Butyl chloride	UG/L	0	0%	0	0	5 GA	0	0	11	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Carbon disulfide	UG/L	0.34	6%	0	1	0	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Carbon tetrachloride	UG/L	0	0%	0	0	5 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Chloroacetonitrile	UG/L	0	0%	0	0	0	0	0	11	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	38
	Chlorobenzene	UG/L	0	0%	0	0	5 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Chlorodibromomethane	UG/L	1.1	6%	0	1	80 MCL	0	1	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Chloroethane	UG/L	0	0%	0	0	5 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Chloroform	UG/L	0.46	6%	0	1	7 GA	0	1	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75
	Cis-1,2-Dichloroethane	UG/L	2300	82%	13	14	5 GA	0	17	17	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	28
	Cis-1,3-Dichloropropene	UG/L	0	0%	0	0	0.4 GA	0	0	17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.75

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

QC CODE	STUDY ID	FREQUENCY	OF	Criteria	Criteria	Value	Source ¹	DETECTION	MAXIMUM	UNIT	PARAMETER	SHAPE	DEPTH TO TOP OF SAMPLE	DEPTH TO BOTTOM OF SAMPLE	SAMPLE ID	MATRIX	LOCATION ID	FACILITY	ASH TRENCH		ASH TRENCH		ASH TRENCH		ASH TRENCH		ASH TRENCH		ASH TRENCH		ASH TRENCH					
																			NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
																				ASH TRENCH	ASH TRENCH	ASH TRENCH	ASH TRENCH	ASH TRENCH	ASH TRENCH	ASH TRENCH	ASH TRENCH	ASH TRENCH	ASH TRENCH	ASH TRENCH	ASH TRENCH					
																				Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)					
				5 GA	5 GA	0	0	0	0	UG/L	Dichlorodifluoromethane								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Dichloromethyl methyl ketone								11	25 R	780 R	780 R	220 R	220 R												
				5 GA	5 GA	0	0	0	0	UG/L	Ethyl benzene								17	0.5 U	16 U	16 U	4.4 U	4.4 U												
				0.5 GA	0.5 GA	0	0	0	0	UG/L	Ethyl ether								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Ethyl methacrylate								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Hexachlorobutadiene								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Hexachloroethane								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Meta/Para Xylene								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Methacrylonitrile								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Methyl 2-propanoate								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Methyl Tertbutyl Ether								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Methyl bromide								17	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Methyl butyl ketone								17	2.5 UJ	78 UJ	78 UJ	22 UJ	22 UJ												
				5 GA	5 GA	0	0	0	0	UG/L	Methyl chloride								17	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Methyl ethyl ketone								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Methyl iodide								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Methyl isobutyl ketone								17	2.5 U	78 U	78 U	22 U	22 U												
				5 GA	5 GA	0	0	0	0	UG/L	Methyl methacrylate								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Methylene bromide								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	2	3	17	0.5 UJ	UG/L	Methylene chloride								17	0.5 UJ	29 UJ	29 UJ	9.9 UJ	9.9 UJ												
				5 GA	5 GA	0	0	0	0	UG/L	Naphthalene								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				0.4 GA	0.4 GA	0	0	0	0	UG/L	Nitrobenzene								11	25 R	780 R	780 R	220 R	220 R												
				5 GA	5 GA	0	0	0	0	UG/L	Ortho Xylene								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Pentachloroethane								11	0.5 UJ	16 UJ	16 UJ	4.4 UJ	4.4 UJ												
				5 GA	5 GA	0	0	0	0	UG/L	Propionitrile								11	25 U	780 U	780 U	220 U	220 U												
				5 GA	5 GA	0	0	0	0	UG/L	Propylbenzene								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Styrene								17	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Tetrachloroethane								17	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Tetrahydrofuran								11	2.5 U	78 U	78 U	22 U	22 U												
				5 GA	5 GA	0	1	17	0.5 U	UG/L	Toluene								17	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Total Xylenes								17	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	5	17	0.25 J	UG/L	Trans-1,2-Dichloroethene								17	0.25 J	16 U	16 U	4.4 U	4.4 U												
				0.4 GA	0.4 GA	0	0	0	0	UG/L	Trans-1,3-Dichloropropene								17	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	Trans-1,4-Dichloro-2-butene								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	9	14	17	0.96 J	UG/L	Trichloroethene								17	0.96 J	620 J	620 J	23 J	23 J												
				5 GA	5 GA	0	0	0	0	UG/L	Trichlorofluoromethane								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				2 GA	2 GA	2	3	17	0.26 J	UG/L	Vinyl chloride								17	0.26 J	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	n-Butylbenzene								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	p-Chlorotoluene								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	p-Isopropyltoluene								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	sec-Butylbenzene								11	0.5 U	16 U	16 U	4.4 U	4.4 U												
				5 GA	5 GA	0	0	0	0	UG/L	tert-Butylbenzene								11	0.5 U	16 U	16 U	4.4 U	4.4 U												

