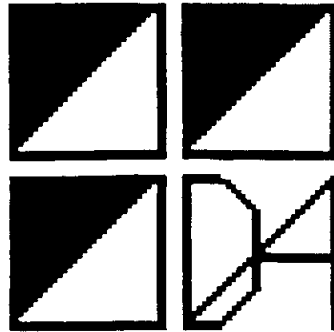


SITE INVESTIGATION REPORT

Site Name:

**GOWANDA DAY HABILITATION CENTER
4 Industrial Place
Town of Persia, Cattaraugus County
Voluntary Cleanup Agreement V-00463-9**

Prepared for:



**Dormitory Authority of the State of New York
And
New York State Office of Mental Retardation and Developmental Disabilities**

JDE Project # 151050999



**B E R G M A N N
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April 2003

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GOWANDA DAY HABILITATION CENTER
Town of Persia, Cattaraugus County, New York
VCA # V-00463-9

SITE INVESTIGATION

1.0 INTRODUCTION

1.1 Background

This Site Investigation (SI) Report was prepared by Bergmann Associates (Bergmann) on behalf of the Dormitory Authority of the State of New York (DASNY) and the New York State Office of Mental Retardation and Developmental Disabilities (OMRDD).

Bergmann was authorized by DASNY and the OMRDD to conduct a site investigation at the Gowanda Day Habilitation Center building located at 4 Industrial Place in the Town of Persia, Cattaraugus County, New York 14070. OMRDD, as the volunteer, has entered into a VCA agreement with the NYSDEC to conduct this investigation in accordance with VCA Site # V-00463-9, effective August 16, 2001.

Bergmann conducted the site investigation in accordance with the Investigation Work Plan for a Voluntary Cleanup Program Site Investigation, dated October 29, 2001. This plan was approved by the NYSDEC in a letter dated January 28, 2002, with minor revisions.

The potential for on-site contamination at the Gowanda Day Habilitation Center subject parcel was evaluated in the Bergmann Soil Gas Investigation Summary Report dated July 14, 2000, and the Bergmann Subsurface Investigation and Indoor Air Quality Summary Report dated February 26, 2001. The previous investigations at the subject parcel indicated the presence of volatile organic compounds in soil gas samples inside the building and also in soil and groundwater samples adjacent to the structure.

1.2 Objectives

The objectives of the SI were to define hydrogeologic conditions in the area of the source of contamination and to define the extent of the existing contamination at the Gowanda Day Habilitation Center property. The SI includes a contaminant exposure pathway analysis to determine potential and/or completed exposure pathways by which receptors could be exposed to the contaminants.

The following objectives were addressed as part of the SI:

- Define the occurrence and extent of impacted soil (surface and subsurface) and groundwater contamination at the study site.
- Evaluate the presence of possible on-site source areas that may be present at the facility.

- Evaluate possible off-site sources of contamination that may be impacting the study site.
- Evaluate impacted soil and groundwater that may be present beneath the building.
- Evaluate possible impacted soil at an on-site garden at the study site.
- Define the groundwater regime and flow direction at the study site.
- Evaluate the potential for off-site migration of impacted groundwater.
- Develop remedial alternatives for site cleanup measures that may be warranted.

1.3 Site Description

The subject parcel consists of an irregular-shaped, 5.94-acre parcel located at 4 Industrial Place in the Town of Persia (which contains the Village of Gowanda), Cattaraugus County, New York. The location of the subject parcel is shown on Figure 1, which was prepared from a U.S.G.S. topographic map for the area. The subject parcel is developed with the Gowanda Day Habilitation Center building, parking lots, access roads, landscaped yards and a garden. The building consists of a single story slab-on-grade, approximate 56,000 square foot concrete block structure with aluminum siding expansions. The building, previously used by several manufacturing operations, was built in stages between 1956 and 1987 and was renovated in 1987-1988. New York State agencies have occupied the building since 1982. New York State acquired the parcel in 1989. The subject parcel was last operated by the Western New York Developmental Disabilities Services Office as a Day Habilitation Center for mental care clients. In April 2001 operations ceased at the facility, and services were relocated to alternate OMRDD locations. The building was vacant at the time of the site investigation.

Industrial Place is a dead-end street less than a quarter mile in length. Gowanda Electronics, a manufacturing facility, is located on the east side of Industrial Place, across from the subject parcel. Residential properties are located along Torrance Place, north of the subject parcel, and commercial/industrial properties are located along Industrial Place to the east and southeast. Thatcher Creek, a small tributary to Cattaraugus Creek, delineates the western border while the residences of Torrance Place are on the northern border. A railroad line and vacant land border the study site to the south and southwest.

1.4 Site History

A summary of the subject parcel's historic development and use was determined from review of historic aerial photographs, historic Sanborn ® fire insurance maps, information provided by the Town of Persia Assessor, the Village of Gowanda Clerk's Office and from records and site survey maps and drawings provided OMRDD. The site history is summarized below in Table 1.

**TABLE 1
SUMMARY OF SITE HISTORY**

| Approximate Dates | Site Use |
|------------------------------|---|
| Unknown until circa 1939 | Agricultural-farmland, no structures present. Based on an aerial photograph dated 1939. |
| 1948 | Manufacturing – Upholstery business, a small building was present on eastern portion of the property (based on a historic Sanborn ® fire insurance map). |
| Circa 1956 | Small commercial-type building present on the eastern portion of the property (based on review of historic aerial photo). |
| Undetermined to October 1981 | Owned by AVM (American Voting Machines). Used as a manufacturing facility. The Gowanda study site is also known locally as the AVM building. AVM previously occupied the study site and other nearby parcels (including the nearby Gowanda Electronics facility located at 1 Industrial Place). Exact dates of operation at the study site could not be determined, but AVM and a predecessor company that was apparently acquired by AVM (Knowles-Fisher Corp.) and a successor-in-interest company (American Locker Group Inc.) that apparently acquired AVM were active at the study site property from about 1945 until 1979. These companies operated various machine and stamping shops and manufactured voting machines. Actual operations conducted at the study site could not be determined but may have included various manufacturing and warehouse/storage operations. AVM use of the study site property apparently ceased between 1979 and 1981. |
| October 1981 | Site acquired by Murco Development Corp. Murco Development Corp. reportedly acquired the study site property in October 1981. In 1982 New York State Offices occupied the study site building, and the New York State Office of Mental Retardation and Developmental Disabilities renovated the building into a Day Habilitation Center. |
| 1982 | Site is occupied by NYS OMRDD. Renovated into the Western New York Day Habilitation Center (WNYDDSO). |
| April 1984 | Site acquired by Vincent Gaito. Still occupied by OMRDD. |
| 1987-1988 | Major renovation of the building is completed. This work included renovations to the loading dock area on the south side of the building. This area was enclosed and converted to a Cafeteria, hallways and offices. |
| September 1989 | Site acquired by Consolidated Capital Special Trust. The building is still occupied by OMRDD. |
| 1989 | Site acquired by the State of New York. The subject parcel building was utilized by OMRDD as a Day Habilitation Center for OMRDD. |
| 2002 | OMRDD vacates the building and relocates operations to other facilities |

1.5 Site Investigation Work Tasks

The approach and techniques used to accomplish the goals of the field investigation are described in Section 2.0. The Site Investigation included the following tasks:

- Installation of test borings and groundwater monitoring wells;
- Field screening of soil samples;
- Laboratory analysis on soil and groundwater samples;
- Determination of the local groundwater and aquifer hydraulic characteristics;
- Evaluation of the potential for off-site migration of impacted groundwater; and
- Preparation of the Site Investigation report.

Development of interim remedial measures for on-site cleanup and preparation of recommendations for additional investigative work were also addressed as part of this Site Investigation process.

Indoor Air Sampling was included as part of the investigations conducted during 2000 at the Gowanda Day Habilitation Center building. No indoor air sampling was conducted as part of this current site investigation.

2.0 SITE INVESTIGATION FIELD ACTIVITIES

The SI consisted of a series of field activities employing a phased approach to efficiently generate the data and provide the information necessary to fully understand the nature and extent of contamination. Environmental samples were collected throughout the study area, initially at the known source area working outward, generally to the north, with the selection of sample locations based on analytical results as they became available. Samples of soil and groundwater were collected and analyzed using a variety of techniques and tools.

On-site investigative activities at the Gowanda Day Habilitation Center subject parcel began on July 3, 2002 and were completed on December 10, 2002. The fieldwork was completed in general accordance with the approved work plan. A summary of the field investigation activities follows.

2.1 Test Boring Installation

The site investigation fieldwork consisted of installation of 28 soil test borings, with selected borings completed as monitoring wells. All test borings and monitoring wells were installed by Geologic NY, Inc, with continuous oversight by Bergmann Associates personnel. Test boring locations were described in the 2001 work plan, and were approved by the NYSDEC and NYSDOH. Well locations were adjusted based on site access, overhead clearance and ease of drilling (for internal borings only). Locations for the test borings are shown on Figure 2, Test Boring and Monitoring Well Location Map.

Test boring activities commenced on July 8, 2002 and was completed on July 31, 2002. Twenty four (24) of the test borings were installed by advancing 4 ¼ inch diameter hollow stem augers. Continuous spilt spoon soil samples were obtained in two (2) foot intervals at each boring. Four (4) of the interior test borings (B-25, B-26, B-27 and B-28) were located in narrow hallways with limited access. These borings were installed by driving a Macrocore ® spilt spoon soil sampler with an electric jack hammer. Soil samples were collected using a disposable acetate liner that was replaced for each four (4) foot run.

All test boring equipment was disassembled and decontaminated between locations in accordance with the SI Work Plan. Soil cuttings from all test borings were collected and placed in 55 gallon drums. The cuttings were disposed of at an approved disposal facility as non-hazardous waste.

2.2 Field Screening of Test Boring Soil Samples

All soil samples were examined noting any visual characteristics. Field screening and laboratory analysis was performed as part of the test boring/well installation program. 28 test borings, advanced to an underlying clay-glacial till deposits (marking the bottom of the overburden water table), were installed. The dates of installation, approximate depths to groundwater, depth to the underlying glacial till and field screening observations are summarized in table 2. The test boring logs are included in Appendix 1.

TABLE 2
SUMMARY OF TEST BORING INSTALLATION AND FIELD SCREENING

| Test Boring/ Well Number | Date Completed | Drilling Methodology | Max PID Reading of VOCs, Sample Interval | Soil Sample Interval Submitted for Analysis | Approximate Depth to Groundwater, while Drilling | Depth to Underlying Glacial Till |
|-----------------------------|-------------------|-------------------------|--|---|---|--|
| B-1/MW-1 | 07/31/2002 | Drill Rig, auger | 176 ppm, 2'-4' | 2 samples: 2'-4', VOCs | 8 feet | 16.17 feet |
| B-2/MW-2 | 07/25/2002 | Drill Rig, auger | 0.3 ppm, 8'-10' | 8'-10': 0.3 ppm | 8 feet | 17.0 feet |
| B-3/MW-3 | 07/12/2002 | Drill Rig, auger | 27 ppm, 8'-10' | 8'-10': PID=27 ppm | 8 feet | 17.0 feet |
| B-4/MW-4 | 07/11/2002 | Drill Rig, auger | All samples =ND | 10'-12': PID = 0 ppm | 11 feet | 15.83 feet |
| B-5/MW-5 | 07/31/2002 | Drill Rig, auger | 56 ppm, 6'-8' | 8' - 13' composite | 12 feet | 14.0 feet |
| B-6/MW-6 | 07/30/2002 | Drill Rig, auger | 27 ppm, 18'-20' | 18'-20': PID=27 ppm | 12 feet | 20.5 feet |
| B-7/MW-7 | 07/30/2002 | Drill Rig, auger | 3.7 ppm, 16'-18' | 16'-17.5': PID=3.7 ppm | 12 feet | 19.5 feet |
| B-8/MW-8 | 07/24/2002 | Drill Rig, auger | All samples =ND | 9'-10': PID=0 ppm | 9 feet | 15.83 feet |
| B-9/MW-9 | 07/11/2002 | Drill Rig, auger | All samples =ND | 8'-10': PID = 0 ppm | 8 feet | 19.5 feet |
| B-10/MW-10 | 07/10/2002 | Drill Rig, auger | All samples =ND | 6'-8': PID = 0 ppm | 7 feet | 17.5 feet |
| B-11/MW-11 | 07/17/2002 | Skid Rig, auger | 130 ppm, 4'-6' | 9'-11': PID=60 ppm | 9 feet | 15.25 feet |
| B-12/MW-12 | 07/16/2002 | Skid Rig, auger | 30 ppm, 12'-14' | 12'-14': PID=30 ppm | 10 feet | 17.17 feet |
| B-13/MW-13 | 07/15/2002 | Skid Rig, auger | 9 ppm, 10'-12' | 10'-12': PID = 9 ppm | 8 feet | 17.5 feet |
| B-14/MW-14 | 07/18/2002 | Skid Rig, auger | 143 ppm, 10'-12' | 10'-12': PID=143 ppm | 11 feet | 18.5 feet |
| B-15/MW-15 | 07/19/2002 | Skid Rig, auger | 161 ppm, 2'-4' | 12'-14': PID=84 ppm | 12 feet | 20.5 feet |
| B-16 | 07/08/2002 | Drill Rig, auger | All samples =ND | 8'-10': PID=0 ppm | 7 feet | 18.0 feet |
| B-17 | 07/09/2002 | Drill Rig, auger | All samples =ND | 8'-12': PID=0 ppm | 8 feet | 16.0 feet |
| B-18 | 07/10/2002 | Drill Rig, auger | All samples =ND | 5'-6': PID = 0 ppm | 6 feet | 15.83 feet |
| B-19 | 07/24/2002 | Drill Rig, auger | All samples =ND | 8'-10': PID=0 ppm | 8 feet | 18.5 feet |
| B-20 | 07/26/2002 | Drill Rig, auger | 14.7 ppm, 12'-14' | 12'-14': PID=14.7 ppm | 12 feet | 15.0 feet |
| B-21 | 07/24/2002 | Drill Rig, auger | 2.5 ppm, 2'-4' | 8'-10': PID = 0 ppm | 8 feet | 16.5 feet |
| B-22 | 07/09/2002 | Drill Rig, auger | All samples =ND | 4'-6': PID=0 ppm | 4 feet | 13.5 feet |
| B-23 | 07/25/2002 | Drill Rig, auger | 17.8 ppm, 4'-6' | 10'-11': PID=0.5 ppm | 10 feet | 15.83 feet |
| B-24 | 07/31/2002 | Drill Rig, auger | 18.4 ppm, 18'-20' | 18'-20': PID=18.4 ppm | 11 feet | 22.25 feet |
| B-25 | 07/23/2002 | MacroCore | All samples =ND | 9'-11': PID=0 ppm | 9 feet | >16 feet, Refusal |
| B-26 | 07/23/2002 | MacroCore | 18.9 ppm, 3'-4' | 11'-12': PID=3.9 ppm | 11 feet | >16 feet, Refusal |
| B-27 | 07/26/2002 | MacroCore | 3.4 ppm, 12'-13' | 12'-13': PID=3.4 ppm | 12 feet | >17 feet, Refusal |
| B-28 | 07/23/2002 | MacroCore | 15.3 ppm, 11'-12' | 11'-12': PID =15.3 ppm | 11 feet | 13.0 feet |

2.3 Installation of Groundwater Monitoring Wells

The site investigation fieldwork included installation of groundwater monitoring wells. A total of fifteen (15) monitoring wells were installed throughout the study area to evaluate the hydrogeologic conditions of the water table aquifer and to collect samples for laboratory analysis. Monitoring wells were installed between July 10 and July 31, 2002 by Geologic NY, Inc, with oversight by Bergmann Associates personnel. Monitoring well locations and elevation data are shown on Figure 2.

All monitoring wells installed in 2002 were located on the Gowanda Day Habilitation Center property. The wells include up-gradient monitoring points. The test boring and monitoring well installation program was completed during July 2002. Boring logs and well construction details are included as Appendix 1. Monitoring well details are summarized in Table 3.

**TABLE 3
MONITORING WELL CONSTRUCTION SUMMARY**

| Well Number | Date Completed | Construction Material | Well Dia. | Elevation of the Top of Well Casing, Feet, Mean Sea Level | Approximate Depth to Groundwater | Well Screen Interval | Depth to Underlying Glacial Till |
|-------------|----------------|-----------------------|-----------|---|----------------------------------|----------------------|----------------------------------|
| MW-1 | 07/31/2002 | PVC | 2" | 778.23 | 8 feet | 4.5 to 16.5 feet | 16.17 feet |
| MW-2 | 07/25/2002 | PVC | 2" | 778.08 | 8 feet | 4.0 to 17.5 feet | 17.0 feet |
| MW-3 | 07/12/2002 | PVC | 2" | 778.38 | 8 feet | 4.5 to 17.5 feet | 17.0 feet |
| MW-4 | 07/11/2002 | PVC | 2" | 778.43 | 11 feet | 4.5 to 16.5 feet | 15.83 feet |
| MW-5 | 07/31/2002 | PVC | 2" | 778.61 | 12 feet | 4.5 to 14.5 feet | 14.0 feet |
| MW-6 | 07/30/2002 | PVC | 2" | 781.10 | 12 feet | 6.0 to 21.0 feet | 20.5 feet |
| MW-7 | 07/30/2002 | PVC | 2" | 780.94 | 12 feet | 5.0 to 20.0 feet | 19.5 feet |
| MW-8 | 07/24/2002 | PVC | 2" | 781.33 | 9 feet | 4.5 to 16.5 feet | 15.83 feet |
| MW-9 | 07/11/2002 | PVC | 2" | 782.61 | 8 feet | 5.0 to 20.0 feet | 19.5 feet |
| MW-10 | 07/10/2002 | PVC | 2" | 780.02 | 7 feet | 3.0 to 18.0 feet | 17.5 feet |
| MW-11 | 07/17/2002 | PVC | 2" | 778.58 | 9 feet | 4.0 to 16.0 feet | 15.25 feet |
| MW-12 | 07/16/2002 | PVC | 2" | 778.50 | 10 feet | 4.0 to 18.0 feet | 17.17 feet |
| MW-13 | 07/16/2002 | PVC | 2" | 778.39 | 8 feet | 4.0 to 18.0 feet | 17.5 feet |
| MW-14 | 07/18/2002 | PVC | 2" | 778.43 | 11 feet | 5.0 to 19.0 feet | 18.5 feet |
| MW-15 | 07/19/2002 | PVC | 2" | 778.38 | 12 feet | 6.0 to 21.0 feet | 20.5 feet |

Five (5) monitoring wells were installed inside the subject parcel building. The remaining 10 wells were installed at exterior locations. The monitoring wells were installed using hollow stem auger techniques. Determination of well locations was based on the understanding of the groundwater contaminant plume, ease of access for the drill rig and sampling equipment.

Test borings for monitoring wells were installed by advancing 4 1/4" hollow stem augers to the base of the shallow aquifer, identified by the top of glacial till. Borings for the monitoring wells were also advanced six (6) inches into the till layer. Completed monitoring wells ranged in depth from 14.5 feet to 21.0 feet below ground surface, depending upon location. Continuous split spoon samples were collected at each boring for visual identification and logging of the soil

types encountered. This information has been used to develop a comprehensive understanding of the geology within the study area.

The monitoring wells were all constructed of 2 inch (inside diameter), Schedule 40 PVC .010 inch slot well screen, with 2 inch (inside diameter) PVC riser. Well screens are 10 to 15 feet in length, as necessary to intercept the saturated thickness of the aquifer. Wells constructed in the access roads of the facility have been completed with flush mounted curb boxes, while those on commercial property not in the potential path of auto traffic were completed with an outer protective casing and approximately 30 inches of stickup riser. Well construction details for each monitoring well are included in Appendix 1.

2.4 Measurement of Groundwater Elevations

The depth to groundwater was measured in all the monitoring wells after completion and development. Measurements were made on August 28, 2002, November 17, 2002 and December 10, 2002. The data was converted to sea level-elevation based on surveyed points on the monitoring well and developed into a surface plot. This information indicates the direction of groundwater flow and was used to determine groundwater flow velocities. Measurements were obtained in August and December 2002 to allow for seasonal fluctuations in the depth to groundwater and changes in the local flow pattern. Field data is included in Appendix 2.

2.5 Aquifer Testing

Following the development of the monitoring wells, in-situ aquifer testing (slug tests) was performed on October 17, 2002 to determine the hydraulic conductivity of the aquifer at various locations. Slug testing was performed on six (6) monitoring wells, at locations up-gradient and down-gradient of the inferred source area of groundwater contamination as well as on three (3) monitoring wells in the apparent area of maximum groundwater contamination. Results are discussed in Section 3.2. Slug test field data and results of modeling are included in Appendix 3.

2.6 Survey Work

At the completion of the test boring program and well installation work, all sampling points and monitoring wells were surveyed and added to the base map. Monitoring wells were also surveyed for elevation to establish a point from which to measure groundwater elevations. It should be noted that all buildings shown on the base map were not precisely surveyed, but rather estimated to provide a frame of reference. The survey work was completed by Larson Engineers and Surveyors on August 20 – 21, 2002. A detailed property survey was not completed. An existing survey map of the subject parcel property supplied by OMRDD, prepared at a scale of 1 inch = 80 feet by Krehbiel Associates (drawing D-2297) dated June 16, 1992 was used as the base map (Figure 2).

Elevations for ground surface for all test boring locations was determined, relative to mean sea level. The elevation for the top of PVC well casing, and the top of the protective steel casing/roadway box was also determined relative to mean sea level. The top of PVC well casing and top of protective devices (curb boxes or stand pipes) for each well was determined to an

0.010 foot accuracy. Well locations were determined to 0.10 foot accuracy (northing and easting). Iron rods that marked property corners were also exposed to determine accuracy of past site survey maps and to determine the subject parcel's property lines. Elevation data for grade, top of well casing and for the protective device are shown on Figure 2.

2.7 Laboratory Analysis on Soil Samples

At least one (1) soil sample was collected from each test boring for laboratory analysis. The base analysis included volatile organic compounds, by U.S. EPA Method 8260. All soil samples were submitted for analysis for VOCs via this method. A total of 33 soil samples were collected for the base VOC analysis. This included one (1) sample from all 28 test borings, collection of an additional sample from boring B-1/MW-1 (two samples at different depths at this boring), (2) duplicate soil samples and two (2) surface soil samples from the garden area south of the Day Habilitation Center building.

Five (5) soil samples from four (4) borings (1 duplicate sample) and one (1) surface sample from the garden area were submitted for an expanded list of analytical parameters. These samples represented approximately 15% of the total number of soil samples. The expanded analysis included the base analysis, and also included:

- Target Compound List (TCL) of metals plus cyanide;
- TCL list of Semi-volatile organic compounds (SVOCs), including Base Neutral and Acid extractable constituents.
- PCBs;
- TCL Pesticides; and
- TCL Herbicides.

The expanded laboratory analysis was performed on the soil samples collected from the following:

- The surface soil sample collected to a depth of six (6) inches at the garden (north sample);
- Test Boring B-17, in the former baseball field up-gradient of the facility, collected from eight to twelve feet below grade;
- Test Boring B-21, at the west loading dock area, collected from eight to 10 feet below grade;
- Test Boring B-25, located inside the building (a duplicate soil sample was also submitted from this location, from the same interval); both samples collected from nine to eleven feet below grade;

- The soil sample collected from monitoring well B-1/MW-1 located adjacent to the south side of the study site building. The expanded analysis was performed on the sample collected from the eight to ten foot interval, except for the herbicide analysis. Due to insufficient sample material the herbicides analysis at B-1/MW-1 was performed on the soil sample collected from the two foot to four foot interval at this location.

The QA/QC program also included analysis of sufficient Field Duplicate, Matrix Spike and/or Trip Blank samples to comply with New York State Analytical Services Protocol (ASP). 20% of the collected samples were subject to ASP review.

Analytical results are discussed in Section 3.3 of this report. All soil samples were collected by Bergmann Associates personnel. The soil samples were handled, labeled and preserved in accordance with the approved SI plan. The soil samples were submitted under chain-of-Custody protocol to Severn Trent Services, a NYSDOH certified analytical laboratory for testing. Samples were hand-delivered to the Severn Trent facility located in Amherst, NY. The soil samples were delivered on July 11; July 12; July 19; July 26; and August 1, 2002.

2.8 Groundwater Sampling and Laboratory Analysis

The groundwater monitoring wells on the Gowanda Day Habilitation property were installed between July 19 to July 31, 2003. All monitoring wells were developed to remove sediments from the filter pack, and to improve groundwater flow into the well. The wells were developed by a combination of low flow pumping and surging using dedicated bailers, removing sufficient water to remove sediment from the filter pack. Wells were developed until turbidity levels decreased to 50 Nephelometric Turbidity Units (NTUs). Development is necessary to insure proper communication of the well screen with the aquifer for accurate measurements of hydrogeologic properties and for the collection of representative groundwater samples.

Groundwater samples were collected in August and September 2002 from all on-site monitoring wells for chemical analyses. All fifteen (15) groundwater monitoring wells were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs). 10% of the samples were submitted for these analyses according to NYSDEC Analytical Services Protocol (ASP). Four groundwater samples from three (3) monitoring wells (MW-1, MW-1 Duplicate, MW-6 and MW-12) were submitted for the expanded analysis. The expanded analysis on the groundwater samples included the same parameters listed for the soil samples, as listed below;

- Target Compound List (TCL) of metals plus cyanide;
- TCL list of Semi-volatile organic compounds, including Base Neutral and Acid extractable constituents.
- PCBs;
- TCL Pesticides; and
- TCL Herbicides.

Monitoring wells were purged of at least three well volumes of water (the amount of water in the well under static conditions) using a peristaltic pump at a low flow rate, prior to sampling to insure all stagnant water was removed. Purge water was collected in 55 gallon drums for off-site disposal. Field parameters of turbidity, conductivity, pH, and temperature were measured, with stability of those parameters used as an indication that the well was completely purged. Samples were then collected with a dedicated bailer, sealed in the appropriate containers, and placed on ice for shipment to Severn Trent Laboratories in Amherst, NY, a NYSDOH certified laboratory, which performed the analysis.

All soil samples were collected by Bergmann Associates personnel. The soil samples were handled, labeled and preserved in accordance with the approved SI plan. The soil samples were submitted under chain-of-Custody protocol to Severn Trent Services, a NYSDOH certified analytical laboratory for testing. Samples were hand-delivered to the Severn Trent facility in Amherst, NY on August 30 and September 4, 2002. Analytical results are discussed in Section 3.4 of this report.

2.9 Data Validation and Usability

In accordance with the SI work plan, a Data Usability Summary Report was prepared by a qualified, independent firm – Data Validation Services on data packages generated by Severn Trent Laboratories. This included soil samples collected between July 8, 2002 – July 31, 2002 and aqueous samples collected between August 28, 2002 and September 4, 2002. The following number of data packages were reviewed:

- Five (5) soil samples – Target Compound List (TCL) and STARS VOC's, TCL SVOC's, TCL pesticides, TCL PCB's, herbicides (three only) and TAL Metals/CN (four by USEPA SW846 methods and one by 2000 NYSDEC ASP).
- Seven (7) aqueous samples – TCL and STARS VOC's, TCL SVOC's, TCL pesticides, TCL PCB's, herbicides (three only) and TAL Metals/CN (six by USEPA SW846 methods and one by 2000 NYSDEC ASP).
- Twenty-seven (27) soil samples – TCL and STARS VOC's (twenty-three by USEPA SW846 methods and four by 2000 NYSDEC ASP).
- Twelve (12) aqueous samples – TCL and STARS VOC's (ten by USEPA SW846 methods and two by 2000 NYSDEC ASP).
- Sample matrix spikes, equipment and trip blanks were also processed.

The field samples processed by NYSDEC 2000 ASP were reported with full laboratory deliverables. This includes review of all summary form and sample raw data. The remaining analytical packages were processed by USEPA SW846 methodologies and reduced summary level data packages were provided. This includes review of data packages and any observed anomalies in QC. The data has been reviewed for application of qualifiers per the NYSDEC Division of Environmental Remediation guidance for the Development of data Usability

Summary Reports as it relates to the usability of this sample data. Results of the usability review including items that indicated deficiencies are discussed in Section 3.5. The following items were reviewed:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal standard Recoveries
- Matrix Spike Recoveries/Duplicate Correlation
- Preparation and Calibration Blanks
- Control Spike and Laboratory Control Samples
- Instrumental Tunes and IDL's (ASP only)
- Calibration/CRI/CRA Standards (ASP only)
- ICP Interference Check Standards (ASP only)
- ICP Serial Dilution Correlation (ASP only)

3.0 SITE INVESTIGATION FINDINGS

The findings and interpretation of the data for the SI are discussed in this section. A description of the site geology and hydrogeology provide a basis to further understand the nature and extent of contamination across the study area. Contaminant distribution is discussed based on the site geology and hydrogeology and the analytical results of soil, groundwater samples and previously collected indoor air samples with an overall description of current conditions

3.1 Site Geology

Information on regional geologic conditions was obtained by review of published literature and available mapping. The subject parcel is located in the flood plain for Cattaraugus Creek. Cattaraugus is unique for New York State, with both glaciated and unglaciated topography present. The Village of Gowanda is located at the southern extreme of the Lake Erie physiographic province, abutting New York Uplands to the south (Tesmer, 1975). Cattaraugus Creek has sharply incised underlying glacial deposits consisting of till to exposed bedrock in the stream valley. Regional geologic mapping of surface deposits indicates that the unconsolidated deposits at the subject parcel consist of Recent Deposits (al), unconsolidated sediments generally confined to flood plains within a valley. These deposits are oxidized, non-calcareous fine sand to gravel, and can be overlain by silt in larger valleys, and may be subject to frequent flooding. Figure 3 shows the Surface Geology for the region. This map was prepared from the Surficial Geologic Map of New York, Niagara Sheet, 1988.

Bedrock was not encountered in any of the test borings installed for this site investigation. Borings were advanced to depths ranging from 14 feet to 22 feet below ground surface. Regional geologic mapping indicates that the bedrock at the subject parcel consists of sedimentary units, the Machias Formation of the Upper Devonian-age Canadaway Group. In the vicinity of Gowanda this formation consists of 400 to 600 feet of undifferentiated and interbedded gray shale and gray siltstone members. Figure 4 shows the Bedrock Geology for the region, this map was prepared from the Geologic Map of New York, Niagara Sheet, 1970.

All subsurface deposits encountered during the Site Investigation consist of unconsolidated overburden material, representing three (3) distinct units and a thin layer of fill/reworked native deposits. The lowermost unit encountered is a glacial till deposit. The till is comprised of clay, silt, and fine sand, is very dense and compact, and is relatively impermeable. The total thickness of the till unit was not identified during this study. The till deposit is at least 15 feet thick, based on information from the Remedial Investigation conducted at the AVM Gowanda/Gowanda Electronics site (NYSDEC Registry of Inactive Hazardous Waste Disposal Sites # 905025). As part of the AVM Gowanda Remedial Investigation, two (2) test borings were advanced 15 feet into the till deposit, without encountering bedrock. Based on the widespread occurrence, apparent thickness, relatively high clay content and the relative lack of free moisture (compared to overlying deposits) the glacial till functions as a barrier to downward groundwater flow and contaminant migration. The top of this till unit is found at the subject parcel at depths of from 13.5 feet to 22.25 feet below ground surface, depending on location.

The primary water bearing unit is immediately above the till, consisting of alluvium sand and gravel of varying composition. This deposit is present at depths ranging from 6.0 to 12.0 feet below ground surface and extending to the top of glacial till deposit. The relatively coarse grained alluvium deposit is an average of 8.8 feet thick, ranging from a minimum of 4.5 feet to a maximum of 12.5 feet in thickness. The alluvium sand and gravel deposit is a post-glacial alluvial deposit as a result of streams flowing over the till, carrying and depositing large quantities of sand and gravel. These streams continually changed course, cutting and subsequently filling channels with sediment of various grain size depending on the volume and rate of flow, resulting in the variability of material observed during the SI.

The post-glacial streams that flowed over the till were also responsible for the contouring of this deposit through erosion processes. Surface features of the till, such as the bowl beneath Torrance Place, are a result of this erosion. Overall, the alluvial unit is a relatively permeable mix of sand and gravel, with channel deposits of coarser material (and therefore even more permeable) controlling, in part, groundwater flow pathways. The surface of the glacial till deposit is shown on Figure 5.

The uppermost naturally occurring unit encountered at the Gowanda Day Habilitation site is a layer of flood plain deposits consisting of fine sand, silt, and clay. This soil unit extends from the ground surface to the top of the alluvial sand and gravel unit, generally 6.0 feet to 12.0 feet in thickness (including the overlying fill deposits, which can resemble re-worked native deposits). The path of the stream system responsible for the sand and gravel was displaced as the deposits filled the channels. Periodic flooding over the banks of the stream carried from grained sediments, the fine sand, silt, and clay, in the quieter floodwaters and deposited them on top of the sand and gravel. The flood plain deposits contain silt, are finer-grained and are thus less permeable than the underlying sand and gravel unit.

A veneer of fill and/or re-worked native soil was encountered at the ground surface across the study site. Much of the site is paved with asphalt, and crushed gravel and fill, which appeared to consist of sand and gravel resembling the alluvium deposits, were observed. Re-worked native sediments were also encountered directly beneath the concrete slab for the Day Habilitation Center building. The structure does not have a basement. The surface fill at the subject parcel varied in thickness from 0 feet (not present) to 7.8 feet thick at a loading dock on the western side of the building. Fill was also encountered during the hand excavation, to a depth of 1.0 feet, in the grassy garden area south of the building.

The unconsolidated geology at the subject parcel is shown visually on geologic cross-sections A-A¹, presented on Figure 6, and on cross-section B-B¹, presented on Figure 7.

The cross-sections were prepared utilizing information gathered from the installation of the 28 test borings and 15 groundwater-monitoring wells in July 2002. Cross-section A-A¹ presents subsurface overburden characteristics in an easterly-westerly direction. Cross-section B-B¹ presents the subsurface characteristics in a southerly to northerly direction. The B-B¹ cross-section also generally follows the shallow water table surface through the site

3.2 Site Hydrogeology

The uppermost water-bearing unit at the subject parcel occurs within the alluvial sand and gravel unit under unconfined conditions. An unconfined aquifer is one where the groundwater surface, or water table, is free to rise and fall depending on aquifer recharge and artificial influences such as pumping wells or drainage systems. The saturated thickness of the aquifer (based on measurements obtained in December 2002) ranges from 3.2 feet to 13.2 feet. The saturated thickness tends to be thicker in the southern and western portions of the study, and thinner in the western and northern areas. Recharge occurs to a water table aquifer through horizontal flow from an up-gradient source and/or infiltration of precipitation. The study area is served with storm drains to Cattaraugus Creek for the paved areas including parking lots and village streets. Regionally, the area is bound by Thatcher Creek, a tributary to Cattaraugus Creek, to the east, and Cattaraugus Creek to the west. Locally, Thatcher Creek, is inferred to exerts a minor influence on groundwater flow within the study area, as can be observed on Figures 8 and 9, Shallow Water Table surface and Groundwater Flow for August and December 2002, respectively.

Sanitary and storm sewer lines are present at the subject parcel and along Torrance Place. These municipal service lines are at depths above the water table and are inferred as having no effect on groundwater flow.

Groundwater flow direction is determined by observing the elevation of the water table at various locations and calculating the slope (hydraulic gradient) of that surface, with flow being in the direction of high to low elevation, or potential. Groundwater flow velocity is determined using the hydraulic gradient, hydraulic conductivity, and the porosity of the material through which the flow is occurring. The calculated values of these parameters for the water table aquifer are discussed below.

All monitoring wells have had water levels recorded during three (3) site visits, conducted at approximate two (2) month intervals, in August, October and December 2002 to for seasonal variations. The measured depth to water is subtracted from the top of PVC casing, a point with a determined elevation relative to sea level, to obtain the equivalent water table elevation at that point. The depth to water measurements and equivalent groundwater elevations (relative to mean sea level) for the three (3) monitoring events are summarized in Table 4. Monitoring Well Depth Gauging and Development Forms are provided as Appendix 2.

TABLE 4
SUMMARY OF DEPTH TO WATER AND GROUNDWATER TABLE ELEVATIONS

| Well # | Elevation, TOC | Depth to Water 08/28/02 | Water Table Elevation 08/28/02 | Depth to Water 10/17/02 | Water Table Elevation 10/17/02 | Depth to Water 12/10/02 | Water Table Elevation 12/10/02 |
|--------------------|----------------|-------------------------|--------------------------------|-------------------------|--------------------------------|-------------------------|--------------------------------|
| MW-1 ^a | 778.23 | 6.24 | 771.99 | 5.99 | 772.24 | 5.49 | 772.74 |
| MW-2 ^a | 778.08 | 5.96 | 772.12 | 5.75 | 772.33 | 5.28 | 772.80 |
| MW-3 ^a | 778.38 | 6.42 | 771.96 | 6.23 | 772.15 | 5.72 | 772.66 |
| MW-4 ^a | 778.43 | 7.95 | 770.48 | 8.06 | 770.37 | 7.07 | 771.36 |
| MW-5 ^a | 778.61 | 10.79 | 767.82 | 10.97 | 767.64 | 10.69 | 767.92 |
| MW-6 ^b | 781.10 | 13.33 | 767.77 | 13.44 | 767.66 | 13.18 | 767.92 |
| MW-7 ^b | 780.94 | 13.23 | 767.71 | 13.33 | 767.61 | 13.12 | 767.82 |
| MW-8 ^b | 781.33 | 9.36 | 771.97 | 9.10 | 772.23 | 8.60 | 772.73 |
| MW-9 ^b | 782.61 | 9.25 | 773.36 | 9.08 | 773.53 | 8.30 | 774.31 |
| MW-10 ^b | 780.02 | 7.09 | 772.93 | 6.70 | 773.32 | 6.21 | 773.81 |
| MW-11 ^a | 778.58 | 6.61 | 771.97 | 6.42 | 772.16 | 5.90 | 772.68 |
| MW-12 ^a | 778.50 | 7.23 | 771.27 | 7.00 | 771.50 | 6.56 | 771.94 |
| MW-13 ^a | 778.39 | 7.28 | 771.11 | 7.07 | 771.32 | 6.73 | 771.66 |
| MW-14 ^a | 778.43 | 10.04 | 768.39 | 9.93 | 768.50 | 9.54 | 768.89 |
| MW-15 ^a | 778.38 | 10.51 | 767.87 | 10.60 | 767.78 | 10.37 | 768.01 |

a: These monitoring wells are flush-to-grade

b: These monitoring wells extend above ground surface and are protected with steel protective piping

All measurements are in feet. Water Table Elevations are relative to Mean Sea Level

TOC = Top of PVC Casing, relative to mean sea level.

Equipotential lines representing areas of equal water table elevation were prepared using the groundwater elevations established for the 15 monitoring wells. Groundwater flow is estimated at right angles to the equipotential lines.

