

APPENDIX 17-C
Supplemental Site Investigation Report

Supplemental Investigation

**Proposed Glenville Energy Park
300 Block - Scotia-Glenville Industrial Park
New York State Route 5
Town of Glenville, New York 12302**

Prepared for:
Glenville Energy Park, L.L.C.
165 Freemans Bridge Road
Glenville, New York 12302

Prepared by:
Earth Tech, Inc.
40 British American Boulevard
Latham, New York 12110

January 2002



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TABLE OF CONTENTS

Section	Page
1.0 INTRODUCTION.....	1-1
2.0 GEOPHYSICAL SURVEY	2-1
2.1 Geophysical Survey Objectives.....	2-1
2.2 Geophysical Survey Methodology.....	2-1
2.2.1 Electromagnetic Terrain Conductivity (EM-31).....	2-1
2.2.2 Ground-Penetrating Radar (GPR).....	2-3
2.3 Geophysical Survey Results	2-3
2.3.1 Electromagnetic Terrain Conductivity Results.....	2-3
2.3.2 GPR Results.....	2-3
3.0 SOIL GAS SURVEY	3-1
3.1 Soil Gas Survey Objectives	3-1
3.2 Soil Gas Survey Methodology.....	3-1
3.3 Soil Gas Survey Results.....	3-1
4.0 TEST PIT EXPLORATION.....	4-1
4.1 Test Pit Exploration Objectives.....	4-1
4.2 Test Pit Exploration Methodology.....	4-1
4.3 Test Pit Exploration Results	4-1
4.3.1 Soil Laboratory Analysis Results - VOCs.....	4-2
4.3.2 Soil Laboratory Analysis Results - SVOCs.....	4-2
4.3.3 Soil Laboratory Analysis Results - Pesticides/PCBs.....	4-2
4.3.4 Soil Laboratory Analysis Results – Metals and Inorganics.....	4-3
5.0 GROUNDWATER INVESTIGATION.....	5-1
5.1 Background and Objectives.....	5-1
5.2 Methodology.....	5-1
5.3 Results.....	5-3
5.3.1 Depth-Specific Sampling and Field Analysis.....	5-3
5.3.2 Monitoring Well Sampling and Analytical Data.....	5-4
6.0 DATA VALIDATION PROCEDURES	6-1
6.1 VOCs AND SVOCs.....	6-1
6.2 Pesticides/PCBs.....	6-1
6.3 Inorganics/Metals.....	6-2
7.0 CONCLUSIONS	7-1
8.0 REFERENCES	8-1

LIST OF TABLES

Table 1	Summary of Test Pit Soil Analytical Results – VOCs, SVOCs, and Pesticides/PCBs
Table 2	Summary of Test Pit Soil Analytical Results – Inorganic Analytes
Table 3	Summary of Groundwater Analytical Results – Portable GC – VOCs
Table 4	Summary of Groundwater Analytical Results – VOCs
Table 5	Summary of Trichloroethene Concentrations in Groundwater
Table 6	Summary of On-Site Recognized Environmental Conditions

LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Site Plan with Location of Sub-Blocks
Figure 3	Site Plan with Location of Monitoring Wells
Figure 4	Site Plan with Soil Gas Survey Results
Figure 5	Site Plan with Location of Test Pits
Figure 6	Groundwater Elevation Contour Map (June 21, 2001)
Figure 7	Groundwater Analytical Results - VOCs (June 20, 2001)
Figure 8	TCE Concentration Gradient in Monitoring Wells along the Approximate Axis of the Plume
Figure 9	TCE Concentrations along Axis of Plume (June 20, 2001)
Figure 10	TCE Concentrations along Eastern Project Site Boundary (June 20, 2001)

PLATES

Plate 1	Industrial Park Map
Plate 2	Supplemental Investigation - Location of Geophysical Survey and Monitoring Wells

LIST OF APPENDICES

Appendix A	Geophysical Survey Report (Hager-Richter Geoscience, Inc., August 2001)
Appendix B	Field Forms – Test Pit Logs and Monitoring Well Construction Details
Appendix C	Laboratory Analytical Reports with DUSRs (June 13, 2001 Test Pit Soil Sampling Event (Soil))
Appendix D	Laboratory Analytical Reports with DUSR (August 10, 2001 Test Pit Sampling Event (Soil))
Appendix E	Field Gas Chromatograph Results – June 13-14, 2001 Groundwater Sampling
Appendix F	Laboratory Analytical Results with DUSRs (June 20, 2001 Groundwater Sampling Event (Groundwater))

1.0 INTRODUCTION

This report presents the findings of a Supplemental Site Investigation (the Supplemental Investigation) performed by Earth Tech on behalf of Glenville Energy Park, LLC. (GEP) on portion of the 300 Block of the Scotia-Glenville Industrial Park (SGIP), town of Glenville, Schenectady County (the Project site) and on a portion of the adjacent 400 Block in the Scotia Depot.

The Project site is part of a larger area that was formerly a United States Navy supply depot. Portions of the area originally occupied by the supply depot have since been converted into two industrial parks, the SGIP, and Corporations Park, with a small area between (Scotia Depot) occupied and managed by the federal government. The Project site occupies 21.1 acres and contains no structures except for three concrete slabs and six lattice-type electric transmission towers. Figure 1 depicts the location of the Project site. The Project site is a relatively flat parcel and is shown on Figure 2 and Plate 1.

In January 2000, NYS DEC had requested that the United States General Services Administration (GSA) and Defense Logistics Agency (DLA) conduct soil and groundwater investigation on the Scotia Depot property to follow up on the discovery of TCE groundwater contamination extending up to the Scotia Depot property boundary on the 300 block of the SGIP. The GSA and DLA retained Parsons Engineering Science, Inc. (PES) of Liverpool, New York to undertake site investigation to assess whether an area upgradient of the Project site north of the 300 and 400 Blocks (the Sacandaga Road Landfill) was the source of the TCE groundwater plume, and to delineate the lateral and vertical extent of the plume within an area of the Depot.

PES' findings, presented in their August 2001 "Groundwater Investigation Report of the Scotia Depot", concluded that the Sacandaga Landfill was not "a major source of the TCE plume". In an effort to identify the source area location, PES developed a probabilistic groundwater model that incorporated a process referred to as "Monte Carlo Simulation". This model identified probable source locations, specifically a "cluster" of "high probability locations" between groundwater monitoring wells (MW) MW-99-15 and MW-13 (the locations of these monitoring wells are depicted on Figure 3). Since this location is on the Project site, and since this conclusion contradicted the findings of the Phase II Investigation, GEP directed Earth Tech to undertake additional investigative work, described in this Supplemental Investigation report, to confirm or refute this hypothesis.

The objectives for the Supplemental Investigation were as follows:

- Conduct further on-site and off-site geophysical surveys to augment Phase II findings (including application of a geophysical method to provide data near fence lines);
- Delineate the vertical dimension of the TCE groundwater contamination plume to better understand its three-dimensional extent;

- Continue the efforts to identify the source of the TCE groundwater contamination plume through direct exploration of the subsurface to confirm or deny the PES hypotheses regarding the inferred TCE plume source area;
- Confirm the conclusion of the Phase II Investigation Report that the presence of the TCE groundwater plume will not impede construction and operation of the Project; and
- Expand the investigative scope to two areas (Additional Acreage Area and Supplemental Area) previously not investigated as shown on Plate 1. The Additional Acreage Area, located in the 304 sub-Block and the Supplemental Area located in the 305 sub-Block and 306 sub-Block.

The efforts undertaken in the Earth Tech Supplemental Investigation are described in this report in accordance with the following outline:

- **Section 2** describes the rationale and technical approach for the supplemental geophysical survey work performed on the Project site and adjacent property on the Scotia Depot site, and presents a summary and interpretation of the resultant data.
- **Section 3** describes the rationale and methods used to conduct the supplemental soil gas survey on the Project site and presents the soil gas data.
- **Section 4** describes the rationale and technical approach for supplemental test pit exploration and collection and laboratory analysis of soil samples, and provides a summary of the observations and results.
- **Section 5** summarizes the rationale and technical approach for groundwater investigation through drilling and installation of groundwater monitoring wells and groundwater sampling and analysis.
- **Section 6** lists the procedures used for validation of laboratory analytical data.
- **Section 7** presents the conclusions of the Supplemental Investigation and their implications for site development for the proposed power plant project.
- **Section 8** lists the references used in the design, scoping, hypothesis generation, experimental plan, conduct of the work, and preparation of this report.

2.0 GEOPHYSICAL SURVEY

2.1 GEOPHYSICAL SURVEY OBJECTIVES

Earth Tech retained Hager-Richter Geoscience to perform electromagnetic (EM-31) and ground-penetrating radar (GPR) surveys on three target areas, described below and depicted on Plate 2 in this report and the plates in the Hager-Richter report in Appendix A.

In light of the Phase II Investigation conclusions regarding the likelihood of a potential upgradient, *off-site* source for the TCE plume (and the PES conclusions regarding the likelihood of an *on-site* source), further geophysical surveying was deemed necessary to refine knowledge of certain portions of the Project site and to evaluate off-site conditions in the 400-Block area. Permission for access to this area on the Scotia Depot property was obtained from the Department of Defense-Defense Logistics Agency/Defense National Stockpile Center (DoD-DLA/DNSC and is within Target Area 1, described below.

Target Area 1 is an irregularly-shaped rectilinear area that covered the northeastern portion of the Project site as well as areas to the east, northeast, and north on the Scotia Depot property. This area was of interest as the possible inferred location of the source of the TCE plume based on the Phase II Investigation findings. Target Area 2 is a rectangular area entirely within the Project site, covering much of the central portion of the site. The work in Target Area 2 was aimed at identification of the inferred TCE plume source, and also at confirmation that areas of planned construction excavation activity were free of contamination. Target Area 3 is roughly equivalent to the Additional Acreage Area of the Project site. It should be noted that the Additional Acreage Area contained three building slabs from former Buildings 304-A, 304-B, and 304-C which were razed by the landlord; the thickness of these slabs and their ferrous metal content (reinforcing bars) obscured the underlying soils from geophysical surveys. However, data was obtained from the portions of the Additional Acreage Area not covered by these slabs.

2.2 GEOPHYSICAL SURVEY METHODOLOGY

Two methods were selected to evaluate subsurface conditions: electromagnetic terrain conductivity surveying utilizing a Geonics EM-31 terrain conductivity meter, and ground-penetrating radar (GPR).

2.2.1 Electromagnetic Terrain Conductivity (EM-31)

The objective of the geophysical survey was to identify areas of the Project site and portion of the 400 Block that may have been disturbed or contained buried metal objects or other potential concerns.

A terrain conductivity survey of the site was conducted utilizing a Geonics EM-31 apparent terrain conductivity meter. The EM-31 is a remote sending device that consists of a control box (internal power supply, programming module, and datalogger), a low frequency electromagnetic (EM) wave transmitter and a receiver coil. The coils are separated by a 4-meter boom. This coil arrangement enables the equipment to reach a nominal depth of investigation of approximately 18 feet below ground surface.

The EM-31 is designed upon the principle that a secondary EM field can be induced in a conductive object when an EM field is applied. Variations in the transmitted frequency, amplitude, and phase of the EM signal detected by the receiver coil can be used to measure the apparent conductivity of the soils (the terms “apparent terrain conductivity”, “apparent conductivity”, and “terrain conductivity” are frequently used synonymously and interchangeable by different authors). The instrument detects and measures the variations caused by the induced secondary EM field and converts these measurements into a conductivity value expressed as millmhos per meter (mho = 1/ohm) (mmhos/m).

The instrument also detects and measures the phase shift between the primary magnetic field of the object caused by the magnetic field of the Earth and induced secondary magnetic field caused by the transmitter on the EM-31. The “in-phase component” represents that portion of the induced secondary magnetic field that is aligned with the primary field. Since metal objects are highly conductive, they can be readily detected using the so-called “in-phase” component measurement, which is measured in parts per thousand (ppt).

This survey method operates on the principle that metallic objects generate EM response fields when subjected to an EM signal and that these EM response fields are measurably different from the EM response field generated by the soil. Using this principle, it is possible to identify “geophysical anomalies”, areas where the EM response field is notable different from the surrounding “background”.

Geophysical anomalies may or may not represent an environmental concern and additional investigation is needed to identify the source of the anomaly and to evaluate the potential for environmental impacts. Intrusive methods of testing (for example, test pit exploration) are needed to identify the material or object that is causing the geophysical anomaly. As such, geophysical survey methods are used as a screening tool to identify features that can subsequently be investigated and characterized through direct means. In the case of this Phase II investigation, the geophysical survey work was used to support selection of locations for test pit exploration, as discussed in Section 5 of this report.

It should be noted that above ground metal objects (for example, fences, rail lines, and vehicles, as well as surface metallic debris) can mask the electromagnetic signatures of deeper buried metal features. In such circumstances, the actual depth of investigation is significantly less than the nominal 18-foot value.

This section describes the performance of the geophysical survey at the Project site and surrounding area. Further details may be found in the Hager-Richter Geoscience report presented as Appendix B of this report.

The primary survey transect lines were spaced 10 feet apart. Terrain conductivity measurements were taken at approximately two-foot intervals along these primary lines. The Geonics EM-31 instrument consists of two coils that are separated by 12 feet; this array enabled the survey to reach a nominal depth of investigation of approximately 18 feet below ground surface. This configuration was designed to be sufficiently sensitive to allow for detection of an individual 55-gallon drum or drum remnant at the target depth range.

The survey was performed by taking measurements along the previously established transects. These measurements were recorded in the instrument's data logger from which they were later downloaded to a personal computer for display and interpretation, as described in Appendix B. Since outside forces (such as diurnal and day to day shifts in the earth's magnetic field) can also influence electromagnetic measurements, the survey procedure included re-measurement of apparent conductivity values along a baseline transect each day to check for instrument drift and allow for adjustment of the data, as described in Appendix B.

2.2.2 Ground-Penetrating Radar (GPR)

GPR operates on the principle that differences in the electrical properties (e.g., dielectric constant) of subsurface materials can be discerned from the ground surface, by transmitting electromagnetic signals into the ground and measuring their amplified reflections. A GPR antenna is moved across the ground surface along pre-established transects, and a GPR receiver measures and records the reflected radar signals, which are stored in the instrument's data logger unit for subsequent downloading to a computer, printing, and interpretation.

In addition to being able to discern metallic targets such as buried drums and tanks, GPR can also detect contrasts in subsurface materials, such as differences between native soils and in-filled trenches. As utilized in this Supplemental Investigation, the GPR method was designed to target a depth range of 10 to 14 feet. The primary survey transect lines were spaced 10 feet apart. Since the Earth Tech Phase I ESA identified potential indicators of soil disturbance (e.g., differences in vegetation type and density), GPR was considered an appropriate companion technique to help corroborate and augment the findings of the EM-31 surveys, especially close to the property line fences, since surface metal present in the fences interfered with the EM-31 survey, but not with the GPR.

2.3 GEOPHYSICAL SURVEY RESULTS

This section summarizes the key geophysical survey findings with further discussion presented in the Hager-Richter report in Appendix A.

2.3.1 Electromagnetic Terrain Conductivity Results

Several areas of the Project site were found to exhibit slightly anomalous apparent conductivity values, the majority of which could be correlated to the presence of surface metal or underground utilities. No significant new anomalies were identified during the Supplemental Investigation EM-31 survey that would warrant concern from an environmental perspective. As discussed in Section 4 of this report, the areas of minor anomalies not correlated with known or inferred surface or subsurface features were further evaluated through test pit exploration.

2.3.2 GPR Results

No significant GPR anomalies were identified in any of the Target Areas. This finding is helpful in corroborating the findings of the EM-31 survey work described in Section 2.3.1 above.

3.0 SOIL GAS SURVEY

3.1 SOIL GAS SURVEY OBJECTIVES

Soil gas testing had been performed on the majority of the Project site during the Phase II Investigation.

Soil gas testing is based upon the premise that volatile organic compounds (VOCs) that may be present in subsurface soil and/or groundwater tend to rise within the soil column as a function of molecular weight and vapor pressure. Probes are inserted into the subsurface and a sample of the gases between the soil grains is withdrawn and chemically screened for the presence of VOCs. Since groundwater beneath the Project site is encountered at a depth in excess of 60 feet, soil gas testing was not expected to provide insights into the presence of groundwater contamination. The primary focus was to search for shallower VOC targets such as areas of buried hazardous wastes or contaminated soils that could represent potential sources of groundwater contamination or interfere with construction in areas to be excavated for foundations or site utilities.

3.2 SOIL GAS SURVEY METHODOLOGY

Soil gas testing was performed on the Additional-Acreage Area and Supplemental Area at 12 locations depicted on Figure 4. At each location, a hole was advanced to a depth of three feet, and an aluminum soil gas sampling probe (open at the bottom) was installed temporarily in the hole and tamped to ensure that the surrounding soil settled against the probe in order to avoid "short circuiting" of atmospheric air down the outside of the probe as the soil gas sample was withdrawn. Soil vapor was then extracted from the probe using a personal air monitoring pump calibrated to a 1 liter/minute flow rate to pump the soil gas into a Tedlar bag, from which it was screened on-site for the presence of VOCs utilizing a photoionization detector (PID) with a 10.2 electron volt (eV) lamp. The PID was calibrated prior to use, during the soil gas survey (i.e., field check), and after use to ensure its responsiveness to VOCs in the soil gas samples within the range of the 10.2 eV lamp. The PID readings measures total VOCs and does not identify or quantify the concentration of individual compounds. A detection limit of 0.1 part per million (ppm) total VOCs in the Tedlar bag samples was targeted for this survey.

3.3 SOIL GAS SURVEY RESULTS

No VOCs were detected at any of the twelve sampled locations. These results suggest that the areas do not appear to contain a significant shallow VOC contamination source.

4.0 TEST PIT EXPLORATION

4.1 TEST PIT EXPLORATION OBJECTIVES

Test pit exploration was performed to directly examine, sample, and test subsurface areas in the Additional Acreage Area, Supplemental Area, and areas of suspicion based on geophysical surveys. Seven test pits designated TP-01-1 through TP-01-7 were excavated in the northeastern portion of the Project site to follow up on EM-31 geophysical anomalies. This area had also been identified by PES as a high-probability location of an on-site source for the TCE plume as described in Section 1 of this report. An additional ten test pits designated TP-01-TH through TP-10-TH were excavated on the Additional Acreage Area. An additional five test pits designated TP-11-TH through TP-15-TH were excavated on the Supplemental Area. These 22 test pit locations are shown on Figure 5.

4.2 TEST PIT EXPLORATION METHODOLOGY

The test pits were excavated by MC Environmental Services, Inc. under the direction of an Earth Tech hydrogeologist who logged the test pit contents and classified the soils in accordance with the Modified Burmister Soil Classification System and the Unified Soil Classification System. The Earth Tech hydrogeologist also selected test pit soil sampling locations for field chemical screening and laboratory analysis. The information obtained from these activities was transcribed to test pit logs, which are presented in Appendix B of this report. Once samples had been collected and observations completed, each test pit was backfilled with the excavated soils, which were then compacted to return the site grades to preexisting conditions.

Soil samples for laboratory analysis were collected from 8 of the 22 test pits. Selection of test pits and depths of samples was based upon visual observations and field chemical screening. Soil samples collected by Earth Tech were submitted to Adirondack Environmental Services (AES) for analysis of VOCs, (Method 8260). To maintain comparability with the original NYS DEC investigation plan of study for the overall Naval Supply Depot, AES was tasked with analysis of semi-volatile organic compounds (SVOCs) (Method 8270), pesticides/ polychlorinated biphenyls (PCBs) (Method 8082), and Metals. AES is an analytical laboratory approved by the New York State Department of Health (NYS DOH) to provide Analytical Services Protocol (ASP) Category B deliverables. Table 1 summarizes the sample locations, depth, and laboratory results for VOCs, SVOCs, and Pesticides/PCBs, and Table 2 summarizes the sample results for the metals and asbestos.

4.3 TEST PIT EXPLORATION RESULTS

None of the test pits encountered any subsurface structures, features, or objects suggestive of environmental concerns. All of the test pits encountered glacial outwash materials; in three of the test pits from the Additional Acreage Area (TP-01-TH, TP-06-TH, and TP-09-TH), and one test pit in the northeastern area of the site (TP-01-01), soil fill material was encountered overlying the glacial outwash. The only exception to this pattern was noted in TP-01-2, which encountered more fine-grained native soils consisting of silt or clayey silt as opposed to the coarser-grained glacial outwash encountered in the other test pits.

None of the exposed test pit soils displayed overt evidence of contamination or significantly elevated field chemical screening results, although a 4.1- to 4.6-foot deep soil sample from TP-05-TH in the Additional Acreage Area yielded a PID reading of up to 301 ppm; this soil was from a visibly stained horizon where an odor of diesel fuel was noted. The sample was collected from a location believed to be the site of a former underground storage tank (UST) that is no longer present. This UST may have been among the 11 USTs reportedly removed by Environmental Oil, Inc. on behalf of the landlord, as described in the Earth Tech Phase I ESA. It should be noted that this sample appears to represent a narrow horizon, since the soil samples collected above and below this horizon yielded “non-detect” PID readings.

4.3.1 Soil Laboratory Analysis Results - VOCs

Earth Tech’s selection of soil samples for VOC laboratory analysis was based primarily on field VOC screening results. Eight soil samples (five from the northeastern portion of the Project site and three from Additional Acreage Area) were analyzed for VOCs. None of these eight samples were found to contain detectable concentrations of VOCs. Table 1 presents the results for the laboratory analysis for VOCs in the soil samples collected by Earth Tech, with the supporting data presented in Appendix C. It should be noted that all of Earth Tech’s laboratory analytical data has been subjected to a rigorous data validation process such that the reported results can be considered representative of conditions in the locations sampled. This validation process is discussed in detail in Section 6 of this report. In summary, the laboratory data provides no indication of an on-site VOC contamination source area in the locations explored.

4.3.2 Soil Laboratory Analysis Results - SVOCs

Earth Tech submitted eight test pit soil samples for SVOC analysis (five from the northeastern portion of the Project site and three from the Additional Acreage Area). Of these eight samples, three were found to contain detectable concentrations of SVOCs, with two samples from the Additional Acreage Area containing SVOC concentrations in excess of the New York State Recommended Soil Cleanup Objectives (RSCOs) set forth in Division Technical and Administrative Guidance Memorandum 4046: Proposed Determination of Soil Cleanup Objectives and Cleanup Levels (1994).

The SVOC data is presented on Table 1 and supporting information is presented in Appendix C. The detected SVOCs were all polynuclear aromatic hydrocarbons (PAHs) and were found primarily in the sample from TP-09-TH (0 to 2-foot depth) on the Additional Acreage Area. Since these PAHs were not detected at elevated concentrations in the other samples from the Additional Acreage Area, the test pit soil results indicate that PAH soil contamination in the Additional Acreage Area is limited.

4.3.3 Soil Laboratory Analysis Results - Pesticides/PCBs

Earth Tech submitted six test pit soil samples for Pesticide/PCB analysis (three from the northeastern portion of the Project site and three from the Additional Acreage Area). Results for these samples are presented on Table 1 with the supporting data presented in Appendix C. No pesticides were detected in the samples from the northeastern portion of the Project site. Trace concentrations of 4,4'-DDE and 4,4'-DDT were detected in two of the August 10, 2001 samples. In the third sample, which was collected

from test pit TP-06-TH at a depth of 0 to 2 feet, 4,4'-DDT was detected at 880,000 parts per billion (ppb), significantly above its 2100-ppb RSCO. This elevated concentration appears to represent localized pesticide contamination, since 4,4'-DDT concentrations in the other two soil samples were at trace concentrations.

Earth Tech submitted samples from these same six locations for PCB analysis. Data for the PCB analyses is presented on Table 1 and in Appendix C. As shown on the table, none of these samples were found to contain PCBs.

4.3.4 Soil Laboratory Analysis Results – Metals and Inorganics

Earth Tech submitted six test pit soil samples (three each from the northeastern portion of the Project site and the Additional Acreage Area) for metals analysis. The results of the metals analysis are summarized in Table 2 with the data presented in Appendix C. In evaluating soil data for metals, it should be noted that many of these metals are naturally occurring in soils and that their detection in soil samples is not necessarily indicative of contamination. In order to put the soil data into perspective, detected concentrations have been compared to three “benchmarks”.

The first is the NYS DEC Recommended Soil Cleanup Objectives (RSCOs), which are generic soil cleanup thresholds used by the NYS DEC’s Division of Environmental Remediation. According to the NYS DEC’s Technical and Administrative Guidance Memorandum (TAGM) # 4046, “attainment of these generic soil cleanup objectives will, at a minimum, eliminate all significant threats to human health and/or the environment...”. In practice, these RSCOs are also used to determine whether a particular concentration triggers a need for possible remedial action. The RSCOs are based on average background concentrations as reported in a 1984 survey of reference material by NYS DEC, by site background (SB) concentrations, or by both. It is noted by NYS DEC that background levels may vary widely for some constituents.

The second benchmark, which is also included in TAGM 4046, is a list of typical naturally occurring background concentrations for heavy metals that are found in Eastern USA soils. Most, but not all of the 23 Target Analyte List (TAL) metals analyzed, are included in this list.

The third benchmark is a commonly referenced data set on Eastern United States background soil concentrations contained in the USGS Professional Paper 1270 entitled “Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States” by Shacklette and Boerngen, 1984. This reference presents a summary of average and observed ranges of concentrations for many metals for conterminous, Western and Eastern U.S. (used herein). This reference is cited as a source of background values by NYS DEC in its May, 2001 “Final Report of the Human Health Work Group of the New York State Department of Environmental Conservation, Comparative Risk Project” and is thus also relevant for this evaluation of metals soil data.

In the Supplemental Investigation, six soil samples were submitted for metals analysis. Three soil samples, collected from test pits TP-01-01, TP-01-03, and TP-01-07, were submitted for TAL Metals

analysis while the other three soil samples (TP-05-TH, TP-06-TH, and TP-09-TH) were submitted for RCRA 8 metals analysis. Each of 23 metals on the TAL list was detected, except thallium. Thirteen of these metals have numerical New York State Recommended Soil Cleanup Objectives (RSCO) values while ten have RSCOs of "Site Background" (SB). Of the thirteen metals having numerical RSCOs, seven were present below the applicable RSCO in all cases and are therefore not considered to pose any site environmental concern. These seven metals were: barium, beryllium, cobalt, copper, nickel, selenium, and vanadium. The remaining six metals (arsenic, cadmium, chromium, iron, mercury, and zinc) were detected at a concentration in excess of the applicable RSCO in at least one soil sample. Each of these were therefore compared to two "benchmarks", the background concentrations of soils in the Eastern USA published by NYS DEC and the background concentrations of soils in the eastern United States published by the United States Geological Survey (USGS) to determine whether they warrant concern from an environmental perspective. This comparison was also made for the other metals having RSCOs of SB that were detected. These metals include: aluminum, antimony, calcium, lead, magnesium, manganese, potassium, silver, and sodium

Of the six metals that exceeded their applicable numerical RSCO values (arsenic, cadmium, chromium, iron, mercury, and zinc), only arsenic, cadmium, and mercury exceeded the Eastern USA or USGS background values. Therefore, these three metals not exceeding background are not considered indicative of pervasive site contamination. The arsenic, cadmium, and mercury exceedances of the Eastern USA and the USGS background values were in one near-surface soil sample (TP-06-TH (0-2')), which is located between two former buildings (Building 304-B and 304-C) in the Additional Acreage Area. These exceedances appear to be isolated detections rather than an indicator of pervasive contamination.

All of the metals with RSCOs of SB, except for calcium and magnesium, were less than the applicable background concentrations. While calcium and magnesium concentrations exceeded USGS background ranges in one or more samples, their concentrations are generally attributable to local natural geologic conditions.

Each of the metals that may have exceeded a numeric RSCO, or that relies on Site Background as a cleanup level, and that exceeded their respective Eastern USA background values, is discussed below.

- **Arsenic** was detected above its numeric RSCO of 7.5 ppm in one of the six samples analyzed. This sample was collected from the upper two feet of soil at test pit TP-06-TH in the Additional Acreage Area. The detected concentration is above all three benchmarks, the RSCO, the upper end of Eastern USA values and the 73 ppm upper end of the USGS observed range for arsenic in soils. Elevated levels of arsenic have been observed previously elsewhere at the Depot. A concentration of 117 ppm was reported at the Scotia Navy Depot, Building #15 area, in NYSDEC's Preliminary Site Assessment Investigation Report, December 1999. Arsenic is a common constituent of insecticides, herbicides, and rodenticides. Since the sample in the Additional Acreage Area was collected near the ground surface, and since the deeper samples do not reflect arsenic concentrations above the RSCO, Earth Tech concludes that this result is an isolated occurrence and is not indicative of pervasive site soil contamination. However, it may be indicative of a localized impact that may be manifested elsewhere at the Depot.

- **Cadmium** was detected above its numeric RSCO of 1 ppm in one sample. This was the only detection of cadmium in the six samples analyzed. This sample was collected from the upper two feet of soil in TP-06-TH in the Additional Acreage Area. The detected concentration is above the 1 ppm upper end of the Eastern USA background values; cadmium is not included in the USGS list of observed background values for soil. Earth Tech concludes that this result is an isolated occurrence and is not indicative of pervasive site soil contamination.
- **Calcium** does not have a numeric RSCO. It was detected above the 35,000 ppm upper end of the typical Eastern USA background range in the three samples analyzed. It should be noted, however, that calcium is typically found at concentrations exceeding this background range in glacial outwash in this area, since much of the parent material was limestone, which is calcium carbonate. Calcium is not considered a site soil contaminant or environmental concern. This is further underscored by the fact that the NYS DEC RSCO for calcium is "site background" (SB) rather than a numerical value.
- **Magnesium** does not have a numeric RSCO. It was detected slightly above the 5,000 ppm upper end of the Eastern USA background range but below the 50,000 ppm upper end of the USGS observed range for magnesium in soil. Furthermore, the presence of magnesium, like calcium, in glacial outwash deposits in this region is likely a reflection of the geochemistry of the parent material (for example, dolomite). Earth Tech concludes that magnesium is not a site soil contaminant or a site environmental concern.
- **Mercury** was detected above its numeric RSCO of 0.1 ppm in three of the six samples analyzed. These three test pit soil samples were collected in the Additional Acreage Area. Two of the three concentrations are below the upper end of the Eastern USA background range and the third result is below the 3.4 ppm upper end of the USGS observed range for mercury in soil. Earth Tech concludes that mercury is not a significant or pervasive site soil contaminant or environmental concern.

As part of the test pit exploration work on the Additional Acreage Area, Earth Tech also collected three surficial soil samples to be analyzed for the presence of asbestos by polarized light microscopy. The results of the metals analysis are summarized in Table 2 with the data presented in Appendix D. These samples, designated A-1, A-2, and A-3, were collected in proximity to the former Quonset huts that were razed by the landlord, leaving the slabs that were present at the time of the Supplemental Investigation. None of these three samples was found to contain asbestos (Table 2 and Appendix D).

In summary, none of these analyses suggested the presence of significant site contamination. The metals and asbestos data, combined with the results for VOCs, SVOCs, and pesticides/PCBs, confirms that the test pit sampling program did not encounter significant pervasive contamination in near surface and subsurface soils in the areas explored.

5.0 GROUNDWATER INVESTIGATION

5.1 Background and Objectives

As described in Section 1 of this report, ongoing investigations by PES in the Project site area concluded that there was a high probability that the source area for the TCE plume could be located on or beneath the Project site in the area between MW-13 and the eastern property line. While none of Earth Tech's investigative efforts during the Phase II Investigation or prior tasks of this Supplemental Investigation supported this hypothesis, further groundwater investigation was undertaken to resolve this issue. The Supplemental Investigation groundwater exploration program focused upon the area between existing monitoring wells MW-13 and MW-99-15 (depicted on Figure-3) in the northeastern portion of the site close to the site boundary, and also on the area upgradient of MW-99-15. While this area had yielded the highest TCE concentrations in groundwater from prior monitoring well sampling and contained two of the EM-31 geophysical survey anomalies identified in the Phase II Investigation, it was not found to contain indications of contamination based upon the soil gas sampling and test pit exploration work.

The overall objectives of the groundwater investigation work described below were (1) to follow the increasing TCE concentration gradient towards the inferred source of the plume in the vicinity of (or beyond) the northeastern site boundary where the highest TCE concentrations had been previously detected; (2) to help define the plume configuration, and; (3) to provide additional information on the source location.

5.2 Methodology

Earth Tech retained Parratt-Wolff, Inc. of East Syracuse, New York to drill four overburden borings and install four monitoring wells, designated GEP-1 through GEP-4, at locations depicted on Figure 3 and Plate 2. Well construction logs are presented in Appendix B. An Earth Tech hydrogeologist provided on-site direction of the drilling and monitoring well construction work and conducted field chemical screening of soil cuttings from the auger flights during drilling.

The borings were advanced using a high-torque CME-75 truck-mounted drilling rig equipped with 4.25-inch inner diameter (ID) hollow stem augers. This allowed the drilling to proceed without the need to introduce wash water. All drilling tools and downhole equipment were steam cleaned prior to their first use and between drilling locations using a steam pressure washer to guard against cross-contamination. Water used in the cleaning process was obtained from a potable municipal water source.

Each of the new overburden monitoring wells was constructed in accordance with the procedures that had been used for the 1995 and 1997 NYS DEC well installation to ensure that groundwater monitoring data from the collective set of wells would target a comparable zone of the saturated overburden. Each monitoring well was constructed when the hollow-stem augers had reached the target depth. The monitoring well screens consisted of 2-inch ID, Schedule 40, machine-slotted polyvinyl chloride (PVC) with 0.010-inch slots. All four of the monitoring wells were equipped with 15-foot length screens, which were connected to the solid, Schedule 40 PVC risers with flush-threaded joints to avoid the introduction

of any chemical cements. The end of each well screen was fitted with a threaded bottom plug, while the top of the riser was fitted with a vented cap.

The screen and riser were placed down the borehole inside the hollow-stem augers, which were then withdrawn as clean, graded, silica sand was poured inside the augers to fill the annular space between the well screen/riser and the borehole wall. This sand pack extended to at least two feet above the top of the well screen, above which bentonite pellets were placed to a minimum vertical thickness of three feet. Potable water was added to these pellets to form a hydrated bentonite seal. The remainder of the annular space above the bentonite seal was backfilled with cement-bentonite grout mix consisting of Type I Portland cement mixed with bentonite powder. This grout was introduced down the borehole under pressure using a tremie pipe, with the remaining auger flights gradually withdrawn. A permanent measuring point was notched into the top of the PVC riser, which was protected by installing a lockable security casing to prevent unauthorized access or vandalism. The monitoring well number was clearly labeled on the outside of each security casing.

Each newly constructed monitoring well was then developed. Well development is a process of pumping or surging designed to remove residual silt and clay particles (fines) from the surrounding overburden to prevent groundwater sample turbidity and potential matrix interference that could affect sample analytical data. Well development also improves the hydraulic communication between the monitoring well and the surrounding formation, increasing the reliability and representativeness of subsequent groundwater monitoring data. Well development was conducted using a WaTerra™ inertial pump. For each well, a new, dedicated length of high-density polyethylene (HDPE) tubing was equipped with a check valve at the base was lowered into the near-bottom of the well and repeatedly raised and lowered so that the water within the tube would be discharged at the ground surface. In addition to purging standing water from the well, this process also created a surging mechanism that was intended to loosen fines from the sand pack around the well screen. This process was continued until the turbidity of the discharged groundwater achieved or approached the goal of 50 nephelometric units (NTU). An Earth Tech hydrogeologist measured and recorded data on temperature, pH, specific conductance, and turbidity throughout the development process to confirm that sufficient development had taken place.

The as-built locations and elevations of the new groundwater monitoring wells (and all of the other Supplemental Investigation sampling points) were surveyed by C.T. Male Associates, PC of Latham, New York, and referenced to the National Geodetic Vertical Datum (NGVD) of 1929 for incorporation onto the Earth Tech project base map. For each new monitoring well, the top of the PVC riser pipe (water level measurement point, or MP) and top-of-casing (TOC) were surveyed to the nearest 0.01 foot above mean sea level (amsl) elevation. The ground surface elevations were also surveyed to the nearest 0.1-foot amsl.

Groundwater elevations for the newly installed monitoring wells and existing monitoring wells in the vicinity were measured on June 21, 2001. This data was used to determine groundwater elevations, gradients, and flow directions, as depicted on Figure 6.

On June 13 and 14, 2001, Earth Tech collected groundwater samples from four of the newly-installed groundwater monitoring wells (GEP-1, GEP-2, GEP-3, and GEP-4) and existing monitoring wells MW-13, MW-99-14, and MW-99-15 for on-site analysis for TCE, tetrachloroethylene (PCE), 1,1,1-trichloroethane (TCA), and dichloroethylene (DCE) using an HNu 311 portable gas chromatograph (GC) with a PID detector for near-real-time data. A portion of two groundwater samples analyzed in the field were sent to AES for laboratory analysis as a quality assurance/quality control (QA/QC) check to provide corroboration of the field GC data.

In order to develop an understanding of the vertical stratification (if any) of the TCE plume, samples were collected on June 13 and 14, 2001 from each well using a depth-specific Kemmerer sampler to sample three depths: the water table, the top of the well screen, and the bottom of the well screen. Each sample was analyzed in the field on the portable GC.

On June 20, 2001, Earth Tech collected groundwater samples from ten groundwater monitoring wells: MW-6, MW-7, MW-13, MW-99-14, MW-99-15, MW-99-16, and GEP-1 through GEP-4). On June 21, 2001, Earth Tech measured a synoptic round (i.e., within 4 hours of each other) of water level elevations for the Project site and vicinity. The locations of these monitoring wells are depicted on Figures 3, Figure 6, and Plate 2. Each well was purged of standing water, allowed to recharge, and sampled using a dedicated bailer. The groundwater samples were submitted to AES for laboratory analysis of VOCs by ASP 95-1 with Category B deliverables.

5.3 Results

The groundwater analytical data are presented on Table 3 (field GC data) and Table 4 (AES laboratory analytical data) and supporting information is provided in Appendices E and F. A summary of trichloroethene concentrations in groundwater is provided in Table 5. This spreadsheet summarizes historical TCE concentrations in groundwater and compares them to groundwater analytical data generated from the Supplemental Investigation.

5.3.1 Depth-Specific Sampling and Field Analysis

As can be seen in comparing the results on Tables 3 and 4 and Figure 8, the field GC results were very consistent with laboratory analytical results, confirming that the field GC was reliable for use in this investigation. The depth-specific sampling and field analysis did not reveal evidence of a distinct vertical stratification of the TCE plume, since the TCE concentrations were not markedly different between the different depth intervals within the same well. The lack of distinct vertical stratification of TCE concentrations in the plume may be a function of the high permeability of the glacial outwash sands and gravel. This high permeability could facilitate groundwater (and contaminant) mixing within the water column, thereby obscuring stratification trends.

However, there is evidence that the most significant impacts appear to be at the top of the aquifer (i.e., upper 15 to 20 feet). Groundwater sampling of well pair MW-6/MW-9 was conducted on three separate occasions: October 1995, February 1997, and November 8, 1999. The vertical separation between

screens for these two monitoring wells is approximately 41.5 feet. While the TCE concentrations in well MW-6, which is set in the upper portion of the aquifer and is screened from 58.5 to 68.5 feet, ranged from 65 µg/l to 140 µg/l, no TCE was detected in the deeper well, MW-9, which is screened from 110 feet to 120 feet.

5.3.2 Monitoring Well Sampling and Analytical Data

As shown on Table 4 and displayed on Figures 7, 9 and 10, TCE concentrations in groundwater from the June 2001 sampling of new and existing monitoring wells ranged from non-detect (ND) to 880 ppb as determined by laboratory analysis. The TCE concentration was determined to be as high as 1,144 µg/l (ppb) in a June 14, 2001 groundwater sample collected from the top of well screen at monitoring well GEP-2 during the field monitoring program. The highest concentrations of TCE (i.e., in the hundreds of ppb) were detected in samples from the newly installed GEP-1 through GEP-4 and existing monitoring wells MW-13 and MW-99-15. TCE concentrations in six of the eight wells sampled were in excess of the 5 ppb New York State Ambient Water Quality Standard for TCE.

The additional data points showing the horizontal distribution of TCE concentrations defines a TCE plume axis that is oriented from northeast to southwest along the line from GEP-2 (on the site boundary) to GEP-1 and MW-6, not from MW-99-15 to MW-13 and MW-6 as postulated in the Earth Tech Phase II investigation report based on the TCE concentration data then available. If the upgradient end of this TCE plume axis were extended, it would point to an off-site source location to the east-northeast of monitoring well GEP-2. GEP-2 is located approximately 3.5 feet from the eastern property, which is also hydraulically upgradient of well MW-13. These data cast doubt upon the Parsons hypothesis of an on-site source. This off-site source location hypothesis is also borne out by the distribution of TCE concentrations. Figure 7 confirms that TCE concentrations increase as one moves in an upgradient direction from MW-6 (58 ppb) to GEP-1 (350 ppb) to GEP-2 (880 ppb). Figures 9 and 10 show additional illustration of the levels of increasing TCE concentrations in the upgradient direction. Thus, it would be expected that higher TCE concentrations could be found if monitoring wells were installed off site on the Depot property further upgradient.

Concentrations of TCA ranged from 7 ppb estimated to 57 ppb, exceeding the 5 ppb New York State Ambient Water Quality Standard for TCA in four of the eight wells sampled. The concentration data do not provide clear evidence of a distinct source for the TCA, but the differing ratios of TCA and TCE in the monitoring wells suggest that the TCA and TCE sources may be separate and distinct. No other VOCs were detected in any of these samples, confirming that TCE is the principal component of this plume.

6.0 DATA VALIDATION PROCEDURES

As noted in Sections 4 and 5 of this report, Earth Tech's analytical data for soils and groundwater were subjected to rigorous data validation procedures to ensure that the data could be relied upon for site characterization. This data validation process was carried out by Earth Tech personnel and consisted, at a minimum, of a Contract Laboratory Program (CLP) Category B "equivalent" deliverable for test pit soil samples and groundwater samples. A minimum of 20 percent of the data from each sampling event was validated, and a data usability analysis was performed on 100 percent of the data. If no problems were found, the validation process was considered complete for the data package; if problems were found, additional data was validated using the same steps.

The following documents were utilized in the data validation process:

- U.S. EPA Contract Laboratory Program for Inorganic Data Review, EPA-540/R-94/01, February 1994;
- U.S. EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review, EPA 540/R-94/012, February 1994; and
- U.S. EPA Region II Inorganic and Organic Data Validation Checklists.

The data validation included review and evaluation of all laboratory deliverables. The basic review covered sample request forms, chain-of-custody forms, methodology summaries, laboratory chronicles, and items listed below for each applicable parameter group.

6.1 VOCs AND SVOCs

- Deliverable requirements;
- Case narrative;
- Holding times;
- Surrogate recoveries and summary;
- Method blank summary and data;
- Gas chromatograph/mass spectrometry (GC/MS) tuning and mass calibration;
- Organic analysis data sheets (Form 1);
- Quantitation reports;
- Mass spectral data;
- Mass spectral library search for tentatively identified compounds (TICs);
- Initial calibration data;
- Continuing calibration data; and
- Internal standard areas and retention times.

6.2 Pesticides/PCBs

- Deliverable requirements;
- Case narrative;

- Holding times and sample preparation;
- Surrogate recoveries and summary (Form 2);
- Matrix spike blank/matrix spike/matrix spike duplicate recoveries and summary (Form 3);
- Instrument and method blanks and summary (Form 4C);
- Pesticide initial calibration;
- Pesticide analyte resolution check summary (Form 6G) and data;
- Pesticide calibration verification summaries (Form 7D and 7E) and data;
- Pesticide analytical sequence (Form 8D) and data;
- Pesticide clean-up procedure QA/QC (Forms 9A and 9B0);
- Pesticide identification and summaries of single- and multi-component analytes (Forms 10A and 10B); and
- Pesticide analysis data sheet (Form 1D) and data.

6.3 Inorganics/Metals

- Case narrative;
- Deliverable requirements;
- Holding times and sample preparation;
- Instrument calibrations;
- Inductively coupled plasma (ICP) interference check samples;
- Matrix spike recoveries;
- Duplicate sample analyses;
- Laboratory control samples;
- ICP serial dilution data;
- Furnace atomic absorption (AA) QC;
- Contract required detection limit (CRDL) standard for AA and ICP; and
- Method of standard additions.

The data validator's reports for the test pit soil samples are provided in Appendices C and D, while the reports for the groundwater sampling rounds are provided in Appendix F.

7.0 CONCLUSIONS

Earth Tech's Supplemental Investigation led to the following conclusions:

- The only remaining REC for the Project site is the previously documented VOC-impacted groundwater plume consisting principally of dissolved-phase TCE at field concentrations up to 1,144 ppb along the east-northeastern property boundary. These greatest concentrations of TCE were observed along the eastern property boundary in the upgradient most portion of the Project site. These results are not considered reflective of an on-site VOC source area, but rather of a zone of groundwater contamination extending beneath the Project site from an upgradient source. The Supplemental Investigation reinforces the conclusions of the Phase II Site Investigation report.
- No evidence was found to suggest that the source of this plume was located on the Project site, as had been hypothesized by PES as a result of their probabilistic modeling. The configuration of the plume, as confirmed by Earth Tech's groundwater sampling and analysis, continues to suggest an upgradient, off-site source located north-northeast of the Project site on Depot land.
- The presence of the TCE plume at the water table approximately 60 feet below ground surface will not impact or impede design and construction of the Project.
- The supplemental geophysical survey performed on-site as well as a portion of the 400 Block (occupied by the DLA/DNSC) did not identify any significant GPR anomalies in any of the Target Areas. In addition, no significant new anomalies were identified during the Additional Acreage Area and Supplemental Investigation EM-31 survey that would warrant concern from an environmental perspective.
- The remaining five on-site RECs were addressed once access to the Additional Acreage Area was allowed. These RECs were addressed during the Supplemental Investigation and included: geophysical surveying, soil gas surveying, test pit exploration, and soil sampling and laboratory analysis. Table 6 summarizes the on-site RECs (including No's. 7-11) and shows which exploratory methods were applied to evaluate them. This table summarizes key conclusions for each of these RECs (including No's. 7-11). A geophysical survey, conducted in October 1999, partially covered the Additional Acreage Area while another geophysical survey was performed in June through August of 2001. This survey covered the entire Additional Acreage Area, except beneath the concrete slabs for former Buildings 304-A, 304-B, and 304-C. Eighteen soil gas points were installed during the Phase II Site Investigation and/or Supplemental Investigation to address REC No's. 7 through 11. No VOCs were detected at any of the twelve sample locations established during the Supplemental Investigation. These results suggest that the areas do not appear to contain a significant shallow VOC contamination source regarding these RECs. Ten test pits were excavated in the Additional Acreage Area to assess REC No's. 7 through 11. These locations were determined following the review of historical Phase I ESA information, geophysical survey findings from the Phase II Site Investigation, geophysical survey findings from the Supplemental Investigation, and soil gas survey results (Phase II Site Investigation and Supplemental Investigation). None of the test pits

encountered any subsurface structures, features, or objects suggestive of environmental concerns. Three soil samples were selected for laboratory analysis (VOCs, SVOCs, Pesticides/PCBs, and metals). Exceedances for select PAH's (two soil samples) 4,4'-DDE, 4,4'-DDT (one soil sample), and arsenic, cadmium, and mercury (one soil sample) reflect isolated detections rather than an indicator of pervasive contamination. No evidence was found that would warrant concern from an environmental perspective. Therefore, no further action is recommended for the RECs identified in the Additional Acreage Area.

- Based on the supplemental geophysical survey, soil gas surveys, test pitting, soil sampling and analyses, monitoring well installations, and groundwater sampling and analyses, no other subsurface environmental concerns were identified in the areas of the Project site where excavation work is planned as part of the power plant construction.

8.0 REFERENCES

- Alpha Geoscience, December 2001, Hydrogeology of the Great Flats Aquifer in the Vicinity of the Glenville Energy Park, prepared for Earth Tech, Inc.
- Earth Tech, August 2001, Revised January 2002, Phase I Environmental Site Assessment, Proposed Glenville Energy Park, 300 Block – Scotia-Glenville Industrial Park, New York State Route 5, Town of Glenville, New York 12302, prepared for Glenville Energy Park, L.L.C.
- Earth Tech, January 2002, Phase II Site Investigation, Proposed Glenville Energy Park, 300 Block – Scotia-Glenville Industrial Park, New York State Route 5, Town of Glenville, New York 12302, prepared for Glenville Energy Park, L.L.C.
- Parsons Engineering Science, Inc., August 2001, Groundwater Investigation report of the Scotia Depot, prepared for the United States Army Corps of Engineers – Huntsville Center [Contract No. DACA87095-D-0018], and the United States General Services Administration (GSA) [Contract No. GS-10F-0179J].
- Shacklette, H.T and J.G. Boerngen, 1984, Element Concentrations in soils and Other Surficial Materials in the Conterminous United States, United States Geological Survey Professional Paper 1270.

TABLES

Table 1
Supplemental Investigation
Summary of Test Pit Soil Analytical Results - VOCs, SVOCs, and Pest/PCBs (Earth Tech 2001)
Glenville Energy Park, L.L.C.
Glenville, New York

ANALYTE	TP-01-01 (5')	TP-01-02 (14')	TP-01-03 (13')	TP-01-04 (13.5')	TP-01-07 (6-8')	TP-05-TH (2-4')	TP-06-TH (0-2')	TP-09-TH (0-2')	NYSDEC RSCO (µg/kg)
Volatile Organic Compounds									
Methylene Chloride	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ	5 U	6 U	5 U	100
Chloroform	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ	5 U	6 U	5 U	300
Trichloroethene	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ	5 U	6 U	5 U	700
Benzene	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ	5 U	6 U	5 U	60
Bromoform	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ	5 U	6 U	5 U	---
Tetrachloroethene	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ	5 U	6 U	5 U	1,400
1,1,2,2-Tetrachloroethane	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ	5 U	6 U	5 U	600
Toluene	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ	5 U	6 U	5 U	1,500
Chlorobenzene	5 UJ	6 UJ	5 UJ	5 UJ	5 UJ	5 U	6 U	5 U	1,700
2-Hexanone	11 UJ	11 UJ	10 UJ	11 UJ	10 UJ	11 U	11 UJ	10 U	---
2-Butanone	11 UJ	11 UJ	10 UJ	11 UJ	10 UJ	11 U	11 UJ	10 UJ	300
Acetone	11 UJ	11 UJ	10 UJ	11 UJ	10 UJ	11 UJ	11 UJ	10 U	200
Chloromethane	11 UJ	11 UJ	10 UJ	11 UJ	10 UJ	11 U	11 UJ	10 U	---
Vinyl Chloride	11 UJ	11 UJ	10 UJ	11 UJ	10 UJ	11 U	11 U	10 U	200
Semi-Volatile Compounds									
Naphthalene	350UJ	380UJ	350UJ	350UJ	350UJ	270 J	850 J	350 U	1,300
2-Methylnaphthalene	350UJ	380UJ	350UJ	350UJ	350UJ	950	370 J	350 U	36,400
Acenaphthene	350UJ	380UJ	350UJ	350UJ	350UJ	370 U	970 J	350 U	50,000
Fluorene	350UJ	380UJ	350UJ	350UJ	350UJ	370 U	980 J	350 U	50,000
Phenanthrene	350UJ	380UJ	350UJ	350UJ	350UJ	97 J	7,200	180 J	50,000
Anthracene	350UJ	380UJ	350UJ	350UJ	350UJ	370 U	3,800	72 J	50,000
Fluoranthene	350UJ	380UJ	350UJ	350UJ	350UJ	38 J	10,000	390	50,000
Pyrene	350UJ	380UJ	350UJ	350UJ	350UJ	37 J	7,500	290 J	50,000
Benzo(a)Anthracene	350UJ	380UJ	350UJ	350UJ	350UJ	370 U	4,600	190 J	224 or MDL
Bis(2-Ethylhexyl)Phthalate	350UJ	380UJ	1200 J	350UJ	350UJ	370 U	2,200 J	350 U	50,000
Chrysene	350UJ	380UJ	350UJ	350UJ	350UJ	370 U	4,400	200 J	400
Benzo(b)Fluoranthene	350UJ	380UJ	350UJ	350UJ	350UJ	370 U	5,500	200 J	1,100
Benzo(k)Fluoranthene	350UJ	380UJ	350UJ	350UJ	350UJ	370 U	4,200	190 J	1,100
Benzo(a)Pyrene	350UJ	380UJ	350UJ	350UJ	350UJ	370 U	5,100	200 J	61 or MDL
2,4-Dinitrophenol	1800UJ	1900UJ	1700UJ	1800UJ	1700UJ	1800 U	7,500 U	1,700 U	200 or MDL
4-Nitrophenol	1800UJ	1900UJ	1700UJ	1800UJ	1700UJ	1800 U	7,500 U	1,700 U	100 or MDL
3,3'-Dichlorobenzidine	350UJ	380UJ	350UJ	350UJ	350UJ	730 U	1,500 U	690 U	---
Dibenzofuran	350UJ	380UJ	350UJ	350UJ	350UJ	44 J	560 J	350 U	6,200
Carbazole	350UJ	380UJ	350UJ	350UJ	350UJ	370 UJ	4,000 J	72 J	---
Indeno(1,2,3-cd)pyrene	350UJ	380UJ	350UJ	350UJ	350UJ	370 U	3,500	130 J	3,200
Dibenzo(a,h)anthracene	350UJ	380UJ	350UJ	350UJ	350UJ	370 U	420 J	350 U	14 or MDL
Benzo(g,h,i)perylene	350UJ	380UJ	350UJ	350UJ	350UJ	370 UJ	3,000 J	85 J	50,000
4-Methylphenol	350UJ	380UJ	350UJ	350UJ	350UJ	370 UJ	1,500 UJ	350 UJ	900
4-Chloroaniline	350UJ	380UJ	350UJ	350UJ	350UJ	370 UJ	1,500 UJ	350 UJ	220
3-Nitroaniline	1800UJ	1900UJ	1700UJ	1800UJ	1700UJ	1800 UJ	7,500 UJ	1700 UJ	500
4-Nitroaniline	1800UJ	1900UJ	1700UJ	1800UJ	1700UJ	1800 UJ	7,500 UJ	1700 UJ	---
Butylbenzylphthalate	350UJ	380UJ	350UJ	350UJ	350UJ	370 UJ	1,500 UJ	350 UJ	50,000
Pesticides									
4,4'-DDE	3.5 UJ	NA	3.5 UJ	NA	3.5 UJ	3.7 U	12,000 J	35	2,100
4,4'-DDT	3.5 UJ	NA	3.5 UJ	NA	3.5 UJ	0.33 J	880,000	28	2,100
Endrin	3.5 UJ	NA	3.5 UJ	NA	3.5 UJ	3.7 U	37000 U	R	100
Aldrin	0.058 J	NA	1.7 UJ	NA	1.8 UJ	R	37000 U	R	41
alpha-BHC	0.043J	NA	1.7 UJ	NA	1.8 UJ	1.8U	37000 U	1.7 U	110
beta-BHC	0.11J	NA	1.7 UJ	NA	1.8 UJ	1.8U	37000 U	1.7 U	200
delta-BHC	1.8 UJ	NA	1.7 UJ	NA	1.8 UJ	0.21 J	37000 U	1.7 U	300
4,4'-DDD	3.5 UJ	NA	3.5 UJ	NA	3.5 UJ	R	R	2.3 J	2,900
Endrin aldehyde	3.5 UJ	NA	3.5 UJ	NA	3.5 UJ	R	75,000 U	R	---
Endrin Ketone	3.5 UJ	NA	3.5 UJ	NA	3.5 UJ	3.7 U	75,000 U	0.94 J	---
Dieldrin	3.5 UJ	NA	3.5 UJ	NA	3.5 UJ	3.7 UJ	75,000 UJ	3.5 UJ	44
Methoxychlor	18 UJ	NA	17 UJ	NA	18 UJ	18 UJ	370,000 UJ	17 UJ	Total VOCs <10,000
PCBs									
Aroclor 1254	35 U	NA	35 U	NA	35 U	37 U	370 U	35 U	10,000
Aroclor 1260	12 J	NA	35 U	NA	5.2 J	37 U	370 U	16 J	10,000

Notes:

value exceeds NYS DEC RSCO values

1) All results are expressed in µg/kg (ppb).

2) Data has been validated.

3) NYSDEC RSCO = Division Technical and Administrative Guidance Memorandum 4046: Proposed Determination of Soil Cleanup Objectives and Cleanup Levels (1994).

4) Bolded values are those that have exceeded NYSDEC RSCO's.

5) J = Estimated value.

6) U = Not detected at or above the instrument detection limit; number before the "U" reflects the instrument detection limit.

7) NA = Not analyzed

--- = Not Available

Table 2
Supplemental Investigation
Summary of Test Pit Soil Analytical Results (Metals)
Glenville Energy Park, L.L.C.
Glenville, New York

Analyte	TP-01-01 (5')	TP-01-03 (13')	TP-01-07 (6-8')	TP-05-TH (2-4')	TP-06-TH (0-2')	TP-09-TH (0-2')	NYSDEC RSCO (mg/kg)	Eastern USA Background (mg/kg)
Aluminum	2,860	3,330	2,930	---	---	---	SB	33,000
Antimony	0.72 UR	0.71 UR	0.71 UR	---	---	---	SB	
Arsenic	0.82 U	0.81 U	0.81 U	0.86 U	103	0.81 U	7.5 or SB	3 - 12**
Barium	14.4	15.1	18.3	59.1	41.8 B	56.8	300 or SB	15 - 600
Beryllium	0.15	0.15	0.13	---	---	---	0.16 or SB	0 - 1.75
Cadmium	0.042 U	0.042 U	0.042 U	0.044 U	3.5	0.092 B	1 or SB	0.1 - 1
Calcium				---	---	---	SB	130 - 35,000**
Chromium	6.4	6.5	6.1	12.6	34.7	8.1	10 or SB	1.5 - 40**
Cobalt	2.9	3.3	2.9	---	---	---	30 or SB	2.5 - 60**
Copper	8.6	8.8	15.1	---	---	---	25 or SB	1 - 50
Iron	8,400 J	9,690 J	8,270 J	---	---	---	2,000 or SB	2,000 - 550,000
Lead	1.6 J	2.2 J	2.4 J	10.8 JN	355 JN	25.7 JN	SB*	*
Magnesium				---	---	---	SB	100 - 5,000
Manganese	269	234	259	---	---	---	SB	50 - 5,000
Mercury	0.068 U	0.090 U	0.074 U	0.18	0.23	0.19	0.1	0.001 - 0.2
Nickel	5.9 J	6.6 J	6.0 J	---	---	---	13 or SB	0.5 - 25
Potassium	296 J	339 J	272 J	---	---	---	SB	8,500 - 43,000**
Selenium	0.36 UJ	0.35 UJ	0.35 UJ	R	R	R	2 or SB	0.1 - 3.9
Silver	0.58	0.58	0.58	0.80 B	0.56 B	1.5 B	SB	
Sodium	70.7	88.7	63.8	---	---	---	SB	6,000 - 8,000
Thallium	0.48 U	0.63 U	0.76 U	---	---	---	SB	
Vanadium	5.3	7.0	5.9	---	---	---	150 or SB	1 - 300
Zinc	23.3 J	29.4 J	23.4 J	---	---	---	20 or SB	9 - 50

Notes:

value exceeds NYS DEC RSCO and Eastern USA Background values

value exceeds NYS DEC RSCO but not Eastern USA Background values

value exceeds NYS DEC RSCO and Eastern USA Background values

1) All results are expressed in mg/kg (ppm).

2) Data has been validated.

3) NYSDEC RSCO = Division Technical and Administrative Guidance Memorandum 4046: Proposed Determination of Soil Cleanup Objectives and Cleanup Levels (1994).

4) Bolded values are those that have exceeded NYSDEC RSCO's.

5) * = Background levels for lead vary widely. Average background levels in metropolitan or suburban areas near highways are much higher and typically range from 200-500 ppm. The USEPA's Interim Guidance (July 14, 1994) established a residential screening level of 400 ppm.

6) ** = New York State background.

7) U = Not detected at or above the instrument detection limit; number before the "U" reflects the instrument detection limit.

8) J = Estimated value.

9) N = Spiked sample recovery not within control limits.

10) B = above the instrument detection limit but below the method detection limit.