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

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

ASH LANDFILL
PT-24
GROUNDWATER
ARD2166
10.88
10.88
31-Aug-01
SA

FACILITY
LOCATION ID
MATRIX
SAMPLE ID
DEPTH TO TOP OF SAMPLE
DEPTH TO BOTTOM OF SAMPLE
SAMPLE DATE

QC CODE	STUDY ID	PARAMETER	UNIT	MAXIMUM	FREQUENCY OF DETECTION	Criteria Value	Criteria Source	NUMBER ABOVE	NUMBER OF	NUMBER OF	ASH REMEDIAL
		SAMPLE ROUND				Value	Source	STD.	DETECTS	ANALYSES	Value (Q)
VOLATILE ORGANICS											
		1,1,1,2-Tetrachloroethane	UG/L	0	0%	5 GA	5 GA	0	0	0	11
		1,1,1-Trichloroethane	UG/L	0	0%	5 GA	5 GA	0	0	0	17
		1,1,2,2-Tetrachloroethane	UG/L	0	0%			0	0	0	17
		1,1,2-Trichloroethane	UG/L	0	0%	1 GA	1 GA	0	0	0	17
		1,1-Dichloroethane	UG/L	6	18%	5 GA	5 GA	1	3	3	17
		1,1-Dichloroethene	UG/L	0	0%	5 GA	5 GA	0	0	0	17
		1,1-Dichloropropene	UG/L	0	0%	5 GA	5 GA	0	0	0	11
		1,2,3-Trichlorobenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	11
		1,2,3-Trichloropropane	UG/L	0	0%	0.04 GA	0	0	0	0	11
		1,2,4-Trichlorobenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	17
		1,2,4-Trimethylbenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	11
		1,2-Dibromo-3-chloropropane	UG/L	0	0%	0.04 GA	0	0	0	0	17
		1,2-Dibromoethane	UG/L	0	0%	0.0006 GA	0	0	0	0	17
		1,2-Dichlorobenzene	UG/L	0	0%	3 GA	3 GA	0	0	0	17
		1,2-Dichloroethane	UG/L	0.28	6%	0.6 GA	0.6 GA	0	1	1	17
		1,2-Dichloropropane	UG/L	0	0%	1 GA	1 GA	0	0	0	17
		1,3,5-Trimethylbenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	11
		1,3-Dichlorobenzene	UG/L	0	0%	3 GA	3 GA	0	0	0	17
		1,3-Dichloropropane	UG/L	0	0%	5 GA	5 GA	0	0	0	11
		1,4-Dichlorobenzene	UG/L	0	0%	3 GA	3 GA	0	0	0	17
		2,2-Dichloropropane	UG/L	0	0%			0	0	0	11
		2-Chlorotoluene	UG/L	0	0%	5 GA	5 GA	0	0	0	11
		2-Nitropropane	UG/L	0	0%			0	0	0	11
		4-Bromofluorobenzene	UG/L	5	100%			0	6	6	4 J
		Acetone	UG/L	350	24%			0	4	4	17
		Acrylonitrile	UG/L	0	0%	5 GA	5 GA	0	0	0	11
		Allyl chloride	UG/L	0	0%	5 GA	5 GA	0	0	0	11
		Benzene	UG/L	0.81	12%	1 GA	1 GA	0	2	2	17
		Bromobenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	11
		Bromochloromethane	UG/L	0	0%	5 GA	5 GA	0	0	0	17
		Bromodichloromethane	UG/L	0.87	6%	80 MCL	80 MCL	0	1	1	17
		Bromoform	UG/L	0.62	6%	80 MCL	80 MCL	0	1	1	17
		Butyl chloride	UG/L	0	0%	5 GA	5 GA	0	0	0	11
		Carbon disulfide	UG/L	0.34	6%			0	1	1	17
		Carbon tetrachloride	UG/L	0	0%	5 GA	5 GA	0	0	0	17
		Chloroacetonitrile	UG/L	0	0%			0	0	0	11
		Chlorobenzene	UG/L	0	0%	5 GA	5 GA	0	0	0	17
		Chlorodibromomethane	UG/L	1.1	6%	80 MCL	80 MCL	0	1	1	17
		Chloroethane	UG/L	0	0%	5 GA	5 GA	0	0	0	17
		Chloroform	UG/L	0.46	6%	7 GA	7 GA	0	1	1	17
		Cis-1,2-Dichloroethene	UG/L	2300	82%	5 GA	5 GA	13	14	14	17
		Cis-1,3-Dichloropropene	UG/L	0	0%	0.4 GA	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
PT-24
GROUNDWATER
ARD2166
10.88
10.88
31-Aug-01
SA