Mapping was prepared from the August 28, 2002 and December 10, 2002 well gauging events. The shallow groundwater at the subject parcel is present at depths ranging from 4.5 feet to 11 feet below ground surface. The August 2002 shallow groundwater at the subject property is shown to be flowing in a northerly direction.

The December 2002 gauging showed that the shallow water table at the subject parcel flows in the northerly direction, in a similar flow direction as the August 2002 pattern. The average depth to groundwater was approximately 8.18 feet below ground surface. The water table surface showed a rise of approximately 0.57 feet compared to the August 2002 values, likely to seasonal precipitation.

The hydraulic gradients have been calculated for the study area. Hydraulic gradient is the difference in hydraulic head (in this case water table elevation) between two points, divided by the distance between those points, expressed as a percentage. It is necessary for the calculation of groundwater velocity and is an indicator of flow direction.

The average hydraulic gradient in the down-gradient direction varies from 0.028 feet/foot to 0.0241 feet/foot along the B-B¹ geologic cross section.

To obtain aquifer characteristics slug testing was performed using both rising head and falling head techniques. A slug (solid PVC pipe) was lowered or removed into the well to displace the water column. Changes in water elevation were recorded electronically using the In-Situ ® Mini Troll Pro data logger and a lap top computer. Hydraulic conductivity was evaluated via the Bouwer and Rice slug test method for unconfined aquifers using the Aqtesolv ® for windows software. Hydraulic conductivity data generated from the slug tests are presented in Table 5. Values across the study area range from 1.001×10^{-3} to 1.403×10^{-3} cm/sec (centimeters per second), with an average hydraulic conductivity of 1.236×10^{-3} cm/sec. The slug test results indicate a relatively permeable aquifer capable of transmitting a moderate volume of groundwater. However, it should be noted that hydraulic conductivity values generated from slug tests provide limited data at best, especially in moderately conductive aquifers with localized variability. More precise values, when necessary, can be obtained from aquifer pumping tests that were not conducted as part of this study. Slug test field data is provided as Appendix 3.

Groundwater velocity, has been calculated based on the information above and assuming a porosity of 30% for a sand and gravel mix (Fetter, 1988). The groundwater flow velocity was calculated in an approximate north-south direction, parallel to the hydraulic gradient and direction of groundwater flow. Since groundwater flow directions and the hydraulic gradient varies across the site, groundwater flow velocities will show variability.

**TABLE 5
SLUG TEST HYDRAULIC CONDUCTIVITY VALUES**

| Monitoring Well Number | K (cm/sec) | K (ft/day) |
|------------------------|------------------------|------------|
| MW-1 | 1.265×10^{-3} | 3.586 |
| MW-5 | 1.001×10^{-3} | 2.838 |
| MW-7 | 1.319×10^{-3} | 3.739 |
| MW-9 | 1.403×10^{-3} | 3.978 |
| MW-12 | 1.189×10^{-3} | 3.371 |
| MW-13 | 1.238×10^{-3} | 3.510 |
| Average Values | 1.236×10^{-3} | 3.504 |

K = Hydraulic Conductivity

Seepage Velocity = Vs

$V_s = K * I / N_e$

Average K = 1.236×10^{-3} cm/sec = 3.504 ft/day

I = Hydraulic Gradient, feet/foot

N_e = effective porosity, assumed to be 30%

In the down-gradient direction, MW1 to MW14, I = 0.028 ft/foot

$V_s = (3.504 \text{ ft/day} * 0.028 \text{ ft/foot}) / 0.30 = 0.327 \text{ ft/day}$

Geologic Cross -Section B-B¹, approximately along flow axis

Down-gradient direction beneath the building slab, direct down-gradient direction,

I = 0.0241 ft/foot

$V_s = (3.504 \text{ ft/day} * 0.0241 \text{ ft/foot}) / 0.3 = 0.281 \text{ ft/day}$

3.3 Laboratory Analysis Summary, Soil Samples

Validated results of the laboratory analysis on the soil samples are presented on summary tables provided in Appendix 4. The complete laboratory analytical reporting package and chain-of-custody forms for the soil samples are provided as Appendix 5.

Chlorinated VOCs were detected in 18 of the 33 test boring and/or surface soil samples that were submitted for laboratory analysis. A summary of the VOC laboratory analytical results on soil samples is presented in Table 6.

The chlorinated compounds detected in soil samples consisted of Trichloroethene (TCE), cis-Dichloroethene (cis-DCE), trans-Dichloroethene (trans-DCE) and Vinyl Chloride (VC). TCE was detected in 18 soil samples, with a maximum concentration of 14,000 ppb detected in the shallow soil sample at boring B-1/MW-1 (2'-4' interval). No chlorinated VOCs were detected in the soil samples collected from twelve (12) test borings. (B-4, B-8, B-9, B-10, B-16, B-17, B-18, B-19, B-20, B-21, B-22, B-23).

TCE was detected at an estimated concentration of 1.0 ppb in both of the surface soil samples collected from the garden area. No other chlorinated VOCs were detected in the garden samples.

Cis-DCE was detected in 14 soil samples, with a maximum concentration of 940 ppb in the shallow soil sample from B-1/MW-1. Trans-DCE was detected in two (2) soil samples, at a maximum concentration of 10 ppb in the B-1/MW-1 shallow sample. Vinyl Chloride was detected in a single soil sample, the deep sample collected in B-1/MW-1 at the 8'-10' interval.

Acetone, Methylene chloride and Toluene were detected in the majority of the soil samples. These compounds were also detected in several trip blanks, field blanks and method blanks. Concentrations were highest in samples that required dilution due to the presence of chlorinated VOCs. The presence of Acetone, Methylene chloride and Toluene is likely due to dilution and contamination while performing extraction and analysis at the laboratory, and are not inferred as indicative of site conditions, and are assumed as not present in the soil at the subject parcel. The data validation and Usability Summary Report deleted these compounds, and they are not shown as present in the validated results.

Laboratory Analysis for semi-volatile organic compounds (SVOCs) were performed on six (6) soil samples, from the four (4) borings targeted for the expanded analysis and on the north garden surface soil sample. The SVOCs Bis (2-ethylhexyl) phthalate and Butyl benzyl phthalate were detected in four (4) samples. Phthalates can be introduced during extraction and analysis and are attributed to laboratory contamination in these samples.

Petroleum-based SVOCs were detected in the deep soil sample from boring B-1/MW-1, collected at the approximate water table. The detected SVOCs in this sample (Anthracene, Chrysene, Fluoranthrene, Phenanthrene and Pyrene) can be indicative of diesel fuel or heating oil, when these compounds are detected as a group. All of the detected concentrations of these petroleum-based SVOCs were present at concentrations below recommended NYSDEC cleanup

objectives. None of these SVOCs were detected in the groundwater samples collected at this same location.

The heavy metal Arsenic was detected in the soil sample and duplicate soil sample collected from boring B-25 at a depth of 9 to 11 feet below grade, at concentrations of 29.8 ppm (mg/kg) and 25 ppm. These values exceed the Eastern USA Background Range (3 –12 ppm) and the NYSDEC recommended cleanup objective (7.5 ppm or site background). This appears to be an isolated result that is not indicative of overall site conditions. Concentrations for all other metals, including the other seven RCRA heavy metals were all detected at levels within Eastern USA Background Ranges. The detected concentrations of metals in the study site soil samples do not appear to present an adverse impact at the subject parcel.

Cyanide was not detected in any of the six (6) samples submitted for the expanded analysis. The Cyanide analyses were performed outside of hold time, and were not validated. Cyanide was not detected in any of the groundwater samples, and Cyanide is not inferred as presenting an adverse impact at the subject parcel.

The PCB Aroclor 1254 was detected in the garden north surface soil sample at a concentration of 40 ppb. This concentration is below the NYSDEC recommended cleanup objective of 1,000 ppb (1.0 ppm) for surface soil. No other PCBs were detected in any of the remaining soil samples, and no PCBs were detected in any of the groundwater samples. PCBs are not inferred as presenting an adverse environmental impact onto the subject parcel.

Low concentrations of pesticides were detected in the Garden north surface soil sample, and in subsurface soil sample collected at B-1 and B-25. The herbicides detected in the Garden north soil sample were 4,4'-DDD, 4,4'-DDE and 4,4'-DDT. Methoxychlor was detected in the soil sample from boring B-1 and both of the B-25 samples. Endosulfan sulfate was detected in the B-25 boring sample only. All pesticide concentrations were detected at concentrations below relevant NYSDEC Recommended Cleanup Objectives. The detected pesticides may be indicative of the historical agricultural development of the subject parcel and surrounding area, and also may reflect use of these pesticides in the large field/baseball field southwest of the Day Habilitation Center building. No pesticides were detected in any of the groundwater samples. No herbicides were detected in any of the soil samples or groundwater samples collected from the subject parcel. Past use of pesticides and herbicides are not inferred as presenting an adverse environmental impact onto the subject parcel.

3.4 Laboratory Analysis Summary, Groundwater Samples

Validated results on the laboratory analysis performed on the groundwater samples are presented on summary tables provided in Appendix 4. The complete laboratory analytical reporting package and chain-of-custody forms on the groundwater samples are provided as Appendix 5.

Chlorinated VOCs were detected in the groundwater samples collected from all 15 on-site monitoring wells. A summary of the VOC analysis on the groundwater samples is presented in Table 7. The distribution of Chlorinated VOCs in groundwater is discussed in Section 4.2 of this SI report.

Low concentrations of the aromatic VOC Toluene were detected in three (3) groundwater samples. Toluene was also detected in method blanks, and in one (1) trip blank prepared by the analytical laboratory. The Toluene detected in the groundwater samples can thus be attributed to laboratory contamination and is not inferred as indicating the presence of this compound at the site. The Data Validation and Usability Summary Report deleted the Toluene as detected in the groundwater samples, and this VOC is not shown in the validated summary tables. No other aromatic VOCs indicative of petroleum distillates were detected in the groundwater samples.

Acetone and Methylene chloride were detected in several groundwater samples with elevated chlorinated VOCs also present. Acetone and Methylene chloride were also detected in method blanks, trip blanks and field blanks. The detected Acetone and Methylene chloride likely reflect laboratory contamination and, are not inferred as reflecting the presence of these compounds at the study site.

Detected concentrations for the 8 RCRA heavy metals (Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium and Silver) were all below relative NYSDEC Class GA groundwater standards. No release of metals into the subsurface or elevated levels of metals in groundwater has been identified, and metals are not inferred as presenting an adverse impact at the study site.

No PCB compounds, pesticides or herbicides were detected in any of the groundwater samples collected from the Gowanda Day Habilitation Center in 2002. These substances are not inferred as presenting an adverse impact at the study site.

**TABLE 6
VOC LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES**

| VOC Compound | Boring/Well Number, Sample Collection Interval and Sample Date | | | | | | | | | | | |
|--|--|----------|----------|----------|----------|-----------|----------|-----------|-------------|----------|----------|--|
| | B-1/MW-1 | | B-2/MW-2 | | B-3/MW-3 | | B-4/MW-4 | | B-6/MW-6 | | B-8/MW-8 | |
| | 2' - 4' | 8' - 10' | 8' - 10' | 8' - 10' | 8' - 10' | 10' - 12' | 8' - 13' | 18' - 20' | 16' - 17.5' | 9' - 10' | | |
| NYSDEC Recommended Cleanup Objective | 07/30/02 | 07/31/02 | 07/25/02 | 07/12/02 | 07/11/02 | 07/11/02 | 07/31/02 | 07/30/02 | 07/30/02 | 07/24/02 | | |
| Trichloroethene | 14000 D | 3600 D | 8 | 3 J | ND | ND | 5 | 44 J | 330 D | ND | | |
| cis-1,2-Dichloroethene | 940 D | 170 | 12 | ND | ND | ND | 7 | 190 | 550 D | ND | | |
| trans-1,2-Dichloroethene | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Vinyl chloride | ND | 5 J | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| 2-Butanone | ND | ND | 10 J | ND | ND | ND | ND | ND | ND | ND | | |
| Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Carbon Disulfide | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Chloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Cyclohexane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| 1,2-Dibromo-3-chloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| Dichlorodifluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| 1,2-Dichlorobenzene | 7.9 ppm (7900 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| 1,3-Dichlorobenzene | 1.6 ppm (1600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| 1,4-Dichlorobenzene | 8.5 ppm (8500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| 1,1-Dichloroethane | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| 1,2-Dichloroethane | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |
| 1,1-Dichloroethene | 0.4 ppm (400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | | |

Results are ug/kg (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit
 B = Detected in Method Blank BDI = Detected in Method Blank, and estimated concentration in diluted sample

TABLE 6, Continued
VOC LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES

Boring/Well Number, Sample Collection Interval and Sample Date

| VOC Compound | NYSDEC | | | | | | | | | |
|--------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-------------------------------------|----------------------------------|--|
| | B-1/MW-1 2' - 4' 07/30/02 | B-1/MW-1 8' - 10' 07/31/02 | B-2/MW-2 8' - 10' 07/25/02 | B-3/MW-3 8' - 10' 07/12/02 | B-4/MW-4 10' - 12' 07/11/02 | B-5/MW-5 8' - 13' 07/31/02 | B-6/MW-6 18' - 20' 07/30/02 | B-7/MW-7 16' - 17.5' 07/30/02 | B-8/MW-8 9' - 10' 07/24/02 | |
| 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| cis-1,2-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| trans-1,2-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 2-Hexanone | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Isopropylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Methyl acetate | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Methylene Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Methyl tert butyl ether | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 4-Methyl-2-pentanone | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Methylcyclohexane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1,2-Trichloro-1,2,2-trifluor | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| total Xylenes | ND | ND | ND | 2 J | ND | ND | ND | ND | ND | |
| n-Propylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| P-Cymene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2,4-Trimethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| n-Butylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| sec-Butylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |

Results are ug/kg (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit

B = Detected in Method Blank BDJ = Detected in Method Blank, and estimated concentration in diluted sample

TABLE 6 Continued
VOC LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES

Boring/Well Number, Sample Collection Interval and Sample Date

| VOC Compound | NYSDEC Recommended Cleanup Objective | Boring/Well Number, Sample Collection Interval and Sample Date | | | | | | | |
|-----------------------------|--|--|-----------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------|-------------------------------|------------------------------|
| | | B-9/MW-9 8' - 10' 07/11/02 | B-10/MW-10 6' - 8' 07/10/02 | B-11/MW-11 9' - 11' 07/17/02 | B-12/MW-12 12' - 14' 07/16/02 | B-13/MW-13 10' - 12' 07/15/02 | B-14 10' - 12' 07/18/02 | B-15 12' - 14' 07/19/02 | B-16 8' - 10' 07/08/02 |
| Trichloroethene | 0.7 ppm (700 ppb) | ND | ND | 480 | 3300 | 6 | 79 | 51 | ND |
| cis-1,2-Dichloroethene | 0.3 ppm (300 ppb) | ND | ND | 110 | ND | 3 J | 12 | 7 J | ND |
| trans-1,2-Dichloroethene | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl chloride | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Acetone | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzene | 0.06 ppm (6 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromoform | | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Butanone | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | 0.6 ppm (600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Disulfide | 2.7 ppm (2700 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloromethane | | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | 1.7 ppm (1700 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | 1.9 ppm (1900 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Cyclohexane | | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane | | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | | ND | ND | ND | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane | | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 7.9 ppm (7900 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 1.6 ppm (1600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 8.5 ppm (8500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 0.4 ppm (400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |

Results are ug/kg (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit
B = Detected in Method Blank BDJ = Detected in Method Blank, and estimated concentration in diluted sample

TABLE 6 Continued
VOC LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES

| VOC Compound | NYSDEC Recommended Cleanup Objective | Boring/Well Number, Sample Collection Interval and Sample Date | | | | | | | | | |
|--------------------------------|--------------------------------------|--|-----------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------|-------------------------------|------------------------------|-----|--|
| | | B-9/MW-9 8' - 10' 07/11/02 | B-10/MW-10 6' - 8' 07/10/02 | B-11/MW-11 9' - 11' 07/17/02 | B-12/MW-12 12' - 14' 07/16/02 | B-13/MW-13 10' - 12' 07/15/02 | B-14 10' - 12' 07/18/02 | B-15 12' - 14' 07/19/02 | B-16 8' - 10' 07/08/02 | | |
| 1,2-Dichloropropane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| cis-1,2-Dichloropropene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| trans-1,2-Dichloropropene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Ethylbenzene | 5.5 ppm (5500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 2-Hexanone | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Isopropylbenzene | 5.0 ppm (500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Methyl acetate | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Methylene Chloride | 0.1 ppm (100 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Methyl tert butyl ether | 0.12 ppm (120 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 4-Methyl-2-pentanone | 1.0 ppm (1000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Methylcyclohexane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Styrene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1,2,2-Tetrachloroethane | 0.6 ppm (600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Tetrachloroethene | 1.4 ppm (1400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | 1 J | |
| Toluene | 1.5 ppm (1500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2,4-Trichlorobenzene | 3.4 ppm (3400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1,1-Trichloroethane | 0.8 ppm (800 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1,2-Trichloroethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1,2-Trichloro-1,2,2-trifluor | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Trichlorofluoromethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| total Xylenes | 1.2 ppm (1200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| n-Propylbenzene | 14 ppm (14000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| P-Cymene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2,4-Trimethylbenzene | 13 ppm (13000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,3,5-Trimethylbenzene | 3.3 ppm (3300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| n-Butylbenzene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| sec-Butylbenzene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | |

Results are ug/kg (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit
B = Detected in Method Blank BDJ = Detected in Method Blank, and estimated concentration in diluted sample

TABLE 6 Continued
VOC LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES

| VOC Compound | Boring/Well Number, Sample Collection Interval and Sample Date | | | | | | | | | |
|-----------------------------|--|----------------------|---------------------|----------------------|-----------------------|----------------------|---------------------|-----------------------|-----------------------|-----------------------|
| | NYSDEC | B-17 | B-18 | B-19 | B-20 | B-21 | B-22 | B-23 | B-23D | B-24 |
| | Recommended Cleanup Objective | 8' - 12' 07/09/02 | 5' - 6' 07/10/02 | 8' - 10' 07/24/02 | 12' - 14' 07/26/02 | 8' - 10' 07/24/02 | 4' - 6' 07/09/02 | 10' - 11' 07/25/02 | 10' - 11' 07/25/02 | 18' - 20' 07/31/02 |
| Trichloroethene | 0.7 ppm (700 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | 910 D |
| cis-1,2-Dichloroethene | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | 700 D |
| Trans-1,2-Dichloroethene | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | 3 J |
| Vinyl chloride | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Acetone | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzene | 0.06 ppm (6 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromoform | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Butanone | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | 0.6 ppm (600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Disulfide | 2.7 ppm (2700 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | 3 J |
| Chloromethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | 1.7 ppm (1700 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | 1.9 ppm (1900 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cyclohexane | | ND | ND | ND | 2 J | ND | ND | ND | ND | ND |
| Chloroform | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 7.9 ppm (7900 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 1.6 ppm (1600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 8.5 ppm (8500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 0.4 ppm (400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Results are ug/kg (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit
 B = Detected in Method Blank BDJ = Detected in Method Blank, and estimated concentration in diluted sample

**TABLE 6 Continued
VOC LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES**

| VOC Compound | NYSDEC Recommended Cleanup Objective | Boring/Well Number, Sample Collection Interval and Sample Date | | | | | | | | | | | | |
|--------------------------------|--|--|-----------------------------|------------------------------|-------------------------------|------------------------------|-----------------------------|-------------------------------|--------------------------------|-------------------------------|----|----|----|----|
| | | B-17 8' - 12' 07/09/02 | B-18 5' - 6' 07/10/02 | B-19 8' - 10' 07/24/02 | B-20 12' - 14' 07/26/02 | B-21 8' - 10' 07/24/02 | B-22 4' - 6' 07/09/02 | B-23 10' - 11' 07/25/02 | B-23D 10' - 11' 07/25/02 | B-24 18' - 20' 07/31/02 | | | | |
| 1,2-Dichloropropane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-Dichloropropene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trans-1,2-Dichloropropene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5.5 ppm (5500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Hexanone | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Isopropylbenzene | 5.0 ppm (500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl acetate | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | 0.1 ppm (100 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl tert butyl ether | 0.12 ppm (120 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone | 1.0 ppm (1000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylcyclohexane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 0.6 ppm (600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 1.4 ppm (1400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Toluene | 1.5 ppm (1500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 3.4 ppm (3400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 0.8 ppm (800 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-trifluor | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| total Xylenes | 1.2 ppm (1200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| n-Propylbenzene | 14 ppm (14000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| P-Cymene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 13 ppm (13000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 3.3 ppm (3300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| n-Butylbenzene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| sec-Butylbenzene | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Results are ug/kg (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit
B = Detected in Method Blank BDJ = Detected in Method Blank, and estimated concentration in diluted sample

**TABLE 6 Continued
VOC LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES**

| VOC Compound | NYSDEC Recommended Cleanup Objective | Boring/Well Number, Sample Collection Interval and Sample Date | | | | | | | | | |
|-----------------------------|--|--|----------------------|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|--|
| | | B-25 | B- 25D | B-26 | B-27 | B-28 | Garden Soil-N | Garden Soil-S | | | |
| | | 9' - 11' 07/23/02 | 9' - 11' 07/23/02 | 11-12' 07/23/02 | 12' - 13' 07/26/02 | 11' - 12' 07/23/02 | 0' - 0.5' 07/19/02 | 0' - 0.5' 07/19/02 | | | |
| Trichloroethene | 0.7 ppm (700 ppb) | 4 J | 11 | 160 | 130 | 6 | 1 J | 1 J | | | |
| cis-1,2-Dichloroethene | 0.3 ppm (300 ppb) | ND | 6 | 28 | 65 | ND | ND | ND | | | |
| trans-1,2-Dichloroethene | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| Vinyl chloride | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| Acetone | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| Benzene | 0.06 ppm (6 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| Bromodichloromethane | | ND | ND | ND | ND | ND | ND | ND | | | |
| Bromoform | | ND | ND | ND | ND | ND | ND | ND | | | |
| Bromomethane | | ND | ND | ND | ND | ND | ND | ND | | | |
| 2-Butanone | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| Carbon Tetrachloride | 0.6 ppm (600 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| Carbon Disulfide | 2.7 ppm (2700 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| Chloromethane | | ND | ND | ND | ND | ND | ND | ND | | | |
| Chlorobenzene | 1.7 ppm (1700 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| Chloroethane | 1.9 ppm (1900 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| Cyclohexane | | ND | ND | ND | ND | ND | ND | ND | | | |
| Chloroform | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| 1,2-Dibromo-3-chloropropane | | ND | ND | ND | ND | ND | ND | ND | | | |
| Dibromochloromethane | | ND | ND | ND | ND | ND | ND | ND | | | |
| Dichlorodifluoromethane | | ND | ND | ND | ND | ND | ND | ND | | | |
| 1,2-Dibromoethane | | ND | ND | ND | ND | ND | ND | ND | | | |
| 1,2-Dichlorobenzene | 7.9 ppm (7900 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| 1,3-Dichlorobenzene | 1.6 ppm (1600 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| 1,4-Dichlorobenzene | 8.5 ppm (8500 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| 1,1-Dichloroethane | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| 1,2-Dichloroethane | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |
| 1,1-Dichloroethene | 0.4 ppm (400 ppb) | ND | ND | ND | ND | ND | ND | ND | | | |

Results are ug/kg (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit
B = Detected in Method Blank BDJ = Detected in Method Blank, and estimated concentration in diluted sample

TABLE 6 (Continued)
VOC LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES

Boring/Well Number, Sample Collection Interval and Sample Date

| VOC Compound | NYSDEC Recommended Cleanup Objective | | B-25 | B- 25D | B-26 | B-27 | B-28 | Garden Soil-N | Garden Soil-S |
|--------------------------------|--------------------------------------|--------------------|----------|----------|--------|-----------|-----------|---------------|---------------|
| | 9' - 11' | 07/23/02 | 9' - 11' | 07/23/02 | 11-12' | 12' - 13' | 11' - 12' | 0' - 0.5' | 0' - 0.5' |
| 1,2-Dichloropropane | ND | 07/23/02 | ND | 07/23/02 | ND | ND | 07/23/02 | ND | 07/19/02 |
| cis-1,2-Dichloropropene | ND | | ND | | ND | ND | | ND | ND |
| trans-1,2-Dichloropropene | ND | | ND | | ND | ND | | ND | ND |
| Ethylbenzene | ND | 5.5 ppm (5500 ppb) | ND | | ND | ND | | ND | ND |
| 2-Hexanone | ND | | ND | | ND | ND | | ND | ND |
| Isopropylbenzene | ND | 5.0 ppm (500 ppb) | ND | | ND | ND | | ND | ND |
| Methyl acetate | ND | | ND | | ND | ND | | ND | ND |
| Methylene Chloride | ND | 0.1 ppm (100 ppb) | ND | | ND | ND | | ND | ND |
| Methyl tert butyl ether | ND | 0.12 ppm (120 ppb) | ND | | ND | ND | | ND | ND |
| 4-Methyl-2-pentanone | ND | 1.0 ppm (1000 ppb) | ND | | ND | ND | | ND | ND |
| Methylcyclohexane | ND | | ND | | ND | ND | | ND | ND |
| Styrene | ND | | ND | | ND | ND | | ND | ND |
| 1,1,2,2-Tetrachloroethane | ND | 0.6 ppm (600 ppb) | ND | | ND | ND | | ND | ND |
| Tetrachloroethene | ND | 1.4 ppm (1400 ppb) | ND | | ND | ND | | ND | ND |
| Toluene | ND | 1.5 ppm (1500 ppb) | ND | | ND | ND | | ND | ND |
| 1,2,4-Trichlorobenzene | ND | 3.4 ppm (3400 ppb) | ND | | ND | ND | | ND | ND |
| 1,1,1-Trichloroethane | ND | 0.8 ppm (800 ppb) | ND | | ND | ND | | ND | ND |
| 1,1,2-Trichloroethane | ND | | ND | | ND | ND | | ND | ND |
| 1,1,2-Trichloro-1,2,2-trifluor | ND | | ND | | ND | ND | | ND | ND |
| Trichlorofluoromethane | ND | | ND | | ND | ND | | ND | ND |
| total Xylenes | ND | 1.2 ppm (1200 ppb) | ND | | ND | ND | | ND | ND |
| n-Propylbenzene | ND | 14 ppm (14000 ppb) | ND | | ND | ND | | ND | ND |
| P-Cymene | ND | | ND | | ND | ND | | ND | ND |
| 1,2,4-Trimethylbenzene | ND | 13 ppm (13000 ppb) | ND | | ND | ND | | ND | ND |
| 1,3,5-Trimethylbenzene | ND | 3.3 ppm (3300 ppb) | ND | | ND | ND | | ND | ND |
| n-Butylbenzene | ND | | ND | | ND | ND | | ND | ND |
| sec-Butylbenzene | ND | | ND | | ND | ND | | ND | ND |

Results are ug/kg (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit
 B = Detected in Method Blank BDJ = Detected in Method Blank, and estimated concentration in diluted sample

**TABLE 7
VOC LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES**

Groundwater Monitoring Well and Sampling Date

| VOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-7D |
|---|---|----------|----------|----------|----------|----------|----------|----------|----------|
| | | 09/04/02 | 08/28/02 | 08/28/92 | 08/28/02 | 08/28/02 | 08/29/02 | 08/29/02 | 08/29/02 |
| Trichloroethene | 5.0 ug/L | 380 | 4.7J | 2.3J | 1.8J | 12 | 2.4 J | 26 | 23 |
| cis-1,2-Dichloroethene | 5.0 ug/L | 380 | 18 | 9.6 | 2.0 J | 1.7 J | 400 | 420 | 380 |
| trans-1,2-Dichloroethene | 5.0 ug/L | 4J | ND | ND | ND | ND | 3.4 J | ND | 2.1 J |
| Vinyl chloride | 2.0 ug/L | 4 J | ND | 3.1J | ND | ND | ND | 4 J | 3.3 J |
| Acetone | 25.0 ug/L | 5 J | ND | ND | ND | ND | ND | ND | ND |
| Benzene | 1.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromoform | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Disulfide | 60.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloromethane (methyl chloride) | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Cyclohexane (hexamethylene) | none: Table 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | 7.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane | 0.04 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane (ethylene dibromide) | 6 x 10-4 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |

Results are ug/L (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit
B = Detected in Method Blank BDJ = Detected in Method Blank, and estimated concentration in diluted sample

TABLE 7 Continued
VOC LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES

Groundwater Monitoring Well and Sampling Date

| VOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | MW-1 | MW-1D | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-7D |
|---------------------------------------|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | 09/04/02 | 09/04/02 | 08/28/02 | 08/28/92 | 08/28/02 | 08/28/02 | 08/29/02 | 08/29/02 | 08/29/02 |
| cis-1,3-Dichloropropene | 0.4 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 0.4 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Hexanone | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Isopropylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl acetate | none: Table 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene chloride | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl tert butyl ether | 10.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone | none: Table 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylcyclohexane | NA: Not Listed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Toluene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 1.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-Propylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p-Cymene (4-Isopropyltoluene) | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-Butylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| sec-Butylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TOTAL DETECTED VOCs: | | 768.0 | 627.2 | 22.7 | 15.0 | 3.8 | 13.7 | 405.8 | 450.0 | 408.4 |

Results are ug/L (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit

B = Detected in Method Blank BDI = Detected in Method Blank, and estimated concentration in diluted sample

TABLE 7 Continued
 VOC LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES

| VOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | MW-13 | MW-14 | MW-15 |
|---|---|----------|----------|----------|----------|----------|----------|----------|----------|
| | | 08/28/02 | 08/28/02 | 08/28/02 | 08/29/02 | 08/29/02 | 08/28/02 | 08/29/02 | 08/29/02 |
| Trichloroethene | 5.0 ug/L | 1.4 J | 4.2 J | 2.6 J | 2300 | 9600 | 250 | 180 | 320 |
| cis-1,2-Dichloroethene | 5.0 ug/L | ND | ND | ND | 2300 | 3000 | 69 | 130 | 380 |
| trans-1,2-Dichloroethene | 5.0 ug/L | ND | ND | ND | 16 | 28 | 1.3 J | 1.6 J | ND |
| Vinyl chloride | 2.0 ug/L | ND | ND | ND | 31 | 15 | ND | 3.6 J | ND |
| Acetone | 25.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzene | 1.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromoform | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Disulfide | 60.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloromethane (methyl chloride) | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Cyclohexane (hexamethylene) | none: Table 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | 7.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane | 0.04 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane (ethylene dibromide) | 6 x 10 ⁻⁴ ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.6 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 5.0 ug/L | ND | ND | ND | 3.1 J | 8.3 | ND | ND | ND |
| 1,2-Dichloropropane | 1.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |

Results are ug/L (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit
 B = Detected in Method Blank BDJ = Detected in Method Blank, and estimated concentration in diluted sample

**TABLE 7 Continued
VOC LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES**

| VOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | MW-8 | MW-9 | MW-10 | MW-11 | MW-12 | MW-13 | MW-14 | MW-15 |
|---------------------------------------|---|------|------|-------|----------|----------|----------|----------|----------|
| 2-Hexanone | 50.0 ug/L | ND | ND | ND | 08/29/02 | 08/29/02 | 08/28/02 | 08/29/02 | 08/29/02 |
| Isopropylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl acetate | none: Table 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene chloride | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl tert butyl ether | 10.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone | none: Table 3 | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylcyclohexane | NA: Not Listed | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 5.0 ug/L | ND | ND | ND | ND | 1.0 J | ND | ND | ND |
| Toluene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 1.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| N-Propylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| p-Cymene (4-Isopropyltoluene) | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| N-Butylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Sec-Butylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| TOTAL DETECTED VOCs: | | 1.4 | 4.2 | 2.6 | 4,647.0 | 12,643.0 | 315.3 | 315.2 | 730.0 |

Results are ug/L (ppb) D = Concentration detected in diluted sample ND = Not Detected J = Estimated, detected below method detection limit
B = Detected in Method Blank BDJ = Detected in Method Blank, and estimated concentration in diluted sample

3.5 Data Usability and QA/QC

The following is a synopsis of the more prominent points identified and detailed in the DUSR provided by Data Validation Services. This summary regards the usability of the complete data set of the analytical reports generated by Severn-Trent Laboratories for this investigation and resulting conclusions of the results' validity. The complete DUSR report, prepared by Data Validation Services, is included as Appendix 6.

In general the data was summarized as being usable as reported or with minor qualification as estimated. However, several areas of quality concern were presented. Most of these were related to analysis of pesticides, PCB's and cyanide:

- Pesticide data for two (2) aqueous samples is not usable due to an apparent matrix effect.
- PCB and pesticide data for one (1) soil sample is not usable due to an apparent matrix effect.
- Cyanide results for five (5) soil samples are not usable due to exceedance of allowable holding time.
- Low bias to additional sample pesticide and PCB results is indicated due to an apparent matrix effect.

The following presents quality issues identified by Data Validation Services during the course of the data usability review.

General

Field Duplicate discrepancies were discovered for several samples including groundwater media from monitoring wells MW-1 and MW-7 and soil sample from boring B-25. These discrepancies were determined to be minor and were not sufficient justification to void the data set.

Matrix Spike accuracy and precision evaluations were documented as being generally acceptable. Exceptions to this are detailed in the below section "TAL Metals/CN".

Data Completeness

Some of the original data packages generated by Severn-Trent were incomplete. Data Validation Services had to request follow-up documentation following receipts of original packages. These were provided upon request. Most of this type of omission was related to herbicide, PCB and pesticide analyses.

Several results for reporting limit and/or correct date of sample collection needed to be revised by Severn-Trent.

Several summary level data packages were incomplete lacking laboratory personnel signature on case narratives and/or correlation between method blank analysis dates.

TCL VOC's – ASP CLP and SW846

Groundwater samples processed by ASP were reported with an incorrect reporting limit of 5 ug/L. This limit should be representative of the low calibration standard concentration at listed as 10 ug/L. Detected values between 5-10 ug/L should be flagged as estimated "J".

Surrogate and internal standard recoveries were accepted for mostly all samples as were holding times and instrument tunes for all samples reviewed by ASP.

The presence of Methylene chloride, acetone and toluene are considered external contamination due to the correlating presence of the three analytes in method, trip and/or equipment blanks. Values for these analytes reported should be edited and considered non-detect.

Twenty-one results for various soil and groundwater samples were flagged as concentrations exceeding the calibration range of the instrument for that specific analysis ("E"). The analyte in each of these results were identified as cis-1,2-dichloroethene and Trichloroethene. Results for these values should be derived from subsequent dilutions of these samples flagged as "DL." Results provided in this SI Report and used for VOC postings were documented as the DL values where applicable and not the E values. The remainder of the data set can be taken directly from initial sample analyses.

Two soil matrix spikes from samples collected at borehole locations B-01 and B-06 showed some discrepancy regarding recovery percentages. Several results of the latter were to be considered estimated ("J").

Tentatively identified Compounds (TICs) flagged as being found in associated blank ("B") as well as the sample are considered external contamination and should not be considered part of the sample data set representing field conditions.

TCL SVOC's – ASP CLP and SW846

The presence of di-n-butylphthalate in various groundwater samples and soils sampled from B-25 (9-11 feet) are considered external contamination due to the correlating presence of the three analytes in method and/or rinse blanks. Values for these analytes reported should be edited and considered non-detect. The same holds true for analyte bis(2-ethylhexyl)phthalate in the groundwater sample from monitoring well MW-02.

The result for the soil sample from borehole B-25 (9-11 feet) was flagged as a concentration exceeding the calibration range of the instrument for that specific analysis ("E"). The analyte of this result was identified as buytlybenzylphthalate. The result for this value should be derived from subsequent dilutions of this sample flagged as "DL." Results provided in this SI Report and used for VOC postings were documented as the DL values where applicable and not the E values.

Several calibration standards for ASP processing were noted as not showing acceptable response and should be flagged as qualified estimated ("UJ").

Tentatively identified Compounds (TICs) flagged as being found in associated blank ("B") as well as the sample are considered external contamination and should not be considered part of the sample data set representing field conditions. Results flagged as aldol condensates ("A") should also be rejected on this basis.

TCL Pesticides/PCB and Herbicides – CLP and SW846

Reporting limits for herbicides were reported unnecessarily high for the soil samples.

Sample results for groundwater samples collected from monitoring wells MW-06 and MW-12, as well as the soil sample collected from B-17 (8-12 feet) are not usable due to extremely low recovery (<10%) of surrogate standards. These samples could not be recollected due to the boreholes either being filled with grout or being converted to monitoring wells prior to the performance of the data usability study. Based on other usable pesticide data derived from other groundwater sampling locations further pesticide sampling may not be warranted. Confirmation of soil concentrations may need to be verified in subsequent investigations.

It appears that there was a negative processing effect on groundwater samples from MW-01 Duplicate (pesticides) and MW-06 and MW-12 (PCB's) leading to conclusion that these sample results be flagged as qualified estimated ("UJ").

TAL Metals/CN – CLP-M and SW846

Cyanide results for soil samples from B-17 (8-12 feet), Garden North, B-25 (9-11 feet) and B-21 (8-10 feet) are not usable due to the samples being analyzed outside of the suitable holding time (greater than 31 days) for this compound. In addition the cyanide results from B-01 (8-10 feet) and in the Field Blank collected on July 31, 2002 are qualified as estimated due to a holding time of between 24-25 days.

Soil analyzed from the sample collected at B-01 and the groundwater collected from MW-01 showed low recoveries of several analytes warranting estimated flagged results.

3.6 Nature and Extent of Contamination

Measurable concentrations of the chlorinated solvent Trichloroethene (TCE) were detected in soil and groundwater samples collected from the Day Habilitation Center site. Associated breakdown products of TCE, consisting of cis-Dichloroethene (cis-DCE), trans-Dichloroethene (trans-DCE) and Vinyl Chloride were also detected in soil and groundwater samples, showing the same general distribution pattern as TCE. The predominant contaminant based on highest concentrations and widespread distribution is TCE. Down gradient from the source area, cis-DCE was detected at higher concentrations than the parent compound at select locations.

The distributions of the detected chlorinated VOCs are shown on attached posting maps. Figure 10 shows a posting of detected chlorinated VOCs in the soil samples. The concentrations for the detected chlorinated VOCs are posted by each sample location. Figure 11 shows a posting of detected chlorinated VOCs in the groundwater samples, with detected concentrations plotted by each monitoring well.

The occurrence of volatile organic compounds, limited to the chlorinated VOC - TCE and various decay/daughter VOCs has been identified and characterized at the subject parcel. The former loading dock/storage area along the southern portion of the Day Habilitation Center building has been identified as the probable source area, with groundwater contamination extending northward. The nature and extent of contamination is discussed in this section corresponding to the environmental media sampled.