11) R = Data has been rejected due to analytical performance deficiency

12) SB = Site Background

13) --- = Not Analyzed

Table 2 (Continued)

**Supplemental Investigation
Summary of Test Pit Soil Analytical Results - Asbestos
Glenville Energy Park, L.L.C.
Glenville, New York**

Parameter	A-1	A-2	A-3
Asbestos			
Chrysotile	ND	ND	ND
Amosite	ND	ND	ND
Crocidolite	ND	ND	ND
Anthophyllite	ND	ND	ND
Tremolite	ND	ND	ND
Actinolite	ND	ND	ND
Fibers / Fibrous Glass			
Synthetic Fibers	<1%	<1%	<1%
Fibrous Glass	<1%	1-5%	<1%
Other Fiber	<1%	1-5%	<1%

Notes:

- 1) All results are expressed in fibers/cc unless otherwise noted.
ND = Not Detected

Table 3

Supplemental Investigation
Summary of Groundwater Quality (Portable GC) - VOCs (Earth Tech, June 2001)
Glenville Energy Park, L.L.C.
Glenville, New York

Parameter	MW-13	MW-99-14		MW-99-15			
	Water Table	Water Table	Top of Screen	Bottom of Screen	Water Table	Top of Screen	Bottom of Screen
Trichloroethene	251.1, 261.8 to 370.6	6.8 to 6.9 / 25.2 to 26.9	25.1 to 25.8	11.3, 13.5, and 14.1	243.4 / 265.4, 281.1 to 321.2	394.5 to 489.7	393.4 to 468.1
Tetrachloroethene	...	33.2 to 35 / 102 to 120.3	100.9 to 102.9	46.3 to 49.0	...	...	/ ...
1,1-dichloroethene	...	/ ...	...	...	...	...	/ ...
cis-1,2-dichloroethene	...	... < 2 / ... < 2	...	...	...	...	/ ...
Vinyl Chloride	...	/ ...	...	...	...	...	... 12.2 /

Notes:

All results are expressed in micrograms per liter (µg/L).

Listed compounds are those that were tested by the portable gas chromatograph (GC).

Bolded and highlighted values exceed NYS DEC groundwater standards or guidance values.

Groundwater standards are NYS Ambient Water Quality Standards and Groundwater Effluent Limitations (6/98).

The groundwater standard for trichloroethene, tetrachloroethene, 1,1-dichloroethene, and vinyl chloride is 5 µg/L.

Green text reflects groundwater sample collected with bottom-filling bailer.

Blue text reflects depth discrete sample collected using Kemmerer sampler.

--- = Not Detected at or above Practical Quantitation Limit.

Table 3 (Continued)

Supplemental Investigation
Summary of Groundwater Quality [Portable GC] - VOCs (Earth Tech, June 2001)
Glenville Energy Park, L.L.C.
Glenville, New York

Parameter	GEP-1		GEP-2		GEP-3		GEP-4	
	Water Table	Top of Screen	Bottom of Screen	Water Table	Bottom of Screen	Water Table	Water Table	
Trichloroethene	337.9, 358.6 to 416.3 / 408.3 to 446.3	411.8 to 466.9	410.2 to 533.9	908.95 9/9 / and 1,048.3 / 746.2, 776.7 to 863.95	647.3 to 838.5	229.8 to 242.4	519.4 to 743.1	
Tetrachloroethene	/ ...	...	...	86.1 46.2	...	...	...	
1,1-dichloroethene	/ ...	...	...	22.7 22.7 ...	to <2	...	...	
cis-1,2-dichloroethene	/ ...	...	...	/ ...	...	...	...	
Vinyl Chloride	1, 2, 3, 6 /	...	...	... / ...	...	16.4 to 35.9	...	

Notes:

All results are expressed in micrograms per liter (µg/L)

Listed compounds are those that were tested by the portable gas chromatograph (GC).

Bolded and highlighted values exceed NYS DEC groundwater standards or guidance values.

Groundwater standards are NYS Ambient Water Quality Standards and Groundwater Effluent Limitations (6/98).

The groundwater standard for trichloroethene, tetrachloroethene, 1,1-dichloroethene, cis-1,2-dichloroethene, and vinyl chloride is 5 µg/L.

Green text reflects groundwater sample collected with bottom-filling bailer.

Blue text reflects depth discrete sample collected using Kemmerer sampler.

--- = Not Detected at or above Practical Quantitation Limit.

Table 4
Supplemental Investigation
Summary of Groundwater Analytical Results - VOCs (Earth Tech, June 2001)
Glenville Energy Park, L.L.C.
Glenville, New York

Compound/Parameter	Groundwater Standard / Guidance Value (µg/l)	Well: Well Type: Owner: Location: Date: Sampled by:	Reported Values (Monitoring Wells)									
			GEP-1 Monitoring GEP 300 Block		GEP-2 Monitoring GEP 300 Block		GEP-3 Monitoring GEP 300 Block June 20, 2001	GEP-4 Monitoring GEP 300 Block June 20, 2001	MW-6 Monitoring State 200 Block June 20, 2001	MW-7 Monitoring State 200 Block June 20, 2001		
			June 14, 2001 ET	June 20, 2001 ET	June 14, 2001 ET	June 20, 2001 ET	ET	ET	ET			
Volatile Organic Compounds												
Trichloroethene (TCE)	5		350	480	530	880	240	540	58	5 U		
1,1,1-Trichloroethane	5		7 J	10 J	44	57	2 J	22 J	1 J	5 U		
Carbon Tetrachloride	5		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
1,1,2-Trichloroethane	5		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
1,1-Dichloroethane	5		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
1,1-Dichloroethene	5		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
1,2-Dichloroethene (trans)	5		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
cis-1,2-Dichloroethene	5		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
Tetrachloroethene (PCE)	5		50 U	50 U	50 U	50 U	10 U	50 U	10 U	10 U		
Vinyl Chloride	5		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
Methylene Chloride	50 G		50 UJ	50 UJ	50 UJ	50 UJ	20 UJ	50 UJ	10 UJ	10 UJ		
Acetone	---		---	---	---	---	---	---	---	---		
Vinyl Acetate												
Bromoform	50 G		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
Chloroform	7		25 U	25 U	25 U	25 U	10 UJ	25 U	5 UJ	5 U		
Chloromethane	5		50 U	50 U	50 U	50 U	20 UJ	50 UJ	5 U	5 U		
Bromodichloromethane	50 G		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
Dibromochloromethane	50 G		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
Bromomethane			50 UJ	50 U	50 U	50 U	20 U	50 U	10 UJ	10 UJ		
Benzene	1		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
Toluene	5		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
Ethylbenzene												
Total Xylenes	5		25 U	25 U	25 U	25 U	10 U	25 U	5 U	5 U		
2-Hexanone												
2-Butanone	50 G		50 UJ	50 UJ	50 UJ	50 UJ	20 UJ	50 UJ	10 UJ	10 UJ		

Notes:

Listed compounds are those that have been detected in groundwater.

All values are expressed in µg/l.

Bolded and highlighted values for this parameter exceeds the NYS DEC groundwater standard.

Bolded and highlighted values for this parameter exceeds the NYS DEC groundwater guidance value.

1. Groundwater standards are NYS Ambient Water Quality Standards and Guidance Values (G) and Groundwater Effluent Limitations (6/98).

2. --- = Not Analyzed or Not Available.

3. J or E = The concentration listed is an estimated value.

4. U = Not detected at or above the instrument detection limit; number before the "U" reflects the instrument detection limit.

5. UJ = Undetected, but the number that is reported as the quantitation limit is an estimated value.

Table 4 (Continued)

Supplemental Investigation
Summary of Groundwater Analytical Results - VOCs (Earth Tech, June 2001)
Glenville Energy Park, L.L.C.
Glenville, New York

Compound/Parameter	Groundwater Standard / Guidance Value (ug/l)	Well: Well Type: Owner: Location: Date: Sampled by:	Reported Values (Monitoring Wells and Trip Blanks)				
			MW-99-13 Monitoring State 300 Block June 20, 2001 ET	MW-99-14 Monitoring GEP 300 Block June 20, 2001 ET	MW-99-15 Monitoring GEP 300 Block June 20, 2001 ET	MW-99-16 Monitoring GEP 300 Block June 20, 2001 ET	Trip Blank
Volatile Organic Compounds							
Trichloroethene (TCE)	5		230	8	210	5 U	5 U
1,1,1-Trichloroethane	5		8 J	13	7 J	5 U	5 U
Carbon Tetrachloride	5		10 U	5 U	10 U	5 U	5 U
1,1,2-Trichloroethane	5		10 U	5 U	10 U	5 U	5 U
1,1-Dichloroethane	5		10 U	5 U	10 U	5 U	5 U
1,1-Dichloroethene	5		10 U	5 U	10 U	5 U	5 U
1,2-Dichloroethene (trans)	5		10 U	5 U	10 U	5 U	5 U
cis-1,2-Dichloroethene	5		10 U	16	10 U	5 U	5 U
Tetrachloroethene (PCE)	5		10 U	37	10 U	5 U	5 U
Vinyl Chloride	5		10 U	10 U	20 U	10 U	10 U
Methylene Chloride	5		20 U	5 U	10 U	5 U	5 U
Acetone	50 G		10 U	5 U	20 UJ	10 UJ	10 UJ
Vinyl Acetate	---		10 U	5 U	10 U	---	5 U
Bromoform	50 G		10 U	5 U	10 U	5 U	5 U
Chloroform	7		10 U	5 U	10 U	5 U	5 U
Chloromethane	5		20 UJ	5 U	20 U	10 U	10 U
Bromodichloromethane	50 G		10 U	5 U	10 U	5 U	5 U
Dibromochloromethane	50 G		10 U	5 U	10 U	5 U	5 U
Bromomethane			10 U	5 U	20 U	10 UJ	10 UJ
Benzene	1		10 U	5 U	10 U	5 U	5 U
Toluene	5		10 U	5 U	10 U	5 U	5 U
Ethylbenzene	5		10 U	5 U	10 U	5 U	5 U
Total Xylenes	5		10 U	5 U	10 U	5 U	5 U
2-Hexanone	50 G		20 UJ	10 UJ	20 UJ	10 UJ	10 UJ
2-Butanone			20 UJ	10 UJ	20 UJ	10 UJ	10 UJ

Notes:

Listed compounds are those that have been detected in groundwater.

All values are expressed in µg/l.

Bolded and highlighted values for this parameter exceeds the NYS DEC groundwater standard.**Bolded and highlighted values for this parameter exceeds the NYS DEC groundwater guidance value.**

1. Groundwater standards are NYS Ambient Water Quality Standards and Guidance Values (G) and Groundwater Effluent Limitations (6098).

2. --- = Not Analyzed or Not Available.

3. J or E = The concentration listed is an estimated value.

4. U = Not detected at or above the instrument detection limit; number before the "U" reflects the instrument detection limit.

5. UJ = Undetected, but the number that is reported as the quantitation limit is an estimated value.

Table 5

Supplemental Investigation
Summary of Trichloroethene Concentrations in Groundwater
Glenville Energy Park, L.L.C.
Glenville, Schenectady County, New York

Well I.D.	Portable GC Results		June 13, 2001 Results	June 19 to 20, 2001 Results	Historical Range*
	MAX	Range			
MW-6	N/A	N/A	N/A	58	58 to 140
MW-7	N/A	N/A	N/A	<5.0	<5.0 to 18
MW-13	370.6	251.1 - 370.6	N/A	230	210 D to 330
MW-99-14	26.9	6.8 - 26.9	N/A	8	2 J to 17 B
MW-99-14 (ToWS)	25.8	25.1 - 25.8	N/A	N/A	---
MW-99-14 (BoWS)	14.1	11.3 to 14.1	N/A	N/A	---
MW-99-15	327.3	243.4 to 327.3	N/A	210	170 D to 470 DB
MW-99-15 (ToWS)	489.7	384.6 to 489.7	N/A	N/A	---
MW-99-15 (BoWS)	468.1	393.4 to 468.1	N/A	N/A	---
MW-99-16	N/A	N/A	N/A	<5.0	ND to 1 JB
GEP-1	446.3	337.9 to 446.3	350	480	480
GEP-1 (ToWS)	466.9	411.8 to 466.9	N/A	N/A	---
GEP-1 (BoWS)	533.9	410.2 to 533.8	N/A	N/A	---
GEP-2	1098.3	746.2 - 1,098.3	530	880	580 to 880
GEP-2 (ToWS)	1143.7	991.5 to 1,143.7	N/A	N/A	---
GEP-2 (BoWS)	838.5	647.5 to 838.5	N/A	N/A	---
GEP-3	292.4	229.8 to 292.4	N/A	240	240
GEP-4	743.7	579.4 to 743.7	N/A	540	550

Notes:

All results are expressed in micrograms per liter (µg/L)

Bolded and highlighted values exceed NYS DEC groundwater standards or guidance values.

Groundwater standards are NYS Ambient Water Quality Standards and Groundwater Effluent Limitations (6/98). The groundwater standard for trichloroethene is 5 µg/L.

N/A = Not Applicable

--- = Not Detected at or above Practical Quantitation Limit.

ToWS = Groundwater sample collected from top of well screen

BoWS = Groundwater sample collected from bottom of well screen

* based on fixed laboratory analytical results

RECs	Phase I Findings	Investigative Methods*						Investigation Findings**
		GP	SG	TP	SS	MW	GW	WL
REC No. 2 (Continued)								published by NYS DEC and the background concentrations of soils in the eastern United States published by the United States Geological Survey (USGS) to determine whether they warrant concern from an environmental perspective. This comparison was also made for the 10 metals having RSCOs of SB. These metals are aluminum, antimony, calcium, lead, magnesium, manganese, potassium, silver, sodium, and thallium. Of the five metals that exceeded their applicable numerical RSCO values (beryllium, iron, mercury, nickel, and zinc), none of these metals exceeded the Eastern USA or USGS background values. Therefore, the five metals not exceeding background are not considered indicative of pervasive site contamination. All of the metals with RSCOs of SB, except for calcium and magnesium, were less than the applicable background concentrations. Calcium and magnesium concentrations exceeded USGS background ranges in one or more samples. Calcium and magnesium exceedances are generally attributable to local geologic conditions. Based on the laboratory results for the test pit soil samples, it was concluded that the detected metals concentrations did not suggest significant or pervasive site contamination.
REC No. 3 Storm Drains, Catch Basins, and Dry Wells [ON-SITE & OFF-SITE]	Earth Tech and others have identified several Project site and off-site catch basins. NYS DEC sampled “dried soils” from select storm drains in other portions of the Scotia-Glenville Industrial Park (SGIP) outside the Project site. These dry wells, which are commonly referred to as catch basins, could serve as receptors of miscellaneous materials from nearby off-site buildings of concern (i.e., 102 [Tractor & Truck Garage], 104 [Gasoline Truck Garage], 301-A [Salvage Yard Shop], 301-B [Inflammable Materials Shed], 403 [General Storehouse], 404 [General Storehouse (Depot); Warehouse for CONDEC], 405 [Preservation & Packing (Depot); source of assembly, painting, lubrication, and storage operations for CONDEC], 406 [Heavy Materials Storehouse (Depot); welding activities for CONDEC], 440 [Paint Storage], and 905 [Masons Storage Shed] and ultimately be conveyed to the Mohawk River via existing storm water drainage. Leaks to the piping could, via seepage, migrate downward to come into contact with groundwater. No work is proposed by Earth Tech to address the on-site portion of this REC. Although there are catch basins and dry wells on-site (3rd Street and 5th Street), the storm sewer-related features that warrant consideration as a potential REC are all off-site (see above). Based on Earth Tech’s site reconnaissance and review of available environmental records, further investigation of this REC is required and will be addressed as part of the investigation of REC No. 1. Potential or Suspected Impacts: Subsurface Soils, and Groundwater	X				X	X	An EM-31 survey was performed on the Project site to search for areas of former structures, utilities, and buried metal. None of the minor or “slight” geophysical anomalies identified from the Phase II Site Investigation were found to be associated with the on-site storm sewer system or reflect adverse environmentally significant conditions at the Project site. Although there are catch basins and dry wells on-site (3rd Street and 5th Street), the storm sewer-related features that warrant consideration as a potential REC are all off-site (see Phase I Findings). Based on the analysis of groundwater elevations from the Phase II Site Investigation, these suspect dry wells, which are commonly referred to as catch basins, could serve as receptors of miscellaneous materials from nearby upgradient off-site buildings of concern and ultimately be conveyed to the Mohawk River via existing storm water drainage. Leaks to the piping could, via seepage, migrate downward to come into contact with groundwater Further investigation of the off-site portion of this REC was performed via groundwater sampling of wells MW-11, MW-99-14, and MW-99-15, which was also performed as part of REC No. 1. Existing monitoring well MW-11 is downgradient of suspect storm sewer features within the 300 sub-Block (i.e., Former Building 301-A [Salvage Yard Shop] and Building 301-B [Inflammable Materials Shed]). Monitoring wells MW-99-14 and MW-99-15 are downgradient of suspect storm sewer features within a portion of the 300 sub-Block (i.e., Building 301-B [Inflammable Materials Shed]) and the 400 sub-Block (i.e., Building 102 [Tractor & Truck Garage], Building 104 [Gasoline Truck Garage], Building 440 [Paint Storage], and 905 [Masons Storage Shed]). The VOC concentrations in groundwater collected from these on-site monitoring wells revealed the presence of: • carbon tetrachloride at levels ranging from 12 to 14 µg/l at well MW-11; • trichloroethene (TCE), 1,1,1-trichloroethane (TCA), cis-1,2-dichloroethene (cis-1,2 DCE), and tetrachloroethene (PCE) at concentrations above the NYS DEC groundwater standard in well MW-99-14. Earth Tech analytical results were: TCE ranging from 7 µg/l to 9 µg/l; TCA ranging from 10 µg/l to 20 µg/l; cis-1,2 DCE at 10 µg/l; and PCE at levels ranging from 24.0 µg/l to 40 µg/l; and • trichloroethene (TCE) and 1,1,1-trichloroethane (TCA) at concentrations above the NYS DEC groundwater standard in well MW-99-15. Earth Tech analytical results revealed TCE values ranging from 380 µg/l to 390 µg/l and TCA values ranging from approximately 13 µg/l to 18µg/l. The highest concentration of TCE detected

RECs	Phase I Findings	Investigative Methods*							Investigation Findings**
		GP	SG	TP	SS	MW	GW	WL	
REC No. 5 Historical CONDEC Operations [ON-SITE & OFF-SITE]	Photographs obtained from DLA/DNSC files revealed the presence of drummed waste, skid tanks, paint spray booths, poor housekeeping, and waste management practices (discarded materials from Consolidated Diesel Electric (CONDEC) observed at the burn pit in the 301 sub-Block). According to DLA/DNSC representatives (Mr. Wesolowski and Mr. Booth), CONDEC and Electric Boat leased buildings within the 400 Block of the Depot, which is located to the east of the Project site. CONDEC leased property from the federal government between 1966 and 1977. Storage was reportedly provided at Building 404 and assembly operations were conducted in Buildings 405 and 406. Mr. Brooks stated that solvents were used in Building 405 and were stored in tanks along the east end of the building. Mr. Brooks indicated that the exterior was only used to park or stage vehicles (commonly eastern portion of 304 sub-Block and 305 sub-Block). The Depot's occupancy by CONDEC is of concern because of the chemical compounds used, stored, and likely disposed of during cleaning/degreasing, paint application, and paint removal. Based on Earth Tech's site reconnaissance and review of available environmental records, further investigation is required to address this REC. <u>Potential or Suspect Impacts:</u> Surface Soils, Subsurface Soils, and Groundwater	X	X	X	X				An EM-31 survey was performed on the Project site to search for areas of former structures, utilities, and buried metal. None of the minor geophysical anomalies identified from this reconnaissance were found to be associated with environmentally significant conditions at the Project site. Thirty soil gas points were installed and sampled along the portion of the Project site formerly occupied by historical CONDEC operations. In general, the concentration of VOCs in soil gas at these surveyed points was very low to non detect. Six test pits were excavated in the vicinity of REC No. 5. None of these test pits exhibited elevated VOC during field headspace screening. At five of these test pits, soil samples were submitted for laboratory analysis (i.e., VOC, SVOCs, and TAL Metals). No VOCs, SVOCs or Pesticides/PCBs were detected in any of these Earth Tech samples. Each of 23 metals on the TAL list were detected. Thirteen of these metals have numerical New York State Recommended Soil Cleanup Objectives (RSCO) values while ten have RSCOs of "Site Background" (SB). Of the thirteen metals having numerical RSCOs, nine were present below the applicable RSCO in all cases and are therefore not considered to pose any site environmental concern. These nine metals were: arsenic, barium, cadmium, chromium, cobalt, copper, mercury, selenium, and vanadium. The remaining four metals (beryllium, iron, nickel, and zinc) were detected at a concentration in excess of the applicable RSCO in at least one soil sample. Each of these were therefore compared to two "benchmarks", the background concentrations range of soils in the Eastern USA published by NYS DEC and the background concentrations of soils in the eastern United States published by the USGS to determine whether they warrant concern from an environmental perspective. This comparison was also made for the 10 metals having RSCOs of SB. These metals are aluminum, antimony, calcium, lead, magnesium, manganese, potassium, silver, sodium, and thallium. Of the four metals that exceeded their applicable numerical RSCO values (beryllium, iron, nickel, and zinc), none of these metals exceeded the Eastern USA or USGS background values. Therefore, the four metals not exceeding background are not considered indicative of pervasive site contamination. All of the metals with RSCOs of SB, except for calcium and magnesium, were less than the applicable background concentrations. Calcium and magnesium concentrations exceeded USGS background ranges in one or more samples. Calcium and magnesium exceedances are generally attributable to local geologic conditions. Based on the laboratory results for both series of test pit soil samples, it was concluded that the detected metals concentrations did not suggest significant or pervasive site contamination.
									No further action is recommended.
	According to a Site Development Map, prepared by Galesi, an Inflammable Liquids Storage Building is reportedly mapped within a portion of the eastern third of the 303 sub-Block. Although no structure is currently evident, information gathered from the site inspection, file review, aerial photo review, and geophysical survey results indicate that the nature of vegetation is distinctly different from other portions of the Project site. Based on aerial photo review and site reconnaissance, a circular to square-shaped 200-foot by 300-foot lushly vegetated section of the 303 sub-Block was identified. Based on Earth Tech's site reconnaissance and review of available environmental records, further investigation is required to address this REC. <u>Potential or Suspect Impacts:</u> Surface Soils, Subsurface Soils, and Groundwater	X	X	X	X	X	X	X	An EM-31 survey was performed on the Project site to search for areas of former structures, utilities, and buried metal. None of the minor geophysical anomalies identified from this reconnaissance were found to be associated with environmentally significant conditions at the Project site. Twenty soil gas points were installed and sampled in the vicinity of the "Former Inflammable Liquids Storage Building". In general, the concentration of VOCs soil gas at these surveyed points was very low to non detect. Seven test pits were excavated in the vicinity of the "Former Inflammable Liquids Storage Building". None of these test pits exhibited elevated VOC during field headspace screening. At five of these test pits, soil samples were submitted for laboratory analysis (i.e., VOC, SVOCs, Pesticides/PCBs, and TAL Metals). No VOCs, SVOCs or Pesticides/PCBs were detected in any of these Earth Tech samples. Each of 23 metals on the TAL list were detected. Thirteen of these metals have numerical New York State Recommended Soil Cleanup Objectives (RSCO) values while ten have RSCOs of "Site Background" (SB). Of the thirteen metals having numerical RSCOs, ten were present below the applicable RSCO in all cases and are therefore not considered to pose any site environmental concern. These eight metals were: arsenic, barium, cadmium, chromium, cobalt, copper, mercury, nickel, selenium, and vanadium. The remaining three metals (beryllium, iron, and zinc) were detected at a concentration in excess of the

RECs	Phase I Findings	Investigative Methods*						Investigation Findings**	
		GP	SG	TP	SS	MW	GW	WL	
REC No. 6 (Continued)									applicable RSCO in at least one soil sample. Each of these were therefore compared to two “benchmarks”, the background concentrations range of soils in the Eastern USA published by NYS DEC and the background concentrations of soils in the eastern United States published by the USGS to determine whether they warrant concern from an environmental perspective. This comparison was also made for the 10 metals having RSCOs of SB. These metals are aluminum, antimony, calcium, lead, magnesium, manganese, potassium, silver, sodium, and thallium. Of the three metals that exceeded their applicable numerical RSCO values (beryllium, iron, and zinc), none of these metals exceeded the Eastern USA or USGS background values. Therefore, the three metals not exceeding background are not considered indicative of pervasive site contamination. All of the metals with RSCOs of SB, except for calcium and magnesium, were less than the applicable background concentrations. Calcium and magnesium concentrations exceeded USGS background ranges in one or more samples. Calcium and magnesium exceedances are generally attributable to local geologic conditions. Based on the laboratory results for both series of test pit soil samples, it was concluded that the detected metals concentrations did not suggest significant or pervasive site contamination. One monitoring well (MW-99-15) was installed in the vicinity of the eastern third of the 303 sub-Block. During the drilling of well MW-99-15 no subsurface soil samples exhibited elevated VOC headspace readings, except near the water table. The TCE concentrations in groundwater extracted from this well ranged from 380 µg/l to 390 µg/l. Although no structure is currently evident, information gathered from the Phase II Site Investigation indicates that the nature of vegetation is distinctly different from other portions of the Project site, possibly due to greater percentage of silt and/or clay or the presence of a localized pond that had formed during the melting or retreat of the glacier. Therefore, it is believed that the presence of this roughly circular area is glacially derived and does not represent a backfilled area. No further action is recommended.
REC No. 7 <i>Miscellaneous Items Identified along Immediate Exterior of Building 304-B and Building 304-C.</i> [ON-SITE] <u>Debris</u>	Construction and demolition debris (C&D) is evident west of Building 304-C and north of the driveway.	X	X	X	X				Geophysical surveys, conducted in October of 1999 and June and August of 2001 covered the Additional Acreage Area, with the exception of areas obscured by the concrete slabs for former buildings 304-A, 304-B, and 304-C. Geophysical surveys were performed to search for former structures, utilities, and buried metal. None of the minor geophysical anomalies identified from the Phase II Site Investigation and/or Supplemental Investigation were found to be associated with environmentally significant conditions at the Project site, except for a potential area of buried metal that was identified east of former Building 304-A. Eight soil gas points were installed and sampled along the portion of the Additional Acreage Area identified as REC No. 7. In general, the concentration of soil gas at these surveyed points was very low to the north of former Building 304-C or non detect in the other portions of REC No. 7. These results suggest that this area does not appear to contain a shallow VOC contamination source. Five test pits were excavated in the vicinity of REC No. 7. At three of these test pits, soil samples were submitted for laboratory analysis (i.e., VOC, SVOCs, and RCRA 8 Metals). No VOCs were detected in any of these Earth Tech samples. Isolated exceedances of RSCOs for select polynuclear aromatic hydrocarbons (PAHs) in

RECs	Phase I Findings	Investigative Methods*						Investigation Findings**	
		GP	SG	TP	SS	MW	GW	WL	
REC No. 7 (Continued) <i>Containers at Building 304-B and 304-C</i>	- One 5-gallon container of paint thinner is identified to the east of Building 304-C along the northwestern portion of the driveway. - An old septic tank is observed to the north of Building 304-C. The tank is above grade and is believed to be full of rain water. - Approximately eight to ten 5-gallon containers labeled as “Flammable” are noted outside the eastern end of Building 304-B. - A 10-gallon container of “Silica Gel” was identified west of Building 304-B. This container was identified as full of an unknown substance. Based on Earth Tech’s Site reconnaissance and review of available environmental records, further investigation is required to address this REC. <u>Potential or Suspected Impacts:</u> Surface Soils, Subsurface Soils, and Groundwater								two near-surface soil samples located between former Building 304-B and Building 304-C and north of former Building 304-C. Additionally, (4,4’-DDE and 4,4’-DDT), arsenic, cadmium, and mercury were detected in one near-surface soil sample located between former Building 304-B and Building 304-C. These analytical results reflect isolated detections rather than indicators of pervasive contamination. No further action is recommended.
REC No. 8 <i>One former 2,000-gallon Fuel Oil UST (Building 304-A)</i> [ON-SITE]	<i>The subject UST was apparently removed in 1988/1989 by contractors retained by Galesi. Black stained soil was previously reported to exist in two areas along the west side of Building 304-A adjacent to the suspect UST (Hart, 1989). No information was provided to document that this suspect UST was removed or, if so, removed in accordance with applicable regulations. No sampling of the surface or subsurface soils has been performed to date.</i> Based on Earth Tech’s Site reconnaissance and review of available environmental records, further investigation is required to address this REC. <u>Potential or Suspected Impacts:</u> Surface Soils or Subsurface Soils	X	X	X					Geophysical surveys conducted in October of 1999 and June and August of 2001 covered the Additional Acreage Area, with the exception of areas obscured by the concrete slabs for former buildings 304-A, 304-B, and 304-C. Geophysical surveys were performed to search for former structures, utilities, and buried metal. None of the minor geophysical anomalies identified from the Phase II Site Investigation and/or Supplemental Investigation were found to be associated with environmentally significant conditions at the Project site, except for a potential area of buried metal that was identified east of former Building 304-A. A test pit was excavated to explore this anomaly and did not yield evidence of buried metal. Three soil gas points were installed and sampled along the portion of the Additional Acreage Area identified as REC No. 8. The concentration of VOCs in soil gas at these surveyed points non detect in the vicinity of REC No. 8. These results suggest that this area does not appear to contain a shallow VOC contamination source. Three test pits were excavated in the vicinity of REC No. 8. No test pit soil samples revealed the presence of VOCs during headspace screening nor were stained layers or overtly contaminated soils encountered. Therefore, no samples were selected for laboratory analysis (i.e., VOC, SVOCs, etc.). No further action is recommended.
REC No. 9 <i>One 500-gallon Heating Oil AST (North of Building 304-B)</i> [ON-SITE]	<i>Minor, patchy staining was observed on soils adjacent to AST. No sampling of the surface or subsurface soils has been performed to date.</i> Based on Earth Tech’s Site reconnaissance and review of available environmental records, further investigation is required to address this REC. <u>Potential or Suspected Impacts:</u> Surface Soils or Subsurface Soils	X	X	X					Geophysical surveys conducted in October of 1999 and June and August of 2001 covered the Additional Acreage Area, with the exception of areas obscured by the concrete slabs for former buildings 304-A, 304-B, and 304-C. Geophysical surveys were performed to search for former structures, utilities, and buried metal. None of the minor geophysical anomalies identified from the Phase II Site Investigation and/or Supplemental Investigation were found to be associated with environmentally significant conditions at the Project site in the vicinity of REC No. 9. One soil gas point was installed and sampled along the portion of the Additional Acreage Area identified as REC No. 9. The concentration of VOCs in soil gas at this surveyed point was non detect in the vicinity of REC No. 9. This result suggests that this area does not appear to contain a shallow VOC contamination source. A test pit was excavated in the vicinity of REC No. 9. Exposed soil in the test pit displayed overt evidence of contamination and significantly elevated field chemical screening results. Specifically, a 4.1 to 4.6-foot deep soil sample taken from this test pit yielded a photoionization detector (PID) reading of up to 301 ppm; this soil was from a visibly stained horizon where an odor of diesel fuel was noted. The sample was collected from a location believed to be the site of a former above ground storage tank. This sample represented a narrow horizon, and the soil samples collected above and below this stained horizon yielded “non-detect” PID readings. A near-surface soil sample was submitted for laboratory analysis (i.e., VOC, SVOCs, Pesticides/PCBs, and RCRA 8 Metals). No VOCs were detected in this sample. Isolated exceedances of RSCOs for select polynuclear aromatic hydrocarbons (PAHs). Additionally, 4,4’-DDE, 4,4’-DDT, arsenic, cadmium, and mercury were detected. These analytical

REC's	Phase I Findings	Investigative Methods*						Investigation Findings**	
		GP	SG	TP	SS	MW	GW	WL	
REC No. 9 (Continued)									results reflect an isolated detection rather than indicators of pervasive contamination.
REC No. 10 One former 8,000-gallon Fuel Oil UST (Building 304-C) [ON-SITE]	<i>The subject UST was apparently removed in 1988/1989 by Galesi contractors. No information was provided to document that this suspect UST was removed or, if so, removed in accordance with applicable regulations. No sampling of the surface soils has been performed to date.</i> Based on Earth Tech's Site reconnaissance and review of available environmental records, further investigation is required to address this REC. <u>Potential or Suspected Impacts:</u> Surface Soils or Subsurface Soils	X	X	X	X				No further action is recommended. Geophysical surveys conducted in October of 1999 and June and August of 2001 covered the Additional Acreage Area, with the exception of areas obscured by the concrete slabs for former buildings 304-A, 304-B, and 304-C. Geophysical surveys were performed to search for former structures, utilities, and buried metal. None of the minor geophysical anomalies identified from the Phase II Site Investigation and/or Supplemental Investigation were found to be associated with environmentally significant conditions at the Project site in the vicinity of REC No. 10. One soil gas point was installed and sampled along the portion of the Additional Acreage Area identified as REC No. 10. The concentration of VOCs in soil gas at this surveyed point was non detect in the vicinity of REC No. 10. This result suggests that this area does not appear to contain a shallow VOC contamination source. A test pit was excavated in the vicinity of REC No. 10. Exposed soil in the test pit displayed overt evidence of contamination and significantly elevated field chemical screening results. Specifically, a 4.1 to 4.6-foot deep soil sample taken from this test pit yielded a photoionization detector (PID) reading of up to 301 ppm; this soil was from a visibly stained horizon where an odor of diesel fuel was noted. The sample was collected from a location believed to be the site of a former above ground storage tank. This sample represented a narrow horizon, and the soil samples collected above and below this stained horizon yielded "non-detect" PID readings. A near-surface soil sample was submitted for laboratory analysis (i.e., VOC, SVOCs, Pesticides/PCBs, and RCRA 8 Metals). No VOCs were detected in this sample. Isolated exceedances of RSCOs for select polynuclear aromatic hydrocarbons (PAHs). Additionally, 4,4'-DDE, 4,4'-DDT, arsenic, cadmium, and mercury were detected. These analytical results reflect an isolated detection rather than indicators of pervasive contamination. No further action is recommended.
REC No. 11 Suspect Asbestos-Containing Materials (ACM) was Identified in Buildings 304-A, 304-B, and 304-C [ON-SITE]	<i>In 1989, Hart performed a cursory inspection of the Galesi-managed section of the SGIP as part of an environmental liability assessment. This included an inspection of the facility to identify ACM. Based on Hart's review, the extent of suspect friable and non-friable ACM throughout the "Project site" appears to be relatively limited. In March of 2001, Earth Tech performed an interior and exterior reconnaissance of the "Additional Acreage Area" as part of an environmental liability assessment for GEP.). Interior of Building 304-A was not inspected by Earth Tech personnel. Building 304-A was razed by Galesi during the fall of 2000 while buildings 304-B and 304-C were razed by Galesi during the spring of 2001.</i> <u>Building 304-A</u> <i>Suspect ceiling and wall panels in the abandoned boiler room (Hart, 1989). Interior of Building 304-A was not inspected by Earth Tech personnel.</i> <u>Building 304-B</u> <i>Hart reported that there are suspended ceiling tiles within the building. According to Galesi personnel, these tiles were reportedly installed in 1985; as such, the tiles may not have a high potential for containing asbestos material. There is a small section of wallboard and an insulated pipe which are associated with a previously-removed boiler unit.</i> <i>Earth Tech: Suspect ACM were observed as wallboard in three locations in the subject buildings (Buildings 304-B and 304-C only):</i>				X				As part of the test pit exploration work on the Additional Acreage Area, Earth Tech also collected three surficial soil samples to be analyzed for the presence of asbestos by polarized light microscopy. These samples, designated A-1, A-2, and A-3, were collected in proximity to the former Quonset huts that were razed by the landlord, leaving the slabs that were present at the time of the Supplemental Investigation. None of these three samples were found to contain asbestos. No further action is recommended.

RECs	Phase I Findings	Investigative Methods*						Investigation Findings**	
		GP	SG	TP	SS	MW	GW		
REC No. 11 (Continued)	vent riser wrapping, linoleum and mastic/glue and carpet mastic. Based upon the age of the buildings (1946) and EPA and OSHA guidance documents, other building materials, though unlikely to contain asbestos (i.e., ceiling tile, sheet rock, roofing, etc), must be considered “presumed asbestos-containing materials” (PACM). <u>Building 304-C</u> Hart reported that there is a small section of wallboard and an insulated pipe which are associated with a previously-removed boiler unit. <u>Earth Tech:</u> Suspect ACM were observed as wallboard in three locations in the subject buildings (Buildings 304-B and 304-C): vent riser wrapping, linoleum and mastic/glue and carpet mastic. Based upon the age of the buildings (1946) and EPA and OSHA guidance documents, other building materials though unlikely to contain asbestos (i.e., ceiling tile, sheet rock, roofing, etc) must be considered “presumed asbestos-containing materials” (PACM). Based on Earth Tech’s Site reconnaissance and review of available environmental records, further investigation is required to address this REC. Potential or Suspected Impacts: Surface Soils								

* Investigative methods included the following: GP = geophysical surveys; SG = soil gas screening, TP = test pit excavation; SS = soil sampling; MW = monitoring well installation; GW = groundwater sampling; WL = water-level measurement

** These findings include Phase II Investigation and Supplemental Investigation

FIGURES

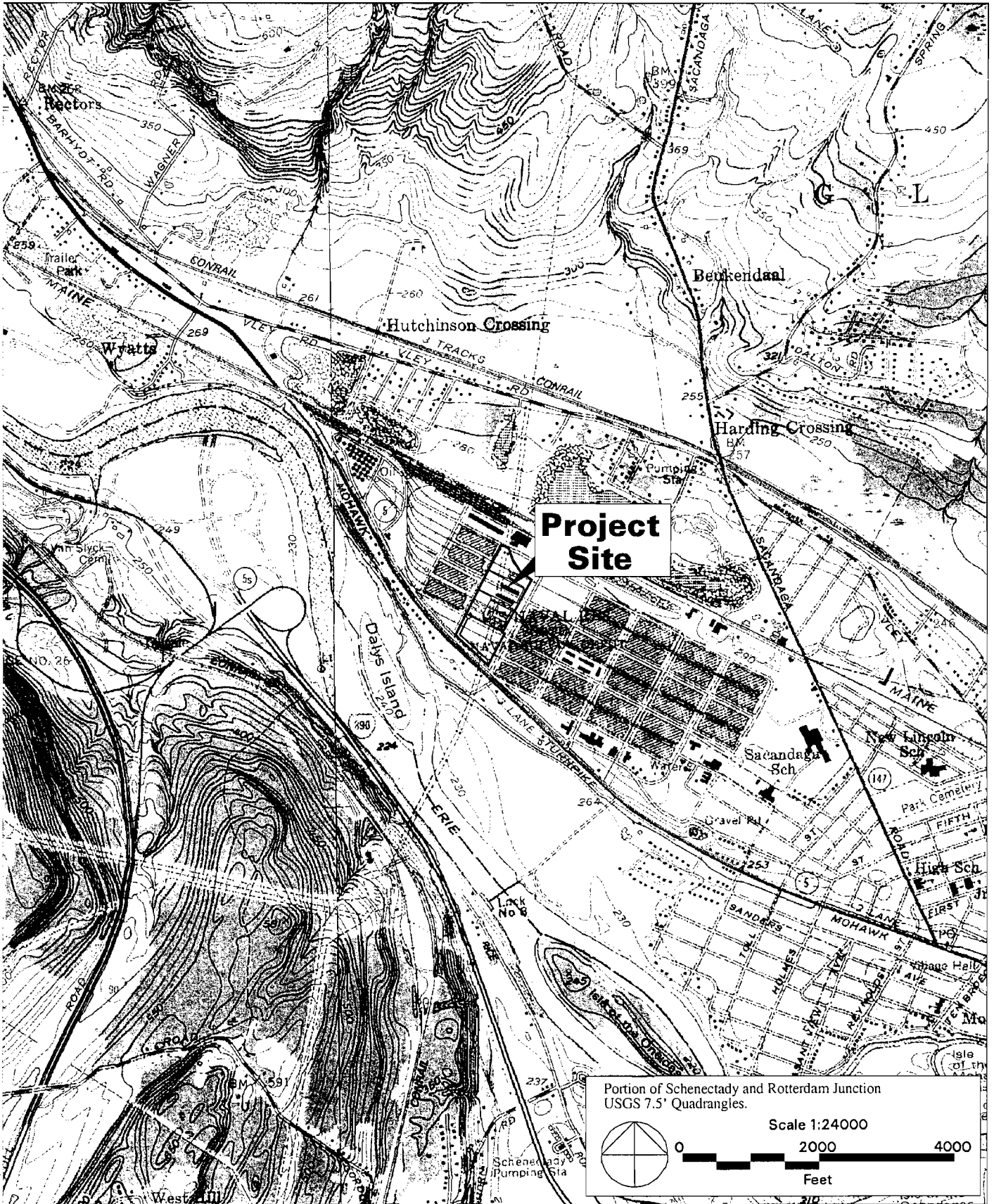
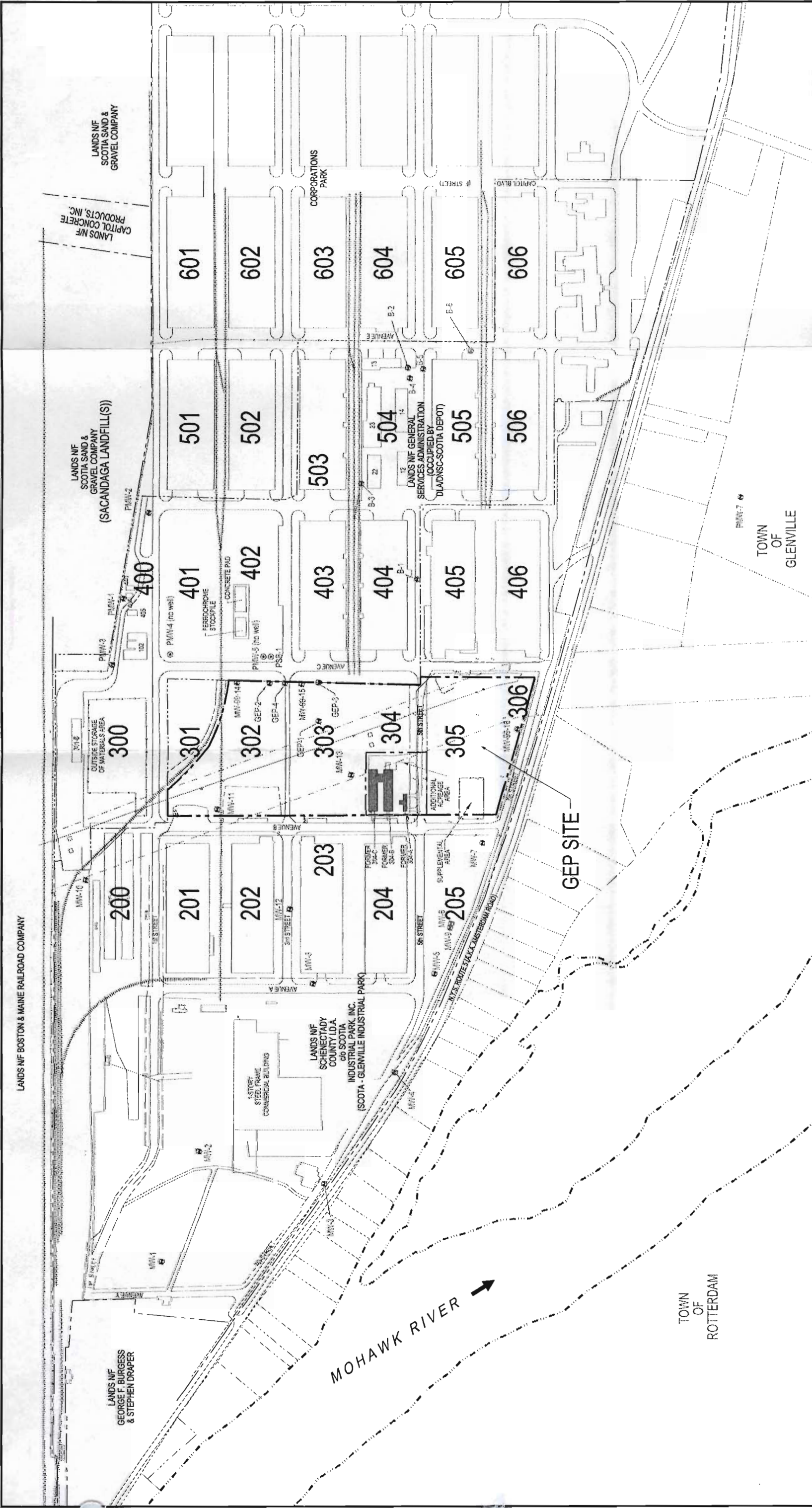


Figure 1
Site Location Map



This Plan Was Compiled In Part From A Plan Entitled, "Survey Portion of Lands Formerly of Scotia Industrial Park, Inc., Prepared For Galesi Group Town of Glenville, County of Schenectady, N.Y." - dated December 14, 1992, Most Recently Revised 9-10-99, As Prepared By C.T. Male Associates, P.C. Latham, New York

Horizontal control used for this project were control points established by the NYSDOT, i.e. BL-6 and BL-7.
BL-6 North - 1452409.2350 / East - 627462.8670
BL-7 North - 1451647.9250 / East - 627975.6520
Vertical datum shown is referenced to NGVD 1929, Monument G444 with an elevation of 276.21 ft. All site survey information provided by CT Male Associates, PC of Latham, New York.

KEY

- GEP Site Boundary
- Additional Acreage Area Boundary
- Property Boundary

MMW-1 Existing Monitoring Well Location (i.e., B-1, MMW-13, MMW-15, MMW-14, and GEP-1)
MMW-2 Sol Spring (i.e., MMW-4, MMW-5, and PSS-1)

Figure 2

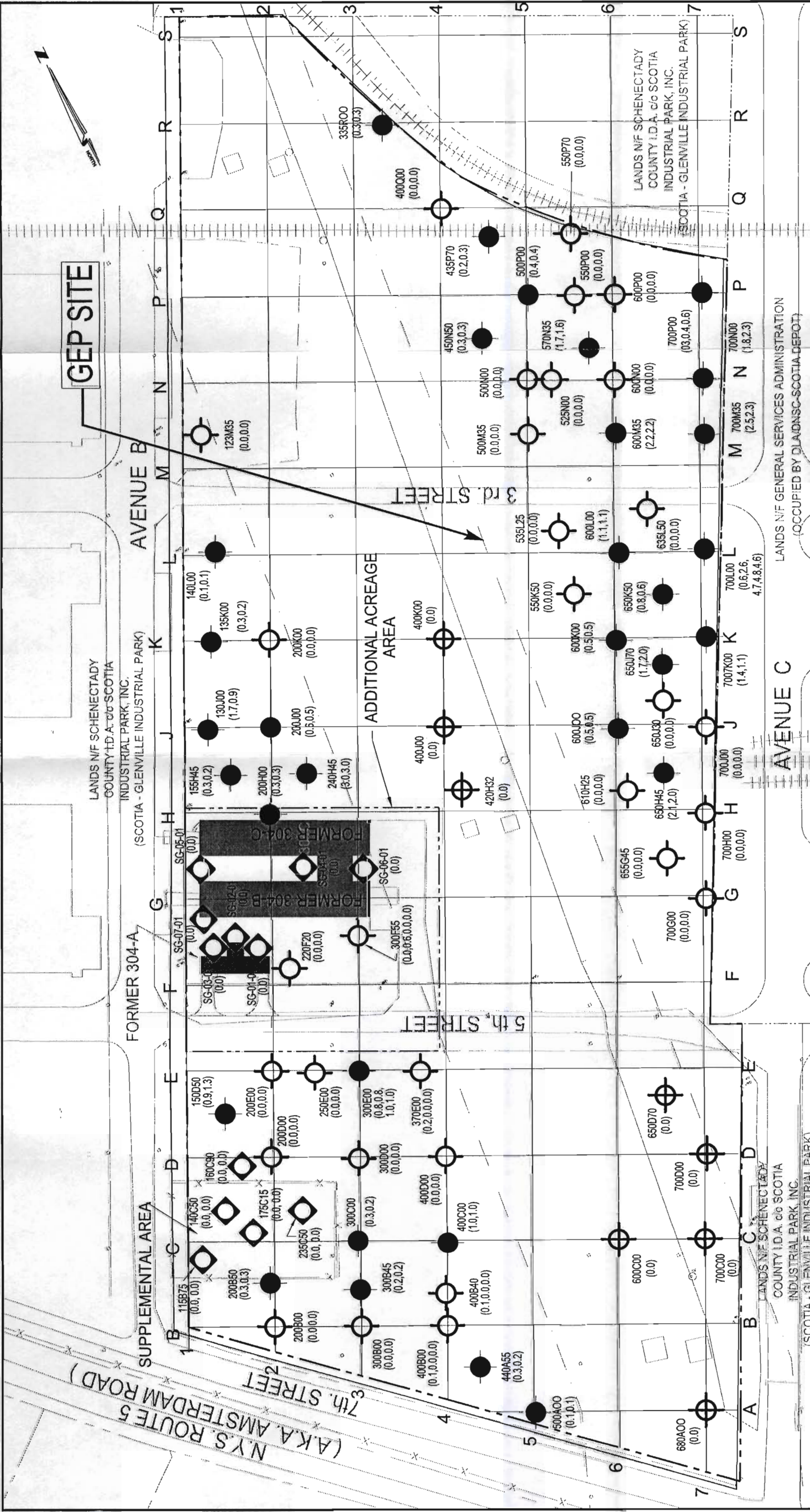
Site Plan with Location of Sub-Blocks

GLENVILLE ENERGY PARK, L.L.C.
300 BLOCK
SCOTIA - GLENVILLE INDUSTRIAL PARK
Glenville, New York

EARTHTECH
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0 100' 200' 400'
SCALE

January 2002 37089



Notes:

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KEY

--- GEP SITE BOUNDARY
--- ADDITIONAL ACREAGE AREA BOUNDARY
--- PROPERTY BOUNDARY

● 700M35 (2.5,2.3) SOIL GAS SAMPLING LOCATION WITH VOCs DETECTED IN HEADSPACE SCREENING. (OCTOBER 13 & 19, 1999)

◊ 400K00 (0.0) SOIL GAS SAMPLING LOCATION WITH NO VOCs DETECTED IN HEADSPACE SCREENING. (DECEMBER 17, 1999)

○ 700J00 (0.0,0.0) SOIL GAS SAMPLING LOCATION WITH NO VOCs DETECTED IN HEADSPACE SCREENING. (AUGUST 10, 2001 & JANUARY 14, 2002)

Figure 4

Site Plan with Soil Gas

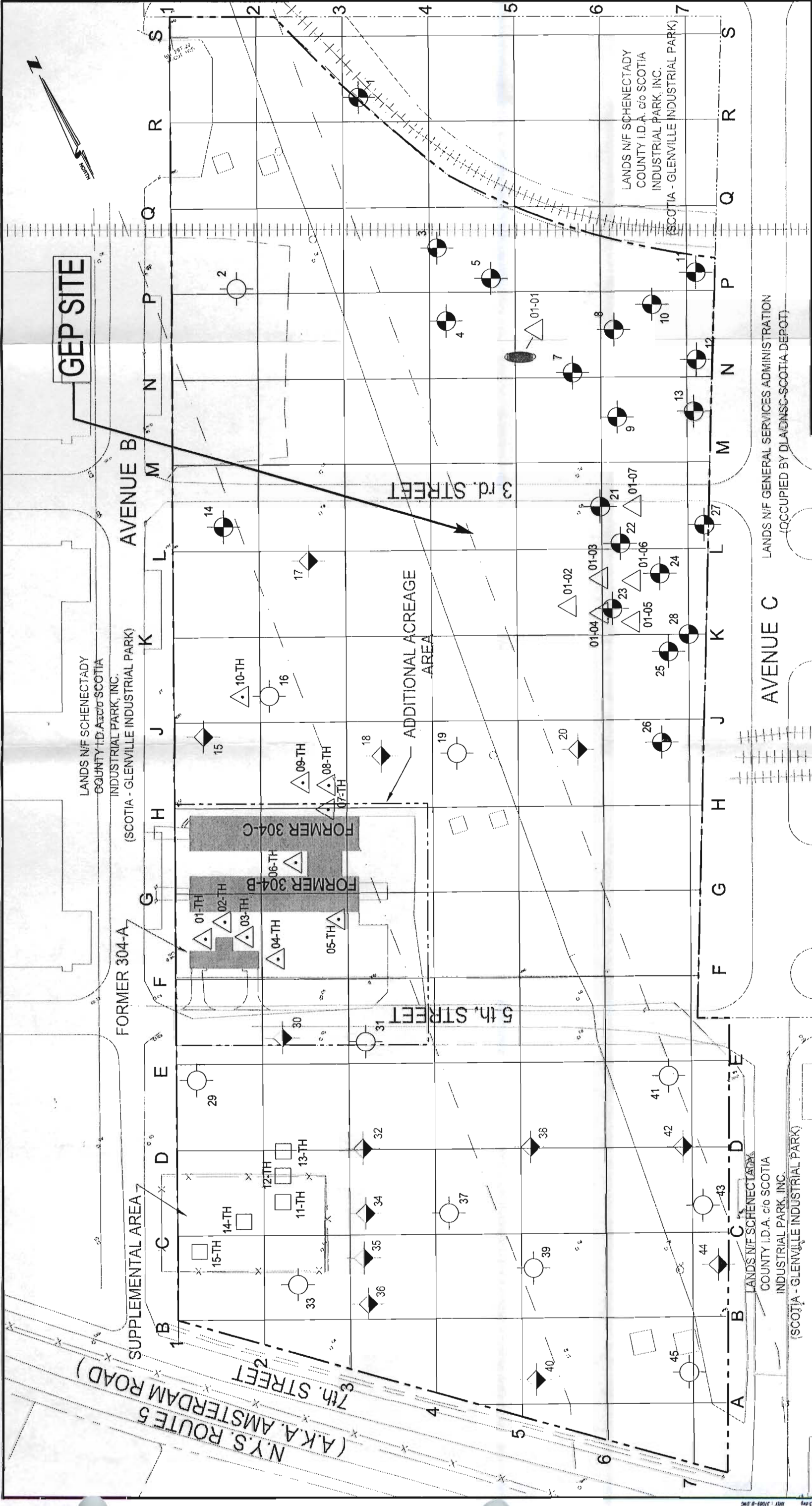
Survey Results

EARTH TECH
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0 25 50 100
SCALE

JANUARY 2002 37089

GLENVILLE ENERGY PARK, L.L.C.
300 BLOCK
SCOTIA - GLENVILLE INDUSTRIAL PARK
Glenville, New York



Notes:

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Horizontal control used for this project were control points established by the NYSDOT, i.e. BL-6 and BL-7.
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KEY

- GEP SITE BOUNDARY
- ADDITIONAL ACREAGE AREA BOUNDARY
- PROPERTY BOUNDARY
- TEST PIT LOCATION (OCTOBER 21 & 22, 1999)
- TEST PIT LOCATION (DECEMBER 17, 1999)
- TEST PIT WAIVED FROM CONSIDERATION (NOVEMBER 2, 1999)
- TEST PIT LOCATION (JUNE 13, 2001)
- TEST PIT LOCATION (AUGUST 10, 2001)
- TEST PIT LOCATION (JANUARY 14, 2002)

Figure 5

Site Plan with Location of Test Pits

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GLENVILLE ENERGY PARK, L.L.C.

300 BLOCK

SCOTIA - GLENVILLE INDUSTRIAL PARK

Glenville, New York

0' 25' 50' 100'

SCALE

JANUARY 2002

37089



Notes:

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Horizontal control used for this project were control points established by the NYSDOT, i.e. BL-5 and BL-7.

BL-6 North - 1462409.2350 / East - 627462.8670

BL-7 North - 1461647.9250 / East - 627975.6520

Vertical datum shown is referenced to NGVD 1929, Monument G444 with an elevation of 276.21 ft. All site survey information provided by CT Male Associates, PC of Latham, New York.