LOCATION ID
MATRIX
SAMPLE ID
DEPTH TO TOP OF SAMPLE
DEPTH TO BOTTOM OF SAMPLE
SAMPLE DATE

QC CODE	STUDY ID	FREQUENCY	NUMBER	NUMBER	NUMBER	ASH
SAMPLE ROUND	PARAMETER	UNIT	MAXIMUM	DETECTION	OF	REMEDIAL
					DETECTS	VALUE (Q)
					ABOVE	
					CRITERIA	
					SOURCE	
					VALUE	
	Dichlorodifluoromethane	UG/L	0	0%	5 GA	11
	Dichloromethyl methyl ketone	UG/L	0	0%		11
	Ethyl benzene	UG/L	0	0%	5 GA	17
	Ethyl ether	UG/L	0	0%		11
	Ethyl methacrylate	UG/L	0	0%		11
	Hexachlorobutadiene	UG/L	0	0%	0.5 GA	11
	Hexachloroethane	UG/L	0	0%	5 GA	11
	Isopropylbenzene	UG/L	0	0%	5 GA	11
	Mela/Para Xylene	UG/L	0	0%		11
	Methacrylonitrile	UG/L	0	0%	5 GA	11
	Methyl 2-propanoate	UG/L	0	0%		11
	Methyl Terbutyl Ether	UG/L	0	0%		11
	Methyl bromide	UG/L	0	0%	5 GA	17
	Methyl butyl ketone	UG/L	0	0%		4 U
	Methyl chloride	UG/L	0	0%	5 GA	21 UJ
	Methyl ethyl ketone	UG/L	0	0%		4 U
	Methyl iodide	UG/L	0	0%	5 GA	17
	Methyl isobutyl ketone	UG/L	0	0%		21 U
	Methyl methacrylate	UG/L	0	0%	50 GA	11
	Methylene bromide	UG/L	0	0%	5 GA	11
	Methylene chloride	UG/L	29	18%	5 GA	17
	Naphthalene	UG/L	0	0%		8 U
	Nitrobenzene	UG/L	0	0%	0.4 GA	11
	Ortho Xylene	UG/L	0	0%	5 GA	11
	Pentachloroethane	UG/L	0	0%	5 GA	11
	Propionitrile	UG/L	0	0%		11
	Propylbenzene	UG/L	0	0%	5 GA	11
	Styrene	UG/L	0	0%	5 GA	17
	Tetrachloroethene	UG/L	0	0%	5 GA	17
	Tetrahydrofuran	UG/L	0	0%		4 U
	Toluene	UG/L	0.29	6%	5 GA	17
	Total Xylenes	UG/L	0.71	29%	5 GA	17
	Trans-1,2-Dichloroethene	UG/L	0	0%	5 GA	4 U
	Trans-1,3-Dichloropropene	UG/L	0	0%	0.4 GA	4 U
	Trans-1,4-Dichloro-2-butene	UG/L	0	0%		4 U
	Trichloroethene	UG/L	9100	82%	5 GA	17
	Trichlorofluoromethane	UG/L	0	0%	5 GA	17
	Vinyl chloride	UG/L	120	18%	2 GA	3
	n-Butylbenzene	UG/L	0	0%	5 GA	17
	p-Chlorotoluene	UG/L	0	0%	5 GA	11
	p-Isopropyltoluene	UG/L	0	0%	5 GA	11
	sec-Butylbenzene	UG/L	0	0%	5 GA	11
	tert-Butylbenzene	UG/L	0	0%	5 GA	11