Extent of Impacted Groundwater

Utilizing data from the laboratory analysis on the groundwater samples, a groundwater contamination plume has been identified extending from the inferred source area, at the south side of the Day Habilitation Center building. TCE concentrations in groundwater samples ranged from 1.4 ppb at MW-8 to 9,600 ppb, with the highest levels found beneath the building, in the vicinity of Room 50, Client Cafeteria (monitoring well MW-12). TCE Breakdown products, cis-DCE, trans-DCE and Vinyl chloride were also detected in groundwater samples within the area of impacted groundwater.

Surface to near-surface introduction of the chlorinated VOC - TCE has apparently occurred immediately south of the building, south of the Client Cafeteria/Room 50, in the former loading dock area. The highest concentrations of chlorinated VOCs were detected in monitoring wells MW-11 and MW-12, located inside the southern portion of the Day Habilitation Center building near Room 50.

The aerial extent of the contamination that exceeds 1,000 ppb (total VOCs) covers an area of approximately 9,700 square feet and is inferred to be located entirely beneath the Day Habilitation Center building's foundation. The plume is elongated concurrent with the apparent direction of groundwater flow. The extent of contaminated groundwater is discussed in Section 4.3, Contaminant Migration.

4.0 INTERPRETATION OF SITE INVESTIGATION DATA

The findings, conclusions, and recommendations based on the SI activities at the Gowanda Day Habilitation Center property are summarized below.

4.1 Hydrogeologic Setting

Subsurface geologic units present at the Gowanda Day Habilitation Center site include the following in ascending order:

- Bedrock, consisting of Devonian-age shale and siltstone deposits (not encountered);
- Glacial till (lodgment or ablation-type glacial till);
- Alluvium deposits from a stream/fluviol-type depositional regime, consisting of fine gravel, sand, and silt; and
- Flood plain deposits consisting of fine sand, silt, and clay.

The lowest unconsolidated deposit consists of a glacial till unit, which presumably lies directly on bedrock, an Upper Devonian gray shale interbedded with thin gray siltstones of the Canadaway Group. Bedrock was not encountered in any of the borings during this SI.

The glacial till is a relatively dense, impermeable unit composed of clay, silt fine sand and little fine gravel. This deposit marks the base of the shallow water table at the subject parcel, and occurs at a depth of 13.5 feet to 22.25 feet below grade.

Glacial till can be characterized as lodgment till, ablation till or flow till. Lodgment till is deposited at the base of glacial deposits, and is deposited under the extreme weight and pressure of a moving glacier, spearing deposits onto the bedrock surface. Ablation till consists of sediments in upper sections of a glacier, accumulating as ice melts and the sediments are compressed by the weight of the overlying portion of the glacier. Ablation till deposits are often massive without any recognizable structures. Flow till deposits can occur in the uppermost section of a glacier, often at the surface of the melting glacier and can be interspersed with lacustrine deposits. Flow till deposits can contain deformed sedimentary structures indicative of mass movement in a partial lacustrine environment. The glacial till encountered at the subject parcel may reflect local ablation till and/or flow till deposits. Based on the clay content observed in the till, relatively low moisture content and dense characteristics (based on blow counts recorded during test boring installation) this unit serves as an aquitard, providing an effective barrier, limiting further vertical migration of impacted groundwater.

The surface of the underlying glacial till, which marks the base of the unconsolidated water table aquifer at the study site decreases in elevation in a northerly direction. The glacial till deposit surface elevation is shown on Figure 5. A filled-in stream channel on the top of the glacial till surface also is apparent at the study site, as an elongated trough or depression. This feature may be a former stream channel that scoured into the relatively impermeable till surface, and was

subsequently filled in with permeable alluvial deposits. This apparent trough is oriented in a southwest-to-northeast direction beneath the Gowanda Day Habilitation Center building. The general decrease in the till surface and the apparent buried stream channel may be influencing the flow pattern of the water table aquifer, and may also have an effect on the movement of the chlorinated solvents in the water table, such as restricting movement to the east.

The primary water-bearing unit underlying the site consists of permeable alluvial sand and gravel of varying composition. This material was deposited by post glacial-stream systems flowing from elevated areas south of the site northward over the glacial till, similar to present day Cattaraugus Creek. The alluvial deposits in the southern portion of the study area.

The relatively high energy of the fluvial environment that deposited the alluvial sand and gravel deposits resulted in scouring and erosion of the underlying glacial till deposit, with channels eventually accumulating with sand and gravel. Buried stream channels can influence groundwater flow patterns due to relatively higher hydraulic conductivity compared to the underlying glacial till and to less permeable, finer grained sand and silt deposits that may accumulate adjacent to the channels. These buried channels may also serve as pathway for the migration of contaminated groundwater.

The flood plain deposits are approximately 6 feet thick, but range up to 12 feet in the southern portion of the study area. Based on the higher percentage of silt in this deposit, relative to the underlying alluvial sand and gravel deposits, this unit may retard the upward movement of vapors in the vadose zone beneath the building. The concrete slab foundation for the Day Habilitation Center building and the underlying silt flood plain deposits may be limiting the movement of compounds that volatilize from contaminated groundwater into the building. The majority of the flood plain deposits are unsaturated, although some infiltration of precipitation does occur through this unit providing recharge to groundwater. The lower portions of flood plain deposits were also saturated in the southern monitoring wells, i.e. MW-1 and MW-2.

Groundwater occurs in the alluvial sand and gravel unit under unconfined (water table) conditions with saturated thickness of the aquifer ranging from approximately 8.6 to 10.8 feet. The saturated thickness of the aquifer is greater at the southern portion of the study site, and thinner at the eastern and northern areas. Groundwater flow direction is in a generally northerly direction, corresponding with the decrease in the till surface. The water table aquifer likely discharges either into Cattaraugus Creek or into outwash or flood plain deposits approximately 2,400 feet north of the subject parcel. Cattaraugus Creek eventually discharges into Lake Erie, approximately 13 miles to the northwest of the Village of Gowanda.

Hydraulic conductivity measured at the groundwater monitoring wells range from 1.001×10^{-3} to 1.403×10^{-3} cm/sec (2.838 to 3.978 ft/day). Groundwater seepage velocity in the direction of flow has been estimated at 0.281 to 0.327 feet per day based on aquifer testing at the monitoring wells. These values are only estimates and significant variations may exist due to the heterogeneous nature of the aquifer.

Recharge to the water table aquifer at the subject parcel occurs predominately from up-gradient sources to the south. Although local vertical infiltration of precipitation can occur, the presence of asphalt and the building footprint will reduce such an effect.

The Village of Gowanda is serviced by a municipal water supply system. Residents in the study area are served with municipal water supply and connected to sanitary sewer, and groundwater is likely unaffected by domestic use.

4.2 Contaminant Characterization

During the Site Investigation completed in 2002, a total of 50 discrete samples were collected for laboratory analysis. This analysis included 33 soil samples (31 test boring samples and 2 surface soil samples from the garden area) and 17 groundwater samples. This total includes duplicate samples but does not include field blanks or trip blanks.

Chemicals of concern were selected based on concentration, frequency of detection, and distribution. Table 8 shows the physical characteristics of the chemical compounds detected in the soil and groundwater at the Day Habilitation Center site. The frequency and range of the chlorinated VOCs in the soil and groundwater samples are summarized in Table 9.

**TABLE 8
PHYSICAL PROPERTIES OF DETECTED CHLORINATED VOCs**

| Chlorinated VOC | Solubility in Water | Maximum Detected Concentration | Specific Gravity Water =1 | Vapor Pressure |
|--------------------------|---------------------|--------------------------------|---------------------------|-------------------|
| Trichloroethene | 1,100 mg/L | 1.4 mg/L (ppm) | 1.46 | 60 mm at 20° C |
| Cis-1,2 Dichloroethene | 800 mg/L | 0.94 mg/L (ppm) | 1.28 | 200 mm at 25° C |
| Trans-1,2 Dichloroethene | 600 mg/L | 0.01 mg/L (ppm) | 1.26 | 200 mm at 14° C |
| Vinyl Chloride | 1.1 mg/L | 0.005 mg/L | 0.92 | 2,660 mm at 25° C |
| 1,1-Dichloroethene | 100 mg/L | 0.0083 mg/L | 1.218 | 500 mm at 20° C |
| Tetrachloroethene | 150 mg/L | 0.001 mg/L (ppm) | 1.626 | 14 mm at 25° C |

Reference: K. Vershueren, "Handbook of Environmental Data on Organic Chemicals", 2nd Ed, 1983.

The chlorinated VOC - Trichloroethene was the most commonly detected compound. Biotic decay products cis-1,2-Dichloroethene, trans-1,2-Dichloroethene and Vinyl Chloride were also widely detected. These four (4) chlorinated VOCs are the contaminants of concern at the study site. The chlorinated VOC 1,1-Dichloroethene was detected in two (2) groundwater samples, MW-11 and MW-12. This VOC is also a decay/daughter product from TCE or related chlorinated VOCs. A related chlorinated VOC, Tetrachloroethene, was detected in a single groundwater sample, from MW-12, at a concentration of 1.0 ug/L. No other chlorinated solvents were detected in any of the soil or groundwater samples.

**TABLE 9
FREQUENCY AND RANGE OF DETECTED CHLORINATED VOCs**

| Chlorinated VOC | Frequency Detected/Total Samples | Concentration Range (ppb) | Solubility in Water |
|---|-------------------------------------|------------------------------|-------------------------|
| Soil Samples (includes surface samples from garden area) | | | |
| Trichloroethene | 18/33 samples | 14,000 ppb – 3 ppb | Not applicable |
| cis-1,2-Dichloroethene | 14/33 samples | 940 ppb – 3 ppb | Not applicable |
| Trans-1,2-Dichloroethene | 2/33 samples | 10 ppb – 3 ppb | Not applicable |
| Vinyl Chloride | 1/33 samples | 5 ppb | Not applicable |
| Groundwater Samples | | | |
| Trichloroethene | 17/17 samples | 9,600 ppb – 1.4 ppb | 1,100 ppm (110,000 ppb) |
| cis-1,2-Dichloroethene | 14/17 samples | 3,000 ppb – 1.7 ppm | 800 mg/L |
| Trans-2,3-Dichloroethene | 8/17 samples | 28 ppb – 1.3 ppb | 600 mg/L |
| Vinyl Chloride | 8/17 samples | 31 ppb – 3.1 ppb | 1.1 mg/L |
| 1,1-Dichloroethene | 2/17 samples | 3.1 ppb – 8.3 ppb | 100 mg/L |
| Tetrachloroethene | 1/17 samples | 1.0 ppb | 150 mg/L |

TCE was detected in groundwater samples from all on-site groundwater monitoring wells, including wells located up-gradient and cross-gradient of the inferred source area. The TCE concentrations at the up-gradient and cross-gradient locations are significantly lower than at the source area, and were detected at concentrations below NYSDEC Class GA Standards. The presence of TCE up-gradient of the inferred source area may be the result of various hydraulic dispersion mechanisms, historic flooding which may have flushed TCE onto the ground surface in a wide area, or may reflect an undefined up-gradient source area.

Other volatile organic compounds detected in groundwater samples consist of Acetone, Methylene Chloride and Toluene. These compounds have been attributed to laboratory contamination and not site conditions due to detection of these compounds in trip blanks, field blanks and/or quality assurance samples. The discussion of the presence of lab contaminants is summarized in Section 5.4 and documented in the DUSR report, provided in Appendix 6.

4.3 Contaminant Migration

Surface to near-surface introduction of the TCE has apparently occurred immediately south of the building, adjacent to the Client Cafeteria/Room 50, in the former loading dock area. This release was possibly a non-point, unspecific source of discharge, such as indiscriminate surface spillage or dumping. No evidence has been found that a UST was ever present. Regardless of the source, the chemical release(s) likely occurred prior to 1982, the year that New York State Offices began occupying the building.

Plotting the distribution of VOCs in the soil and groundwater can assist in the evaluation of possible source areas for the historic introduction of TCE. Comparison of the distribution of detected VOCs in test boring soil samples, both vertically and laterally and comparing this distribution pattern to values detected in groundwater samples can also assist in evaluating

locations where and at what depth substances were released into the subsurface. Postings for detected Chlorinated VOCs in soil and groundwater samples are shown on Figures 10 and 11.

The approximate extent of the greatest impact to groundwater is shown visually on Figure 12. The area of highest detected chlorinated solvents in groundwater samples is an area beneath the building slab, in the vicinity of monitoring wells MW-12, MW-11, MW-1 and MW-15. The highest total VOC concentrations were detected in the sample from monitoring well MW-12, in the hallway immediately north of the Client Cafeteria Room 50 (TVOC value of 12,643 ppb). The next highest TVOC value was detected in the groundwater sample from well MW-11, located in the hallway north of the Nurse Clinic Room 39, approximately 33 west of Room 50.

The distribution of detected chlorinated VOCs in the test boring soil samples show that the sample with the highest TVOC concentrations was obtained at a shallow depth from the boring for monitoring well B-1/MW-1. This boring is located in the asphalt driveway approximately five feet south of the building, across from the Nurse Clinic Room 39. At this location two (2) subsurface soil samples were collected for analyses. The highest TCE concentration (14,000 ppb) was detected in the sample collected in the 2-4 foot interval. This value represented the highest TCE and total TVOC concentrations detected in the soil samples. The lower sample at the same boring, collected at the water table at the 8-10' interval, showed a lower TCE value, 3,600 ppb. The lower soil sample at boring B-1/MW-1 contained the second highest TCE value.

The decrease in chlorinated VOCs at the B-1/MW-1 location indicates a near surface release mechanism may have been responsible for introducing TCE into the subsurface at the subject parcel. The increase in total VOCs in groundwater down-gradient from this location indicates migration from the area of release. VOC contamination has likely migrated from the suspected area of release at the southern side of the Day Habilitation Center building downward to the confining till layer and in solution with the natural flow of groundwater.

Contaminant concentrations drop off both to the north and to the south (back towards the site), indicating an area of highest contamination corresponding to the bowl feature in the till. Left untreated, the apparent source of TCE in the soil south of the building will continue to contaminate groundwater leading to further migration of contaminants in the groundwater.

The extent of the area of greatest impact to groundwater shows correlation with subsurface geologic conditions determined from test borings, shown on cross sections A-A¹ and B-B¹. The highest concentration of VOCs that has dissolved into groundwater has moved northward to beneath Room 50, decreasing in concentrations beneath the center of the building slab. The aerial extent of the contamination that exceeds 1,000 ppb covers an area of approximately 9,700 square feet and is inferred to be located entirely beneath the Day Habilitation Center building's foundation. The extent of the portion of the plume exceeding 1,000 ppb extends approximately 170 feet from the inferred source area, extending to the Client Cafeteria/Room 124 on the north side of the building.

5.0 EXPOSURE PATHWAYS ANALYSIS/ QUALITATIVE RISK ASSESSMENT

An Exposure Pathways Analysis and Qualitative Risk Assessment has been conducted using data gathered during the 2002 Site Investigation and information obtained during the 2000 studies. The Exposure Pathways Analysis has been conducted to evaluate potential routes of exposure by which people or the environment may come into contact with the contaminant associated with the site.

5.1 Applicable Standards, Criteria and Guidance (SCGs)

In order to identify potential exposure pathways, applicable standards, criteria and guidance (SGSs) need to be identified. For this review SCGs are categorized as compound specific, location specific and action specific. These categories are defined as the following:

Compound Specific

These are health or risk-based numerical values or methodologies which when applied to site specific conditions result in the establishment of numerical values for substances of interest detected in the soil and groundwater samples (chlorinated VOCs). These values establish levels for substances that may be found in or discharged directly to the environment, i.e. via surface water discharge or present in groundwater.

Location Specific

These SCGs are restrictions placed on the concentrations of hazardous substances or the conduct of activities solely because they occur in a specific location.

Action Specific

These SCGs are usually technology or activity-based requirements or limitations on actions taken with respect to hazardous waste management and site cleanup.

Identified SCGs

The following SCGs have been identified as applicable to the Gowanda Day Habilitation study site:

Soil SCGs

- NYSDEC Division of Hazardous Waste Remediation Technical and Administrative Guidance Memorandum (TAGM) 4046 (HWR-94-4046), "Determination of Soil Cleanup Objectives and Cleanup Levels", Revised January 24, 1994.
- NYCRR Part 371, Identification and Listing of Hazardous Wastes.

- NYSDEC Division of Hazardous Substance Regulation Technical and Administrative Guidance Memorandum (TAGM) 3028, "Contained in Criteria for Environmental Media," dated November 1992.

Groundwater SCGs

- NYCRR Part 700-705, Water Quality Regulations for Surface Water and Groundwater.
- NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations", Reissued June 1998, April 2000 Addendum.

Waste SCGs

- NYCRR Part 371, Listing of Hazardous Waste.
- NYSDEC Division of Hazardous Substance Regulation TAGM 3028, "Contained in Criteria for Environmental Media," dated November 1992.

5.2 Human Exposure Pathways Analysis

This Human Exposure Pathway Analysis has been performed to qualitatively evaluate the potential for current or future adverse human health effects that might result from exposure to contaminants at or migrating from the Gowanda Day Habilitation Center property. This analysis was performed assuming current site conditions, in the absence of any further action to control or remove the identified contamination. The analysis provides a discussion of potential exposure to site contaminants, identification of media of concern, and identification of potential receptors based on available data from this SI and previous studies, including indoor air quality (IAQ) testing performed in 2000. This analysis has been prepared to assist in determining the need for remediation.

5.2.1 Identification of Media of Concern

Based on the information developed during the 2000 IAQ study, the 2000 environmental assessments and information obtained during this SI, chemical compounds of potential concern to various environmental media have been identified. Compounds of potential concern were selected based on frequency of detection, range of concentrations, and potential for migration.

On-Site Release of Contamination

Based on past records, environmental studies, and observed contaminant distribution and migration patterns, there has not been any single major release of contamination identified from the facility. The main source of contamination is apparently the result of uncontrolled surface releases of chlorinated solvents from past operations at the facility.

These releases likely occurred at or near the former south loading dock area at the southern portion of the building, while the facility was being utilized for industrial activities prior to New York State agencies occupying the facility in approximately 1982. Historic site drawings and anecdotal information provided by former site personnel indicate that vehicles could pull into the building, with parking available adjacent to loading docks.

The facility is not registered with the NYSDEC as a chemical bulk storage facility. However, such registrations were not required until the mid-1980s, after the industrial use of the facility had ceased and various State agencies occupied the building. Visual observations of the facility did not reveal any evidence that would be indicative of past use of chemical storage tanks, such as fill ports, vent pipes or other features associated with storage tanks.

The set of plans for the 1987-1988 renovation made no mention or provided any details for the removal or handling of any underground storage tanks. Plans did call for filling in loading docks in the vicinity of Room 50-Client Cafeteria. As-built drawings dated 1988 make no mention concerning the removal or consideration of any known chemical storage tank or related features.

Migration of the detected chlorinated VOCs has apparently occurred as dissolved constituents in the ground water possibly from product that historically infiltrated vertically from source locations through the vadose zone into the aquifer. Chlorinated VOCs remain in the soil above the water table in the vicinity of the source area. The presence of chlorinated VOCs in near-surface areas is based on the distribution of detected TCE concentrations at test boring/monitoring well MW-1. Laboratory analysis on two (2) soil samples at this location showed a decrease in VOCs with depth.

The general category of chemical compounds that exist in the shallow, unconfined aquifer system are chlorinated VOCs. The VOCs detected in vadose zone soil samples, above the water table will likely continue to migrate into and dissolve into the groundwater, which is flowing in a northerly direction. Migration of VOCs will continue. No free-phase product was detected during this investigation, and detected levels of VOCs in groundwater samples are below maximum solubility levels. The migration of groundwater through areas of high VOCs may serve as a mechanism for propagation of contaminated groundwater in the down-gradient direction.

Table 10 identifies potential release sources, release mechanisms, and receiving media of concern for past, current, and future releases in the absence of any remedial action.

TABLE 10
IDENTIFICATION OF ENVIRONMENTAL MEDIA OF CONCERN

| Media of Concern | Potential Release Mechanism | Receiving Medium |
|--------------------------|---|---|
| Contaminated Soil | Volatilization | Vadose zone soil beneath the building |
| | Adsorption and Absorption on to soil particles | Subsurface soil at source areas |
| | Vertical migration | Groundwater |
| Contaminated Groundwater | Groundwater flow | Groundwater downgradient |
| | Volatilization | Vadose zone |
| | Extraction via pumping Discharge to Thatcher Creek or Cattaraugus Creek | Water supply systems Surface soil Surface water |

5.2.2 Identification of Exposure Pathways

The various exposure pathways, by which people could potentially come into contact with the contaminants associated with the site, either now or in the future, are summarized in Table 11. The scenarios involving exposure to off-site surface water and sediments were eliminated due to the nature and extent of contamination. All available data indicates contaminants are subsurface and have not reached surface water bodies, although impact to Thatcher Creek has not been evaluated.

The following is a list of specific conditions used in the evaluation of exposure pathways.

- The ground surface immediately adjacent to the Gowanda Day Habilitation Center is paved with asphalt. This greatly reduces the potential for direct contact with contaminated soil.
- The subject parcel and surrounding area is serviced by municipal water supply service. No on-site water supply wells are present. No local use of groundwater has been reported by local agencies or identified in review of available records.
- Wastewater at the subject parcel discharges to municipal sanitary sewer lines at Industrial Place. No on-site septic systems have been identified.
- Parking lot catch basins and storm sewers are present on the subject parcel. These discharge to municipal sewers at Industrial Place.
- One (1) storm water catch basin, observed west of the subject parcel building, discharges to Thatcher Creek.

A tributary to Thatcher Creek passes beneath the southwestern portion of the subject parcel. This stream flows through a conduit beneath an asphalt parking lot and a portion of the grass yard/pavilion west of the Day Habilitation Center.

**TABLE 11
EXPOSURE PATHWAY ANALYSIS**

| Exposure Media or Route of Exposure | Exposure to On-Site Occupants | Exposure to Construction Workers/Subsurface | Exposure to off-site Population |
|--|---|--|---|
| Contaminated Soil | Limited: Site is paved or covered with building footprint | Yes, if excavation occurs to the water table | No |
| Groundwater | No: no use of groundwater | Yes, if excavation occurs to the water table | Only if groundwater is extracted. No use of groundwater identified. |
| Ingestion | No | No | No |
| Direct Contact to groundwater | No | Yes | No |
| Inhalation of Vapors | Yes | Yes | Possible: Further evaluation required |

5.2.3 Summary of Human Exposure Pathway Analysis

The applicable SCG for groundwater in the area has been assumed to be NYSDEC GA standard (best usage, drinking water). However, groundwater in the area is currently not used for drinking water. All residential dwellings are reported by local agencies as served with municipal water. The potential for direct contact with groundwater may occur if shallow well points are used within the plume for irrigation or other non-potable purposes.

Measurable impacts to indoor air quality within the building, associated with volatilization from the groundwater plume beneath the building, have been identified as a source of potential direct exposure to VOCs through inhalation. The 2000 IAQ study did detect chlorinated VOCs inside the Day Habilitation Center building at concentrations that did indicate VOCs were present at various levels that may pose health concerns.

Potential impacts to off-site residential indoor air that may be associated with the groundwater plume have been identified as a potential route for direct exposure to VOCs through inhalation. Further field work needs to be completed to better define current conditions between the Day Habilitation Center property and residences to the north.

On-site/utility workers could be exposed during excavation or subsurface maintenance activities via dermal contact with waste materials, inhalation of vapors and airborne particulates when working in the area of wastes or near a waste treatment system (if implemented), and incidental ingestion due to soiled hands.

5.3 Habitat-Based Exposure Assessment

A habitat-based exposure assessment is performed to determine if an impact to wildlife may exist as a result of contamination that is present at a given study site. Field observations were made in conjunction with the environmental sampling and laboratory analysis to determine if a habitat-based exposure assessment is necessary for the Gowanda Day Habilitation VCA Site Investigation.

The potential impacts or routes of exposure to wildlife that were considered include but are not limited to the following:

- Direct contact with contaminants at the surface by animal life on or near the site.
- Surface storm runoff carrying contaminants of contaminated sediment to nearby surface water.
- Impacts to surface water via groundwater discharge.
- Uptake of contaminants by plant life on or near the site.
- Consumption of contaminated plants by animals in the area.

Field observations at the apparent source area for the compounds of concern (chlorinated solvents), in the areas at and adjacent to the south side of the Day Habilitation Center building, did not reveal any readily apparent evidence of waste material or contamination at the surface. The ground surface in this portion of the study is either paved with asphalt, or is beneath the building footprint. The grass yard south of the Day Habilitation Center building was free of any indications of stressed vegetation.

No evidence of stressed vegetation on-site or on nearby properties down-gradient of the site was observed. The extent of contamination identified at the subject parcel is present in the subsurface and is not impacted by surface runoff during storm events. No evidence of direct surface discharge (i.e. springs) of impacted groundwater was observed on the subject parcel property.

No stressed vegetation or staining was observed along the banks of Thatcher Creek. The plume of impacted groundwater extends to the north/northwest from the southern side of the Day Habilitation Center building. TCE was detected in the groundwater samples collected from the western monitoring wells, MW-9 and MW-8, but at levels significantly below the inferred plume, and both TCE values were below NYSDEC Class GA standard (5.0 ug/L). No chlorinated VOCs were detected in any of the subsurface soil samples collected from the western and southwestern portions of the subject parcel (B-16, B-17, B-21, MW-9 and MW-8).

Chlorinated VOCs (TCE, cis-DCE, trans-DCE and Vinyl Chloride) were detected in both the groundwater sample and subsurface soil collected from monitoring well MW-7, located near the northwest corner of the subject parcel. Concentrations did exceed relevant SCGs. The plume of

impacted groundwater does extend to the MW-7 area. The extent and concentration of any impacted groundwater beyond MW-7 has not been determined. It is possible that impacted groundwater down-gradient of the MW-7 area extends to the banks of Thatcher Creek. Thatcher Creek discharges to Cattaraugus Creek north of the subject parcel. Potential impact to the sediments in the eastern stream bank and/or discharge into Thatcher Creek is a potential exposure pathway that requires further evaluation.

Based on lack of vegetation in the immediate area, no exposed wastes, the presence of asphalt/building footprint overlying the plume of impacted groundwater, no direct impact to wildlife is apparent for the majority of the study site. Potential impact at the northwestern portion of the study site, in the vicinity of MW-7 is limited to the subsurface, and does not present a direct impact to wildlife. Impacted groundwater in this area is approximately 10 feet below grade, below the root zone at which plant uptake occurs. The contamination at the subject parcel does not appear to be adversely impacting wildlife, and no further habitat-based exposure assessment appears to be warranted

6.0 CONCLUSION

The Gowanda Day Habilitation Center site consists of a former industrial facility/renovated to office use located at Four Industrial Place in the Town of Persia. Presumably hazardous wastes were spilled or released on the ground surface at the south side of the building, former loading dock area, during the course of industrial operations. Apparent non-point source releases occurred prior to site use by various New York State agencies commencing in 1982 or the 1987-1988 building renovation.

The site and resulting area of impacted groundwater is underlain by moderately to highly permeable alluvium comprised of a varying mix of sand and gravel, with buried stream channels filled with coarser sand and gravel that serve as preferential flow paths and in part control groundwater flow. Groundwater occurs within the alluvium under unconfined, or water table, conditions. Below the alluvium exists a dense glacial till that serves as a barrier to further downward migration of contaminants. The surface of this till slopes downward from the source area to its deepest point beneath the northern portion of the property, where a trough shaped feature has been eroded during post-glacial stream flow. This is likely a buried stream channel scoured into the underlying glacial till. The water bearing alluvium is covered with flood plain silt and clay. The finer grained flood plain deposits, in conjunction with the concrete slab foundation for the Day Habilitation Center building may retard or limit any upward movement of vapors that volatilize from the impacted groundwater.

The following deposits were identified and delineated at the subject parcel:

- Fill Deposits, present beneath the building slab and asphalt and consisting of fine gravel and fine to coarse sand and re-worked native deposits;
- Flood Plain Deposits consisting of mottled Brown and gray generally stiff laminated silt and fine sand;
- Alluvial Deposits, consisting of generally medium dense and permeable brown and gray fine to medium gravel and fine to coarse sand with trace silt; and
- Glacial till, consisting of generally hard and relatively impermeable gray clay and silt, with trace of fine gravel.

The shallow water table is present in the Flood Plain and Alluvial Deposits. The glacial till layer, present at a depth that varies between 13 - 22 feet beneath ground surface, is a relatively impermeable deposit that marks the base of the overburden water table at the subject parcel.

The shallow groundwater at the subject parcel is present at depths ranging from 4.5 feet to 11 feet below ground surface. The August 2002 shallow groundwater at the subject property is shown to be flowing in a northerly direction. The December 2002 water table drawing shows that the shallow water table at the subject parcel flows in the northerly direction, in a similar flow direction as the August 2002 pattern. The average depth to groundwater was approximately 8.18

feet below ground surface. The water table surface showed a rise of approximately 0.57 feet compared to the August 2002 values, likely to seasonal precipitation.

A rise in the underlying glacial till appears to limit migration of groundwater and the accompanying VOC to the east.

Waste solvents are the contaminants of concern for the site, consisting of Trichloroethene (TCE) and related decay products cis-1,2-Dichloroethene, trans-1,2-Dichloroethene and Vinyl Chloride. The VOC 1,1-Dichloroethene was detected in two (2) groundwater samples, in the inferred area of greatest impacted groundwater (MW-11 and MW-12). Tetrachloroethene was detected in a single groundwater sample from MW-12 at a concentration of 1.0 ug/L.

TCE was detected in groundwater samples from all on-site groundwater monitoring wells, including wells located up-gradient and cross-gradient of the inferred source area. The TCE concentrations at the up-gradient and cross-gradient locations are significantly lower than at the source area, and were detected at concentrations below NYSDEC Class GA Standards. The presence of TCE up-gradient of the inferred source area may be the result of various hydraulic dispersion mechanisms, historic flooding which may have flushed TCE onto the ground surface in a wide area, or may reflect an undefined up-gradient source area.

The TCE released at an on-site surface or near-surface source area has apparently migrated vertically through the vadose zone to the shallow water table aquifer. Some TCE has dissolved in groundwater as it migrated through the aquifer. The area of the greatest impact to groundwater extends from the source area at the south side of the building to directly beneath the building. Significant concentrations of VOCs exist within the plume, greater than 10,000 ppb VOCs.

Highest groundwater impact has been detected 120 feet north of the presumed source area, to an area beneath the building, indicating that contamination continues to migrate northward. Left untreated, the TCE in the vadose zone source may continue to dissolve into the groundwater and migrate with groundwater towards the downgradient direction. Without implementing engineering controls it is possible that the plume of impacted groundwater will continue to migrate northward. Remediation of the aquifer is necessary for the full protection of human health and the environment.

Volatilization of chlorinated VOCs from the groundwater plume into homes along Torrance Place has been identified as a possible exposure pathway for human contact. Further investigation needs to be undertaken to determine the extent of any impacted soil and/or groundwater that extends off-site to the north of the subject parcel. Further investigation is also needed to determine the potential presence of VOCs in soil gas that may propagate towards the residences north of the Gowanda Day Habilitation Center property.

Volatilization of chlorinated solvents from the contaminant plume beneath the Gowanda Day Habilitation building slab has apparently contributed to previous indoor air quality issues at the facility. Soil contamination is present immediately south of the building. Chlorinated VOCs detected directly beneath the building indicate the greatest impact. TCE was detected in indoor air quality samples collected when the facility was active. Any future use of the facility may be

impacted from the migration of volatized VOCs from groundwater and impacted soils in the vadose zone into the building. Volatilization of chlorinated solvents in the plume beneath the building may continue until source controls are implemented.

Another potential for human contact with contamination is through direct contact with groundwater and soil below the water table during activities such as utility maintenance, both on site and throughout the area of the plume. All residents in the area are reportedly served with municipal water. Use of groundwater from sources such as private well points for gardening would provide direct exposure to contaminants, through both dermal contact and inhalation of vapors. However, no private wells were observed or reported by the Village of Gowanda Municipal officials.

7.0 RECOMMENDATIONS

Based on review of the results of investigative work completed to date, OMRDD/DASNY anticipates that the following actions will be taken upon approval of the NYSDEC and NYDOH.

- Further investigative work is necessary to fully define the extent of impacted groundwater. This is to include installation of off-site groundwater monitoring wells north of the subject parcel. Additional sampling of up-gradient and cross-gradient monitoring wells may assist in evaluating possible off-site sources that are contributing to groundwater contamination.
- Investigative work is necessary to evaluate potential impact to Thatcher Creek.
- Further investigative work is necessary to address the potential for off-site volatilization of chlorinated solvents from the contaminant plume immediately north of the subject parcel, to allow for evaluation of indoor air quality impacts to the residences along Torrance Place. This work will consist of soil gas sampling along the subject parcel's northern property perimeter. The results of sampling along the property perimeter will assist in evaluating off-site occurrence of chlorinated VOCs in the unsaturated zone above the water table.
- Bergmann Associates has prepared on behalf of OMRDD and DASNY a draft work plan for Interim Remedial Measures (IRM) for the Gowanda Day Habilitation Center. Development of the draft IRM included evaluation of remedial alternatives to remove the contaminant mass, initiate remediation of impacted groundwater beneath the day Habilitation Center building and prevent future migration of VOC impacted groundwater. The draft IRM work plan has been submitted to the NYSDEC for review.

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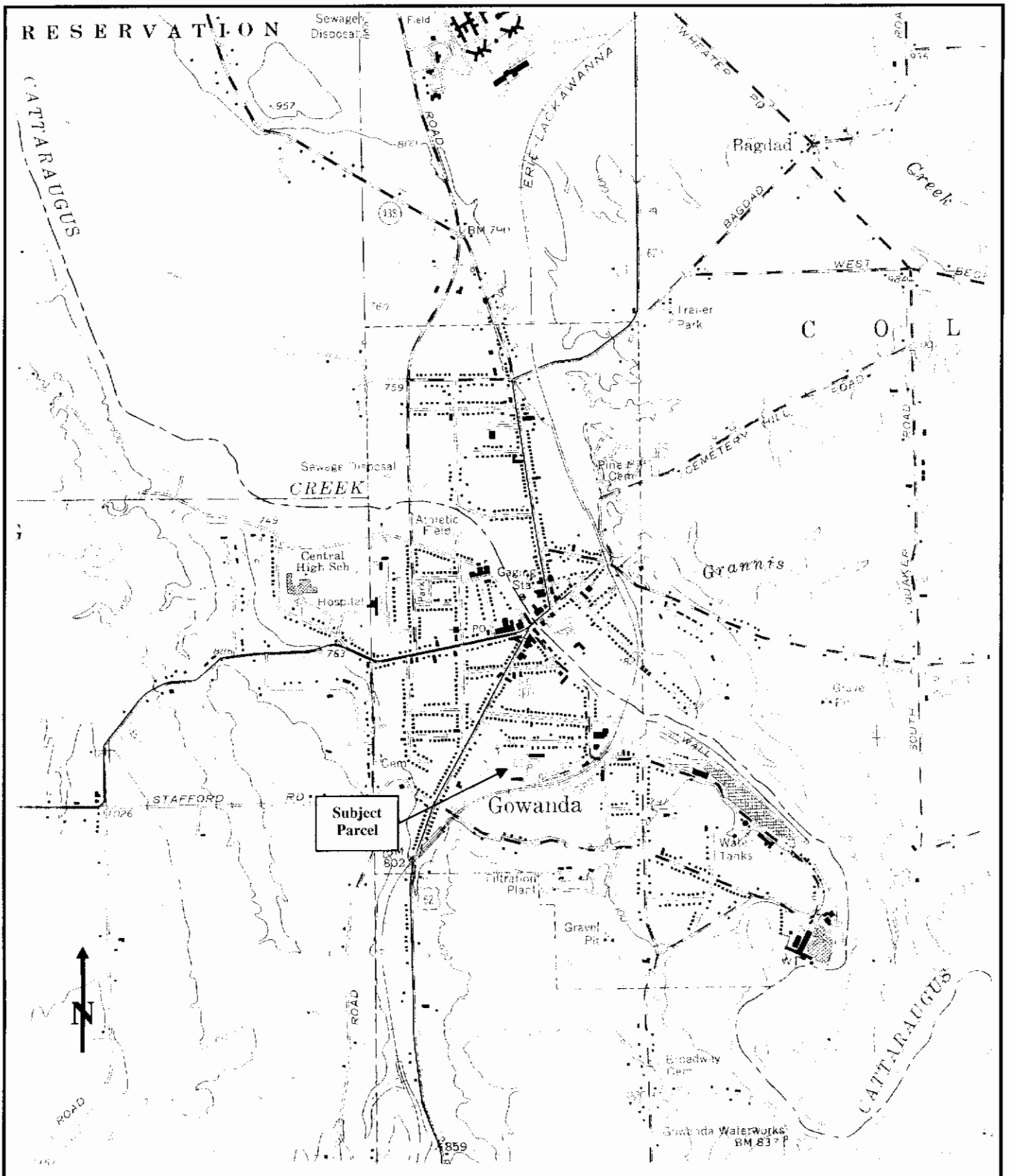
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New York State Museum Map and Chart Series #40, "Surficial Geologic Map of New York, Niagara Sheet, 1988.

Tesmer, Irving H., "Geology of Cattaraugus County, New York", Buffalo Society of Natural Sciences Bulletin Vol.27.