KEY

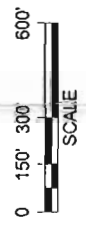
- MW-3 226.35' Monitoring Well Location (NYSDOT) With Corresponding Groundwater Elevation (6-21-01)
- MW-99-14 230.83' Monitoring Well Location (EARTH TECH) With Corresponding Groundwater Elevation (6-21-01)
- PMW-1 232.46' Monitoring Well Location (PARSONS) With Corresponding Groundwater Elevation (6-21-01)
- Groundwater Flow Direction
- Groundwater Elevation Contour Contour Interval: One Foot (Contours Dashed Where Inferred)

- GEP Site Boundary
- Additional Acreage Area Boundary
- Property Boundary

Figure 6

GROUNDWATER ELEVATION
CONTOUR MAP (June 21, 2001)
-NAVIGATION SEASON-

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January 2002 37089

GLENVILLE ENERGY PARK, L.L.C.
300 BLOCK
SCOTIA - GLENVILLE INDUSTRIAL PARK
Glenville, New York

Figure 8

TCE Concentration Gradient in Monitoring Wells Along the Approximate Axis of the Plume

Glenville Energy Park, L.L.C.
Glenville, New York

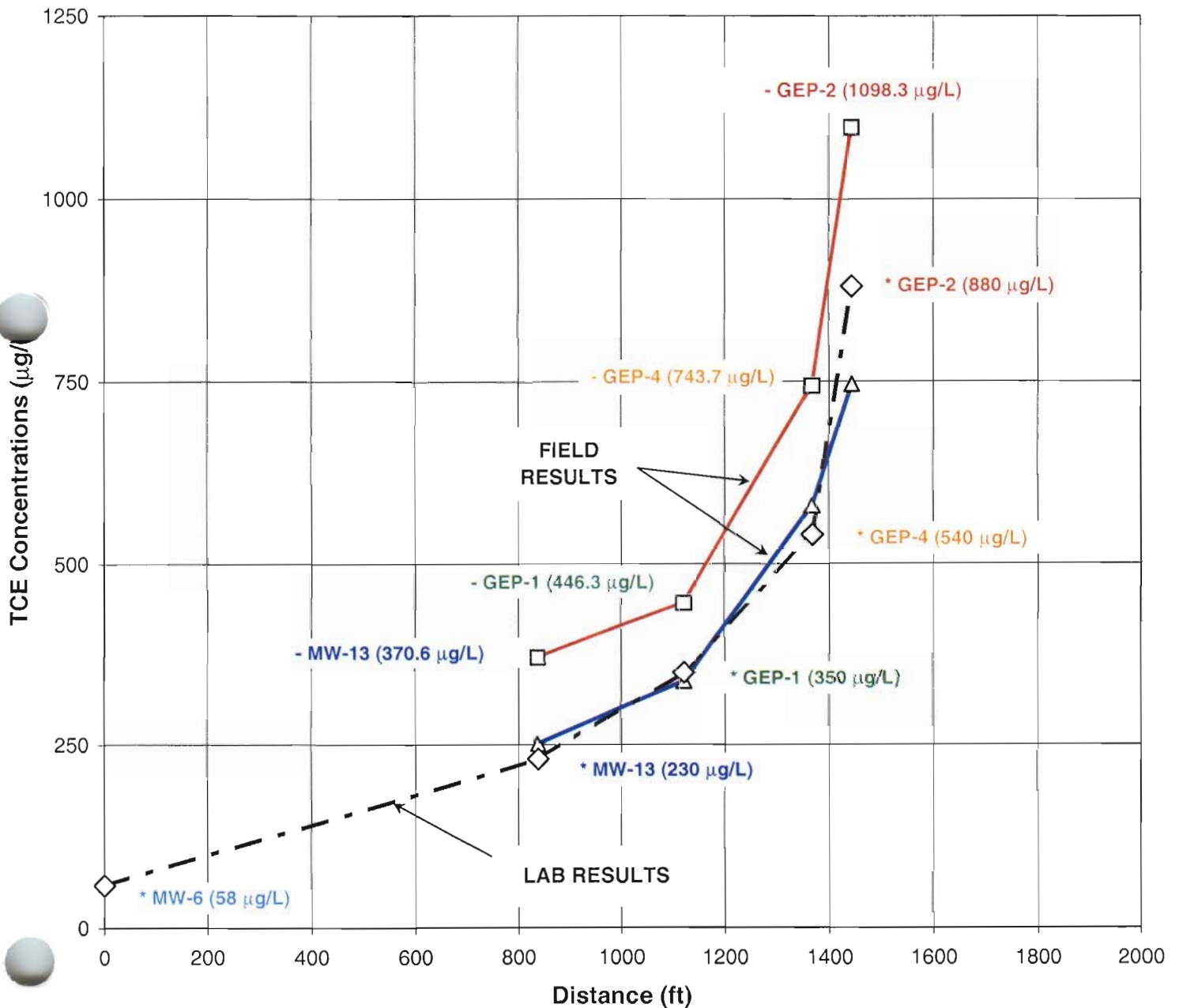
Notes:

$\mu\text{g/L}$ = micrograms per liter or parts per billion (ppb)

Distance is Based on a Projection of a Straight Line

- : Indicates Maximum Field Concentration

* : Indicates Laboratory Analytical Values



—△— Minimum Field GC Results —□— Maximum Field GC Results —◇— Validated Analytical Laboratory Results

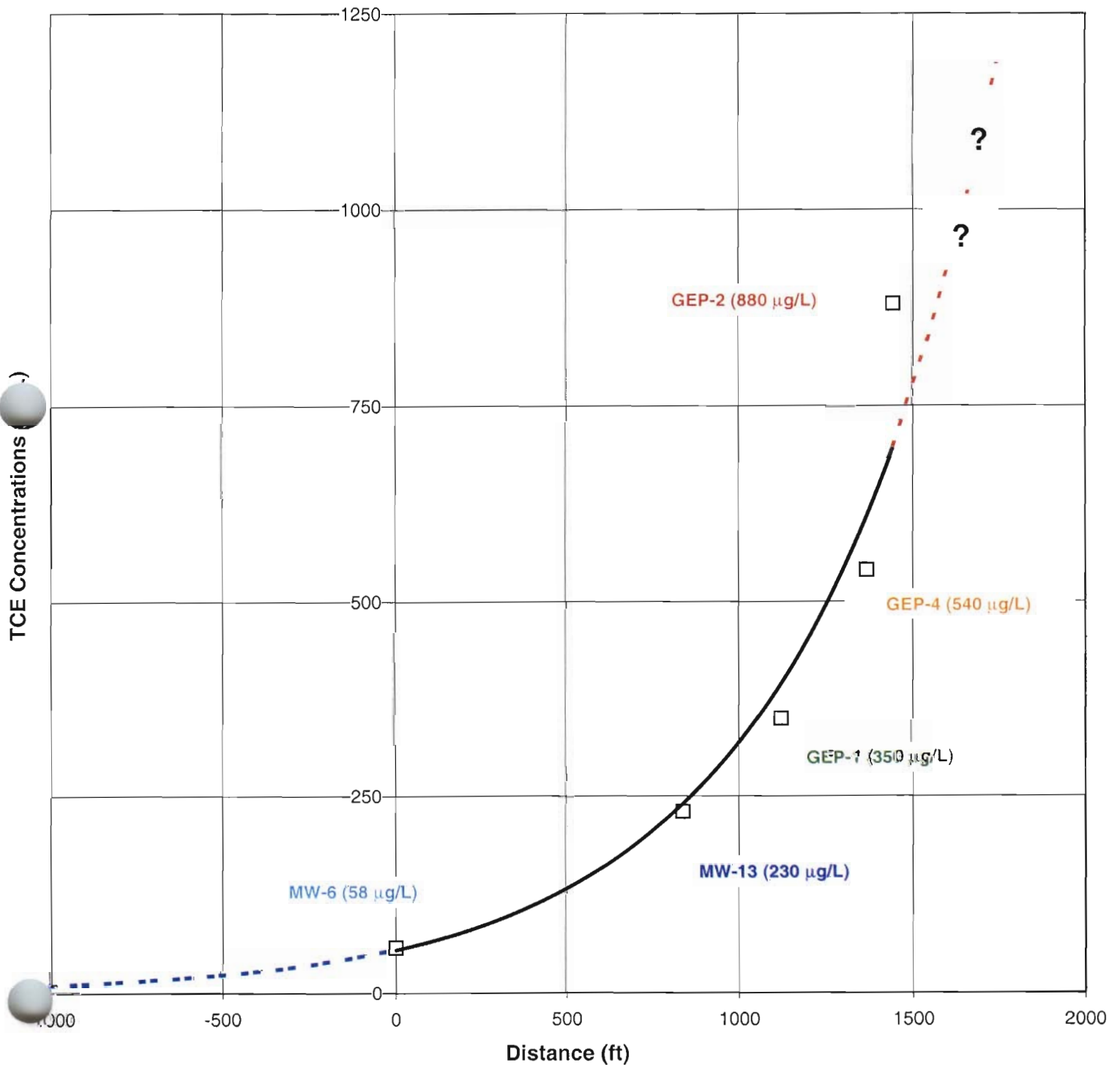
Figure 9 TCE Concentrations along Axis of Plume (June 20, 2001)

Glenville Energy Park, L.L.C.
Glenville, New York

Notes:

$\mu\text{g/L}$ = micrograms per liter or parts per billion (ppb)

Distance is Based on a Projection of a Straight Line



□ Validated Analytical Results - - - Downgradient of SGIP - - - Upgradient of GEP Site — Exponential Trend

Figure 10

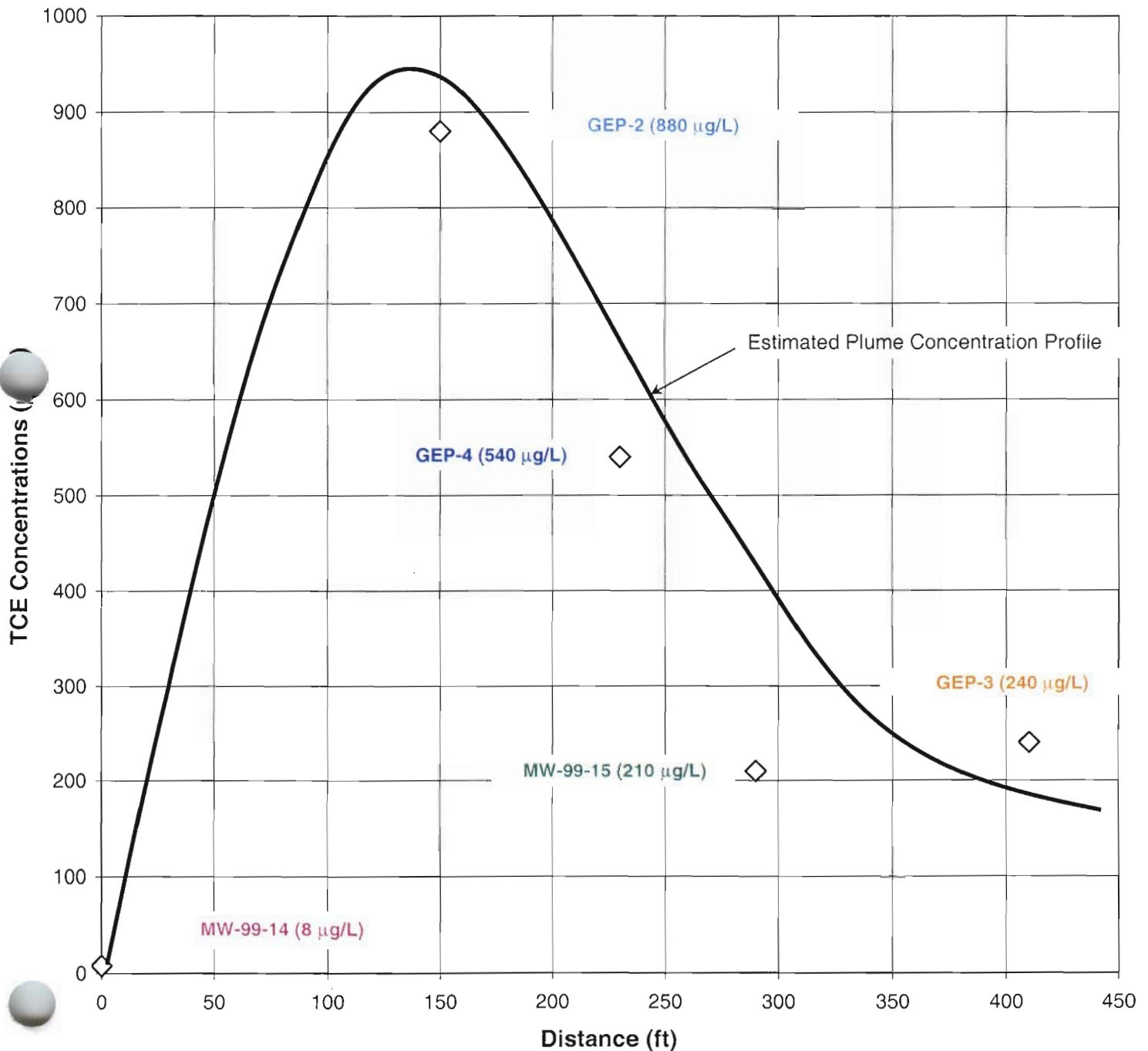
TCE Concentrations along Eastern Project Site Boundary (June 20, 2001)

Glenville Energy Park, L.L.C.
Glenville, New York

Notes:

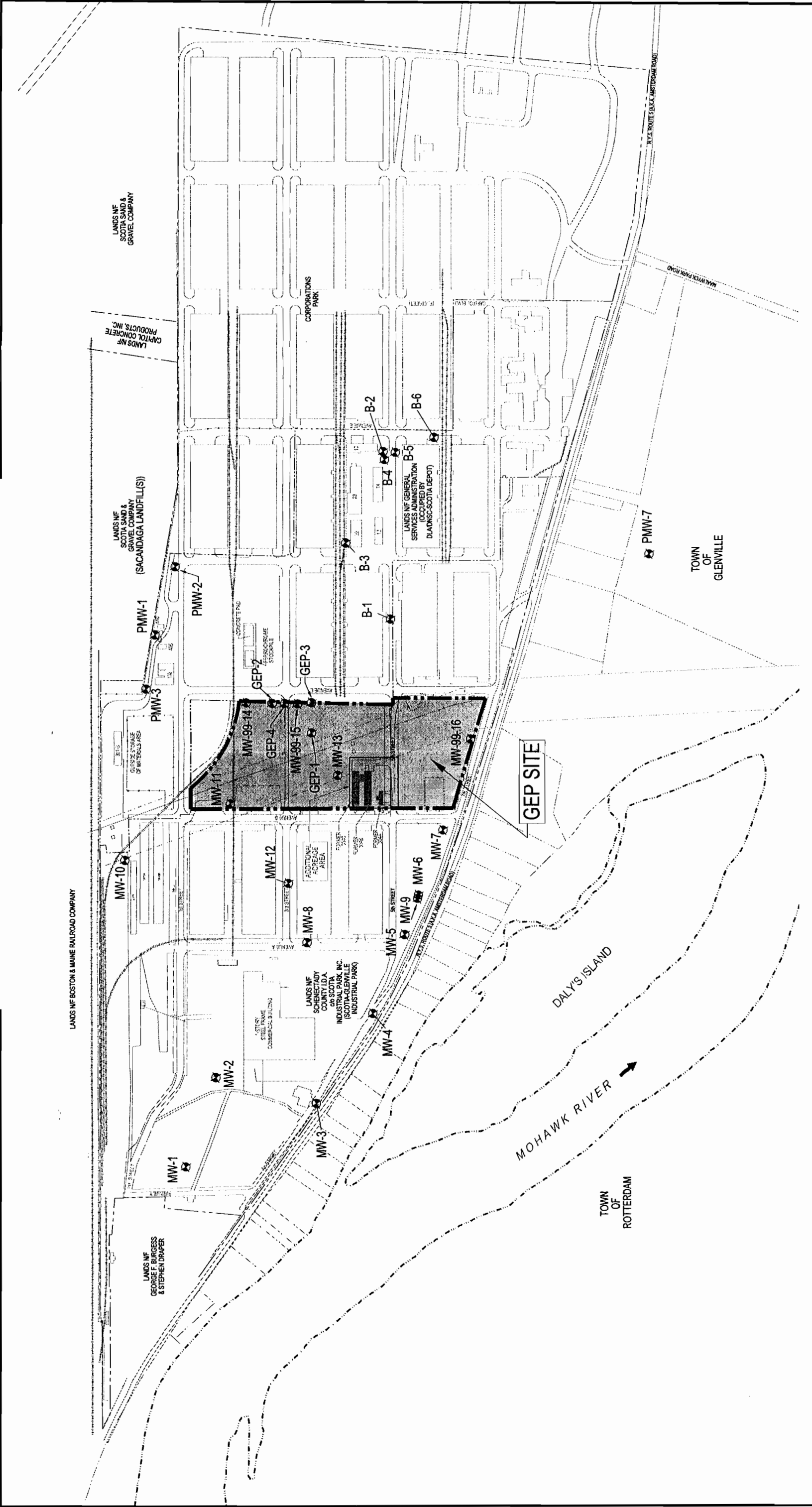
$\mu\text{g/L}$ = micrograms per liter or parts per billion (ppb)

Distance is Based on a Projection of a Straight Line



◇ Validated Analytical Laboratory Results

PLATES



Notes:

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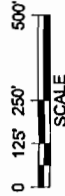
Horizontal control used for this project were control points established by the NYSDOT, i.e. BL-6 and BL-7.
BL-6 North - 1462409.2350 / East - 627462.8670
BL-7 North - 1461647.9250 / East - 627975.6520
Vertical datum shown is referenced to NGVD 1929, Monument G444 with an elevation of 276.21 ft. All site survey information provided by C.T. Male Associates, PC of Latham, New York.

KEY

- Existing Monitoring Well Location (e.g. B-4, MW-1, MW-99-14, PMW-7, and GEP-1)
- GEP Site Boundary
- Additional Acreage Area Boundary
- Property Boundary

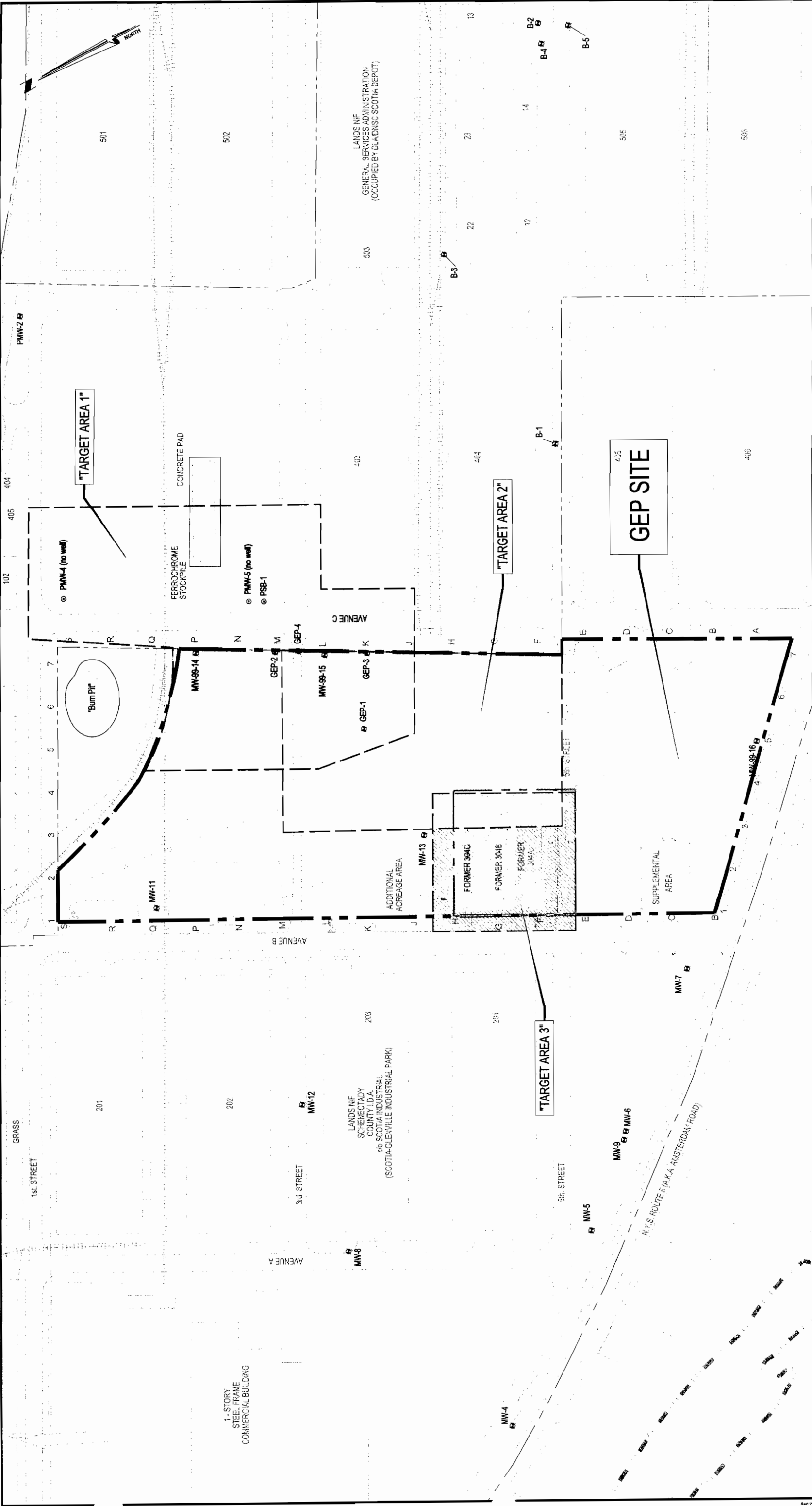
EARTH TECH
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Plate 1
Industrial Park
Map



January 2002 37089

GLENVILLE ENERGY PARK, L.L.C.
300 BLOCK
SCOTIA - GLENVILLE INDUSTRIAL PARK
Glenville, New York



NOTES:

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Vertical datum shown is referenced to NGVD 1929, Monument G444 with an elevation of 276.21 ft. All site survey information provided by CT Male Associates, PC of Latham, New York.

KEY

TARGET AREA 1 - EM-31 survey with focused GPR

TARGET AREA 2 - GPR survey within footprint of proposed power plant and cooling towers

TARGET AREA 3 - EM-31 survey with focused GPR

EM (Electromagnetic Induction) - Geophysical Technique that can locate both metal objects and zones of contamination

GPR (Ground Penetrating Radar) - Provides continuous profile of the subsurface and is commonly used in conjunction with EM

MW-3 Monitoring Well Location (NYSDEC)

MW-9-14 Monitoring Well Location (EARTH TECH)

PMW-1 Monitoring Well Location (PARSONS)

PSB-1 Soil Boring Location (PARSONS)

KEY

GEP Site Boundary

Additional Acreage Area Boundary

Property Boundary

EARTH TECH

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January 2002

37089

Plate 2

LOCATION OF GEOPHYSICAL SURVEY AND MONITORING WELLS

GLENVILLE ENERGY PARK, L.L.C.

300 BLOCK

SCOTIA - GLENVILLE INDUSTRIAL PARK

Glenville, New York

APPENDIX A

Geophysical Survey Report (Hager-Richter Geoscience, Inc., August 2001)

**GEOPHYSICAL SURVEY
SCOTIA/GLENNVILLE INDUSTRIAL PARK
SCOTIA, NEW YORK**

Prepared for:

Earth Tech, Inc.
12 Metro Park Road
Albany, New York 12205

Prepared by:

Hager-Richter Geoscience, Inc.
8 Industrial Way - D10
Salem, New Hampshire 03079

File 01J61
August, 2001

HAGER-RICHTER GEOSCIENCE, INC.

CONSULTANTS IN GEOLOGY & GEOPHYSICS

8 INDUSTRIAL WAY - D10
SALEM, NEW HAMPSHIRE 03079

TELEPHONE (603) 893-9944
FAX (603) 893-8313

August 30, 2001

File 01J61

Mr. Mark Williams
Earth Tech, Inc.
12 Metro Park Road
Albany, New York 12205

RE: Geophysical Survey
Scotia/Glenville Industrial Park
Scotia, New York

Dear Mr. Williams:

In this letter, we report the results of a reconnaissance geophysical survey conducted by Hager-Richter Geoscience, Inc. (H-R) at the Scotia/Glenville Industrial Park in Scotia, New York for Earth Tech, Inc. (Earth Tech) on June 6-8, 2001 and August 15-16, 2001. Hager-Richter had previously conducted a geophysical survey at the site in October, 1999. The 1999 area of the 1999 survey and 2001 survey overlap and the results of both surveys are included herein. The scope of the project and area of interest were specified by Earth Tech. The reconnaissance geophysical survey is part of an environmental investigation by Earth Tech.

Introduction

The Site is a former U.S. Navy Supply Depot located in Scotia, New York. The general location of the Site is shown in Figure 1. The Site is an approximately 30-acre, generally open area consisting of grassy and asphalt paved areas. Rail spurs cross the northern end of the Site and several known utilities, including an overhead 115KV transmission line and underground gas line, cross the Site.

The area of interest for the 1999 H-R survey is bounded by the northern-most rail spur, by Avenue B on the west side, by Avenue C and the fence line on the east, and by 7th Street on the south. The 1999 survey consisted of an electromagnetic induction terrain conductivity survey with lines spaced at 20-foot intervals and data stations at about 2-foot intervals along the survey lines. The objective of the 1999 survey was to reconnoiter for areas of former structures, utilities, and buried metal in accessible portions of the area of interest specified by Earth Tech and shown on Plate 1 as the 1999 Geophysical Survey Area, and if such were detected, to locate each. Several areas of anomalously conductive ground and areas of buried metal were detected by the survey and the

discussion of such features are included in our report entitled "Reconnaissance Geophysical Survey, Scotia/Glenville Industrial Park, Scotia, New York," dated October 18, 1999.

The 2001 survey includes portions of the 1999 survey area and also extends to the east into an area used for a ferrochrome stockpile. Earth Tech specified that the 2001 survey include the following: (1) an electromagnetic terrain conductivity (EM) survey conducted along lines spaced 10-feet apart followed by a focused ground penetrating radar (GPR) survey at the locations of detected EM anomalies in an area identified by Earth Tech as Target Area 1; (2) a GPR survey with traverses spaced at 10-foot intervals in an area identified by Earth Tech as Target Area 2; and (3) as time and access allowed, a GPR survey with traverses spaced at 10-foot intervals at the location of former Quonset Buildings (the Quonset Buildings were demolished between the first and second mobilizations in 2001) located in the southwest portion of the Site, identified by Earth Tech as Target Area 3. Plate 1 is a Site Plan showing the locations of features at the Site.

Objective

The objective of the 2001 survey was to search for areas of former structures, utilities, and buried metal in accessible portions of the three target areas specified by Earth Tech, and if such were detected, to locate each.

The Survey

Steven Grant, James Coffman and Mohammed Hayat of Hager-Richter conducted the field operations. The project was coordinated with Mr. Mark Williams of Earth Tech. The survey grid and conventions were established by C. T. Male, Associates, P.C. Preliminary results of the survey conducted in June, 2001 were provided to Earth Tech in July, 2001. The field survey was completed after the demolition and partial removal of the Quonset Buildings in late July.

The geophysical survey was conducted using two geophysical methods: electromagnetic terrain conductivity (EM) and ground penetrating radar (GPR). The EM data for the 2001 were collected at approximately 2-foot intervals along lines spaced 10 feet apart across Target Area 1. This line spacing is twice as dense as the 1999 survey for which the line spacing was 20 feet apart as specified by Earth Tech. The EM survey detects and outlines areas containing anomalously conductive ground and buried metal. However, the EM method cannot provide information on the type of objects causing the EM anomaly. In order to aid in the identification of the objects, a focused GPR survey was conducted at the locations of anomalies detected by the EM where the anomaly could not be readily attributed to a surface object or known subsurface object for Target Area 1.

For Target Areas 2 and 3, Earth Tech specified that only GPR data be acquired. EM data had been acquired for these areas during the 1999 survey. GPR data for Target Area 2 were acquired along traverses oriented parallel to the long axis of the site and spaced at 10-foot intervals. GPR data

for Target Area 3 were acquired where time and access allowed. Debris piles created during the demolition of the Quonset Buildings were present in Target Area 3 and significantly slowed the geophysical survey in this area, and after consultation with Earth Tech, the survey was discontinued due to time constraints.

Equipment

EM. The EM survey was conducted using a Geonics EM31 terrain conductivity meter. The 12-foot long boom of the EM31 terrain conductivity meter was oriented perpendicular to the traverse lines where possible. Data were recorded in the vertical dipole mode (nominal depth of exploration of 18 feet) for both the quadrature phase component (apparent conductivity) and in-phase component.

Apparent conductivity data were re-measured along a baseline several times during each field day to check for instrument drift and to relate the 1999 data to the 2001 data. Some minor drift was detected in the data and was corrected for in the plots contained in this report.

GPR. The GPR survey was conducted using a Geophysical Survey Systems SIR-2 digital GPR system equipped with a survey wheel to trigger recording of data at equal horizontal distances. The GPR system was used with a 500 MHz antenna and a 60 nsec time window. The GPR traverses were spaced no more than 10 feet apart. Data were acquired in the accessible portions of the specified areas of interest.

Limitations of the Methods

EM. The data recorded for EM surveys are affected by ferrous and non-ferrous metal objects. In particular, metal objects above ground, such as rails, fences, and vehicles, can so influence the EM fields that the effects of buried metal objects, if any, at the same location are "masked." Thus, where EM anomalies can be attributed to surface metal objects, the presence or absence of buried metal objects cannot be determined from the data alone. Where the metal objects are relatively small, the instrument must be located within a few feet of the objects in order to detect them.

The depth of investigation of the EM instrument is a function of the inter-coil spacing and the orientation of the dipole. The nominal depth of exploration is generally estimated as 3/4 times the inter-coil spacing for the horizontal dipole mode, and 1.5 times the inter-coil spacing for the vertical dipole mode. The intercoil spacing for the EM instrument used for this survey is 12 feet and the data were collected in the vertical dipole mode. Thus, for this survey, the depth of investigation is approximately 18 feet below the ground surface.

Detection and identification should be clearly differentiated. Detection is the recognition of the presence of a magnetic object, and both the magnetic and EM methods are excellent for such purposes. Identification, on the other hand, is determination of the nature of the causative body (i.e., what is the body -- a cache of drums, UST, automobile, white goods, etc.?), and the methods used cannot identify the buried metal object.

GPR. There are limitations of the GPR technique as used to detect and/or locate targets such as those of the objectives of this survey: (1) surface conditions, (2) electrical conductivity of the ground, (3) contrast of the electrical properties of the target and the surrounding soil, and (4) spacing of the traverses. Of these restrictions, only the last is controllable by us.

The condition of the ground surface can affect the quality of the GPR data and the depth of penetration of the GPR signal. Sites covered with snow piles, high grass, bushes, landscape structures, debris, obstacles, soil mounds, etc. limit the survey access and the coupling of the GPR antenna with the ground. In many cases, the GPR signal will not penetrate below concrete pavement, especially inside buildings, and a target may not be detectable. The GPR method also commonly does not provide useful data under canopies found at some facilities.

The electrical conductivity of the ground determines the attenuation of the GPR signals, and thereby limits the maximum depth of exploration. For example, the GPR signal does not penetrate clay-rich soils, and targets buried in clay might not be detected.

A definite contrast in the electrical conductivities of the surrounding ground and the target material is required to obtain a reflection of the GPR signal. If the contrast is too small then the reflection may be too weak to recognize, possibly due to deeply corroded metal in the target, the target can be missed.

Spacing of the traverses is limited by access at many sites, but where flexibility of traverse spacing is possible, the spacing is adjusted to the size of the target.

Results

General. The geophysical survey conducted at the Scotia/Glenville Industrial Park in Scotia, New York consisted of an EM and GPR survey in areas specified by Earth Tech. The data for the combined 1999 and 2001 EM surveys are presented as color contour plots of the apparent conductivity and in-phase component in Plates 2 and 3, respectively. Plate 4 shows the locations of the GPR survey and the integrated interpretation of the geophysical data. As stated previously, both the data and interpretation from the 1999 and 2001 surveys are provided. We note that the interpretation of the data for the area included in both the 1999 and 2001 surveys has been modified slightly herein due to the significantly higher data density of the 2001 survey.

EM. Terrain conductivity data are useful for detecting the presence of anomalously conductive ground, which might be caused by the presence of objects with properties unlike those of the natural materials on site, such as utilities or buried metal. The in-phase component data, on the other hand, are *only* used to interpret the presence of metal objects.

Background apparent conductivity values range from 0 to 2 mmho/m north of 5th Street and from 2 to 4 mmho/m south of 5th Street. In-phase component values range from 0 to 2 ppt across the entire Site. As can be seen on Plates 2 and 3, most of the area exhibits apparent conductivity and in-phase component values that are within the background range.

Metal objects, whether buried or above ground, produce anomalously high or low apparent conductivity and in-phase component values in EM surveys. Most of the high amplitude EM anomalies evident in Plates 2 and 3 are associated with surface features such as buildings, known utilities such as a gas line and the overhead electric transmission lines, the ferrochrome storage pile, and storage trailers. Such areas are shown as black stippled areas on Plate 4. In such areas, the presence or absence of buried metal cannot be determined on the basis of the EM data, due to the effects of the surface metal.

Several areas exhibiting anomalously elevated apparent conductivity and in-phase component values not associated with surface metal were detected. Many are linear, and are attributed to possible buried utilities, as shown on Plate 4. The remaining anomalies are identified as areas of possible buried metal and are shown as crosshatched areas on Plate 4. We note that the amplitudes of the anomalies are small and, therefore, the amount of buried metal associated with the anomalies may be small. In Target Area 1, GPR data were acquired at the locations of possible buried metal detected by the EM survey to aid in identifying the cause of the EM anomalies.

Several areas of the Site exhibit slightly anomalously high or low apparent conductivity values. Most of these areas coincide with either surface metal objects, interpreted possible buried metal, or possible utilities. The large area of elevated apparent conductivity located between the utility corridor and Avenue C does not correlate with either surface metal or significantly elevated in-phase component values indicating the presence of buried metal. The apparent conductivity anomaly at this location may be due to a change in soil composition, moisture content, or inclusion of non-native soils.

GPR. GPR data were acquired: (1) in Target Area 1 at locations where EM anomalies indicated the presence of buried objects; (2) across Target Area 2; and (3) in Target Area 3 as time and access allowed. The locations of the GPR traverses and the interpretation of the data are shown on Plate 4.

Several possible utilities, areas of disturbed ground, a possible trench, and unidentified buried objects (UBOs) were detected throughout the areas included in the GPR survey, and their locations

are shown on Plate 4. A linear anomaly typical of a large diameter feature was detected in Target Area 2 within the utility corridor. The location of the anomaly is roughly coincident with the location of a gas line as indicated by utility company markers at the surface. Although the diameter of the object detected by the GPR survey is apparently significantly larger than that expected for a gas line, we note that the GPR traverse is oriented oblique to the possible utility which causes the diameter of the feature as determined by the GPR data appear to be significantly larger than the actual diameter. The linear anomaly is interpreted as a possible utility and is shown on Plate 4. Figure 2 is an example of a GPR record collected across the linear anomaly. Figure 3 is an example of a GPR record collected across a possible former trench and utility. The locations of the GPR traverses shown in Figures 2 and 3 are shown in Plate 4.

Conclusions

Based on the results of the geophysical survey conducted by Hager-Richter Geoscience, Inc. at the Scotia/Glenville Industrial Park in Scotia, New York for Earth Tech, Inc. on June 6-8, 2001 and August 15-16, 2001, we conclude:

- Several areas of small amounts of buried metal are present at the Site.
- A large area of anomalously elevated apparent conductivity is present between the utility corridor and Avenue C representing a change in soil conditions, moisture content, or the presence of non-native soils.
- Several possible utilities, a filled trench, and unidentified buried objects are present in the survey area.

Limitations

This letter report was prepared for the exclusive use of Earth Tech, Inc. (Client). No other party shall be entitled to rely on this Report or any information, documents, records, data, interpretations, advice or opinions given to Client by Hager-Richter Geoscience, Inc. (H-R) in the performance of its work. The Report relates solely to the specific project for which H-R has been retained and shall not be used or relied upon by Client or any third party for any variation or extension of this project, any other project or any other purpose without the express written permission of H-R. Any unpermitted use by Client or any third party shall be at Client's or such third party's own risk and without any liability to H-R.

H-R has used reasonable care, skill, competence and judgment in the performance of its services for this project consistent with professional standards for those providing similar services at the same time, in the same locale, and under like circumstances. Unless otherwise stated, the work performed by H-R should be understood to be exploratory and interpretational in character and any

Geophysical Survey
Scotia/Glenville Industrial Park
Scotia, New York
File 01J61 August, 2001

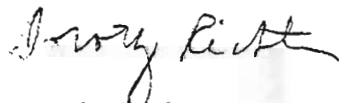
HAGER-RICHTER
GEOSCIENCE, INC.

results, findings or recommendations contained in this Report or resulting from the work proposed may include decisions which are judgmental in nature and not necessarily based solely on pure science or engineering. It should be noted that our conclusions might be modified if subsurface conditions were better delineated with additional subsurface exploration including, but not limited to, test pits, soil borings with collection of soil and water samples, and laboratory' testing.

Except as expressly provided in this limitations section, H-R makes no other representation or warranty of any kind whatsoever, oral or written, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed.

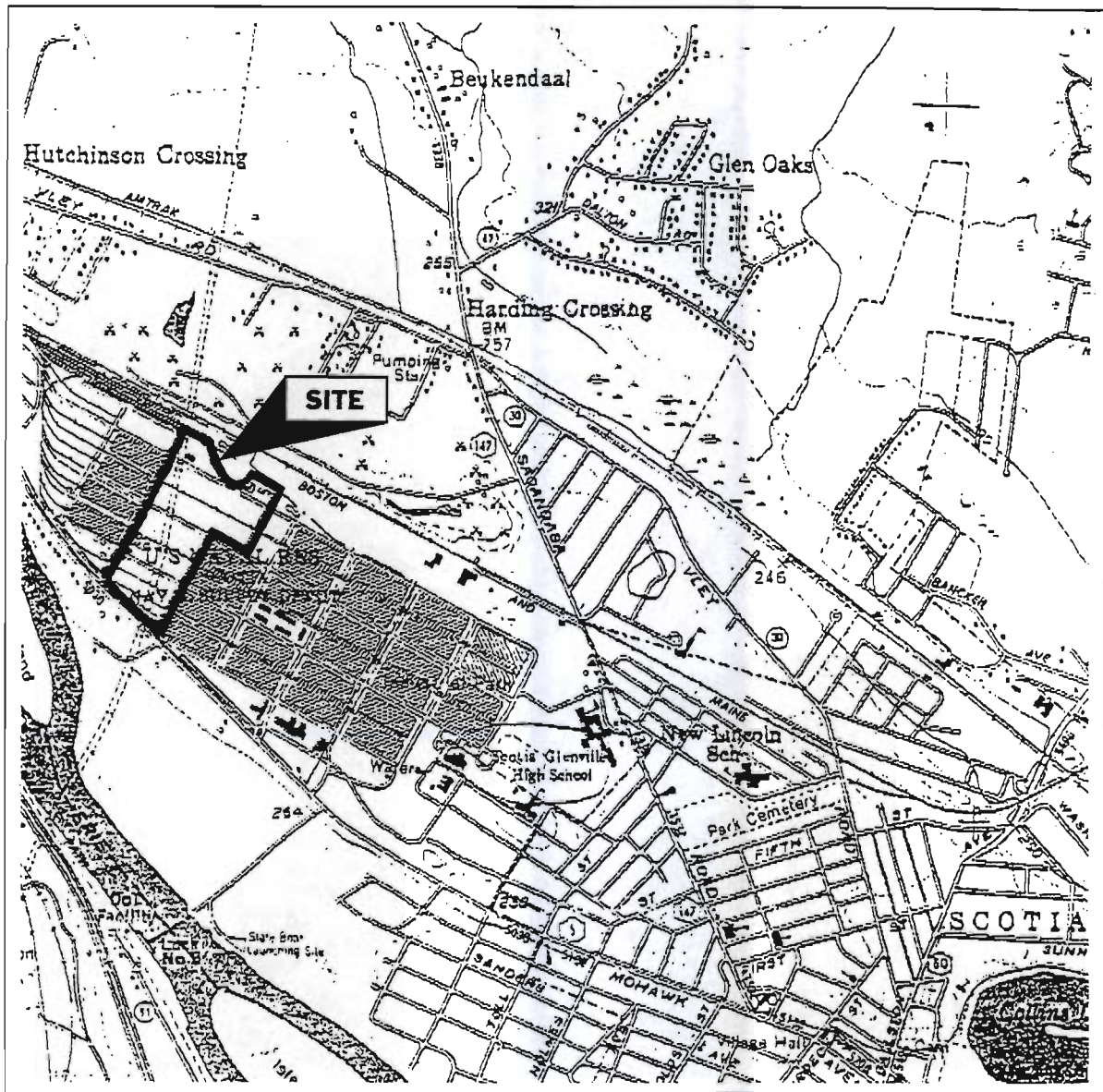
If you have any questions or comments on this letter report, please contact us at your convenience. It has been a pleasure to work with Earth Tech on this project. We look forward to working with you again in the future.

Sincerely yours,
HAGER-RICHTER GEOSCIENCE, INC.

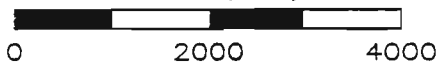


Dorothy Richter
President

Attachments: Figure 1-3 and Plates 1-4



SCALE (feet)



NOTE:

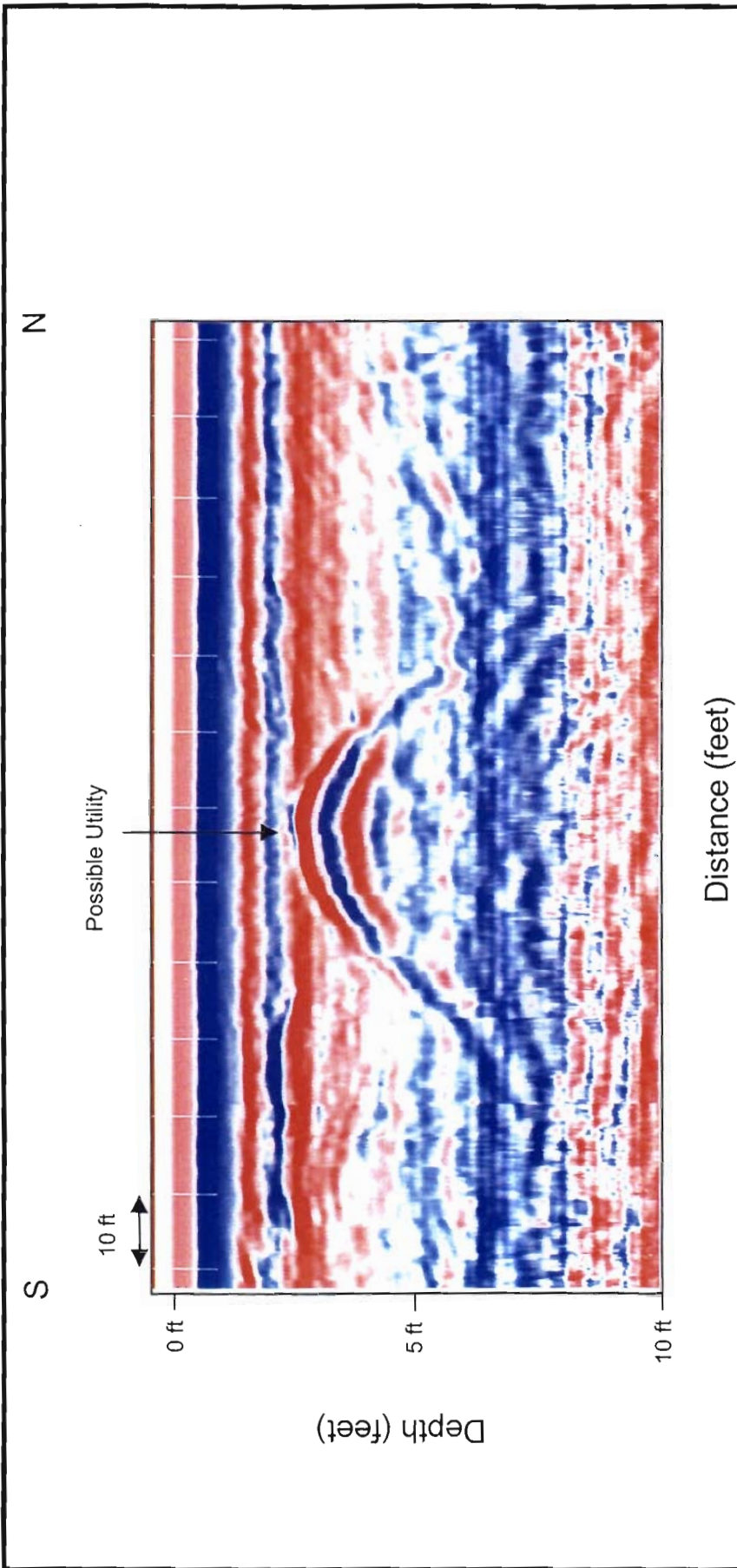
Modified from map provided by Earth tech, Inc.

Figure 1
General Site Location
Scotia/Glenville Industrial Park
Scotia, New York

File 01J61

August, 2001

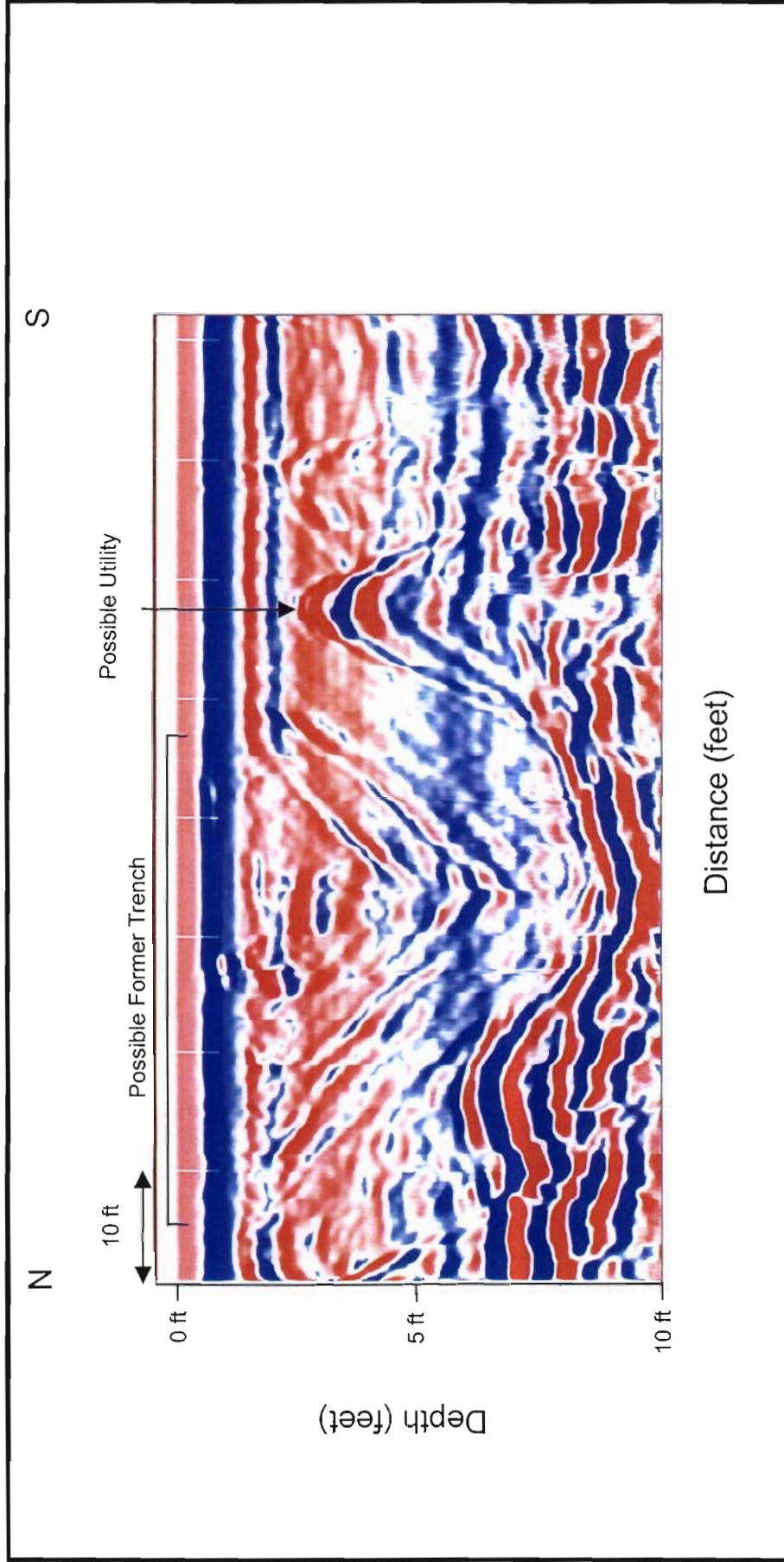
HAGER-RICHTER GEOSCIENCE, INC.
Salem, New Hampshire



NOTES:

1. The time-to-depth conversion for the GPR signal varies with the dielectric properties of the materials in the subsurface and is not necessarily uniform.
2. Shades represent relative amplitude of reflected signals. White is lowest amplitude; dark is highest amplitude.
3. Accuracy of distances along GPR record is approximately +/- 1 foot.

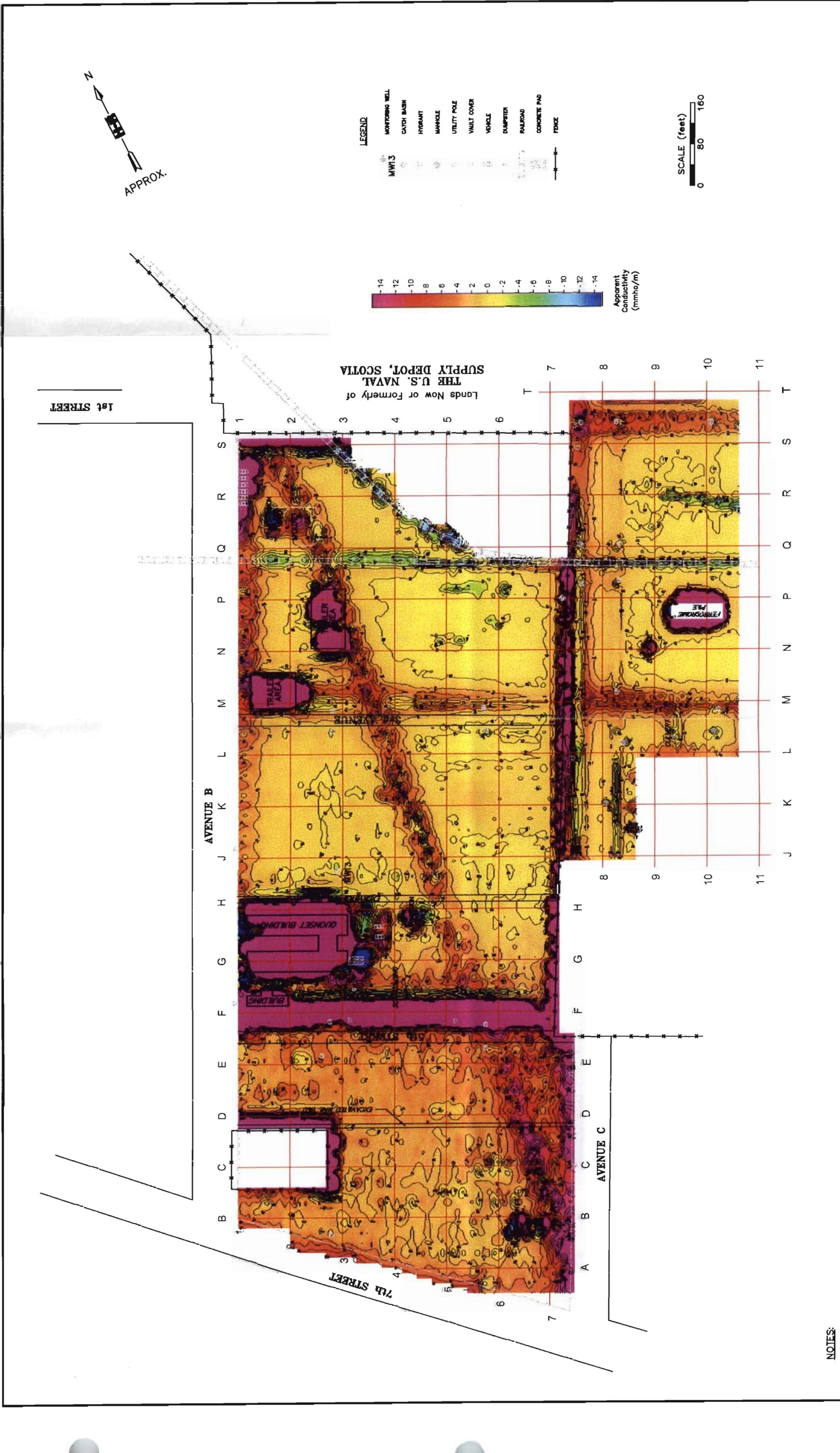
Figure 2		
GPR Record Across Possible Utility		
Scotia/Glenville Industrial Park		
Scotia, New York		
File 01J61	August, 2001	
HAGER-RICHTER GEOSCIENCE, INC.		
Salem, New Hampshire		



NOTES:

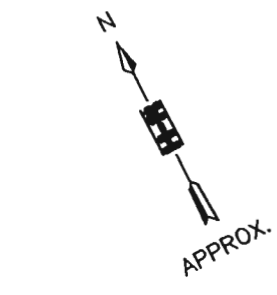
1. The time-to-depth conversion for the GPR signal varies with the dielectric properties of the materials in the subsurface and is not necessarily uniform.
2. Shades represent relative amplitude of reflected signals. White is lowest amplitude; dark is highest amplitude.
3. Accuracy of distances along GPR record is approximately +/- 1 foot.

Figure 3 GPR Record Across Possible Utility Scotia/Glenville Industrial Park Scotia, New York		
File 01J61	August, 2001	
HAGER-RICHTER GEOSCIENCE, INC. Salem, New Hampshire		



NOTES:

- 1. Modified from base plan provided by C.T. Male Associates, P.C.
- 2. Data were recorded with EM31 in vertical dipole mode with boom perpendicular to traverse line where possible.

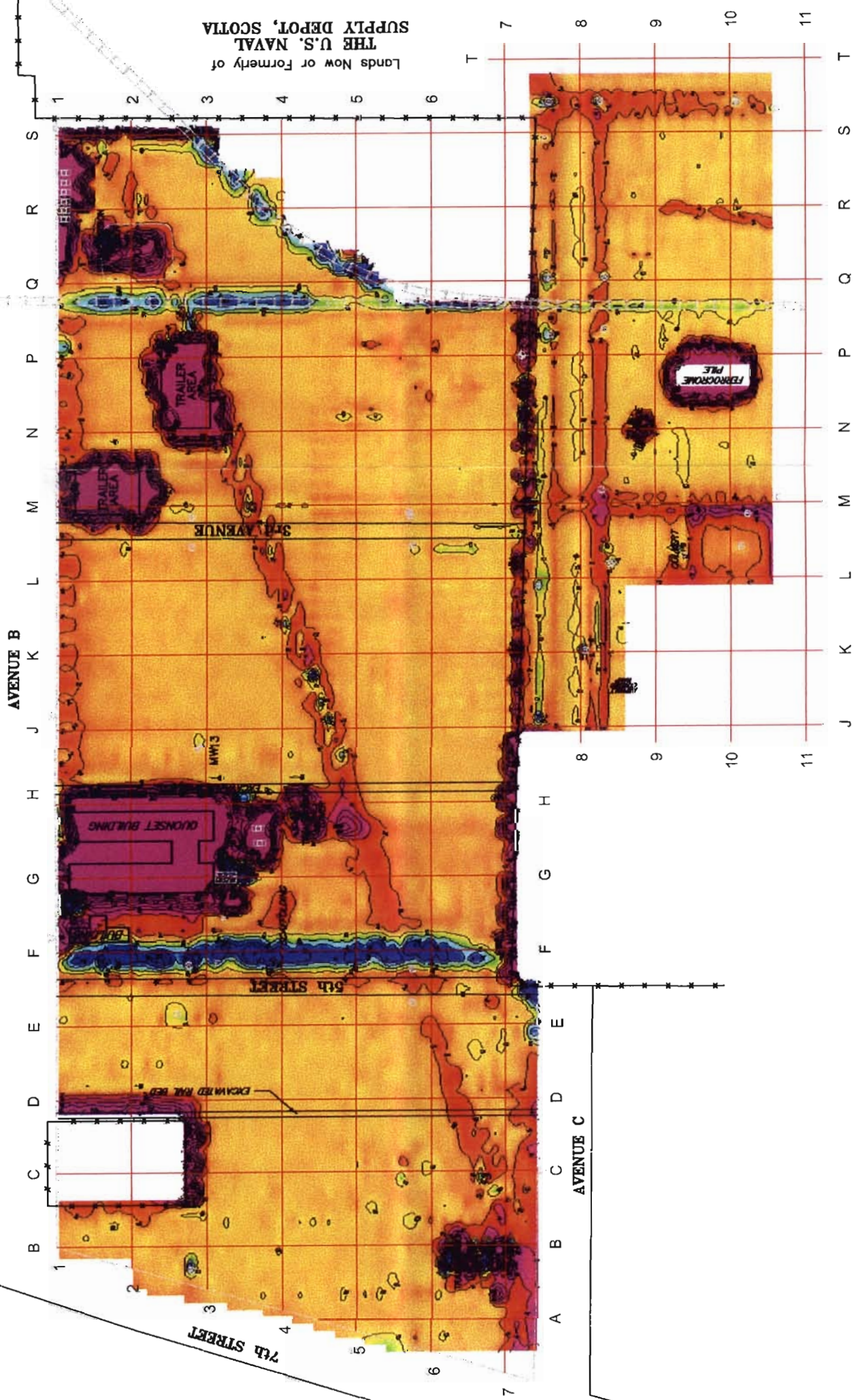


- LEGEND**
- MONITORING WELL
 - CATCH BASIN
 - HYDRANT
 - MANHOLE
 - UTILITY POLE
 - VAULT COVER
 - VEHICLE
 - DUMPSTER
 - RAILROAD
 - CONCRETE PAD
 - FENCE



Lands Now or Formerly of
THE U.S. NAVAL
SUPPLY DEPOT, SCOTIA

1st STREET



NOTES:

1. Modified from base plan provided by C.T. Mole Associates, P.C.
2. Data were recorded with EM31 in vertical dipole mode with boom perpendicular to traverse line where possible.

PLATE 3
IN-PHASE COMPONENT
SCOTIA/GLENVILLE INDUSTRIAL PARK
SCOTIA, NEW YORK

FILE 01J61 AUGUST, 2001

HAGER-RICHTER GEOSCIENCE, INC.
SALEM, NEW HAMPSHIRE

APPENDIX B

Field Forms – Test Pit Logs and Monitoring Well Construction Details

Test Pit Logs

TEST PIT LOG

EARTH TECH, INC.

12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

NORTHING: _____

EASTING: _____

DATE STARTED: 6/12/01 TIME: 1100 JOB NO.: 37089.99

DATE FINISHED: 6/12/01 TIME: 1420 TEST PIT NO.: TP0101

CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park

SURFACE ELEVATION: _____ EXCAVATOR: MCES

DATUM: _____ EQUIPMENT: JCB 214 Series 2 (Backhoe)

WATER ELEVATION: Not Encountered INSPECTOR: Mark A. Williams

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS	
			H.S.	Background
0				
	S-1 (2.5')	DkBr Cy\$ a, mf(+) S, s mf(+) G; med dense; moist (FILL). 2.0'	1.5 ppm	1.0ppm
5	*S-2 (5')	Br mf(+) S, t \$, t f G; loose to med dense; moist to dry (FILL). 5.7'	1.2 ppm	0.9 ppm
	S-3 (7.5')	Br mf(+) S, t \$; loose; moist to dry (SW).	1.4 ppm	0.8 ppm
10	S-4 (9.5')	Med BrGr mf(+) S; loose to med dense; dry (SW).	1.6 ppm	1.0 ppm
	S-5 (11.5')	GrBr cmf(+) S; med dense; dry (SW).	1.6 ppm	0.9 ppm
	S-6 (13.1')	Med BrGr mf(+) S; occ pbls & cbls; med dense;dry (SW) (GLACIOFLUVIAL) 13.5'	1.7 ppm	0.9 ppm
15		Total Depth of Pit = 13.5' BGS	Depth = 13.5'	
			Width = 8'	
			Length = 13.75'	
			Orientation = SW to NE	
20				
25				
30				

* Sample collected at 5.0' BGS was submitted for laboratory analysis (VOCs, SVOCs, TAL Metals and Pest./PCBs).

TEST PIT LOG

EARTH TECH, INC.

12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

NORTHING: _____

EASTING: _____

DATE STARTED: 6/12/01 TIME: _____ JOB NO.: 37089.99

DATE FINISHED: 6/12/01 TIME: 1515 TEST PIT NO.: TP0102

CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park

SURFACE ELEVATION: _____ EXCAVATOR: MCES

DATUM: _____ EQUIPMENT: JCB 214 Series 2 (Backhoe)

WATER ELEVATION: Not Encountered INSPECTOR: Mark A. Williams

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS	
			H.S.	Background
0				
	S-1 (2')	OrBr Cy\$, a (+) f S, a cm(+) f G; freq to occ cbis; med dense to dense; moist (ML/SM).	0.1 ppm	0.1 ppm
	S-2 (4')	OrBr/Med Br Cy\$ a(+), f S, a(-) cmf G; occ pbls & cbis; med dense; moist to dry (ML/SM).	0 ppm	0 ppm
5	S-3 (6')	OrBr Cy\$ a, mf(+) S, s(+) cmf G; occ to freq pbls & cbis; dense; moist (ML/SM).	0.2 ppm	0 ppm
10	S-4 (10')	OrBr mf S, s Cy\$, s(+) mf G; occ pbls & cbis; med dense to dense; moist to dry (SM).	0.1 ppm/0.2 ppm	0.1 ppm
	S-5 (13')	OrBr mf S, s Cy\$, s(-) cm(+) f G; occ pbls & cbis; med dense to dense; moist to dry (SM/ML).	0.2 ppm	0.1 ppm
	S-6 (14.5')	GrBr Cy\$ a(+), f S, s cmf G; med dense; moist (SM/ML).	0.1 ppm	0 ppm
15		Total Depth of Pit = 14.5' BGS		
20				
25				
30				

Depth = 14.5'
Width = 5.2'
Length = 13.25'
Orientation = East to West

Sample collected at 14' BGS was submitted for laboratory analysis (VOCs/SVOCs).

TEST PIT LOG

EARTH TECH, INC.

12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

NORTHING: _____

EASTING: _____

DATE STARTED: 6/12/01 TIME: _____ JOB NO.: 37089.99
DATE FINISHED: 6/12/01 TIME: _____ TEST PIT NO.: TP0103
CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park
SURFACE ELEVATION: _____ EXCAVATOR: MCES
DATUM: _____ EQUIPMENT: JCB 214 Series 2 (Backhoe)
WATER ELEVATION: Not Encountered INSPECTOR: Mark A. Williams

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS	
			H.S.	Background
0				
	S-1 (2')	OrBr C&S a, l(+) mf(+) S, s(+) cmf G; med dense; moist (ML/SM).	1.6 ppm	1.0 ppm
	S-2 (2.5')	GrBr mf(+) S, l \$&C, s(+) cmf G; occ pbls; rded; med dense; moist (SM/ML).	1.5 ppm	0.9 ppm
5				
	S-3 (7.5')	Med Br mf(+) S, s(-) cmf(+) G; occ cbls & pbls; dense; dry (SP).	1.4 ppm	1.0 ppm
10	S-4 (10')	Gr cmf(+) S; loose to med dense; dry to moist (SW).	1.4 ppm	1.0 ppm
	*S-5 (13')	Med Br mf(+) S, l(+) f G; occ pbls & cbls; med dense; dry (SP).	1.4 ppm	1.0 ppm
15		(GLACIOFLUVIAL) 16.0		
		Total Depth of Pit = 16' BGS	Depth = 16' Width = 6.5' Length = 14' Orientation = S to N	
20				
25				
30				

*Sample collected at 13' was submitted for laboratory analysis (VOCs, SVOCs, TAL Metals, and Pest/PCBs).

TEST PIT LOG

EARTH TECH, INC.

12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

NORTHING: _____

EASTING: _____

DATE STARTED: 6/12/01 TIME: _____ JOB NO.: 37089.99

DATE FINISHED: 6/12/01 TIME: _____ TEST PIT NO.: TP0104

CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park

SURFACE ELEVATION: _____ EXCAVATOR: MCES

DATUM: _____ EQUIPMENT: JCB 214 Series 2 (Backhoe)

WATER ELEVATION: Not Encountered INSPECTOR: Mark A. Williams

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS	
			H.S.	Background
0				
	S-1 (2')	Med Br Cy\$ a, f S, s cmf G; occ to freq cbls; dense; moist (ML/SM). 1.6	0.1 ppm	0.0 ppm
	S-2 (4')	Br-OrBr \$&C a, f S, s cmf G; occ cbls & pbls; med dense; moist (ML/SM). 3.3	0.0 ppm	0.0 ppm
5	S-3 (6')	Gr mf(+) S, t \$, a mf(+) G; med dense to loose; dry to moist (SM). 4.3	0.0 ppm	0.0 ppm
	S-4 (8-9')	BrBr cmf(+) S, l(-) mf(+) G; occ pbls; med dense; dry (SP). 6.6	0.0 ppm	0.0 ppm
10	S-5 (11.6')	Br Cy\$ a, mf S, a(-) cmf G; med dense to dense; moist to dry (ML/SM).	0.0 ppm	0.0 ppm
	*S-6 (13.5')	Med Br mf(+) S, l(-) \$, l(+) cmf(+) G; med dense to dense; moist to dry (SP). 16.2	0.0 ppm	0.0 ppm
15				
20				
25				
30				

Depth = 16.2'
Width = 6'
Length = 14'

* Sample collected at 13.5' BGS was submitted for laboratory analysis (VOCs and SVOCs).