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

TABLE J-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		
			LOC ID: BN-S	MATRIX: GROUNDWATER	SAMP_ID: ARD2168	PH-D	GROUNDWATER	ARD2169	PH-S	GROUNDWATER	ARD2170	MW-30	GROUNDWATER	ARD2172
1,1,1,2-Tetrachloroethane	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,1,1-Trichloroethane	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,1,1,2-Tetrachloroethane	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,1,1,2-Trichloro-1,2,2-Trifluoroethane	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,1,2-Trichloroethane	1 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,1-Dichloroethane	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,1-Dichloroethene	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,1-Dichloropropene	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,2,3-Trichlorobenzene	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,2,3-Trichloropropane	0.04 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,2,4-Trichlorobenzene	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,2,4-Trimethylbenzene	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,2-Dibromo-3-chloropropane	0.04 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,2-Dibromoethane	0.0006 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,2-Dichlorobenzene	3 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,2-Dichloroethane	0.6 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,2-Dichloroethene (total)	70 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,2-Dichloropropane	1 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,3,5-Trimethylbenzene	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,3-Dichlorobenzene	3 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,3-Dichloropropane	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,4-Dichlorobenzene	3 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
1,4-Dioxane	UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
2,2-Dichloropropane	UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
2-Chloroethylvinylether	UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
2-Chlorotoluene	5 UG/L	UG/L	420 U	0	0	0	0	0	0	0	0	0	10.52	
2-Nitropropane	UG/L	UG/L	84 UJ	0	0	0	0	0	0	0	0	0	10.52	
Acetone	UG/L	UG/L	84 UJ	0	0	0	0	0	0	0	0	0	10.52	
Acrolein	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
Acrylonitrile	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
Allyl chloride	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
Benzene	1 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
Bromobenzene	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
Bromochloromethane	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
Bromodichloromethane	80 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
Bromoform	80 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
Butyl chloride	5 UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	
Carbon disulfide	UG/L	UG/L	8.4 U	0	0	0	0	0	0	0	0	0	10.52	

Shade: Indicates concentration above detection limit
 * 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		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL	
			BN-S	FH-D	FH-S	MW-30	BN-S	FH-D	FH-S	MW-30
Carbon tetrachloride	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroacetonitrile	5 UG/L	UG/L	420 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R
Chlorobenzene	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorodibromomethane	80 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	7 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroprene	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethene	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	0.4 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloromethyl methyl ketone	UG/L	UG/L	420 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R
Ethyl benzene	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethyl ether	UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethyl methacrylate	UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorobutadiene	0.5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachloroethane	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isobutyl alcohol	UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Meta/Para Xylene	UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methacrylonitrile	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl 2-propenoate	UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Tertiary Ether	UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl bromide	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl butyl ketone	UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl chloride	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl ethyl ketone	UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl iodide	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl isobutyl ketone	UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl methacrylate	50 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene bromide	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	0.4 UG/L	UG/L	420 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R
Ortho Xylene	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pentaachloroethane	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Propionitrile	UG/L	UG/L	420 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R
Propylbenzene	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5 UG/L	UG/L	8.4 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrahydrofuran	UG/L	UG/L	42 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Shade: Indicates concentration above detection limit
 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		ASH LANDFILL		ASH LANDFILL		ASH LANDFILL	
			Value (Q)	UG/L	Value (Q)	UG/L	Value (Q)	UG/L	Value (Q)	UG/L
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	UJ	0.5	UJ	0.5	UJ	0.5	UJ
Trans-1,4-Dichloro-2-butene	5	UG/L	8.4	U	0.5	U	0.5	U	0.5	U
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
 LOC ID: BN-S
 MATRIX: GROUNDWATER
 SAMP_ID: ARD2168
 SAMP_DEPTH TOP: 0
 SAMP_DEPTH BOT: 0
 SAMP_DATE: 4/10/02
 FIELD QC CODE: SA