FIGURES



GOWANDA DAY HABILITATION CENTER
Village of Gowanda, Cattaraugus County, New York
Voluntary Cleanup Program
SITE LOCATION MAP

USGS 7.5 Minute Topographic Map, Gowanda, NY Quadrangle, 1976
 Scale: 1 inch = 2,000 feet

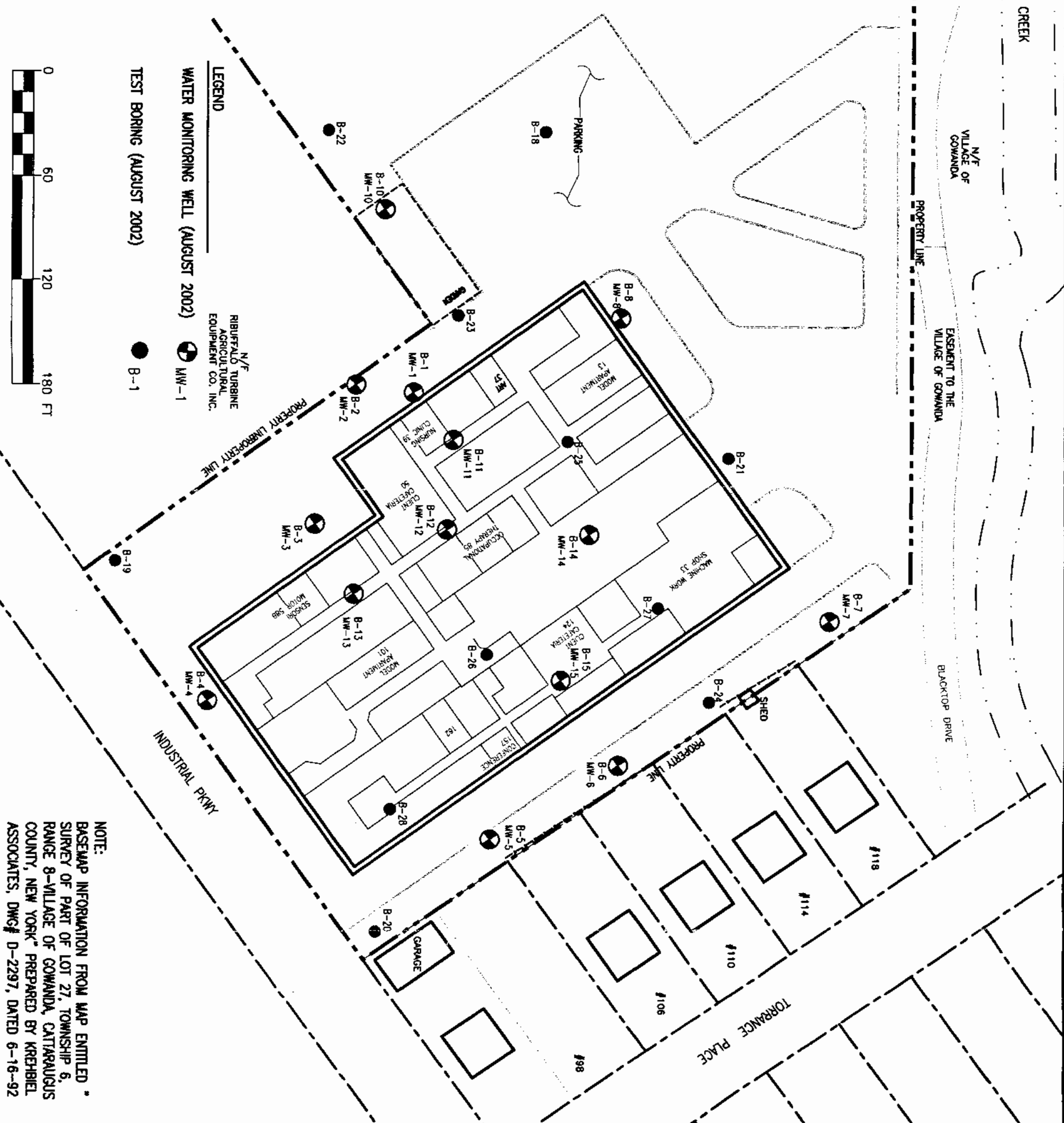
Date
 April 2003

Figure
1

MONITORING WELLS & BORING LOCATIONS

| SAMPLE | NORTH | EAST | ELEVATION* | DESCRIPTION |
|--------|----------|---------|------------|-------------|
| MW-1 | 10005.75 | 9770.81 | 778.51 | ASPH. |
| MW-2 | 9963.26 | 9795.25 | 778.52 | RIM |
| MW-3 | 10036.20 | 9859.98 | 778.23 | PVC |
| MW-4 | 10085.20 | 9967.62 | 778.36 | ASPH. |
| MW-5 | 10243.23 | 9880.34 | 778.38 | RIM |
| MW-6 | 10249.86 | 9795.88 | 778.08 | PVC |
| MW-7 | 10248.65 | 9850.24 | 778.59 | ASPH. |
| MW-8 | 10038.09 | 9649.08 | 778.61 | RIM |
| MW-9 | 9945.36 | 9430.13 | 778.39 | PVC |
| MW-10 | 9909.53 | 9724.56 | 778.93 | RIM |
| MW-11 | 10041.23 | 9767.54 | 781.10 | PVC |
| MW-12 | 10082.02 | 9799.74 | 781.35 | RIM |
| MW-13 | 10082.09 | 9864.35 | 778.93 | PVC |
| MW-14 | 10130.64 | 9734.67 | 781.10 | RIM |
| MW-15 | 10190.80 | 9795.30 | 778.82 | PVC |
| MW-16 | 9736.69 | 9324.99 | 778.82 | RIM |
| MW-17 | 9795.99 | 9475.17 | 778.82 | PVC |
| MW-18 | 9925.09 | 9623.75 | 778.82 | RIM |
| MW-19 | 9988.66 | 9965.74 | 778.82 | PVC |
| MW-20 | 10249.88 | 9964.03 | 778.82 | RIM |
| MW-21 | 10139.46 | 9844.31 | 778.82 | PVC |
| MW-22 | 9653.67 | 9724.51 | 778.82 | RIM |
| MW-23 | 9653.81 | 9724.51 | 778.82 | PVC |
| MW-24 | 10248.76 | 9724.51 | 778.82 | RIM |
| MW-25 | 10248.76 | 9724.51 | 778.82 | PVC |
| MW-26 | 10154.55 | 9821.64 | 778.82 | RIM |
| MW-27 | 10187.79 | 9728.14 | 778.82 | PVC |
| MW-28 | 10196.52 | 9917.18 | 778.82 | RIM |

* ELEVATIONS ARE RELATIVE TO MEAN SEA LEVEL



NOTE:
 BASEMAP INFORMATION FROM MAP ENTITLED "SURVEY OF PART OF LOT 27, TOWNSHIP 6, RANGE 8-VILLAGE OF GOWANDA, CATTARAUGUS COUNTY, NEW YORK" PREPARED BY KREBIEL ASSOCIATES, DWG# D-2297, DATED 6-16-92

DASNY
 GOWANDA DAY
 HABILITATION CENTER
 4 INDUSTRIAL PLACE
 GOWANDA, NY

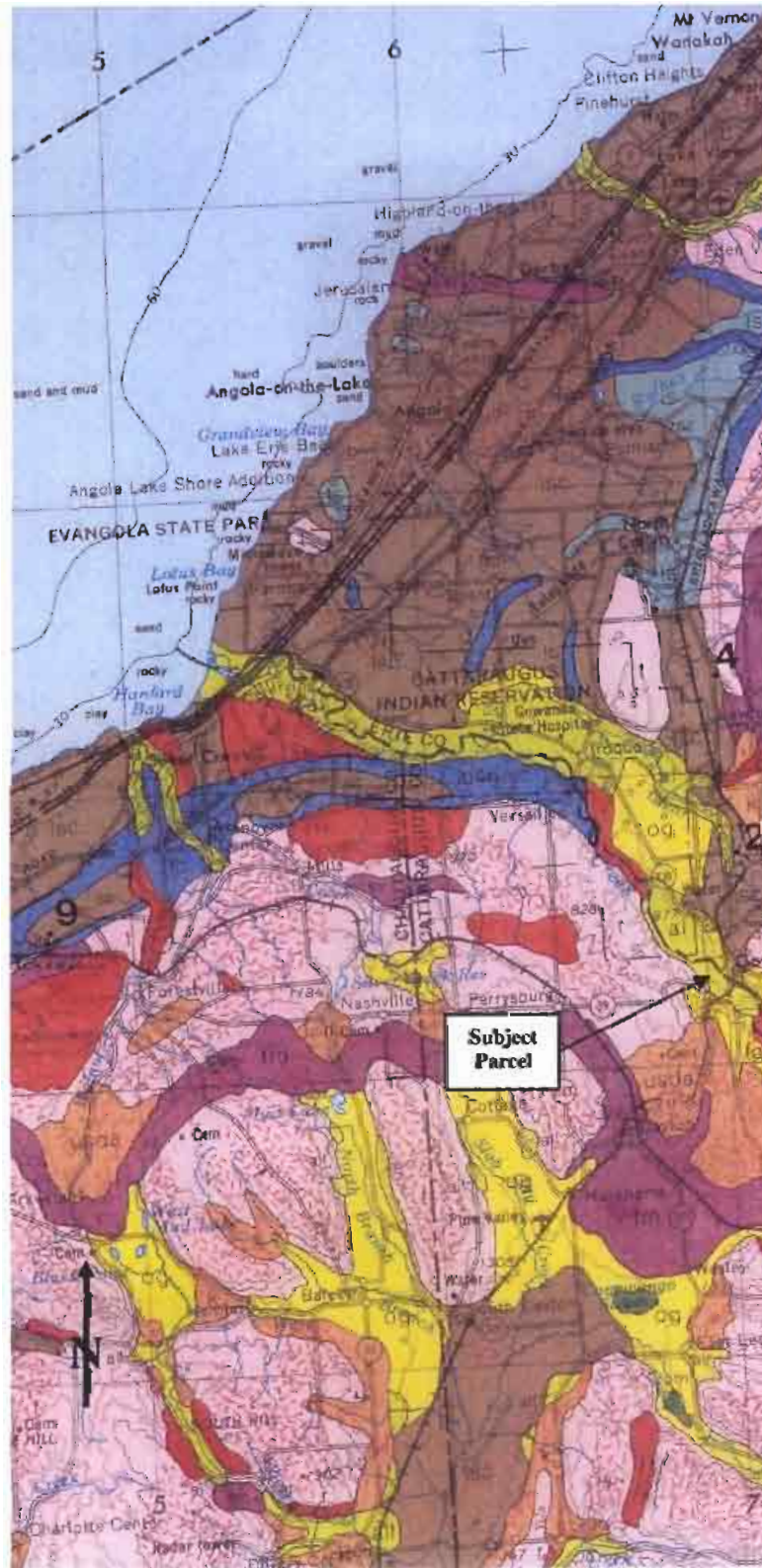
B E R G M A N N
 associates
 Engineers / Architects / Surveyors

DRAWING TITLE:
 TEST BORING AND
 MONITORING WELL
 LOCATION MAP

BY:
 T. BOLT
CHKD BY:
 E. JONES, J. MARSCHNER
DRAWING DATE:
 MARCH 17, 2003

JOB #:
 5596.03
SHEET #:
 FIG-2

SCALE: 1" = 60'



LEGEND

- 
s — Recent deposits
 Generally confined to floodplains within a valley, well-sorted, non-calcareous, fine sand to gravel. In larger valleys may be overlain by silt; subject to frequent flooding, thickness 1-10 meters.
- 
al — Alluvial fan
 Fan shaped accumulations, poorly stratified silt, sand and boulders at the foot of steep slopes, generally permeable.
- 
lc — Lacustrine silt and clay
 Generally laminated silt and clay deposition in proglacial lakes, generally calcareous, potential land instability, thickness variable up to 100 meters; stipple overprint where bedrock is within 1-3 meters of the surface.
- 
ls — Lacustrine sand
 Sand deposits associated with large bodies of water, generally a near-shore deposit or near a sand source, well sorted, stratified, generally quartz sand, thickness variable (2-30 meters).
- 
og — Outwash sand and gravel
 Coarse to fine gravel with sand, proglacial fluvial deposition, well rounded and stratified, generally finer texture away from ice border, may be calcareous beyond Wisconsin glacial limit, thickness variable (2-20 meters).
- 
fg — Fluvial gravel
 Same as outwash sand and gravel except deposition farther from glacial ice margin.
- 
mls — Un differentiated stratified drift assemblage
 Dominantly clay, silt and sand, limited gravel and diamerco, stratification includes undisturbed and deformed laminations, ice contact structures, lenticular discontinuous bodies of gravel and flow till, may represent distribute, Holocene and local ice margin environments, thickness variable (3-30 meters).

Subject Parcel

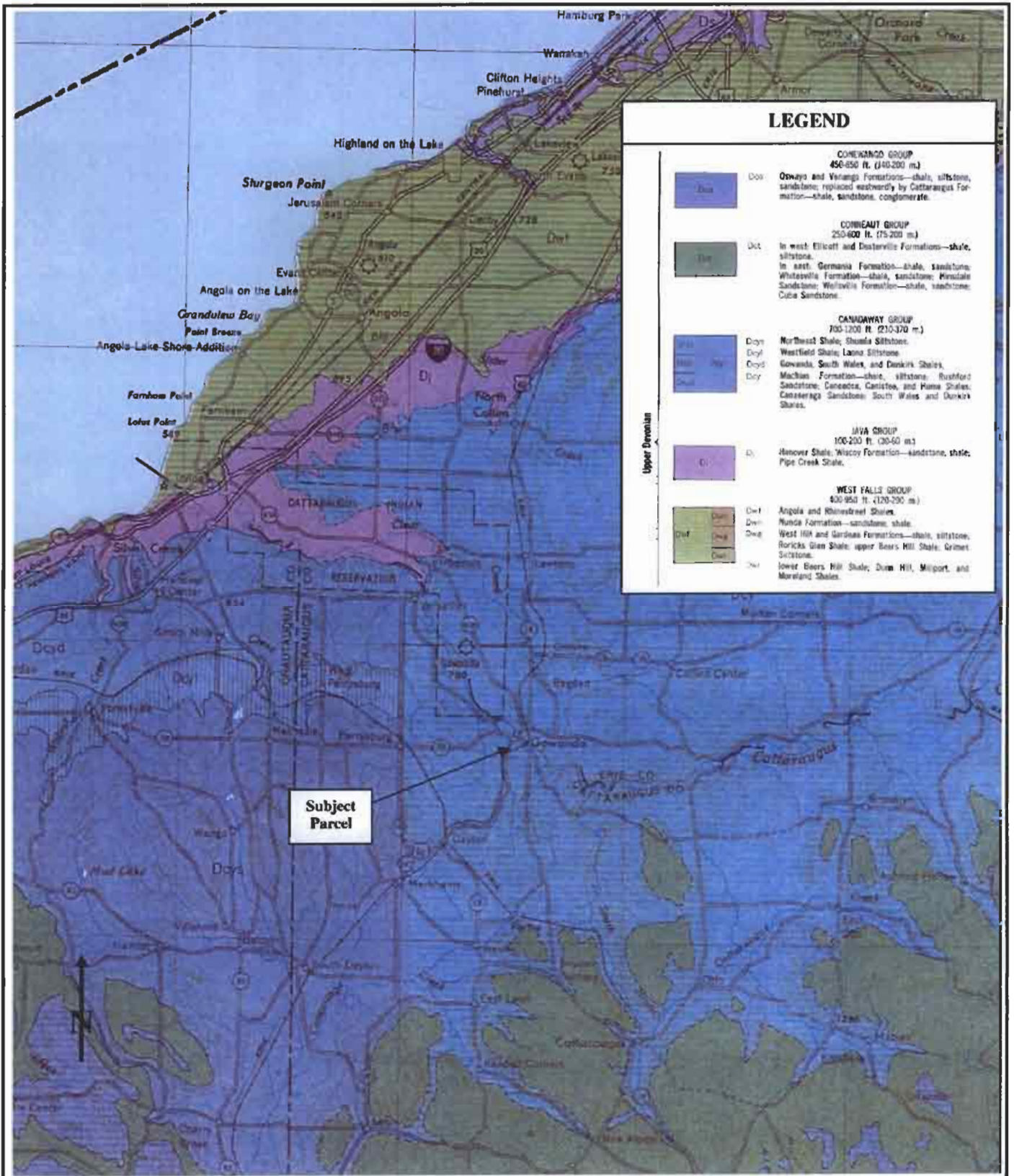


GOWANDA DAY HABILITATION CENTER
Village of Gowanda, Cattaraugus County, New York
Voluntary Cleanup Program
SURFACE GEOLOGY MAP

Surficial Geologic Map of New York, Niagara Sheet, 1988
 Approximate Scale: 1:250,000 (1 inch = 4 miles)

Date
April 2003

Figure
3



Subject Parcel

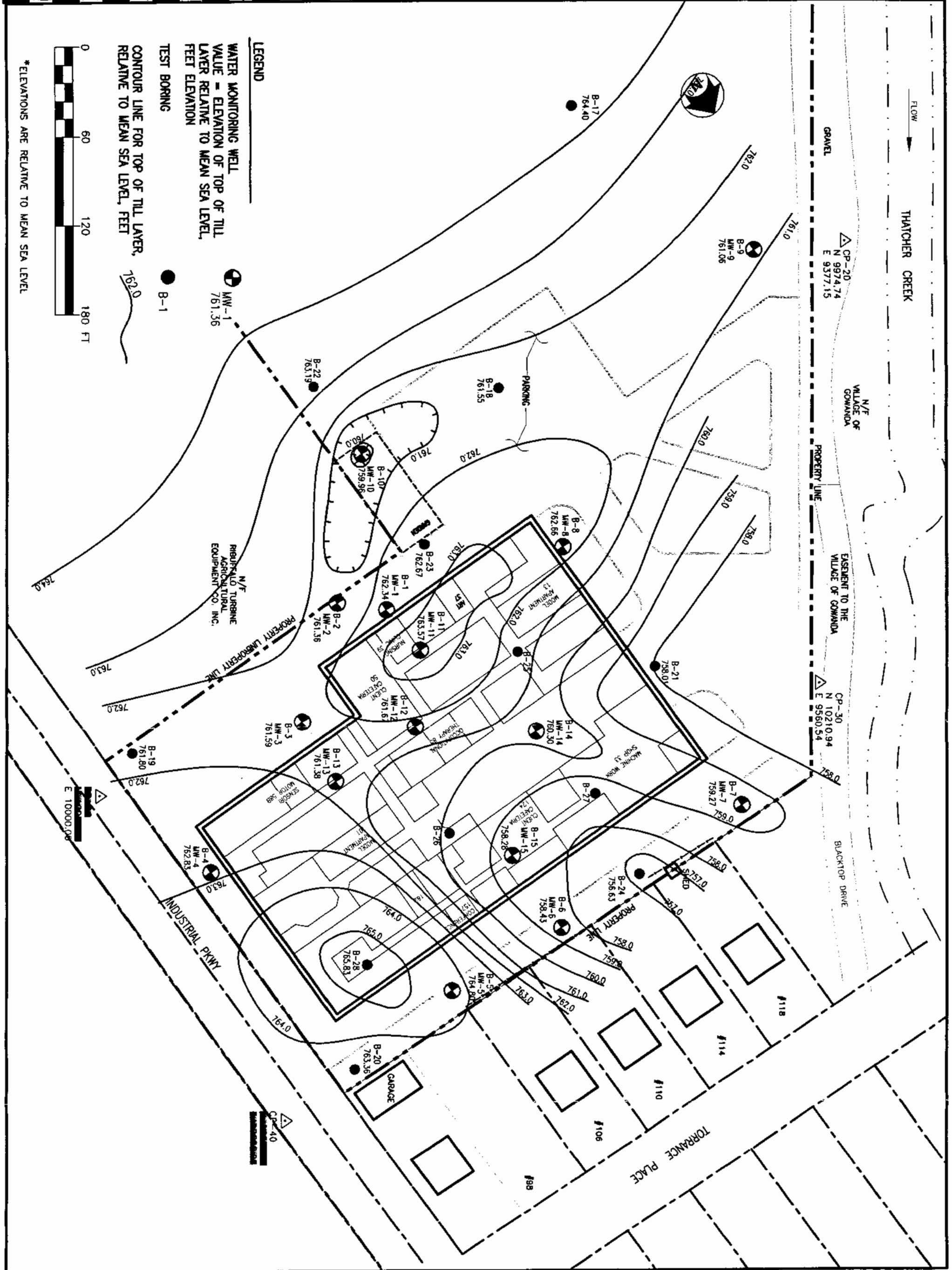


GOWANDA DAY HABILITATION CENTER
Village of Gowanda, Cattaraugus County, New York
Voluntary Cleanup Program
BEDROCK GEOLOGY MAP

Geologic Map of New York, Niagara Sheet, 1970
 Approximate Scale: 1:250,000 (1 inch = 4 miles)

Date
April 2003

Figure
4

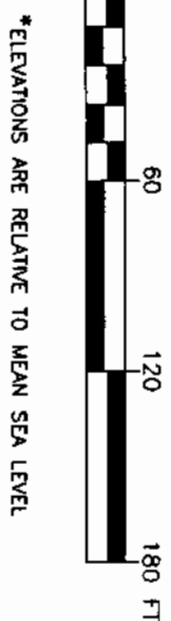


LEGEND

WATER MONITORING WELL
 VALUE = ELEVATION OF TOP OF TILL LAYER RELATIVE TO MEAN SEA LEVEL, FEET ELEVATION

TEST BORING

CONTOUR LINE FOR TOP OF TILL LAYER, RELATIVE TO MEAN SEA LEVEL, FEET



THATCHER CREEK

FLOW

CP-20
 N 9974.74
 E 9377.15

N/F VILLAGE OF GOWANDA

PROPERTY LINE

ESEMENT TO THE VILLAGE OF GOWANDA

CP-30
 N 10210.94
 E 9560.54

BLACKTOP DRIVE

N/F RIBBONALD TURBINE AGRICULTURAL EQUIPMENT CO. INC.

INDUSTRIAL PKWY

TORRANCE PLACE

DASNY

GOWANDA DAY
 HABITATION CENTER
 4 INDUSTRIAL PLACE
 GOWANDA, NY

B

B E R G M A N N
 associates
 Engineers / Architects / Surveyors

DRAWING TITLE:
 GLACIAL TILL
 DEPOSIT SURFACE
 ELEVATION MAP

BY:
 T. BOLT

CHKD BY:
 E. JONES

DRAWING DATE:
 MARCH 5, 2003

JOB #:
 5596.03

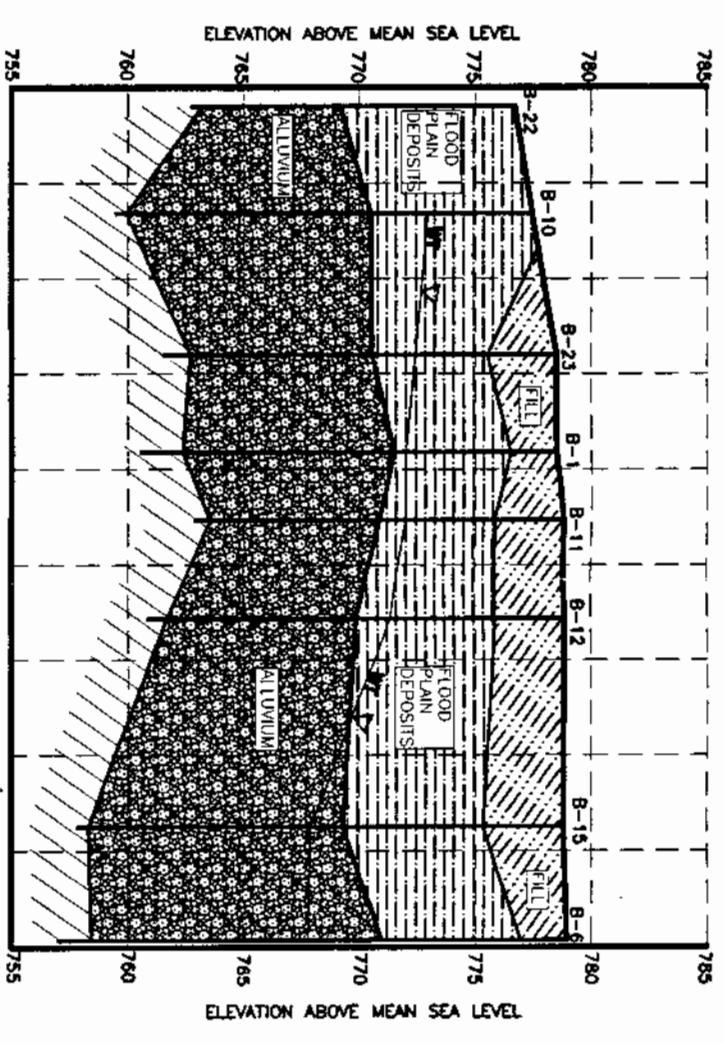
SHEET #:
 FIG-5

SCALE: 1" = 60'

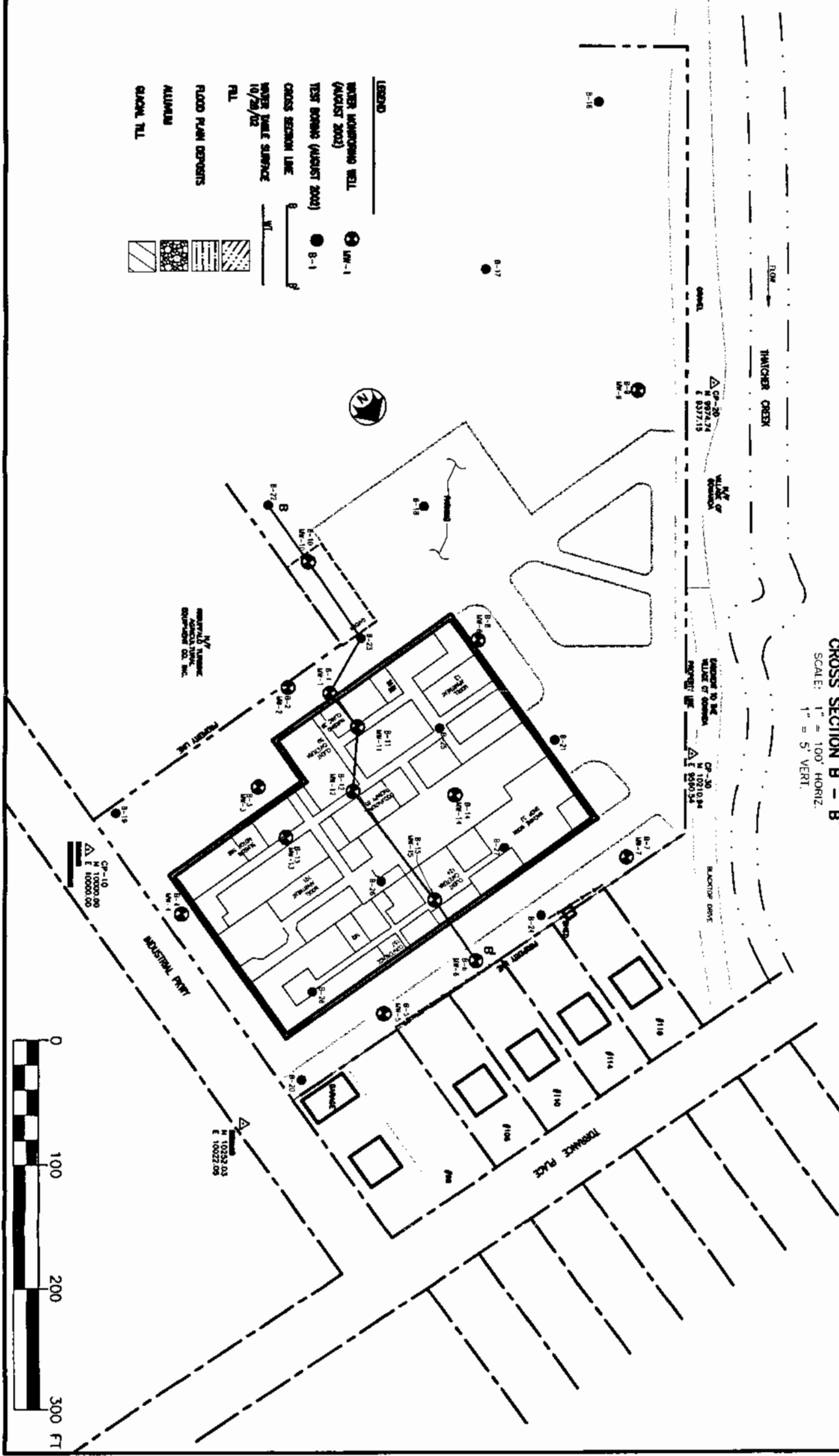
MONITORING WELLS & BORING LOCATIONS

| SAMPLE | NORTH | EAST | ELEVATION* | DESCRIPTION |
|--------|----------|---------|------------|-------------|
| WM-1 | 10008.75 | 9770.81 | 778.91 | ASPH. |
| WM-2 | 9983.39 | 9793.35 | 778.92 | RIM |
| WM-3 | 10004.20 | 9849.98 | 778.38 | PVC |
| WM-4 | 10085.20 | 9987.82 | 778.86 | PVC |
| WM-5 | 10243.23 | 9880.34 | 778.80 | ASPH. |
| WM-6 | 10249.88 | 9795.88 | 778.83 | RIM |
| WM-7 | 10248.85 | 9850.24 | 781.30 | CASE |
| WM-8 | 10038.08 | 9848.08 | 780.48 | RIM |
| WM-9 | 9945.36 | 9430.15 | 782.84 | CASE |
| WM-10 | 9908.53 | 9724.56 | 779.48 | CASE |
| WM-11 | 10041.23 | 9787.34 | 778.82 | PVC |
| WM-12 | 10082.02 | 9796.74 | 778.83 | RIM |
| WM-13 | 10082.09 | 9844.35 | 778.87 | FLOOR |
| WM-14 | 10130.84 | 9734.87 | 778.82 | PVC |
| WM-15 | 10180.80 | 9785.30 | 778.76 | RIM |
| B-1 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-2 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-3 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-4 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-5 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-6 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-7 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-8 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-9 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-10 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-11 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-12 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-13 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-14 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-15 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-16 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-17 | 9728.88 | 8324.98 | 780.48 | RIM |
| B-18 | 9728.88 | 8324.98 | 780.48 | RIM |

*ELEVATIONS ARE RELATIVE TO MEAN SEA LEVEL



- LEGEND**
- WATER MONITORING WELL (AUGUST 2002)
 - TEST BORING (AUGUST 2002)
 - CROSS SECTION LINE
 - WATER TABLE SURFACE (6/29/02)
 - FILL
 - FLOOD PLAIN DEPOSITS
 - ALLUVIUM
 - SANDY FILL



DASNY
GOWANDA DAY
HABILITATION CENTER
4 INDUSTRIAL PLACE
GOWANDA, NY

B E R G M A N N
Associates
Engineers / Architects / Surveyors

DRAWING TITLE:
GEOLOGIC
CROSS SECTION
B - B'

BY: T. BOLT
CHKD BY: E. JONES, J. MARSCHNER
DRAWING DATE: MARCH 17, 2003

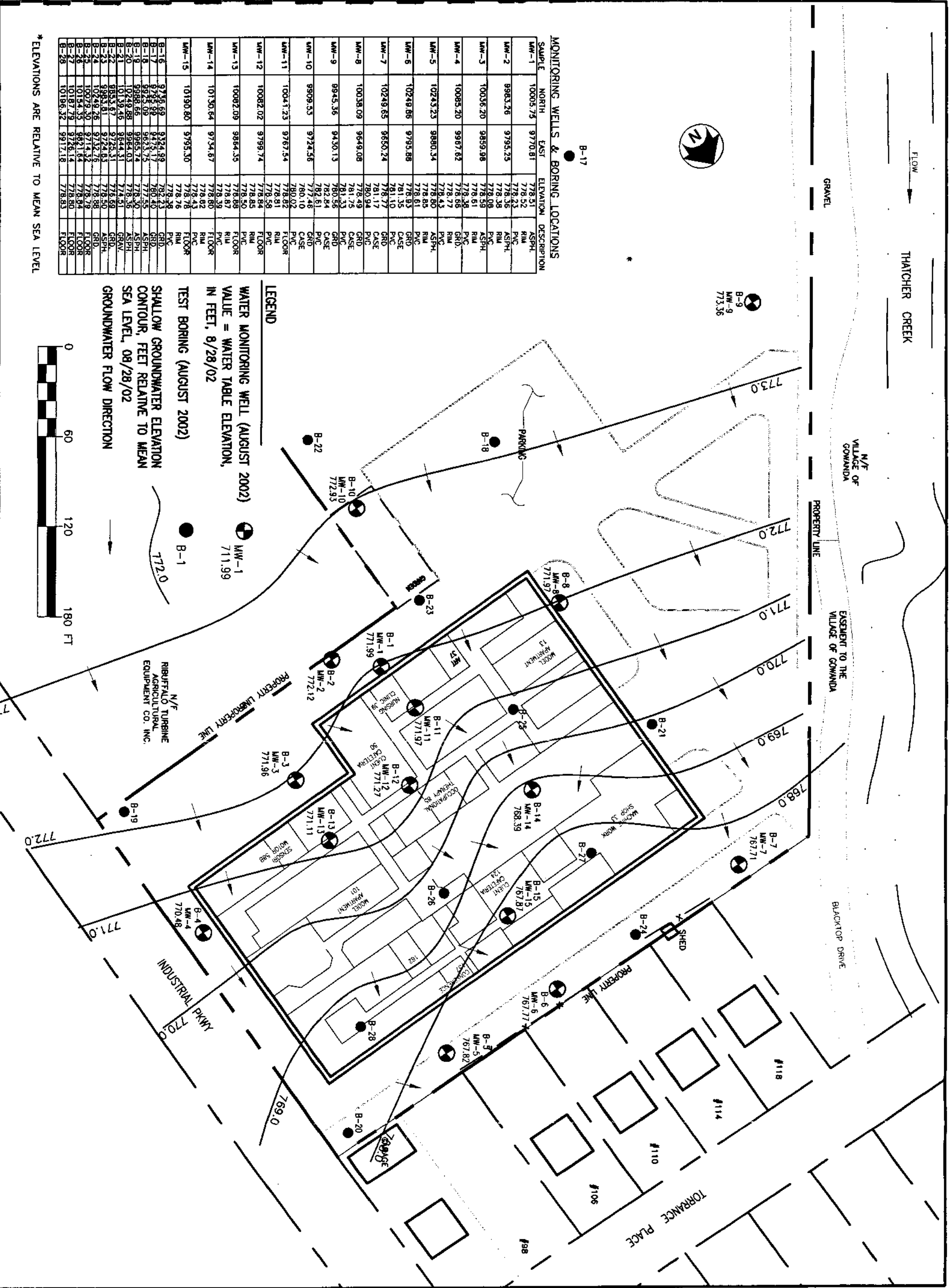
JOB #: 5596.03
SHEET #: FIG-7
SCALE: 1" = 100'

DRAWING TITLE:
 SHALLOW WATER
 TABLE SURFACE &
 GROUNDWATER
 FLOW, AUGUST 2002

BY:
 T. BOLT
CHK'D BY:
 E. JONES, J. MARSCHNER
DRAWING DATE:
 MARCH 17, 2003

JOB #:
 5596.03
SHEET #:
 FIG-8
NY State Professional Seal of T. Bolt, No. 11111, State of New York

SCALE: 1" = 60'



MONITORING WELLS & BORING LOCATIONS

| SAMPLE | NORTH | EAST | ELEVATION | DESCRIPTION |
|--------|----------|---------|-----------|-------------|
| MW-1 | 10005.75 | 9770.81 | 778.51 | ASPH. |
| MW-2 | 8963.26 | 9795.25 | 778.25 | RIM |
| MW-3 | 10036.20 | 9859.98 | 778.36 | ASPH. |
| MW-4 | 10085.20 | 9967.62 | 778.38 | RIM |
| MW-5 | 10243.23 | 9880.34 | 778.08 | RIM |
| MW-6 | 10249.86 | 9793.88 | 778.83 | RIM |
| MW-7 | 10249.65 | 9650.24 | 778.81 | RIM |
| MW-8 | 10038.09 | 9649.08 | 778.81 | RIM |
| MW-9 | 9945.36 | 9430.13 | 781.33 | RIM |
| MW-10 | 9909.53 | 9724.56 | 780.10 | RIM |
| MW-11 | 10043.23 | 9767.54 | 780.02 | RIM |
| MW-12 | 10082.02 | 9799.74 | 778.81 | RIM |
| MW-13 | 10082.09 | 9864.35 | 778.85 | RIM |
| MW-14 | 10130.64 | 9734.67 | 778.81 | RIM |
| MW-15 | 10190.80 | 9795.30 | 778.81 | RIM |
| B-16 | 9736.69 | 9334.99 | 778.23 | PVC |
| B-17 | 9736.99 | 9475.17 | 780.40 | PVC |
| B-18 | 9925.09 | 9623.75 | 777.55 | PVC |
| B-19 | 9968.66 | 9965.74 | 778.30 | PVC |
| B-20 | 10249.88 | 9964.03 | 778.36 | PVC |
| B-21 | 10139.46 | 9644.31 | 774.51 | PVC |
| B-22 | 8853.67 | 9725.31 | 776.69 | PVC |
| B-23 | 9983.81 | 9724.83 | 778.50 | PVC |
| B-24 | 10249.26 | 9732.76 | 778.88 | PVC |
| B-25 | 10079.30 | 9714.32 | 778.79 | PVC |
| B-26 | 10154.33 | 9821.64 | 778.84 | PVC |
| B-27 | 10187.79 | 9726.14 | 778.80 | PVC |
| B-28 | 10196.32 | 9917.18 | 778.83 | PVC |

LEGEND

WATER MONITORING WELL (AUGUST 2002)
 VALUE = WATER TABLE ELEVATION,
 IN FEET, 8/28/02

TEST BORING (AUGUST 2002)