TEST PIT LOG EARTH TECH, INC. 12 METRO PARK ROAD ALBANY, NEW YORK 12205 (518) 458-1313		NORTHING: _____ EASTING: _____	
DATE STARTED: <u>6/12/01</u>		TIME: _____	
DATE FINISHED: <u>6/12/01</u>		JOB NO.: <u>37089.99</u>	
CLIENT: <u>Glenville Energy Park, LLC</u>		TEST PIT NO.: <u>TP0105</u>	
SITE: <u>300 Block Scotia-Glenville Industrial Park</u>		EXCAVATOR: <u>MCES</u>	
SURFACE ELEVATION: _____		EQUIPMENT: <u>JCB 214 Series 2 (Backhoe)</u>	
DATUM: _____		INSPECTOR: <u>Mark A. Williams</u>	
WATER ELEVATION: <u>Not Encountered</u>			

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS	
			H.S.	Background
0				
	S-1 (2')	Orbr Cy\$ a(+), f S, a(-) cmf G; occ to freq cbls; med dense; moist (ML/SM).	0.1 ppm	0 ppm
	S-2 (4')	Med Br f S, a(-) Cy\$, s(-) mf G; med dense to dense; moist (SM/ML).	0.2 ppm	0 ppm
5	S-3 (6-8')	Med-DkGr mf(+) S, t \$, s(+) cmf G; med dense to dry (SP).	0.2 ppm	0.1 ppm
	S-4 (10')	Br cmf(+) S, l cmf G; occ pbls; rded; med dense to dense; dry (SP).	0.1 ppm	0.2 ppm
	S-5 (12')	Gr-GrBr cm(+) f S, s(+) c(+) mf G; dense; dry (SP).	0.2 ppm	0.1 ppm
	S-6 (12.4')	Med Br cmf(+) S, l c(+) mf G; occ pbls & cbls; dense; dry (SP).	0.1 ppm	0.1 ppm
		(GLACIOFLUVIAL) 14.5'		
15		Total Depth of Pit = 14.5' BGS		
20				
25				
30				

TEST PIT LOG

EARTH TECH, INC.

12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

NORTHING: _____

EASTING: _____

DATE STARTED: 6/12/01 TIME: _____ JOB NO.: 37089.99
DATE FINISHED: 6/12/01 TIME: _____ TEST PIT NO.: TP0106
CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park
SURFACE ELEVATION: _____ EXCAVATOR: MCES
DATUM: _____ EQUIPMENT: JCB 214 Series 2 (Backhoe)
WATER ELEVATION: Not Encountered INSPECTOR: Mark A. Williams

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS	
			H.S.	Background
0		Med OrBr Cy\$ a(+), f S, a cm(+) f G (ML/SM). 1.2'	0 ppm	0 ppm
	S-1 (2')	LtOrBr \$&C a(+), mf(+) S, a cm(+) f G (ML/SM). 3.4'	0 ppm	0 ppm
5				
	S-2 (6')	Med Br mf(+) S, l \$, s(-) cmf G; rded to subrded; med dense to dense; dry (SP). 6.5'	0 ppm	0 ppm
	S-3 (8')	Br-GrBr mf(+) S; loose to med dense; dry (SW). 0 ppm	0 ppm	0 ppm
10	S-4 (10')	GrBr cm(+) f S, s(-) cmf G; dense; dry (SP). 0 ppm	0 ppm	0 ppm
	S-5 (12')	Gr-GrBr cm(+) f S; med dense; dry (SW). 0 ppm	0 ppm	0 ppm
	S-6 (14')	Med GrBr cmf(+) S, s cm(+) f G; occ to freq cbis; dense; dry (SP). 16.1'	0 ppm	0 ppm
		Total Depth of Pit = 16.1' BGS		
20			Depth = 16.1'	Width = 4.3'
			Length = 13.5'	Orientation = E to W
25				
30				

TEST PIT LOG

EARTH TECH, INC.

12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

NORTHING: _____

EASTING: _____

DATE STARTED: 6/12/01 TIME: _____ JOB NO.: 37089.99

DATE FINISHED: 6/12/01 TIME: _____ TEST PIT NO.: TP0107

CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park

SURFACE ELEVATION: _____ EXCAVATOR: MCES

DATUM: _____ EQUIPMENT: JCB 214 Series 2 (Backhoe)

WATER ELEVATION: Not Encountered INSPECTOR: Mark A. Williams

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS	
			H.S.	Background
0				
	S-1 (2')	DkGrBr cmf(+) S, l cmf G; occ cbis & pbls; dense; moist to dry (SP).	0 ppm	0 ppm
	S-2 (4')	Med BrGr mf(+) S, t \$, a mf(+) G; dense; dry (SP).	0 ppm	0 ppm
5	S-3 (6')	DkGr-GrBr cmf(+) S, t \$, s(+) cmf G; loose; dry (SP).	0 ppm	0 ppm
	S-4 (8')	Med BrGr cm(+) f S, a c(+) mf G; occ to freq cbis & pbls; dense; dry (SP).	0 ppm	0 ppm
10		(GLACIOFLUVIAL) 10.1'		
		Total Depth of Pit = 10.1' BGS		
			Depth = 10.1'	
			Width = 6.25'	
15			Length = 15.5'	
			Orientation = E to W	
			Sample collected at	
			6-8' BGS was submitted	
			for laboratory analysis	
			(VOCs, SVOCs, TAL	
			Metals, and Pest/PCBs).	
20				
25				
30				

TEST PIT LOG

EARTH TECH, INC.

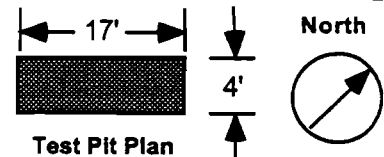
12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

DATE STARTED: 8/10/01 TIME: 10:05 am JOB NO.: 37089.99
DATE FINISHED: 8/10/01 TIME: 10:35 am TEST PIT NO.: TP-01-TH
CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park
SURFACE ELEVATION: _____ EXCAVATOR: MCES - Jason
DATUM: _____ EQUIPMENT: Backhoe
WATER ELEVATION: Not Encountered INSPECTOR: Todd R. Hollenbach

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS
0	S-1	Asphalt (FILL). _____ 0.3'	P.I.D. VOC Headspace
		Br mf(+) S, t \$, s cmf G; freq cbis; med dense; moist to dry (SW). _____ 1.3'	0'-2' (H.S.) = 0.0 ppm
	S-2	Dk Br cmf S, s Cy\$, cmf G; freq cbis (sbrdd to rdd); med dense; moist to dry (SM/ML). _____ 4.0'	2'-4' (H.S.) = 0.0 ppm
5		Rdsh Br mf(+) S, s \$, s cmf G; freq cbis; sbrdd to rdd; med dense; moist to dry (SM/ML). _____	4'-6' (H.S.) = 0.0 ppm
	S-4	Dark Reddish Brown medium to fine(+) SAND, some Silt; some coarse to fine Gravel, frequent cobbles; sub-rounded to rounded; medium dense; moist to dry (SM/ML). _____	6'-8' (H.S.) = 0.0 ppm
		Same (SM/ML). _____ (Glaciofluvial) 8.0'	
		Total Depth of Pit = 8.0' BGS	

Notes:



TEST PIT LOG

EARTH TECH, INC.

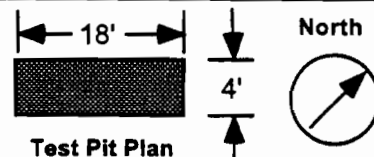
12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

DATE STARTED: 8/10/01 TIME: 10:38 am JOB NO.: 37089.99
DATE FINISHED: 8/10/01 TIME: 10:50 am TEST PIT NO.: TP-02-TH
CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park
SURFACE ELEVATION: _____ EXCAVATOR: MCES - Jason
DATUM: _____ EQUIPMENT: Backhoe
WATER ELEVATION: Not Encountered INSPECTOR: Todd R. Hollenbach

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS
0	S-1	<u>A Horizon w/ organics (grass, weeds).</u> <u>0.2'</u> Br mf(+) S, l Cy\$, s cmf G; freq pbls and cbls; dense to v dense; moist to dry (SM/ML/).	P.I.D. VOC Headspace 0'-2' (H.S.) = 0.0 ppm
	S-2	<u>2.5'</u> Or Br mf(+) S, s cmf G; freq cbls; dense to v dense; moist to dry (SP).	2'-4' (H.S.) = 0.0 ppm
5	S-3	<u>5.0'</u> Orsh Br mf(+) S, s \$, l cmf G; occ to freq cbls; med dense; moist (SP/SM).	4'-6' (H.S.) = 0.0 ppm
	S-4	<u>6.0'</u> Or Br mf(+) S, s cmf G; moist to dry. <u>Orangish-Brown medium to fine(+) SAND. some</u> <u>coarse to fine Gravel; dense; moist to dry (SP).</u>	6'-8' (H.S.) = 0.0 ppm
		(Glaciofluvial) <u>8.0'</u>	
		Total Depth of Pit = 8.0' BGS	

Notes:



TEST PIT LOG

EARTH TECH, INC.

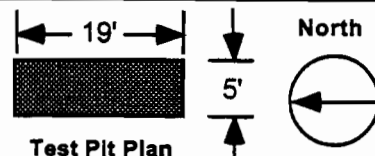
12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

DATE STARTED: 8/10/01 TIME: 10:52 am JOB NO.: 37089.99
 DATE FINISHED: 8/10/01 TIME: 11:04 am TEST PIT NO.: TP-03-TH
 CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park
 SURFACE ELEVATION: _____ EXCAVATOR: MCES - Jason
 DATUM: _____ EQUIPMENT: Backhoe
 WATER ELEVATION: Not Encountered INSPECTOR: Todd R. Hollenbach

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS
0	S-1	<u>A Horizon w/ organics (grass, weeds).</u> <u>0.3'</u> Br mf(+) S, l \$, s cmf G; freq cbls; dense to v dense; dry (SM/ML).	P.I.D. VOC Headspace 0'-2' (H.S.) = 0.0 ppm
	S-2	<u>3.0'</u> Gr Br cmf S, l cmf G; med dense; occ to freq cbls; moist to dry (SP).	2'-4' (H.S.) = 0.0 ppm
5	S-3	<u>5.0'</u> Orsh Br mf(+) S, s Cy\$, t cmf G; loose; occ cbls; moist (SM/ML).	4'-6' (H.S.) = 0.0 ppm
		<u>6.0'</u>	
	S-4	Or Br cmf S, l cmf G; med dense; occ to freq cbls; med dense; moist to dry (SP). <u>Orangish-Brown coarse to fine SAND, little coarse to fine Gravel; occasional cobbles; medium dense; moist to dry (SP).</u> (Glaciofluvial)	6'-8' (H.S.) = 0.0 ppm
		<u>8.0'</u>	
Total Depth of Pit = 8.0' BGS			

Notes:



TEST PIT LOG

EARTH TECH, INC.

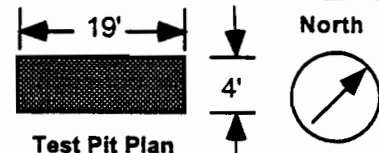
12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

DATE STARTED: 8/10/01 TIME: 11:04 am JOB NO.: 37089.99
DATE FINISHED: 8/10/01 TIME: 11:28 am TEST PIT NO.: TP-04-TH
CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park
SURFACE ELEVATION: _____ EXCAVATOR: MCES - Jason
DATUM: _____ EQUIPMENT: Backhoe
WATER ELEVATION: Not Encountered INSPECTOR: Todd R. Hollenbach

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS
0	S-1	A Horizon w/ organics (grass, weeds). 0.3'	P.I.D. VOC Headspace
		Br mf(+) S, l \$, s cmf G; occ to freq cbls; dense to v dense; moist to dry (SM/ML).	0'-2' (H.S.) = 0.0 ppm
	S-2		
		3.5'	2'-4' (H.S.) = 0.0 ppm
	S-3	Dk Gy Br cmf S, l cmf G; med dense; occ to freq cbls; moist (SP).	
5		5.5'	4'-6' (H.S.) = 0.0 ppm
	S-4	Orsh Br mf(+) S, s Cy\$, t cmf G; loose; occ to freq cbls; moist (SM/ML).	
		7.0'	6'-8.5' (H.S.) = 0.0 ppm
		(Glaciofluvial) 8.5'	
		Dark-Greyish Brown coarse to fine SAND, little coarse to fine Gravel; occasional to frequent cobbles; medium dense; moist (SP).	

Notes:



TEST PIT LOG

EARTH TECH, INC.

12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

DATE STARTED: 8/10/01 TIME: 1306 JOB NO.: 37089.99

DATE FINISHED: 8/10/01 TIME: 1328 TEST PIT NO.: TP-05-TH

CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park

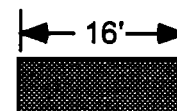
SURFACE ELEVATION: EXCAVATOR: MCES - Jason

DATUM: EQUIPMENT: Backhoe

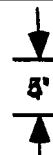
WATER ELEVATION: Not Encountered INSPECTOR: Todd R. Hollenbach

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS
0	S-1	A Horizon w/ organics (grass, weeds). 0.2'	P.I.D. VOC Headspace
		Br mf(+) S, s \$, l cmf G; occ cbls; v dense; moist to dry (SM/ML).	0'-2' (H.S.) = 0.0 ppm
	S-2		
			2'-4' (H.S.) = 0.0 ppm
	S-3	4.1'	
5		Dk Gr mf(+) S, s \$, l cmf G; occ cbls; v dense; moist; strong diesel odor w/ staining (no aqueous phase) 4.6'	4.1-4.6' (H.S.) = 281/292/301 ppm (never stabilized)
	S-4	Orsh Br mf(+) S, s Cy\$, l cmf G; occ cbls; dense; moist to dry (SM/ML).	
		6.8'	
		Dk Br cmf S, s cmf G; occ to freq cbls; loose; moist (SP).	6'-9.1' (H.S.) = 0.0 ppm
		Dark Brown coarse to fine SAND, some coarse to fine Gravel; occasional to frequent cobbles; loose; moist (SP).	
		(Glaciofluvial) 9.1'	
		Total Depth of Pit = 9.1' BGS	

Notes:



Test Pit Plan



TEST PIT LOG

EARTH TECH, INC.

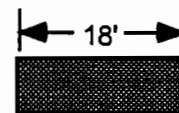
12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

DATE STARTED: 8/10/01 TIME: 1323 JOB NO.: 37089.99
DATE FINISHED: 8/10/01 TIME: 1345 TEST PIT NO.: TP-06-TH
CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park
SURFACE ELEVATION: _____ EXCAVATOR: MCES - Jason
DATUM: _____ EQUIPMENT: Backhoe
WATER ELEVATION: Not Encountered INSPECTOR: Todd R. Hollenbach

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS
0	S-1	<u>Crushed grey stone and organics (Fill)</u> <u>0.2'</u>	P.I.D. VOC Headspace
		Dk Gr Br mf(+) S, s \$, l cmf G; occ to freq cbls; dense; moist (SM/ML).	0'-2' (H.S.) = 0.0 ppm
	S-2		
		<u>3.3'</u>	2'-4' (H.S.) = 0.5 ppm
	S-3	Br mf S, s \$, l cmf G; occ to freq cbls; dense; moist to dry (SM/ML).	
5			4'-6' (H.S.) = 1.3 ppm
	S-4	<u>6.2'</u>	
		Dk Br cmf S, t \$, s cmf G; freq cbls; loose; moist (SP).	
		<u>Dark Brown coarse to fine SAND, trace Silt, some coarse to fine Gravel; frequent cobbles; loose; moist (SP).</u>	6'-8.6' (H.S.) = 2.6 ppm
		(Glaciofluvial) <u>8.6'</u>	

Notes:



Test Pit Plan

North



TEST PIT LOG

EARTH TECH, INC.

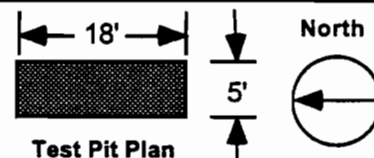
12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

DATE STARTED: 8/10/01 TIME: 1200 JOB NO.: 37089.99
DATE FINISHED: 8/10/01 TIME: 1215 TEST PIT NO.: TP-07-TH
CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park
SURFACE ELEVATION: _____ EXCAVATOR: MCES - Jason
DATUM: _____ EQUIPMENT: Backhoe
WATER ELEVATION: Not Encountered INSPECTOR: Todd R. Hollenbach

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS
0	S-1	A Horizon w/ organics (grass, weeds). <u>0.3'</u>	P.I.D. VOC Headspace
		Br mf(+) S, t \$, s cmf G; occ to freq cbls; dense to v dense, moist to dry (SP).	0'-2' (H.S.) = 0.0 ppm
	S-2	<u>3.4'</u>	
		Dk Br mf(+) S, s cmf G; freq cbls; med dense; moist to dry (SP).	2'-4' (H.S.) = 0.0 ppm
5	S-3	Dk Br mf(+) S, t \$, s cmf G; occ to freq cbls; dense; moist to dry (SP).	
		<u>Dark brown medium to fine(+) SAND, trace Silt, some coarse to fine Gravel; occasional to frequent cobbles; dense; moist to dry.</u>	4'-6' (H.S.) = 0.0 ppm
	S-4	Same (SP).	
			6'-8.5' (H.S.) = 0.0 ppm
		(Glaciofluvial) <u>8.5'</u>	
		Total Depth of Pit = 8.5' BGS	

Notes:



TEST PIT LOG

EARTH TECH, INC.

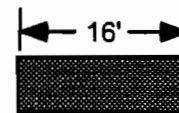
12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

DATE STARTED: 8/10/01 TIME: 1215 JOB NO.: 37089.99
DATE FINISHED: 8/10/01 TIME: _____ TEST PIT NO.: TP-08-TH
CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park
SURFACE ELEVATION: _____ EXCAVATOR: MCES - Jason
DATUM: _____ EQUIPMENT: Backhoe
WATER ELEVATION: Not Encountered INSPECTOR: Todd R. Hollenbach

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS
0	S-1	A Horizon w/ organics (grass, weeds). <u>0.2</u> Br mf(+) S, l \$, s cmf G; occ cbls; dense; dry (SP). <u>0.9</u>	P.I.D. VOC Headspace
		Dk Br cmf S, t \$, s cmf G; occ to freq cbls; loose; dry to moist (SP).	0'-2' (H.S.) = 0.0 ppm
	S-2	Same (SP).	2'-4' (H.S.) = 0.0 ppm
5	S-3	Dk Br mf(+) S, s cmf G; occ to freq cbls; med dense; dry to moist (SP). Dark Brown medium to fine(+) SAND, some coarse to fine Gravel; occasional to frequent cobbles; medium dense; dry to moist (SP).	4'-6' (H.S.) = 0.0 ppm
	S-4	Same (SP).	6'-8.9' (H.S.) = 0.0 ppm
		(Glaciofluvial) <u>8.9</u>	
		Total Depth of Pit = 8.9' BGS	

Notes:



Test Pit Plan

North



TEST PIT LOG

EARTH TECH, INC.

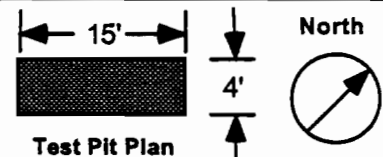
12 METRO PARK ROAD

ALBANY, NEW YORK 12205 (518) 458-1313

DATE STARTED: 8/10/01 TIME: 1228 JOB NO.: 37089.99
DATE FINISHED: 8/10/01 TIME: 1240 TEST PIT NO.: TP-09-TH
CLIENT: Glenville Energy Park, LLC SITE: 300 Block Scotia-Glenville Industrial Park
SURFACE ELEVATION: EXCAVATOR: MCES - Jason
DATUM: EQUIPMENT: Backhoe
WATER ELEVATION: Not Encountered INSPECTOR: Todd R. Hollenbach

DEPTH	SAMPLE NUMBER	DESCRIPTION OF SOIL	REMARKS
0	S-1	A Horizon w/ organics (grass, weeds), 0.2'	P.I.D. VOC Headspace
		Dk Gr f S; powder fill material. 0.7'	
	S-2	Br mf(+) S, l \$, s cmf G; occ cbls; dense to v dense; dry to moist (SP).	0'-2' (H.S.) = 0.0 ppm
	S-3	Dk Br mf(+) S, s cmf G; freq cbls; med dense; dry to moist (SP).	2'-4' (H.S.) = 0.0 ppm
5	S-4	Dk Br mf(+) S, l \$, s cmf G; occ to freq cbls; dense; moist to dry (SP).	4'-6' (H.S.) = 0.0 ppm
	S-4	Dark Brown coarse to fine(+) SAND, some coarse to fine Gravel; frequent cobbles; dense; moist to dry (SP).	6'-8.7' (H.S.) = 0.0 ppm
		(Glaciofluvial) 8.7'	
		Total Depth of Pit = 8.7' BGS	

Notes:



Test Boring Logs

Earth Tech, Inc.

Albany, NY (518) 458-1313

Test Boring Log

Boring No.
MW-99-14

PROJECT: 300 Block - Site Investigation

Sheet 1 of 4

CLIENT: Glenville Energy Park Holdings, LLC

Job No. 37089.01

DRILLING CONTRACTOR: Parratt-Wolff, Inc.

Meas. Pt. Elev.: 296.20

PURPOSE: Environmental Monitoring Well Installation

Ground Elev.: 294.3

DRILLING METHOD: Hollow Stem Auger

SAMPLE

CORE

CASING

Datum:

DRILL RIG TYPE: CME-75

TYPE

SS

-

HSA

Date Started: 10/27/99

GROUNDWATER DEPTH: 68.81'

DIAM.

2" O.D.

-

4 1/4" I.D.

Date Finished: 10/28/99

MEAS. PT.: PVC

WEIGHT

140#

H.S. = Headspace

Driller: Layne Pech

DATE OF MEAS.: 11/1/99

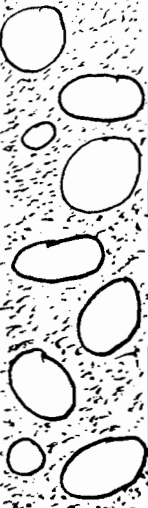
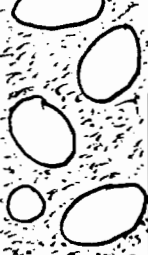
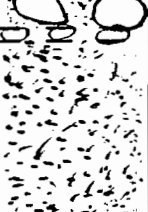
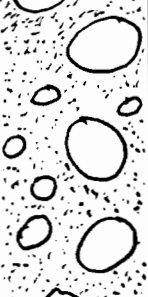
FALL

30"

Inspector: Mark Williams

Depth (Feet)	Sample Number	Blow Count	Unified Classif- ication	Graphic Log	GEOLOGIC DESCRIPTION	REMARKS
0	S-1	3	SP		Br-LtBr mf(+) S, s(-) \$, s(+) mf G; freq cbls & pbls; sbrded to rded; moist to dry (SP).	Rec = 1.4' Moist to Dry H.S. = 0.7/1.1/0.0/ 0.0/0.7/0.8 ppm
		7				
		10				
		7				
5	S-2	1	SP		MedBr-GrBr mf(+) S, l \$, t f G; occ pbl; loose; dry (SP).	Rec = 1.35' Dry H.S. = 0 ppm
		2				
		2				
		2				
10	S-3	4	SW		Br f-vf S, occ cbls; loose to med dense; dry (SW).	Rec = 1.25' Dry Spike of 0.2/0.2/0.1; quickly flattens to 0.0 ppm
		4				
		4				
		5				
15	S-4	3	SW		Br f S; well sorted; loose to med dense; dry (SW). <u>Brown fine SAND; well sorted; loose to medium dense; dry (SW).</u>	Rec = 1.55' Dry H.S. = 0.0 ppm
		4				
		5				
		6				
20					(GLACIAL OUTWASH)	

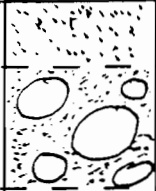
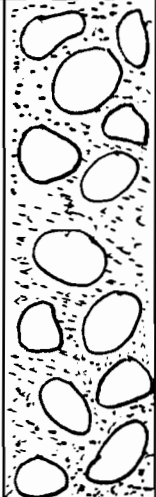
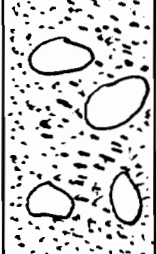
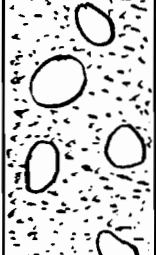
Earth Tech, Inc. Albany, NY (518) 458-1313				Test Boring Log		Boring No. MW-99-14	
PROJECT: 300 Block - Site Investigation						Sheet 2 of 4	
CLIENT: Glenville Energy Park Holdings, LLC						Job No. 37089.01	
Depth (Feet)	Sample Number	Blow Counts	Unified Classif- ication	Graphic Log	Geologic Description	Remarks	
20	S-5	4	SW		MedBr f S; well sorted; med dense; dry (SW).	Rec = 1.6' Dry H.S. = 3.8/3.9/4.0/ 3.9 ppm	
		4					
		6					
		8					
						23.0'	
25	S-6	5	SP		LtBrGr cmf(+) S, t(-) \$, s mf G; cbls; dense; dry (SP).	Rec = 1.75' Dry H.S. = 6.0/5.4/5.5/ 5.4/5.5 ppm	
		26					
		41					
		36					
						25.9'	
						Br/LtBr cmf(+) S, t \$, l mf G; occ cbls; v dense; dry (SP).	
30	S-7	7	SP		Br cmf(+) S, t(-) \$, l mf G; occ to freq s cbls; pbly @ 30.35'-30.55' (SP).	Rec = 1.85' Dry 30'-31.3': H.S. = 7.7/ 7.8/8.2/7.7 ppm	
		11					
		43					
		57					
						31.3'	
						LtBr mf(+) S, s(+) m(+)f G; rded; sbrded; sl mtd; v dense; dry (SP).	
35	S-8	1000.5	SP		LtGr Cbl lodged in split-spoon.	Rec = 0 H.S. = NA	
40	S-9	20	SP		LtGrBr mf(+) S, a(+) mf G; freq cbls; dense; dry (SP). <u>Light Gray-Brown medium to fine(+) SAND, and(+) medium to fine Gravel; frequent cobbles; dense; dry (SP).</u>	Rec = 1.75' Dry H.S. = 1.9/2.2/2.2/ 2.0 ppm	
		22					
		20					
		21					
45	S-10	18	SP		Br-Gr cmf(+) S, t(-) \$, s(+) m(+)f G; freq cbls; occ bldry area; hard; dry (SP).	Rec = 1.3' Dry H.S. = 4.4/4.3/4.3 ppm	
		33					
		63					
50					(GLACIAL OUTWASH)		

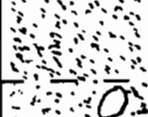
Earth Tech, Inc. Albany, NY (518) 458-1313				Test Boring Log		Boring No. MW-99-14
PROJECT: 300 Block - Site Investigation					Sheet 3 of 4	
CLIENT: Glenville Energy Park Holdings, LLC					Job No. 37089.01	
Depth (Feet)	Sample Number	Blow Counts	Unified Classif- ication	Graphic Log	Geologic Description	Remarks
50	S-11	13	SP		Med-DkBr mf(+) S, l mf G; occ cbls; dense; dry (SP).	Rec = 1.7' Dry H.S. = 22.5/24.9/ 24.8/26.2 ppm
		19				
		16				
		12				
55	S-12	20	SP		Br cmf(+) S, t \$, s mf G; freq rk frag (rded pbls/cbls); med dense; dry (SP). <u>Brown coarse to fine(+) SAND,</u> <u>trace Silt, some medium to fine</u> <u>Gravel; frequent rock fragments</u> <u>(rounded pebbles and cobbles);</u> <u>medium dense; dry (SP).</u>	Rec = 1.4' Dry H.S. = 34.6/14.6/ 14.5 ppm
		11				
		15				
		17				
60	S-13	21	SP		Same (SP). <u>60.6'</u> Cbl, mf(+) S, l mf G. <u>60.82'</u> Br mf(+) S, t(+) \$, t(+) f G; occ cbl; med dense (SW).	Rec = 1.7' Dry 60.6'=60.82': H.S. = 11.1/14.9/14.4 then 0 ppm after ~30 sec. 60.82'-62': H.S. = 6.4/3.0/6.1 then 0 ppm after 20 sec.
		12				
		10				
		10				
65	S-14	7	SM		Med-DkBr mf(+) S, s(-) \$, occ cbl; moist (SM). <u>64.25'</u>	Rec = 1.65' Moist H.S. = 66.7/66.1/ 66.5 ppm
		7				
		8				
		10				
70	S-15	34	SP		Br-Dk mf(+) S, l(+) \$; t f G; occ to freq cbl; dense; wet (SP). <u>71.0'</u> DkBr cmf(+) S, t(+) \$, s(-) mf G; occ cbls; dense; wet (SP).	Rec = 1.95' Wet 70'-71': H.S. = 17.1/ 15.1/15.3 ppm 70'-72': H.S. = 5.8/ 6.0/5.7/5.8/ 6.0 ppm
		16				
		17				
		20				
75	S-16	15	SP		DkBr cmf(+) S, t(-) \$, s(-) mf G; dense; wet (SP). <u>Dark Brown coarse to fine(+) SAND,</u> <u>trace(-) Silt, some(-) medium</u> <u>to fine Gravel; dense; wet (SP).</u>	Rec = 1.9' Wet H.S. = 4.1/3.6/3.6 ppm
		18				
		18				
		16				
80					(GLACIAL OUTWASH)	

Earth Tech, Inc. Albany, NY (518) 458-1313				Test Boring Log		Boring No. MW-99-14	
PROJECT: 300 Block - Site Investigation						Sheet 4 of 4	
CLIENT: Glenville Energy Park Holdings, LLC						Job No. 37089.01	
Depth (Feet)	Sample Number	Blow Counts	Unified Classif- ication	Graphic Log	Geologic Description	Remarks	
80	S-17	8	SP		DkBr cmf S, t(+) S, a mf G; occ cbl; med dense; wet (SP). (GLACIAL OUTWASH) 82.0' [12.30]	Rec = 1.55' Wet H.S. = 4.9/3.1/3.9 ppm	
		9					
		15					
82		15					
					End of boring at 82.0'		

Earth Tech, Inc. Albany, NY (518) 458-1313				Test Boring Log			Boring No. MW-99-15	
PROJECT: 300 Block - Site Investigation							Sheet 1 of 4	
CLIENT: Glenville Energy Park Holdings, LLC							Job No. 37089.01	
DRILLING CONTRACTOR: Parratt-Wolff, Inc.							Meas. Pt. Elev.: 293.67	
PURPOSE: Environmental Monitoring Well Installation							Ground Elev.: 291.4	
DRILLING METHOD: Hollow Stem Auger		SAMPLE	CORE	CASING	Datum:			
DRILL RIG TYPE: CME-75		TYPE	SS	-	HSA	Date Started: 10/26/99		
GROUNDWATER DEPTH: 66.55'		DIAM.	2" O.D.	-	4 1/4" I.D.	Date Finished: 10/27/99		
MEAS. PT.: PVC		WEIGHT	140#	H.S. = Headspace		Driller: Layne Pech		
DATE OF MEAS.: 11/1/99		FALL	30"			Inspector: Mark Williams		

Depth (Feet)	Sample Number	Blow Count	Unified Classification	Graphic Log	GEOLOGIC DESCRIPTION	REMARKS
0						
5	S-1	3	SP		Br mf(+) S, l(-) \$, l(+) f G; occ rk pieces (cbl frag); med dense; dry (SP).	Rec = 0.8' Dry H.S. = 0 ppm
		3				
		7				
		7				
10	S-2	16	SP		LtBr/Br mf(+) S, l \$, s mf G; freq; rk frag; v dense; dry (SP).	Rec = 1.55' Dry
		32			<u>Light-Brown to Brown medium to fine(+) SAND, little Silt, some medium to fine Gravel; frequent rock fragments; very dense; dry (SP).</u>	Spike = 6.3 ppm
		33				Steady State
		27				3.4/3.5/5.5/5.6 ppm
15	S-3	8	SM		Br-DkBr mf(+) S, s \$, s(-) mf G; occ freq rk frag; med dense; dry (SM).	Rec = 1.1' Dry
		9				H.S. = 0 ppm
		13				
		11				
20					(GLACIAL OUTWASH)	

Earth Tech, Inc. Albany, NY (518) 458-1313				Test Boring Log		Boring No. MW-99-15	
PROJECT: 300 Block - Site Investigation						Sheet 2 of 4	
CLIENT: Glenville Energy Park Holdings, LLC						Job No. 37089.01	
Depth (Feet)	Sample Number	Blow Counts	Unified Classif- ication	Graphic Log	Geologic Description	Remarks	
20	S-4	a 7	SM		Br mf(+) S, t \$; t f G; dense; dry (SM). — — — — — 21.2'	Rec = 1.7' Dry H.S. @ 20'-21.2' = 3.1/3.3/8.6 ppm H.S. @ 21.2'-22' = 0 ppm	
		b 26					
		27	SP		Br-GrBr f S, l \$, a(-) mf G; freq rk pieces; v dense; dry (SP). — — — — — 23.5'		
		37					
25	S-5	14	GP		GrBr mf G, t \$, s cmf(+) S; occ mtd; freq cbis & pbls; rded; med dense to dense; dry (GP). <u>Gray-Brown medium to fine GRAVEL, trace Silt, some coarse to fine(+) Sand; occasionally mottled; frequent cobbles and pebbles; rounded; medium to dense; dry (GP).</u>	Rec = 1.6' Dry H.S. = 0 ppm w/ spike of 5.4/7.8/ 9.2 ppm	
		16					
		13					
		17					
30	S-6	24	GP		GrBr mf G, t \$, s(-) cmf(+) S; freq rded to sbrded cbis; pbls & occ bldrs; hard; dry (GP). — — — — — 33.0'	Rec = 1.45' Dry pockets of moisture Spike 6.4 ppm S.S. = 4.7-5.0 ppm	
		61					
		45					
		39					
35	S-7	13	SP		Br cmf(+) S, t(+) \$, s(-) mf G; freq small rded cbis; med dense to dense; dry (SP).	Rec = 1.75' Dry H.S. = 0 ppm	
		10					
		19					
		15					
40	S-8	30	SP		Br cmf(+) S, t \$, a(-) mf G; freq cbis; occ bldrs; v dense; dry (SP). <u>Brown coarse to fine(+) SAND, trace Silt, and(-) medium to fine Gravel; frequent cobbles; occasional boulders; very dense; dry (SP).</u>	Rec = 1.7' Dry H.S. = 0 with spikes of 3.0/4.7/4.4/ 2.4 ppm	
		51					
		31					
		33					
45	S-9	22	SP		Br mf(+) S, l(-) \$, s mf G; occ to freq rk frag (cbis); dense; dry (SP).	Rec = 1.55' Dry H.S. = 4.1/1.4/0.7 ppm then 0 in 6 sec.	
		20					
		26					
		20					
50					(GLACIAL OUTWASH)		

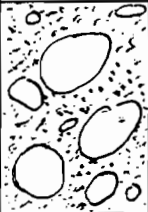
Earth Tech, Inc. Albany, NY (518) 458-1313				Test Boring Log		Boring No. MW-99-15				
PROJECT: 300 Block - Site Investigation						Sheet 3 of 4				
CLIENT: Glenville Energy Park Holdings, LLC						Job No. 37089.01				
Depth (Feet)	Sample Number	Blow Counts	Unified Classif- ication	Graphic Log	Geologic Description	Remarks				
50	S-10	25	SP		LtBr/Br mf(+) S, t(+) \$, a(+) mf G; freq rk frags; v dense; dry (SP).	Rec = 1.8' Dry H.S. = 0 with spike of 1.4/1.8/1.6/4.3 ppm				
		27								
		37								
		32								
55	S-11	17	SP		LtBr-Br cmf(+) S, t(-) \$, l(+) mf(+) G; occ rk frag; dense; dry (SP). <u>Light Brown to Brown coarse to fine(+) SAND, trace(-) Silt, little(+) medium to fine(+) Gravel; occasional rock fragment; dense; dry (SP).</u>	Rec = 1.65' Dry H.S. = 0 with spikes of 202.0 & 179.0 ppm				
		27								
		21								
		19								
60	S-12	11	SP		MedBr cmf(+) S, l(-) \$, l(-) mf G; sbrded to rded; occ(-) small cbles; med dense to dense; dry to moist (SP).	Rec = 1.85' Dry to Moist H.S. = 17.4/17.8/17.5/ 19.6 ppm				
		16								
		17								
		19								
65	S-13	13	SW		MedBr/GrBr cmf(+) S; clean; occ small cbl; med dense; moist (SW). 64.75'	Rec = 1.9' Wet 65'-66.45'=>2000 Slow yet consistent rise Redo = 0 with spike of 117/195 ppm 66.45'-67'=>2000 Redo = 0 with spike of 252/110 ppm				
		14	SP							
		14								
		33								
70	S-14	18	SP		MedBr cmf S, t(+) \$, a(-) mf G; sbrded to rded; occ to freq cbles; dense; wet (SP).	Rec = 1.75' Wet H.S. = 5.2/5.5/5.8/ 6.0/5.1 ppm				
		18								
		26								
		29								
75	S-15	16	SP		MedBrGr cmf(+) S, l(-) \$, s(+) mf G; sbrded to rded; occ cbles; dense; wet (SP).	Rec = 1.6' Wet H.S. = 6.0/5.3/6.4/ 6.1 ppm				
		27								
		19								
		18								
80					(GLACIAL OUTWASH)					

Earth Tech, Inc. Albany, NY (518) 458-1313				Test Boring Log		Boring No. MW-99-15	
PROJECT: 300 Block - Site Investigation						Sheet 4 of 4	
CLIENT: Glenville Energy Park Holdings, LLC						Job No. 37089.01	
Depth (Feet)	Sample Number	Blow Counts	Unified Classif- ication	Graphic Log	Geologic Description	Remarks	
80	S-16	9	SP		MedBrGr cmf(+) S, l \$, s mf G; sbrded to rded; med dense; wet (SP). (GLACIAL OUTWASH) 82.0'	Rec = 1.8' Wet H.S. = 4.7/7.5/6.3/ 6.5 ppm	
		13					
		15					
82		19					
End of boring at 82.0'							

Earth Tech, Inc. Albany, NY (518) 458-1313		Test Boring Log			Boring No. MW-99-16	
PROJECT: 300 Block - Site Investigation					Sheet 1 of 3	
CLIENT: Glenville Energy Park Holdings, LLC					Job No. 37089.01	
DRILLING CONTRACTOR: Parratt-Wolff, Inc.					Meas. Pt. Elev.: 288.33	
PURPOSE: Environmental Monitoring Well Installation					Ground Elev.: 286.3	
DRILLING METHOD: Hollow Stem Auger		SAMPLE	CORE	CASING	Datum:	
DRILL RIG TYPE: CME-75	TYPE	SS	-	HSA	Date Started: 10/28/99	
GROUNDWATER DEPTH: 62.52'	DIAM.	2" O.D.	-	4 1/4" I.D.	Date Finished: 10/29/99	
MEAS. PT.: PVC	WEIGHT	140#	H.S. = Headspace		Driller: Layne Pech	
DATE OF MEAS.: 11/1/99	FALL	30"			Inspector: Mark Williams	

Depth (Feet)	Sample Number	Blow Count	Unified Classif- ication	Graphic Log	GEOLOGIC DESCRIPTION	REMARKS
0	S-1	2	FILL		Railroad Ballast. Br to occ Bl cmf(+) S, s(-) \$, s(+) mf G; freq rk frag (cbis) small bldr; last 0.6' is BlGr I S; hd; bony (FILL).	Rec = 1.25' Wet to Moist H.S. = 1.1/0.5/0.6/ 0.5 ppm Bony drilling
7						
20						
22						
5	S-2	13	FILL		Same (FILL). Br-DkBr \$ a(+), f S, s(+) mf G; occ to freq small bldrs/cbls; med dense; bldry (ML).	Rec = 1.15' Moist to Dry H.S. = 0 ppm
14						
5		ML				
9						
10	S-3	5	GM		Br mf G, l(+) \$, s(+) cmf(+) S; occ cbls/bldrs; med dense; moist; no odr; rk frag (GM).	Rec = 0.85' Moist H.S. = 0 ppm
6						
3						
5						
15	S-4	4	SP		Br-DkBr cmf(+) S, t(+) \$, a(-) mf(+) G; freq rk frags of diff character; freq pbls & small cbls; med; loose-med dense; dry (SP). <u>Brown-Dark Brown coarse to fine(+)</u> <u>SAND, trace(+) Silt, and(-) medium to</u> <u>fine(+) Gravel; frequent rock</u> <u>fragments of different origin; frequent</u> <u>pebbles and small cobbles; loose to</u> <u>medium dense; dry (SP).</u> (GLACIAL OUTWASH)	Rec = 1.35' Dry H.S. = 0.0 ppm A little more cbls than pebbles >18.5'
4						
4						
6						
20						

Earth Tech, Inc. Albany, NY (518) 458-1313				Test Boring Log		Boring No. MW-99-16	
PROJECT: 300 Block - Site Investigation						Sheet 2 of 3	
CLIENT: Glenville Energy Park Holdings, LLC						Job No. 37089.01	
Depth (Feet)	Sample Number	Blow Counts	Unified Classif- ication	Graphic Log	Geologic Description	Remarks	
20	S-5	5	GP		Cbl @ end of spoon.	Rec = NR H.S. = NA	
		5					
		9					
		9					
25	S-6	18	GP		Br mf G, s(-) mf(+) S; freq cbls/ bldrs/pyrite; med dense; dry (GP). ----- 26.55'	Rec = 1.7' Dry 25'-26.55': H.S. = 0 ppm 26.55'+: H.S. = 0 ppm Sandy	
		16					
		10					
		12					
30	S-7	10	SP		Br cmf S, s(+) mf G; freq to occ cbls/small bldrs; dense; occ mtd; dry (SP). <u>Brown coarse to fine SAND,</u> <u>some(+) medium to fine Gravel;</u> <u>frequent to occasional cobbles/</u> <u>small boulders; dense; occasionally</u> <u>mottled; dry (SP).</u>	Rec = 1.85' Dry H.S. = 3.2/2.9/2.5/1.8/ 2.3/2.2/2.7/1.4 then occ. 0 ppm	
		15					
		18					
		21					
35	S-8	10	SP		Br-MedBr mf(+) S, l \$, s mf G; occ-freq rk frags; LtGrBr @ 36.15'; med dense; dry (SP).	Rec = 1.75' Dry H.S. = 2.9/2.6/3.5/5.8/ 6.5 then 0 ppm	
		15					
		20					
		48					
40	S-9	11	SP		GrBr cmf(+) S, s(+) m(+)f G; freq rk frag; last 0.7' is Br cmf(+) S, l(-) f G; med dense to dense; dry (SP).	Rec = 1.55' Dry H.S. ¹ = 30.1/19.7/11.3 then quickly to 0 ppm H.S. ² = 1.0/1.1/0.9 ppm	
		14					
		15					
		16					
45	S-10	15	SP		Br-GrBr cmf(+) S, t \$, a(-) mf G; freq rk frag; less cbls; dense; mtd; dry (SP).	Rec = 1.6' Dry H.S. = 11.1/12/11.4/ 12.6/11.0 ppm	
		19					
		17					
		15					
50					(GLACIAL OUTWASH)		

Earth Tech, Inc. Albany, NY (518) 458-1313				Test Boring Log		Boring No. MW-99-16	
PROJECT: 300 Block - Site Investigation						Sheet 3 of 3	
CLIENT: Glenville Energy Park Holdings, LLC						Job No. 37089.01	
Depth (Feet)	Sample Number	Blow Counts	Unified Classif- ication	Graphic Log	Geologic Description	Remarks	
50	S-11	8	SP		Lt-MedGrBr mf(+) S, t \$, s mf G; occ to freq rk frag; med dense; dry (SP).	Rec = 1.5' Dry H.S. = 1.5/0.9/ then 0 ppm quickly	
		11					
		12					
		15					
					54.0'		
55	S-12	7	SW		LtBr f S; clean; med dense; dry (SW).	Rec = 1.63' Dry H.S. = 5.5/5.6/1.2/ 5.5/3.8 ppm	
		9					
		18					
		18					
60	S-13	5	SW		Br f S; med dense; moist to wet (SW).	Rec = 1.9' Moist to Wet H.S. = 1.4/3.1/3.2/ 2.9/0.9 then 0 ppm quickly	
		5					
		8					
		13					
65	S-14	7	SW		MedBr-DkBr f S, l(-) \$; med dense; wet (SW). <u>Medium Brown-Dark Brown fine SAND, little(-) Silt, medium dense; wet (SW).</u>	Rec = 1.95' Wet H.S. = 2.5/2.0/1.7/2.3 then 0 ppm	
		13					
		16					
		17					
70	S-15	4	SW		OlBr f S, l \$, med dense; wet (SW). (GLACIAL OUTWASH) 72.0' [214.3]	Rec = 1.8' Wet H.S. = 7.7/8.4/7.4/ 7.1/7.8/8.4 ppm	
		9					
		16					
		21					
					End of boring at 72.0'		

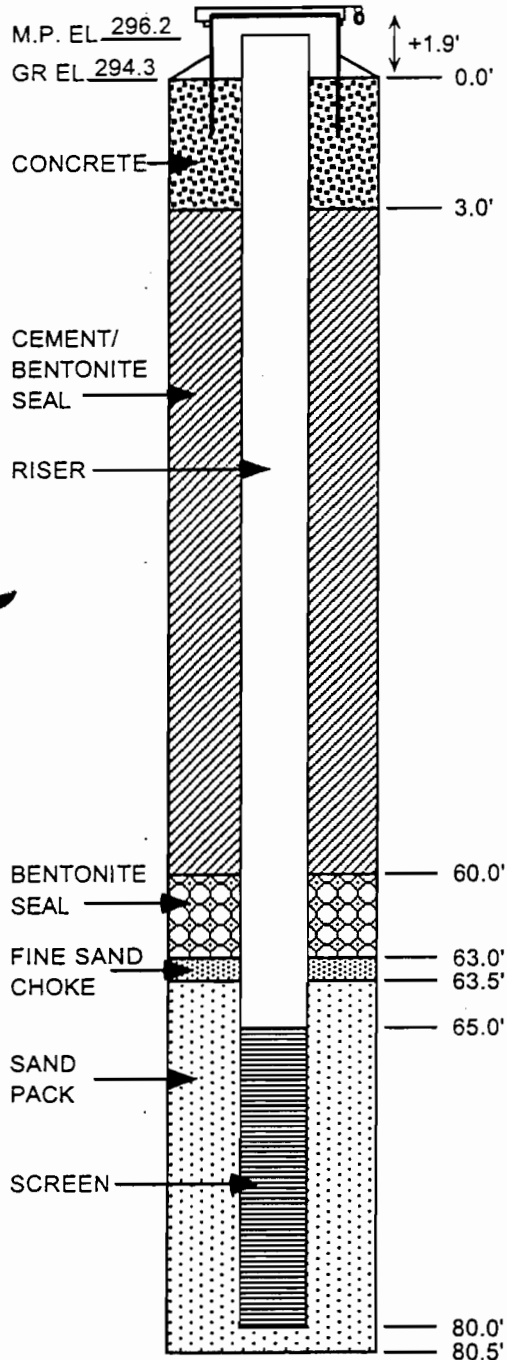
Monitoring Well Completion Logs

MONITORING WELL COMPLETION LOG WELL NO. MW-99-14

Earth Tech, Inc.
12 Metro Park Road
Albany, NY 12205
(518) 458-1313

Project 300 Block Investigation
 Client Glenville Energy Park Holdings, LLC
 Location Scotia-Glenville Industrial Park, Glenville, NY
 Project No. 37089.01
 Date Drilled 10/27/99
 Date Developed 10/29/99

WELL CONSTRUCTION DETAIL



NOT TO SCALE

INSPECTION NOTES

Inspector Mark A. Williams
 Drilling Contractor Parratt-Wolff, Inc. (Layne Pech)
 Type of Well Environmental Monitoring
 Static Water Level 68.81' Date 11/1/99
 Measuring Point (M.P.) Top of Inner Casing
 Total Depth of Boring 82.0' BGS

Drilling Method

Type Hollow Stem Auger Diameter 4 1/4" I.D.
 Casing Steel

Sampling Method

Type Split-Spoon Diameter 2"
 Weight 140# Fall 30"
 Interval Standard Intervals

Riser Pipe Left in Place

Material Schedule 40 PVC Diameter 2" I.D.
 Length 67.0' Joint Type Flush, Threaded

Screen

Material Schedule 40 PVC Diameter 2" I.D.
 Slot Size 10-Slot Length 15.0'
 Stratigraphic Unit Screened Sand with Gravel

Filter Pack

Sand X Gravel Natural
 Grade 0 Unimin / 00 Unimin Fine Sand Choke
 Amount 550# / 25# Interval Sand Pack: 63.5' to 80.5'
 Sand Choke: 63.0' to 63.5'

Seal(s)

Type Concrete Interval 0.0' to 3.0'
 Type Cement-Bentonite Grout Interval 3.0' to 60.0'
 Type Bentonite Interval 60.0' to 63.0'

Locking Casing ☒ Yes ☐ No

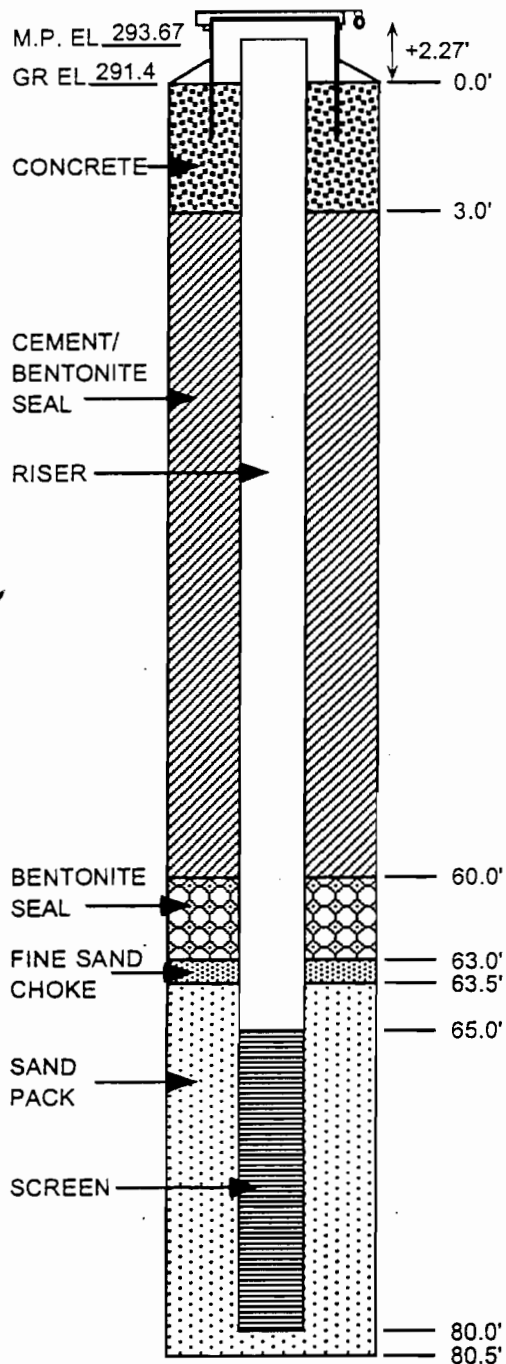
Notes:

MONITORING WELL COMPLETION LOG WELL NO. MW-99-15

Earth Tech, Inc.
12 Metro Park Road
Albany, NY 12205
(518) 458-1313

Project 300 Block Investigation
Client Glenville Energy Park Holdings, LLC
Location Scotia-Glenville Industrial Park, Glenville, NY
Project No. 37089.01
Date Drilled 10/28/99
Date Developed 10/29/99

WELL CONSTRUCTION DETAIL



INSPECTION NOTES

Inspector Mark A. Williams
Drilling Contractor Parratt-Wolff, Inc. (Layne Pech)
Type of Well Environmental Monitoring
Static Water Level 66.55' Date 11/1/99
Measuring Point (M.P.) Top of Inner Casing
Total Depth of Boring 82.0' BGS

Drilling Method

Type Hollow Stem Auger Diameter 4 1/4" I.D.
Casing Steel

Sampling Method

Type Split-Spoon Diameter 2"
Weight 140# Fall 30"
Interval Standard Intervals

Riser Pipe Left in Place

Material Schedule 40 PVC Diameter 2" I.D.
Length 67.0' Joint Type Flush, Threaded

Screen

Material Schedule 40 PVC Diameter 2" I.D.
Slot Size 10-Slot Length 15.0'
Stratigraphic Unit Screened Sand with Gravel

Filter Pack

Sand X Gravel Natural
Grade 0 Unimin / 00 Unimin Fine Sand Choke
Amount 500# / 30# Interval Sand Pack: 63.5' to 80.5'
300 Sand Choke: 63.0' to 63.5'

Seal(s)

Type Concrete Interval 0.0' to 3.0'
Type Cement-Bentonite Grout Interval 3.0' to 60.0'
Type Bentonite Interval 60.0' to 63.0'

Locking Casing ☒ Yes ☐ No

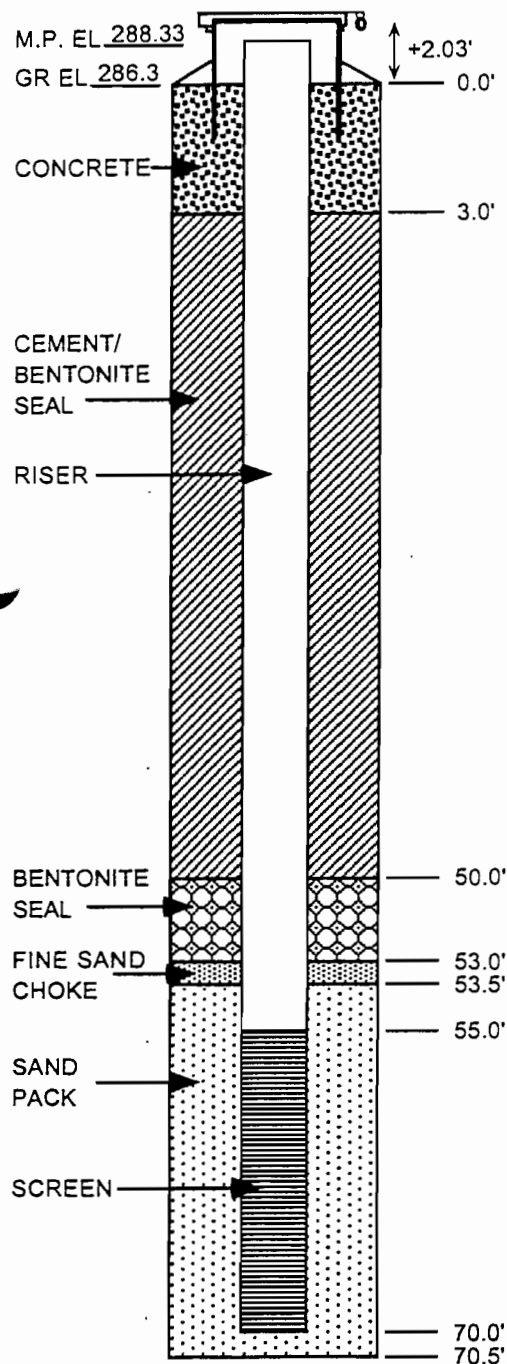
Notes:

MONITORING WELL COMPLETION LOG WELL NO. MW-99-16

Earth Tech, Inc.
12 Metro Park Road
Albany, NY 12205
(518) 458-1313

Project 300 Block Investigation
Client Glenville Energy Park Holdings, LLC
Location Scotia-Glenville Industrial Park, Glenville, NY
Project No. 37089.01
Date Drilled 10/29/99
Date Developed 11/1/99

WELL CONSTRUCTION DETAIL



NOT TO SCALE

INSPECTION NOTES

Inspector Mark A. Williams
Drilling Contractor Parratt-Wolff, Inc. (Layne Pech)
Type of Well Environmental Monitoring
Static Water Level 62.52' Date 11/1/99
Measuring Point (M.P.) Top of Inner Casing
Total Depth of Boring 72.0' BGS

Drilling Method

Type Hollow Stem Auger Diameter 4 1/4" I.D.
Casing Steel

Sampling Method

Type Split-Spoon Diameter 2"
Weight 140# Fall 30"
Interval Standard Intervals

Riser Pipe Left in Place

Material Schedule 40 PVC Diameter 2" I.D.
Length 57.0' Joint Type Flush, Threaded

Screen

Material Schedule 40 PVC Diameter 2" I.D.
Slot Size 10-Slot Length 15.0'
Stratigraphic Unit Screened Fine Sand with Gravel

Filter Pack

Sand X Gravel Natural
Grade 0 Unimin / 00 Unimin Fine Sand Choke
Amount 650# / 35# Interval Sand Pack: 53.5' to 70.5'
Sand Choke: 53.0' to 53.5'

Seal(s)

Type Concrete Interval 0.0' to 3.0'
Type Cement-Bentonite Grout Interval 3.0' to 50.0'
Type Bentonite Interval 50.0' to 53.0'

Locking Casing ☒ Yes ☐ No

Notes:

Well Development Logs

PROJECT INFORMATION

Project Name: GEP
Project No.: 37089
Date: 6/13/01
Personnel: SKIP DELCLOS

WELL INFORMATION

Well I.D.: GEP-1
Screen diameter (inches): 2"
Screen length (feet): 15'
Riser diameter (inches): 2"
Depth to Water (ft): 65.31'
Well Depth (initial): 77.04'
Well Volume (gals): 1.91

} TOP OF
PVCDEVELOPMENT INFORMATION

Time Start: 9:10 A.M. Time Finish: 10:35 A.M.

Method: BAILER

Volume Removed (gals.): 20

Well Depth (final): 77.30'

Sand/Silt Accumulation: .26'

GW QUALITY PARAMETERS

Gallons	Time A.M.	DTW	Color	Odor	pH	Conductivity	Turbidity	Temp (C)	Observations
4	9:25		BROWN	NONE	7.6	.406	>999	13.0	
8	9:40		BROWN	NONE	7.5	.401	>999	13.1	
12	9:55		BROWN	NONE	7.42	.408	>999	12.9	
16	10:20		BROWN	NONE	7.32	.397	>999	13.9	
20	10:35		BROWN	NONE	7.39	.406	>999	14.0	

Notes:

PROJECT INFORMATION

Project Name: GEP
Project No.: 37089
Date: 6/13/01
Personnel: TARA KING

WELL INFORMATION

Well I.D.: GEP-2
Screen diameter (inches): 2"
Screen length (feet): 15'
Riser diameter (inches): 2"
Depth to Water (ft): 62.1'
Well Depth (initial): 75.21
Well Volume: (gals): 2.13

DEVELOPMENT INFORMATION

Time Start: 12:40 P.M. Time Finish: 2:52 P.M.