ASH LANDFILL
 FH-D
 GROUNDWATER
 ARD2169
 4/10/02
 SA

ASH LANDFILL
 FH-S
 GROUNDWATER
 ARD2170
 4/10/02
 SA

ASH LANDFILL
 MW-30
 GROUNDWATER
 ARD2172
 10.52
 10.52
 4/10/02
 SA

Shade: Indicates concentration above detection limit
 Shaded: 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		ASH LANDFILL	
			LOC ID: MW-36	MATRIX: GROUNDWATER	MWT-1	MWT-10	MWT-11	MWT-3	SAMP. ID: ARD2173	TR2081	TR2087	TR2088	TR2082	
			SAMP. DEPTH TOP:	SAMP. DEPTH BOT:	SAMP. DATE	SAMP. DATE	SAMP. DATE	SAMP. DATE	SAMP. DATE	SAMP. DATE	SAMP. DATE	SAMP. DATE	SAMP. DATE	SAMP. DATE
			6.88	6.88	4/10/02	4/9/02	4/9/02	4/9/02	4/10/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02
			Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)
Carbon tetrachloride	5 UG/L	0.5 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
Chloroacetonitrile	UG/L	25 R	90 R	90 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R
Chlorobenzene	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorodibromomethane	80 UG/L	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
Chloroethane	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	7 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroprene	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,2-Dichloroethene	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cis-1,3-Dichloropropene	0.4 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichloromethyl methyl ketone	UG/L	25 R	90 R	90 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R
Ethyl benzene	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethyl ether	UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethyl methacrylate	UG/L	0.5 UJ	1.8 UJ	1.8 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Hexachlorobutadiene	0.5 UG/L	0.5 UJ	1.8 UJ	1.8 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Hexachloroethane	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isobutyl alcohol	UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropylbenzene	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Meta/Para Xylene	UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methacrylonitrile	5 UG/L	0.5 UJ	1.8 UJ	1.8 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Methyl 2-propenoate	UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Tertbutyl Ether	UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl bromide	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl butyl ketone	UG/L	2.5 UJ	9 UJ	9 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Methyl chloride	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl ethyl ketone	UG/L	5 R	18 R	18 R	5 R	5 R	5 R	5 R	5 R	5 R	5 R	5 R	5 R	5 R
Methyl iodide	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl isobutyl ketone	UG/L	2.5 U	9 U	9 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
Methyl methacrylate	50 UG/L	0.5 UJ	1.8 UJ	1.8 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Methylene bromide	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Naphthalene	UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nitrobenzene	0.4 UG/L	25 R	90 R	90 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R
Ortho Xylene	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Pentachloroethane	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Propionitrile	UG/L	25 R	90 R	90 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R	25 R
Propylbenzene	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5 UG/L	0.5 U	1.8 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrahydrofuran	UG/L	2.5 U	9 U	9 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

hade Indicates concentration above detection limit
 hnde 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)
			ASH LANDFILL MWT-1 GROUNDWATER TR2081	ASH LANDFILL MWT-10 GROUNDWATER TR2087	ASH LANDFILL MWT-11 GROUNDWATER TR2088	ASH LANDFILL MWT-3 GROUNDWATER TR2082				
Toluene	5 UG/L	UG/L	6.88	9.75	9.95	10	10	10	10	
Total Xylenes	5 UG/L	UG/L	6.88	9.75	9.95	10	10	10	10	
Total Xylenes-A		UG/L								
Total Xylenes-B		UG/L								
Trans-1,2-Dichloroethene	5 UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Trans-1,3-Dichloropropene	0.4 UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Trans-1,4-Dichloro-2-butene	UG/L	UG/L	0.5 UJ	1.8 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	
Trichloroethene	5 UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Trichlorofluoromethane	5 UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Vinyl acetate	UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Vinyl chloride	2 UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
cis-1,4-Dichloro-2-butene	UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
n-Butylbenzene	5 UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
p-Chlorotoluene	5 UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
p-Isopropyltoluene	5 UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
sec-Butylbenzene	5 UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
tert-Butylbenzene	5 UG/L	UG/L	0.5 U	1.8 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	

shade: Indicates concentration above detection limit
 shade: Indicates concentration above action level.