SHALLOW GROUNDWATER ELEVATION
 CONTOUR, FEET RELATIVE TO MEAN
 SEA LEVEL, 08/28/02

GROUNDWATER FLOW DIRECTION

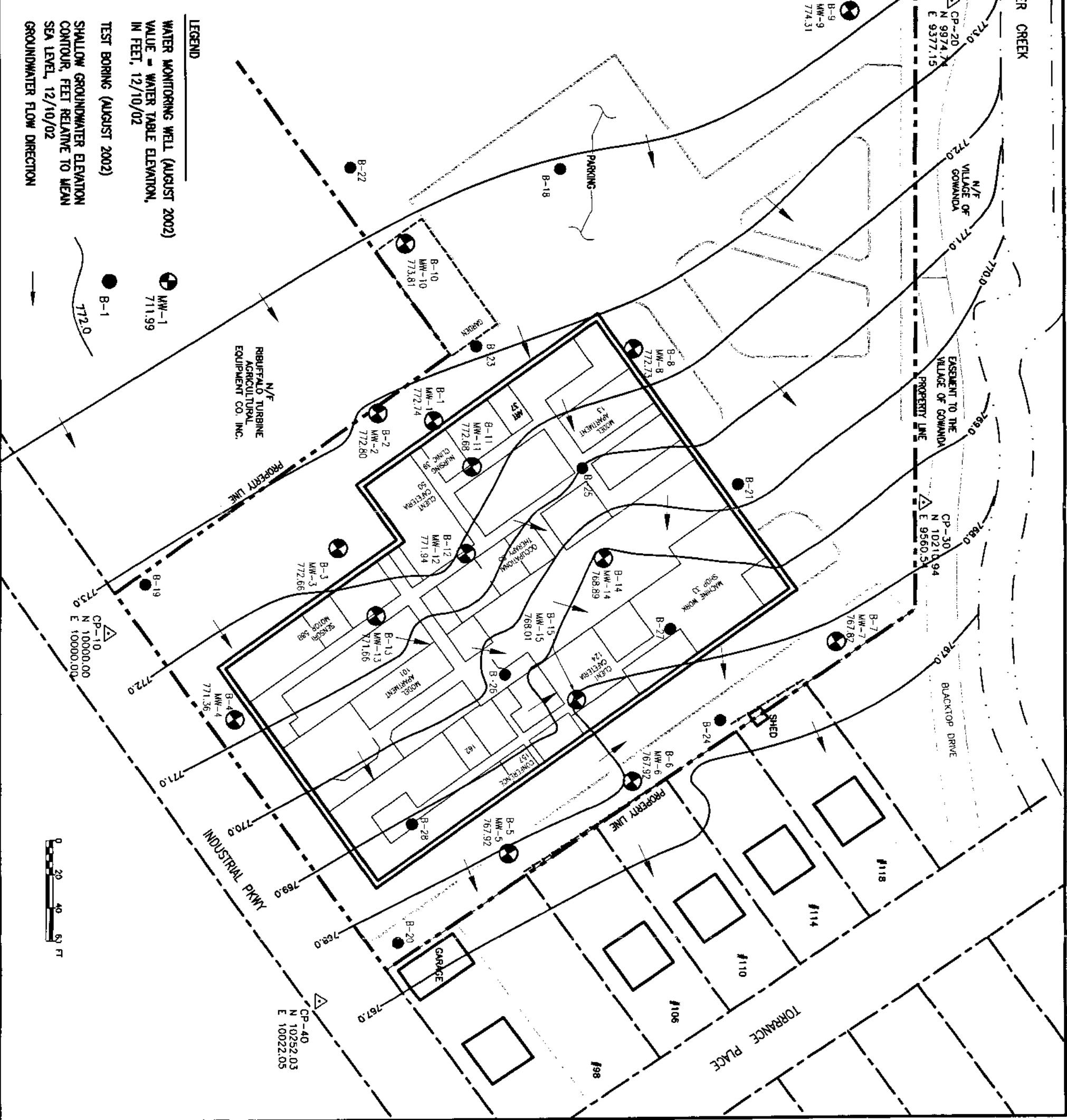


* ELEVATIONS ARE RELATIVE TO MEAN SEA LEVEL

MONITORING WELLS & BORING LOCATIONS

| SAMPLE | NORTH | EAST | ELEVATION | DESCRIPTION |
|--------|----------|---------|-----------|-------------|
| MW-1 | 10005.75 | 9770.81 | 778.51 | ASPH. |
| MW-2 | 9983.26 | 9795.25 | 778.52 | RIM |
| MW-3 | 10036.20 | 9859.98 | 778.23 | PVC |
| MW-4 | 10085.20 | 9967.52 | 778.35 | ASPH. |
| MW-5 | 10243.23 | 9990.34 | 778.38 | RIM |
| MW-6 | 10249.86 | 9795.88 | 778.08 | PVC |
| MW-7 | 10249.85 | 9650.24 | 778.35 | RIM |
| MW-8 | 10035.09 | 9649.08 | 781.17 | GRD. |
| MW-9 | 9945.35 | 9430.13 | 778.45 | GRD. |
| MW-10 | 9909.53 | 9724.55 | 781.33 | PVC |
| MW-11 | 10041.23 | 9767.54 | 780.56 | GRD. |
| MW-12 | 10082.02 | 9799.74 | 778.81 | PVC |
| MW-13 | 10082.09 | 9864.35 | 778.58 | FLOOR |
| MW-14 | 10130.64 | 9754.67 | 778.85 | RIM |
| MW-15 | 10190.80 | 9795.30 | 778.85 | PVC |
| B-16 | 9736.69 | 9324.99 | 778.76 | RIM |
| B-17 | 9795.99 | 9475.17 | 778.82 | GRD. |
| B-18 | 9825.09 | 9623.75 | 778.40 | ASPH. |
| B-19 | 9888.66 | 9865.74 | 777.55 | ASPH. |
| B-20 | 10249.88 | 9864.03 | 778.35 | ASPH. |
| B-21 | 10138.48 | 9664.31 | 774.35 | GRD. |
| B-22 | 9853.67 | 9723.31 | 776.89 | GRD. |
| B-23 | 9883.61 | 9724.85 | 778.50 | ASPH. |
| B-24 | 10249.26 | 9752.76 | 778.85 | GRD. |
| B-25 | 10079.30 | 9714.32 | 778.79 | FLOOR |
| B-26 | 10154.35 | 9821.64 | 778.84 | FLOOR |
| B-27 | 10187.79 | 9726.14 | 778.80 | FLOOR |
| B-28 | 10196.32 | 9917.18 | 778.83 | FLOOR |

* ELEVATIONS ARE RELATIVE TO MEAN SEA LEVEL



LEGEND

WATER MONITORING WELL (AUGUST 2002)
 VALUE = WATER TABLE ELEVATION,
 IN FEET, 12/10/02

TEST BORING (AUGUST 2002)

SHALLOW GROUNDWATER ELEVATION
 CONTOUR, FEET RELATIVE TO MEAN
 SEA LEVEL, 12/10/02

GROUNDWATER FLOW DIRECTION

DASNY
 GOWANDA DAY
 HABITATION CENTER
 4 INDUSTRIAL PLACE
 GOWANDA, NY

B E R G M A N N
 associates
 Engineers / Architects / Surveyors

DRAWING TITLE:
 SHALLOW WATER
 TABLE SURFACE &
 GROUNDWATER
 FLOW, DEC. 2002

BY:
 T. BOLT

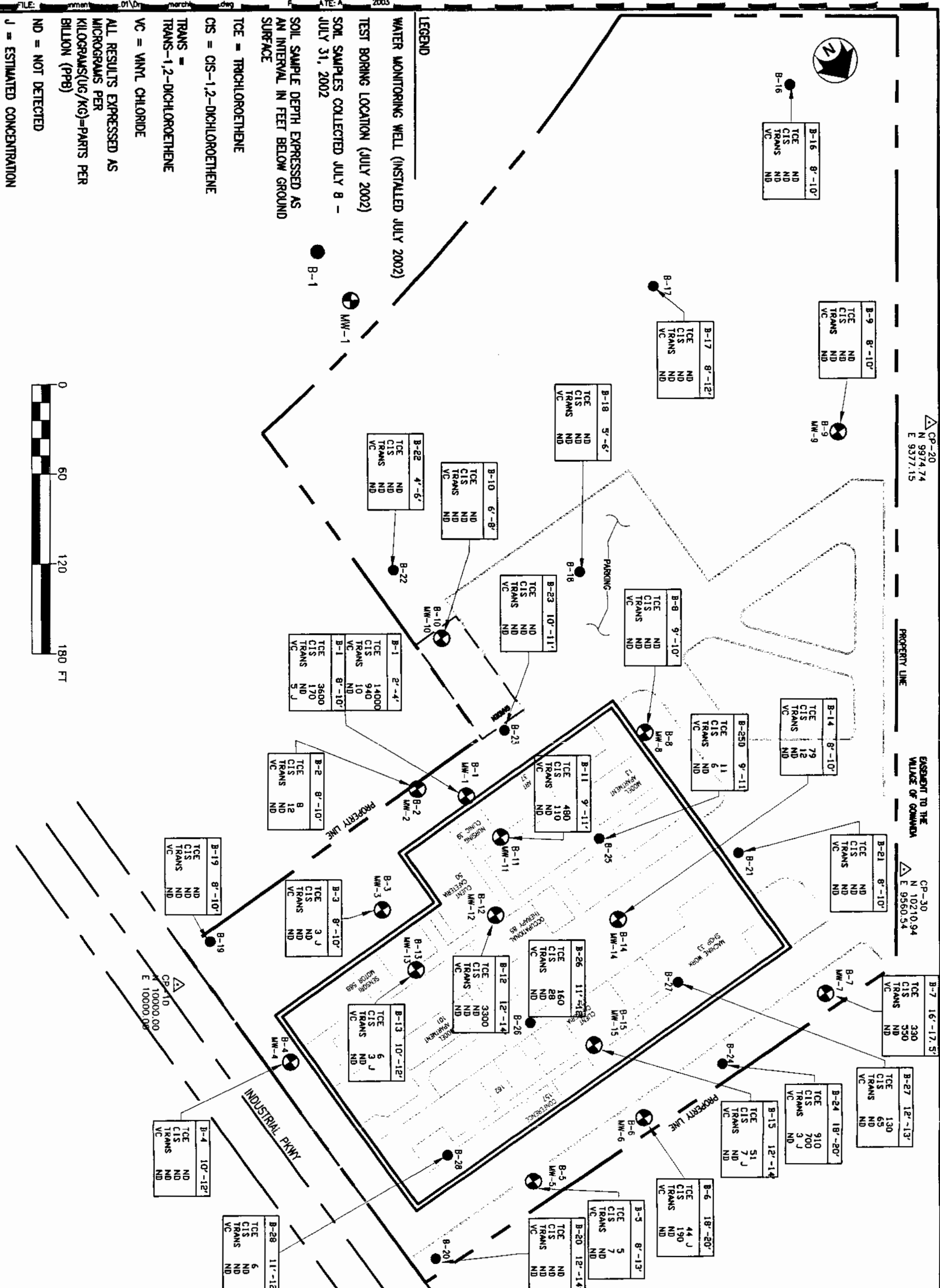
CHK'D BY:
 E. JONES, J. MARSCHNER

DRAWING DATE:
 MARCH 17, 2003

JOB #:
 5596.03

SHEET #:
 FIG-9

SCALE: 1" = 60'



LEGEND

WATER MONITORING WELL (INSTALLED JULY 2002)

TEST BORING LOCATION (JULY 2002)

SOIL SAMPLES COLLECTED JULY 8 - JULY 31, 2002

SOIL SAMPLE DEPTH EXPRESSED AS AN INTERVAL IN FEET BELOW GROUND SURFACE

TCE = TRICHLOROETHENE

CIS = CIS-1,2-DICHLOROETHENE

TRANS = TRANS-1,2-DICHLOROETHENE

VC = VINYL CHLORIDE

ALL RESULTS EXPRESSED AS MICROGRAMS PER KILOGRAMS(UG/KG)=PARTS PER BILLION (PPB)

ND = NOT DETECTED

J = ESTIMATED CONCENTRATION



DASNy

GOVANDA DAY
HABILITATION CENTER
4 INDUSTRIAL PLACE
GOVANDA, NY

B E R G M A N N

Engineers / Architects / Surveyors

DRAWING TITLE:
2002
SOIL ANALYTICAL
RESULTS SUMMARY
DETECTED VOCs

BY:
T. BOLT

CHK'D BY:
E. JONES, J. MARSCHNER

DRAWING DATE:
MARCH 17, 2003

JOB #:
5596.03

SHEET #:
FIGURE 10

SCALE: 1" = 60'



B-16

CP-20
N 9974.74
E 9377.15

PROPERTY LINE

ESSENTIAL TO THE
WELFARE OF GOWANDA

CP-30
N 10210.94
E 9560.54

| | |
|-------|-------|
| MW-9 | |
| TCE | 4.2 J |
| CIS | ND |
| TRANS | ND |
| VC | ND |

B-9
MW-9

B-17

| | |
|-------|-------|
| MW-8 | |
| TCE | 1.4 J |
| CIS | ND |
| TRANS | ND |
| VC | ND |

B-18

B-23

| | |
|-------|-------|
| MW-10 | |
| TCE | 2.6 J |
| CIS | ND |
| TRANS | ND |
| VC | ND |

B-22

MW-10

| | |
|-------|-----|
| MW-1 | |
| TCE | 380 |
| CIS | 380 |
| TRANS | 4 J |
| VC | 4 J |

| | |
|-------|-------|
| MW-2 | |
| TCE | 4.7 J |
| CIS | 18 |
| TRANS | ND |
| VC | ND |

| | |
|-------|-------|
| MW-3 | |
| TCE | 2.3 J |
| CIS | 9.6 |
| TRANS | ND |
| VC | 3.1 J |

| | |
|-------|-------|
| MW-13 | |
| TCE | 250 |
| CIS | 69 |
| TRANS | 1.3 J |
| VC | ND |

| | |
|-------|-------|
| MW-4 | |
| TCE | 1.8 J |
| CIS | 2.0 J |
| TRANS | ND |
| VC | ND |

| | |
|-------|------|
| MW-11 | |
| TCE | 2300 |
| CIS | 2300 |
| TRANS | 16 |
| VC | 31 |

| | |
|-------|------|
| MW-12 | |
| TCE | 9600 |
| CIS | 3000 |
| TRANS | 28 |
| VC | 15 |

| | |
|-------|-------|
| MW-6 | |
| TCE | 2.4 J |
| CIS | 400 |
| TRANS | 3.4 J |
| VC | ND |

| | |
|-------|-------|
| MW-5 | |
| TCE | 12 |
| CIS | 1.7 J |
| TRANS | ND |
| VC | ND |

| | |
|-------|-----|
| MW-7 | |
| TCE | 26 |
| CIS | 420 |
| TRANS | ND |
| VC | 4 J |

| | |
|-------|-----|
| MW-15 | |
| TCE | 320 |
| CIS | 380 |
| TRANS | ND |
| VC | ND |

| | |
|-------|-------|
| MW-6 | |
| TCE | 2.4 J |
| CIS | 400 |
| TRANS | 3.4 J |
| VC | ND |

| | |
|-------|-------|
| MW-5 | |
| TCE | 1.7 J |
| CIS | ND |
| TRANS | ND |
| VC | ND |

LEGEND

WATER MONITORING WELL (INSTALLED JULY 2002)

TEST BORING LOCATION (JULY 2002)

GROUNDWATER SAMPLES COLLECTED
AUGUST 28 - SEPTEMBER 4, 2002

TCE = TRICHLOROETHENE

CIS = CIS-1,2-DICHLOROETHENE

TRANS =
TRANS-1,2-DICHLOROETHENE

VC = VINYL CHLORIDE

ALL RESULTS EXPRESSED AS
MICROGRAMS PER LITER(UG/L)=PARTS
PER BILLION (PPB)

ND = NOT DETECTED

J = ESTIMATED CONCENTRATION



DASNY

GOWANDA DAY
HABILITATION CENTER
4 INDUSTRIAL PLACE
GOWANDA, NY



B E R G M A N N
Associates
Engineers / Architects / Surveyors

DRAWING TITLE:
**2002
GROUNDWATER
ANALYTICAL
RESULTS SUMMARY
DETECTED VOCS**

BY:
T. BOLT

CHKD BY:
E. JONES, J. MARSCHNER

DRAWING DATE:
MARCH 17, 2003

JOB #:
5596.03

SHEET #:
FIGURE 11

SCALE: 1" = 60'

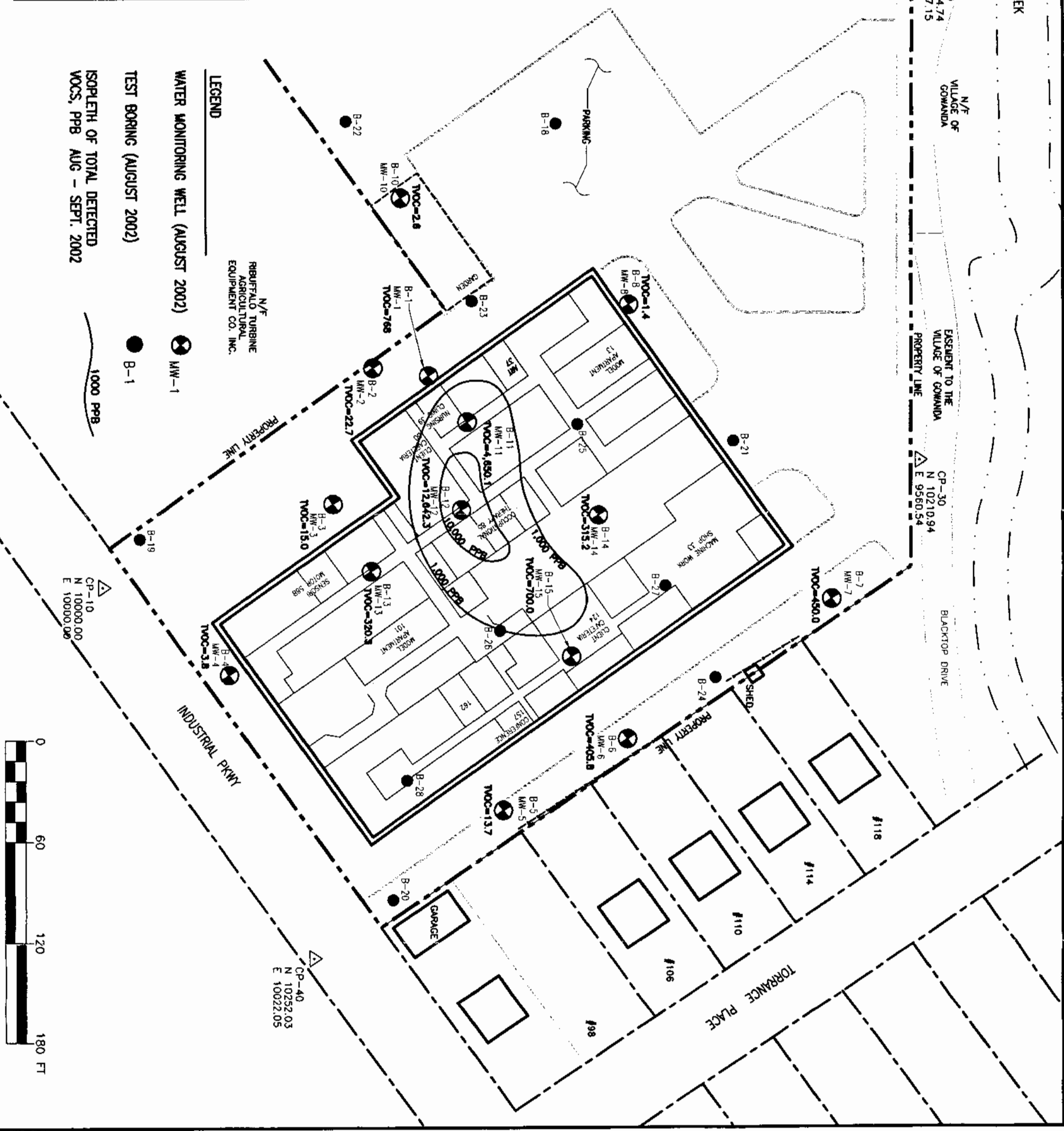
DRAWING TITLE:
 APPROXIMATE
 EXTENT OF GREATEST
 IMPACT TO
 GROUNDWATER MAP

BY:
 T. BOLT
CHK'D BY:
 E. JONES, J. MARSCHNER
DRAWING DATE:
 MARCH 17, 2003

JOB #:
 5396.03
SHEET #:
 FIG-12
SCALE: 1" = 60'

MONITORING WELLS & BORING LOCATIONS

| SAMPLE | NORTH | EAST | ELEVATION | DESCRIPTION |
|--------|----------|---------|-----------|-------------|
| MW-1 | 10005.75 | 9770.81 | 778.51 | ASPH. |
| MW-2 | 9983.26 | 9795.25 | 778.52 | RIM |
| MW-3 | 10036.30 | 9859.98 | 778.38 | ASPH. |
| MW-4 | 10083.20 | 9967.62 | 778.09 | RIM |
| MW-5 | 10243.23 | 9880.34 | 778.59 | PVC |
| MW-6 | 10249.86 | 9795.88 | 778.61 | RIM |
| MW-7 | 10249.65 | 9650.24 | 778.38 | GRD. |
| MW-8 | 10038.09 | 9649.08 | 778.17 | PVC |
| MW-9 | 9945.36 | 9430.13 | 780.94 | GRD. |
| MW-10 | 9909.53 | 9724.56 | 781.17 | GRD. |
| MW-11 | 10041.23 | 9767.54 | 781.10 | GRD. |
| MW-12 | 10082.02 | 9798.74 | 778.82 | RIM |
| MW-13 | 10082.09 | 9864.35 | 778.81 | RIM |
| MW-14 | 10130.64 | 9734.67 | 778.58 | PVC |
| MW-15 | 10190.80 | 9795.30 | 778.82 | RIM |
| B-16 | 9736.69 | 9324.99 | 778.76 | PVC |
| B-17 | 9795.89 | 9475.17 | 782.23 | GRD. |
| B-18 | 9925.09 | 9623.75 | 780.40 | GRD. |
| B-19 | 9988.66 | 9863.74 | 777.55 | ASPH. |
| B-20 | 10249.88 | 9964.03 | 778.50 | ASPH. |
| B-21 | 10139.46 | 9644.31 | 774.51 | ASPH. |
| B-22 | 9853.07 | 9725.31 | 776.69 | GRD. |
| B-23 | 9983.81 | 9725.31 | 776.69 | GRD. |
| B-24 | 10249.26 | 9724.92 | 778.50 | ASPH. |
| B-25 | 10079.30 | 9714.32 | 778.88 | GRD. |
| B-26 | 10154.35 | 9821.64 | 778.79 | FLOOR |
| B-27 | 10187.79 | 9726.14 | 778.80 | FLOOR |
| B-28 | 10196.33 | 9917.18 | 778.83 | FLOOR |



LEGEND

WATER MONITORING WELL (AUGUST 2002)

TEST BORING (AUGUST 2002)

ISOPLETH OF TOTAL DETECTED
 VOCs, PPB AUG - SEPT. 2002

1000 PPB

N/F RIBUFFALO TURBINE
 AGRICULTURAL
 EQUIPMENT CO. INC.

CP-20
 N 9974.74
 E 9377.15

CP-30
 N 10210.94
 E 9560.54

CP-40
 N 10252.03
 E 10022.05

CP-10
 N 10000.00
 E 10000.00

APPENDIX 1
Boring Logs and Well Construction Details

DRILLING LOG



B E R G M A N N
associates

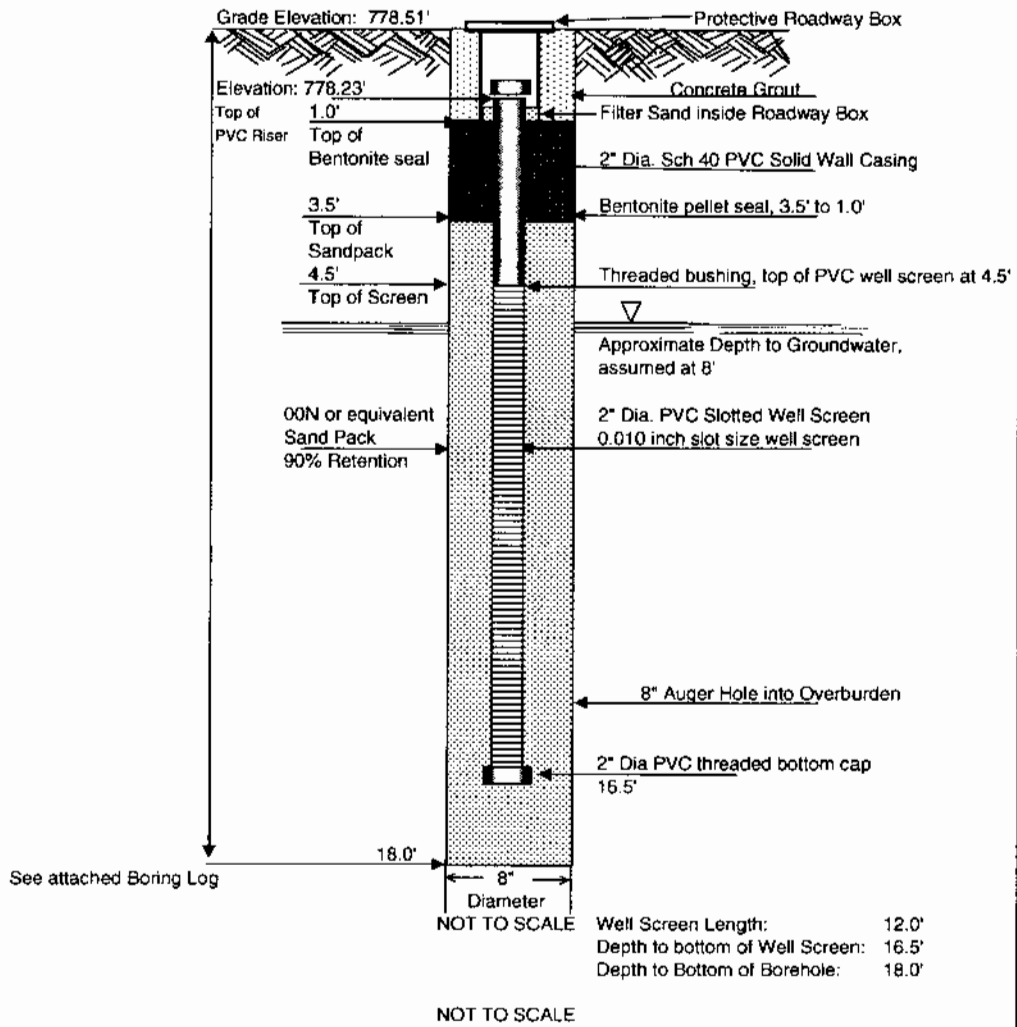
BORING/WELL NUMBER: Test Boring B-1/MW-1

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/31/02 Finish Date: 07/31/02 Top of Well: N/A Boring No: B-1/MW-1
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In asphalt adjacent to south side of the building.
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 8.0 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 8 feet
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 16.5 ft. to 4.5 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 18.0 ft to 3.5 ft
 Seal: 3.5 to 1.0 feet Weather Conditions: Overcast, humid, 75 degrees in morning
Flush to grade roadway box installed over the monitoring well. Warmer & scattered rain in the afternoon

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|----------|-----------|-----------|--------|-----|---------|---------------------------|--|---|----------|
| | 0" / 6" | 6" / 12" | 12" / 18" | 18" / 24" | N | NO. | Depth | | | Type | Recovery |
| 0 | 23 | 9 | | | 16 | 1 | 0-2' | soil | 42% | Asphalt Surface 0.5' | 4.1 ppm |
| | | | 7 | 5 | | | | | | GRAVEL and F-C Sand Fill to 2' 2.0' | |
| 5 | 6 | 2 | | | 5 | 2 | 2'-4' | soil | 75% | Damp Br. Mottled M. Stiff SILT, Some F. Sand. Partings evident | 176 ppm |
| | | | 3 | 3 | | | | | | Same SILT, some F. Sand. M. Stiff. | |
| 10 | 5 | 4 | | | 7 | 3 | 4'-6' | soil | 83% | Roots encountered. moist at 6' | 131 ppm |
| | | | 3 | 4 | | | | | | same Silt & F. Sand 7', then Gravel 7.0' | |
| | 1 | WH | | | 1 | 4 | 6'-8' | soil | 13% | Brown F-M GRAVEL Some F-C Sand | |
| 15 | 2 | 4 | | | 8 | 5 | 8'-10' | soil | 75% | Damp Br. Loose F-M GRAVEL, some F-C Sand, tr. Silt WT ~8' | 31.0 ppm |
| | | | 4 | 14 | | | | | | Same, M. Dense. Trace Silt, Wet at 8' | |
| 20 | 5 | 7 | | | 15 | 6 | 10'-12' | soil | 67% | Same, saturated at 10'. Petroleum odor | 6.5 ppm |
| | | | 8 | 15 | | | | | | Same Gravel, becomes Dense | |
| | 22 | 18 | | | 30 | 7 | 12'-14' | soil | 67% | Grayish brown at 13' | |
| 25 | 29 | 22 | | | 36 | 8 | 14'-16' | soil | 25% | Same Gray-Brown Gravel, some Sand | 2.1 ppm |
| | | | 14 | 17 | | | | | | Same gravel to 16'2", then Clay 16'2" | |
| | 18 | 25 | | | 57 | 9 | 16'-18' | soil | 100% | Damp Gray Hard CLAY and Silt | |
| 30 | | | 32 | 40 | | | | | | Trace pebbles. TILL 18' | 3.5 ppm |
| | | | | | | | | | | Boring terminated at 18.0 feet | |
| | | | | | | | | | | 2" diameter monitoring well installed in test boring | |
| | | | | | | | | | | All cuttings placed in drums. | |
| | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |

2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-1/MW-1



Elevation for Top of Well Riser (TOR) and Grade Elevation are in feet, relative to Mean Sea Level



**GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK**

Date installed:
31-JUL-02

**MONITORING WELL CONSTRUCTION DETAIL
MW-1**

DRILLING LOG



B E R G M A N N
associates

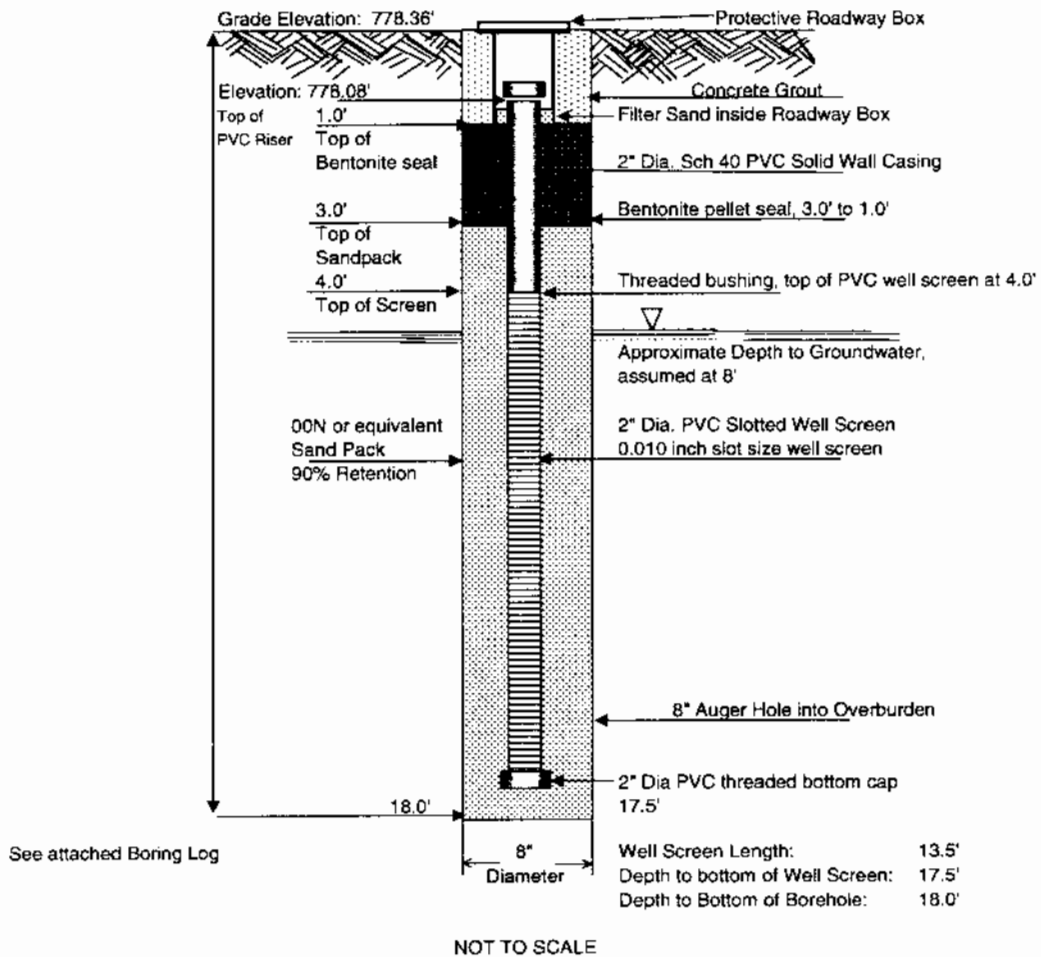
BORING/WELL NUMBER: Test Boring B-2/MW-2

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/25/02 Finish Date: 07/25/02 Top of Well: N/A Boring No: B-2/MW-2
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In asphalt lot south side building, at property line.
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 8.0 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 8 feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 17.5 ft. to 4.0 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 18.0 ft to 3.0 ft
 Seal: 3.0 to 1.0 feet Weather Conditions: Sunny, 60 degree F in the morning
Flush to grade roadway box installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|---|----------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery |
| 0 | 28 | 10 | | | 20 | 1 | 0-2' | soil | 42% | Asphalt surface 6' | 0.1 ppm |
| | | | 10 | 5 | | | | | | GRAVEL and F- C Sand. Fill 2'6" | |
| 5 | 3 | 4 | | | 8 | 2 | 2'-4' | soil | 92% | Damp Mottled BR & GR M. Stiff SILT, Some F. Sand | 0.5 ppm |
| | | | 4 | 4 | | | | | | Same, M. Stiff | |
| 10 | 3 | 3 | | | 7 | 3 | 4'-6' | soil | 58% | Same, becomes v. moist at 6' | 0.2 ppm |
| | | | 4 | 3 | | | | | | Same mottled SILT. some F. Sand | |
| | WH | WH | | | 1 | 4 | 6'-8' | soil | 96% | becomes Wet at 8'. V. Soft 8.0' | 0.3 ppm |
| | | | WH | WH | | | | | | Wet Brown Loose F-M GRAVEL, Some F-C Sand, Tr. Silt | |
| 15 | | | 6 | 9 | 6 | 5 | 8'-10' | soil | 21% | | 0.3 ppm |
| | 12 | 8 | | | 16 | 6 | 10'-12' | soil | 50% | Same, grayish-brown, M. Dense | 0.3 ppm |
| | | | 8 | 15 | | | | | | Gravel is angular | |
| 20 | 18 | 14 | | | 32 | 7 | 12'-14' | soil | 79% | Same, saturated, Dense | 0.2 ppm |
| | | | 18 | 14 | | | | | | Identical, Loose | |
| | 1 | 2 | | | 10 | 8 | 14'-16' | soil | 50% | | |
| 25 | | | 8 | 11 | | | | | | Same to 17'. Dense 17' | ND |
| | 23 | 22 | | | 59 | 9 | 16'-18' | soil | 100% | Damp Gray Hard Silty-CLAY, Trace Gravel. Laminated. TILL 18' | ND |
| | | | 37 | 50 | | | | | | Boring terminated at 18.0 feet | |
| 30 | | | | | | | | | | 2" diameter monitoring well installed in test boring. | |
| | | | | | | | | | | All cuttings placed in drums. | |
| | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |

2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-2/MW-2



Elevation for Top of Well Riser (TOR) and Grade Elevation are in feet, relative to Mean Sea Level



GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK
MONITORING WELL CONSTRUCTION DETAIL
MW-2

Date Installed:
 25-Jul-02

DRILLING LOG



BERGMANN
associates

BORING/WELL NUMBER: Test Boring B-3/MW-3

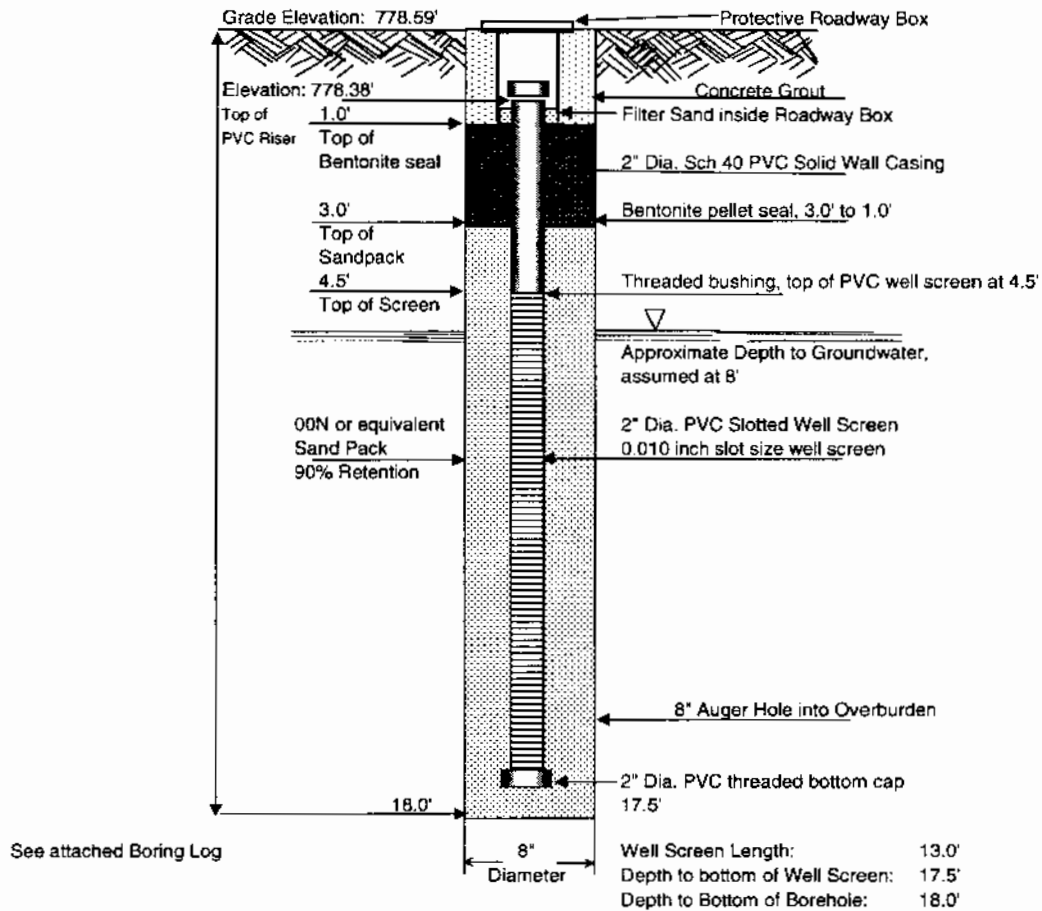
PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/12/02 Finish Date: 07/12/02 Top of Well: N/A Boring No: B-3/MW-3
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In asphalt parking lot, southeast side of the building
 Inspector: Jim Marschner, Bergmann Associates Water Level (During Drilling): Approximately 8.0 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 8 feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 17.5 ft. to 4.5 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 18.0 ft to 3.0 ft
 Seal: 3.0 to 1.0 feet Weather Conditions: Sunny, 60 degree F in the morning

Flush to grade roadway box installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID |
|-------|------------------|--------|---------|---------|--------|-----|---------|------|----------|---|--|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | Type | Recovery | | |
| 0 | 27 | 7 | | | 16 | 1 | 0-2' | soil | 29% | Asphalt surface. Fill to 2'2" | 6.0' |
| | | | 9 | 12 | | | | | | F-C Sand, F. Gravel, Concrete | 2'2" |
| 5 | 11 | 11 | | | 43 | 2 | 2'-4' | soil | 46% | Damp Tan Dense F-M SAND with Silt, Trace Gravel | 2.2 ppm |
| | | | 32 | 21 | | | | | | Same. M. Dense | |
| 10 | 28 | 14 | | | 22 | 3 | 4'-6' | soil | 8% | | 8.0 ppm |
| | | | 8 | 10 | | | | | | Moist Gr.-Br. Stiff SILT. inter-layered with Fine Sand. Wet at 8' | 8.0' |
| 15 | 3 | 5 | | | 14 | 4 | 6'-8' | soil | 88% | | 21.0 ppm |
| | | | 9 | 8 | | | | | | Wet Br to Gr. M. Dense F-M GRAVEL, some F-M Sand, Some silt | |
| 20 | 6 | 9 | | | 16 | 5 | 8'-10' | soil | 33% | | 27.0 ppm |
| | | | 7 | 8 | | | | | | Same wet M. Dense Gravel, but Gray | |
| 25 | 7 | 8 | | | 15 | 6 | 10'-12' | soil | 46% | | 25.0 ppm |
| | | | 7 | 4 | | | | | | Same, becomes Dense | |
| 30 | 12 | 14 | | | 35 | 7 | 12'-14' | soil | 50% | | 24.0 ppm |
| | | | 21 | 23 | | | | | | Dame Dense Gravel, some F. Sand | |
| 35 | 11 | 19 | | | 33 | 8 | 14'-16' | soil | 29% | | 22.0 ppm |
| | | | 14 | 14 | | | | | | Same Gravel & Sand to 17' | 17' |
| 40 | 14 | 23 | | | 58 | 9 | 16'-18' | soil | 58% | | 7.7 ppm |
| | | | 35 | 47 | | | | | | Damp Gray Hard Silty-CLAY, Trace Gravel. Laminated. TILL | 18' |
| 45 | | | | | | | | | | Boring terminated at 18.0 feet | |
| | | | | | | | | | | 2" diameter monitoring well installed in test boring. | |
| 50 | | | | | | | | | | All cuttings placed in drums. | |
| | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-3/MW-3