Method: BAILER

Volume Removed (gals.): 20

Well Depth (final): _____

Sand/Silt Accumulation: _____

GW QUALITY PARAMETERS

Gallons	Time	DTW	Color	Odor	pH	Conductivity	Turbidity	Temp (C)	Observations
4	1:00		BROWN	NONE	7.22	.538	>999	15.2	
8	1:27		BROWN	NONE	7.0	.539	>999	14.6	
12	1:51		BROWN	NONE	7.46	.540	>999	14.3	
16	2:16		BROWN	NONE	7.06	.543	>999	14.8	
20	2:52		BROWN	NONE	7.19	.534	>999	14.7	

Notes: - DRILLER NOTICED SWEET SMELL ON AFTERNOON OF 6/12
DURING INSTALLATION
- NO STICK-UP AT TIME OF MEASUREMENT

PROJECT INFORMATION

Project Name: GEP
Project No.: 37089
Date: 6/14/01
Personnel: SKIP DELCLOS

WELL INFORMATION

Well I.D.: GEP-3
Screen diameter (inches): 2"
Screen length (feet): 15'
Riser diameter (inches): 2"
Depth to Water (ft): 62.75'
Well Depth (initial): 77.11'
Well Volume: (gals): 2.34

} TOP OF PVC

DEVELOPMENT INFORMATION

Time Start: 2:05 P.M. Time Finish: 4:10 P.M.
Method: BAILER
Volume Removed (gals.): 25
Well Depth (final): 77.20'
Sand/Silt Accumulation: .09'

GW QUALITY PARAMETERS

Gallons	Time P.M.	DTW	Color	Odor	pH	Conductivity	Turbidity	Temp (C)	Observations
4	2:22		BROWN	NONE	7.63	.53	>999	15.0	
8	2:45		BROWN	NONE	7.45	.463	>999	14.4	
12	3:19		BROWN	NONE	7.33	.432	>999	14.5	
16	3:40		BROWN	NONE	7.28	.407	>999	14.0	
20	4:00		BROWN	NONE	7.45	.433	>999	13.5	
23	4:10		BROWN	NONE	7.37	.431	>999	14.5	

Notes:

PROJECT INFORMATION

Project Name: GEP
Project No.: 37089
Date: 6/14/01
Personnel: SKIP DELCLOS

WELL INFORMATION

Well I.D.: GEP-4
Screen diameter (inches): 2"
Screen length (feet): 15'
Riser diameter (inches): 2"
Depth to Water (ft): 65.35'
Well Depth (initial): 77.43'
Well Volume: (gals): 1.97

} TOP OF
PVCDEVELOPMENT INFORMATION

Time Start: 3:15 Time Finish: 4:25
Method: BAILER
Volume Removed (gals.): 20
Well Depth (final): 77.47'
Sand/Silt Accumulation: .04'

GW QUALITY PARAMETERS

Gallons	Time	DTW	Color	Odor	pH	Conductivity	Turbidity	Temp (C)	Observations
4	3:28		BROWN	NONE	7.04	.466	>999	13.1	
8	3:45		BROWN	NONE	7.12	.446	>999	13.2	
12	4:00		BROWN	NONE	7.15	.447	>999	13.1	
16	4:15		BROWN	NONE	7.15	.439	>999	13.5	
20	4:25		BROWN	NONE	7.13	.440	>999	13.2	

Notes:

Well Sampling Logs

WELL SAMPLING LOG

PROJECT INFORMATION

Project Name: GEP
Project No.: 37089
Date: 6/14/01
Personnel: SKIP DELLOS
TARA KING

WELL INFORMATION

Well I.D.: MW-99-14
Well Condition: GOOD
Depth to Water (ft BMP): 65.23'
Well Depth (initial) (ft BMP): 78.47'
Well Volume: 2.16

SAMPLING INFORMATION

Time Start: 8:43 AM Time Finish: 8:45 A.M.
Method: KEMMERER
Volume Purged (gals.): 7

FIELD PARAMETERS

Time	pH (s.u.)	Conductivity (µmhos)	Turbidity (NTU)	Temp (C)	Odor	Color	Dissolved Oxygen	Observations
8:45	7.18	433	397	14.3	NONE	LGT. TAN	---	Water Table is 1.7 Ft. above top of well screen. Top of Water table sample collected @ 65.23' to

Notes: SAMPLES COLLECTED AT TOP OF WATER, 10 FEET FROM BOTTOM OF SCREEN, AND 1 FOOT FROM BOTTOM OF SCREEN (TOW 2:20 P.M. ON 13th, 10' FROM BOS 8:45 A.M. ON 14th, 1' FROM BOS 8:45 A.M. ON 14th)

WELL SAMPLING LOG

PROJECT INFORMATION

Project Name: GEP
Project No.: 37089
Date: 6/13/01
Personnel: SKIP DELCLOS
TANA KING

WELL INFORMATION

Well I.D.: MW-99-14
Well Condition: GOOD
Depth to Water (ft BMP): 65.23'
Well Depth (initial) (ft BMP): 78.47'
Well Volume: 2.16

SAMPLING INFORMATION

Time Start: 2:15 Time Finish: 2:20
Method: BADLER
Volume Purged (gals.): 6.5

FIELD PARAMETERS

Time	pH	Conductivity	Turbidity	Temp (C)	Odor	Color	Dissolved Oxygen	Observations
2:25	6.96	.563	285	14.5	NONE	LG. TAN		

Notes:

SAMPLE COLLECTED FROM TOP OF WATER

WELL SAMPLING LOG

PROJECT INFORMATION

Project Name: GEP
Project No.: 37089
Date: 6/13/01
Personnel: SKIP DELLLOS
TARA KING

WELL INFORMATION

Well I.D.: MW-99-15
Well Condition: GOOD
Depth to Water (ft BMP): 63.36'
Well Depth (initial) (ft BMP): 81.82'
Well Volume: 8.87

SAMPLING INFORMATION

Time Start: 11:45 A.M. Time Finish: 3:52 P.M.
Method: KEMERER
Volume Purged (gals.): 9

FIELD PARAMETERS

Time	pH	Conductivity	Turbidity	Temp (C)	Odor	Color	Dissolved Oxygen	Observations
A.M. 11:46	7.48	.381	>999	16.7	NONE	BROWN		

Notes: SAMPLES COLLECTED AT TOP OF WATER, 10 FEET
FROM BOTTOM OF SCREEN, AND 1 FOOT FROM BOTTOM
OF SCREEN (TOW 11:55 A.M., 10' BOS 3:52 P.M.,
1' BOS 3:52 P.M.)

WELL SAMPLING LOG

PROJECT INFORMATION

Project Name: GEP
Project No.: 37089
Date: 6/12/01
Personnel: SKIP DELLOS

WELL INFORMATION

Well I.D.: MW-99-15
Well Condition: GOOD
Depth to Water (ft BMP): 63.37'
Well Depth (initial) (ft BMP): 82.76'
Well Volume: 3.16

SAMPLING INFORMATION

Time Start: 12:45 P.M. Time Finish: 12:50 P.M.
Method: BAILER
Volume Purged (gals.): 10

FIELD PARAMETERS

Time	pH	Conductivity	Turbidity	Temp (C)	Odor	Color	Dissolved Oxygen	Observations
3:00	7.12	.417	645	15.9	NONE	LGT. TAN		

Notes: SAMPLE COLLECTED FROM TOP OF WATER

WELL SAMPLING LOG

PROJECT INFORMATION

Project Name: GEP
Project No.: 37089
Date: 6/14/01
Personnel: SKIP DELLOS
TARA KING

WELL INFORMATION

Well I.D.: GEP-1
Well Condition: GOOD
Depth to Water (ft BMP): 65.3'
Well Depth (initial) (ft BMP): 77.04
Well Volume: 1.91

SAMPLING INFORMATION

Time Start: 12:44 P.M. Time Finish: 12:46 P.M.
Method: KEMMELER
Volume Purged (gals.): 6

FIELD PARAMETERS

Time	pH	Conductivity	Turbidity	Temp (C)	Odor	Color	Dissolved Oxygen	Observations
12:45	7.63	.394	189	14.8	NONE	LG.T. TAN		

Notes: SAMPLES COLLECTED AT TOP OF WATER, 10 FEET FROM BOTTOM OF SCREEN, AND 1 FOOT FROM BOTTOM OF SCREEN (TOW 12:46, 10 FEET FROM BOS 12:48, 1 FOOT FROM BOS 12:50)

WELL SAMPLING LOG

PROJECT INFORMATION

Project Name: GEP
Project No.: 37089
Date: 6/14/01
Personnel: SKIP DELLLOS
TANA KING

WELL INFORMATION

Well I.D.: GEP-2
Well Condition: Good
Depth to Water (ft BMP): 65.5
Well Depth (initial) (ft BMP): 78.29
Well Volume: 2.08

ADDED RISER
PIPE

SAMPLING INFORMATION

Time Start: 11:47 A.M. Time Finish: 11:50 A.M.
Method: KEMERLER
Volume Purged (gals.): 7

FIELD PARAMETERS

Time	pH	Conductivity	Turbidity	Temp (C)	Odor	Color	Dissolved Oxygen	Observations
10:30	6.85	.543	7999	20.5	NONE	BROWN		

Notes: SAMPLES COLLECTED AT TOP OF WATER, 10 FEET FROM
BOTTOM OF SCREEN, AND 1 FOOT FROM BOTTOM OF SCREEN
(TDW 4:00 P.M. ON 13th, 10' FROM BOS 11:47 ON 14th, 1'
FROM BOS ON 14th 11:47)

Glenville Energy Park

<u>Soil Gas ID</u>	<u>Time</u>	<u>Depth (ft)</u>	<u>PID (ft)</u>	<u>Comments</u>
SG-1	7:48 AM	2.5	1.3	Peaked at 1.4
SG-2	7:55 AM	2.3	0.7	Peaked at 1.2
SG-3	8:05 AM	2.5	0.7	Peaked at 1.3
SG-4	8:18 AM	2.9	0.2	Peaked at 0.3
SG-5	8:58 AM	2.0	0.0	
SG-6	8:53 AM	1.5	0.1	
SG-7	9:12 AM	2.7	0.3	
SG-8	9:30 AM	2.9	0.1	

Notes:

9:45 - 9:55 am collected surficial soils samples (asbestos) A-1, A-2, A-3 (see soil gas map).

Chain of Custody Record

Project Number		Project Name/Client		Custody Seal #		Earth Tech Cooler #	
Sample Custodian: (Signature)				Analysis Required		Matrix	
Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Disposed of by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Disposed of by: (Signature)	
Send Lab Results To:		Remarks:		Check Delivery Method:		Laboratory Receiving Notes:	
		Federal Express Airbill No.:		☐ Samples delivered in person ☐ Common carrier		Custody Seal Intact?	
		Lab:				Temp. of Shipping Container:	
						Sample Condition:	

White Copy - Lab Yellow Copy - File Pink Copy - Client

APPENDIX C

Laboratory Analytical Reports with DUSRs (June 13, 2001 Test Pit Soil Sampling Event (Soil))

Data Validation Report

M E M O

To: Mark Williams, Project Manager

From: Lisa Smith, Environmental Chemist

Subject: **Data Validation**
Supplemental Subsurface Investigation
Glenville Energy Park (GEP)

The assessment of the data packages submitted to Earth Tech from Adirondack Environmental Services of Albany, New York for the June 2001 Supplemental Subsurface Investigation has been completed. Samples that have been reviewed are summarized in Table 1. The analytical data was reviewed using procedures contained in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999, and the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," February 1994. These guidelines were modified to utilize criteria contained in the appropriate method. The results for the following quality control (QC) parameters were reviewed:

Organics

Holding Time
GC/MS Instrument Tunes
Initial Calibrations
Continuing Calibrations
Laboratory and Field Blanks
Surrogate Spike Recoveries
Matrix Spikes/Matrix Spike Duplicates
Laboratory Control Samples
Internal Standards
Quantitation Limits

Inorganics

Holding Times
Calibrations
Laboratory and Field Blanks
ICP Interference Check Samples
Matrix Spikes
Laboratory Control Sample
Matrix Spikes/Matrix Spike Duplicates
ICP Serial Dilutions
Quantitation Limits

Qualifier codes have been placed next to results so that the data user can assess the qualitative and/or quantitative reliability of the results. The qualified analytical data can be found in Attachment A. Definitions of the qualifier codes used during validation are as follows:

- U - The analyte was analyzed for, but not detected above the reported sample quantitation limit.
- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality criteria. The presence or absence of the analyte cannot be verified.

The following sections of this report provide a critical review of the laboratory analyses and reported analytical results. Quality assurance reviews of laboratory-generated data routinely identify various problems associated with analytical measurements, even from the most-experienced and capable laboratories. The following sections discuss only deviations from analytical methodologies and data validation criteria. If a QC parameter as listed above is not discussed, method and laboratory specific criteria have been met. The qualified analytical data is included in Attachment A.

1.0 VOLATILE ORGANIC COMPOUNDS

Five soil samples, twelve water samples, and two trip blanks were collected and analyzed for volatile organics compounds using SW-846 Method 8260.

1.1 Sample Receipt

Soil samples collected June 12, 2001 were received at the laboratory outside the 4 ± 2 °C criteria. The laboratory reported a sample receipt temperature of 9 °C. Samples associated with the high sample receipt temperature were qualified estimated (UJ and J) and are considered to have a potential for low bias. Result qualified include:

TP-01-01(5')	TP-01-02(14')	TP-01-03(13')	TP-01-04(13.5')
TP-01-07(6-8')			

1.2 Initial Calibration

Acetone exceeded the data validation Relative Standard Deviation (RSD) criteria of 30 percent for initial calibration. The laboratory reported an RSD for acetone of 36.1 percent. Associated acetone results were qualified estimated (UJ and J).

1.3 Continuing Calibrations

Table 2 summarizes continuing calibration exceedances and the results qualified. Associated results were qualified estimated (UJ and J) if the 25 percent difference continuing calibration data validation criteria was exceeded.

1.4 Laboratory Blanks

Table 3 summarizes contaminants detected in laboratory blanks and the results qualified. The 10 times rule was used to determine action limits for common lab contaminants (i.e., methylene chloride), while the five times rule was used for other compounds. Sample concentrations within 5 or 10 times the associated laboratory blank concentration were qualified as undetected (U). In addition, values less than the reporting limit were raised to the reporting limit and qualified undetected (U) in accordance with validation guidelines. Sample dilutions and sample prep volumes were taken into consideration during data qualification. Results qualified as undetected (U) due to laboratory contamination are considered as false positives.

1.5 Quantitation Limits

Eight samples were diluted due to high concentrations of target compounds. These sample dilutions resulted in elevated detection limits.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

Five soil samples were collected and analyzed for semivolatile organics compounds using SW-846 Method 8270.

2.1 Sample Receipt

Soil samples collected June 12, 2001 were received at the laboratory outside the 4 ± 2 °C criteria. The laboratory reported a sample receipt temperature of 9 °C. Samples associated with the high sample receipt temperature were qualified estimated (UJ and J) and are considered to have a potential for low bias. Result qualified include:

TP-01-01(5')	TP-01-02(14')	TP-01-03(13')	TP-01-04(13.5')
TP-01-07(6-8')			

2.2 Initial Calibration

2,4-Dinitrophenol, 4-nitrophenol, carbazole, and 3,3'-dichlorobenzidine exceeded the data validation RSD criteria of 30 percent for initial calibrations. Associated 2,4-dinitrophenol, 4-nitrophenol, carbazole, and 3,3'-dichlorobenzidine results were qualified estimated (UJ and J).

2.3 Matrix Spike/Matrix Spike Duplicates

The spiked sample TP-01-04(13.5') had no recovery of 4-nitrophenol during MS/MSD analysis. The 4-nitrophenol result for the unspiked sample was a nondetect and qualified rejected (R) due to the inability to recover this compound during MS/MSD analysis.

The spiked sample TP-01-04(13.5') had high phenol recoveries during MS/MSD analysis. The laboratory reported recoveries of 104 and 99 percent, while the acceptable recovery range is 26-90 percent. Only positive results are qualified due to high recoveries. Phenol was not detected in the unspiked sample and did not require qualification.

3.0 PESTICIDES AND PCBs

Three soil samples were collected and analyzed for pesticides and PCBs using SW-846 Methods 8081 and 8082.

3.1 Sample Receipt

Soil samples collected June 12, 2001 were received at the laboratory outside the 4 ± 2 °C criteria. The laboratory reported a sample receipt temperature of 9 °C. Pesticide samples associated with the high sample receipt temperature were qualified estimated (UJ and J) and are considered to have a potential for low bias. Result qualified include:

TP-01-01(5')

TP-01-03(13')

TP-01-07(6-8')

3.2 Surrogate Recoveries

The laboratory reported high recoveries for the surrogate tetrachloro-m-xylene on the primary analytical column. These recoveries ranged from 270 to 1982 percent. The high recoveries also occurred in the extraction blank and the blank spike indicating a systematic problem. Pesticide results were previously qualified due a high sample receipt temperature and further qualifications were not made.

3.3 Quantitation

The detects of alpha-BHC, beta-BHC, and aldrin in sample TP-01-01(5') exceeded the 25 percent difference criteria for dual column analyses. These results were previously qualified due to a high sample receipt temperature and further qualifications were not made.

4.0 METALS

Three soil samples were collected and analyzed for metals using SW-846 Methods.

4.1 CRDL Standard Recovery

Thallium had a high CRDL standard recovery. The laboratory reported a recovery of 138.4 percent, while the acceptable recovery range is 70 to 130 percent. Samples TP-01-03(13') and TP-01-07(6-8') reported positive thallium results within five times the CRDL concentration. These thallium results were qualified undetected (U) due to blank contamination as discussed in Section 4.2 and further qualifications were not made.

4.2 Method Blanks

The table below summarizes the maximum concentration detected in the blanks and the associated Action Level for each analyte. Results within the action level were qualified undetected (U) and are considered false positives due to laboratory contamination. Associated nondetect values or values over the Action Level did not require qualification. Dry weight calculations were taken into consideration during data qualification.

Analyte	Maximum Blank Concentration	Soil Action Level (mg/Kg)	Samples Qualified U
Aluminum	16.9 ug/L	16.9	None
Antimony	5.0 ug/L	5	None
Cadmium	0.049 mg/Kg	0.245	None
Calcium	2.653 mg/Kg	13.265	None
Iron	1.968 mg/Kg	9.84	None
Magnesium	7.9 ug/L	7.9	None
Mercury	0.066 mg/Kg	0.33	TP-01-01(5') TP-01-03(13') - TP-01-07(6-8')
Nickel	0.140 mg/Kg	0.70	None
Potassium	1.674 mg/Kg	8.37	None
Selenium	0.662 mg/Kg	3.31	None
Thallium	6.7 ug/L	6.7	TP-01-03(13') TP-01-07(6-8')

4.3 Interference Check Sample

Calcium and iron had low recoveries during analysis of the interference check sample. The laboratory reported calcium recoveries of 76.2 and 76.1 percent and iron recoveries of 58.8 and 62.6 percent. The acceptable recovery range is 80 to 120 percent. Samples are potentially affected by the interference if the concentrations of the interferent are present in the sample at a concentration of 75 percent or greater than that present in the ICS. The calcium concentration for sample TP-01-03(13') was the only sample interferent concentration greater than 75 percent of the ICS concentration and this value was qualified estimated (J).

4.4 Matrix Spikes

Sample TP-01-01(5') had low recoveries of antimony and selenium. The laboratory reported recoveries of 29.8 and 72.6 percent, respectively, while the acceptable recovery range is 75 to 125 percent. Associated antimony results were nondetects and qualified rejected (R) since the recovery fell below the 30 percent data validation criteria. Selenium results were also nondetects and qualified estimated (UJ).

4.5 Laboratory Duplicates

The laboratory duplicate for sample TP-01-01(5') had a high RPD for lead. The laboratory reported an RPD of 35.6 percent, while the acceptable RPD limit is 35 percent. Associated lead results were positive values and qualified estimated (J).

4.6 Serial Dilutions

ICP serial dilution results for iron, magnesium, nickel, potassium, and zinc exceeded the 10 percent difference criteria. Associated positive results were qualified estimated (J).

5.0 OVERALL ASSESSMENT

Samples collected during this sampling event were successfully analyzed and are acceptable for project use, with the exception of one SVOC result and three antimony results rejected due to extremely low MS/MSD recoveries. In addition, results were qualified as estimated (UJ or J) due to noncompliant QC results. Results qualified as estimated are usable, however, sample bias may be associated with these results.

TABLE 1
SAMPLES COLLECTED
SUPPLEMENTAL SUBSURFACE INVESTIGATION
GLENVILLE ENERGY PARK (GEP)
GLENVILLE, NEW YORK

Field ID	Date Collected	Lab ID	Parameter
GEP-1	6/14/01	010614AO-02	VOCs
GEP-1(2)	6/20/01	010620BN-02	VOCs
GEP-2	6/14/01	010614AO-01	VOCs
GEP-2(2)	6/20/01	010620BN-05	VOCs
GEP-3	6/19/01	010620E-05	VOCs
GEP-4	6/20/01	010620BN-04	VOCs
MW-6	6/19/01	010620E-01	VOCs
MW-7	6/19/01	010620E-02	VOCs
MW-13	6/20/01	010620BN-01	VOCs
MW-99-14	6/19/01	010620E-03	VOCs
MW-99-15	6/20/01	010620BN-03	VOCs
MW-99-16	6/19/01	010620E-04	VOCs
TP-01-01(5')	6/12/01	010613W-01	VOCs, SVOCs, Pesticides & PCBs, Metals
TP-01-02(14')	6/12/01	010613W-02	VOCs, SVOCs
TP-01-03(13')	6/12/01	010613W-03	VOCs, SVOCs, Pesticides & PCBs, Metals
TP-01-04(13.5')	6/12/01	010613W-05	VOCs, SVOCs
TP-01-07(6-8')	6/12/01	010613W-04	VOCs, SVOCs, Pesticides & PCBs, Metals
TB-1 Trip Blank	6/14/01	010614AO-03	VOCs
TB-2 Trip Blank	6/19/01	010620E-06	VOCs

TABLE 1 (Continued)

**SAMPLES COLLECTED
SUPPLEMENTAL SUBSURFACE INVESTIGATION
GLENVILLE ENERGY PARK (GEP)
GLENVILLE, NEW YORK**

Field ID	Date Collected	Lab ID	Parameter
TB3 Trip Blank	6/20/01	010620BN-06	VOCs

TABLE 2
CONTINUING CALIBRATION EXCEEDANCES
SUPPLEMENTAL SUBSURFACE INVESTIGATION
GLENVILLE ENERGY PARK (GEP)
GLENVILLE, NEW YORK

Analysis Date	Compound	RPD	RPD Limit	Results Qualified
6/20/01	Bromomethane	36.4	25	Results qualified UJ and J;
	Acetone	34.7	25	GEP-2 TP-01-01(5') TP-01-02(14')
	2-Butanone	38.8	25	TP-01-03(13') TP-01-04(13.5') TP-01-07(6-8')
	2-Hexanone	26.1	25	TB-1
6/21/01	Bromomethane	40.2	25	Results qualified UJ and J;
	Acetone	69.1	25	GEP-1 GEP-1(2) GEP-2(2)
	2-Butanone	56.0	25	MW-6 MW-7 MW-99-14
	2-Hexanone	48.9	25	MW-99-16 TB-2
6/22/01	Chloromethane	29.0	25	Results qualified UJ and J;
	Acetone	63.5	25	GEP-3 GEP-4 MW-13
	2-Butanone	47.5	25	MW-99-15 TB3
	2-Hexanone	33.8	25	
NOTES:				
RPD	Relative Percent Difference			
J	Estimated			
UJ	Quantitation limit estimated			

TABLE 3

**CONTAMINANTS DETECTED IN LABORATORY BLANKS
SUPPLEMENTAL SUBSURFACE INVESTIGATION
GLENVILLE ENERGY PARK (GEP)
GLENVILLE, NEW YORK**

Blank ID	Date Analyzed	Compound Detected	Concentration	Results Qualified U	
VBLK01	6/20/01	Methylene Chloride	5 J ug/Kg	TP-01-02(14')	TP-01-03(13') TB-1
		Chloroform	1 J ug/Kg	TP-01-03(13')	TP-01-07(6-8') GEP-2
VBLK02	6/21/01	Methylene Chloride	2 J ug/L	GEP-1	GEP-1(2) GEP-2(2) TB-2
		Chloroform	4 J ug/L	GEP-1	GEP-1(2) GEP-2(2) MW-6
VBLK03	6/22/01	Methylene Chloride	2 J ug/L	GEP-4	
		Chloroform	3 J ug/L	GEP-3 MW-99-15	GEP-4 MW-13 TB3
PBLKE1	6/27/01	gamma-Chlordane	0.12 J ug/Kg	Not detected in associated samples, results not qualified.	
NOTES:					
U	Undetected				
J	Estimated				

Attachment A

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: ET0110

SAS No.:

SDG No.: GEP-1

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
1	GEP-2	88	90	89		0
2	TB-1	91	94	90		0
3	GEP-2 MS	93	100	97		0
4	GEP-2 MSD	95	99	97		0
5	VMSB	89	93	88		0
6	VBLK02	98	87	100		0
7	GEP-1	96	87	94		0
8	MW-6	100	90	99		0
9	MW-7	101	91	101		0
10	MW-99-14	103	88	105		0
11	MW-99-16	101	89	100		0
12	TB-2	101	90	102		0
13	GEP-1 (2)	105	93	106		0
14	GEP-2 (2)	100	90	101		0
15	VBLK03	95	101	99		0
16	GEP-3	94	94	91		0
17	MW-13	90	97	98		0
18	MW-99-15	91	92	95		0
19	GEP-4	91	91	96		0
20	TB3	96	98	93		0
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

SMC1 (TOL) = Toluene d-8 (88-110)
 SMC2 (BFB) = Bromofluorobenzene (86-115)
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: ET0110

SAS No.:

SDG No.: GEP-1

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
1	VBLK01	93	96	93		0
2	TP-01-01	94	97	93		0
3	TP-01-02	94	96	94		0
4	TP-01-03	90	93	94		0
5	TP-01-07	92	94	94		0
6	TP-01-04	95	98	95		0
7	TP-01-04 MS	91	94	90		0
8	TP-01-04 MSD	88	92	90		0
9	VMSB	81 *	85	83		1
10						
11						
12						
13						
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30						

QC LIMITS

SMC1 (TOL) = Toluene d-8 (84-138)
 SMC2 (BFB) = Bromofluorobenzene (71-121)
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: ETH0110 SAS No.:

SDG No.: GEP-1

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	TOT OUT
1	SBLK01	74	77	111	61	54	72	0
2	SMSB	53	97	126	70	54	104	0
3	TP-01-01	81	97	116	85	51	87	0
4	TP-01-02	46	82	111	60	49	76	0
5	TP-01-03	79	93	130	74	51	71	0
6	TP-01-07	64	86	107	55	54	78	0
7	TP-01-04	66	97	118	66	48	82	0
8	TP-01-04 MS	75	90	110	64	24 *	94	1
9	TP-01-04 MSD	83	94	124	68	56	88	0
10								
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QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (23-120)
 S2 (FBP) = 2-Fluorobiphenyl (30-115)
 S3 (TPH) = Terphenyl-d14 (18-137)
 S4 (PHL) = Phenol-d5 (24-113)
 S5 (2FP) = 2-Fluorophenol (25-121)
 S6 (TBP) = 2,4,6-Tribromophenol (19-122)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name:AES

Contract:ETH

Lab Code:AES

Case No.:0110

SAS No.:

SDG No.:GEP-1

GC Column(1):DB1701

ID: 0.53 (mm)

GC Column(2):DB608

ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKE1	270*	98	128	120			1
02	PMSBE2	1982*	75	123	117			1
03	TP-01-01	442*	78	114	114			1
04	TP-01-01 MS	499*	93	121	114			1
05	TP-01-01 MSD	428*	93	114	114			1
06	TP-01-03	504*	101	108	108			1
07	TP-01-07	698*	92	106	106			1
08								
09								
10								
11								
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TCX = Tetrachloro-m-xylene
DCB = Decachlorobiphenyl

ADVISORY
QC LIMITS
(30-150)
(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

2F
SOIL PCB SURROGATE RECOVERY

Lab Name: AES, INC.

Contract:

Lab Code: AES

Case No.: ETH0110

SAS No.:

SDG No.: GEP-1

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 DCB #	OTHER
1	PBLKE1	93	
2	PMSBE1	103	
3	TP-01-01(5')	98	
4	TP-01-03(13')	103	
5	TP-01-07(6-8')	98	
6	TP-01-03(13') MS	110	
7	TP-01-03(13') MSD	101	
8			
9			
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ADVISORY
QC LIMITS
(50-150)

S1 = DCB

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2F
SOIL PCB SURROGATE RECOVERY

Lab Name: AES, INC.

Contract:

Lab Code: AES

Case No.: ETH0110

SAS No.:

SDG No.: GEP-1

Level: (low/med) LOW

CONFIRMATION

	EPA SAMPLE NO.	S1 DCB #	OTHER
	=====	=====	=====
1	PBLKE1	87	
2	TP-01-01(5')	97	
3	TP-01-07(6-8')	92	
4			
5			
6			
7			
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S1 = DCB

ADVISORY
QC LIMITS
(50-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Form 1A – VOC Results
(June 13, 2000 Test Pit Soil Sampling Event)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-01(5)

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) SOIL	SDG No.: GEP-1
Sample wt/vol: 5.000 (g/mL) G	Lab Sample ID: TP-01-01(5)
Level: (low/med) LOW	Lab File ID: D0801
% Moisture: not dec. 5.	Date Received: 06/13/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/20/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

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

74-87-3-----Chloromethane	11.	U
74-83-9-----Bromomethane	11.	U
75-01-4-----Vinyl Chloride	11.	U
75-00-3-----Chloroethane	11.	U
75-09-2-----Methylene Chloride	5.	U
67-64-1-----Acetone	11.	U
75-15-0-----Carbon Disulfide	5.	U
75-35-4-----1,1-Dichloroethene	5.	U
75-34-3-----1,1-Dichloroethane	5.	U
156-60-5-----1,2-Dichloroethene-trans	5.	U
67-66-3-----Chloroform	5.	U
107-06-2-----1,2-Dichloroethane	5.	U
78-93-3-----2-Butanone	11.	U
71-55-6-----1,1,1-Trichloroethane	5.	U
56-23-5-----Carbon Tetrachloride	5.	U
75-27-4-----Bromodichloromethane	5.	U
78-87-5-----1,2-Dichloropropane	5.	U
10061-01-5-----cis-1,3-Dichloropropene	5.	U
79-01-6-----Trichloroethene	5.	U
124-48-1-----Dibromochloromethane	5.	U
79-00-5-----1,1,2-Trichloroethane	5.	U
71-43-2-----Benzene	5.	U
10061-02-6-----trans-1,3-Dichloropropene	5.	U
75-25-2-----Bromoform	5.	U
108-10-1-----4-Methyl-2-Pentanone	11.	U
591-78-6-----2-Hexanone	11.	U
127-18-4-----Tetrachloroethene	5.	U
79-34-5-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3-----Toluene	5.	U
108-90-7-----Chlorobenzene	5.	U
100-41-4-----Ethylbenzene	5.	U
100-42-5-----Styrene	5.	U
156-59-2-----1,2-Dichloroethene-cis	5.	U
106-42-3-----m,p-Xylenes	5.	U
95-47-6-----o-Xylene	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-02(14)

Lab Name: AES, Inc. Lab Code: AES Matrix: (soil/water) SOIL Sample wt/vol: 5.000 (g/mL) G Level: (low/med) LOW % Moisture: not dec. 13. GC Column: RTX502.2 ID: .32 (mm) Soil Extract Volume: _____ (uL)	Contract: Case No.: ET0110 SAS No.: SDG No.: GEP-1 Lab Sample ID: TP-01-02(14) Lab File ID: D0802 Date Received: 06/13/01 Date Analyzed: 06/20/01 Dilution Factor: 1.0 Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11.	U
74-83-9	-----Bromomethane	11.	U
75-01-4	-----Vinyl Chloride	11.	U
75-00-3	-----Chloroethane	11.	U
75-09-2	-----Methylene Chloride	11.	U
67-64-1	-----Acetone	11.	U
75-15-0	-----Carbon Disulfide	6.	U
75-35-4	-----1,1-Dichloroethene	6.	U
75-34-3	-----1,1-Dichloroethane	6.	U
156-60-5	-----1,2-Dichloroethene-trans	6.	U
67-66-3	-----Chloroform	6.	U
107-06-2	-----1,2-Dichloroethane	6.	U
78-93-3	-----2-Butanone	11.	U
71-55-6	-----1,1,1-Trichloroethane	6.	U
56-23-5	-----Carbon Tetrachloride	6.	U
75-27-4	-----Bromodichloromethane	6.	U
78-87-5	-----1,2-Dichloropropane	6.	U
10061-01-5	-----cis-1,3-Dichloropropene	6.	U
79-01-6	-----Trichloroethene	6.	U
124-48-1	-----Dibromochloromethane	6.	U
79-00-5	-----1,1,2-Trichloroethane	6.	U
71-43-2	-----Benzene	6.	U
10061-02-6	-----trans-1,3-Dichloropropene	6.	U
75-25-2	-----Bromoform	6.	U
108-10-1	-----4-Methyl-2-Pentanone	11.	U
591-78-6	-----2-Hexanone	11.	U
127-18-4	-----Tetrachloroethene	6.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	6.	U
108-88-3	-----Toluene	6.	U
108-90-7	-----Chlorobenzene	6.	U
100-41-4	-----Ethylbenzene	6.	U
100-42-5	-----Styrene	6.	U
156-59-2	-----1,2-Dichloroethene-cis	6.	U
106-42-3	-----m,p-Xylenes	6.	U
95-47-6	-----o-Xylene	6.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-03(13)

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) SOIL	SDG No.: GEP-1
Sample wt/vol: 5.000 (g/mL) G	Lab Sample ID: TP-01-03(13)
Level: (low/med) LOW	Lab File ID: D0803
% Moisture: not dec. 4.	Date Received: 06/13/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/20/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

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

74-87-3-----Chloromethane	10.	UJ
74-83-9-----Bromomethane	10.	U
75-01-4-----Vinyl Chloride	10.	U
75-00-3-----Chloroethane	10.	U
75-09-2-----Methylene Chloride	54.	BJT
67-64-1-----Acetone	10.	UJ
75-15-0-----Carbon Disulfide	5.	U
75-35-4-----1,1-Dichloroethene	5.	U
75-34-3-----1,1-Dichloroethane	5.	U
156-60-5-----1,2-Dichloroethene-trans	5.	U
67-66-3-----Chloroform	51.	BJT
107-06-2-----1,2-Dichloroethane	5.	UJ
78-93-3-----2-Butanone	10.	U
71-55-6-----1,1,1-Trichloroethane	5.	U
56-23-5-----Carbon Tetrachloride	5.	U
75-27-4-----Bromodichloromethane	5.	U
78-87-5-----1,2-Dichloropropane	5.	U
10061-01-5-----cis-1,3-Dichloropropene	5.	U
79-01-6-----Trichloroethene	5.	U
124-48-1-----Dibromochloromethane	5.	U
79-00-5-----1,1,2-Trichloroethane	5.	U
71-43-2-----Benzene	5.	U
10061-02-6-----trans-1,3-Dichloropropene	5.	U
75-25-2-----Bromoform	5.	U
108-10-1-----4-Methyl-2-Pentanone	10.	U
591-78-6-----2-Hexanone	10.	U
127-18-4-----Tetrachloroethene	5.	U
79-34-5-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3-----Toluene	5.	U
108-90-7-----Chlorobenzene	5.	U
100-41-4-----Ethylbenzene	5.	U
100-42-5-----Styrene	5.	U
156-59-2-----1,2-Dichloroethene-cis	5.	U
106-42-3-----m,p-Xylenes	5.	U
95-47-6-----o-Xylene	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-04 (13.5)

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) SOIL	SDG No.: GEP-1
Sample wt/vol: 5.000 (g/mL) G	Lab Sample ID: TP-01-04 (13.5)
Level: (low/med) LOW	Lab File ID: D0805
% Moisture: not dec. 6.	Date Received: 06/13/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/20/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
			Q
74-87-3	-----Chloromethane	11.	UJ
74-83-9	-----Bromomethane	11.	U
75-01-4	-----Vinyl Chloride	11.	U
75-00-3	-----Chloroethane	11.	U
75-09-2	-----Methylene Chloride	5.	U
67-64-1	-----Acetone	11.	U
75-15-0	-----Carbon Disulfide	5.	U
75-35-4	-----1,1-Dichloroethene	5.	U
75-34-3	-----1,1-Dichloroethane	5.	U
156-60-5	-----1,2-Dichloroethene-trans	5.	U
67-66-3	-----Chloroform	5.	U
107-06-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	11.	U
71-55-6	-----1,1,1-Trichloroethane	5.	U
56-23-5	-----Carbon Tetrachloride	5.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	5.	U
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
108-10-1	-----4-Methyl-2-Pentanone	11.	U
591-78-6	-----2-Hexanone	11.	U
127-18-4	-----Tetrachloroethene	5.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3	-----Toluene	5.	U
108-90-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-42-5	-----Styrene	5.	U
156-59-2	-----1,2-Dichloroethene-cis	5.	U
106-42-3	-----m,p-Xylenes	5.	U
95-47-6	-----o-Xylene	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-07(6-8)

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) SOIL	SDG No.: GEP-1
Sample wt/vol: 5.000 (g/mL) G	Lab Sample ID: TP-01-07(6-8)
Level: (low/med) LOW	Lab File ID: D0804
% Moisture: not dec. 4.	Date Received: 06/13/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/20/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

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

74-87-3-----	Chloromethane	10.	U
74-83-9-----	Bromomethane	10.	U
75-01-4-----	Vinyl Chloride	10.	U
75-00-3-----	Chloroethane	10.	U
75-09-2-----	Methylene Chloride	5.	U
67-64-1-----	Acetone	10.	U
75-15-0-----	Carbon Disulfide	5.	U
75-35-4-----	1,1-Dichloroethene	5.	U
75-34-3-----	1,1-Dichloroethane	5.	U
156-60-5-----	1,2-Dichloroethene-trans	5.	U
67-66-3-----	Chloroform	5.	U
107-06-2-----	1,2-Dichloroethane	5.	U
78-93-3-----	2-Butanone	10.	U
71-55-6-----	1,1,1-Trichloroethane	5.	U
56-23-5-----	Carbon Tetrachloride	5.	U
75-27-4-----	Bromodichloromethane	5.	U
78-87-5-----	1,2-Dichloropropane	5.	U
10061-01-5-----	cis-1,3-Dichloropropene	5.	U
79-01-6-----	Trichloroethene	5.	U
124-48-1-----	Dibromochloromethane	5.	U
79-00-5-----	1,1,2-Trichloroethane	5.	U
71-43-2-----	Benzene	5.	U
10061-02-6-----	trans-1,3-Dichloropropene	5.	U
75-25-2-----	Bromoform	5.	U
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	U
127-18-4-----	Tetrachloroethene	5.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	U
108-88-3-----	Toluene	5.	U
108-90-7-----	Chlorobenzene	5.	U
100-41-4-----	Ethylbenzene	5.	U
100-42-5-----	Styrene	5.	U
156-59-2-----	1,2-Dichloroethene-cis	5.	U
106-42-3-----	m,p-Xylenes	5.	U
95-47-6-----	o-Xylene	5.	U

Form 1A – SVOC Results
(June 13, 2000 Test Pit Soil Sampling Event)

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-01(5)

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ETH0110 SAS No.:
Matrix: (soil/water) SOIL	SDG No.: GEP-1
Sample wt/vol: 30.0 (g/mL) G	Lab Sample ID: TP-01-01(5)
Level: (low/med) LOW	Lab File ID: A1318
% Moisture: 5. decanted: (Y/N) N	Date Received: 06/13/01
Concentrated Extract Volume: 1000.0 (uL)	Date Extracted: 06/15/01
Injection Volume: 1.0 (uL)	Date Analyzed: 07/10/01
GPC Cleanup: (Y/N) N	Dilution Factor: 1.0
pH: 8.4	

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

108-95-2-----	Phenol	350.	U
111-44-4-----	bis(-2-Chloroethyl) Ether	350.	U
95-57-8-----	2-Chlorophenol	350.	U
541-73-1-----	1,3-Dichlorobenzene	350.	U
106-46-7-----	1,4-Dichlorobenzene	350.	U
95-50-1-----	1,2-Dichlorobenzene	350.	U
95-48-7-----	2-Methylphenol	350.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	350.	U
106-44-5-----	4-Methylphenol	350.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	350.	U
67-72-1-----	Hexachloroethane	350.	U
98-95-3-----	Nitrobenzene	350.	U
78-59-1-----	Isophorone	350.	U
88-75-5-----	2-Nitrophenol	350.	U
105-67-9-----	2,4-Dimethylphenol	350.	U
111-91-1-----	bis(-2-Chloroethoxy) Methane	350.	U
120-83-2-----	2,4-Dichlorophenol	350.	U
120-82-1-----	1,2,4-Trichlorobenzene	350.	U
91-20-3-----	Naphthalene	350.	U
106-47-8-----	4-Chloroaniline	350.	U
87-68-3-----	Hexachlorobutadiene	350.	U
59-50-7-----	4-Chloro-3-methylphenol	350.	U
91-57-6-----	2-Methylnaphthalene	350.	U
77-47-4-----	Hexachlorocyclopentadiene	350.	U
88-06-2-----	2,4,6-Trichlorophenol	350.	U
95-95-4-----	2,4,5-Trichlorophenol	350.	U
91-58-7-----	2-Chloronaphthalene	350.	U
88-74-4-----	2-Nitroaniline	1800.	U
131-11-3-----	Dimethyl Phthalate	350.	U
208-96-8-----	Acenaphthylene	350.	U
606-20-2-----	2,6-Dinitrotoluene	350.	U
99-09-2-----	3-Nitroaniline	1800.	U
83-32-9-----	Acenaphthene	350.	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-01(5)

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ETH0110 SAS No.:
Matrix: (soil/water) SOIL	SDG No.: GEP-1
Sample wt/vol: 30.0 (g/mL) G	Lab Sample ID: TP-01-01(5)
Level: (low/med) LOW	Lab File ID: A1318
% Moisture: 5. decanted: (Y/N) N	Date Received: 06/13/01
Concentrated Extract Volume: 1000.0 (uL)	Date Extracted: 06/15/01
Injection Volume: 1.0 (uL)	Date Analyzed: 07/10/01
GPC Cleanup: (Y/N) N	Dilution Factor: 1.0
pH: 8.4	

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

51-28-5-----2,4-Dinitrophenol	1800.	UJ
100-02-7-----4-Nitrophenol	1800.	U
132-64-9-----Dibenzofuran	350.	U
121-14-2-----2,4-Dinitrotoluene	350.	U
84-66-2-----Diethylphthalate	350.	U
7005-72-3-----4-Chlorophenyl-phenylether	350.	U
86-73-7-----Fluorene	350.	U
100-01-6-----4-Nitroaniline	1800.	U
534-52-1-----4,6-Dinitro-2-methylphenol	1800.	U
86-30-6-----N-Nitrosodiphenylamine	350.	U
101-55-3-----4-Bromophenyl-phenylether	350.	U
118-74-1-----Hexachlorobenzene	350.	U
87-86-5-----Pentachlorophenol	1800.	U
85-01-8-----Phenanthrene	350.	U
120-12-7-----Anthracene	350.	U
86-74-8-----Carbazole	350.	U
84-74-2-----Di-n-Butylphthalate	350.	U
206-44-0-----Fluoranthene	350.	U
129-00-0-----Pyrene	350.	U
85-68-7-----Butylbenzylphthalate	350.	U
91-94-1-----3,3'-Dichlorobenzidine	350.	U
56-55-3-----Benzo(a)Anthracene	350.	U
218-01-9-----Chrysene	350.	U
117-81-7-----Bis(2-Ethylhexyl)Phthalate	350.	U
117-84-0-----Di-n-octyl phthalate	350.	U
205-99-2-----Benzo(b)fluoranthene	350.	U
207-08-9-----Benzo(k)Fluoranthene	350.	U
50-32-8-----Benzo(a)Pyrene	350.	U
193-39-5-----Indeno(1,2,3-cd)Pyrene	350.	U
53-70-3-----Dibenzo(a,h)Anthracene	350.	U
191-24-2-----Benzo(g,h,i)Perylene	350.	U

(1) - Cannot be separated from diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-02(14)

Lab Name: AES, Inc.	Contract:	SDG No.: GEP-1
Lab Code: AES	Case No.: ETH0110 SAS No.:	Lab Sample ID: TP-01-02(14)
Matrix: (soil/water) SOIL		Lab File ID: A1319
Sample wt/vol: 30.0 (g/mL) G		Date Received: 06/13/01
Level: (low/med) LOW		Date Extracted: 06/15/01
% Moisture: 13. decanted: (Y/N) N		Date Analyzed: 07/10/01
Concentrated Extract Volume: 1000.0 (uL)		Dilution Factor: 1.0
Injection Volume: 1.0 (uL)		
GPC Cleanup: (Y/N) N	pH: 7.7	

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

108-95-2-----	Phenol	380.	U
111-44-4-----	bis(-2-Chloroethyl) Ether	380.	U
95-57-8-----	2-Chlorophenol	380.	U
541-73-1-----	1,3-Dichlorobenzene	380.	U
106-46-7-----	1,4-Dichlorobenzene	380.	U
95-50-1-----	1,2-Dichlorobenzene	380.	U
95-48-7-----	2-Methylphenol	380.	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	380.	U
106-44-5-----	4-Methylphenol	380.	U
621-64-7-----	N-Nitroso-Di-n-propylamine	380.	U
67-72-1-----	Hexachloroethane	380.	U
98-95-3-----	Nitrobenzene	380.	U
78-59-1-----	Isophorone	380.	U
88-75-5-----	2-Nitrophenol	380.	U
105-67-9-----	2,4-Dimethylphenol	380.	U
111-91-1-----	bis(-2-Chloroethoxy) Methane	380.	U
120-83-2-----	2,4-Dichlorophenol	380.	U
120-82-1-----	1,2,4-Trichlorobenzene	380.	U
91-20-3-----	Naphthalene	380.	U
106-47-8-----	4-Chloroaniline	380.	U
87-68-3-----	Hexachlorobutadiene	380.	U
59-50-7-----	4-Chloro-3-methylphenol	380.	U
91-57-6-----	2-Methylnaphthalene	380.	U
77-47-4-----	Hexachlorocyclopentadiene	380.	U
88-06-2-----	2,4,6-Trichlorophenol	380.	U
95-95-4-----	2,4,5-Trichlorophenol	380.	U
91-58-7-----	2-Chloronaphthalene	380.	U
88-74-4-----	2-Nitroaniline	1900.	U
131-11-3-----	Dimethyl Phthalate	380.	U
208-96-8-----	Acenaphthylene	380.	U
606-20-2-----	2,6-Dinitrotoluene	380.	U
99-09-2-----	3-Nitroaniline	1900.	U
83-32-9-----	Acenaphthene	380.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-02(14)

Lab Name: AES, Inc.	Contract:	SDG No.: GEP-1
Lab Code: AES	Case No.: ETH0110 SAS No.:	Lab Sample ID: TP-01-02(14)
Matrix: (soil/water) SOIL		Lab File ID: A1319
Sample wt/vol: 30.0 (g/mL) G		Date Received: 06/13/01
Level: (low/med) LOW		Date Extracted: 06/15/01
% Moisture: 13. decanted: (Y/N) N		Date Analyzed: 07/10/01
Concentrated Extract Volume: 1000.0 (uL)		Dilution Factor: 1.0
Injection Volume: 1.0 (uL)		
GPC Cleanup: (Y/N) N	pH: 7.7	

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

51-28-5-----	2,4-Dinitrophenol	1900.	U
100-02-7-----	4-Nitrophenol	1900.	U
132-64-9-----	Dibenzofuran	380.	U
121-14-2-----	2,4-Dinitrotoluene	380.	U
84-66-2-----	Diethylphthalate	380.	U
7005-72-3-----	4-Chlorophenyl-phenylether	380.	U
86-73-7-----	Fluorene	380.	U
100-01-6-----	4-Nitroaniline	1900.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1900.	U
86-30-6-----	N-Nitrosodiphenylamine	380.	U
101-55-3-----	4-Bromophenyl-phenylether	380.	U
118-74-1-----	Hexachlorobenzene	380.	U
87-86-5-----	Pentachlorophenol	1900.	U
85-01-8-----	Phenanthrene	380.	U
120-12-7-----	Anthracene	380.	U
86-74-8-----	Carbazole	380.	U
84-74-2-----	Di-n-Butylphthalate	380.	U
206-44-0-----	Fluoranthene	380.	U
129-00-0-----	Pyrene	380.	U
85-68-7-----	Butylbenzylphthalate	380.	U
91-94-1-----	3,3'-Dichlorobenzidine	380.	U
56-55-3-----	Benzo(a)Anthracene	380.	U
218-01-9-----	Chrysene	380.	U
117-81-7-----	Bis(2-Ethylhexyl) Phthalate	380.	U
117-84-0-----	Di-n-octyl phthalate	380.	U
205-99-2-----	Benzo(b)fluoranthene	380.	U
207-08-9-----	Benzo(k) Fluoranthene	380.	U
50-32-8-----	Benzo(a) Pyrene	380.	U
193-39-5-----	Indeno(1,2,3-cd) Pyrene	380.	U
53-70-3-----	Dibenzo(a,h) Anthracene	380.	U
191-24-2-----	Benzo(g,h,i) Perylene	380.	U

(1) - Cannot be separated from diphenylamine

FORM I SV-2

3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-03 (13)

Lab Name: AES, Inc.	Contract:	SDG No.: GEP-1
Lab Code: AES	Case No.: ETH0110 SAS No.:	
Matrix: (soil/water) SOIL	Lab Sample ID: TP-01-03 (13)	
Sample wt/vol: 30.0 (g/mL) G	Lab File ID: A1320	
Level: (low/med) LOW	Date Received: 06/13/01	
% Moisture: 4. decanted: (Y/N) N	Date Extracted: 06/15/01	
Concentrated Extract Volume: 1000.0 (uL)	Date Analyzed: 07/10/01	
Injection Volume: 1.0 (uL)	Dilution Factor: 1.0	
GPC Cleanup: (Y/N) N	pH: 8.2	

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

108-95-2-----Phenol_____	350.	U
111-44-4-----bis(-2-Chloroethyl) Ether_____	350.	U
95-57-8-----2-Chlorophenol_____	350.	U
541-73-1-----1,3-Dichlorobenzene _____	350.	U
106-46-7-----1,4-Dichlorobenzene _____	350.	U
95-50-1-----1,2-Dichlorobenzene _____	350.	U
95-48-7-----2-Methylphenol_____	350.	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	350.	U
106-44-5-----4-Methylphenol_____	350.	U
621-64-7-----N-Nitroso-Di-n-propylamine_____	350.	U
67-72-1-----Hexachloroethane_____	350.	U
98-95-3-----Nitrobenzene_____	350.	U
78-59-1-----Isophorone_____	350.	U
88-75-5-----2-Nitrophenol _____	350.	U
105-67-9-----2,4-Dimethylphenol_____	350.	U
111-91-1-----bis(-2-Chloroethoxy) Methane	350.	U
120-83-2-----2,4-Dichlorophenol_____	350.	U
120-82-1-----1,2,4-Trichlorobenzene_____	350.	U
91-20-3-----Naphthalene _____	350.	U
106-47-8-----4-Chloroaniline _____	350.	U
87-68-3-----Hexachlorobutadiene _____	350.	U
59-50-7-----4-Chloro-3-methylphenol _____	350.	U
91-57-6-----2-Methylnaphthalene _____	350.	U
77-47-4-----Hexachlorocyclopentadiene _____	350.	U
88-06-2-----2,4,6-Trichlorophenol _____	350.	U
95-95-4-----2,4,5-Trichlorophenol _____	350.	U
91-58-7-----2-Chloronaphthalene _____	350.	U
88-74-4-----2-Nitroaniline_____	1700.	U
131-11-3-----Dimethyl Phthalate_____	350.	U
208-96-8-----Acenaphthylene_____	350.	U
606-20-2-----2,6-Dinitrotoluene_____	350.	U
99-09-2-----3-Nitroaniline_____	1700.	U
83-32-9-----Acenaphthene_____	350.	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-03 (13)

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ETH0110 SAS No.:
Matrix: (soil/water) SOIL	SDG No.: GEP-1
Sample wt/vol: 30.0 (g/mL) G	Lab Sample ID: TP-01-03 (13)
Level: (low/med) LOW	Lab File ID: A1320
% Moisture: 4. decanted: (Y/N) N	Date Received: 06/13/01
Concentrated Extract Volume: 1000.0 (uL)	Date Extracted: 06/15/01
Injection Volume: 1.0 (uL)	Date Analyzed: 07/10/01
GPC Cleanup: (Y/N) N	Dilution Factor: 1.0
pH: 8.2	

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

51-28-5-----2,4-Dinitrophenol	1700.	U
100-02-7-----4-Nitrophenol	1700.	U
132-64-9-----Dibenzofuran	350.	U
121-14-2-----2,4-Dinitrotoluene	350.	U
84-66-2-----Diethylphthalate	350.	U
7005-72-3-----4-Chlorophenyl-phenylether	350.	U
86-73-7-----Fluorene	350.	U
100-01-6-----4-Nitroaniline	1700.	U
534-52-1-----4,6-Dinitro-2-methylphenol	1700.	U
86-30-6-----N-Nitrosodiphenylamine	350.	U
101-55-3-----4-Bromophenyl-phenylether	350.	U
118-74-1-----Hexachlorobenzene	350.	U
87-86-5-----Pentachlorophenol	1700.	U
85-01-8-----Phenanthrene	350.	U
120-12-7-----Anthracene	350.	U
86-74-8-----Carbazole	350.	U
84-74-2-----Di-n-Butylphthalate	350.	U
206-44-0-----Fluoranthene	350.	U
129-00-0-----Pyrene	350.	U
85-68-7-----Butylbenzylphthalate	350.	U
91-94-1-----3,3'-Dichlorobenzidine	350.	U
56-55-3-----Benzo (a) Anthracene	350.	U
218-01-9-----Chrysene	350.	U
117-81-7-----Bis (2-Ethylhexyl) Phthalate	1200.	U
117-84-0-----Di-n-octyl phthalate	350.	U
205-99-2-----Benzo (b) fluoranthene	350.	U
207-08-9-----Benzo (k) Fluoranthene	350.	U
50-32-8-----Benzo (a) Pyrene	350.	U
193-39-5-----Indeno (1,2,3-cd) Pyrene	350.	U
53-70-3-----Dibenzo (a,h) Anthracene	350.	U
191-24-2-----Benzo (g,h,i) Perylene	350.	U

(1) - Cannot be separated from diphenylamine

FORM I SV-2

3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-04(13.5)

Lab Name: AES, Inc.	Contract:	SDG No.: GEP-1
Lab Code: AES	Case No.: ETH0110 SAS No.:	
Matrix: (soil/water) SOIL		Lab Sample ID: TP-01-04(13.5)
Sample wt/vol: 30.0 (g/mL) G		Lab File ID: A1322
Level: (low/med) LOW		Date Received: 06/13/01
% Moisture: 6. decanted: (Y/N) N		Date Extracted: 06/15/01
Concentrated Extract Volume: 1000.0 (uL)		Date Analyzed: 07/11/01
Injection Volume: 1.0 (uL)		Dilution Factor: 1.0
GPC Cleanup: (Y/N) N	pH: 8.4	

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

108-95-2-----Phenol_____	350.	UJ
111-44-4-----bis(-2-Chloroethyl) Ether_____	350.	U
95-57-8-----2-Chlorophenol_____	350.	U
541-73-1-----1,3-Dichlorobenzene _____	350.	U
106-46-7-----1,4-Dichlorobenzene _____	350.	U
95-50-1-----1,2-Dichlorobenzene _____	350.	U
95-48-7-----2-Methylphenol_____	350.	U
108-60-1-----2,2'-oxybis(1-Chloropropane)_____	350.	U
106-44-5-----4-Methylphenol_____	350.	U
621-64-7-----N-Nitroso-Di-n-propylamine_____	350.	U
67-72-1-----Hexachloroethane_____	350.	U
98-95-3-----Nitrobenzene_____	350.	U
78-59-1-----Isophorone_____	350.	U
88-75-5-----2-Nitrophenol_____	350.	U
105-67-9-----2,4-Dimethylphenol_____	350.	U
111-91-1-----bis(-2-Chloroethoxy)Methane_____	350.	U
120-83-2-----2,4-Dichlorophenol_____	350.	U
120-82-1-----1,2,4-Trichlorobenzene_____	350.	U
91-20-3-----Naphthalene_____	350.	U
106-47-8-----4-Chloroaniline_____	350.	U
87-68-3-----Hexachlorobutadiene_____	350.	U
59-50-7-----4-Chloro-3-methylphenol_____	350.	U
91-57-6-----2-Methylnaphthalene_____	350.	U
77-47-4-----Hexachlorocyclopentadiene_____	350.	U
88-06-2-----2,4,6-Trichlorophenol_____	350.	U
95-95-4-----2,4,5-Trichlorophenol_____	350.	U
91-58-7-----2-Chloronaphthalene_____	350.	U
88-74-4-----2-Nitroaniline_____	1800.	U
131-11-3-----Dimethyl Phthalate_____	350.	U
208-96-8-----Acenaphthylene_____	350.	U
606-20-2-----2,6-Dinitrotoluene_____	350.	U
99-09-2-----3-Nitroaniline_____	1800.	U
83-32-9-----Acenaphthene_____	350.	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-04 (13.5)

Lab Name: AES, Inc.	Contract:	SDG No.: GEP-1
Lab Code: AES	Case No.: ETH0110 SAS No.:	
Matrix: (soil/water) SOIL		Lab Sample ID: TP-01-04 (13.5)
Sample wt/vol: 30.0 (g/mL) G		Lab File ID: A1322
Level: (low/med) LOW		Date Received: 06/13/01
% Moisture: 6. decanted: (Y/N) N		Date Extracted: 06/15/01
Concentrated Extract Volume: 1000.0 (uL)		Date Analyzed: 07/11/01
Injection Volume: 1.0 (uL)		Dilution Factor: 1.0
GPC Cleanup: (Y/N) N	pH: 8.4	

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

51-28-5-----	2,4-Dinitrophenol	1800.	UJ
100-02-7-----	4-Nitrophenol	1800.	UK
132-64-9-----	Dibenzofuran	350.	UJ
121-14-2-----	2,4-Dinitrotoluene	350.	U
84-66-2-----	Diethylphthalate	350.	U
7005-72-3-----	4-Chlorophenyl-phenylether	350.	U
86-73-7-----	Fluorene	350.	U
100-01-6-----	4-Nitroaniline	1800.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1800.	U
86-30-6-----	N-Nitrosodiphenylamine	350.	U
101-55-3-----	4-Bromophenyl-phenylether	350.	U
118-74-1-----	Hexachlorobenzene	350.	U
87-86-5-----	Pentachlorophenol	1800.	U
85-01-8-----	Phenanthrene	350.	U
120-12-7-----	Anthracene	350.	U
86-74-8-----	Carbazole	350.	U
84-74-2-----	Di-n-Butylphthalate	350.	U
206-44-0-----	Fluoranthene	350.	U
129-00-0-----	Pyrene	350.	U
85-68-7-----	Butylbenzylphthalate	350.	U
91-94-1-----	3,3'-Dichlorobenzidine	350.	U
56-55-3-----	Benzo (a) Anthracene	350.	U
218-01-9-----	Chrysene	350.	U
117-81-7-----	Bis(2-Ethylhexyl) Phthalate	350.	U
117-84-0-----	Di-n-octyl phthalate	350.	U
205-99-2-----	Benzo (b) fluoranthene	350.	U
207-08-9-----	Benzo (k) Fluoranthene	350.	U
50-32-8-----	Benzo (a) Pyrene	350.	U
193-39-5-----	Indeno (1,2,3-cd) Pyrene	350.	U
53-70-3-----	Dibenzo (a,h) Anthracene	350.	U
191-24-2-----	Benzo (g,h,i) Perylene	350.	U

(1) - Cannot be separated from diphenylamine

FORM I SV-2

3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-07(6-8)

Lab Name: AES, Inc.	Contract:	SDG No.: GEP-1
Lab Code: AES	Case No.: ETH0110 SAS No.:	
Matrix: (soil/water) SOIL	Lab Sample ID: TP-01-07(6-8)	
Sample wt/vol: 30.0 (g/mL) G	Lab File ID: A1321	
Level: (low/med) LOW	Date Received: 06/13/01	
% Moisture: 4. decanted: (Y/N) N	Date Extracted: 06/15/01	
Concentrated Extract Volume: 1000.0 (uL)	Date Analyzed: 07/11/01	
Injection Volume: 1.0 (uL)	Dilution Factor: 1.0	
GPC Cleanup: (Y/N) N	pH: 8.3	

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

108-95-2-----Phenol	350.	U
111-44-4-----bis(-2-Chloroethyl) Ether	350.	U
95-57-8-----2-Chlorophenol	350.	U
541-73-1-----1,3-Dichlorobenzene	350.	U
106-46-7-----1,4-Dichlorobenzene	350.	U
95-50-1-----1,2-Dichlorobenzene	350.	U
95-48-7-----2-Methylphenol	350.	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	350.	U
106-44-5-----4-Methylphenol	350.	U
621-64-7-----N-Nitroso-Di-n-propylamine	350.	U
67-72-1-----Hexachloroethane	350.	U
98-95-3-----Nitrobenzene	350.	U
78-59-1-----Isophorone	350.	U
88-75-5-----2-Nitrophenol	350.	U
105-67-9-----2,4-Dimethylphenol	350.	U
111-91-1-----bis(-2-Chloroethoxy)Methane	350.	U
120-83-2-----2,4-Dichlorophenol	350.	U
120-82-1-----1,2,4-Trichlorobenzene	350.	U
91-20-3-----Naphthalene	350.	U
106-47-8-----4-Chloroaniline	350.	U
87-68-3-----Hexachlorobutadiene	350.	U
59-50-7-----4-Chloro-3-methylphenol	350.	U
91-57-6-----2-Methylnaphthalene	350.	U
77-47-4-----Hexachlorocyclopentadiene	350.	U
88-06-2-----2,4,6-Trichlorophenol	350.	U
95-95-4-----2,4,5-Trichlorophenol	350.	U
91-58-7-----2-Chloronaphthalene	350.	U
88-74-4-----2-Nitroaniline	1700.	U
131-11-3-----Dimethyl Phthalate	350.	U
208-96-8-----Acenaphthylene	350.	U
606-20-2-----2,6-Dinitrotoluene	350.	U
99-09-2-----3-Nitroaniline	1700.	U
83-32-9-----Acenaphthene	350.	U

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-07(6-8)

Lab Name: AES, Inc.	Contract:	SDG No.: GEP-1
Lab Code: AES	Case No.: ETH0110	SAS No.:
Matrix: (soil/water) SOIL		Lab Sample ID: TP-01-07(6-8)
Sample wt/vol: 30.0 (g/mL) G		Lab File ID: A1321
Level: (low/med) LOW		Date Received: 06/13/01
% Moisture: 4. decanted: (Y/N) N		Date Extracted: 06/15/01
Concentrated Extract Volume: 1000.0 (uL)		Date Analyzed: 07/11/01
Injection Volume: 1.0 (uL)		Dilution Factor: 1.0
GPC Cleanup: (Y/N) N	pH: 8.3	

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

51-28-5-----2,4-Dinitrophenol	1700.	U
100-02-7-----4-Nitrophenol	1700.	U
132-64-9-----Dibenzofuran	350.	U
121-14-2-----2,4-Dinitrotoluene	350.	U
84-66-2-----Diethylphthalate	350.	U
7005-72-3-----4-Chlorophenyl-phenylether	350.	U
86-73-7-----Fluorene	350.	U
100-01-6-----4-Nitroaniline	1700.	U
534-52-1-----4,6-Dinitro-2-methylphenol	1700.	U
86-30-6-----N-Nitrosodiphenylamine	350.	U
101-55-3-----4-Bromophenyl-phenylether	350.	U
118-74-1-----Hexachlorobenzene	350.	U
87-86-5-----Pentachlorophenol	1700.	U
85-01-8-----Phenanthrene	350.	U
120-12-7-----Anthracene	350.	U
86-74-8-----Carbazole	350.	U
84-74-2-----Di-n-Butylphthalate	350.	U
206-44-0-----Fluoranthene	350.	U
129-00-0-----Pyrene	350.	U
85-68-7-----Butylbenzylphthalate	350.	U
91-94-1-----3,3'-Dichlorobenzidine	350.	U
56-55-3-----Benzo(a)Anthracene	350.	U
218-01-9-----Chrysene	350.	U
117-81-7-----Bis(2-Ethylhexyl)Phthalate	350.	U
117-84-0-----Di-n-octyl phthalate	350.	U
205-99-2-----Benzo(b)fluoranthene	350.	U
207-08-9-----Benzo(k)Fluoranthene	350.	U
50-32-8-----Benzo(a)Pyrene	350.	U
193-39-5-----Indeno(1,2,3-cd)Pyrene	350.	U
53-70-3-----Dibenzo(a,h)Anthracene	350.	U
191-24-2-----Benzo(g,h,i)Perylene	350.	U

(1) - Cannot be separated from diphenylamine

FORM I SV-2

3/90

Form 1A – Pesticide/PCB Results
(June 13, 2000 Test Pit Soil Sampling Event)

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-01

Lab Name: AES

Contract: ETH

Lab Code: AES

Case No. 0110

SAS No.:

SDG No.: GEP-1

Matrix: (soil/water) SOIL

Lab Sample ID: TP-01-01

Sample wt/vol: 30.0 (g/ml) G

Lab File ID:

% Moisture: 5 decanted: (Y/N) N

Date Received: 6/13/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 6/13/01

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 6/27/01

Injection Volume: 1.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 8.4

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	0.043	JP
319-85-7-----	beta-BHC	0.11	JP
319-86-8-----	delta-BHC	1.8	UJ
58-89-9-----	gamma-BHC (Lindane)	1.8	U
76-44-8-----	Heptachlor	1.8	U
309-00-2-----	Aldrin	0.058	JP
1024-57-3-----	Heptachlor epoxide	1.8	UJ
959-98-8-----	Endosulfan I	1.8	U
60-57-1-----	Dieldrin	3.5	U
72-55-9-----	4,4'-DDE	3.5	U
72-20-8-----	Endrin	3.5	U
33213-65-9----	Endosulfan II	3.5	U
72-54-8-----	4,4'-DDD	3.5	U
1031-07-8-----	Endosulfan sulfate	3.5	U
50-29-3-----	4,4'-DDT	3.5	U
72-43-5-----	Methoxychlor	18.	U
53494-70-5----	Endrin ketone	3.5	U
7421-36-3-----	Endrin aldehyde	3.5	U
5103-71-9-----	alpha-Chlordane	1.8	U
5103-74-2-----	gamma-Chlordane	1.8	U
8001-35-2-----	Toxaphene	180.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-03

Lab Name: AES

Contract: ETH

Lab Code: AES

Case No. 0110

SAS No.:

SDG No.: GEP-1

Matrix: (soil/water) SOIL

Lab Sample ID: TP-01-03

Sample wt/vol: 30.0 (g/ml) G

Lab File ID:

% Moisture: 4 decanted: (Y/N) N

Date Received: 6/13/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 6/13/01

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 6/27/01

Injection Volume: 1.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 8.2

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	1.7	U
319-85-7-----	beta-BHC	1.7	U
319-86-8-----	delta-BHC	1.7	U
58-89-9-----	gamma-BHC (Lindane)	1.7	U
76-44-8-----	Heptachlor	1.7	U
309-00-2-----	Aldrin	1.7	U
1024-57-3-----	Heptachlor epoxide	1.7	U
959-98-8-----	Endosulfan I	1.7	U
60-57-1-----	Dieldrin	3.5	U
72-55-9-----	4,4'-DDE	3.5	U
72-20-8-----	Endrin	3.5	U
33213-65-9----	Endosulfan II	3.5	U
72-54-8-----	4,4'-DDD	3.5	U
1031-07-8-----	Endosulfan sulfate	3.5	U
50-29-3-----	4,4'-DDT	3.5	U
72-43-5-----	Methoxychlor	17.	U
53494-70-5----	Endrin ketone	3.5	U
7421-36-3-----	Endrin aldehyde	3.5	U
5103-71-9-----	alpha-Chlordane	1.7	U
5103-74-2-----	gamma-Chlordane	1.7	U
8001-35-2-----	Toxaphene	170.	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-07

Lab Name: AES

Contract: ETH

Lab Code: AES

Case No. 0110

SAS No.:

SDG No.: GEP-1

Matrix: (soil/water) SOIL

Lab Sample ID: TP-01-07

Sample wt/vol: 30.0 (g/ml) G

Lab File ID:

% Moisture: 6 decanted: (Y/N) N

Date Received: 6/13/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 6/13/01

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 6/27/01

Injection Volume: 1.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 8.3

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.5	U
7421-36-3	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180.	U

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-01(5')

Lab Name: AES, INC.