TABLE 3-3
 RESULTS OF VOC (METHOD 8242) 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		
			Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	Value (Q)	
1,1,1,2-Tetrachloroethane	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,1,1-Trichloroethane	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,1,2,2-Tetrachloroethane	UG/L	UG/L	1.8 U	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02		
1,1,2-Trichloro-1,2,2-Trifluoroethane	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,1,2-Trichloroethane	1 UG/L	UG/L	1.8 U	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02	4/9/02		
1,1-Dichloroethane	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,1-Dichloropropene	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,2,3-Trichlorobenzene	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,2,3-Trichloropropane	0.04 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,2,4-Trichlorobenzene	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,2,4-Trimethylbenzene	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,2-Dibromo-3-chloropropane	0.04 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,2-Dibromoethane	0.0006 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,2-Dichlorobenzene	3 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,2-Dichloroethane	0.6 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,2-Dichloroethene (total)	70 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,2-Dichloropropane	1 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,3,5-Trimethylbenzene	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,3-Dichlorobenzene	3 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,3-Dichloropropane	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,4-Dichlorobenzene	3 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
1,4-Dioxane	UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
2,2-Dichloropropane	UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
2-Chloroethylvinyl ether	UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
2-Chlorotoluene	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
2-Nitropropane	90 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
Acetone	UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
Acrolein	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
Acrylonitrile	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
Allyl chloride	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
Benzene	1 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
Bromobenzene	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
Bromochloromethane	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
Bromodichloromethane	80 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
Bromoform	80 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
Butyl chloride	5 UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		
Carbon disulfide	UG/L	UG/L	1.8 U	12.28	12.42	12.42	12.42	13.97	14.08	14.08	13.97	14.08	14.08	14.08	14.08		

made: Indicates concentration above detection limit
 made: 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-4		ASH LANDFILL MWT-6		ASH LANDFILL MWT-6		ASH LANDFILL MWT-7		ASH LANDFILL MWT-9	
			Value (Q)	Field QC Code	Value (Q)	Field QC Code	Value (Q)	Field QC Code	Value (Q)	Field QC Code	Value (Q)	Field QC Code
Carbon tetrachloride	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Chloroacetamide	90 R	UG/L	90 R	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Chlorobenzene	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Chlorodibromomethane	80 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Chloroethane	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Chloroform	7 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Chloroprene	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Cis-1,2-Dichloroethene	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Cis-1,3-Dichloropropene	0.4 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Dichlorodifluoromethane	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Dichloromethyl methyl ketone	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Ethyl ether	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Ethyl methacrylate	UG/L	UG/L	1.8 UJ	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Hexachlorobutadiene	0.5 UG/L	UG/L	1.8 UJ	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Hexachloroethane	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Isobutyl alcohol	UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Isopropylbenzene	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Meta/Para Xylene	UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methacrylonitrile	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methyl 2-propenoate	UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methyl Tertbutyl Ether	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methyl bromide	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methyl butyl ketone	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methyl chloride	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methyl ethyl ketone	UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methyl iodide	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methyl isobutyl ketone	UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methyl methacrylate	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methylene bromide	50 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Methylene chloride	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Naphthalene	UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Nitrobenzene	0.4 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Ortho Xylene	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Pentachloroethane	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Propionitrile	UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Propylbenzene	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Styrene	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Tetrachloroethene	5 UG/L	UG/L	1.8 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA
Tetrahydrofuran	UG/L	UG/L	9 U	SA	12.42	SA	12.42	SA	13.97	SA	14.08	SA