Elevation for Top of Well Riser (TOR) and Grade Elevation are in feet, relative to Mean Sea Level



GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK
MONITORING WELL CONSTRUCTION DETAIL
MW-3

Date installed:
 12-Jul-02

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-4/MW-4

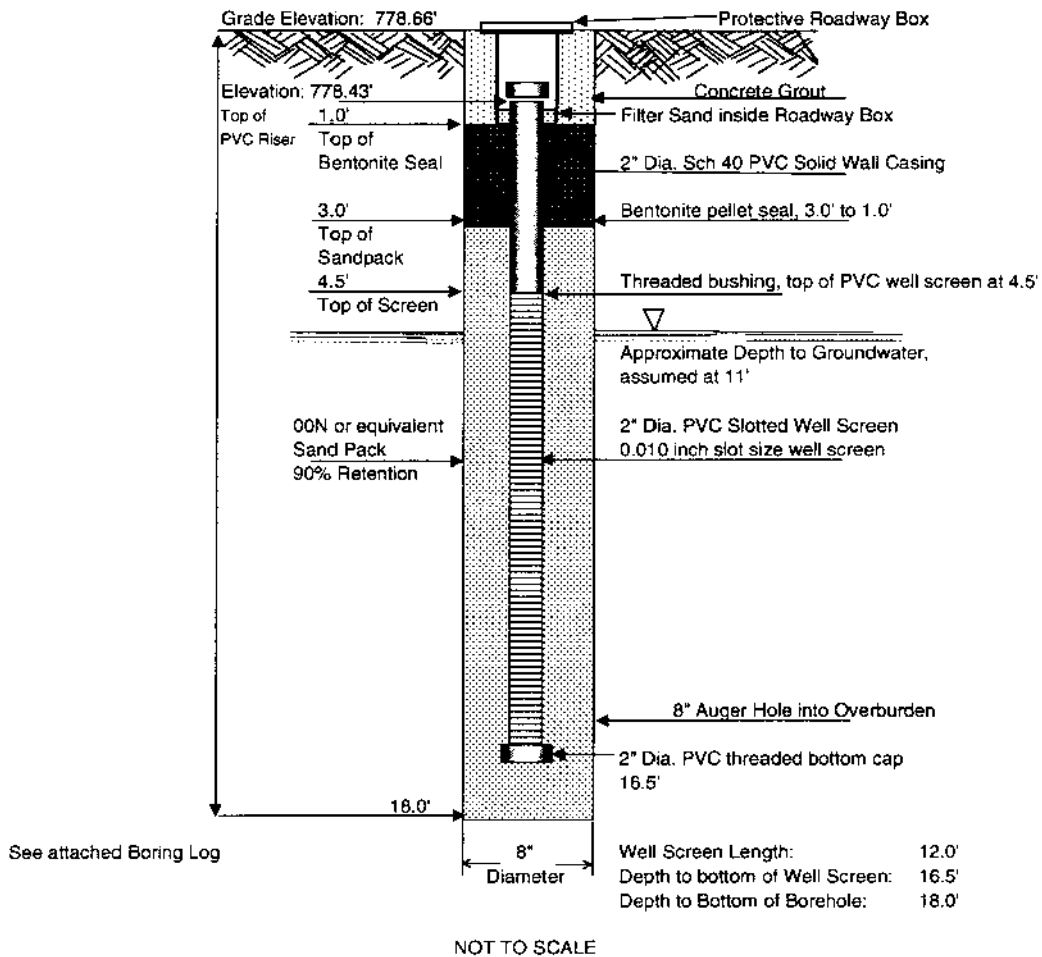
PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/11/02 Finish Date: 07/11/02 Top of Well: N/A Boring No: B-4/MW-4
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In asphalt parking lot, east side of the building
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 11" feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 6 feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 16.5 ft. to 4.6 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 18.0 ft to 3.0 ft
 Seal: 3.0 to 1.0 feet Weather Conditions: Sunny, 75 degree F in the morning

Flush to grade roadway box installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID |
|-------|------------------|--------|---------|---------|--------|-----|---------|------|----------|---|--|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | Type | Recovery | | |
| 0 | 22 | 8 | | | 12 | 1 | 0-2' | soil | 21% | Asphalt Surface | 0.5' |
| | | | 4 | 4 | | | | | | Damp Grown F-C SAND and Gravel | ND |
| | 4 | 2 | | | 6 | 2 | 2'-4' | soil | 21% | Fill to 3.5' | |
| | | | 4 | 5 | | | | | | Fill to 3.5' | 3.5' ND |
| 5 | 2 | 3 | | | 6 | 3 | 4'-6' | soil | 42% | Damp Gr-Br. Loose Fine SAND and Silt | ND |
| | | | 3 | 4 | | | | | | Damp Br. M. Stiff SILT, some F. Sand 7' | ND |
| | 3 | 5 | | | 13 | 4 | 6'-8' | soil | 38% | Damp Brown M. Dense F-M GRAVEL, some F-C Sand, Trace Silt | ND |
| | | | 8 | 8 | | | | | | Same, M. Dense, V. Moist to wet | ND |
| 10 | 6 | 10 | | | 18 | 5 | 8'-10' | soil | 25% | Same, M. Dense, V. Moist to wet | ND |
| | | | 8 | 5 | | | | | | Dame, M. Dense, Wet at 11'10" | ND |
| | 12 | 10 | | | 24 | 6 | 10'-12' | soil | 50% | Same, Gray and Brown, M. Dense | ND |
| | | | 14 | 10 | | | | | | Same, saturated, M. Dense | ND |
| | 9 | 9 | | | 25 | 7 | 12'-14' | soil | 100% | Same Gravel to 15'10" | 15'10" ND |
| | | | 16 | 14 | | | | | | Damp Gray Hard Silty-CLAY, Trace Gravel. Laminated. TILL | 18' ND |
| 15 | 2 | 14 | | | 22 | 8 | 14'-16' | soil | 92% | Boring terminated at 18.0 feet | |
| | | | 8 | 14 | | | | | | 2" diameter monitoring well installed in test boring. | |
| | 15 | 21 | | | 47 | 9 | 16'-18' | soil | 83% | All cuttings placed in drums. | |
| | | | 26 | 43 | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |
| 20 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| | | | | | | | | | | | |
| 30 | | | | | | | | | | | |

N = The number of blows to advance a 2" Split Spoon 12" with a 140 lb. Hammer dropped 30" each blow.

MONITORING WELL B-4/MW-4



Elevation for Top of Well Riser (TOR) and Grade Elevation are in feet, relative to Mean Sea Level



GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK
MONITORING WELL CONSTRUCTION DETAIL
MW-4

Date Installed:
 11-Jul-02

DRILLING LOG



B E R G M A N N
associates

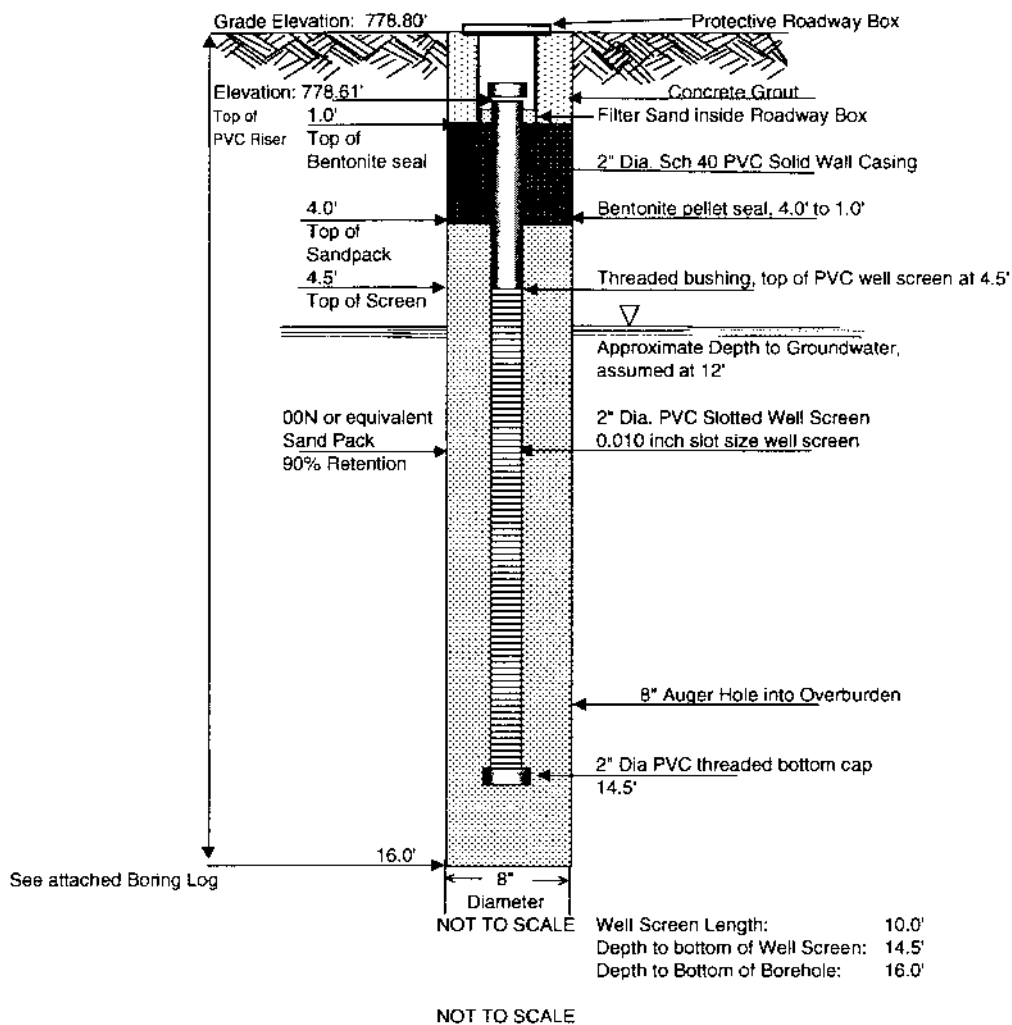
BORING/WELL NUMBER: Test Boring B-5/MW-5

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/30/02 Finish Date: 07/31/02 Top of Well: N/A Boring No: B-5/MW-5
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In grass strip north of building, near property line
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 12.0' feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Not recorded
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 14.5 ft. to 4.5 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 16.0 ft to 4.0 ft
 Seal: 4.0 to 1.0 feet Weather Conditions: Overcast, humid, 75 degrees in morning
 Flush to grade roadway box installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID |
|-------|------------------|----------|-----------|-----------|--------|-----|---------|------|----------|--|--|
| | 0" / 6" | 6" / 12" | 12" / 18" | 18" / 24" | N | NO. | Depth | Type | Recovery | | |
| 0 | 10 | 4 | | | 11 | 1 | 0'-2' | soil | 17% | Asphalt Surface | 0.5' |
| | | | 7 | 10 | | | | | | F. GRAVEL and F-C Sand Fill, 2' | 2.0' |
| | 4 | 3 | | | 6 | 2 | 2'-4' | soil | 71% | Damp Br. Mottled M. Stiff SILT, Some F. Sand | 17.4 ppm |
| 5 | | | 3 | 3 | | | | | | Same damp M. Stiff SILT, some F. Sand | 18.0 ppm |
| | 2 | 4 | | | 7 | 3 | 4'-6' | soil | 88% | | |
| 10 | | | 3 | 4 | | | | | | Same to 7'10" | 36.0 ppm |
| | 2 | 3 | | | 6 | 4 | 6'-8' | soil | 100% | Start Brown Gravel | 7'10' |
| | | | 3 | 11 | | | | | | Damp Br. V. Dense F-M GRAVEL, some F-C Sand, tr. Silt | 56.0 ppm |
| 15 | 15 | 35 | | | 69 | 5 | 8'-10' | soil | 54% | | 37.0 ppm |
| | | | 34 | 18 | | | | | | Same F-M GRAVEL, Some F-C Sand Becomes M. Dense, Wet at 12.0' WT-12' | 3.0 ppm |
| 20 | 10 | 16 | | | 27 | 6 | 10'-12' | soil | 58% | | 2.0 ppm |
| | | | 11 | 16 | | | | | | Same, wet to 14.0', then Clay | 14.0' |
| 25 | 11 | 6 | | | 15 | 7 | 12'-14' | soil | 13% | | 1.6 ppm |
| | | | 9 | 15 | | | | | | Damp Gray hard CLAY and Silt | |
| 30 | 39 | 21 | | | 42 | 8 | 14'-16' | soil | 58% | Trace Pebbles. Glacial Till | 16.0' |
| | | | 21 | 36 | | | | | | Boring terminated at 16.0 feet 2" diameter monitoring well installed in test boring All cuttings placed in drums. Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |

2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-5/MW-5



Elevation for Top of Well Riser (TOR) and Grade Elevation are in feet, relative to Mean Sea Level



GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK
MONITORING WELL CONSTRUCTION DETAIL
MW-5

Date Installed:
31-Jul-02

DRILLING LOG



B E R G M A N N
associates

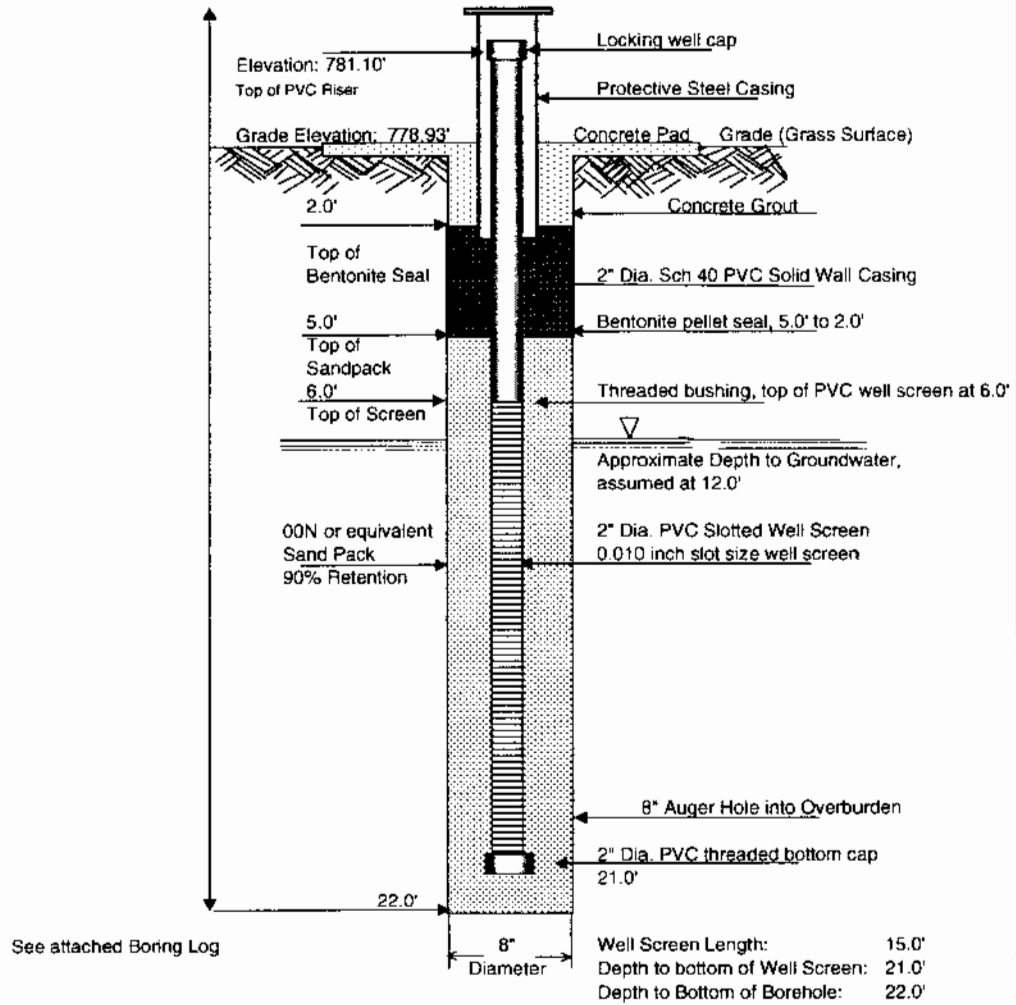
BORING/WELL NUMBER: Test Boring B-6/MW-6

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/30/02 Finish Date: 07/30/02 Top of Well: N/A Boring No: B-6/MW-6
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In grass strip north of building , near property line
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 12 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 15 feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 21.0 ft. to 6.0 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 22.0 ft to 5.0 ft
 Seal: 5.0 to 2.0 feet Weather Conditions: Overcast, humid, 75 degrees in morning
Protective Steel Casing installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | | Field Screening for VOCs, ppm, using PID | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|------|---|----------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | | Type |
| 0 | 3 | 2 | | | 9 | 1 | 0-2' | soil | 54% | Grass surface | 1.1 ppm |
| | | | 7 | 4 | | | | | | GRAVEL and F-C Sand Fill to 2' | |
| | 2 | 2 | | | 4 | 2 | 2'-4' | soil | 71% | Damp Br Mottled Soft SILT, some F. Sand. Partings evident | |
| 5 | | | 2 | 4 | | | | | | Same. Stiff, becomes Moist at 7'6" | 1.7 ppm |
| | 3 | 4 | | | 10 | 3 | 4'-6' | soil | 63% | | 0.5 ppm |
| 10 | | | 6 | 6 | | | | | | Same, M. Stiff to 8.0'. then Gravel | 0.8 ppm |
| | 3 | 3 | | | 6 | 4 | 6'-8' | soil | 100% | | |
| | | | 3 | 4 | | | | | | | |
| 15 | 8 | 15 | | | 25 | 5 | 8'-10' | soil | 75% | Moist Br. M. Dense F-M GRAVEL, some f-C Sand, Trace Silt | 2.6 ppm |
| | | | 10 | 8 | | | | | | | |
| 20 | 6 | 5 | | | 10 | 6 | 10'-12' | soil | 50% | Same, becomes. Loose, moist | 1.6 ppm |
| | | | 5 | 7 | | | | | | | |
| | 7 | 9 | | | 19 | 7 | 12'-14' | soil | 58% | Same, M. Dense, Saturated. WT ~ 12' | 2.1 ppm |
| 25 | | | 10 | 26 | | | | | | Same, saturated, becomes Gray | 14.7 ppm |
| | 8 | 12 | | | 27 | 8 | 14'-16' | soil | 100% | | 22.0 ppm |
| | | | 15 | 23 | | | | | | | |
| 30 | 10 | 26 | | | 56 | 9 | 16'-18' | soil | 100% | Same, becomes V. Dense | 27.0 ppm |
| | | | 30 | 50 | | | | | | | |
| | 5 | 20 | | | 51 | 10 | 18'-20' | soil | 100% | Same, V. Dense | 10.0 ppm |
| 35 | | | 31 | 23 | | | | | | | |
| | 10 | 10 | | | 31 | 11 | 20'-22' | soil | 100% | Same to 20.5', then Damp Clay | 20.5' |
| | | | 21 | 40 | | | | | | Damp Gray Hard SILT and Clay | 22.0' |
| 40 | | | | | | | | | | Trace pebbles. Glacial Till | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 45 | | | | | | | | | | Boring terminated at 22.0 feet | |
| | | | | | | | | | | 2" diameter monitoring well installed in test boring | |
| | | | | | | | | | | All cuttings placed in drums. Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |

N = The number of blows to advance a 2" Split Spoon 12" with a 140 lb. Hammer dropped 30" each blow.

MONITORING WELL B-6/MW-6



Elevation for Top of Well Riser (TOR) and Grade Elevation are in feet, relative to Mean Sea Level



GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK
MONITORING WELL CONSTRUCTION DETAIL
MW-6

Date installed:
 30-Jul-02

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-7/MW-7

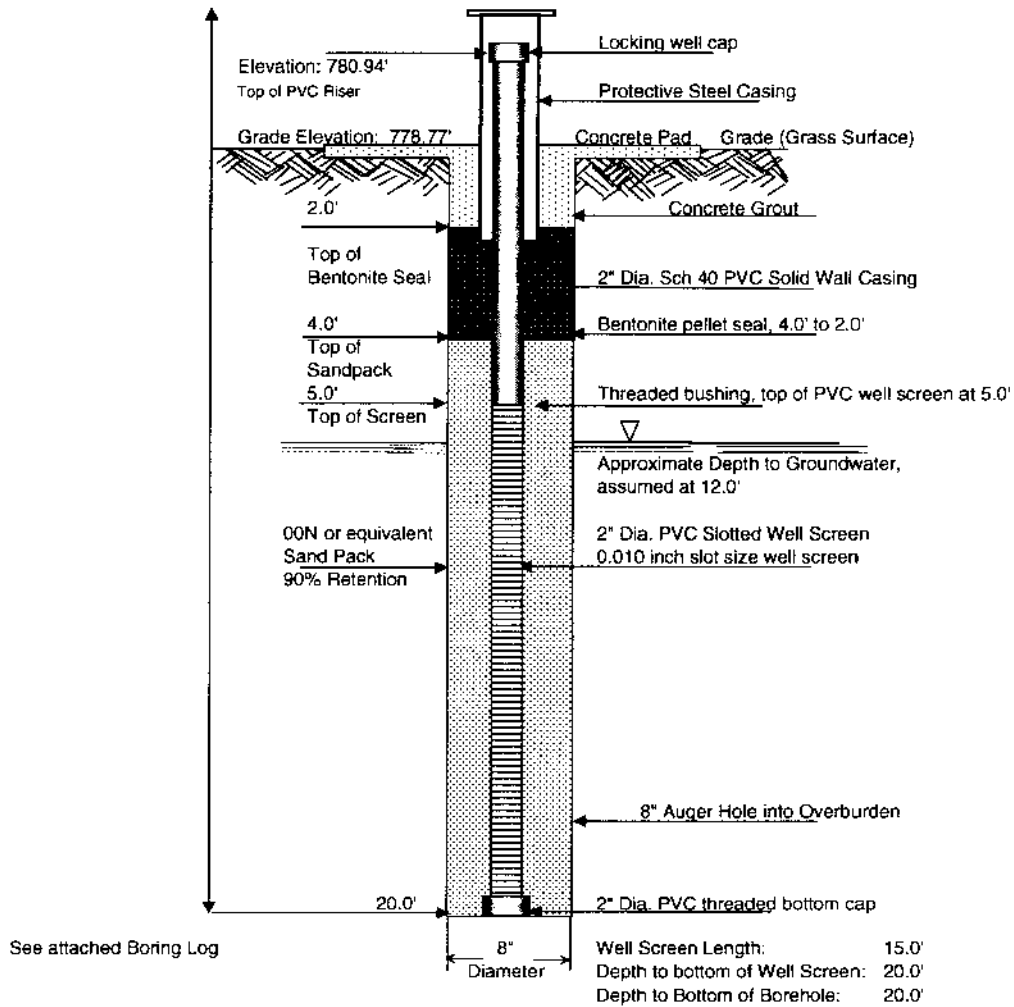
PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/30/02 Finish Date: 07/30/02 Top of Well: N/A Boring No: B-7/MW-7
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In grass strip north of building at northwest corner
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 12 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 15:9" feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 20 ft. to 5.0 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 20.0 ft to 4.0 ft
 Seal: 4.0 to 2.0 feet Weather Conditions: Overcast, humid, 75 degrees in morning

Protective Steel Casing installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|-------|--------|--------|--------|-----|---------|---------------------------|--|---|----------|
| | 0"6" | 6"12" | 12"18" | 18"24" | N | NO. | Depth | | | Type | Recovery |
| 0 | 1 | 4 | | | 11 | 1 | 0-2' | soil | 58% | Grass surface | 1.1 ppm |
| | | | 7 | 11 | | | | | | F. GRAVEL and F-C Sand. Fill 2'2" | |
| | 3 | 5 | | | 7 | 2 | 2'-4' | soil | 71% | Damp Mottled BR & GR M. Stiff SILT. Some F. Sand | |
| 5 | | | 2 | 4 | | | | | | Same M. Stiff. mottled brown & gray | 0.9 ppm |
| | 4 | 3 | | | 6 | 3 | 4'-6' | soil | 71% | | |
| 10 | | | 3 | 5 | | | | | | Same. Soft, mottled brown & gray, moist | 0.7 ppm |
| | | | | | 4 | 4 | 6'-8' | soil | 100% | | |
| | | | 2 | 3 | | | | | | Same SILT to 9.0', then Gravel 9.0' | |
| 15 | 2 | 2 | | | 8 | 5 | 8'-10' | soil | 75% | V. Moist Br F-M M. Dense GRAVEL. | 0.8 ppm |
| | | | 6 | 8 | | | | | | Some F-C Sand, Tr. Silt | |
| | 3 | 3 | | | 4 | 6 | 10'-12' | soil | 33% | Same. becomes V. Loose, Wet at 12' | |
| 20 | | | 1 | WR | | | | | | Same, becomes Loose, saturated | 2.0 ppm |
| | | | | | 7 | 7 | 12'-14' | soil | 38% | | |
| | | | 5 | 6 | | | | | | Same, saturated, becomes Gray | |
| 25 | 3 | 2 | | | 6 | 8 | 14'-16' | soil | 63% | | 2.1 ppm |
| | | | 4 | 29 | | | | | | Same Gray GRAVEL. Some F-C Sand, becomes V. Dense | |
| | 17 | 43 | | | 93 | 9 | 16'-18' | soil | 94% | Same to 19'6" | |
| 30 | | | 50/4" | | | | | | | | 2.1 ppm |
| | 3 | 9 | | | 33 | 10 | 18'-20' | soil | 100% | Damp Gray V. Stiff SILT and Clay | |
| | | | 24 | 24 | | | | | | Glacial Till 20' | |
| 30 | | | | | | | | | | Boring terminated at 20.0 feet 2" diameter monitoring well installed in test boring All cuttings placed in drums. | |
| | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |
| | | | | | | | | | | | |

2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-7/MW-7



NOT TO SCALE

Elevation for Top of Well Riser (TOR) and Grade Elevation are in feet, relative to Mean Sea Level



GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK
MONITORING WELL CONSTRUCTION DETAIL
MW-7

Date Installed:
 30-Jul-02

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-8/MW-8

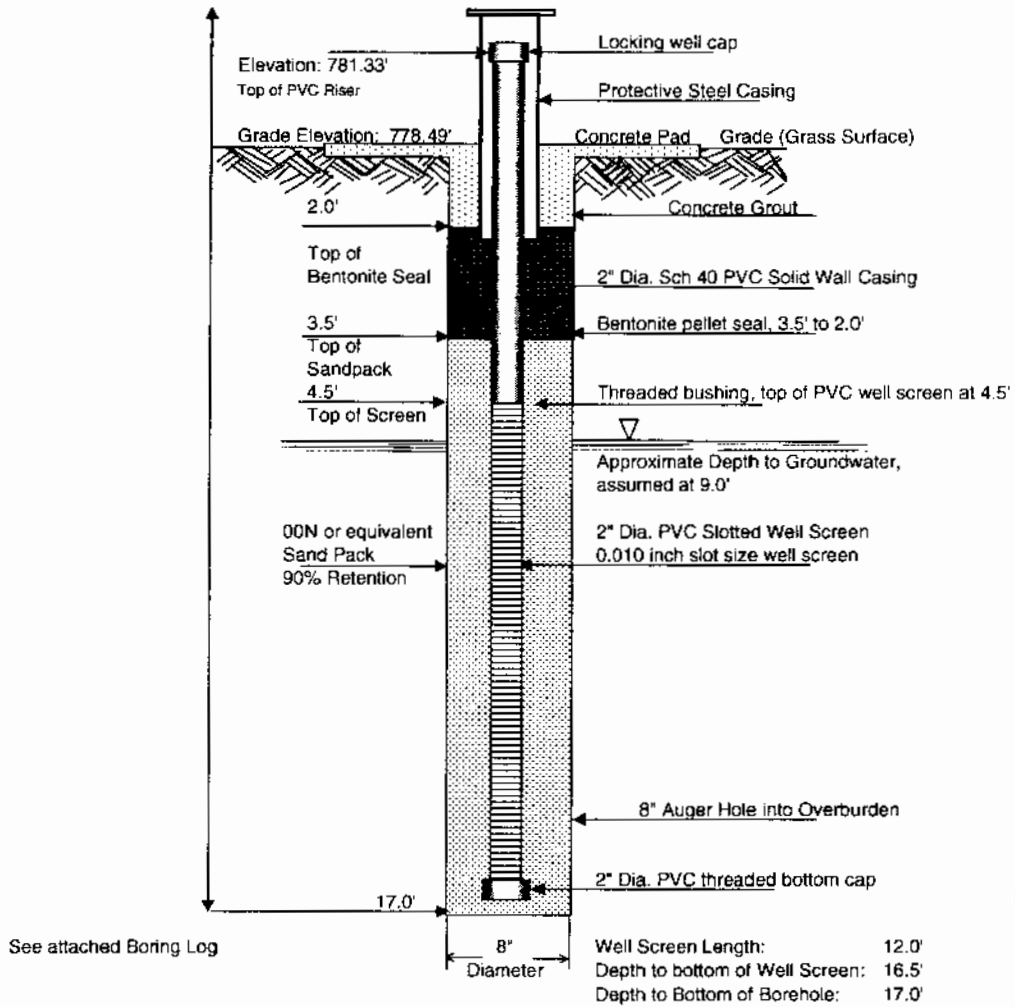
PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/24/02 Finish Date: 07/24/02 Top of Well: N/A Boring No: B-8/MW-8
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In grass at the southwest corner of the building.
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 9 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 7.9 feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 4.5 ft. to 16.5 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 17.0 ft to 3.5 ft
 Seal: 3.5 to 2.0 feet Weather Conditions: Sunny, 80 degrees in afternoon.

Protective Steel Casing installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID |
|-------|------------------|--------|---------|---------|--------|-----|---------|------|----------|---|--|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | Type | Recovery | | |
| 0 | 1 | 5 | | | 10 | 1 | 0'-2' | soil | 75% | Grass surface. Sand & Gr. Fill to 1.0' Damp mottled Loose SILT. Some F. Sand Same damp mottled SILT and F. Sand Loose Same. damp. Loose | ND ND ND |
| | | | 5 | 4 | | | | | | | |
| | 3 | 4 | | | 10 | 2 | 2'-4' | soil | 63% | | |
| 5 | | | 6 | 7 | | | | | | Same. damp. Loose | ND ND |
| | 2 | 4 | | | 9 | 3 | 4'-6' | soil | 75% | | |
| 10 | | | 5 | 5 | | | | | | Same, Very Loose Same to 8'6" 8'6" Wet F-M GRAVEL, some F-C Sand | ND ND ND |
| | | | | | 2 | 4 | 6'-8' | soil | 13% | | |
| | WH | 4 | | | 11 | 5 | 8'-10' | soil | 67% | | |
| 15 | | | 7 | 20 | | | | | | Same, M. Dense, saturated, trace silt Same, saturated, M. Dense | ND ND ND |
| | 5 | 11 | | | 22 | 6 | 10'-12' | soil | 33% | | |
| | | | 11 | 10 | | | | | | | |
| 20 | | | | | 25 | 7 | 12'-14' | soil | 58% | Same to 15'10" 15'10" Damp Hard Gray CLAY Trace gravel-pebbles, TILL 17' | ND ND ND |
| | | | 14 | 23 | | | | | | | |
| | 5 | 12 | | | 24 | 8 | 14'-16' | soil | 58% | | |
| 25 | | | 12 | 12 | | | | | | Boring terminated at 17.0 feet 2" diameter monitoring well installed in test boring. All cuttings placed in drums. | |
| | 41 | 50/4 | | | 50+ | 9 | 16'-17' | soil | 83% | | |
| | | | | | | | | | | | |
| 30 | | | | | | | | | | Minirac 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-8/MW-8



NOT TO SCALE

Elevation for Top of Well Riser (TOR) and Grade Elevation are in feet, relative to Mean Sea Level



GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK
MONITORING WELL CONSTRUCTION DETAIL
MW-8

Date Installed:
24-Jul-02

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-9/MW-9

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/11/02 Finish Date: 07/11/02 Top of Well: N/A Boring No: B-9/MW-9
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: By access road, west of the building.
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 8 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 13'4" feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 5.0 ft. to 20.0 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 20.0 ft to 4.0 ft

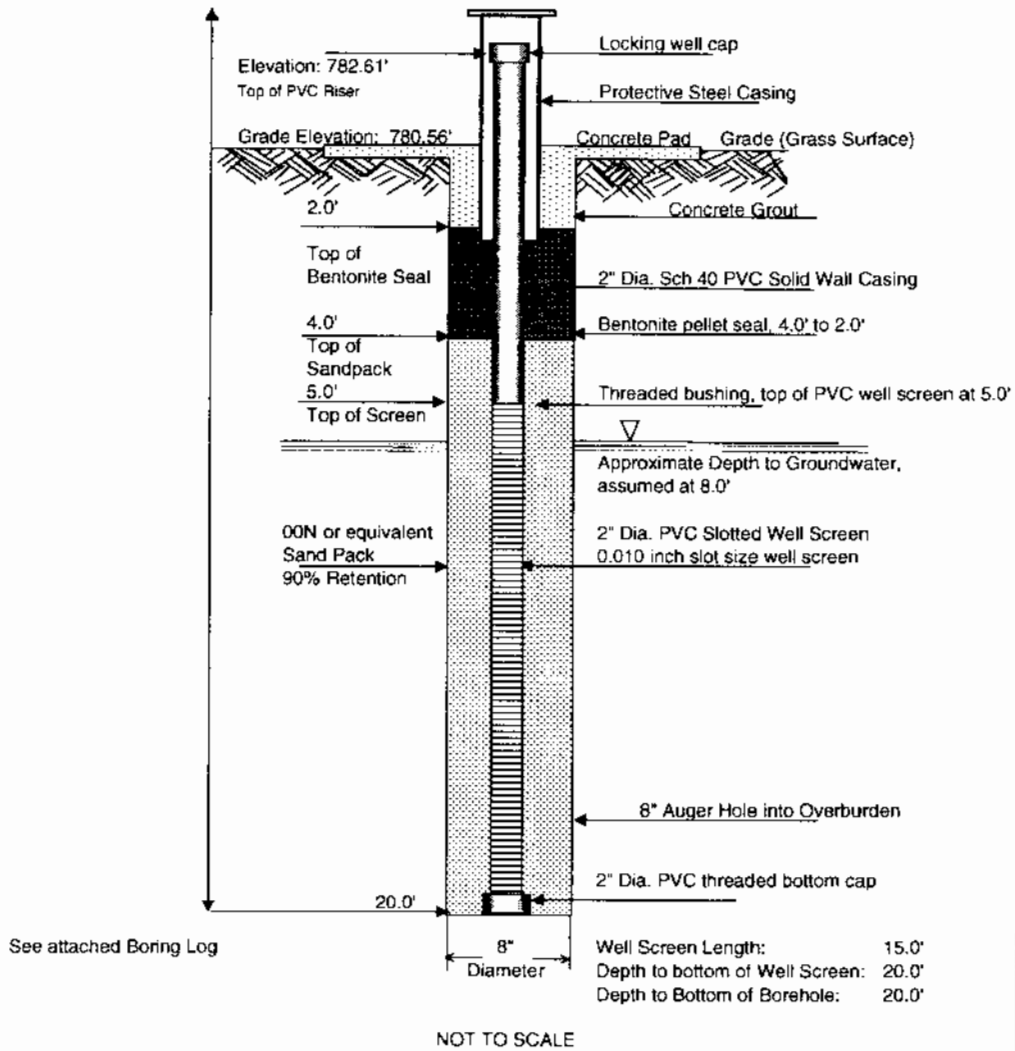
Seal: 4.0 to 2.0 feet Weather Conditions: Sunny, 65 degrees F in Morning

Protective Steel Casing installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|--|----------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery |
| 0 | 11 | 12 | | | 19 | 1 | 0-2' | soil | 67% | Grass surface; Gravel Fill to 1.0' 1.0' Damp Br. Stiff SILT, mottled, partings Same SILT, Stiff, little F. Sand Same Damp Br. Silt, layers of F. Sand Same SILT, V. Soft, some F. Sand Wet, Saturated at 8.0' Brown F. SAND, some Silt, Saturated 10.0' | ND |
| | | | 7 | 7 | | | 2'-4' | soil | 63% | | |
| | 5 | 6 | | | 15 | 2 | 4'-6' | soil | 83% | | |
| 5 | 4 | 7 | | | 13 | 3 | | | | | |
| | | | 6 | 6 | | | 6'-8' | soil | 83% | | |
| | 2 | 2 | | | 3 | 4 | 8'-10' | soil | 83% | | |
| 10 | WH | WH | | | 3 | 5 | | | | | |
| | | | 3 | 10 | | | | | | | |
| | WH | 1 | | | 6 | 6 | 10'-12' | soil | 25% | Saturated Br to Gr Loose F-M GRAVEL Some F-C Sand, Trace Silt | ND |
| 15 | | | 5 | 5 | | | 12'-14' | soil | 83% | Same, Saturated, M. Dense | ND |
| | 5 | 7 | | | 16 | 7 | 14'-16' | soil | 58% | Same, Wet, M. Dense | ND |
| | | | 9 | 8 | | | | | | | |
| 20 | 8 | 3 | | | 12 | 8 | | | | | |
| | | | 9 | 12 | | | 16'-18' | soil | 33% | Same, Wet, Dense F-M GRAVEL, Some F-C Sand, Trace Silt 19.5" | ND |
| | 22 | 16 | | | 31 | 9 | 18'-20' | soil | 83% | Damp Grey V. Stiff SILT, Little Clay, Trace Gravel. Laminated. TILL. 20' | |
| 25 | | | 15 | 10 | | | | | | | |
| | 4 | 5 | | | 20 | 10 | | | | | |
| | | | 15 | 25 | | | | | | | |
| 30 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-9/MW-9



Elevation for Top of Well Riser (TOR) and Grade Elevation are in feet, relative to Mean Sea Level



**GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK
MONITORING WELL CONSTRUCTION DETAIL
MW-9**

Date Installed:
11-Jul-02

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-10/MW-10

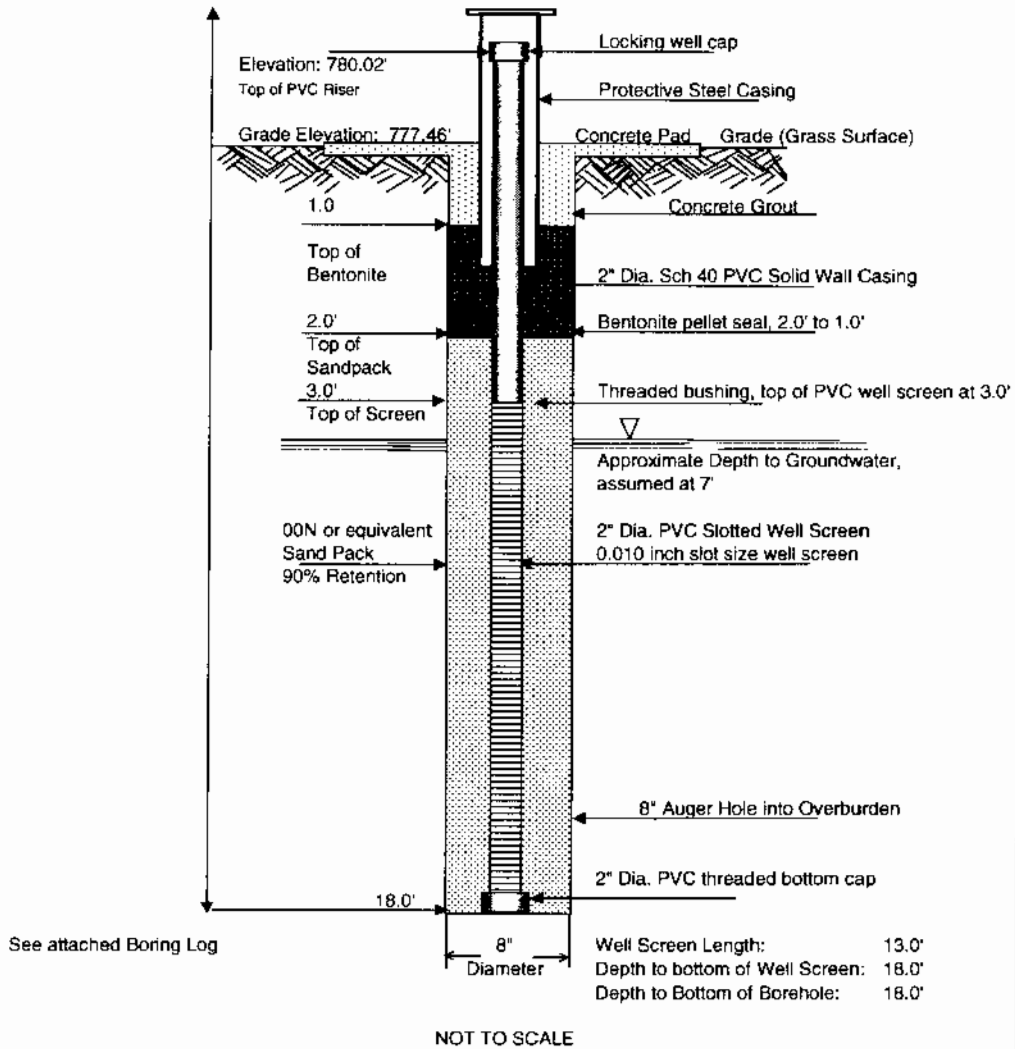
PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/10/02 Finish Date: 07/10/02 Top of Well: N/A Boring No: B-10/MW-10
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In grass south of the building, near property line
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 7 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 6' 6" feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 3.0 ft. to 18.0 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 18.0 ft to 2.0 ft
 Seal: 2.0 to 1.0 feet Weather Conditions: Sunny, 80 degrees in afternoon.