Contract:

Lab Code: AES

Case No.: ETH0110

SAS No.:

SDG No.: GEP-1

Matrix: (soil/water) SOIL

Lab Sample ID: TP-01-01(5')

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 010613 W01

Level: (low/med) LOW

Date Received: 6/13/01

% Moisture: not dec. 5. dec. _____

Date Extracted: 6/13/01

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 6/19/01

GPC Cleanup: (Y/N) N pH: 8.4

Dilution Factor: 1.00

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

12674-11-2-----Arochlor-1016	35.	U
11104-28-2-----Arochlor-1221	35.	U
11141-16-5-----Arochlor-1232	35.	U
53469-21-9-----Arochlor-1242	35.	U
12672-29-6-----Arochlor-1248	35.	U
11097-69-1-----Arochlor-1254	35.	U
11096-82-5-----Arochlor-1260	12.	J

FORM I PEST

1/87 Rev.

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-03(13')

Lab Name: AES, INC.

Contract:

Lab Code: AES

Case No.: ETH0110

SAS No.:

SDG No.: GEP-1

Matrix: (soil/water) SOIL

Lab Sample ID: TP-01-03(13')

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 010613 W03

Level: (low/med) LOW

Date Received: 6/13/01

% Moisture: not dec. 4. dec. _____

Date Extracted: 6/13/01

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 6/19/01

GPC Cleanup: (Y/N) N pH: 8.2

Dilution Factor: 1.00

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

12674-11-2-----	Arochlor-1016	35.	U
11104-28-2-----	Arochlor-1221	35.	U
11141-16-5-----	Arochlor-1232	35.	U
53469-21-9-----	Arochlor-1242	35.	U
12672-29-6-----	Arochlor-1248	35.	U
11097-69-1-----	Arochlor-1254	35.	U
11096-82-5-----	Arochlor-1260	35.	U

FORM I PEST

1/87 Rev.

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-07(6-8')

Lab Name: AES, INC.

Contract:

Lab Code: AES

Case No.: ETH0110

SAS No.:

SDG No.: GEP-1

Matrix: (soil/water) SOIL

Lab Sample ID: TP-01-07(6-8')

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 010613 W04

Level: (low/med) LOW

Date Received: 6/13/01

% Moisture: not dec. 6. dec. _____

Date Extracted: 6/13/01

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 6/19/01

GPC Cleanup: (Y/N) N pH: 8.3

Dilution Factor: 1.00

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

12674-11-2-----Arochlor-1016	35.	U
11104-28-2-----Arochlor-1221	35.	U
11141-16-5-----Arochlor-1232	35.	U
53469-21-9-----Arochlor-1242	35.	U
12672-29-6-----Arochlor-1248	35.	U
11097-69-1-----Arochlor-1254	35.	U
11096-82-5-----Arochlor-1260	5.2	J

FORM I PEST

1/87 Rev.

Form 1A –Metals Results
(June 13, 2000 Test Pit Soil Sampling Event)

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-01(5)

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES Case No.: ETH_0110 SAS No.: _____ SDG No.: GEP-1_

Matrix (soil/water): SOIL Lab Sample ID: TP-01-01(5)

Level (low/med): LOW Date Received: 06/13/01

% Solids: 95.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2860			P
7440-36-0	Antimony	0.72	U	~~K~~ N	P
7440-38-2	Arsenic	0.82	U		P
7440-39-3	Barium	14.4	B		P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium	0.042	U		P
7440-70-2	Calcium	68500			P
7440-47-3	Chromium	6.4			P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	8.6			P
7439-89-6	Iron	8400	U	~~E~~	P
7439-92-1	Lead	1.6	U	~~E~~	P
7439-95-4	Magnesium	5760	U	~~E~~	P
7439-96-5	Manganese	269			P
7439-97-6	Mercury	0.068	B	~~E~~	AV
7440-02-0	Nickel	5.9	B	~~E~~	P
7440-09-7	Potassium	296	B	~~E~~	P
7782-49-2	Selenium	0.36	U	~~N~~	P
7440-22-4	Silver	0.58	B		P
7440-23-5	Sodium	70.7	B		P
7440-28-0	Thallium	0.48	U		P
7440-62-2	Vanadium	5.3	B		P
7440-66-6	Zinc	23.3	U	~~E~~	P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-03(13)

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES Case No.: ETH_0110 SAS No.: _____ SDG No.: GEP-1_

Matrix (soil/water): SOIL Lab Sample ID: TP-01-03(13)

Level (low/med): LOW Date Received: 06/13/01

% Solids: 96.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3330	-	-	P
7440-36-0	Antimony	0.71	U	K N	P
7440-38-2	Arsenic	0.81	U	-	P
7440-39-3	Barium	15.1	B	-	P
7440-41-7	Beryllium	0.15	B	-	P
7440-43-9	Cadmium	0.042	U	-	P
7440-70-2	Calcium	81100	J	-	P
7440-47-3	Chromium	6.5	-	-	P
7440-48-4	Cobalt	3.3	B	-	P
7440-50-8	Copper	8.8	-	-	P
7439-89-6	Iron	9690	J	E	P
7439-92-1	Lead	2.2	J	*	P
7439-95-4	Magnesium	6770	J	E	P
7439-96-5	Manganese	234	-	-	P
7439-97-6	Mercury	0.090	B	U	AV
7440-02-0	Nickel	6.6	B	T E	P
7440-09-7	Potassium	339	B	J E	P
7782-49-2	Selenium	0.35	U	J N	P
7440-22-4	Silver	0.58	B	-	P
7440-23-5	Sodium	88.7	B	-	P
7440-28-0	Thallium	0.63	B	U	P
7440-62-2	Vanadium	7.0	B	-	P
7440-66-6	Zinc	29.4	J	E	P
	Cyanide		-	-	NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-01-07 (6-8)

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES Case No.: ETH_0110 SAS No.: _____ SDG No.: GEP-1_

Matrix (soil/water): SOIL Lab Sample ID: TP-01-07_(6-8)

Level (low/med): LOW Date Received: 06/13/01

% Solids: 96.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2930			P
7440-36-0	Antimony	0.71	U	~~K~~	P
7440-38-2	Arsenic	0.81	U		P
7440-39-3	Barium	18.3	B		P
7440-41-7	Beryllium	0.13	B		P
7440-43-9	Cadmium	0.042	U		P
7440-70-2	Calcium	60500			P
7440-47-3	Chromium	6.1			P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	15.1			P
7439-89-6	Iron	8270	I	E	P
7439-92-1	Lead	2.4	I	~~E~~	P
7439-95-4	Magnesium	6540	J	E	P
7439-96-5	Manganese	259	L		P
7439-97-6	Mercury	0.074	B	~~H~~	AV
7440-02-0	Nickel	6.0	B	~~E~~	P
7440-09-7	Potassium	272	B	~~E~~	P
7782-49-2	Selenium	0.35	U	~~J~~	P
7440-22-4	Silver	0.58	B		P
7440-23-5	Sodium	63.8	B		P
7440-28-0	Thallium	0.76	B	~~H~~	P
7440-62-2	Vanadium	5.9	B		P
7440-66-6	Zinc	23.4	J	E	P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

APPENDIX D

Laboratory Analytical Reports with DUSR (August 10, 2001 Test Pit Sampling Event (Soil))

Organic Data Usability Summary Report
Glenville Energy Plant, LLC
Adirondack Environmental Services, Inc
SDG# TP-50810

Analytical results for three (3) soil samples from the above referenced site were reviewed to evaluate the data quality. Data were assessed in accordance with United States Environmental Protection Agency (USEPA) Methods 8260 for Volatile compounds, 8270 for Semi-Volatile compounds, 8081 for Pesticides, and 8082 for Polychlorinated Biphenyl compounds (PCBs). Also used was the United States Environmental Protection Agency (USEPA) document **USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review** (February 1994), and the USEPA Region II document **CLP Organics Data Review and Preliminary Review** (SOP No. HW-6, Revision No. 8, January, 1992), where applicable. This validation pertains to the following samples collected by Earth Tech personnel on August 10, 2001 and received at the lab on the same day.

TP-50810

TP-90810

TP-60810

The following items/criteria applicable to the samples listed above were reviewed:

- Deliverable Requirements
- Case Narrative
- Holding Times and Sample Preparation
- GC/MS Instrument Performance Check
- Initial and Continuing Calibration Data
- Method and Field Blank Summary and Data
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicates
- Matrix Spike Blank
- Internal Standard Areas and Retention Times
- Target Compound Identification/Quantitation
- Quantitation Reports and Mass Spectral Data

The above items were in compliance with the USEPA Methods, USEPA QA/QC criteria with the exception of the items discussed in the following text. The data have been reviewed according to the above procedures and qualified as described below.

Method 8260 – Volatile Organic Compounds:

- The table below lists the continuing calibration compounds that exhibited greater than 25% difference between the initial and continuing calibration responses, and the associated samples. Per USEPA validation guidelines all sample results associated with out-of-control calibration data are considered estimated with positive results flagged “J” and non-detect results flagged “UJ”.

Calibration	Compound	%D	Associated Samples
CC: 8/13/01 1031	2-butanone	30.8	TP-90810
CC: 8/14/01 1524	Chloromethane	-72.6	TP-60810
	Acetone	56.9	
	2-butanone	42.8	
	2-hexanone	38.3	
CC: 8/15/01 1554	acetone	-51.4	TP-50810

Method 8270 – Semi-Volatile Compounds

- In the Matrix Spike analysis of sample TP-60810 pyrene exhibited a percent recovery of 294%, above the method QC limits of 35%-142%. In the Matrix Spike Duplicate recovery pyrene exhibited a percent recovery of 32%, below the method QC limits of 35%-142%, and relative percent difference of 161%, above the method QC limit of 36%. Also, in the Matrix Spike Duplicate acenaphthene exhibited a relative percent difference of 65%, above the Method QC limit of 19%. Per USEPA validation criteria, no qualification is based on matrix spike and matrix spike duplicate data alone.
- The table below lists the initial calibration compounds that exhibited greater than the method QC limit of 20.5% relative standard deviation (RSD) between the relative response factors, and the associated samples. Per USEPA validation guidelines all sample results associated with out-of-control calibration data are considered estimated with positive results flagged “J” and non-detect results flagged “UJ” at the validator’s discretion.

Calibration	Compound	% RSD	Associated Samples
IC: 8/9/01	4-chloroaniline	40.7	All Samples
	3-nitroaniline	43.8	
	4-nitroaniline	68.3	
	carbazole	49.0	

- The table below lists the continuing calibration compounds that exhibited greater than the method QC limit of 25% difference between the initial and continuing calibration responses, and the associated samples. Per USEPA validation guidelines all sample results associated with out-of-control calibration data are considered estimated with positive results flagged “J” and non-detect results flagged “UJ”.

Calibration	Compound	%D	Associated Samples
CC: 8/20/01 1143	4-methylphenol	-28.3	All Samples
	4-chloroaniline	-33.1	
	3-nitroaniline	40.9	
	butylbenzylphthalate	-28.6	
	bis(2-ethylhexyl)phthalate	-25.5	
	benzo(g,h,i)perylene	-31.3	

Method 8081 – Pesticides

- All surrogate compounds for sample TP-60810 diluted out. The dilution factor used in the analysis of the sample was 1:20,000. Due to the high dilution factor no qualification is made to the data.
- The table below lists the compounds in the Initial Calibration that exhibited a percent relative standard deviation (%RSD) greater than the USEPA Region II QC limit of 20% between the calibration factors for the standard concentrations. Per USEPA validation guidelines, compounds exhibiting a %RSD outside of the QC limits are considered estimated in all the sample results. Positive sample results are flagged “J”, and non-detect sample results are flagged “UJ”.

Instrument-Column	Calibration	Compound	%RSD	Associated Samples
Varian I - DB608	IC: 8/6/01	Dieldrin	20.9	All Samples
		methoxychlor	22.8	

- The table below lists the samples exhibiting a percent difference between the analytical results for the two GC columns used in the analysis that was greater than the USEPA Region II QC limit of 25 percent. Per USEPA Region II validation guidelines, sample results that exhibit a percent difference between the two GC columns greater than 25 percent, but less than 90 percent are flagged with a “J”, and samples with percent differences of greater than 90 percent are rejected

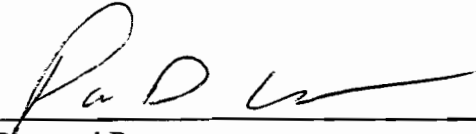
Sample ID	Compound	% Difference
TP - 50810	Delta BHC	28.6
	Aldrin	746.2
	4,4'-DDD	204.3
	4,4'-DDT	145.5
TP - 60810	4,4'-DDE	25.0
	4,4'-DDD	376.2
TP-90810	Gamma BHC	55.1
	Aldrin	135.0
	Heptachlor epoxide	9587.0
	Endosulfan I	987.0
	Endrin	150.0
	Endosulfan sulfate	592.3
	Endrin ketone	70.2
	Endrin aldehyde	2025.0
	Gamma chlordane	538.3

Method 8082 – Polychlorinated Biphenyl Compounds (PCBs)

- All items were in compliance with the Method and USEPA QA/QC criteria.

Summary:

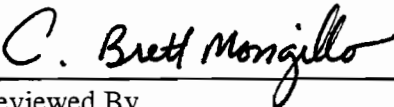
In summary, based on 381 sample data points, 62 of which were qualified as estimated ("J"), and 11 qualified as unusable, and since estimated data are fully compliant and usable, the usability of this data package is 97%.



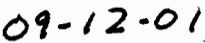
Prepared By
Paul Wheeler
Environmental Scientist



Date



Reviewed By
C. Brett Mongillo
Manager Chemistry & Sampling Services



Date

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-50810

Name: AES, Inc. Contract:
Code: AES Case No.: ETH0118 SAS No.:
SDG No.: TP-50810
Matrix: (soil/water) SOIL Lab Sample ID: TP-50810
Sample wt/vol: 5.000 (g/mL) G Lab File ID: D1471
Rel: (low/med) LOW Date Received: 08/10/01
Moisture: not dec. 9. Date Analyzed: 08/15/01
Column: RTX502.2 ID: .32 (mm) Dilution Factor: 1.0
El Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11.	U
74-83-9	Bromomethane	11.	U
75-01-4	Vinyl Chloride	11.	U
75-00-3	Chloroethane	11.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	11.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
156-60-5	1,2-Dichloroethene-trans	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	11.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	11.	U
591-78-6	2-Hexanone	11.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
156-59-2	1,2-Dichloroethene-cis	5.	U
106-42-3	m,p-Xylenes	5.	U
95-47-6	o-Xylene	5.	U

9/16/01
Pw

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-60810

Name: AES, Inc. Contract: SDG No.: TP-50810
Code: AES Case No.: ETH0118 SAS No.: Lab Sample ID: TP-60810
Matrix: (soil/water) SOIL Lab File ID: D1460
Sample wt/vol: 5.000 (g/mL) G Date Received: 08/10/01
Level: (low/med) LOW Date Analyzed: 08/14/01
Moisture: not dec. 11. Dilution Factor: 1.0
Column: RTX502.2 ID: .32 (mm) Soil Aliquot Volume: (uL)
1 Extract Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----Chloromethane	11.	U
74-83-9	-----Bromomethane	11.	U
75-01-4	-----Vinyl Chloride	11.	U
75-00-3	-----Chloroethane	11.	U
75-09-2	-----Methylene Chloride	6.	U
67-64-1	-----Acetone	11.	U
75-15-0	-----Carbon Disulfide	6.	U
75-35-4	-----1,1-Dichloroethene	6.	U
75-34-3	-----1,1-Dichloroethane	6.	U
156-60-5	-----1,2-Dichloroethene-trans	6.	U
67-66-3	-----Chloroform	6.	U
107-06-2	-----1,2-Dichloroethane	6.	U
78-93-3	-----2-Butanone	11.	U
71-55-6	-----1,1,1-Trichloroethane	6.	U
56-23-5	-----Carbon Tetrachloride	6.	U
75-27-4	-----Bromodichloromethane	6.	U
78-87-5	-----1,2-Dichloropropane	6.	U
10061-01-5	-----cis-1,3-Dichloropropene	6.	U
79-01-6	-----Trichloroethene	6.	U
124-48-1	-----Dibromochloromethane	6.	U
79-00-5	-----1,1,2-Trichloroethane	6.	U
71-43-2	-----Benzene	6.	U
10061-02-6	-----trans-1,3-Dichloropropene	6.	U
75-25-2	-----Bromoform	6.	U
108-10-1	-----4-Methyl-2-Pentanone	11.	U
591-78-6	-----2-Hexanone	11.	U
127-18-4	-----Tetrachloroethene	6.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	6.	U
108-88-3	-----Toluene	6.	U
108-90-7	-----Chlorobenzene	6.	U
100-41-4	-----Ethylbenzene	6.	U
100-42-5	-----Styrene	6.	U
156-59-2	-----1,2-Dichloroethene-cis	6.	U
106-42-3	-----m,p-Xylenes	6.	U
95-47-6	-----o-Xylene	6.	U

2/10/01
PW

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-90810

Name: AES, Inc. Contract: SDG No.: TP-50810
 Code: AES Case No.: ETH0118 SAS No.: Lab Sample ID: TP-90810
 Matrix: (soil/water) SOIL Lab File ID: D1446
 Sample wt/vol: 5.000 (g/mL) G Date Received: 08/10/01
 Level: (low/med) LOW Date Analyzed: 08/13/01
 Moisture: not dec. 4. Dilution Factor: 1.0
 Column: RTX502.2 ID: .32 (mm) Soil Aliquot Volume: (uL)
 Inj. Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
156-60-5	1,2-Dichloroethene-trans	5.	U
67-66-3	Chloroform	5.	U
107-06-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-Pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
156-59-2	1,2-Dichloroethene-cis	5.	U
106-42-3	m,p-Xylenes	5.	U
95-47-6	o-Xylene	5.	U

FORM I VOA

paw
 9/10/01
 3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP50810

Name: AES, Inc.		Contract:	
Code: AES	Case No.: ETH0118	SAS No.:	SDG No.: TP50810
Matrix: (soil/water) SOIL		Lab Sample ID: TP50810	
Sample wt/vol: 30.0 (g/mL) G		Lab File ID: B1529	
Rel: (low/med) LOW		Date Received: 08/10/01	
Moisture: 9. decanted: (Y/N) N		Date Extracted: 08/13/01	
Concentrated Extract Volume: 1000.0 (uL)		Date Analyzed: 08/20/01	
Injection Volume: 1.0 (uL)		Dilution Factor: 1.0	
Cleanup: (Y/N) N	pH: 7.4		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370.	U
111-44-4	bis(2-Chloroethyl)ether	370.	U
95-57-8	2-Chlorophenol	370.	U
541-73-1	1,3-Dichlorobenzene	370.	U
106-46-7	1,4-Dichlorobenzene	370.	U
95-50-1	1,2-Dichlorobenzene	370.	U
95-48-7	2-Methylphenol	370.	U
108-60-1	bis(2-chloroisopropyl)ether	370.	U
106-44-5	4-Methylphenol	370.	U
621-64-7	n-Nitroso-di-n-propylamine	370.	U
67-72-1	Hexachloroethane	370.	U
98-95-3	Nitrobenzene	370.	U
78-59-1	Isophorone	370.	U
88-75-5	2-Nitrophenol	370.	U
105-67-9	2,4-Dimethylphenol	370.	U
111-91-1	bis(2-Chloroethoxy)methane	370.	U
120-83-2	2,4-Dichlorophenol	370.	U
120-82-1	1,2,4-Trichlorobenzene	370.	U
91-20-3	Naphthalene	270.	U
106-47-8	4-Chloroaniline	370.	U
87-68-3	Hexachlorobutadiene	370.	U
59-50-7	4-Chloro-3-methylphenol	370.	U
91-57-6	2-Methylnaphthalene	950.	U
77-47-4	Hexachlorocyclopentadiene	370.	U
88-06-2	2,4,6-Trichlorophenol	370.	U
95-95-4	2,4,5-Trichlorophenol	370.	U
91-58-7	2-Chloronaphthalene	370.	U
88-74-4	2-Nitroaniline	1800.	U
131-11-3	Dimethylphthalate	370.	U
208-96-8	Acenaphthylene	370.	U
606-20-2	2,6-Dinitrotoluene	370.	U
99-09-2	3-Nitroaniline	1800.	U
83-32-9	Acenaphthene	370.	U

FORM I SV-1

3/90 *PDw* 9/20/01

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP50810

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: ETH0118 SAS No.: SDG No.: TP50810
Matrix: (soil/water) SOIL Lab Sample ID: TP50810
Sample wt/vol: 30.0 (g/mL) G Lab File ID: B1529
Level: (low/med) LOW Date Received: 08/10/01
Moisture: 9. decanted: (Y/N) N Date Extracted: 08/13/01
Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 08/20/01
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
Cleanup: (Y/N) N pH: 7.4

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

51-28-5-----	2,4-Dinitrophenol	1800.	U
100-02-7-----	4-Nitrophenol	1800.	U
132-64-9-----	Dibenzofuran	44.	J
121-14-2-----	2,4-Dinitrotoluene	370.	U
84-66-2-----	Diethylphthalate	370.	U
7005-72-3-----	4-Chlorophenyl-phenylether	370.	U
86-73-7-----	Fluorene	370.	U
100-01-6-----	4-Nitroaniline	1800.	UJ
534-52-1-----	4,6-Dinitro-2-methylphenol	1800.	U
86-30-6-----	n-Nitrosodiphenylamine	370.	U
101-55-3-----	4-Bromophenyl-phenylether	370.	U
118-74-1-----	Hexachlorobenzene	370.	U
87-86-5-----	Pentachlorophenol	1800.	U
85-01-8-----	Phenanthrene	97.	J
120-12-7-----	Anthracene	370.	U
86-74-8-----	Carbazole	370.	UJ
84-74-2-----	Di-n-butylphthalate	370.	U
206-44-0-----	Fluoranthene	38.	J
129-00-0-----	Pyrene	37.	J
85-68-7-----	Butylbenzylphthalate	370.	UJ
91-94-1-----	3,3'-Dichlorobenzidine	730.	U
56-55-3-----	Benzo(a)anthracene	370.	U
218-01-9-----	Chrysene	370.	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	370.	UJ
117-84-0-----	Di-n-octylphthalate	370.	U
205-99-2-----	Benzo(b)fluoranthene	370.	U
207-08-9-----	Benzo(k)fluoranthene	370.	U
50-32-8-----	Benzo(a)pyrene	370.	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	370.	U
53-70-3-----	Dibenzo(a,h)anthracene	370.	U
191-24-2-----	Benzo(g,h,i)perylene	370.	UJ

(1) - Cannot be separated from diphenylamine

FORM I SV-2

3/90

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP60810

Lab Name: AES, Inc.	Contract:	SDG No.: TP50810
Lab Code: AES	Case No.: ETH0118	SAS No.:
Matrix: (soil/water) SOIL		Lab Sample ID: TP60810
Sample wt/vol: 30.0 (g/mL) G		Lab File ID: B1531
Level: (low/med) LOW		Date Received: 08/10/01
Moisture: 11. decanted: (Y/N) N		Date Extracted: 08/13/01
Concentrated Extract Volume: 1000.0 (uL)		Date Analyzed: 08/20/01
Injection Volume: 1.0 (uL)		Dilution Factor: 4.0
GPC Cleanup: (Y/N) N	pH: 7.4	

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

108-95-2-----Phenol	1500.	U
111-44-4-----bis(2-Chloroethyl)ether	1500.	U
95-57-8-----2-Chlorophenol	1500.	U
541-73-1-----1,3-Dichlorobenzene	1500.	U
106-46-7-----1,4-Dichlorobenzene	1500.	U
95-50-1-----1,2-Dichlorobenzene	1500.	U
95-48-7-----2-Methylphenol	1500.	U
108-60-1-----bis(2-chloroisopropyl)ether	1500.	U
106-44-5-----4-Methylphenol	1500.	U
621-64-7-----n-Nitroso-di-n-propylamine	1500.	U
67-72-1-----Hexachloroethane	1500.	U
98-95-3-----Nitrobenzene	1500.	U
78-59-1-----Isophorone	1500.	U
88-75-5-----2-Nitrophenol	1500.	U
105-67-9-----2,4-Dimethylphenol	1500.	U
111-91-1-----bis(2-Chloroethoxy)methane	1500.	U
120-83-2-----2,4-Dichlorophenol	1500.	U
120-82-1-----1,2,4-Trichlorobenzene	1500.	U
91-20-3-----Naphthalene	850.	J
106-47-8-----4-Chloroaniline	1500.	U
87-68-3-----Hexachlorobutadiene	1500.	U
59-50-7-----4-Chloro-3-methylphenol	1500.	U
91-57-6-----2-Methylnaphthalene	370.	J
77-47-4-----Hexachlorocyclopentadiene	1500.	U
88-06-2-----2,4,6-Trichlorophenol	1500.	U
95-95-4-----2,4,5-Trichlorophenol	1500.	U
91-58-7-----2-Chloronaphthalene	1500.	U
88-74-4-----2-Nitroaniline	7500.	U
131-11-3-----Dimethylphthalate	1500.	U
208-96-8-----Acenaphthylene	1500.	U
606-20-2-----2,6-Dinitrotoluene	1500.	U
99-09-2-----3-Nitroaniline	7500.	U
83-32-9-----Acenaphthene	970.	J

FORM I SV-1

3/90 9/10/01

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP60810

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: ETH0118 SAS No.: SDG No.: TP50810
Matrix: (soil/water) SOIL Lab Sample ID: TP60810
Sample wt/vol: 30.0 (g/mL) G Lab File ID: B1531
Level: (low/med) LOW Date Received: 08/10/01
Moisture: 11. decanted: (Y/N) N Date Extracted: 08/13/01
Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 08/20/01
Injection Volume: 1.0 (uL) Dilution Factor: 4.0
EPC Cleanup: (Y/N) N pH: 7.4

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

51-28-5-----	2,4-Dinitrophenol	7500.	U
100-02-7-----	4-Nitrophenol	7500.	U
132-64-9-----	Dibenzofuran	560.	J
121-14-2-----	2,4-Dinitrotoluene	1500.	U
84-66-2-----	Diethylphthalate	1500.	U
7005-72-3-----	4-Chlorophenyl-phenylether	1500.	U
86-73-7-----	Fluorene	980.	J
100-01-6-----	4-Nitroaniline	7500.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	7500.	U
86-30-6-----	n-Nitrosodiphenylamine	1500.	U
101-55-3-----	4-Bromophenyl-phenylether	1500.	U
118-74-1-----	Hexachlorobenzene	1500.	U
87-86-5-----	Pentachlorophenol	7500.	U
85-01-8-----	Phenanthrene	7200.	
120-12-7-----	Anthracene	3800.	
86-74-8-----	Carbazole	4000.	U
84-74-2-----	Di-n-butylphthalate	1500.	U
206-44-0-----	Fluoranthene	10000.	
129-00-0-----	Pyrene	7500.	
85-68-7-----	Butylbenzylphthalate	1500.	U
91-94-1-----	3,3'-Dichlorobenzidine	3000.	U
56-55-3-----	Benzo(a)anthracene	4600.	
218-01-9-----	Chrysene	4400.	
117-81-7-----	bis(2-Ethylhexyl)phthalate	2200.	U
117-84-0-----	Di-n-octylphthalate	1500.	U
205-99-2-----	Benzo(b)fluoranthene	5500.	
207-08-9-----	Benzo(k)fluoranthene	4200.	
50-32-8-----	Benzo(a)pyrene	5100.	
193-39-5-----	Indeno(1,2,3-cd)pyrene	3500.	
53-70-3-----	Dibenzo(a,h)anthracene	420.	
191-24-2-----	Benzo(g,h,i)perylene	3000.	U

(1) - Cannot be separated from diphenylamine

FORM I SV-2

3/90

PDW
9/10/01

021

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP90810

Lab Name: AES, Inc.	Contract:	SDG No.: TP50810
Lab Code: AES	Case No.: ETH0118	SAS No.:
Matrix: (soil/water) SOIL		Lab Sample ID: TP90810
Sample wt/vol: 30.0 (g/mL) G		Lab File ID: B1530
Level: (low/med) LOW		Date Received: 08/10/01
% Moisture: 4. decanted: (Y/N) N		Date Extracted: 08/13/01
Concentrated Extract Volume: 1000.0 (uL)		Date Analyzed: 08/20/01
Injection Volume: 1.0 (uL)		Dilution Factor: 1.0
GPC Cleanup: (Y/N) N	pH: 8.4	

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

108-95-2-----Phenol	350.	U
111-44-4-----bis(2-Chloroethyl)ether	350.	U
95-57-8-----2-Chlorophenol	350.	U
541-73-1-----1,3-Dichlorobenzene	350.	U
106-46-7-----1,4-Dichlorobenzene	350.	U
95-50-1-----1,2-Dichlorobenzene	350.	U
95-48-7-----2-Methylphenol	350.	U
108-60-1-----bis(2-chloroisopropyl)ether	350.	U
106-44-5-----4-Methylphenol	350.	U J
621-64-7-----n-Nitroso-di-n-propylamine	350.	U
67-72-1-----Hexachloroethane	350.	U
98-95-3-----Nitrobenzene	350.	U
78-59-1-----Isophorone	350.	U
88-75-5-----2-Nitrophenol	350.	U
105-67-9-----2,4-Dimethylphenol	350.	U
111-91-1-----bis(2-Chloroethoxy)methane	350.	U
120-83-2-----2,4-Dichlorophenol	350.	U
120-82-1-----1,2,4-Trichlorobenzene	350.	U
91-20-3-----Naphthalene	350.	U
106-47-8-----4-Chloroaniline	350.	U J
87-68-3-----Hexachlorobutadiene	350.	U
59-50-7-----4-Chloro-3-methylphenol	350.	U
91-57-6-----2-Methylnaphthalene	350.	U
77-47-4-----Hexachlorocyclopentadiene	350.	U
88-06-2-----2,4,6-Trichlorophenol	350.	U
95-95-4-----2,4,5-Trichlorophenol	350.	U
91-58-7-----2-Chloronaphthalene	350.	U
88-74-4-----2-Nitroaniline	1700.	U
131-11-3-----Dimethylphthalate	350.	U
208-96-8-----Acenaphthylene	350.	U
606-20-2-----2,6-Dinitrotoluene	350.	U
99-09-2-----3-Nitroaniline	1700.	U J
83-32-9-----Acenaphthene	350.	U

pow
8/10/01

FORM I SV-1

3/90

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP90810

Lab Name: AES, Inc. Contract:
Lab Code: AES Case No.: ETH0118 SAS No.: SDG No.: TP50810
Matrix: (soil/water) SOIL Lab Sample ID: TP90810
Sample wt/vol: 30.0 (g/mL) G Lab File ID: B1530
Level: (low/med) LOW Date Received: 08/10/01
% Moisture: 4. decanted: (Y/N) N Date Extracted: 08/13/01
Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 08/20/01
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5-----	2,4-Dinitrophenol	1700.	U
100-02-7-----	4-Nitrophenol	1700.	U
132-64-9-----	Dibenzofuran	350.	U
121-14-2-----	2,4-Dinitrotoluene	350.	U
84-66-2-----	Diethylphthalate	350.	U
7005-72-3-----	4-Chlorophenyl-phenylether	350.	U
86-73-7-----	Fluorene	350.	U
100-01-6-----	4-Nitroaniline	1700.	U J
534-52-1-----	4,6-Dinitro-2-methylphenol	1700.	U
86-30-6-----	n-Nitrosodiphenylamine	350.	U
101-55-3-----	4-Bromophenyl-phenylether	350.	U
118-74-1-----	Hexachlorobenzene	350.	U
87-86-5-----	Pentachlorophenol	1700.	U
85-01-8-----	Phenanthrene	180.	J
120-12-7-----	Anthracene	72.	J
86-74-8-----	Carbazole	72.	J
84-74-2-----	Di-n-butylphthalate	350.	U
206-44-0-----	Fluoranthene	390.	
129-00-0-----	Pyrene	290.	J
85-68-7-----	Butylbenzylphthalate	350.	U J
91-94-1-----	3,3'-Dichlorobenzidine	690.	U
56-55-3-----	Benzo(a)anthracene	190.	J
218-01-9-----	Chrysene	200.	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	350.	U J
117-84-0-----	Di-n-octylphthalate	350.	U
205-99-2-----	Benzo(b)fluoranthene	200.	J
207-08-9-----	Benzo(k)fluoranthene	190.	J
50-32-8-----	Benzo(a)pyrene	200.	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	130.	J
53-70-3-----	Dibenzo(a,h)anthracene	350.	U
191-24-2-----	Benzo(g,h,i)perylene	85.	J

(1) - Cannot be separated from diphenylamine

FORM I SV-2

3/90

Pow
9/10/01

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-50810

Lab Name: AES

Contract: ETH

Lab Code: AES

Case No. 0118

SAS No.:

SDG No.: 50810

Matrix: (soil/water) SOIL

Lab Sample ID: TP-50810

Sample wt/vol: 30.0 (g/ml) G

Lab File ID:

% Moisture: 9 decanted: (Y/N) N

Date Received: 8/10/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 8/15/01

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 8/17/01

Injection Volume: 1.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.4

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6-----	alpha-BHC	1.8	U
319-85-7-----	beta-BHC	1.8	U
319-86-8-----	delta-BHC	0.21	J
58-89-9-----	gamma-BHC (Lindane)	1.8	U
76-44-8-----	Heptachlor	1.8	U
309-00-2-----	Aldrin	0.026	JP
1024-57-3-----	Heptachlor epoxide	1.8	U
959-98-8-----	Endosulfan I	1.8	U
60-57-1-----	Dieldrin	3.7	UJ
72-55-9-----	4,4'-DDE	3.7	U
72-20-8-----	Endrin	3.7	U
33213-65-9----	Endosulfan II	3.7	U
72-54-8-----	4,4'-DDD	0.092	JP
1031-07-8-----	Endosulfan sulfate	3.7	U
50-29-3-----	4,4'-DDT	0.33	JP
72-43-5-----	Methoxychlor	18.	UJ
53494-70-5----	Endrin ketone	3.7	U
7421-36-3-----	Endrin aldehyde	0.33	J
5103-71-9-----	alpha-Chlordane	1.8	U
5103-74-2-----	gamma-Chlordane	1.8	U
8001-35-2-----	Toxaphene	180.	U

PDW
9/10/01

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-60810D20K

Lab Name: AES

Contract: ETH

Lab Code: AES

Case No. 0118

SAS No.:

SDG No.: 50810

Matrix: (soil/water) SOIL

Lab Sample ID: TP-60810D20K

Sample wt/vol: 30.0 (g/ml) G

Lab File ID:

% Moisture: 11 decanted: (Y/N) N

Date Received: 8/10/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 8/15/01

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 8/17/01

Injection Volume: 1.5 (uL)

Dilution Factor: 20000.0

GPC Cleanup: (Y/N) N

pH: 7.4

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	37000.	U
319-85-7	beta-BHC	37000.	U
319-86-8	delta-BHC	37000.	U
58-89-9	gamma-BHC (Lindane)	37000.	U
76-44-8	Heptachlor	37000.	U
309-00-2	Aldrin	37000.	U
1024-57-3	Heptachlor epoxide	37000.	U
959-98-8	Endosulfan I	37000.	U
60-57-1	Dieldrin	75000.	UJ
72-55-9	4,4'-DDE	12000.	UJ
72-20-8	Endrin	75000.	U
33213-65-9	Endosulfan II	75000.	U
72-54-8	4,4'-DDD	63000.	JP
1031-07-8	Endosulfan sulfate	75000.	U
50-29-3	4,4'-DDT	880000.	
72-43-5	Methoxychlor	370000.	UJ
53494-70-5	Endrin ketone	75000.	U
7421-36-3	Endrin aldehyde	75000.	U
5103-71-9	alpha-Chlordane	37000.	U
5103-74-2	gamma-Chlordane	37000.	U
8001-35-2	Toxaphene	3700000.	U

Paw
9/10/01

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-90810

Lab Name: AES

Contract: ETH

Lab Code: AES

Case No. 0118

SAS No.:

SDG No.: 50810

Matrix: (soil/water) SOIL

Lab Sample ID: TP-90810

Sample wt/vol: 30.0 (g/ml) G

Lab File ID:

% Moisture: 4 decanted: (Y/N) N

Date Received: 8/10/01

Extraction: (SepF/Cont/Sonc) SONC

Date Extracted: 8/15/01

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 8/17/01

Injection Volume: 1.5 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 8.4

Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	0.049	J
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	0.20	JP
1024-57-3	Heptachlor epoxide	0.032	JP
959-98-8	Endosulfan I	0.46	JP
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	35.	
72-20-8	Endrin	0.52	JP
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	2.3	J
1031-07-8	Endosulfan sulfate	0.78	JP
50-29-3	4,4'-DDT	28.	
72-43-5	Methoxychlor	17.	U
53494-70-5	Endrin ketone	0.94	J
7421-36-3	Endrin aldehyde	0.80	JP
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	0.047	JP
8001-35-2	Toxaphene	170.	U

pow
9/10/01

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-50810

Lab Name: AES, INC.

Contract:

Lab Code: AES

Case No.: ETH0118

SAS No.:

SDG No.: 50810

Matrix: (soil/water) SOIL

Lab Sample ID: TP-50810

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 010810 AQ04

Level: (low/med) LOW

Date Received: 8/10/01

% Moisture: not dec. 9. dec. _____

Date Extracted: 8/15/01

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 8/16/01

GPC Cleanup: (Y/N) N pH: 7.4

Dilution Factor: 1.00

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

12674-11-2-----Arochlor-1016	37.	U
11104-28-2-----Arochlor-1221	37.	U
11141-16-5-----Arochlor-1232	37.	U
53469-21-9-----Arochlor-1242	37.	U
12672-29-6-----Arochlor-1248	37.	U
11097-69-1-----Arochlor-1254	37.	U
11096-82-5-----Arochlor-1260	37.	U

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9/6/01

FORM I PEST

1/87 Rev.

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-60810

Lab Name: AES, INC.

Contract:

Lab Code: AES

Case No.: ETH0118

SAS No.:

SDG No.: 50810

Matrix: (soil/water) SOIL

Lab Sample ID: TP-60810

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 010810 AQ06

Level: (low/med) LOW

Date Received: 8/10/01

% Moisture: not dec. 11. dec. _____

Date Extracted: 8/15/01

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 8/16/01

GPC Cleanup: (Y/N) N pH: 7.4

Dilution Factor: 10.00

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

12674-11-2-----	Arochlor-1016	370.	U
11104-28-2-----	Arochlor-1221	370.	U
11141-16-5-----	Arochlor-1232	370.	U
53469-21-9-----	Arochlor-1242	370.	U
12672-29-6-----	Arochlor-1248	370.	U
11097-69-1-----	Arochlor-1254	370.	U
11096-82-5-----	Arochlor-1260	370.	U

370.	U
370.	U
370.	U
370.	U
370.	U
370.	U
370.	U

PDW
9/16/01

FORM I PEST

1/87 Rev.

1D
PCB ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-90810

Lab Name: AES, INC.

Contract:

Lab Code: AES

Case No.: ETH0118

SAS No.:

SDG No.: 50810

Matrix: (soil/water) SOIL

Lab Sample ID: TP-90810

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 010810 AQ05

Level: (low/med) LOW

Date Received: 8/10/01

% Moisture: not dec. 4. dec. _____

Date Extracted: 8/15/01

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 8/16/01

GPC Cleanup: (Y/N) N pH: 8.1

Dilution Factor: 1.00

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

12674-11-2-----Arochlor-1016	35.	U
11104-28-2-----Arochlor-1221	35.	U
11141-16-5-----Arochlor-1232	35.	U
53469-21-9-----Arochlor-1242	35.	U
12672-29-6-----Arochlor-1248	35.	U
11097-69-1-----Arochlor-1254	35.	U
11096-82-5-----Arochlor-1260	16.	J

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8/16/01

FORM I PEST

1/87 Rev.

Inorganic Data Usability Summary Report
(August 10, 2001 Test Pit Soil Sampling Event)

Inorganic Data Usability Summary Report
Glenville Energy Plant, LLC
Adirondack Environmental Services, Inc
SDG# TP-50810

Analytical results for three (3) soil samples from the above referenced site were reviewed to evaluate the data quality. Data were assessed in accordance with the United States Environmental Protection Agency (USEPA) Methods 6010 for Metals, the United States Environmental Protection Agency (USEPA) document **USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review** (February 1994) and the USEPA Region II document **CLP Inorganics Data Review and Preliminary Review** (SOP No. HW-6, Revision No. 8, January 1992), where applicable. This data usability summary report (DUSR) pertains to the following samples analyzed by NYSDEC ASP Methods 6010/7471. Earth Tech personnel collected these samples on August 10, 2001 and were received at the lab the same day.

TP-50810

TP-90810

TP-60810

The following items/criteria applicable to the samples listed above were reviewed:

- Deliverable Requirements
- Case Narrative
- Holding Times and Sample Preparation
- Instrument Calibration
- Method and Field Blanks
- ICP Interference Check Sample
- Laboratory Control Sample
- Duplicate Sample Analysis
- Laboratory Spike Sample Analysis
- ICP Serial Dilution Analysis

The above items were in compliance with the SW-846 Methods laboratory QC criteria and USEPA QA criteria with the exception of the items discussed in the following text. The data have been validated according to the above procedures and qualified as described.

- The table below presents the contract required detection limit standards (CRDL) that exhibited percent recoveries outside USEPA Region II QC limits of 80% to 120%, and the associated samples. Per USEPA Region II validation guidelines, all sample results that are between $\pm 2 \times \text{CRDL}$ that are associated with standard recoveries between 50% and 79% or between 121% and 150% are considered estimated and are flagged "J" or "UJ". All affected results associated with standard recoveries less than 50% are rejected. All affected positive sample result associated with standard recoveries greater than 150% are also rejected.

CRDL Standard	Recovery	Associated Samples
Selenium-Initial	74.5	All Samples
Selenium-Final	76.2	All Samples

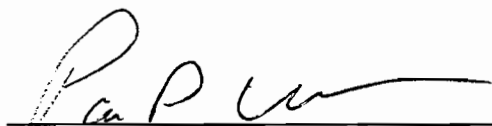
- The table below presents the laboratory spike analysis of sample 18(5-6) that exhibited recoveries outside of the method QC limits of 75% to 125%. Per USEPA validation guidelines, all positive sample results associated with spike recoveries less than 30% are considered estimated and flagged "J", all non-detect results are rejected ("R"). All sample results associated with spike recoveries between 30 and 75% are considered estimated. All positive sample results associated with spike recoveries greater than 125% are considered estimated and flagged "J" and non-detect sample results are acceptable and need no qualification.

Analyte	%Recovery
Selenium	27.0
Lead	140.2

- In the post digest spike selenium continued to have a low percent recovery (72.4%). Lead had a high percent recovery of 151.0%. No qualification is made to the data based on the post digest spike.

Summary

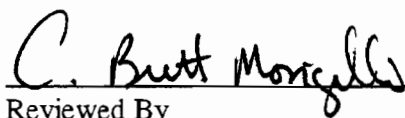
In summary, based on 24 sample data points, 3 of which were qualified as estimated ("J"), and 3 qualified as unusable ("R"), and since estimated data are fully compliant and usable, the usability of this data package is 87.5%.



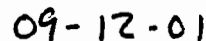
Prepared By
Paul Wheeler
Environmental Scientist



Date



Reviewed By
C. Brett Mongillo
Manager Chemistry & Sampling Services



Date

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-50810

Lab Name: ADIRONDACK_ENVIRONMENTAL

Contract: _____

Lab Code: AES

Case No.: ETH_0118

SAS No.: _____

SDG No.: TP-50810

Matrix (soil/water): SOIL

Lab Sample ID: TP-50810

Level (low/med): LOW

Date Received: 08/10/01

% Solids: 91.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.86	U		P
7440-39-3	Barium	59.1			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.044	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	10.8	J	N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.18			AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.37	U	N	P
7440-22-4	Silver	0.80	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

ppw
9/11/01

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-60810

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES Case No.: ETH_0118 SAS No.: _____ SDG No.: TP-50810

Matrix (soil/water): SOIL Lab Sample ID: TP-60810

Level (low/med): LOW Date Received: 08/10/01

Solids: 89.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	103			P
7440-39-3	Barium	41.8	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	3.5			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	34.7			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	355	J	N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.23			AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.38	U	N	P
7440-22-4	Silver	0.56	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

TP-90810

Lab Name: ADIRONDACK_ENVIRONMENTAL Contract: _____

Lab Code: AES Case No.: ETH_0118 SAS No.: _____ SDG No.: TP-50810

Matrix (soil/water): SOIL Lab Sample ID: TP-90810

Level (low/med): LOW Date Received: 08/10/01

± Solids: 96.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	0.81	U		P
7440-39-3	Barium	56.8			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.092	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	25.7	J	N	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.19			AV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.35	U	N	P
7440-22-4	Silver	1.5	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

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9/11/01

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Asbestos Analytical Results (Soil)



Experience is the solution

314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

LABORATORY REPORT

for

Earth Tech
12 Metro Park Road
Albany, NY 12205

Attention: Mark Williams

PJ:37089.99

Report date: 09/05/01
Number of samples analyzed: 6
AES Project ID: 010810AQ
Invoice #: 231308

ELAP ID#: 10709

AIHA ID#: 100307
Page

1

SEP 05 '04 14:49

F-435 T-458 P-002

Albany NY



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CLIENT: Earth Tech

CLIENT'S SAMPLE ID: A-1

AES sample #: 010810AQ01

Date Sampled: 08/10/01

Date sample received: 08/10/01

Samples taken by: T.R.H.

Location: Supplemental In

MATRIX: Soil

grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTES</u>	<u>REF</u>	<u>TEST DATE</u>
Chrysotile	EPA-600/M482020	ND	%	KLB		08/23/01
Amosite	EPA-600/M482020	ND	%	KLB		08/23/01
Crocidolite	EPA-600/M482020	ND	%	KLB		08/23/01
Anthophyllite	EPA-600/M482020	ND	%	KLB		08/23/01
Tremolite	EPA-600/M482020	ND	%	KLB		08/23/01
Actinolite	EPA-600/M482020	ND	%	KLB		08/23/01
Synthetic Fibers	EPA-600/M482020	<1	%	KLB		08/23/01
Fibrous Glass	EPA-600/M482020	<1	%	KLB		08/23/01
Other Fiber	EPA-600/M482020	<1	%	KLB		08/23/01



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CLIENT: Earth Tech
CLIENT'S SAMPLE ID: A-2
AES sample #: 010810AQ02

Samples taken by: T.R.H.
MATRIX: Soil

Date Sampled: 08/10/01
Date sample received: 08/10/01
Location: Supplemental In
grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chrysotile	EPA-600/M482020	ND	%	KLB	08/23/01
Amosite	EPA-600/M482020	ND	%	KLB	08/23/01
Crocidolite	EPA-600/M482020	ND	%	KLB	08/23/01
Anthophyllite	EPA-600/M482020	ND	%	KLB	08/23/01
Tremolite	EPA-600/M482020	ND	%	KLB	08/23/01
Actinolite	EPA-600/M482020	ND	%	KLB	08/23/01
Synthetic Fibers	EPA-600/M482020	<1	%	KLB	08/23/01
Fibrous Glass	EPA-600/M482020	1-5	%	KLB	08/23/01
Other Fiber	EPA-600/M482020	1-5	%	KLB	08/23/01



Experience is the solution

314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech
CLIENT'S SAMPLE ID: A-3
AES sample #: 010810AQ03

Samples taken by: T.R.H.
MATRIX: Soil

Date Sampled: 08/10/01
Date sample received: 08/10/01
Location: Supplemental In grab

<u>PARAMETER PERFORMED</u>	<u>METHOD</u>	<u>RESULT</u>	<u>UNITS</u>	<u>NOTEBOOK REF</u>	<u>TEST DATE</u>
Chrysotile	EPA-600/M482020	ND	%	KLB	08/23/01
Amosite	EPA-600/M482020	ND	%	KLB	08/23/01
Crocidolite	EPA-600/M482020	ND	%	KLB	08/23/01
Anthophyllite	EPA-600/M482020	ND	%	KLB	08/23/01
Tremolite	EPA-600/M482020	ND	%	KLB	08/23/01
Actinolite	EPA-600/M482020	ND	%	KLB	08/23/01
Synthetic Fibers	EPA-600/M482020	<1	%	KLB	08/23/01
Fibrous Glass	EPA-600/M482020	<1	%	KLB	08/23/01
Other Fiber	EPA-600/M482020	<1	%	KLB	08/23/01

APPENDIX E

**Field Gas Chromatograph Results – June 13-14, 2001
Groundwater Sampling**

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 3 Baseline - 105 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm
1	TRICHLOROETHENE	416.281	13065	1729214	1:56	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1, Run #16

Mon Jun 25 12:39:18 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

b

MIN. AREA - 9999

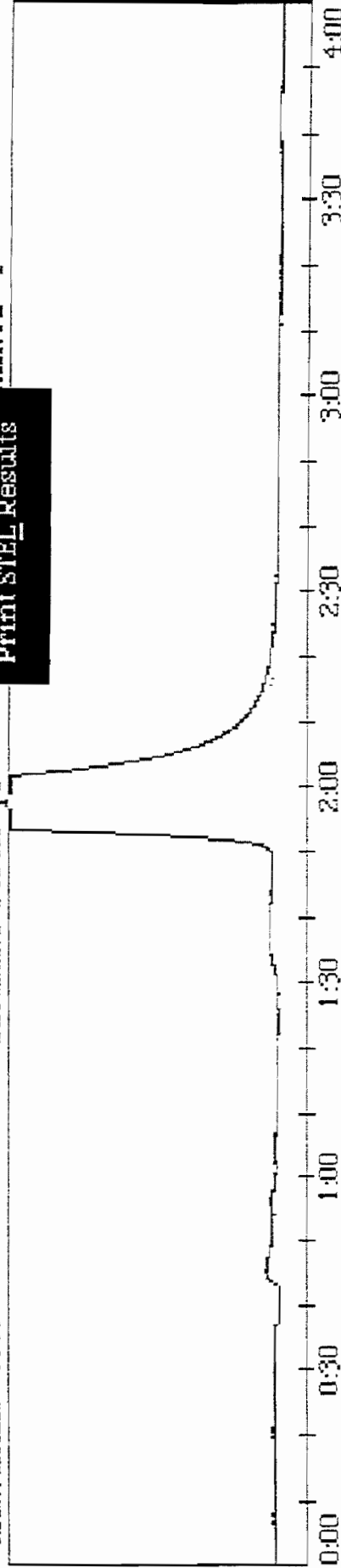
SEGMENT WIDTH - 1

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1

AUTO - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	416.281	13065	1729214	1.56

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	102	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	67.577	2484	280713	1:57	

End of Result Report

hnu

PEAK WORKS

Acquire Window Edit Results Print Help Notes Quit

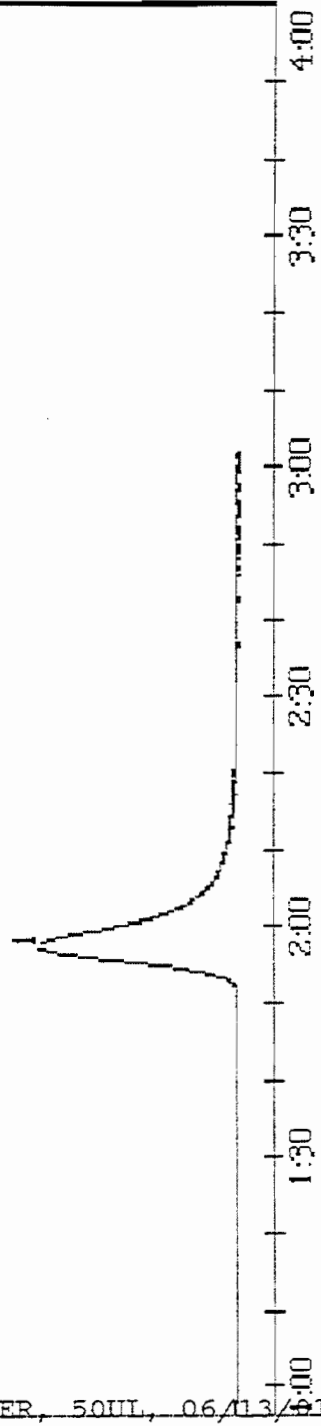
17 Mon Jun 25 12:40:36 2001 Mode: MANUAL Manual Save

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1 AUTO - 1
RANGE - 1

b
SEGMENT WIDTH - 1

TOP OF WATER, 50ML, 06/13/01



Units: PPB

COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
PROPYLENE	67.577	2484	280713	1:57

Navigation icons: left arrow, right arrow, up arrow, down arrow, and a square icon.