shade: Indicates concentration above detection limit
 :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-4		ASH LANDFILL MWT-6		ASH LANDFILL MWT-6		ASH LANDFILL MWT-7		ASH LANDFILL MWT-9	
			Value (Q)	Field QC Code	Value (Q)	Field QC Code	Value (Q)	Field QC Code	Value (Q)	Field QC Code	Value (Q)	Field QC Code
Toluene	5	UG/L	1.8 U		12.42	DU	12.42	SA	13.97	SA	14.08	
Total Xylenes	5	UG/L	1.8 U		12.42	DU	12.42	SA	13.97	SA	14.08	
Total Xylenes-A		UG/L										
Total Xylenes-B		UG/L										
Trans-1,2-Dichloroethene	5	UG/L	1.8 U		0.5 U		0.5 U		0.5 U		0.5 U	
Trans-1,3-Dichloropropene	0.4	UG/L	1.8 U		0.5 U		0.5 U		0.5 U		0.5 U	
Trans-1,4-Dichloro-2-butene		UG/L	1.8 U		0.5 UJ		0.5 UJ		0.5 UJ		0.5 UJ	
Trichloroethene	5	UG/L	1.8 U		0.5 U		0.5 U		0.5 U		0.5 U	
Trichlorofluoromethane	5	UG/L	1.8 U		0.5 U		0.5 U		0.5 U		0.5 U	
Vinyl acetate		UG/L										
Vinyl chloride	2	UG/L	1.8 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	1.8 U		0.5 U		0.5 U		0.5 U		0.5 U	
p-Chlorotoluene	5	UG/L	1.8 U		0.5 U		0.5 U		0.5 U		0.5 U	
p-Isopropyltoluene	5	UG/L	1.8 U		0.5 U		0.5 U		0.5 U		0.5 U	
sec-Butylbenzene	5	UG/L	1.8 U		0.5 U		0.5 U		0.5 U		0.5 U	
tert-Butylbenzene	5	UG/L	1.8 U		0.5 U		0.5 U		0.5 U		0.5 U	

made. Indicates concentration above detection limit made. 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	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	5	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	1.7 U	1.7 U
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	1 U	1.7 U	1.7 U
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	50	UG/L	R	85	R
2,2-Dichloropropane	1	UG/L	1 U	1.7 U	1.7 U

Location	Value (Q)	Value (Q)	Value (Q)
ASH LANDFILL MW-28 GROUNDWATER ARD2171	10.39	11.88	11.88
ASH LANDFILL PT-24 GROUNDWATER ARD2175	10.39	11.88	11.88
SA	4/8/02	4/9/02	4/9/02
DU			
SA			

Shade: Indicates concentration above detection limit.
 Shaded: 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	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-propanoate		UG/L			
Methyl Terbutyl 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

ASH LANDFILL MW-28 GROUNDWATER ARD2171	ASH LANDFILL PT-24 GROUNDWATER ARD2175	ASH LANDFILL PT-24 GROUNDWATER ARD2174
10.39 10.39 4/8/02	11.88 11.88 4/9/02	11.88 11.88 4/9/02
SA	DU	SA

Shade: Indicates concentration above detection limit.
 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 MW-28		ASH LANDFILL PT-24		ASH LANDFILL PT-24	
			ARD2171	ARD2175	ARD2175	ARD2174		
Pentachloroethane	5	UG/L						
Propionitrile		UG/L	4 R	6.8 R	6.8 R	6.8 R	6.8 R	
Propylbenzene	5	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
Styrene	5	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
Tetrachloroethene	5	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
Tetrahydrofuran		UG/L	14 U	24 U	24 U	24 U	24 U	
Toluene	5	UG/L	1 U	1.7 U	1.7 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	1.7 U	1.7 U	
Total Xylenes-B		UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
Trans-1,2-Dichloroethene	5	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
Trans-1,3-Dichloropropene	0.4	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
Trans-1,4-Dichloro-2-butene		UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
Trichloroethene		UG/L	16	1.7 U	1.7 U	1.7 U	1.7 U	
Trichlorofluoromethane	5	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
Vinyl acetate		UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
Vinyl chloride	2	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
cis-1,4-Dichloro-2-butene		UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
n-Butylbenzene	5	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
p-Chlorotoluene	5	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
p-Isopropyltoluene	5	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
sec-Butylbenzene	5	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	
tert-Butylbenzene	5	UG/L	1 U	1.7 U	1.7 U	1.7 U	1.7 U	

Shade: Indicates concentration above detection limit.

Shade: Indicates concentration above action level.