Protective Steel Casing installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|---|----------|---|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery | |
| 0 | 1 | 3 | | | 9 | 1 | 0'-2' | soil | 58% | Grass, then Fill: Damp F-C SAND and Gravel, Brick fragments' 2.5' | ND | |
| | | | 6 | 5 | | | | | | | | |
| | 3 | 3 | | | 9 | 2 | 2'-4' | soil | 42% | | | Damp mottled Stiff SILT, little fine Sand. |
| 5 | | | 6 | 6 | | | | | | V.Moist Loose F. SAND, Some Silt | ND | |
| | 5 | 5 | | | 9 | 3 | 4'-6' | soil | 83% | | | |
| 10 | | | 4 | 2 | | | | | | Wet Brown Soft SILT, Some F. Sand 7' | ND | |
| | | | | | 8 | 4 | 6'-8' | soil | 33% | | | |
| | | | 5 | 7 | | | | | | | | Wet Brown M. Dense M-F GRAVEL, Some Fine to Coarse Sand Same Gravel, Saturated, Loose |
| | 8 | 3 | | | 9 | 5 | 8'-10' | soil | 42% | | | |
| 15 | | | 6 | 10 | | | | | | Same Gravel, Saturated, M. Dense | ND | |
| | 4 | 11 | | | 22 | 6 | 10'-12' | soil | 50% | | | |
| | | | 11 | 12 | | | | | | | | Same, becomes Gray, Loose |
| | 6 | 3 | | | 7 | 7 | 12'-14' | soil | 83% | | | |
| 20 | | | 4 | 4 | | | | | | Same Gray Gravel, some Sand, Dense Same to 17.5' | ND | |
| | 6 | 14 | | | 34 | 8 | 14'-16' | soil | 83% | | | |
| | | | 20 | 30 | | | | | | | | Damp Grey Hard SILT, Little Clay, Trace Gravel. Laminated. TILL 18' |
| | 22 | 36 | | | 85 | 9 | 16'-18' | soil | 75% | | | |
| 25 | | | 49 | 40 | | | | | | Boring terminated at 18.0 feet 2" diameter monitoring well installed in test boring. All cuttings placed in drums. | ND | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 30 | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | ND | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

N = The number of blows to advance a 2" Split Spoon 12" with a 140 lb. Hammer dropped 30" each blow.

MONITORING WELL B-10/MW-10



Elevation for Top of Well Riser (TOR) and Grade Elevation are in feet, relative to Mean Sea Level



GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK
MONITORING WELL CONSTRUCTION DETAIL
MW-10

Date Installed:
 10-Jul-02

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-11/MW-11

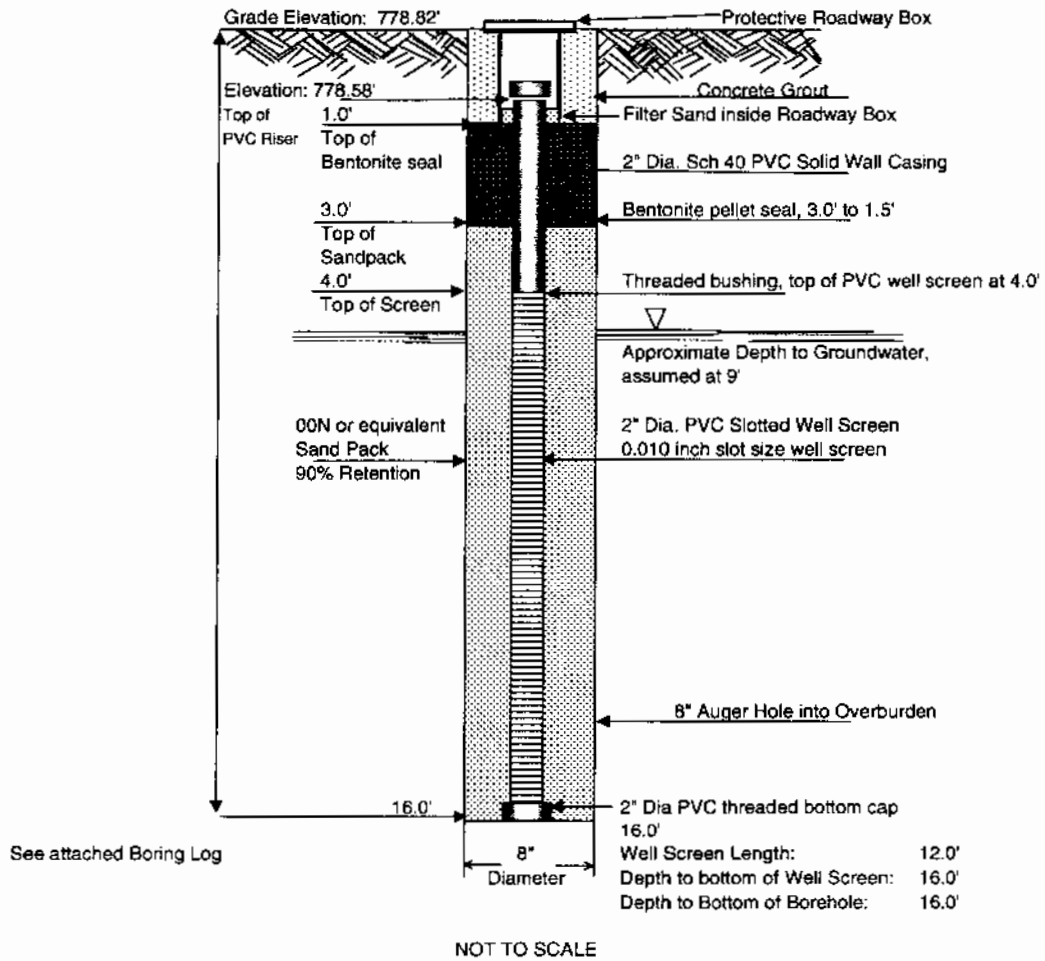
PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/17/02 Finish Date: 07/17/02 Top of Well: N/A Boring No: B-11/MW-11
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: Inside the Building, by Nurse Clinic, Room 39
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 9 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, skid rig Water Level (Post Drilling): Approx. 10 feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 16 ft. to 4 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 16.0 ft to 3.0 ft
 Seal: 3.0 to 1.0 feet Weather Conditions: Not applicable: work was indoors.

Flush to grade roadway box installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | | Field Screening for VOCs, ppm, using PID | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|-----|---|---|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | | Type |
| 0 | | 14 | | | 48 | 1 | 0-2' | soil | 67% | Concrete floor to 0.5 feet | ND |
| | | | 34 | 30 | | | | | | Damp Dark Br. F-C SAND and F-M Gravel, Some Silt. FILL 3.0' | |
| 5 | not recorded | | | | 0 | 2 | 2'-4' | soil | 58% | Damp Brown mottled SILT, some F. Sand | 74 ppm |
| | | | | | | | | | | Moist mottled Stiff SILT, some F. Sand | 130 ppm |
| 10 | 2 | 5 | | | 9 | 3 | 4'-6' | soil | 38% | V. Moist at 6' | 75 ppm |
| | | | 4 | 4 | | | | | | Moist Br. Stiff SILT, some F-C Sand | |
| | 5 | 5 | | | 10 | 4 | 6'-8' | soil | 13% | Same to 8' 8.0' | |
| 15 | | | 5 | 6 | | | | | | Saturated Br. Loose F-M GRAVEL, some F-C Sand, trace silt | 60 ppm |
| | 4 | 1 | | | 5 | 5 | 8'-10' | soil | 17% | Same, becomes Dense G-M Gravel, some F-C Sand, Trace Silt | 41 ppm |
| | | | 4 | 11 | | | | | | Same, becomes V. Dense | 41 ppm |
| 20 | 15 | 18 | | | 38 | 6 | 10'-12' | soil | 50% | Same Saturated Gravel and Sand to 15'3" 15'3" | 32.8 ppm |
| | | | 20 | 20 | | | | | | Damp Gray Hard Silty CLAY, laminated, trace pebbles. TILL 16' | 33.5 ppm |
| | 7 | 26 | | | 60 | 7 | 12'-14' | soil | 79% | | |
| 25 | | | 34 | 27 | | | | | | Boring terminated at 16.0 feet | All cuttings placed in drums. |
| | 16 | 32 | | | 68 | 8 | 14'-16' | soil | 63% | 2" diameter monitoring well installed in test boring. | |
| 30 | | | 36 | 48 | | | | | | All cuttings placed in drums. | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs |
| | | | | | 0 | 9 | 16'-18' | soil | 75% | | |
| | | | | | | | | | | | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-11/MW-11



Elevation for Top of Well Riser (TOR) and Grade Elevation are in feet, relative to Mean Sea Level



GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK

MONITORING WELL CONSTRUCTION DETAIL
MW-11

Date Installed:
17-Jul-02

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-12/MW-12

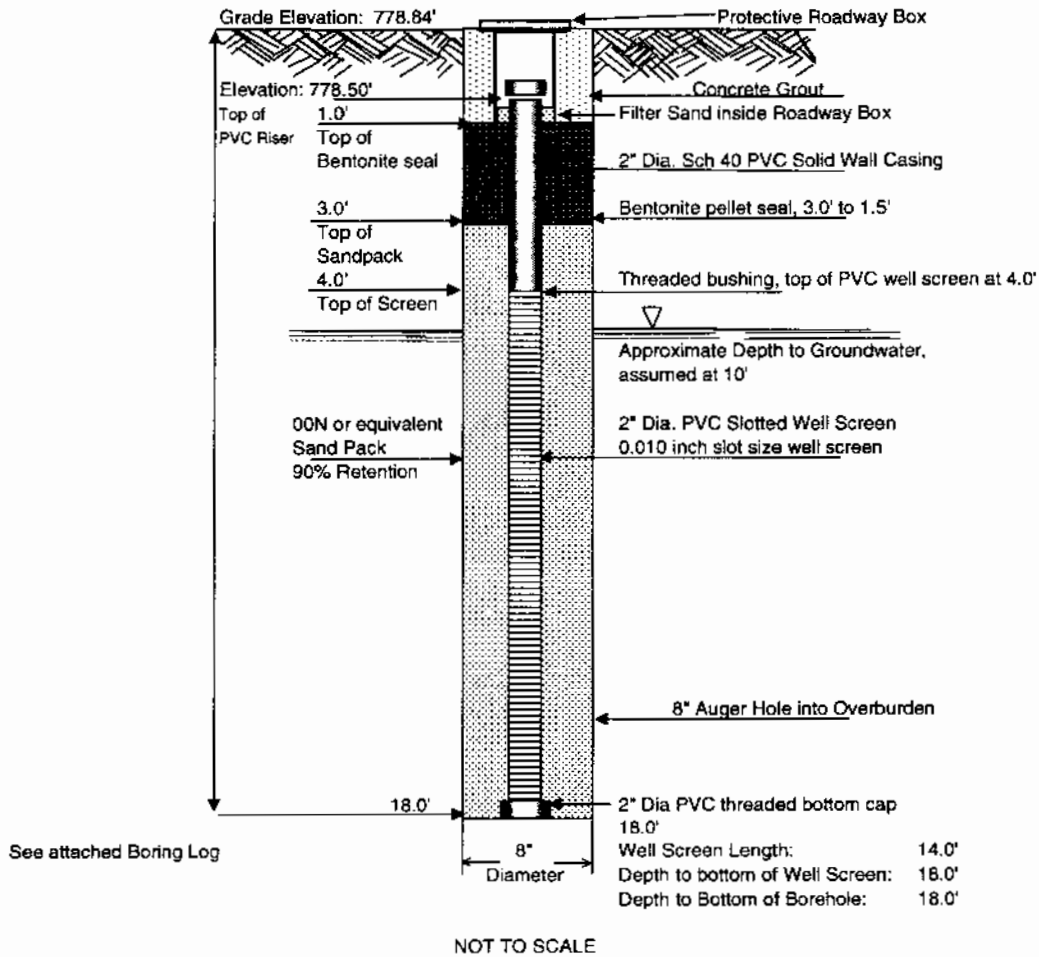
PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/16/02 Finish Date: 07/16/02 Top of Well: N/A Boring No: B-12/MW-12
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: Inside the Building, by Cafeteria, Room 50
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 10.0 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, skid rig Water Level (Post Drilling): Approx. 10 feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 18 ft. to 4 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 18.0 ft to 3.0 ft
 Seal: 3.0 to 1.0 feet Weather Conditions: Not applicable: work was indoors.

Flush to grade roadway box installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|---|---------------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery |
| 0 | | 18 | | | 46 | 1 | 0-2' | soil | 83% | Concrete floor to 0.5 feet | |
| | | | 28 | 45 | | | | | | Damp Br. F-C SAND and F-M Gravel | 7.0 ppm |
| | 23 | 6 | | | 14 | 2 | 2'-4' | soil | 58% | Trace silt. Reworked. Fill | 3.0' 8.0 ppm |
| 5 | | | 8 | 6 | | | | | | Damp mottled Stiff SILT. Some F-C Sand | |
| | 8 | 12 | | | 20 | 3 | 4'-6' | soil | 63% | Same, V. Stiff SILT. some F. Sand | 6.5 ppm |
| 10 | | | 8 | 6 | | | | | | Same, Damp, Stiff SILT, some F. Sand | 10.0 ppm |
| | 6 | 5 | | | 10 | 4 | 6'-8' | soil | 25% | | |
| | | | 5 | 4 | | | | | | same Silt & F. Sand to 9.0' | 9.0' 8.9 ppm |
| 15 | | | | | 0 | 5 | 8'-10' | soil | 83% | Wet Br. F-M GRAVEL and F-C Sand | |
| | 9 | 17 | | | 32 | 6 | 10'-12' | soil | 42% | Wet brown Dense F-M GRAVEL, some F-C Sand, Trace Silt. | 16.0 ppm |
| 20 | | | 15 | 12 | | | | | | Same, M. Dense, saturated | 30.0 ppm |
| | 8 | 12 | | | 24 | 7 | 12'-14' | soil | 75% | | |
| | | | 12 | 8 | | | | | | Same, M. Dense, saturated F-M GRAVEL | 14.0 ppm |
| 25 | 22 | 39 | | | 75 | 8 | 14'-16' | soil | 63% | some F-C Sand, Tr. Silt | |
| | | | 36 | 34 | | | | | | Same to 17' 2" | 17.17 9.0 ppm |
| | 21 | 14 | | | 64 | 9 | 16'-18' | soil | 75% | Damp Gray Hard SILT and Clay, Laminated TILL | 18' 15 ppm |
| 30 | | | 50 | 50/4" | | | | | | Boring terminated at 18.0 feet | |
| | | | | | | | | | | 2" diameter monitoring well installed in test boring. | |
| | | | | | | | | | | All cuttings placed in drums. | |
| | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-12/MW-12



Elevation for Top of Well Casing (TOC) and Grade Elevation are in feet, relative to Mean Sea Level



**GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK**

**MONITORING WELL CONSTRUCTION DETAIL
MW-12**

Date Installed:
16-Jul-02

DRILLING LOG



B E R G M A N N
associates

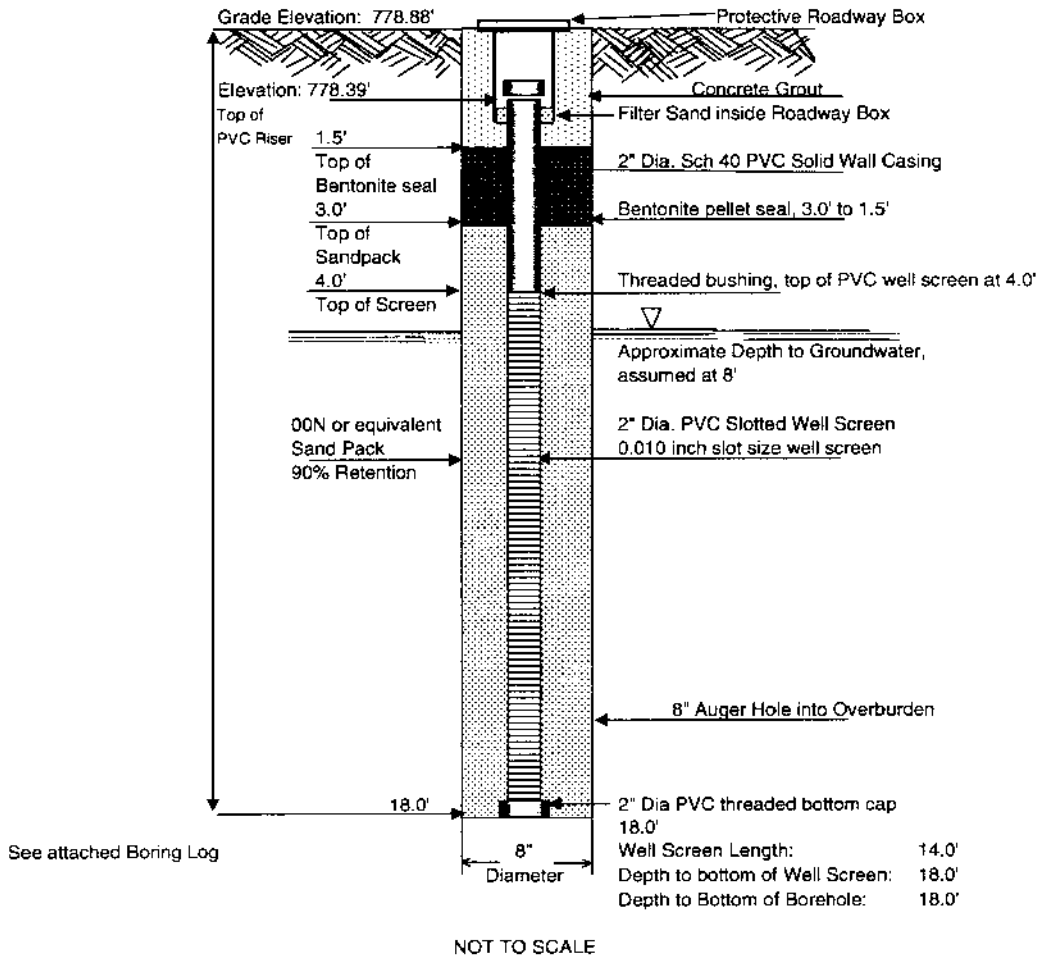
BORING/WELL NUMBER: Test Boring B-13/MW-13

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/15/02 Finish Date: 07/16/02 Top of Well: N/A Boring No: B-13/MW-13
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: Inside the Building, in hallway by Room 58B
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 8 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, skid rig Water Level (Post Drilling): Approx. 14.5 feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 18 ft. to 4 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 18.0 ft to 3.0 ft
 Seal: 3.0 to 1.5 feet Weather Conditions: Not applicable: work was indoors.
Flush to grade roadway box installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|---|----------|-----|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery | |
| 0 | | 7 | | | 18 | 1 | 0-2' | soil | 44% | Concrete floor to 0.5 feet | ND | |
| | | | 11 | 12 | | | 2'-4' | soil | 25% | Damp brown F-C SAND and F-G Gravel. Tr. Silt | | |
| | 23 | 11 | | | 18 | 2 | | | | Re-Worked soil. Fill | | |
| 5 | | | 7 | 8 | | | 4'-6' | soil | 63% | Fill to 4.5' | 4.5' | ND |
| | 10 | 8 | | | 17 | 3 | | | | Damp Brown V. Still SILT and F-Sand, Faint partings/laminae to 6' | 6.0' | ND |
| 10 | | | 9 | 8 | | | 6'-8' | soil | 54% | Damp dark Br. M Dense F-C SAND and F-M Gravel, Tr. Silt. Wet at 8' | ND | |
| | 12 | 18 | | | 29 | 4 | | | | Wet Gr. Br. M. Dense F-M GRAVEL | | |
| | 14 | 6 | | | 20 | 5 | 8'-10' | soil | 83% | some F-C Sand, Tr. Silt | | |
| 15 | | | 14 | 9 | | | 10'-12' | soil | 25% | Same, Wet, becomes Dense | 9.0 ppm | |
| | 3 | 5 | | | 33 | 6 | | | | 12'-14' | soil | 63% |
| | 20 | 17 | | | 49 | 7 | 14'-16' | soil | 25% | Same, becomes V. Dense | ND | |
| 20 | | | 20 | 12 | | | 16'-18' | soil | 50% | Same, M. Dense to 17.5" | 17.5' | ND |
| | 10 | 6 | | | 16 | 9 | | | | Damp Gray Hard CLAY and Silt | 18' | ND |
| | | | 10 | 30 | | | | | | Boring terminated at 18.0 feet | | |
| 25 | | | | | | | | | | 2" diameter monitoring well installed in test boring. | | |
| | | | | | | | | | | All cuttings placed in drums. | | |
| | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | | |
| 30 | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-13/MW-13



Elevation for Top of Well Casing (TOC) and Grade Elevation are in feet, relative to Mean Sea Level



**GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK**

**MONITORING WELL CONSTRUCTION DETAIL
MW-13**

Date Installed:
16-Jul-02

DRILLING LOG



B E R G M A N N
associates

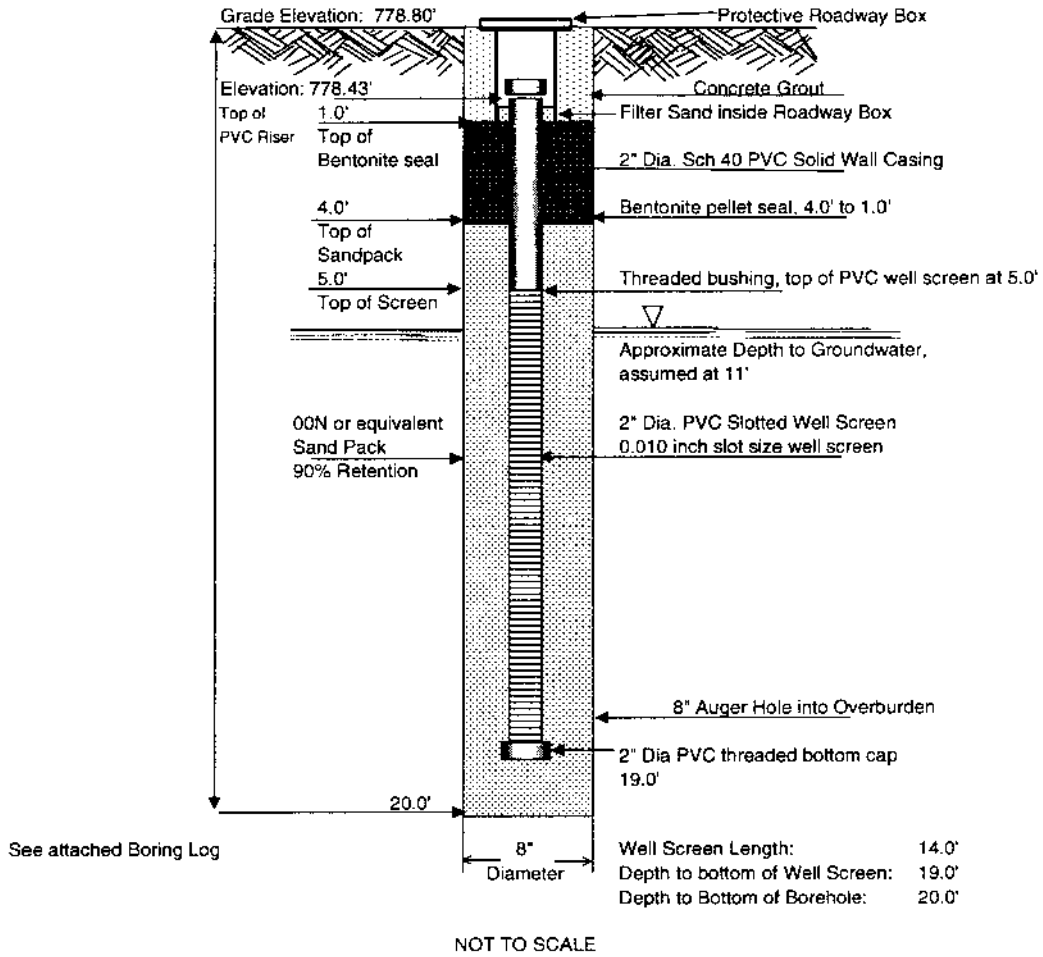
BORING/WELL NUMBER: Test Boring B-14/MW-14

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/18/02 Finish Date: 07/18/02 Top of Well: N/A Boring No: B-14/MW-14
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: Inside loading dock area, by east wall.
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 11 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, skid rig Water Level (Post Drilling): Approx. feet 13 below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 19 ft. to 5 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 19.0 ft to 4.0 ft
 Seal: 4.0 feet to 1.0 feet Weather Conditions: Not applicable: work was indoors.
Flush to grade roadway box installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | | | | | | |
|-------|------------------|--------|---------|---------|--------|---------|---------|---------------------------|---|--|-------------------|---------|------|------|---|--------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery | | | | | |
| 0 | | 6 | | | 17 | 1 | 0-2' | soil | 78% | Concrete floor to 0.5 feet | 16 ppm 120 ppm | | | | | |
| | 14 | 9 | 11 | 20 | 15 | 2 | 2'-4' | soil | 42% | Damp Brown F-C Sand and F-C Gravel Fill to 3'6" | | | | | | |
| 5 | | | 6 | 20 | | | 4'-6' | soil | 75% | Damp Dark Brown SILT, some F. Sand Damp mottled M. Stiff SILT, some F-Sand | 51 ppm | | | | | |
| | 5 | 3 | | | 8 | 3 | | | | | | | | | | |
| 10 | | | 5 | 5 | | | 6'-8' | soil | 58% | Same Silt, inter-layered with F-M Sand | 78.5 ppm | | | | | |
| | 6 | 5 | | | 11 | 4 | | | | | | | | | | |
| | WH | WH | | | 1 | 5 | | | | | | 8'-10' | soil | 50% | Damp Br. V. Soft SILT, some F. Sand Wet Brown F SAND, Some Silt | 42 ppm |
| 15 | | | 1 | 1 | | | 10'-12' | soil | 58% | same to 11' | 11' | | | | | |
| | 1 | 2 | | | 8 | 6 | | | | | | | | | | |
| | | | 6 | 7 | | | | | | | | 12'-14' | soil | 54% | Wet F-M GRAVEL some F-C Sand Same, saturated, with a trace of Silt | 60 ppm |
| | 14 | 15 | | | 33 | 7 | | | | | | | | | | |
| | | 18 | 12 | | | 14'-16' | soil | 50% | Same saturated Gravel, M. Dense | 53 ppm | | | | | | |
| 3 | 8 | | | 14 | 8 | | | | | | | | | | | |
| 20 | | | 6 | 5 | | | 16'-18' | soil | 91% | Same to 17' | 43 ppm | | | | | |
| | 10 | 18 | | | 66 | 9 | | | | | | | | | | |
| | | | 48 | 50/4" | | | | | | | | 18'-20' | soil | 100% | Wet Grey M. Dense F-M GRAVEL Some F-C Sand | 18'6" |
| | 8 | 29 | | | 69 | 10 | | | | | | | | | | |
| | | 40 | 50/2" | | | | | | Damp Gray Hard SILT and Clay, Trace Pebbles TILL | 20' | 53 ppm | | | | | |
| 25 | | | | | | | | | | Boring terminated at 20.0 feet 2" diameter monitoring well installed in test boring. | | | | | | |
| | | | | | | | | | | All cuttings placed in drums. | | | | | | |
| | | | | | | | | | | Minirae 2000 PID with 10.6 cv lamp used to screen soil samples for VOCs | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-14/MW-14



Elevation for Top of Well Casing (TOC) and Grade Elevation are in feet, relative to Mean Sea Level



GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK

MONITORING WELL CONSTRUCTION DETAIL
MW-14

Date Installed:
 18-Jul-02

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-15/MW-15

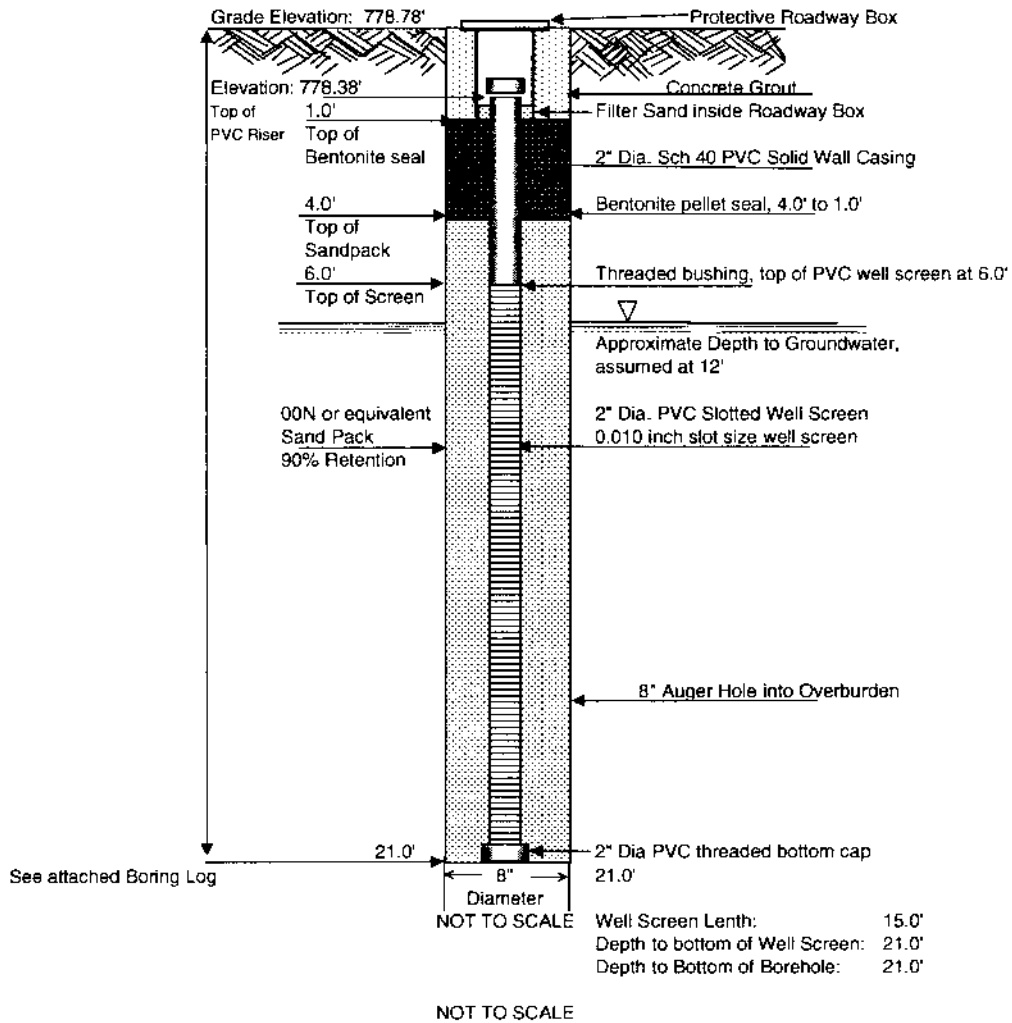
PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/19/02 Finish Date: 07/19/02 Top of Well: N/A Boring No: B-15/MW-15
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: Inside building, in north cafeteria, room 124
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 12 feet
 Drilling Method: 4-1/4 inch Hollow Stem Augers, skid rig Water Level (Post Drilling): Approx. 15 feet below grade
 Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed via auger pull back method.
 Screened Interval: 21 ft. to 6 ft. Slot Size: 0.010 inch Well Type: 2" dia. PVC Sandpack: 21.0 ft to 4.0 ft
 Seal: 4.0 feet to 1.0 feet Weather Conditions: Not applicable: work was indoors.