Keys to move between menu selections

Detector "A" (a)
Segment Width - 1
Noise - 0
Detector Temp - 100 C

Attenuation - 1
Range - 1
Baseline - 0
Oven Temp - 70 C

Min Area - 5
Autorange - 1
Units - PPB

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 91 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	VINYL CHLORIDE	4.725	64	10324	0:46	
2	TRICHLOROETHENE	71.717	2636	297909	1:57	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: CEP-1, Run #18

Mon Jun 25 12:42:01 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

b

Print Run Results

EXPAND - 1 AUTO - 1

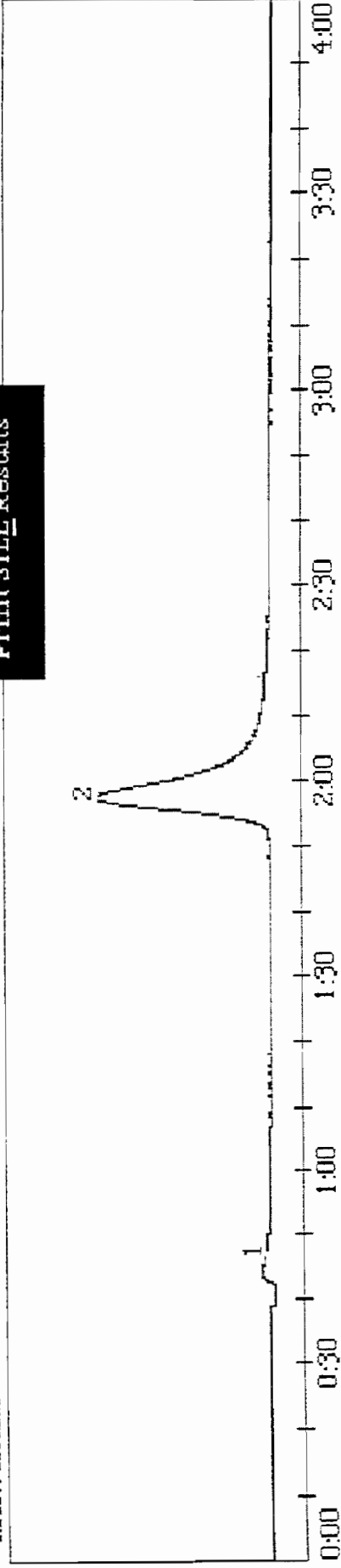
MIN. AREA - 9999

SEGMENT WIDTH - 1

Print TWA Results

RANGE - 1

Print STEL Results



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	VINYL CHLORIDE	4.725	64	10324	0:46
2	TRICHLOROETHENE	71.717	2636	297909	1:57

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	55	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	1,1-DICHLOROETHENE		77	14015	0:57	
2	TRICHLOROETHENE	533.863	15885	2217643	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: CEP-1, Run #44 Mon Jun 25 13:33:51 2001 Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

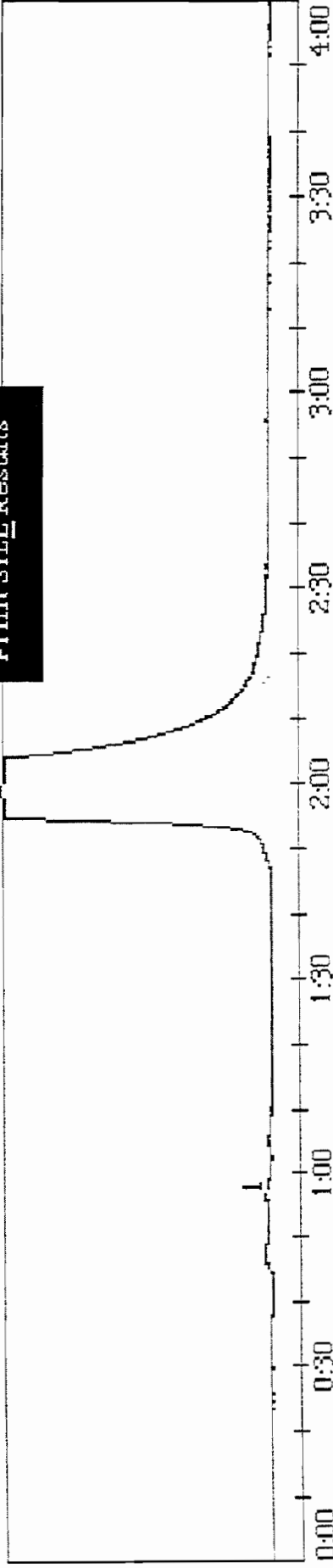
SEGMENT WIDTH - 2

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1

RANGE - 1

AUTO - 1



Units: PPB

b

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	1,1-DICHLOROETHENE	533.863	77	14015	0:57
2	TRICHLOROETHENE		15865	2217643	1:58

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 43 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	41.021	1530	170400	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Lo Acquire Window Edit Results Print Help Notes Quit

Current File: CEP-1. Run #45

Mon Jun 25 13:34:59 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

SEGMENT WIDTH - 1

Print Run Results

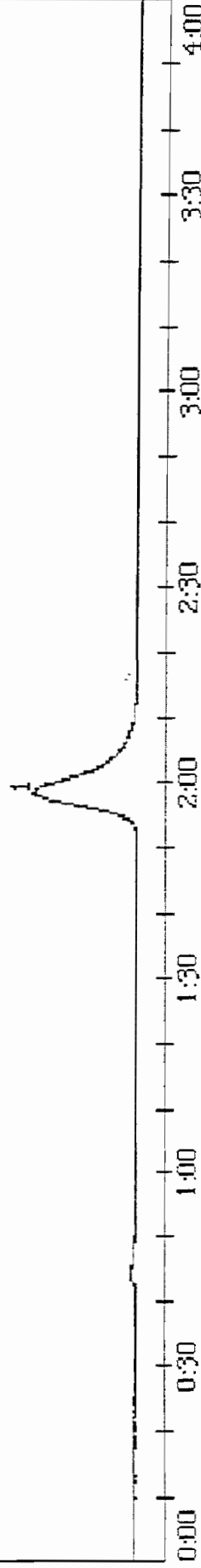
Print TWA Results

Print STEL Results

EXPAND - 1

AUTO - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	41.021	1530	170400	1.58

Navigation icons: Z, A, -, grid, V, S

Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 44 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	466.938	14606	1939642	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit
Current File: GEP-1. Run #46 Mon Jun 25 13:36:13 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

SEGMENT WIDTH - 1

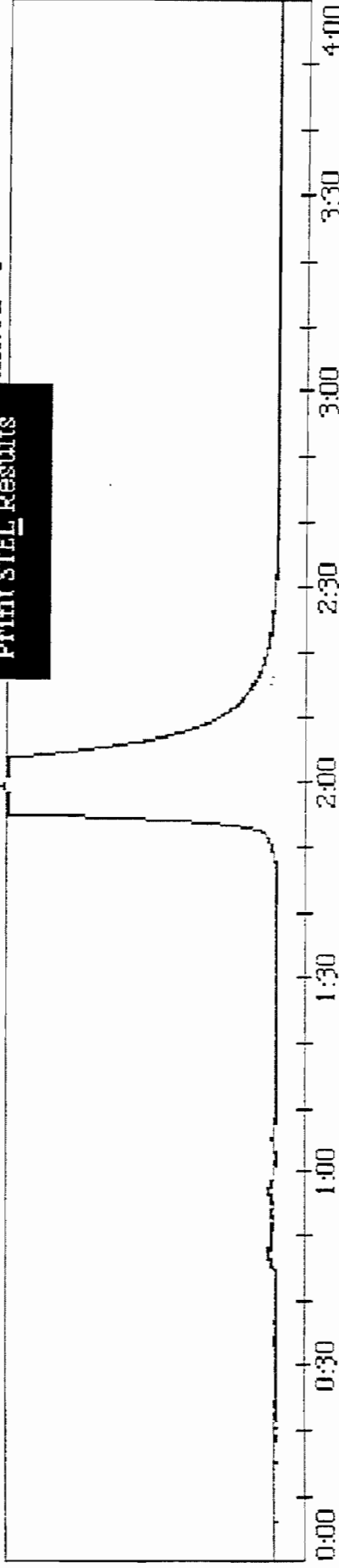
Print Run Results

Print TWA Results

Print STEL Results

EXPAND - 1 AUTO - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	466.938	14606	1939642	1:58

Z

A

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V

Z

Use LEFT or RIGHT arrow keys to move between menu selections

Job "GEP-1" (GEP-1, TOP OF SCREEN, 25UL, 06/14/01) 06/14/10114:58:52 14:58:52

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 42 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	41.183	1431	171073	1:59	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit
Current File: CEP-1, Run #47 Mon Jun 25 13:37:24 2001

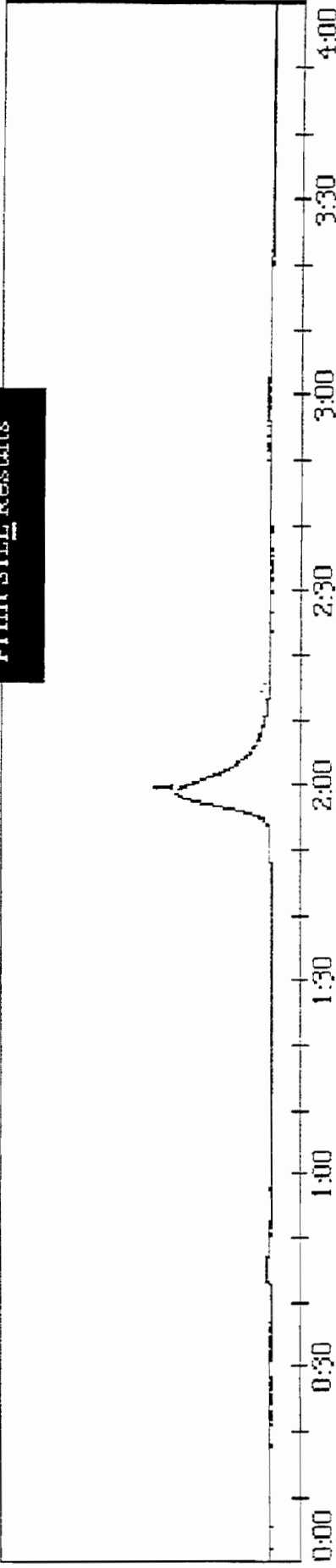
Mode: MANUAL Manual Save

ATTENUATION - 1
MIN. AREA - 9999

b
SEGMENT WIDTH - 1

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1 AUTO - 1
RANGE - 1



b Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	41.183	1431	171073	1.59

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Use LEFT or RIGHT arrow keys to move between menu selections

Job "GEP-1" (GEP-1, TOP OF WATER, 250UL, 06/14/01) 06/14/10115:04:18 15:04:18

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	46	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	446.316	13774	1853979	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit
Current File: GEP-1, Run #48 Mon Jun 25 13:38:28 2001

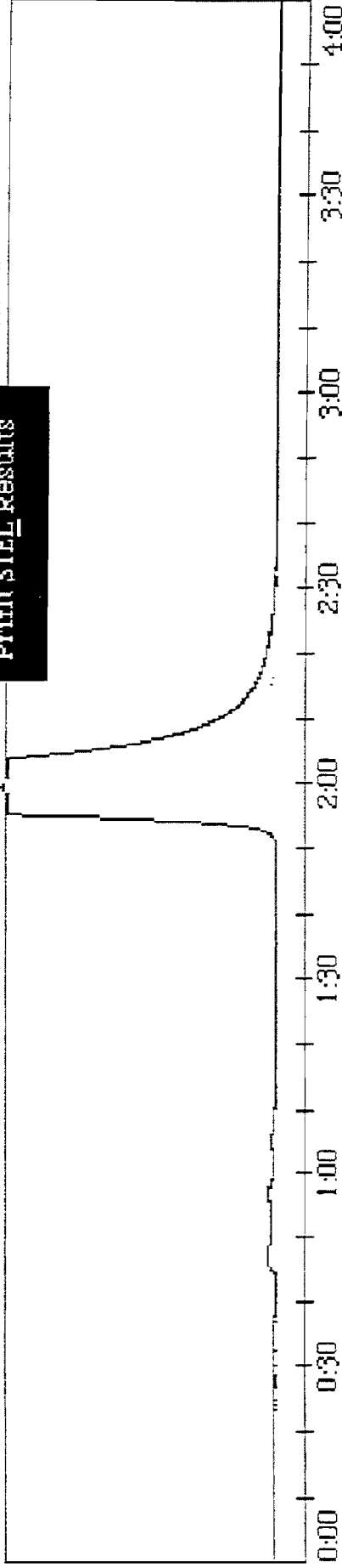
Mode: MANUAL ManualSave

ATTENUATION - 1
MIN. AREA - 9999

b
SEGMENT WIDTH - 1

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1 AUTO - 1
RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	446.316	13774	1853979	1:58

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Use LEFT or RIGHT arrow keys to move between menu selections

Job "GEP-1" (GEP-1, TOP OF WATER, 25UL, 06/14/01) 06/14/10115:10:40 15:10:40

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	48	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	40.831	1454	169610	1:59	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1. Run #49

Mon Jun 25 13:39:33 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

b

Print Run Results

EXPAND - 1

Print TWA Results

AUTO - 1

MIN. AREA - 9999

SEGMENT WIDTH - 1

Print STEL Results

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	40.831	1454	169610	1:59

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 88 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	1,1-DICHLOROETHENE		187	26844	0:57	
2	TRICHLOROETHENE	908.990	28392	3775906	1:57	
3	TETRACHLOROETHENE	8.612	233	43029	3:45	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File:GEP-1. Run #19

Mon Jun 25 12:45:43 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

SEGMENT WIDTH -21

Print Run Results

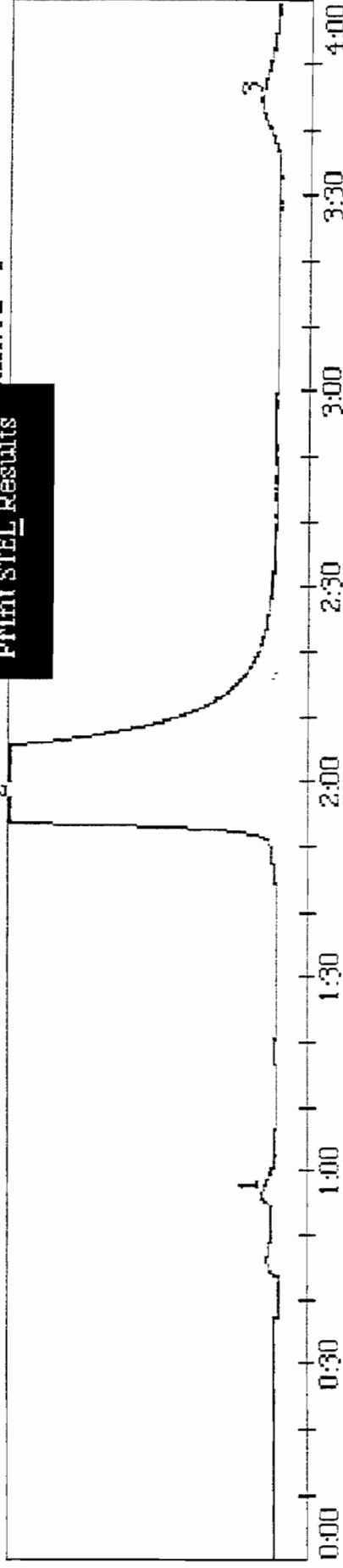
Print TWA Results

Print STEL Results

EXPAND - 1

AUTO - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	1,1-DICHLOROETHENE	908.990 8.612	187	26844	0:57
2	TRICHLOROETHENE		28392	3775906	1:57
3	TETRACHLOROETHENE		233	43029	3:45

Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 3 Baseline - 77 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	195.943	6773	813941	1:57	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: CEP-1, Run #23

Mon Jun 25 12:51:52 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

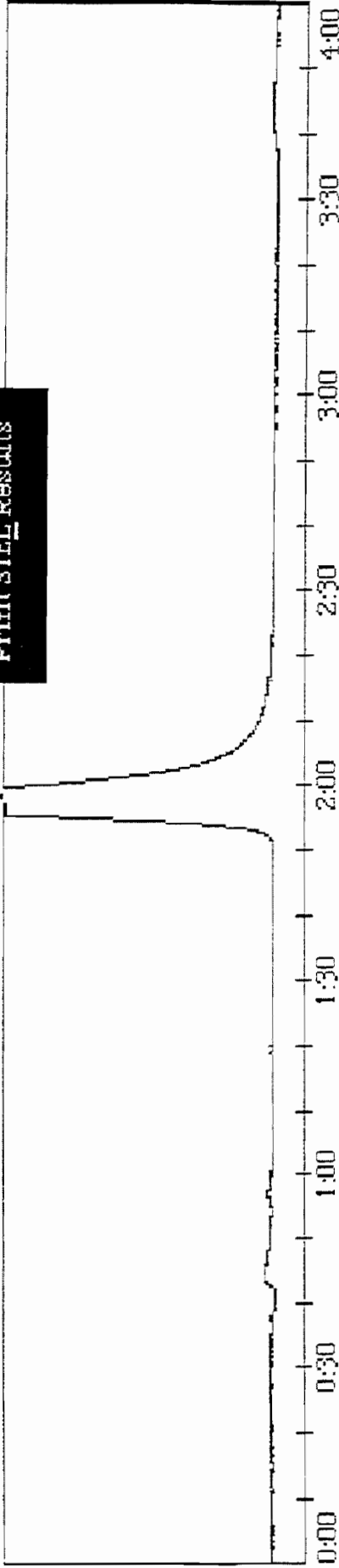
b

SEGMENT WIDTH - 1

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	195.943	6773	813941	1:57

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	81	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	77.569	2792	322219	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: CEP-1, Run #24

Mon Jun 25 12:52:57 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

b

Print Run Results

EXPAND - 1

MIN. AREA - 9999

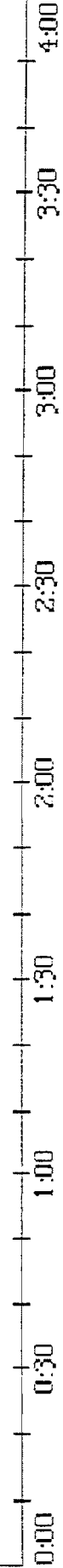
SEGMENT WIDTH - 1

Print TWA Results

RANGE - 1

Print STEL Results

1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	77.569	2792	322219	1.58

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 4 Baseline - 74 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	109.825	3856	456209	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1, Run #26

Mon Jun 25 12:55:16 2001

Mode: MANUAL, ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

SEGMENT WIDTH - 1

Print Run Results

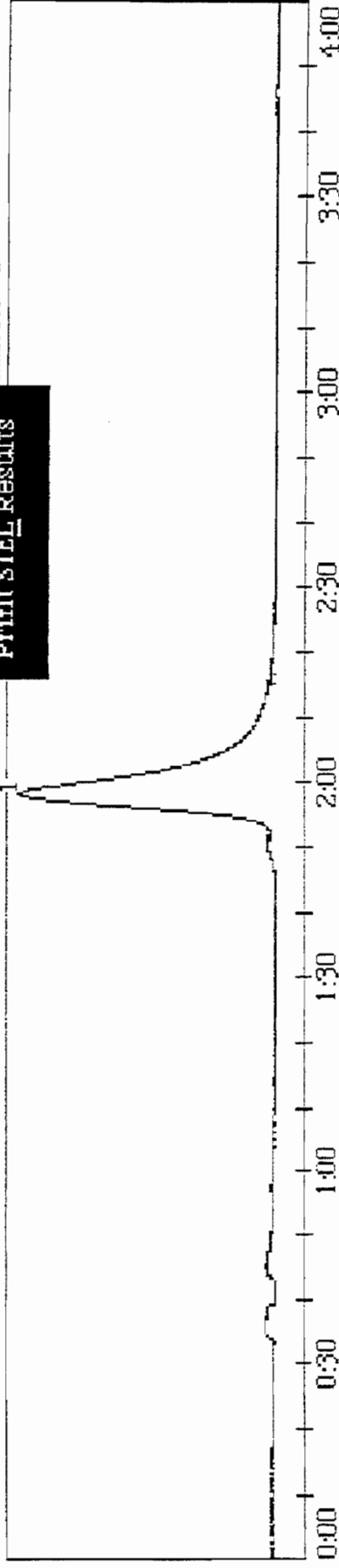
Print TWA Results

Print STEL Results

EXPAND - 1

RANGE - 1

AUTO - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	109.825	3856	456209	1:58

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	3	Baseline -	52	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	1,1-DICHLOROETHENE		144	22493	0:57	
2	TRICHLOROETHENE	838.520	26128	3483175	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: CEP-1. Run #30

Mon Jun 25 13:06:46 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

SEGMENT WIDTH - 2

Print Screen

Print Run Results

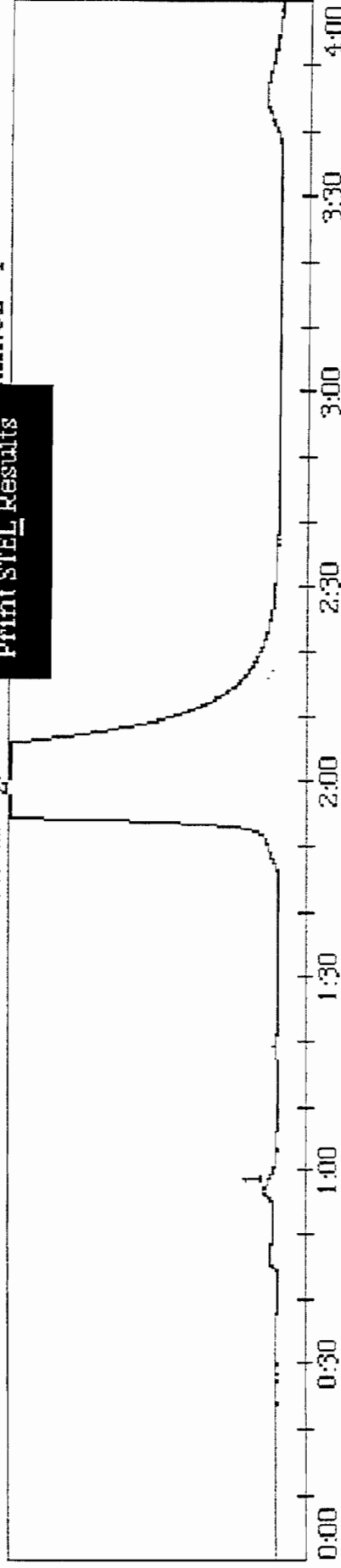
Print TWA Results

Print STEL Results

EXPAND - 1

AUTO - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	1,1-DICHLOROETHENE	838.520	144	22493	0:57
2	TRICHLOROETHENE		26128	3483175	1:58

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Use LEFT or RIGHT arrow keys to move between menu selections

Job "GEP-1" (GEP-2, BOTTOM OF SCREEN, 25UL, 06/14) 06/14/10114:02:48 14:02:48

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 49 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	64.725	2306	268864	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1, Run #39

Mon Jun 25 13:26:38 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

b

MIN. AREA - 9999

SEGMENT WIDTH - 1

Print Run Results

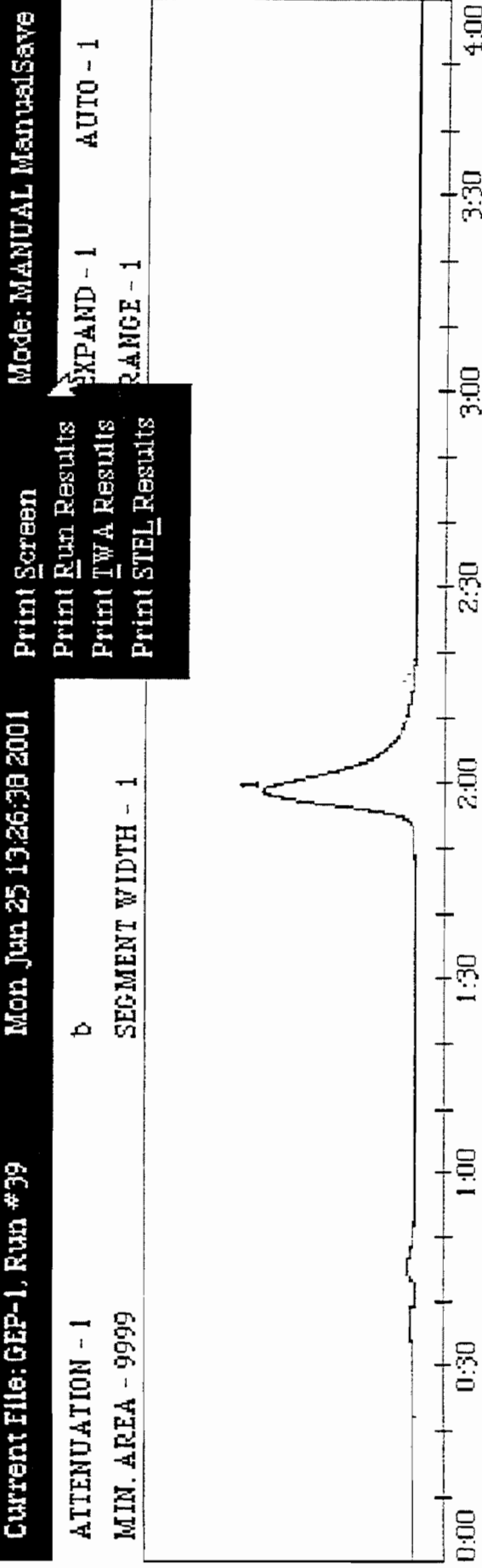
Print TWA Results

Print STEL Results

EXPAND - 1

AUTO - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	64.725	2306	268864	1.58

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 45 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	*** unknown ***		53	10748	0:49	
2	1,1-DICHLOROETHENE		226	14354	0:56	
3	TRICHLOROETHENE	991.542	30175	4118825	1:58	
4	TETRACHLOROETHENE	8.281	147	41375	3:49	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: CEP-1. Run #40

Mon Jun 25 13:29:26 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

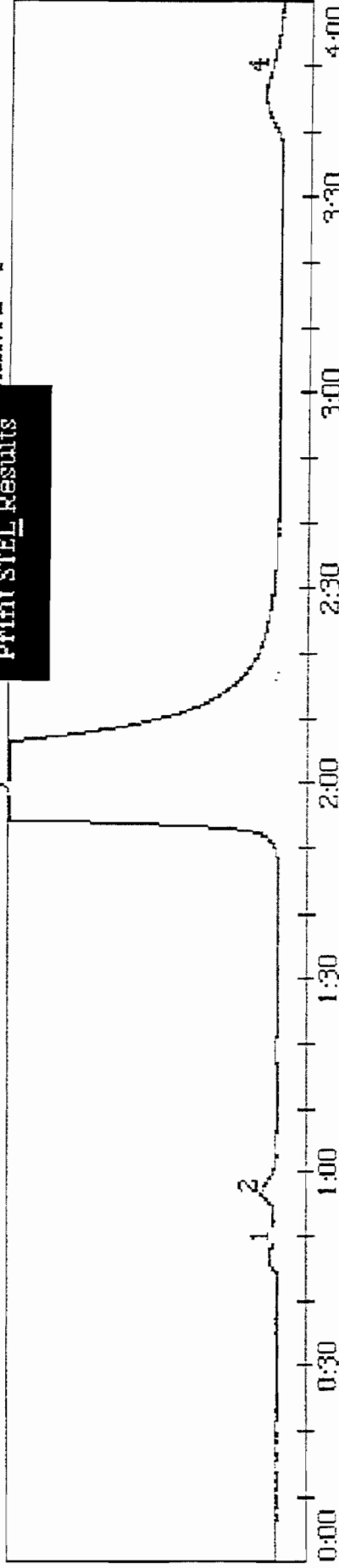
SEGMENT WIDTH - 3

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1

RANGE - 1

AUTO - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	unknown		53	10748	0:49
2	1,1-DICHLOROETHENE		226	14354	0:56
3	TRICHLOROETHENE	991.542	30175	4118825	1:58
4	TETRACHLOROETHENE	8.281	147	41375	3:49

Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 48 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	114.373	4012	475101	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1. Run #41

Mon Jun 25 13:30:35 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

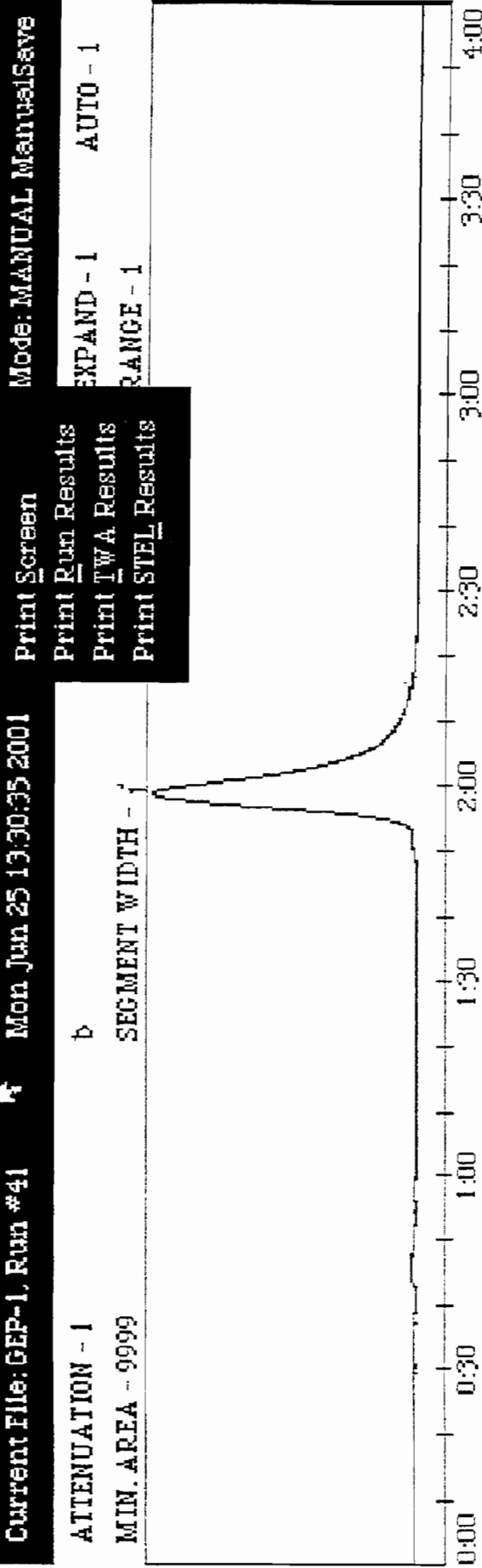
b

SEGMENT WIDTH -

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	114.373	4012	475101	1.58

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 1 Baseline - 44 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm
1	TRICHLOROETHENE	746.169	22436	3099554	1:58	
2	TETRACHLOROETHENE	4.618	161	23072	3:45	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1, Run #42

Mon Jun 25 13:31:36 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

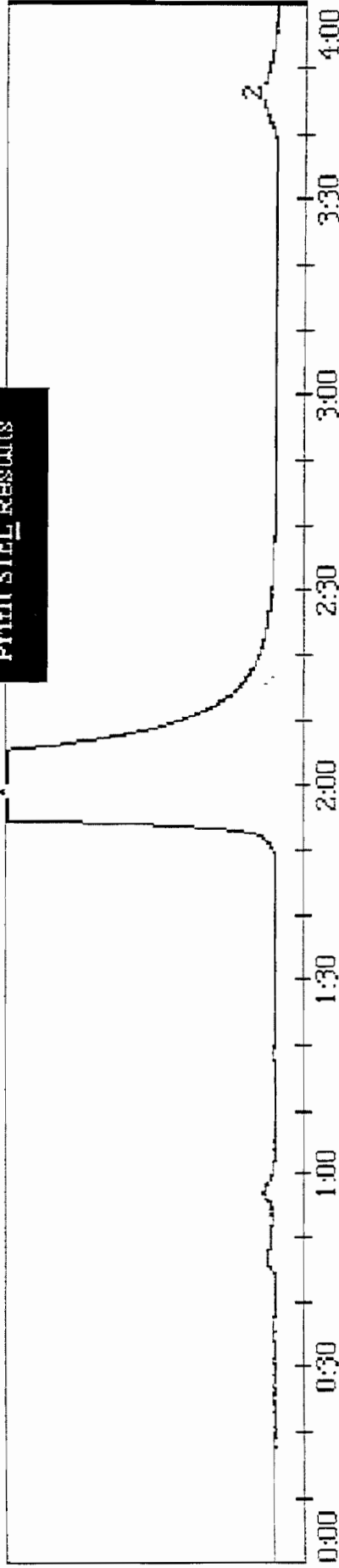
SEGMENT WIDTH - 1

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1

RANGE - 1

AUTO - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	746.169	22436	3099554	1:58
2	TETRACHLOROETHENE	4.618	161	23072	3:45

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 1 Baseline - 48 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	86.399	2905	358898	1:59	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1. Run #43

Mon Jun 25 13:32:39 2001

Mode: MANUAL Manual Save

ATTENUATION - 1

MIN. AREA - 9999

b

SEGMENT WIDTH - 1

Print Run Results

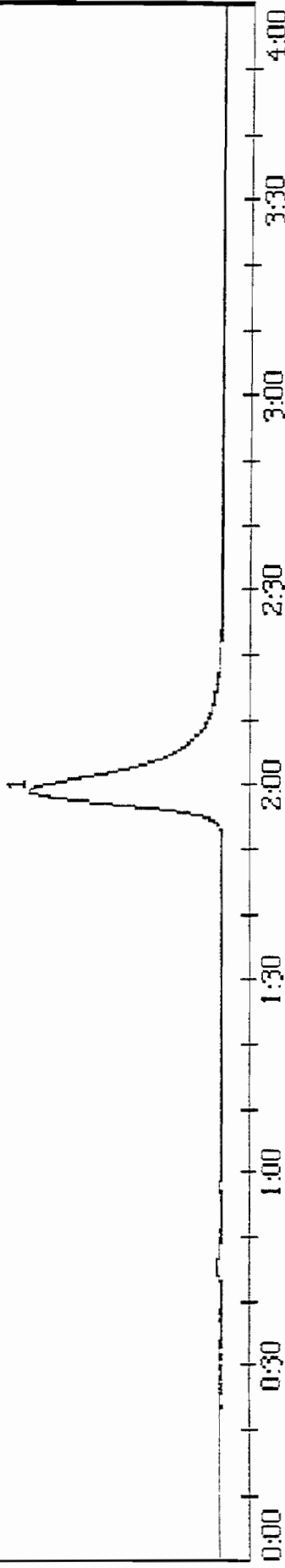
Print TWA Results

Print STEL Results

EXPAND - 1

AUTO - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	86.399	2905	358898	1:59

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 52 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	VINYL CHLORIDE	7.178	153	15683	0:45	
2	TRICHLOROETHENE	45.954	1550	190890	1:59	

End of Result Report

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 3 Baseline - 36 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	VINYL CHLORIDE	16.409	465	35850	0:45	
2	TRICHLOROETHENE	292.375	8774	1214512	1:58	

End of Result Report

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	50	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	*** unknown ***		115	26078	1:47	
2	TRICHLOROETHENE	743.663	22150	3089146	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit
Current File: GEP-1, Run #58 Mon Jun 25 13:48:31 2001

Mode: MANUAL ManualSave

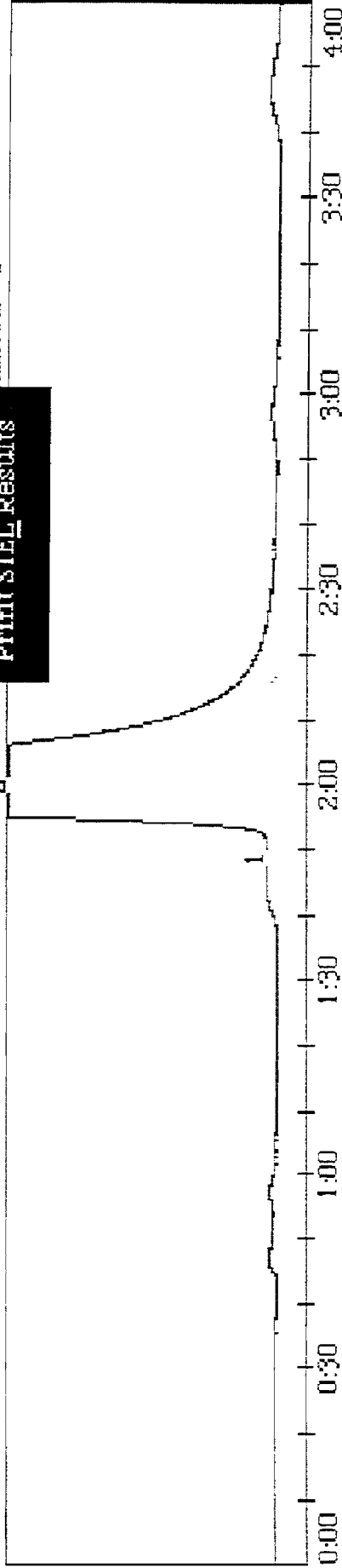
ATTENUATION - 1
MIN. AREA - 9999

b

SEGMENT WIDTH - 2

EXPAND - 1 AUTO - 1
RANGE - 1

Print Run Results
Print TWA Results
Print STEL Results



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	unknown		115	26078	1:47
2	TRICHLOROETHENE	743.663	22150	3089146	1:58

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Use LEFT or RIGHT arrow keys to move between menu selections

Job "GEP-1" (GEP-4, TOP OF WATER, 25UL, 06/14/01) 06/14/10117:01:00 17:01:00

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 72 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	57.938	2093	240671	1:59	

End of Result Report

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	93	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	370.569	11457	1539327	1:57	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1. Run #20

Mon Jun 25 12:47:03 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

SEGMENT WIDTH - 11

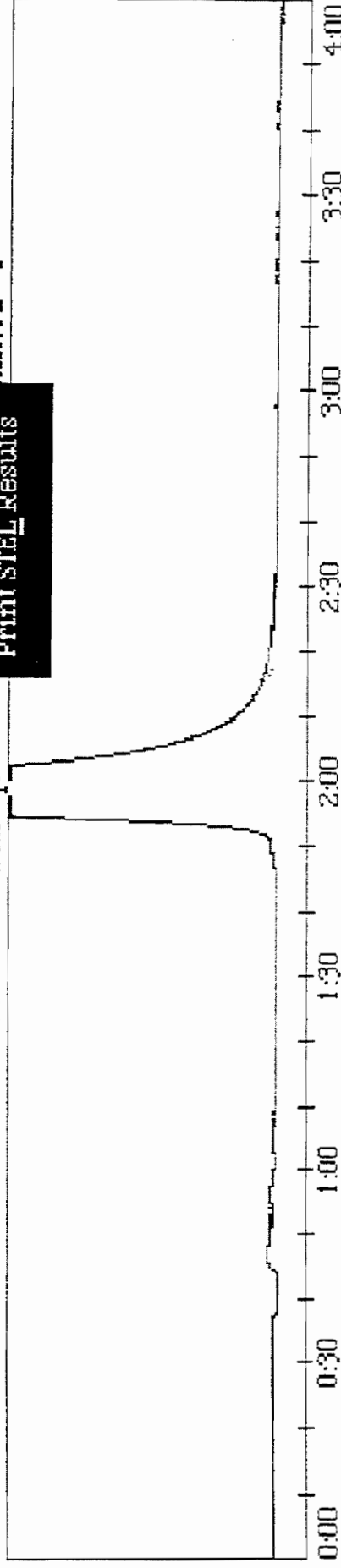
Print Run Results

Print TWA Results

Print STEL Results

EXPAND - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	370.569	11457	1539327	1:57

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Use LEFT or RIGHT arrow keys to move between menu selections

Job "GEP-1" (MW-99-13, TOP OF WATER, 50UL, 06/13/01) 06/13/10115:57:31 15:57:31

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	4	Baseline -	76	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	52.354	1846	217478	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Notes Quit

Current File: GEP-1, Run #25

Mon Jun 25 12:54:13 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

SEGMENT WIDTH - 1

Print Run Results

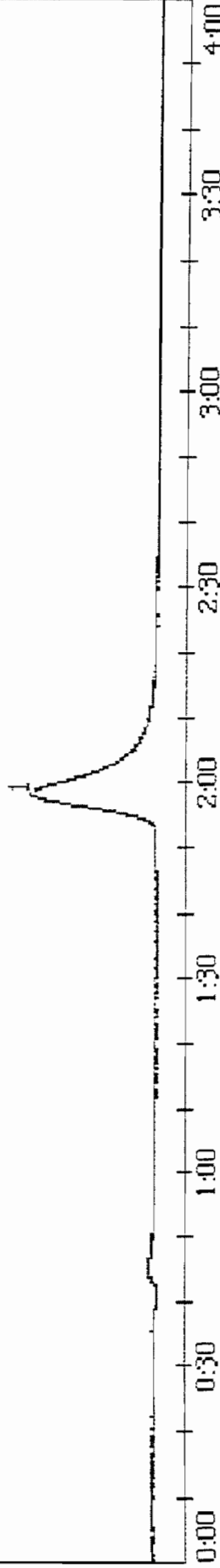
Print TWA Results

Print STEL Results

EXPAND - 1

AUTO - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	52.354	1846	217478	1:58

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	4	Baseline -	78	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	50.209	1774	208567	1:58	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: CEP-1, Run #27

Mon Jun 25 12:56:14 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

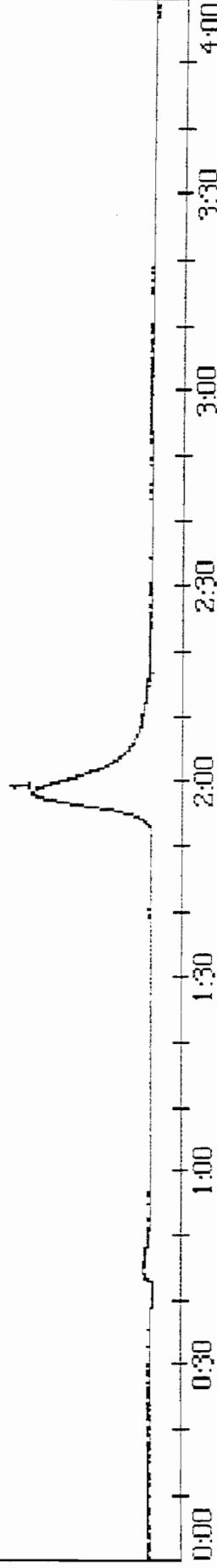
SEGMENT WIDTH - 1

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1

AUTO - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	50.209	1774	208567	1:58

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 92 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	C-1,2-DICHLOROETHENE		267	22389	1:19	
2	TRICHLOROETHENE	6.935	256	28807	1:58	
3	TETRACHLOROETHENE	34.956	793	174647	3:45	

End of Result Report

Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	3	Baseline -	75	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	C-1,2-DICHLOROETHENE		233	21775	1:19	
2	TRICHLOROETHENE	6.787	287	28192	1:57	
3	TETRACHLOROETHENE	33.165	792	165702	3:44	

End of Result Report

CSI

Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	79	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	C-1,2-DICHLOROETHENE		354	29182	1:18	
2	TRICHLOROETHENE	11.299	403	46936	1:57	
3	TETRACHLOROETHENE	51.582	1197	257718	3:44	

End of Result Report

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 47 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	C-1,2-DICHLOROETHENE		368	28979	1:19	
2	TRICHLOROETHENE	14.144	464	58754	1:59	
3	TETRACHLOROETHENE	48.038	1063	240010	3:46	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: CEP-1, Run #50

Mon Jun 25 13:40:45 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

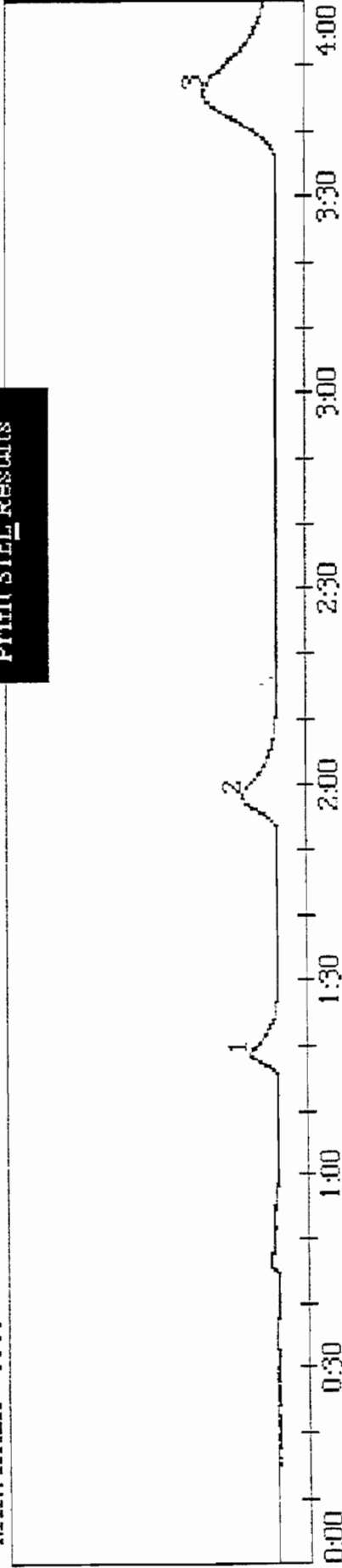
b

MIN. AREA - 9999

SEGMENT WIDTH - 1

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1
RANGE - 1
AUTO - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	C-1,2-DICHLOROETHENE	14.144 48.038	368	28979	1:19
2	TRICHLOROETHENE		464	50754	1:59
3	TETRACHLOROETHENE		1063	240010	3:46

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	51	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	C-1,2-DICHLOROETHENE		679	57957	1:19	
2	TRICHLOROETHENE	25.091	871	104227	1:58	
3	TETRACHLOROETHENE	102.931	2220	514271	3:46	

End of Result Report

Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	52	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	C-1,2-DICHLOROETHENE		759	63907	1:19	
2	TRICHLOROETHENE	26.877	892	111645	1:58	
3	TETRACHLOROETHENE	130.313	2654	651079	3:46	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit
 Current File: GEP-1. Run #52 Mon Jun 25 13:43:25 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

b

Print Run Results

EXPAND - 1 AUTO - 1

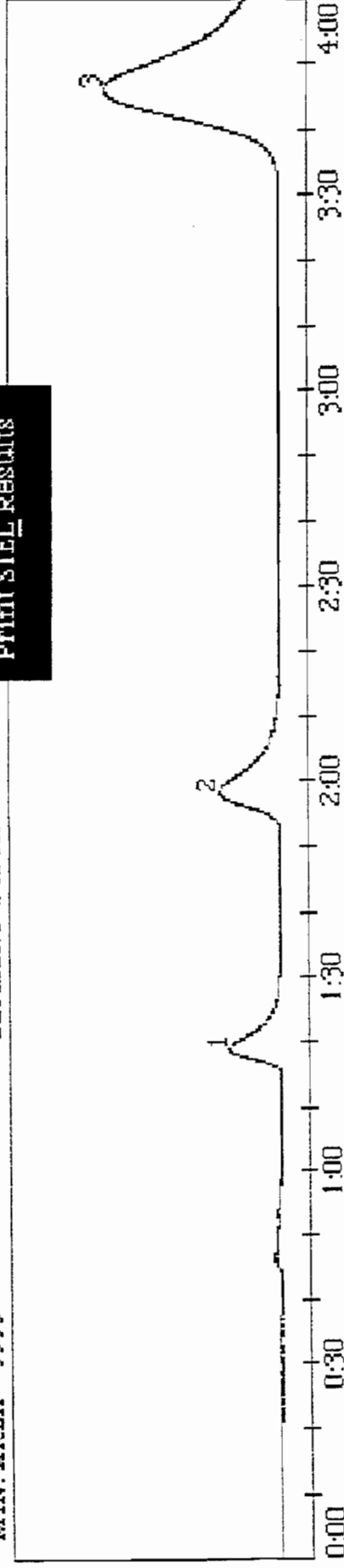
MIN. AREA - 9999

SEGMENT WIDTH - 1

Print TWA Results

RANGE - 1

Print STEL Results



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	C-1,2-DICHLOROETHENE	26.877 130.313	759	63907	1:19
2	TRICHLOROETHENE		892	111645	1:58
3	TETRACHLOROETHENE		2654	651079	3:46

Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 3 Baseline - 36 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	C-1,2-DICHLOROETHENE		379	43518	1:19	
2	TRICHLOROETHENE	13.470	377	55952	1:59	
3	TETRACHLOROETHENE	46.296	1028	231305	3:47	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1, Run #54

Mon Jun 25 13:44:56 2001

Mode: MANUAL Manual Save

ATTENUATION - 1

b

MIN. AREA - 9999

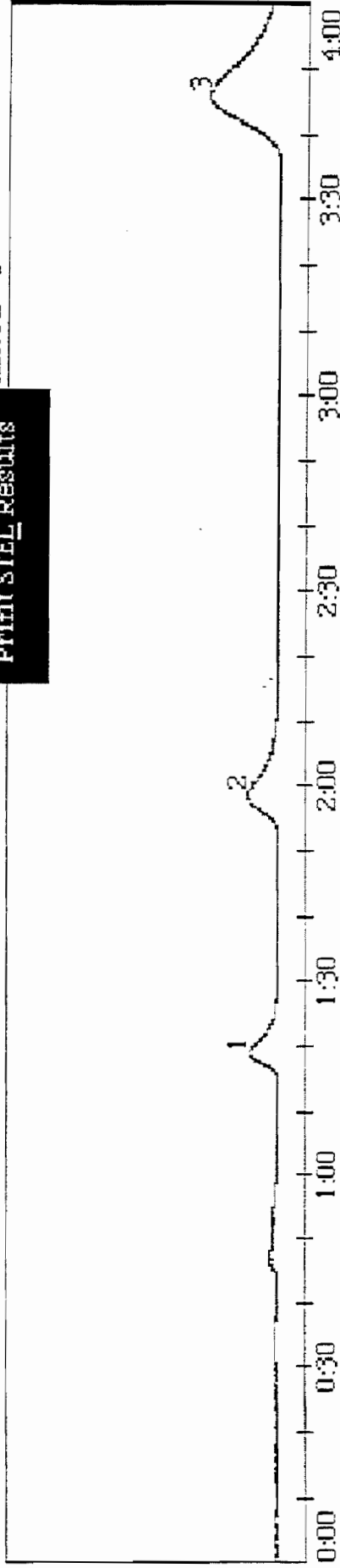
SEGMENT WIDTH - 1

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1

RANGE - 1

AUTO - 1



Units: PPB

b

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	C-1,2-DICHLOROETHENE	19.470	379	49518	1:19
2	TRICHLOROETHENE		377	55952	1:59
3	TETRACHLOROETHENE		1028	231305	3:47

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	3	Baseline -	43	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	C-1,2-DICHLOROETHENE		705	73297	1:19	
2	TRICHLOROETHENE	25.838	792	107328	1:59	
3	TETRACHLOROETHENE	100.907	1977	504158	3:47	

End of Result Report

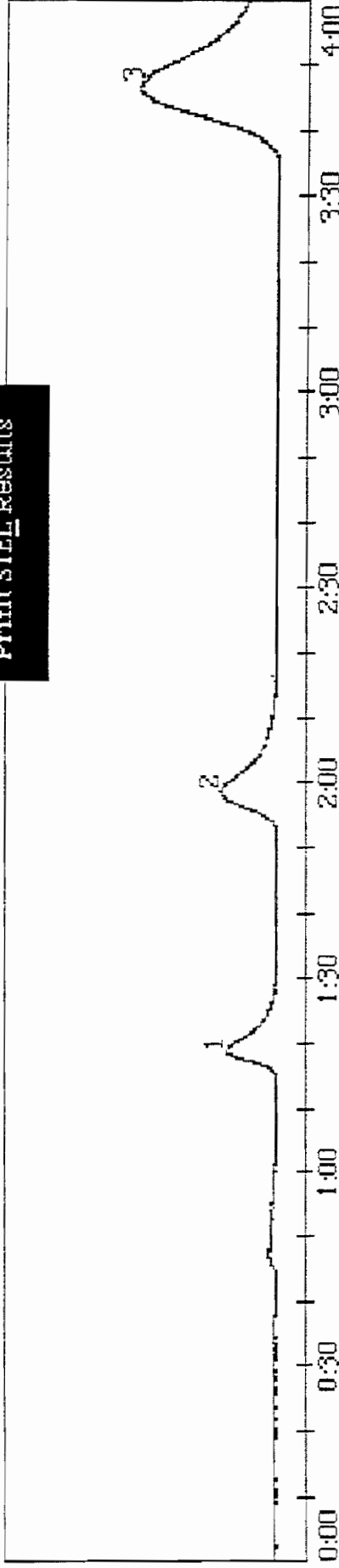
261

Load

Mode: MANUAL Manual Save

EXPAND-1 AUTO-1

RANGE - 1



PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	C-1,2-DICHLOROETHENE		705	73297	1.19
2	TRICHLOROETHENE	25.838	792	107328	1.59
3	TETRACHLOROETHENE	100.907	1977	504158	3.47

Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 40 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	C-1,2-DICHLOROETHENE		755	74274	1:19	
2	TRICHLOROETHENE	25.203	809	104693	1:58	
3	TETRACHLOROETHENE	101.999	2090	509611	3:46	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1, Run #56

Mon Jun 25 13:47:06 2001

Print Screen

Mode: MANUAL Manual Save

ATTENUATION - 1

b

Print Run Results

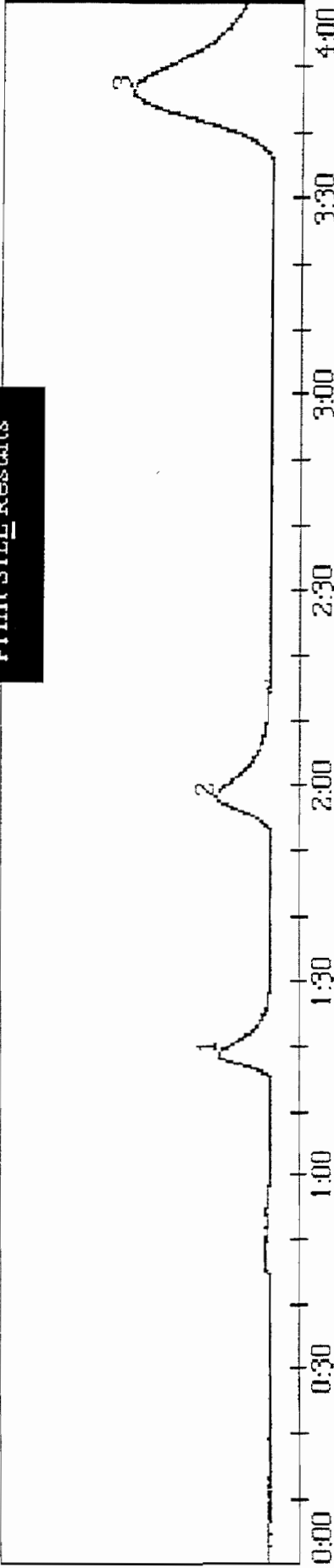
EXPAND - 1 AUTO - 1

MIN. AREA - 9999

SEGMENT WIDTH - 1

Print TWA Results

Print STEL Results



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	C-1,2-DICHLOROETHENE	25.203	755	74274	1:19
2	TRICHLOROETHENE		809	104693	1:58
3	TETRACHLOROETHENE		2090	509611	3:46

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	127	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	237.609	7783	987016	1:57	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: CEP-1, Run #6

Mon Jun 25 12:25:45 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

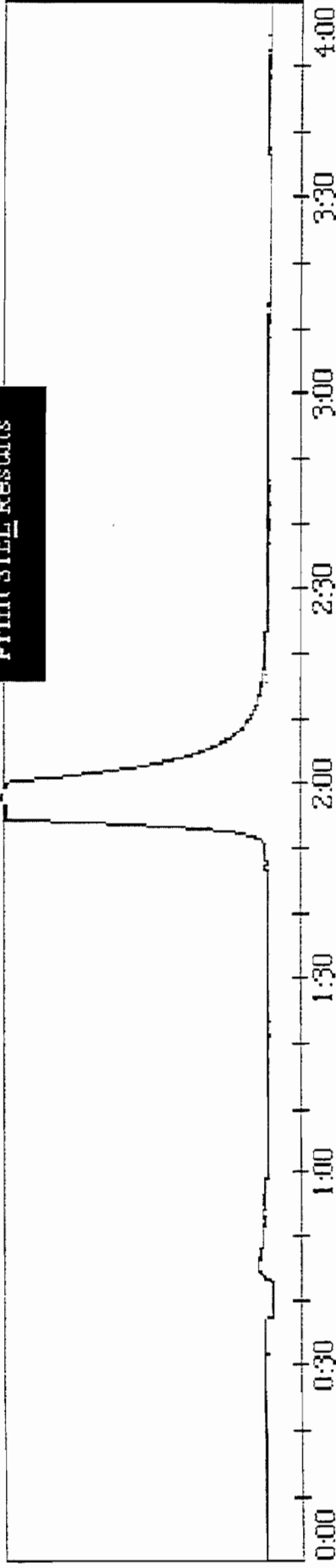
b

SEGMENT WIDTH - 1

Print Run Results
Print TWA Results
Print STE_L Results

EXPAND - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	237.609	7783	987016	1:57

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 128 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	*** unknown ***	:	94	10070	0:34	
2	TRICHLOROETHENE	43.269	1620	179738	1:57	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1, Run #7

Mon Jun 25 12:26:57 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

b

Print Run Results

EXPAND - 1 AUTO - 1

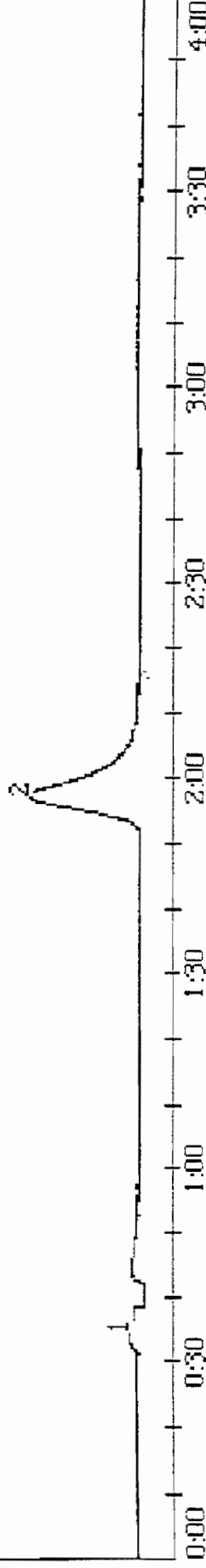
MIN. AREA - 9999

SEGMENT WIDTH - 1

Print TWA Results

RANGE - 1

Print STEL Results



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	unknown		94	10070	0:34
2	TRICHLOROETHENE	43.269	1620	179738	1:57

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Use LEFT or RIGHT arrow keys to move between menu selections

Job "GEP-1" (MW-15, TOP, 250UL INJECT, 06/12/01) 06/12/10117:01:30 17:01:30

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	1	Baseline -	127	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	327.249	10213	1359377	1:57	

End of Result Report

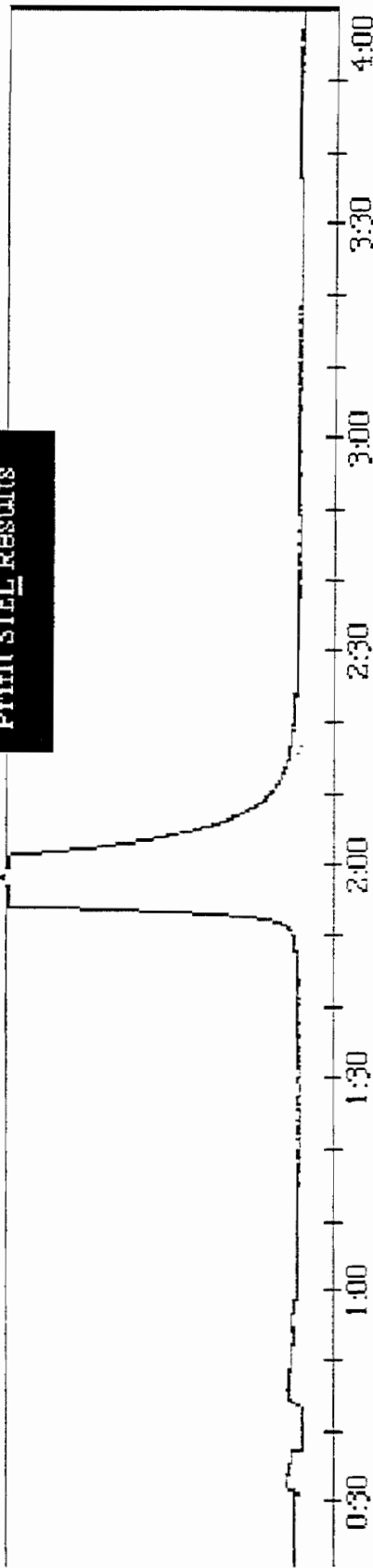
PEAK WORKS

Load Acquire Window Edit Results Print Help Notes Quit

File:GEP-1. Run #8 Mon Jun 25 12:27:54 2001 Mode: MANUAL ManualSave

Print Screen
Print Run Results
Print TWA Results
Print STEL Results
EXPAND - 1
RANGE - 1
AUTO - 1

ATION - 1
EA - 9999
SEGMENT WIDTH - 1



Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	327.249	10213	1359377	1.57

or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	118	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm
1	TRICHLOROETHENE	57.548	2148	239054	1:57	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1, Run #9

Mon Jun 25 12:32:48 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

SEGMENT WIDTH - 1

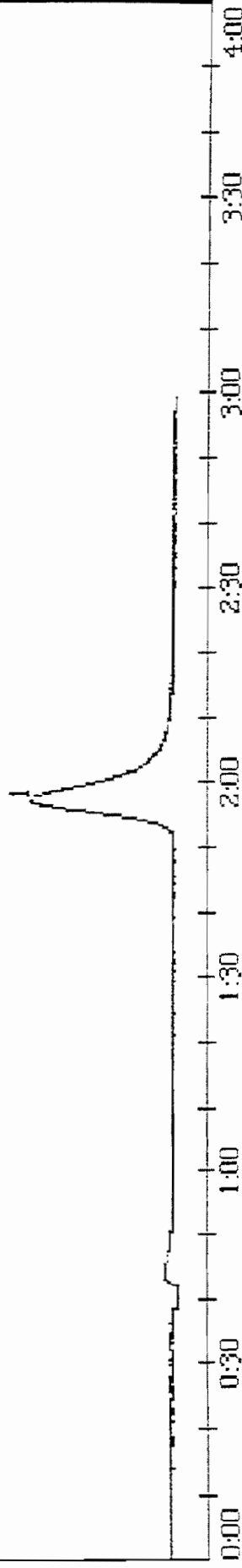
Print Run Results

Print TWA Results

Print STEL Results

EXPAND - 1 AUTO - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	57.548	2148	239054	1.57

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Use LEFT or RIGHT arrow keys to move between menu selections

Job "GEP-1" (MW-15, BOTTOM. 250UL INJECT, 06/12/01) 06/12/10117:11:27 17:11:27

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 125 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	183.645	5935	762853	1:57	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: CEP-1, Run #10

Mon Jun 25 12:34:08 2001

Mode: MANUAL Manual Save

ATTENUATION - 1

MIN. AREA - 9999

b

SEGMENT WIDTH -1

Print Screen

Print Run Results

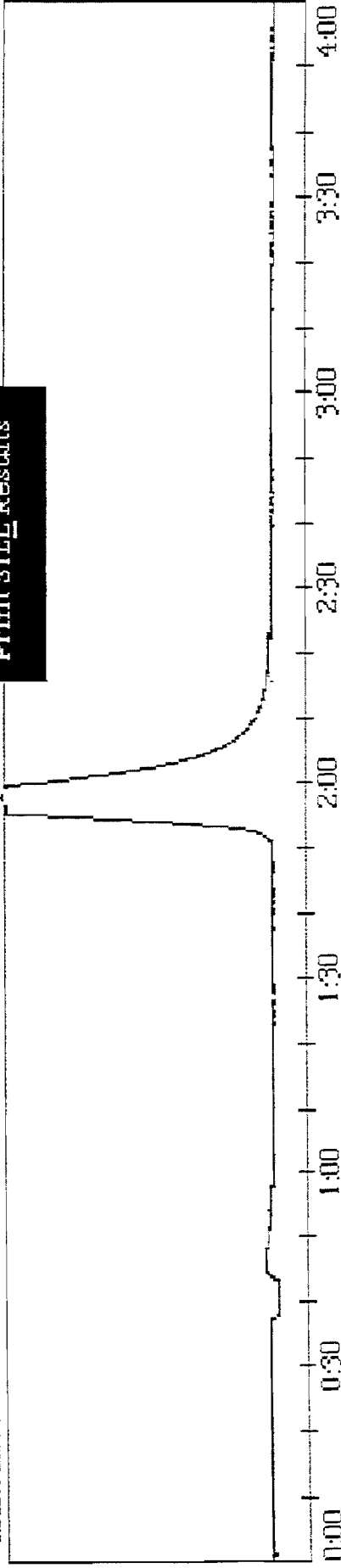
Print TWA Results

Print STEL Results

EXPAND - 1

AUTO - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	183.645	5935	762853	1:57

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 109 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	VINYL CHLORIDE	4.884	109	10670	0:46	
2	TRICHLOROETHENE	72.533	2529	301301	1:57	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1, Run #11

Mon Jun 25 12:35:28 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

b

MIN. AREA - 9999

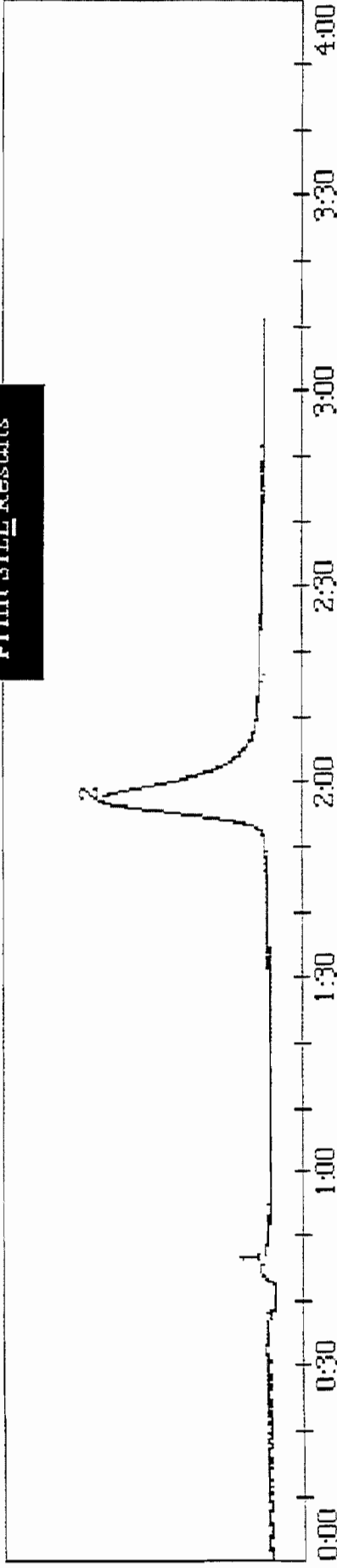
SEGMENT WIDTH - 1

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1

RANGE - 1

AUTO - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	VINYL CHLORIDE	4.884	109	10670	0:46
2	TRICHLOROETHENE	72.593	2529	301301	1:57

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	115	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	*** unknown ***	:	96	13577	0:47	
2	TRICHLOROETHENE	265.393	8545	1102431	1:56	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1, Run #14

Mon Jun 25 12:36:48 2001

Print Screen

Mode: MANUAL ManualSave

ATTENUATION - 1

b

MIN. AREA - 9999

SEGMENT WIDTH -21

Print Run Results

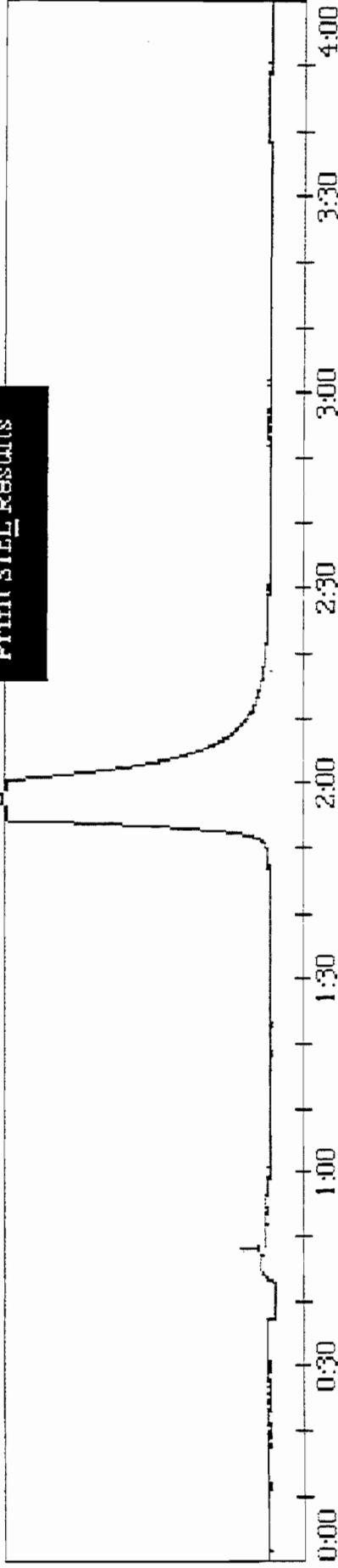
Print TWA Results

Print STEL Results

EXPAND - 1

AUTO - 1

RANGE - 1



b Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	unknown		96	13577	0:47
2	TRICHLOROETHENE	265.393	8545	1102431	1:56

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (a) Attenuation - 1 Min Area - 5
Segment Width - 1 Range - 1 Autorange - 1
Noise - 0 Baseline - 0 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (b) Attenuation - 1 Min Area - 9999
Segment Width - 1 Range - 1 Autorange - 1
Noise - 2 Baseline - 114 Units - PPB
Detector Temp - 100 C Oven Temp - 70 C

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	48.676	1775	202196	1:57	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit
Current File: CEP-1, Run #15 Mon Jun 25 12:38:07 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

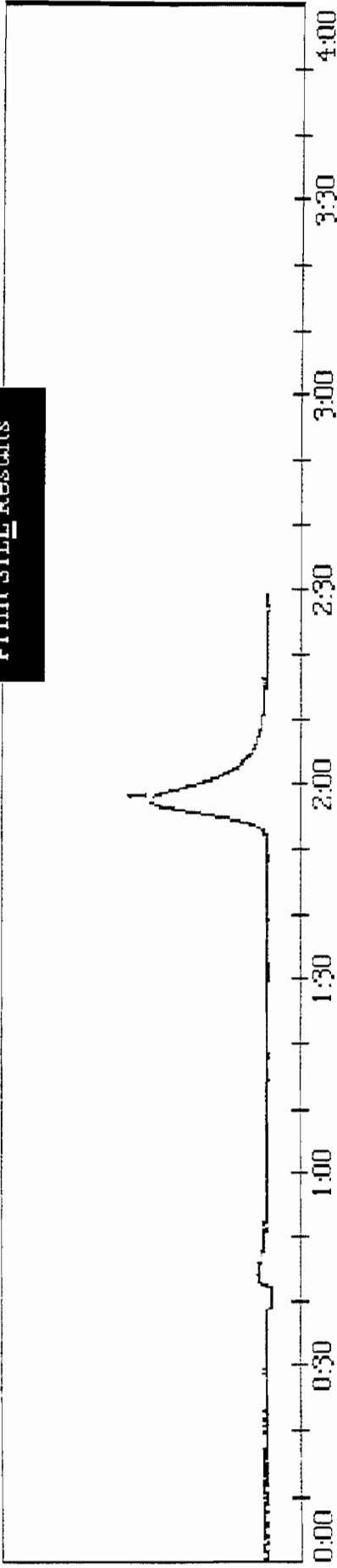
b

SEGMENT WIDTH - 1

Print Run Results
Print TWA Results
Print STEL Results

EXPAND - 1

RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	48.676	1775	202196	1:57

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	100	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	489.740	15340	2034360	1:56	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit
Current File: GEP-1, Run #32 Mon Jun 25 12:57:24 2001

Mode: MANUAL ManualSave

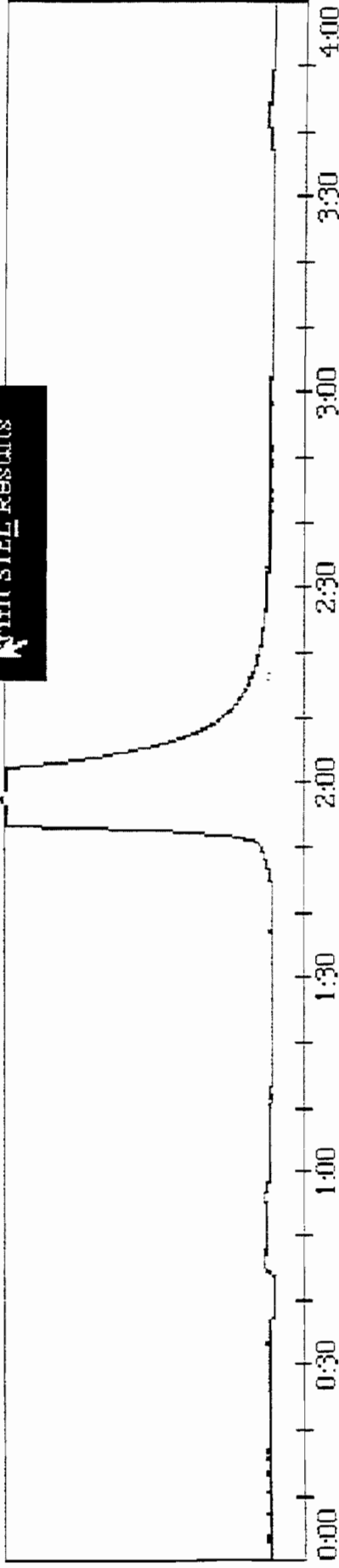
ATTENUATION - 1
MIN. AREA - 9999

Print Run Results
Print TWA Results
Print STEL Results

b

SEGMENT WIDTH -1

EXPAND - 1 AUTO - 1
RANGE - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	489.740	15340	2034360	1.56

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	100	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	38.457	1396	159750	1:57	

End of Result Report

hnu

PEAK WORKS

hnu

Load Acquire Window Edit Results Print Help Notes Quit

Current File: GEP-1, Run #33

Mon Jun 25 12:58:29 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

b

EXPAND - 1 AUTO - 1

MIN. AREA - 9999

SEGMENT WIDTH - 1

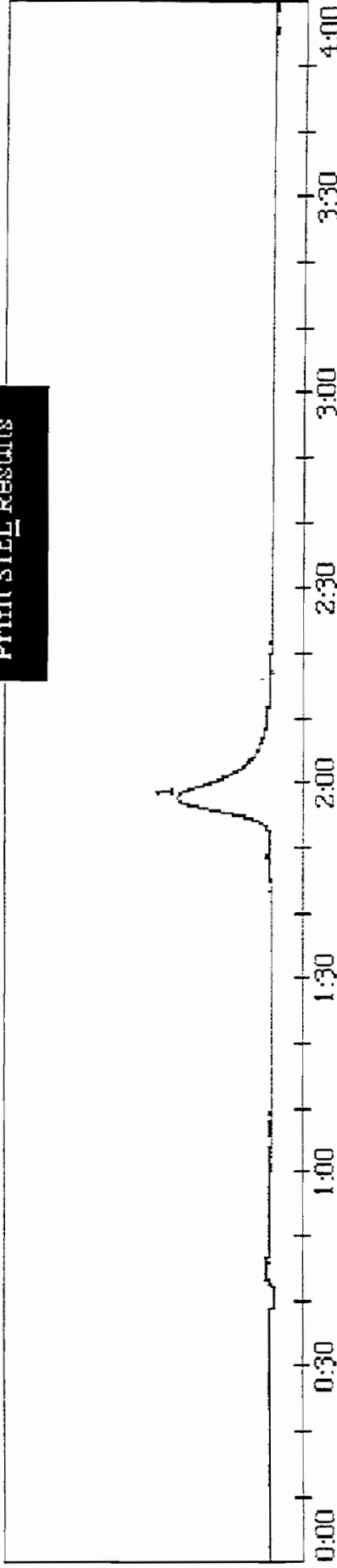
RANGE - 1

Print Screen

Print Run Results

Print TWA Results

Print STEL Results



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	38.457	1396	159750	1:57

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Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	2	Baseline -	85	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	468.118	15025	1944542	1:57	

End of Result Report

251

Notes

Mode: MANUAL Manual Save

Print Run Results

ATTN - 1

RANGE - 1



Use LEFT or RIGHT arrow keys to move between menu selections

Detector "A" (	a)	Attenuation -	1	Min Area -	5
Segment Width -	1	Range -	1	Autorange -	1
Noise -	0	Baseline -	0	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

Detector "B" (	b)	Attenuation -	1	Min Area -	9999
Segment Width -	1	Range -	1	Autorange -	1
Noise -	3	Baseline -	91	Units -	PPB
Detector Temp -	100 C	Oven Temp -	70 C		

Peak	Component Name	Concentration	Height	Area	Time	Alarm

1	TRICHLOROETHENE	39.375	1478	163560	1:57	

End of Result Report

amu

PEAK WORKS

amu

Load Acquire Window Edit Results Print Help Notes Quit
Current File: GEP-1. Run #35 Mon Jun 25 13:02:25 2001

Mode: MANUAL ManualSave

ATTENUATION - 1

MIN. AREA - 9999

b

SEGMENT WIDTH - 1

Print Run Results

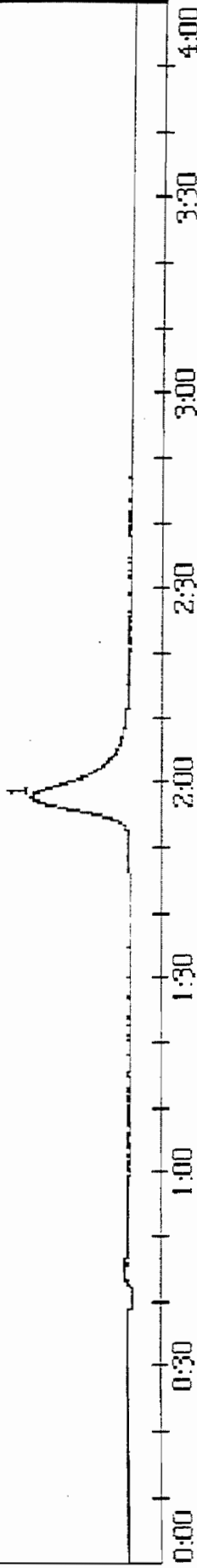
Print TWA Results

Print STEL Results

EXPAND - 1

RANGE - 1

AUTO - 1



b

Units: PPB

PEAK	COMPONENT NAME	CONCENTRATION	HEIGHT	AREA	TIME
1	TRICHLOROETHENE	39.375	1478	163560	1.57

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Use LEFT or RIGHT arrow keys to move between menu selections

APPENDIX F

Laboratory Analytical Results with DUSRs (June 20, 2001 Groundwater Sampling Event (Groundwater))

Form 1- VOC Results
(June 13, 2001 Groundwater Sampling)

M E M O

To: Mark Williams, Project Manager

From: Lisa Smith, Environmental Chemist

Subject: **Data Validation**
Supplemental Subsurface Investigation
Glenville Energy Park (GEP)

The assessment of the data packages submitted to Earth Tech from Adirondack Environmental Services of Albany, New York for the June 2001 Supplemental Subsurface Investigation has been completed. Samples that have been reviewed are summarized in Table 1. The analytical data was reviewed using procedures contained in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," October 1999, and the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review," February 1994. These guidelines were modified to utilize criteria contained in the appropriate method. The results for the following quality control (QC) parameters were reviewed:

Organics

Holding Time
GC/MS Instrument Tunes
Initial Calibrations
Continuing Calibrations
Laboratory and Field Blanks
Surrogate Spike Recoveries
Matrix Spikes/Matrix Spike Duplicates
Laboratory Control Samples
Internal Standards
Quantitation Limits

Inorganics

Holding Times
Calibrations
Laboratory and Field Blanks
ICP Interference Check Samples
Matrix Spikes
Laboratory Control Sample
Matrix Spikes/Matrix Spike Duplicates
ICP Serial Dilutions
Quantitation Limits

Qualifier codes have been placed next to results so that the data user can assess the qualitative and/or quantitative reliability of the results. The qualified analytical data can be found in Attachment A. Definitions of the qualifier codes used during validation are as follows:

- U - The analyte was analyzed for, but not detected above the reported sample quantitation limit.
- J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality criteria. The presence or absence of the analyte cannot be verified.

The following sections of this report provide a critical review of the laboratory analyses and reported analytical results. Quality assurance reviews of laboratory-generated data routinely identify various problems associated with analytical measurements, even from the most-experienced and capable laboratories. The following sections discuss only deviations from analytical methodologies and data validation criteria. If a QC parameter as listed above is not discussed, method and laboratory specific criteria have been met. The qualified analytical data is included in Attachment A.

1.0 VOLATILE ORGANIC COMPOUNDS

Five soil samples, twelve water samples, and two trip blanks were collected and analyzed for volatile organics compounds using SW-846 Method 8260.

1.1 Sample Receipt

Soil samples collected June 12, 2001 were received at the laboratory outside the 4 ± 2 °C criteria. The laboratory reported a sample receipt temperature of 9 °C. Samples associated with the high sample receipt temperature were qualified estimated (UJ and J) and are considered to have a potential for low bias. Result qualified include:

TP-01-01(5')	TP-01-02(14')	TP-01-03(13')	TP-01-04(13.5')
TP-01-07(6-8')			

1.2 Initial Calibration

Acetone exceeded the data validation Relative Standard Deviation (RSD) criteria of 30 percent for initial calibration. The laboratory reported an RSD for acetone of 36.1 percent. Associated acetone results were qualified estimated (UJ and J).

1.3 Continuing Calibrations

Table 2 summarizes continuing calibration exceedances and the results qualified. Associated results were qualified estimated (UJ and J) if the 25 percent difference continuing calibration data validation criteria was exceeded.

1.4 Laboratory Blanks

Table 3 summarizes contaminants detected in laboratory blanks and the results qualified. The 10 times rule was used to determine action limits for common lab contaminants (i.e., methylene chloride), while the five times rule was used for other compounds. Sample concentrations within 5 or 10 times the associated laboratory blank concentration were qualified as undetected (U). In addition, values less than the reporting limit were raised to the reporting limit and qualified undetected (U) in accordance with validation guidelines. Sample dilutions and sample prep volumes were taken into consideration during data qualification. Results qualified as undetected (U) due to laboratory contamination are considered as false positives.

1.5 Quantitation Limits

Eight samples were diluted due to high concentrations of target compounds. These sample dilutions resulted in elevated detection limits.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

Five soil samples were collected and analyzed for semivolatile organics compounds using SW-846 Method 8270.

2.1 Sample Receipt

Soil samples collected June 12, 2001 were received at the laboratory outside the 4 ± 2 °C criteria. The laboratory reported a sample receipt temperature of 9 °C. Samples associated with the high sample receipt temperature were qualified estimated (UJ and J) and are considered to have a potential for low bias. Result qualified include:

TP-01-01(5')	TP-01-02(14')	TP-01-03(13')	TP-01-04(13.5')
TP-01-07(6-8')			

2.2 Initial Calibration

2,4-Dinitrophenol, 4-nitrophenol, carbazole, and 3,3'-dichlorobenzidine exceeded the data validation RSD criteria of 30 percent for initial calibrations. Associated 2,4-dinitrophenol, 4-nitrophenol, carbazole, and 3,3'-dichlorobenzidine results were qualified estimated (UJ and J).

2.3 Matrix Spike/Matrix Spike Duplicates

The spiked sample TP-01-04(13.5') had no recovery of 4-nitrophenol during MS/MSD analysis. The 4-nitrophenol result for the unspiked sample was a nondetect and qualified rejected (R) due to the inability to recover this compound during MS/MSD analysis.

The spiked sample TP-01-04(13.5') had high phenol recoveries during MS/MSD analysis. The laboratory reported recoveries of 104 and 99 percent, while the acceptable recovery range is 26-90 percent. Only positive results are qualified due to high recoveries. Phenol was not detected in the unspiked sample and did not require qualification.

3.0 PESTICIDES AND PCBs

Three soil samples were collected and analyzed for pesticides and PCBs using SW-846 Methods 8081 and 8082.

3.1 Sample Receipt

Soil samples collected June 12, 2001 were received at the laboratory outside the 4 ± 2 °C criteria. The laboratory reported a sample receipt temperature of 9 °C. Pesticide samples associated with the high sample receipt temperature were qualified estimated (UJ and J) and are considered to have a potential for low bias. Result qualified include:

TP-01-01(5')

TP-01-03(13')

TP-01-07(6-8')

3.2 Surrogate Recoveries

The laboratory reported high recoveries for the surrogate tetrachloro-m-xylene on the primary analytical column. These recoveries ranged from 270 to 1982 percent. The high recoveries also occurred in the extraction blank and the blank spike indicating a systematic problem. Pesticide results were previously qualified due a high sample receipt temperature and further qualifications were not made.

3.3 Quantitation

The detects of alpha-BHC, beta-BHC, and aldrin in sample TP-01-01(5') exceeded the 25 percent difference criteria for dual column analyses. These results were previously qualified due to a high sample receipt temperature and further qualifications were not made.

4.0 METALS

Three soil samples were collected and analyzed for metals using SW-846 Methods.

4.1 CRDL Standard Recovery

Thallium had a high CRDL standard recovery. The laboratory reported a recovery of 138.4 percent, while the acceptable recovery range is 70 to 130 percent. Samples TP-01-03(13') and TP-01-07(6-8') reported positive thallium results within five times the CRDL concentration. These thallium results were qualified undetected (U) due to blank contamination as discussed in Section 4.2 and further qualifications were not made.

4.2 Method Blanks

The table below summarizes the maximum concentration detected in the blanks and the associated Action Level for each analyte. Results within the action level were qualified undetected (U) and are considered false positives due to laboratory contamination. Associated nondetect values or values over the Action Level did not require qualification. Dry weight calculations were taken into consideration during data qualification.

Analyte	Maximum Blank Concentration	Soil Action Level (mg/Kg)	Samples Qualified U
Aluminum	16.9 ug/L	16.9	None
Antimony	5.0 ug/L	5	None
Cadmium	0.049 mg/Kg	0.245	None
Calcium	2.653 mg/Kg	13.265	None
Iron	1.968 mg/Kg	9.84	None
Magnesium	7.9 ug/L	7.9	None
Mercury	0.066 mg/Kg	0.33	TP-01-01(5') TP-01-03(13') TP-01-07(6-8')
Nickel	0.140 mg/Kg	0.70	None
Potassium	1.674 mg/Kg	8.37	None
Selenium	0.662 mg/Kg	3.31	None
Thallium	6.7 ug/L	6.7	TP-01-03(13')TP-01-07(6-8')

4.3 Interference Check Sample

Calcium and iron had low recoveries during analysis of the interference check sample. The laboratory reported calcium recoveries of 76.2 and 76.1 percent and iron recoveries of 58.8 and 62.6 percent. The acceptable recovery range is 80 to 120 percent. Samples are potentially affected by the interference if the concentrations of the interferent are present in the sample at a concentration of 75 percent or greater than that present in the ICS. The calcium concentration for sample TP-01-03(13') was the only sample interferent concentration greater than 75 percent of the ICS concentration and this value was qualified estimated (J).

4.4 Matrix Spikes

Sample TP-01-01(5') had low recoveries of antimony and selenium. The laboratory reported recoveries of 29.8 and 72.6 percent, respectively, while the acceptable recovery range is 75 to 125 percent. Associated antimony results were nondetects and qualified rejected (R) since the recovery fell below the 30 percent data validation criteria. Selenium results were also nondetects and qualified estimated (UJ).

4.5 Laboratory Duplicates

The laboratory duplicate for sample TP-01-01(5') had a high RPD for lead. The laboratory reported an RPD of 35.6 percent, while the acceptable RPD limit is 35 percent. Associated lead results were positive values and qualified estimated (J).

4.6 Serial Dilutions

ICP serial dilution results for iron, magnesium, nickel, potassium, and zinc exceeded the 10 percent difference criteria. Associated positive results were qualified estimated (J).

5.0 OVERALL ASSESSMENT

Samples collected during this sampling event were successfully analyzed and are acceptable for project use, with the exception of one SVOC result and three antimony results rejected due to extremely low MS/MSD recoveries. In addition, results were qualified as estimated (UJ or J) due to noncompliant QC results. Results qualified as estimated are usable, however, sample bias may be associated with these results.

TABLE 2
CONTINUING CALIBRATION EXCEEDANCES
SUPPLEMENTAL SUBSURFACE INVESTIGATION
GLENVILLE ENERGY PARK (GEP)
GLENVILLE, NEW YORK

Analysis Date	Compound	RPD	RPD Limit	Results Qualified
6/20/01	Bromomethane	36.4	25	Results qualified UJ and J: GEP-2 TP-01-01(5') TP-01-02(14') TP-01-03(13') TP-01-04(13.5') TP-01-07(6-8') TB-1
	Acetone	34.7	25	
	2-Butanone	38.8	25	
	2-Hexanone	26.1	25	
6/21/01	Bromomethane	40.2	25	Results qualified UJ and J: GEP-1 GEP-1(2) GEP-2(2) MW-6 MW-7 MW-99-14 MW-99-16 TB-2
	Acetone	69.1	25	
	2-Butanone	56.0	25	
	2-Hexanone	48.9	25	
6/22/01	Chloromethane	29.0	25	Results qualified UJ and J: GEP-3 GEP-4 MW-13 MW-99-15 TB3
	Acetone	63.5	25	
	2-Butanone	47.5	25	
	2-Hexanone	33.8	25	
NOTES:				
RPD	Relative Percent Difference			
J	Estimated			
UJ	Quantitation limit estimated			

TABLE 3

**CONTAMINANTS DETECTED IN LABORATORY BLANKS
SUPPLEMENTAL SUBSURFACE INVESTIGATION
GLENVILLE ENERGY PARK (GEP)
GLENVILLE, NEW YORK**

Blank ID	Date Analyzed	Compound Detected	Concentration	Results Qualified U	
VBLK01	6/20/01	Methylene Chloride	5 J ug/Kg	TP-01-02(14')	TB-1
		Chloroform	1 J ug/Kg	TP-01-03(13')	GEP-2
VBLK02	6/21/01	Methylene Chloride	2 J ug/L	GEP-1	GEP-1(2) TB-2
		Chloroform	4 J ug/L	GEP-1	GEP-2(2) MW-6
VBLK03	6/22/01	Methylene Chloride	2 J ug/L	GEP-4	
		Chloroform	3 J ug/L	GEP-3 MW-99-15	MW-13 TB3
PBLKE1	6/27/01	gamma-Chlordane	0.12 J ug/Kg	Not detected in associated samples, results not qualified.	
NOTES:					
U	Undetected				
J	Estimated				

TABLE 1
SAMPLES COLLECTED
SUPPLEMENTAL SUBSURFACE INVESTIGATION
GLENVILLE ENERGY PARK (GEP)
GLENVILLE, NEW YORK

Field ID	Date Collected	Lab ID	Parameter
GEP-1	6/14/01	010614AO-02	VOCs
GEP-1(2)	6/20/01	010620BN-02	VOCs
GEP-2	6/14/01	010614AO-01	VOCs
GEP-2(2)	6/20/01	010620BN-05	VOCs
GEP-3	6/19/01	010620E-05	VOCs
GEP-4	6/20/01	010620BN-04	VOCs
MW-6	6/19/01	010620E-01	VOCs
MW-7	6/19/01	010620E-02	VOCs
MW-13	6/20/01	010620BN-01	VOCs
MW-99-14	6/19/01	010620E-03	VOCs
MW-99-15	6/20/01	010620BN-03	VOCs
MW-99-16	6/19/01	010620E-04	VOCs
TP-01-01(5')	6/12/01	010613W-01	VOCs, SVOCs, Pesticides & PCBs, Metals
TP-01-02(14')	6/12/01	010613W-02	VOCs, SVOCs
TP-01-03(13')	6/12/01	010613W-03	VOCs, SVOCs, Pesticides & PCBs, Metals
TP-01-04(13.5')	6/12/01	010613W-05	VOCs, SVOCs
TP-01-07(6-8')	6/12/01	010613W-04	VOCs, SVOCs, Pesticides & PCBs, Metals
TB-1 Trip Blank	6/14/01	010614AO-03	VOCs
TB-2 Trip Blank	6/19/01	010620E-06	VOCs

TABLE 1 (Continued)

**SAMPLES COLLECTED
SUPPLEMENTAL SUBSURFACE INVESTIGATION
GLENVILLE ENERGY PARK (GEP)
GLENVILLE, NEW YORK**

Field ID	Date Collected	Lab ID	Parameter
TB3 Trip Blank	6/20/01	010620BN-06	VOCs

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-1

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) WATER	SDG No.: GEP-1
Sample wt/vol: 5.000 (g/mL) ML	Lab Sample ID: TB-1
Level: (low/med) LOW	Lab File ID: D0811
% Moisture: not dec.	Date Received: 06/14/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/20/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

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

74-87-3-----	Chloromethane	10.	U
74-83-9-----	Bromomethane	10.	U ^T
75-01-4-----	Vinyl Chloride	10.	U
75-00-3-----	Chloroethane	10.	U
75-09-2-----	Methylene Chloride	5 ^T	U ^T
67-64-1-----	Acetone	10.	U ^T
75-15-0-----	Carbon Disulfide	5.	U
75-35-4-----	1,1-Dichloroethene	5.	U
75-34-3-----	1,1-Dichloroethane	5.	U
156-60-5-----	1,2-Dichloroethene-trans	5.	U
67-66-3-----	Chloroform	5.	U
107-06-2-----	1,2-Dichloroethane	5.	U
78-93-3-----	2-Butanone	10.	U ^T
71-55-6-----	1,1,1-Trichloroethane	5.	U
56-23-5-----	Carbon Tetrachloride	5.	U
75-27-4-----	Bromodichloromethane	5.	U
78-87-5-----	1,2-Dichloropropane	5.	U
10061-01-5-----	cis-1,3-Dichloropropene	5.	U
79-01-6-----	Trichloroethene	5.	U
124-48-1-----	Dibromochloromethane	5.	U
79-00-5-----	1,1,2-Trichloroethane	5.	U
71-43-2-----	Benzene	5.	U
10061-02-6-----	trans-1,3-Dichloropropene	5.	U
75-25-2-----	Bromoform	5.	U
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	U ^T
127-18-4-----	Tetrachloroethene	5.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	U
108-88-3-----	Toluene	5.	U
108-90-7-----	Chlorobenzene	5.	U
100-41-4-----	Ethylbenzene	5.	U
100-42-5-----	Styrene	5.	U
156-59-2-----	1,2-Dichloroethene-cis	5.	U
106-42-3-----	m,p-Xylenes	5.	U
95-47-6-----	o-Xylene	5.	U

FORM I VOA

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GEP-1

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) WATER	SDG No.: GEP-1
Sample wt/vol: 1.000 (g/mL) ML	Lab Sample ID: GEP-1
Level: (low/med) LOW	Lab File ID: D823A
% Moisture: not dec.	Date Received: 06/14/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/21/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	50.	U
74-83-9	-----Bromomethane	50.	UJ
75-01-4	-----Vinyl Chloride	50.	U
75-00-3	-----Chloroethane	50.	U
75-09-2	-----Methylene Chloride	25 12	U
67-64-1	-----Acetone	50.	U
75-15-0	-----Carbon Disulfide	25.	U
75-35-4	-----1,1-Dichloroethene	25.	U
75-34-3	-----1,1-Dichloroethane	25.	U
156-60-5	-----1,2-Dichloroethene-trans	25.	U
67-66-3	-----Chloroform	25 20	U
107-06-2	-----1,2-Dichloroethane	25.	U
78-93-3	-----2-Butanone	50.	U
71-55-6	-----1,1,1-Trichloroethane	7.	J
56-23-5	-----Carbon Tetrachloride	25.	U
75-27-4	-----Bromodichloromethane	25.	U
78-87-5	-----1,2-Dichloropropane	25.	U
10061-01-5	-----cis-1,3-Dichloropropene	25.	U
79-01-6	-----Trichloroethene	350.	
124-48-1	-----Dibromochloromethane	25.	U
79-00-5	-----1,1,2-Trichloroethane	25.	U
71-43-2	-----Benzene	25.	U
10061-02-6	-----trans-1,3-Dichloropropene	25.	U
75-25-2	-----Bromoform	25.	U
108-10-1	-----4-Methyl-2-Pentanone	50.	U
591-78-6	-----2-Hexanone	50.	U
127-18-4	-----Tetrachloroethene	25.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	25.	U
108-88-3	-----Toluene	25.	U
108-90-7	-----Chlorobenzene	25.	U
100-41-4	-----Ethylbenzene	25.	U
100-42-5	-----Styrene	25.	U
156-59-2	-----1,2-Dichloroethene-cis	25.	U
106-42-3	-----m,p-Xylenes	25.	U
95-47-6	-----o-Xylene	25.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GEP-2

Lab Name: AES, Inc.	Contract:	SDG No.: GEP-1
Lab Code: AES	Case No.: ET0110	SAS No.:
Matrix: (soil/water) WATER		Lab Sample ID: GEP-2
Sample wt/vol: 1.000 (g/mL) ML		Lab File ID: D0809
Level: (low/med) LOW		Date Received: 06/14/01
% Moisture: not dec. _____		Date Analyzed: 06/20/01
GC Column: RTX502.2 ID: .32 (mm)		Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)

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

74-87-3-----Chloromethane	50.	U
74-83-9-----Bromomethane	50.	U
75-01-4-----Vinyl Chloride	50.	U
75-00-3-----Chloroethane	50.	U
75-09-2-----Methylene Chloride	25.	U
67-64-1-----Acetone	50.	U
75-15-0-----Carbon Disulfide	25.	U
75-35-4-----1,1-Dichloroethene	25.	U
75-34-3-----1,1-Dichloroethane	25.	U
156-60-5-----1,2-Dichloroethene-trans	25.	U
67-66-3-----Chloroform	25.8	U
107-06-2-----1,2-Dichloroethane	25.	U
78-93-3-----2-Butanone	50.	U
71-55-6-----1,1,1-Trichloroethane	44.	
56-23-5-----Carbon Tetrachloride	25.	U
75-27-4-----Bromodichloromethane	25.	U
78-87-5-----1,2-Dichloropropane	25.	U
10061-01-5-----cis-1,3-Dichloropropene	25.	U
79-01-6-----Trichloroethene	530.	
124-48-1-----Dibromochloromethane	25.	U
79-00-5-----1,1,2-Trichloroethane	25.	U
71-43-2-----Benzene	25.	U
10061-02-6-----trans-1,3-Dichloropropene	25.	U
75-25-2-----Bromoform	25.	U
108-10-1-----4-Methyl-2-Pentanone	50.	U
591-78-6-----2-Hexanone	50.	U
127-18-4-----Tetrachloroethene	25.	U
79-34-5-----1,1,2,2-Tetrachloroethane	25.	U
108-88-3-----Toluene	25.	U
108-90-7-----Chlorobenzene	25.	U
100-41-4-----Ethylbenzene	25.	U
100-42-5-----Styrene	25.	U
156-59-2-----1,2-Dichloroethene-cis	25.	U
106-42-3-----m,p-Xylenes	25.	U
95-47-6-----o-Xylene	25.	U

Form 1- VOC Results
(June 20, 2001 Groundwater Sampling)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GEP-1(2)

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) WATER	SDG No.: GEP-1
Sample wt/vol: 1.000 (g/mL) ML	Lab Sample ID: GEP-1(2)
Level: (low/med) LOW	Lab File ID: D0839
% Moisture: not dec. _____	Date Received: 06/20/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/21/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

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

CAS NO. COMPOUND Q

74-87-3-----	Chloromethane	50.	U
74-83-9-----	Bromomethane	50.	UJ
75-01-4-----	Vinyl Chloride	50.	U
75-00-3-----	Chloroethane	50.	U
75-09-2-----	Methylene Chloride	25-14	UJ
67-64-1-----	Acetone	50.	UJ
75-15-0-----	Carbon Disulfide	25.	U
75-35-4-----	1,1-Dichloroethene	25.	U
75-34-3-----	1,1-Dichloroethane	25.	U
156-60-5-----	1,2-Dichloroethene-trans	25.	U
67-66-3-----	Chloroform	25-16	UJ
107-06-2-----	1,2-Dichloroethane	25.	U
78-93-3-----	2-Butanone	50.	UJ
71-55-6-----	1,1,1-Trichloroethane	10.	J
56-23-5-----	Carbon Tetrachloride	25.	U
75-27-4-----	Bromodichloromethane	25.	U
78-87-5-----	1,2-Dichloropropane	25.	U
10061-01-5-----	cis-1,3-Dichloropropene	25.	U
79-01-6-----	Trichloroethene	480.	
124-48-1-----	Dibromochloromethane	25.	U
79-00-5-----	1,1,2-Trichloroethane	25.	U
71-43-2-----	Benzene	25.	U
10061-02-6-----	trans-1,3-Dichloropropene	25.	U
75-25-2-----	Bromoform	25.	U
108-10-1-----	4-Methyl-2-Pentanone	50.	U
591-78-6-----	2-Hexanone	50.	UJ
127-18-4-----	Tetrachloroethene	25.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	25.	U
108-88-3-----	Toluene	25.	U
108-90-7-----	Chlorobenzene	25.	U
100-41-4-----	Ethylbenzene	25.	U
100-42-5-----	Styrene	25.	U
156-59-2-----	1,2-Dichloroethene-cis	25.	U
106-42-3-----	m,p-Xylenes	25.	U
95-47-6-----	o-Xylene	25.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GEP-2 (2)

Lab Name: AES, Inc. Lab Code: AES Matrix: (soil/water) WATER Sample wt/vol: 1.000 (g/mL) ML Level: (low/med) LOW % Moisture: not dec. GC Column: RTX502.2 ID: .32 (mm) Soil Extract Volume: (uL)	Contract: Case No.: ET0110 SAS No.: SDG No.: GEP-1 Lab Sample ID: GEP-2(2) Lab File ID: D0842 Date Received: 06/20/01 Date Analyzed: 06/21/01 Dilution Factor: 1.0 Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	50.	U
74-83-9-----	Bromomethane	50.	UJ
75-01-4-----	Vinyl Chloride	50.	U
75-00-3-----	Chloroethane	50.	U
75-09-2-----	Methylene Chloride	25 15	BJU
67-64-1-----	Acetone	50.	UJ
75-15-0-----	Carbon Disulfide	25.	U
75-35-4-----	1,1-Dichloroethene	25.	U
75-34-3-----	1,1-Dichloroethane	25.	U
156-60-5-----	1,2-Dichloroethene-trans	25.	U
67-66-3-----	Chloroform	25 15	BJU
107-06-2-----	1,2-Dichloroethane	25.	U
78-93-3-----	2-Butanone	50.	UJ
71-55-6-----	1,1,1-Trichloroethane	57.	
56-23-5-----	Carbon Tetrachloride	25.	U
75-27-4-----	Bromodichloromethane	25.	U
78-87-5-----	1,2-Dichloropropane	25.	U
10061-01-5-----	cis-1,3-Dichloropropene	25.	U
79-01-6-----	Trichloroethene	880.	
124-48-1-----	Dibromochloromethane	25.	U
79-00-5-----	1,1,2-Trichloroethane	25.	U
71-43-2-----	Benzene	25.	U
10061-02-6-----	trans-1,3-Dichloropropene	25.	U
75-25-2-----	Bromoform	25.	U
108-10-1-----	4-Methyl-2-Pentanone	50.	U
591-78-6-----	2-Hexanone	50.	UJ
127-18-4-----	Tetrachloroethene	25.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	25.	U
108-88-3-----	Toluene	25.	U
108-90-7-----	Chlorobenzene	25.	U
100-41-4-----	Ethylbenzene	25.	U
100-42-5-----	Styrene	25.	U
156-59-2-----	1,2-Dichloroethene-cis	25.	U
106-42-3-----	m,p-Xylenes	25.	U
95-47-6-----	o-Xylene	25.	U

FORM I VOA

3/90.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GEP-3

Lab Name: AES, Inc.	Contract:	SDG No.: GEP-1
Lab Code: AES	Case No.: ET0110	SAS No.:
Matrix: (soil/water) WATER		Lab Sample ID: GEP-3
Sample wt/vol: 2.500 (g/mL) ML		Lab File ID: D0845
Level: (low/med) LOW		Date Received: 06/20/01
% Moisture: not dec.		Date Analyzed: 06/22/01
GC Column: RTX502.2 ID: .32 (mm)		Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	20.	U
74-83-9	-----Bromomethane	20.	U
75-01-4	-----Vinyl Chloride	20.	U
75-00-3	-----Chloroethane	20.	U
75-09-2	-----Methylene Chloride	10.	U
67-64-1	-----Acetone	20.	U
75-15-0	-----Carbon Disulfide	10.	U
75-35-4	-----1,1-Dichloroethene	10.	U
75-34-3	-----1,1-Dichloroethane	10.	U
156-60-5	-----1,2-Dichloroethene-trans	10.	U
67-66-3	-----Chloroform	10.	U
107-06-2	-----1,2-Dichloroethane	10.	U
78-93-3	-----2-Butanone	20.	U
71-55-6	-----1,1,1-Trichloroethane	2.	U
56-23-5	-----Carbon Tetrachloride	10.	U
75-27-4	-----Bromodichloromethane	10.	U
78-87-5	-----1,2-Dichloropropane	10.	U
10061-01-5	-----cis-1,3-Dichloropropene	10.	U
79-01-6	-----Trichloroethene	240.	U
124-48-1	-----Dibromochloromethane	10.	U
79-00-5	-----1,1,2-Trichloroethane	10.	U
71-43-2	-----Benzene	10.	U
10061-02-6	-----trans-1,3-Dichloropropene	10.	U
75-25-2	-----Bromoform	10.	U
108-10-1	-----4-Methyl-2-Pentanone	20.	U
591-78-6	-----2-Hexanone	20.	U
127-18-4	-----Tetrachloroethene	10.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10.	U
108-88-3	-----Toluene	10.	U
108-90-7	-----Chlorobenzene	10.	U
100-41-4	-----Ethylbenzene	10.	U
100-42-5	-----Styrene	10.	U
156-59-2	-----1,2-Dichloroethene-cis	10.	U
106-42-3	-----m,p-Xylenes	10.	U
95-47-6	-----o-Xylene	10.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

GEP-4

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) WATER	SDG No.: GEP-1
Sample wt/vol: 1.000 (g/mL) ML	Lab Sample ID: GEP-4
Level: (low/med) LOW	Lab File ID: D0848
% Moisture: not dec.	Date Received: 06/20/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/22/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	50.	UJ
74-83-9	-----Bromomethane	50.	U
75-01-4	-----Vinyl Chloride	50.	U
75-00-3	-----Chloroethane	50.	U
75-09-2	-----Methylene Chloride	25 14	BJU
67-64-1	-----Acetone	50.	UJ
75-15-0	-----Carbon Disulfide	25.	U
75-35-4	-----1,1-Dichloroethene	25.	U
75-34-3	-----1,1-Dichloroethane	25.	U
156-60-5	-----1,2-Dichloroethene-trans	25.	U
67-66-3	-----Chloroform	25 22	BJU
107-06-2	-----1,2-Dichloroethane	25.	U
78-93-3	-----2-Butanone	50.	UJ
71-55-6	-----1,1,1-Trichloroethane	22.	J
56-23-5	-----Carbon Tetrachloride	25.	U
75-27-4	-----Bromodichloromethane	25.	U
78-87-5	-----1,2-Dichloropropane	25.	U
10061-01-5	-----cis-1,3-Dichloropropene	25.	U
79-01-6	-----Trichloroethene	540.	
124-48-1	-----Dibromochloromethane	25.	U
79-00-5	-----1,1,2-Trichloroethane	25.	U
71-43-2	-----Benzene	25.	U
10061-02-6	-----trans-1,3-Dichloropropene	25.	U
75-25-2	-----Bromoform	25.	U
108-10-1	-----4-Methyl-2-Pentanone	50.	U
591-78-6	-----2-Hexanone	50.	UJ
127-18-4	-----Tetrachloroethene	25.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	25.	U
108-88-3	-----Toluene	25.	U
108-90-7	-----Chlorobenzene	25.	U
100-41-4	-----Ethylbenzene	25.	U
100-42-5	-----Styrene	25.	U
156-59-2	-----1,2-Dichloroethene-cis	25.	U
106-42-3	-----m,p-Xylenes	25.	U
95-47-6	-----o-Xylene	25.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: AES, Inc. Lab Code: AES Matrix: (soil/water) WATER Sample wt/vol: 5.000 (g/mL) ML Level: (low/med) LOW % Moisture: not dec. GC Column: RTX502.2 ID: .32 (mm) Soil Extract Volume: (uL)	Contract: Case No.: ET0110 SAS No.: Lab Sample ID: MW-6 Lab File ID: D0832 Date Received: 06/20/01 Date Analyzed: 06/21/01 Dilution Factor: 1.0 Soil Aliquot Volume: (uL)

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

74-87-3-----Chloromethane	10.	U
74-83-9-----Bromomethane	10.	UJ
75-01-4-----Vinyl Chloride	10.	U
75-00-3-----Chloroethane	10.	U
75-09-2-----Methylene Chloride	5.	U
67-64-1-----Acetone	10.	UJ
75-15-0-----Carbon Disulfide	5.	U
75-35-4-----1,1-Dichloroethene	5.	U
75-34-3-----1,1-Dichloroethane	5.	U
156-60-5-----1,2-Dichloroethene-trans	5.	U
67-66-3-----Chloroform	5.2	UJ
107-06-2-----1,2-Dichloroethane	5.	U
78-93-3-----2-Butanone	10.	UJ
71-55-6-----1,1,1-Trichloroethane	1.	J
56-23-5-----Carbon Tetrachloride	5.	U
75-27-4-----Bromodichloromethane	5.	U
78-87-5-----1,2-Dichloropropane	5.	U
10061-01-5-----cis-1,3-Dichloropropene	5.	U
79-01-6-----Trichloroethene	58.	
124-48-1-----Dibromochloromethane	5.	U
79-00-5-----1,1,2-Trichloroethane	5.	U
71-43-2-----Benzene	5.	U
10061-02-6-----trans-1,3-Dichloropropene	5.	U
75-25-2-----Bromoform	5.	U
108-10-1-----4-Methyl-2-Pentanone	10.	U
591-78-6-----2-Hexanone	10.	UJ
127-18-4-----Tetrachloroethene	5.	U
79-34-5-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3-----Toluene	5.	U
108-90-7-----Chlorobenzene	5.	U
100-41-4-----Ethylbenzene	5.	U
100-42-5-----Styrene	5.	U
156-59-2-----1,2-Dichloroethene-cis	5.	U
106-42-3-----m,p-Xylenes	5.	U
95-47-6-----o-Xylene	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) WATER	SDG No.: GEP-1
Sample wt/vol: 5.000 (g/mL) ML	Lab Sample ID: MW-7
Level: (low/med) LOW	Lab File ID: D0833
% Moisture: not dec.	Date Received: 06/20/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/21/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

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

74-87-3-----	Chloromethane	10.	U
74-83-9-----	Bromomethane	10.	U
75-01-4-----	Vinyl Chloride	10.	U
75-00-3-----	Chloroethane	10.	U
75-09-2-----	Methylene Chloride	5.	U
67-64-1-----	Acetone	10.	U
75-15-0-----	Carbon Disulfide	5.	U
75-35-4-----	1,1-Dichloroethene	5.	U
75-34-3-----	1,1-Dichloroethane	5.	U
156-60-5-----	1,2-Dichloroethene-trans	5.	U
67-66-3-----	Chloroform	5.	U
107-06-2-----	1,2-Dichloroethane	5.	U
78-93-3-----	2-Butanone	10.	U
71-55-6-----	1,1,1-Trichloroethane	5.	U
56-23-5-----	Carbon Tetrachloride	5.	U
75-27-4-----	Bromodichloromethane	5.	U
78-87-5-----	1,2-Dichloropropane	5.	U
10061-01-5-----	cis-1,3-Dichloropropene	5.	U
79-01-6-----	Trichloroethene	5.	U
124-48-1-----	Dibromochloromethane	5.	U
79-00-5-----	1,1,2-Trichloroethane	5.	U
71-43-2-----	Benzene	5.	U
10061-02-6-----	trans-1,3-Dichloropropene	5.	U
75-25-2-----	Bromoform	5.	U
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	U
127-18-4-----	Tetrachloroethene	5.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	U
108-88-3-----	Toluene	5.	U
108-90-7-----	Chlorobenzene	5.	U
100-41-4-----	Ethylbenzene	5.	U
100-42-5-----	Styrene	5.	U
156-59-2-----	1,2-Dichloroethene-cis	5.	U
106-42-3-----	m,p-Xylenes	5.	U
95-47-6-----	o-Xylene	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-13

Lab Name: AES, Inc.	Contract:	
Lab Code: AES	Case No.: ET0110	SAS No.: SDG No.: GEP-1
Matrix: (soil/water) WATER		Lab Sample ID: MW-13
Sample wt/vol: 2.500 (g/mL) ML		Lab File ID: D0846
Level: (low/med) LOW		Date Received: 06/20/01
% Moisture: not dec.		Date Analyzed: 06/22/01
GC Column: RTX502.2 ID: .32 (mm)		Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)		Soil Aliquot Volume: _____ (uL)

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

74-87-3-----	Chloromethane	20.	U
74-83-9-----	Bromomethane	20.	U
75-01-4-----	Vinyl Chloride	20.	U
75-00-3-----	Chloroethane	20.	U
75-09-2-----	Methylene Chloride	10.	U
67-64-1-----	Acetone	20.	U
75-15-0-----	Carbon Disulfide	10.	U
75-35-4-----	1,1-Dichloroethene	10.	U
75-34-3-----	1,1-Dichloroethane	10.	U
156-60-5-----	1,2-Dichloroethene-trans	10.	U
67-66-3-----	Chloroform	107.	U
107-06-2-----	1,2-Dichloroethane	10.	U
78-93-3-----	2-Butanone	20.	U
71-55-6-----	1,1,1-Trichloroethane	8.	U
56-23-5-----	Carbon Tetrachloride	10.	U
75-27-4-----	Bromodichloromethane	10.	U
78-87-5-----	1,2-Dichloropropane	10.	U
10061-01-5-----	cis-1,3-Dichloropropene	10.	U
79-01-6-----	Trichloroethene	230.	U
124-48-1-----	Dibromochloromethane	10.	U
79-00-5-----	1,1,2-Trichloroethane	10.	U
71-43-2-----	Benzene	10.	U
10061-02-6-----	trans-1,3-Dichloropropene	10.	U
75-25-2-----	Bromoform	10.	U
108-10-1-----	4-Methyl-2-Pentanone	20.	U
591-78-6-----	2-Hexanone	20.	U
127-18-4-----	Tetrachloroethene	10.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10.	U
108-88-3-----	Toluene	10.	U
108-90-7-----	Chlorobenzene	10.	U
100-41-4-----	Ethylbenzene	10.	U
100-42-5-----	Styrene	10.	U
156-59-2-----	1,2-Dichloroethene-cis	10.	U
106-42-3-----	m,p-Xylenes	10.	U
95-47-6-----	o-Xylene	10.	U

FORM I VOA

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-99-14

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) WATER	SDG No.: GEP-1
Sample wt/vol: 5.000 (g/mL) ML	Lab Sample ID: MW-99-14
Level: (low/med) LOW	Lab File ID: D0834
% Moisture: not dec.	Date Received: 06/20/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/21/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	5.	U
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	5.	U
75-35-4	-----1,1-Dichloroethene	5.	U
75-34-3	-----1,1-Dichloroethane	5.	U
156-60-5	-----1,2-Dichloroethene-trans	5.	U
67-66-3	-----Chloroform	5.	U
107-06-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	13.	U
56-23-5	-----Carbon Tetrachloride	5.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	8.	U
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
108-10-1	-----4-Methyl-2-Pentanone	10.	U
591-78-6	-----2-Hexanone	10.	U
127-18-4	-----Tetrachloroethene	37.	U
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3	-----Toluene	5.	U
108-90-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-42-5	-----Styrene	5.	U
156-59-2	-----1,2-Dichloroethene-cis	16.	U
106-42-3	-----m,p-Xylenes	5.	U
95-47-6	-----o-Xylene	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-99-15

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) WATER	SDG No.: GEP-1
Sample wt/vol: 2.500 (g/mL) ML	Lab Sample ID: MW-99-15
Level: (low/med) LOW	Lab File ID: D0847
% Moisture: not dec. _____	Date Received: 06/20/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/22/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

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

74-87-3-----Chloromethane	20.	UJ
74-83-9-----Bromomethane	20.	U
75-01-4-----Vinyl Chloride	20.	U
75-00-3-----Chloroethane	20.	U
75-09-2-----Methylene Chloride	10.	U
67-64-1-----Acetone	20.	UJ
75-15-0-----Carbon Disulfide	10.	U
75-35-4-----1,1-Dichloroethene	10.	U
75-34-3-----1,1-Dichloroethane	10.	U
156-60-5-----1,2-Dichloroethene-trans	10.	U
67-66-3-----Chloroform	10.	U
107-06-2-----1,2-Dichloroethane	10.	U
78-93-3-----2-Butanone	20.	UJ
71-55-6-----1,1,1-Trichloroethane	7.	J
56-23-5-----Carbon Tetrachloride	10.	U
75-27-4-----Bromodichloromethane	10.	U
78-87-5-----1,2-Dichloropropane	10.	U
10061-01-5-----cis-1,3-Dichloropropene	10.	U
79-01-6-----Trichloroethene	210.	
124-48-1-----Dibromochloromethane	10.	U
79-00-5-----1,1,2-Trichloroethane	10.	U
71-43-2-----Benzene	10.	U
10061-02-6-----trans-1,3-Dichloropropene	10.	U
75-25-2-----Bromoform	10.	U
108-10-1-----4-Methyl-2-Pentanone	20.	U
591-78-6-----2-Hexanone	20.	UJ
127-18-4-----Tetrachloroethene	10.	U
79-34-5-----1,1,2,2-Tetrachloroethane	10.	U
108-88-3-----Toluene	10.	U
108-90-7-----Chlorobenzene	10.	U
100-41-4-----Ethylbenzene	10.	U
100-42-5-----Styrene	10.	U
156-59-2-----1,2-Dichloroethene-cis	10.	U
106-42-3-----m,p-Xylenes	10.	U
95-47-6-----o-Xylene	10.	U

FORM I VOA

3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-99-16

Lab Name: AES, Inc.	Contract:
Lab Code: AES	Case No.: ET0110 SAS No.:
Matrix: (soil/water) WATER	SDG No.: GEP-1
Sample wt/vol: 5.000 (g/mL) ML	Lab Sample ID: MW-99-16
Level: (low/med) LOW	Lab File ID: D0835
% Moisture: not dec.	Date Received: 06/20/01
GC Column: RTX502.2 ID: .32 (mm)	Date Analyzed: 06/21/01
Soil Extract Volume: _____ (uL)	Dilution Factor: 1.0
	Soil Aliquot Volume: _____ (uL)

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

74-87-3-----Chloromethane	10.	u
74-83-9-----Bromomethane	10.	u
75-01-4-----Vinyl Chloride	10.	u
75-00-3-----Chloroethane	10.	u
75-09-2-----Methylene Chloride	5.	u
67-64-1-----Acetone	10.	u
75-15-0-----Carbon Disulfide	5.	u
75-35-4-----1,1-Dichloroethene	5.	u
75-34-3-----1,1-Dichloroethane	5.	u
156-60-5-----1,2-Dichloroethene-trans	5.	u
67-66-3-----Chloroform	5.	u
107-06-2-----1,2-Dichloroethane	5.	u
78-93-3-----2-Butanone	10.	u
71-55-6-----1,1,1-Trichloroethane	5.	u
56-23-5-----Carbon Tetrachloride	5.	u
75-27-4-----Bromodichloromethane	5.	u
78-87-5-----1,2-Dichloropropane	5.	u
10061-01-5-----cis-1,3-Dichloropropene	5.	u
79-01-6-----Trichloroethene	5.	u
124-48-1-----Dibromochloromethane	5.	u
79-00-5-----1,1,2-Trichloroethane	5.	u
71-43-2-----Benzene	5.	u
10061-02-6-----trans-1,3-Dichloropropene	5.	u
75-25-2-----Bromoform	5.	u
108-10-1-----4-Methyl-2-Pentanone	10.	u
591-78-6-----2-Hexanone	10.	u
127-18-4-----Tetrachloroethene	5.	u
79-34-5-----1,1,2,2-Tetrachloroethane	5.	u
108-88-3-----Toluene	5.	u
108-90-7-----Chlorobenzene	5.	u
100-41-4-----Ethylbenzene	5.	u
100-42-5-----Styrene	5.	u
156-59-2-----1,2-Dichloroethene-cis	5.	u
106-42-3-----m,p-Xylenes	5.	u
95-47-6-----o-Xylene	5.	u

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-2

Lab Name: AES, Inc. Lab Code: AES Case No.: ET0110 Matrix: (soil/water) WATER Sample wt/vol: 5.000 (g/mL) ML Level: (low/med) LOW % Moisture: not dec. GC Column: RTX502.2 ID: .32 (mm) Soil Extract Volume: _____ (uL)	Contract: SAS No.: _____ SDG No.: GEP-1 Lab Sample ID: TB-2 Lab File ID: D0837 Date Received: 06/20/01 Date Analyzed: 06/21/01 Dilution Factor: 1.0 Soil Aliquot Volume: _____ (uL)

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

74-87-3-----	Chloromethane	10.	U
74-83-9-----	Bromomethane	10.	U
75-01-4-----	Vinyl Chloride	10.	U
75-00-3-----	Chloroethane	10.	U
75-09-2-----	Methylene Chloride	54.	U
67-64-1-----	Acetone	10.	U
75-15-0-----	Carbon Disulfide	5.	U
75-35-4-----	1,1-Dichloroethene	5.	U
75-34-3-----	1,1-Dichloroethane	5.	U
156-60-5-----	1,2-Dichloroethene-trans	5.	U
67-66-3-----	Chloroform	5.	U
107-06-2-----	1,2-Dichloroethane	5.	U
78-93-3-----	2-Butanone	10.	U
71-55-6-----	1,1,1-Trichloroethane	5.	U
56-23-5-----	Carbon Tetrachloride	5.	U
75-27-4-----	Bromodichloromethane	5.	U
78-87-5-----	1,2-Dichloropropane	5.	U
10061-01-5-----	cis-1,3-Dichloropropene	5.	U
79-01-6-----	Trichloroethene	5.	U
124-48-1-----	Dibromochloromethane	5.	U
79-00-5-----	1,1,2-Trichloroethane	5.	U
71-43-2-----	Benzene	5.	U
10061-02-6-----	trans-1,3-Dichloropropene	5.	U
75-25-2-----	Bromoform	5.	U
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	U
127-18-4-----	Tetrachloroethene	5.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	U
108-88-3-----	Toluene	5.	U
108-90-7-----	Chlorobenzene	5.	U
100-41-4-----	Ethylbenzene	5.	U
100-42-5-----	Styrene	5.	U
156-59-2-----	1,2-Dichloroethene-cis	5.	U
106-42-3-----	m,p-Xylenes	5.	U
95-47-6-----	o-Xylene	5.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB3

Lab Name: AES, Inc.	Contract:	SDG No.: GEP-1
Lab Code: AES	Case No.: ET0110	SAS No.:
Matrix: (soil/water) WATER		Lab Sample ID: TB3
Sample wt/vol: 5.000 (g/mL) ML		Lab File ID: D0849
Level: (low/med) LOW		Date Received: 06/20/01
% Moisture: not dec.		Date Analyzed: 06/22/01
GC Column: RTX502.2 ID: .32 (mm)		Dilution Factor: 1.0
Soil Extract Volume: (uL)		Soil Aliquot Volume: (uL)

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

74-87-3-----	Chloromethane	10.	U
74-83-9-----	Bromomethane	10.	U
75-01-4-----	Vinyl Chloride	10.	U
75-00-3-----	Chloroethane	10.	U
75-09-2-----	Methylene Chloride	5.	U
67-64-1-----	Acetone	10.	U
75-15-0-----	Carbon Disulfide	5.	U
75-35-4-----	1,1-Dichloroethene	5.	U
75-34-3-----	1,1-Dichloroethane	5.	U
156-60-5-----	1,2-Dichloroethene-trans	5.	U
67-66-3-----	Chloroform	5.	U
107-06-2-----	1,2-Dichloroethane	5.	U
78-93-3-----	2-Butanone	10.	U
71-55-6-----	1,1,1-Trichloroethane	5.	U
56-23-5-----	Carbon Tetrachloride	5.	U
75-27-4-----	Bromodichloromethane	5.	U
78-87-5-----	1,2-Dichloropropane	5.	U
10061-01-5-----	cis-1,3-Dichloropropene	5.	U
79-01-6-----	Trichloroethene	5.	U
124-48-1-----	Dibromochloromethane	5.	U
79-00-5-----	1,1,2-Trichloroethane	5.	U
71-43-2-----	Benzene	5.	U
10061-02-6-----	trans-1,3-Dichloropropene	5.	U
75-25-2-----	Bromoform	5.	U
108-10-1-----	4-Methyl-2-Pentanone	10.	U
591-78-6-----	2-Hexanone	10.	U
127-18-4-----	Tetrachloroethene	5.	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5.	U
108-88-3-----	Toluene	5.	U
108-90-7-----	Chlorobenzene	5.	U
100-41-4-----	Ethylbenzene	5.	U
100-42-5-----	Styrene	5.	U
156-59-2-----	1,2-Dichloroethene-cis	5.	U
106-42-3-----	m,p-Xylenes	5.	U
95-47-6-----	o-Xylene	5.	U