Flush to grade roadway box installed over the monitoring well.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|--|--------------------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery |
| 0 | | 7 | | | 21 | 1 | 0-2' | soil | 72% | Concrete floor to 0.5 feet | 102 ppm 161 ppm |
| | | | 14 | 30 | | | 2'-4' | soil | 58% | Damp F-C SAND and F-C Gravel Fill to 3.5' | |
| 5 | | | 5 | 4 | | | 4'-6' | soil | 75% | Mottled Soft SILT. Some F. Sand | 99 ppm |
| | 1 | 1 | | | 4 | 3 | | | | Damp mottled Soft SILT, some F-Sand | |
| 10 | | | 3 | 5 | | | 6'-8' | soil | 67% | Moist mottled stiff SILT, Some F. Sand partings/faint laminations evident | 96.6 ppm |
| | | | 6 | 7 | | | 8'-10' | soil | 67% | Same to 9'6" | 77 ppm |
| | 3 | 2 | | | 9 | 5 | | | | Damp Br. F-M GRAVEL, some F-C Sand, Tr. Silt | |
| 15 | | | 7 | 8 | | | 10'-12' | soil | 50% | same, becomes M. Dense, wet at 11'10" | 83 ppm |
| | | | 7 | 10 | | | 12'-14' | soil | 33% | Same, saturated | 84 pm |
| | | | 2 | 1 | | | | | | 14'-16' | soil |
| 20 | | | 5 | 9 | | | 16'-18' | soil | 91% | Same, saturated, becomes V. Dense | 70.2 ppm |
| | 25 | 34 | | | 68 | 9 | 18'-20' | soil | 50% | Same, becomes Dense | 75.4 ppm |
| | | | 34 | 42 | | | | | | 20'-22' | soil |
| 25 | | | 5 | 15 | | | 20-22' | soil | | Same to 20.5' | 20.5' |
| | | | 25 | 35 | | | | | | Gray hard CLAY and Silt, TILL 21' | not recorded |
| | | | | | | | | | | Boring terminated at 21.0 feet 2" diameter monitoring well installed in test boring. | |
| 30 | | | | | | | | | | All cuttings placed in drums. Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

MONITORING WELL B-15/MW-15



Elevation for Top of Well Casing (TOC) and Grade Elevation are in feet, relative to Mean Sea Level



GOWANDA DAY HABILITATION CENTER
4 INDUSTRIAL PLACE, GOWANDA, NEW YORK
MONITORING WELL CONSTRUCTION DETAIL
MW-15

Date Installed:
 19-Jul-02

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-16

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/08/02 Finish Date: 07/08/02 Top of Well: N/A Boring No: B-16
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In former ballfield, southwest corner of property
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 7 feet.
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 8.5 feet below grade
 Remarks: Advanced test borings via HSA. Boring backfilled with grout after completion. No well installed.
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: Sunny and clear, 80 degrees F.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|---|----------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery |
| 0 | 2 | 2 | | | 4 | 1 | 0-2' | soil | 50% | Grass surface, then Brown Soft SILT and F. Sand. Roots to 4" Same, becomes M. Stiff Same, becomes v. moist to Wet | ND |
| | | | 2 | 2 | | | | | | | |
| | 2 | 3 | | | 6 | 2 | 2'-4' | soil | 75% | | |
| 5 | | | 3 | 4 | | | | | | Same | ND |
| | 2 | 3 | | | 6 | 3 | 4'-6' | soil | 92% | | |
| | | | 3 | 2 | | | | | | | |
| 10 | 2 | 1 | | | 2 | 4 | 6'-8' | soil | 92% | Saturated at 7' -WT, becomes Soft | ND |
| | | | 1 | 1 | | | | | | | |
| | 1 | WR | | | 2 | 5 | 8'-10' | soil | 100% | | |
| 15 | | | 1 | WR | | | | | | Same, saturated. V. Soft | ND |
| | WH | WH | | | 1 | 6 | 10'-12' | soil | 13% | | |
| | | | WH | 1 | | | | | | | |
| 20 | 5 | 6 | | | 11 | 7 | 12'-14' | soil | 25% | Wet Br. M. Dense F-M GRAVEL, Some F-C Sand Same, becomes V. Dense | ND |
| | | | 5 | 5 | | | | | | | |
| | 5 | 10 | | | 24 | 8 | 14'-16' | soil | 75% | | |
| 25 | | | 14 | 11 | | | | | | Same | ND |
| | 10 | 19 | | | 39 | 9 | 16'-18' | soil | 83% | | |
| | | | 20 | 16 | | | | | | | |
| 30 | | | | | | | | | | Grey Clay and Silt at 18' | ND |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-17

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/09/02 Finish Date: 07/09/02 Top of Well: N/A Boring No: B-17
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In former ballfield, southwest corner of property
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 8.0 feet.
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. feet below grade
 Remarks: Advanced test borings via HSA. Boring backfilled with grout after completion. No well installed.
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: Hazy & overcast, then heavy rain and lightning in late morning/afternoon

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|--|----------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery |
| 0 | 3 | 2 | | | 4 | 1 | 0-2' | soil | 42% | Grass surface, then Damp Brown Soft SILT, mottled brown & gray Same, becomes M. Stiff Silt is interlayered with M-F Sand V. Moist Br. M. Dense F. SAND, Some Silt. Gravel at 6' 6' | ND |
| | 4 | 3 | 2 | 2 | 8 | 2 | 2'-4' | soil | 83% | | |
| | | | 5 | 7 | | | | | | | |
| 5 | 2 | 4 | | | 12 | 3 | 4'-6' | soil | 50% | Wet Loose F-M GRAVEL and Fine to Coarse Sand Same Gravel and Sand, Saturated | ND |
| | | | 8 | 11 | 8 | 4 | 6'-8' | soil | 42% | | |
| | | | 4 | 4 | 2 | 5 | 8'-10' | soil | 8% | | |
| 10 | | | WR | WR | | | | | | Wet Br. SILT & F. Sand to 11' Saturated M. Dense GRAVEL & Sand Same saturated brown M. Dense GRAVEL, some F-C Sand. Trace silt Same to 16' | ND |
| | 5 | 5 | | | 12 | 6 | 10'-12' | soil | 58% | | |
| | | | 7 | 8 | 19 | 7 | 12'-14' | soil | 67% | | |
| 15 | 8 | 11 | | | | | | | | at 16' Begin Gray CLAY and Silt | ND |
| | | | 8 | 9 | 30 | 8 | 14'-16' | soil | 75% | | |
| | 10 | 14 | | | | | | | | | |
| 20 | | | 16 | 16 | | | | | | Boring terminated at 16.0 feet. Boring backfilled with Bentonite pellets, hydrated. All cuttings placed in drums. | ND |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 25 | | | | | | | | | | Minirac 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-18

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1

Start Date: 07/10/02 Finish Date: 07/10/02 Top of Well: N/A Boring No: B-18

Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In parking lot south of the building.

Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 5 feet.

Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. feet 7' 3" below grade

Remarks: Advanced test borings via HSA. Boring backfilled with grout after completion. No well installed.

Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.

Seal: Backfilled boring with bentonite grout Weather Conditions: Sunny, 70 degrees F in the morning.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | | | Field Screening for VOCs, ppm, using PID |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|----------|---|--|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | Type | Recovery | | |
| 0 | 19 | 8 | | | 11 | 1 | 0-2' | soil | 25% | Asphalt surface | ND |
| | | | 3 | 2 | | | | | | Fine Gravel and F-C Sand, FILL 2.0' | |
| 5 | 2 | 2 | | | 6 | 2 | 2'-4' | soil | 92% | Damp Gray M. Stiff SILT, mottled | ND |
| | | | 4 | 2 | | | | | | Interlayered with Fine SAND and Silt | |
| 10 | 2 | 2 | | | 3 | 3 | 4'-6' | soil | 83% | V. Moist Brown V. Loose F SAND, | ND |
| | | | 1 | 1 | | | | | | Some Silt. WET at 5.0' | |
| 15 | 1 | 1 | | | 2 | 4 | 6'-8' | soil | 42% | Wet Soft SILT and F. Sand to 7.5' | ND |
| | | | 1 | 4 | | | | | | Wet Br. M. Dense F-M GRAVEL, | |
| 20 | 6 | 9 | | | 15 | 5 | 8'-10' | soil | 42% | Some F-C Sand, Trace Silt | ND |
| | | | 6 | 6 | | | | | | Same Wet Gravel, M. Dense | |
| 25 | 7 | 6 | | | 14 | 6 | 10'-12' | soil | 67% | Same, Saturated, M. Dense | ND |
| | | | 8 | 6 | | | | | | | |
| 30 | 5 | 1 | | | 4 | 7 | 12'-14' | soil | 58% | Same, becomes V. Loose Gravel | ND |
| | | | 3 | 4 | | | | | | | |
| 35 | 3 | 15 | | | 41 | 8 | 14'-16' | soil | 8% | Same, but poor recovery | ND |
| | | | 26 | 49 | | | | | | Gray Silty CLAY at 16' | |
| 40 | | | | | | | | | | Boring terminated at 16.0 feet | ND |
| 45 | | | | | | | | | | Boring backfilled with Bentonite pellets, hydrated. | |
| 50 | | | | | | | | | | All cuttings placed in drums. | ND |
| 55 | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |
| 60 | | | | | | | | | | | ND |
| 65 | | | | | | | | | | | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-19

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/24/02 Finish Date: 07/24/02 Top of Well: N/A Boring No: B-19
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In asphalt parking lot, southeast corner of property.
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 8 feet.
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 8.8 feet
 Remarks: Advanced test borings via HSA. Boring backfilled with grout after completion. No well installed.
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: Partly cloudy, 80 degrees F in afternoon

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | | Field Screening for VOCs, ppm, using PID | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|----------|---|----|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | Type | Recovery | | |
| 0 | 24 | 16 | | | 30 | 1 | 0-2' | soil | 50% | Asphalt Surface 0.5' | ND |
| | | | 14 | 7 | | | | | | Fill, Damp F. GRAVEL & Sand 2'6" | |
| | 3 | 2 | | | 6 | 2 | 2'-4' | soil | 75% | Damp mottled M. Stiff SILT, Some F. Sand | |
| | | | 4 | 4 | | | | | | Same mottled Stiff SILT some F. Sand | |
| 5 | 4 | 5 | | | 9 | 3 | 4'-6' | soil | 67% | V. Moist at 6.0' | ND |
| | | | 4 | 3 | | | | | | Same to 7'10", m. Stiff then WET 7'10" | ND |
| 10 | 4 | 3 | | | 5 | 4 | 6'-8' | soil | 58% | | ND |
| | | | 2 | 2 | | | | | | Wet Gr-Br Dense F-M GRAVEL, Some F-C Sand, Trace Silt | ND |
| | 3 | 22 | | | 42 | 5 | 8'-10' | soil | 50% | Same, M. Dense, saturated | ND |
| 15 | | | 12 | 12 | | | | | | Same, M. Dense, saturated | ND |
| | 4 | 12 | | | 24 | 7 | 12'-14' | soil | 83% | Same, becomes Dense | ND |
| | | | 12 | 12 | | | | | | Becomes grey at 15' | ND |
| | 2 | 19 | | | 42 | 8 | 14'-16' | soil | 92% | Same to 17'6", then Wet Gray | ND |
| 20 | | | 23 | 20 | | | | | | M-C SAND, Trace Silt to 18'6" | ND |
| | 18 | 28 | | | 52 | 9 | 16'-18' | soil | 83% | Damp Gray V. Stiff CLAY and Silt. | ND |
| | | | 24 | 19 | | | | | | Laminated. TILL 20.0' | ND |
| 25 | 24 | 11 | | | 27 | 19 | 18'-20' | soil | 92% | | |
| | | | 16 | 27 | | | | | | | |
| 30 | | | | | | | | | | Boring terminated at 20.0 feet | |
| | | | | | | | | | | Boring backfilled with Bentonite pellets, hydrated. | |
| | | | | | | | | | | All cuttings placed in drums. | |
| | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-20

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/26/02 Finish Date: 07/26/02 Top of Well: N/A Boring No: B-20
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: Asphalt parking lot, northeast corner of property
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 12 feet.
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Not encountered: augers dry.
 Remarks: Advanced test borings via HSA. Boring backfilled with grout after completion. No well installed.
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: Warm, humid in afternoon, 78 degrees F

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | | Field Screening for VOCs, ppm, using PID |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|----------|---|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | Type | Recovery | |
| 0 | 25 | 7 | | | 15 | 1 | 0-2' | soil | 58% | Asphalt Surface 0.5' |
| | | | 8 | 8 | | | | | | Gravel and F- C Sand Fill to 2.0' 2.0' |
| 5 | 6 | 5 | | | 10 | 2 | 2'-4' | soil | 50% | Damp Br. Mottled Stiff SILT, Some F. Sand. Faint partings |
| | | | 5 | 5 | | | | | | Same moist SILT, M. Stiff |
| 10 | 3 | 3 | | | 5 | 3 | 4'-6' | soil | 4% | |
| | | | 2 | 3 | | | | | | 9.5 ppm |
| | 4 | 11 | | | 22 | 4 | 6'-8' | soil | 50% | Same. Stiff, to 7', then Gravel 7.0' |
| | | | 11 | 11 | | | | | | Damp Br. F-M M. Dense GRAVEL, some F-C Silt, Tr. Silt |
| 15 | 8 | 14 | | | 24 | 5 | 8'-10' | soil | 67% | Same, M. Dense |
| | | | 10 | 14 | | | | | | 7.0 ppm |
| | 7 | 12 | | | 21 | 6 | 10'-12' | soil | 58% | Same, M. Dense, becomes V. Moist to wet at 12' |
| 20 | | | 9 | 10 | | | | | | 11.5 ppm |
| | 12 | 16 | | | 32 | 7 | 12'-14' | soil | 67% | Same, Dense, becomes Wet at 12' becomes gray at 13' |
| | | | 16 | 18 | | | | | | 14.7 ppm |
| 25 | 6 | 12 | | | 27 | 8 | 14'-16' | soil | 83% | Same to 15', then Clay 15.0' |
| | | | 15 | 31 | | | | | | Damp Gray Hard CLAY and Silt |
| 30 | | | | | | | | | | Trace Pebbles TILL 16.0' |
| | | | | | | | | | | Boring terminated at 16.0 feet |
| | | | | | | | | | | Boring backfilled with Bentonite pellets, hydrated |
| | | | | | | | | | | All cuttings placed in drums. |
| | | | | | | | | | | Mimirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-21

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/09/02 Finish Date: 07/09/02 Top of Well: N/A Boring No: B-21
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In gravel in front of the west loading dock
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 8 feet.
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 9.9 feet
 Remarks: Advanced test borings via HSA. Boring backfilled with grout after completion. No well installed.
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: Partly cloudy, 65 degrees F in morning warmer in the afternoon

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|--|----------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery |
| 0 | 3 | 3 | | | 4 | 1 | 0-2' | soil | 25% | Gravel surface Damp brown Loose F. Gravel and F-C Sand, Trace Silt. Fill same fill | 1.7 ppm |
| | 2 | 1 | | | 3 | 2 | 2'-4' | soil | 13% | | |
| 5 | | | 1 | 2 | | | | | | same fill | 2.5 ppm |
| | 1 | 2 | | | 6 | 3 | 4'-6' | soil | 54% | | |
| 10 | | | 4 | 10 | | | | | | Same fill to 7'10" 7'10" Wet F-M GRAVEL, Some F-C Sand, Trace Silt | ND |
| | 6 | 5 | | | 10 | 4 | 6'-8' | soil | 42% | | |
| | | | 5 | 7 | | | | | | | |
| | 9 | 19 | | | 47 | 5 | 8'-10' | soil | 63% | | |
| 15 | | | 28 | 18 | | | | | | Same, Saturated Dense F-M GRAVEL, some F-C Sand, Trace Silt | ND |
| | 27 | 14 | | | 42 | 6 | 10'-12' | soil | 83% | | |
| | | | 28 | 29 | | | | | | | |
| 20 | 9 | 8 | | | 17 | 7 | 12'-14' | soil | 67% | Same, becomes M. Dense | ND |
| | | | 9 | 10 | | | | | | | |
| | 28 | 25 | | | 53 | 8 | 14'-16' | soil | 92% | | |
| 25 | | | 28 | 17 | | | | | | Same, becomes V. Dense | ND |
| | 11 | 14 | | | 38 | 9 | 16'-18' | soil | 92% | | |
| | | | 24 | 25 | | | | | | | |
| 30 | | | | | | | | | | Same to 16'6" 16'6" Damp Gray Hard CLAY and Silt. Till | ND |
| | | | | | | | | | | | |
| | | | | | | | | | | Boring terminated at 18.0 feet Boring backfilled with Bentonite pellets, hydrated. All cuttings placed in drums. | |
| | | | | | | | | | | Minirac 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-22

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/09/02 Finish Date: 07/09/02 Top of Well: N/A Boring No: B-22
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: South side of shed, near east property line.
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 3.5 feet.
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx feet 4.5 below grade
 Remarks: Advanced test borings via HSA. Boring backfilled with grout after completion. No well installed.
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: Light rain/humid in the afternoon
80 degrees F.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|---|----------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery |
| 0 | 1 | 2 | | | 5 | 1 | 0-2' | soil | 75% | Grass surface, then Damp Brown M. Stiff SILT, mottled with roots Same M. Stiff SILT, mottled Brown and Gray in color 4' | ND |
| | | | 3 | 4 | | | | | | | |
| | 3 | 3 | | | 6 | 2 | 2'-4' | soil | 67% | | |
| 5 | | | 3 | 2 | | | | | | Wet Brown V. Loose F. SAND, Trace Silt Wet. becomes Loose and Gray 7'6" | ND |
| | 2 | 1 | | | 2 | 3 | 4'-6' | soil | 100% | | |
| 10 | | | 1 | WR | | | | | | Wet Gray M. Dense F-M GRAVEL Some F-C Sand, Tr. Silt Same M. Stiff SILT, mottled Same wet M. Dense M-F GRAVEL Some F-C Sand, Tr. Silt 13.5' | ND |
| | WH | 2 | | | 6 | 4 | 6'-8' | soil | 63% | | |
| | | | 4 | 5 | | | | | | | |
| | 4 | 7 | | | 19 | 5 | 8'-10' | soil | 67% | | |
| 15 | | | 12 | 12 | | | | | | Damp Gray V. Stiff CLAY and Silt, Little Gravel, laminated TILL 14' | ND |
| | 7 | 7 | | | 15 | 6 | 10'-12' | soil | 33% | | |
| | | | 8 | 9 | | | | | | | |
| 20 | | | | | | | | | | Damp Gray V. Stiff CLAY and Silt, Little Gravel, laminated TILL 14' | ND |
| | 7 | 9 | | | | 7 | 12'-14' | soil | 100% | | |
| 25 | | | 9 | 13 | 18 | | | | | Boring terminated at 14.0 feet Boring backfilled with Bentonite pellets, hydrated. All cuttings placed in drums. | ND |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 30 | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-23

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/25/02 Finish Date: 07/25/02 Top of Well: N/A Boring No: B-23
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: Asphalt parking lot, south property line, by garden
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 9'10" feet.
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 9.0 feet
 Remarks: Advanced test borings via HSA. Boring backfilled with grout after completion. No well installed.
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: Partly cloudy, 80 degrees F in afternoon

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | | Field Screening for VOCs, ppm, using PID |
|-------|------------------|--------|-------------|---------|--------|-----|---------|---------------------------|----------|---|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | Type | Recovery | |
| 0 | 38 | 14 | | | 28 | 1 | 0-2' | soil | 67% | Asphalt Surface 0.5' |
| | | | 14 | 7 | | | | | | Gravel and F-C Sand. Fill |
| 5 | 3 | 3 | | | 5 | 2 | 2'-4' | soil | 0% | No sample recovery: Fill to ~3' 3.0' |
| | | | 2 | 3 | | | | | | Becomes V. Moist at 4.0' |
| 10 | 3 | 3 | | | 6 | 3 | 4'-6' | soil | 67% | Damp mottled M. Stiff SILT, Some F-C Sand, Trace Silt |
| | | | 3 | 3 | | | | | | Same, V. Soft, V. Moist |
| 15 | WH | WH | | | 1 | 4 | 6'-8' | soil | 25% | Gravel at 8' 8.0' |
| | | | WH | WH | | | | | | V. Moist Br-Gr V. Loose F-M GRAVEL. |
| 20 | WH | 1 | | | 3 | 5 | 8'-10' | soil | 33% | Some F-C Sand, Tr. Silt. Wet 9'10" |
| | | | 2 | 9 | | | | | | Same, saturated, M. Dense |
| 25 | 5 | 9 | | | 21 | 6 | 10'-12' | soil | 50% | Same, saturated, M. Dense |
| | | | 12 | 14 | | | | | | Same, saturated, M. Dense |
| 30 | 14 | 15 | | | 27 | 7 | 12'-14' | soil | 67% | Same, saturated, M. Dense |
| | | | 12 | 9 | | | | | | Same, saturated, M. Dense, gray |
| 35 | 7 | 17 | | | 29 | 8 | 14'-16' | soil | 83% | Same, saturated, M. Dense, gray |
| | | | 12 | 14 | | | | | | 15'10' |
| 40 | 17 | 25 | | | 25 | 9 | 16'-17' | soil | 100% | Damp Gray Hard CLAY and Silt |
| | | | not sampled | | | | | | | Trace Pebbles, Laminated TILL 18' |
| 45 | | | | | | | | | | Boring terminated at 18.0 feet |
| | | | | | | | | | | Boring backfilled with Bentonite pellets, hydrated |
| 50 | | | | | | | | | | All cuttings placed in drums. |
| | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-24

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/31/02 Finish Date: 07/31/02 Top of Well: N/A Boring No: B-24
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: Grass strip north of building, between MW-7 & MW-6
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 12 feet.
 Drilling Method: 4-1/4 inch Hollow Stem Augers, CME-55 rig Water Level (Post Drilling): Approx. 11.0 feet
 Remarks: Advanced test borings via HSA. Boring backfilled with grout after completion. No well installed.
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: Warm, humid in afternoon, 80 degrees F

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|--------|---------|---------|--------|-------|---------|---------------------------|--|---|----------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery |
| 0 | 1 | 4 | | | 11 | 1 | 0-2' | soil | 58% | Grass surface | 0.4 ppm |
| | | | 7 | 5 | | | | | | Gravel and Sand Fill to 4.0' | |
| | 3 | 14 | | | 20 | 2 | 2'-4' | soil | 58% | Re-worked native SILT and F-M Sand | |
| 5 | | | 6 | 4 | | | | | | Begin native soil at 4.0' | 0.3 ppm |
| | 2 | 3 | | | 7 | 3 | 4'-6' | soil | 33% | Damp Br. Mottled M. Stiff SILT. | ND |
| | | | 4 | 5 | | | | | | some F-C Sand Roots encountered | |
| 4 | 6 | | | 11 | 4 | 6'-8' | soil | 58% | Same Silt, becomes Stiff | | |
| 10 | | | 5 | 6 | | | | | | | ND |
| | 3 | 5 | | | 12 | 5 | 8'-10' | soil | 100% | Same Stiff Silt, some F-C Sand | |
| | | | 7 | 8 | | | | | | Same to 9'8", then Gravel | |
| 15 | 5 | 7 | | | 12 | 6 | 10'-12' | soil | 58% | Damp Br. F-M M. Dense GRAVEL, | 4.3 ppm |
| | | | 5 | 7 | | | | | | some F-C Sand, Tr Silt | |
| | 5 | 5 | | | 12 | 7 | 12'-14' | soil | 38% | Same, becomes saturated at 12' WT-12' | |
| 20 | 10 | 12 | | | 38 | 8 | 14'-16' | soil | 75% | Becomes Dense, Same to 14'6". | 10.6 ppm |
| | | | 26 | 40 | | | | | | Gray Gravel. Saturated | |
| | 35 | 33 | | | 73 | 9 | 16'-18' | soil | 100% | All same Gray wet gravel. V. Dense | |
| 25 | | | 40 | 50 | | | | | | | 18.4 ppm |
| | 10 | 49 | | | 99 | 10 | 18'-20' | soil | 31% | Same to 22.25', then gray clay | |
| | | | 50/4" | | | | | | | | |
| 30 | 26 | 31 | | | 68 | 11 | 20'-22' | soil | 100% | | 22.25' |
| | | | 37 | 49 | | | | | | Moist Gray Hard CLAY, some Silt. TILL | 5.3 ppm |
| | | | | | | | | | | | 22.50' |
| | | | | | | | | | | Boring terminated at 22.5 feet | |
| | | | | | | | | | | pellets, hydrated | |
| | | | | | | | | | | All cuttings placed in drums. | |
| | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |

N=No. of Blows to Drive 2" Spoon 12" with 140 lb wt. Hammer 30" Each Blow

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-25

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/23/02 Finish Date: 07/23/02 Top of Well: N/A Boring No: B-25
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In the building, at hallway intersection by Room 26
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 9 feet
 Drilling Method: Portable Tripod, Bosch Electric Hammer, Water Level (Post Drilling): Not determined using Marco Core.
 Remarks: 4 foot Macro Core Sampling Barrel used to collect continuous soil samples. Boring backfilled upon completion
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: not determined using Marco Core.
 Work was inside the building.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|---|------------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery |
| 0 | | | | | ND | 1 | 0-4' | soil | 100% | Concrete floor to 0.5 feet | ND |
| | | | | | ND | | | | | F-C SAND and F. Gravel Fill to 2.0' | |
| 5 | | | | | ND | 2 | 4'-8' | soil | 100% | Damp mottled Br.-Gray SILT, little F. Sand | ND |
| | | | | | ND | | | | | Same Damp mottled SILT, little F. Sand | ND |
| | | | | | ND | | | | | Same | ND |
| 10 | | | | | ND | 3 | 8'-12' | soil | 100% | Same at 8.0' | ND at 9.0' |
| | | | | | ND | | | | | Same, becomes saturated at 9.0' | ND at 9.0' |
| | | | | | ND | | | | | Change to Wet Brown F-M GRAVEL, some F-C Sand, Trace Silt | ND |
| 15 | | | | | ND | 4 | 12'-16' | soil | 100% | Same, Saturated, becomes Gray | ND |
| | | | | | | | | | | Same Gravel and sand, trace Silt | ND |
| 20 | | | | | | | | | | Refusal at 16.0 feet | ND |
| | | | | | | | | | | Boring terminated at 16.0 feet | |
| | | | | | | | | | | Boring backfilled with Bentonite pellets, hydrated. | |
| | | | | | | | | | | All cuttings placed in drums. | |
| 25 | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |
| 30 | | | | | | | | | | | |

No blow counts recorded Soil samples collected using the 4 foot long Macro Core ® barrel and acetate liner.

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-26

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/23/02 Finish Date: 07/23/02 Top of Well: N/A Boring No: B-26
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In the building, in hallway south of cafeteria Room 124
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 11 feet
 Drilling Method: Portable Tripod, Bosch Electric Hammer, Water Level (Post Drilling): Not determined using Macro Core.
 Remarks: 4 foot Macro Core Sampling Barrel used to collect continuous soil samples. Boring backfilled upon completion
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: not determined using Macro Core.
Work was inside the building.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|--|--|----------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | Type | Recovery |
| 0 | | | | | ND | 1 | 0-4' | soil | 100% | Concrete floor to 0.5 feet | 15.5 ppm |
| | | | | | ND | | | | | F-C SAND and F. Gravel Fill Fill to 3.0' | |
| 5 | | | | | ND | 2 | 4'-8' | soil | 100% | Damp mottled Orange Br. SILT, little F. Sand. Partings observed | 3.7 ppm |
| | | | | | ND | | | | | Same mottled SILT with F. Sand Same, moist at 7' | 8.1 ppm |
| 10 | | | | | ND | 3 | 8'-12' | soil | 100% | Same | 5.3 ppm |
| | | | | | ND | | | | | Same to 10.0' | 10.0' |
| 15 | | | | | ND | 4 | 12'-16' | soil | 100% | Dark Br. F - M GRAVEL, some Silt Becomes Wet at 11' | 3.9 ppm |
| | | | | | ND | | | | | F-M GRAVEL, Some F-C Sand, Tr Si. Saturated 12' to 16' | 2.0 ppm |
| 20 | | | | | | | | | | Gray F-M SAND, little Silt | 2.0 ppm |
| | | | | | | | | | | Refusal at 16.0 feet Boring terminated at 16.0 feet Boring backfilled with Bentonite pellets, hydrated. All cuttings placed in drums. | |
| 25 | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |
| | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| | | | | | | | | | | | |

No blow counts recorded Soil samples collected using the 4 foot long Macro Core ® barrel and acetate liner.

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-27

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/26/02 Finish Date: 07/26/02 Top of Well: N/A Boring No: B-27
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: In the building, machine shop room 33, by hallway
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 12 feet
 Drilling Method: Portable Tripod, Bosch Electric Hammer, Water Level (Post Drilling): Not determined using Macro Core.
 Remarks: 4 foot Macro Core Sampling Barrel used to collect continuous soil samples. Boring backfilled upon completion
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: Light rain, 68 degrees F in morning.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | Field Screening for VOCs, ppm, using PID | | |
|-------|------------------|---------|----------|----------|--------|-----|---------|---------------------------|--|---|----------|
| | 0'/'6" | 6'/'12" | 12'/'18" | 18'/'24" | N | NO. | Depth | | | Type | Recovery |
| 0 | | | | | ND | 1 | 0-4' | soil | 100% | Concrete floor to 0.5 feet. Fill to 8" | 2.0 ppm |
| | | | | | ND | | | | | F-C SAND and F. Gravel Fill to 0' 8" | |
| 5 | | | | | ND | 2 | 4'-8' | soil | 100% | Damp mottled Br.-Gray SILT, little F. Sand. Root/tree fragment | 0.8 ppm |
| | | | | | ND | | | | | Same Damp Brown SILT, little F. Sand | |
| 10 | | | | | ND | 3 | 8'-10' | soil | 100% | Same, mottled brown & gray | 0.6 ppm |
| | | | | | ND | | | | | becomes v. moist at 8' (short length sample) | |
| 15 | | | | | ND | 4 | 10'-14' | soil | 100% | Same. V. Moist at 10' | 1.0 ppm |
| | | | | | ND | 5 | 14-18' | soil | 100% | Same to 12.0', then wet Gravel | |
| 20 | | | | | | | | | | Wet Br. F-M GRAVEL, some | 3.4 ppm |
| | | | | | | | | | | F-C Sand. Tr. Silt same, saturated gravel | |
| 25 | | | | | | | | | | same, saturated gravel | 17.0' |
| | | | | | | | | | | Macro Core refusal at 17' | |
| 30 | | | | | | | | | | Boring terminated at 17.0 feet | 3.0 ppm |
| | | | | | | | | | | Boring backfilled with Bentonite pellets, hydrated. All cuttings placed in drums. | |

No blow counts recorded Soil samples collected using the 4 foot long Macro Core ® barrel and acetate liner.

DRILLING LOG



B E R G M A N N
associates

BORING/WELL NUMBER: Test Boring B-28

PROJECT: Gowanda Day Habilitation Center Project No: 5596.03 Page No. 1 of 1
 Start Date: 07/23/02 Finish Date: 07/23/02 Top of Well: N/A Boring No: B-28
 Driller: Steven Laramie, Geologic NY/NorthStar Boring Location: Inside building, north hallway, northeast corner.
 Inspector: Edward Jones, Bergmann Associates Water Level (During Drilling): Approximately 11 feet
 Drilling Method: Portable Tripod, Bosch Electric Hammer, Water Level (Post Drilling): Not determined using Macro Core.
 Remarks: 4 foot Macro Core Sampling Barrel used to collect continuous soil samples. Boring backfilled upon completion
 Screened Interval: None: Test boring only. No monitoring well installed. All soil cuttings placed in 55 gallon drums.
 Seal: Backfilled boring with bentonite grout Weather Conditions: not determined using Macro Core.
Work was inside the building.

| DEPTH | BLOWS ON SAMPLER | | | | SAMPLE | | | SOIL AND ROCK INFORMATION | | Field Screening for VOCs, ppm, using PID | |
|-------|------------------|--------|---------|---------|--------|-----|---------|---------------------------|------|--|----------|
| | 0"/6" | 6"/12" | 12"/18" | 18"/24" | N | NO. | Depth | | | | Type |
| 0 | | | | | ND | 1 | 0-4' | soil | 90% | Concrete floor to 0.5 feet | 15 ppm |
| | | | | | ND | | | | | Damp Brown F-C SAND and F. Gravel Fill to 3.0' 3.0' | |
| 5 | | | | | ND | 2 | 4'-8' | soil | 100% | Damp Br. mottled SILT, some F. Sand | 16.5 ppm |
| | | | | | ND | | | | | Same mottled SILT with F. Sand | 15.4 ppm |
| 10 | | | | | ND | 3 | 8'-12' | soil | 100% | Same to 9.0' 9.0' | 15.4 ppm |
| | | | | | ND | | | | | Dark Br. F - M GRAVEL, some Silt | 15.3 ppm |
| 15 | | | | | ND | 4 | 12'-14' | soil | 100% | Becomes Wet at 11' 13.0' | 3.4 ppm |
| | | | | | ND | | | | | Damp Gray CLAY and Silt, trace Gravel. TILL 13.5' | |
| 20 | | | | | | | | | | Refusal at 13.5 feet | |
| | | | | | | | | | | Boring terminated at 13.5 feet Boring backfilled with Bentonite pellets, hydrated. All cuttings placed in drums. | |
| 25 | | | | | | | | | | Minirae 2000 PID with 10.6 ev lamp used to screen soil samples for VOCs | |
| | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| | | | | | | | | | | | |

No blow counts recorded Soil samples collected using the 4 foot long Macro Core © barrel and acetate liner.

APPENDIX 2
Monitoring Well Depth Gauging and Development Forms

SUMMARY OF GROUNDWATER ELEVATIONS AND FIELD MEASUREMENTS, AUGUST 28, 2002

Gowanda Day Habilitation Center
 4 Industrial Place, Gowanda, New York
 VCA # V-00463-9

| Sampling Date: Wednesday, August 28, 2002 | | | | | | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|
| | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 |
| Casing Elevation* | 778.23 | 778.08 | 778.38 | 778.43 | 778.61 | 781.10 | 780.94 | 781.33 | 782.61 | 780.02 |
| Depth to Groundwater (btoc) | 6.24 | 5.96 | 6.42 | 7.95 | 10.79 | 13.33 | 13.23 | 9.36 | 9.25 | 7.09 |
| Groundwater Elevation | 771.99 | 772.12 | 771.96 | 770.48 | 767.82 | 767.77 | 767.71 | 771.97 | 773.36 | 772.93 |
| Well Diameter | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" |
| Product Thickness | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Well Depth (btoc) | 16.02 | 17.15 | 16.30 | 15.78 | 13.95 | 22.88 | 21.80 | 17.65 | 20.96 | 19.42 |
| Bottom of Well Elevation | 762.21 | 760.93 | 762.08 | 762.65 | 764.66 | 758.22 | 759.14 | 763.68 | 761.65 | 760.60 |
| Thickness of Water Column | 9.78 | 11.19 | 9.88 | 7.83 | 3.16 | 9.55 | 8.57 | 8.29 | 11.71 | 12.33 |
| Minimum Purge Volume (gal) | 1.59 | 1.82 | 1.61 | 1.28 | 0.52 | 1.56 | 1.40 | 1.35 | 1.91 | 2.01 |
| 3 Volumes | 4.78 | 5.47 | 4.83 | 3.83 | 1.55 | 4.67 | 4.19 | 4.05 | 5.73 | 6.03 |
| Actual volume purged | 5.50 | 5.50 | 5.25 | 4.00 | 2.00 | 5.50 | 4.50 | 4.50 | 6.00 | 6.50 |
| Comments | Flush = -0.29' | Flush = -0.30' | Flush = -0.23' | Flush = -0.34' | Flush = -0.24' | Stickup=2.17' | stickup=2.17' | stickup=2.84' | stickup=2.05' | stickup=2.56' |

| Sampling Date: Wednesday, August 28, 2002 | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| | MW-11 | MW-12 | MW-13 | MW-14 | MW-15 |
| Casing Elevation | 778.58 | 778.50 | 778.39 | 778.43 | 778.38 |
| Depth to Groundwater (btoc) | 6.61 | 7.23 | 7.28 | 10.04 | 10.51 |
| Groundwater Elevation | 771.97 | 771.27 | 771.11 | 768.39 | 767.87 |
| Well Diameter | 2" | 2" | 2" | 2" | 2" |
| Product Thickness | nd | nd | nd | nd | nd |
| Well Depth (btoc) | 15.48 | 17.38 | 17.40 | 18.15 | 19.80 |
| Bottom of Well Elevation | 763.10 | 761.12 | 760.99 | 760.28 | 758.58 |
| Thickness of Water Column | 8.87 | 10.15 | 10.12 | 8.11 | 9.29 |
| Minimum Purge Volume (gal) | 1.45 | 1.65 | 1.65 | 1.32 | 1.51 |
| 3 Volumes | 4.34 | 4.96 | 4.95 | 3.97 | 4.54 |
| Actual volume purged | 4.75 | 5.25 | 5.50 | 4.25 | 5.50 |
| Comments | Flush = -0.23' | Flush = -0.35' | Flush = -0.48' | Flush = -0.39' | Flush = -0.38' |

TOTAL VOLUME TO PURGE, 3X ALL WELLS:
 Gallons 67.89

NOTES

btoc = Below top of casing (inner riser) All measurements are in feet, referenced to Mean Sea Level
 nd = No floating product encountered
 Minimum purge volume = 3 X well volume, 0.163 gallon per foot in a 2" diameter well.

SUMMARY OF GROUNDWATER ELEVATIONS AND FIELD MEASUREMENTS, OCTOBER 17, 2002

Slug Test Measurements
 Gowanda Day Habilitation Center
 4 Industrial Place, Gowanda, New York
 VCA # V-00463-9

| Monitoring Date: 10/17/02 | | | | | | | | | | |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|
| | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 |
| Casing Elevation* | 778.23 | 778.08 | 778.38 | 778.43 | 778.61 | 781.10 | 780.94 | 781.33 | 782.61 | 780.02 |
| Depth to Groundwater (btoc) | 5.99 | 5.75 | 6.23 | 8.06 | 10.97 | 13.44 | 13.33 | 9.10 | 9.08 | 6.70 |
| Groundwater Elevation | 772.24 | 772.33 | 772.15 | 770.37 | 767.64 | 767.66 | 767.61 | 772.23 | 773.53 | 773.32 |
| Well Diameter | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" |
| Product Thickness | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Well Depth (btoc) | 16.02 | 17.15 | 16.30 | 15.78 | 13.95 | 22.88 | 21.80 | 17.65 | 20.96 | 19.42 |
| Bottom of Well Elevation | 762.21 | 760.93 | 762.08 | 762.65 | 764.66 | 758.22 | 759.14 | 763.68 | 761.65 | 760.60 |
| Thickness of Water Column | 10.03 | 11.40 | 10.07 | 7.72 | 2.98 | 9.44 | 8.47 | 8.55 | 11.88 | 12.72 |
| Minimum Purge Volume (gal) | 1.63 | 1.86 | 1.64 | 1.26 | 0.49 | 1.54 | 1.38 | 1.39 | 1.94 | 2.07 |
| 3 Volumes | 4.90 | 5.57 | 4.92 | 3.78 | 1.46 | 4.62 | 4.14 | 4.18 | 5.81 | 6.22 |
| Actual volume purged | 5.50 | 5.50 | 5.25 | 4.00 | 2.00 | 5.50 | 4.50 | 4.50 | 6.00 | 6.50 |
| Comments | Flush = -0.29' | Flush = -0.30' | Flush = -0.23' | Flush = -0.34' | Flush = -0.24' | Stickup=2.17' | stickup=2.17' | stickup=2.94' | stickup=2.05' | stickup=2.56' |

| Monitoring Date: 10/17/02 | | | | | |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|
| | MW-11 | MW-12 | MW-13 | MW-14 | MW-15 |
| Casing Elevation | 778.58 | 778.50 | 778.39 | 778.43 | 778.38 |
| Depth to Groundwater (btoc) | 6.42 | 7.00 | 7.07 | 9.93 | 10.60 |
| Groundwater Elevation | 772.16 | 771.50 | 771.32 | 768.50 | 767.78 |
| Well Diameter | 2" | 2" | 2" | 2" | 2" |
| Product Thickness | nd | nd | nd | nd | nd |
| Well Depth (btoc) | 15.48 | 17.38 | 17.40 | 18.15 | 19.80 |
| Bottom of Well Elevation | 763.10 | 761.12 | 760.99 | 760.28 | 758.58 |
| Thickness of Water Column | 9.06 | 10.38 | 10.33 | 8.22 | 9.20 |
| Minimum Purge Volume (gal) | 1.48 | 1.69 | 1.68 | 1.34 | 1.50 |
| 3 Volumes | 4.43 | 5.08 | 5.05 | 4.02 | 4.50 |
| Actual volume purged | 4.75 | 5.25 | 5.50 | 4.25 | 5.50 |
| Comments | Flush = -0.23' | Flush = -0.35' | Flush = -0.48' | Flush = -0.39' | Flush = -0.38' |

ave. depth to gw: 8.64 ft.
 Ave. GW elev: 770.69 ft.

TOTAL VOLUME TO PURGE, 3X ALL WELLS:
 Gallons 68.68

NOTES

btoc = Below top of casing (inner riser) All measurements are in feet, referenced to Mean Sea Level
 nd = No floating product encountered
 Minimum purge volume = 3 X well volume, 0.163 gallon per foot in a 2" diameter well.

SUMMARY OF GROUNDWATER ELEVATIONS AND FIELD MEASUREMENTS, DECEMBER 10, 2002

Gowanda Day Habilitation Center
 4 Industrial Place, Gowanda, New York
 VCA # V-00463-9

| Monitoring Date: Tuesday, December 10, 2002 | | | | | | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|
| | MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | MW-10 |
| Casing Elevation* | 778.23 | 778.08 | 778.38 | 778.43 | 778.61 | 781.10 | 780.94 | 781.33 | 782.61 | 780.02 |
| Depth to Groundwater (btoc) | 5.49 | 5.28 | 5.72 | 7.07 | 10.69 | 13.18 | 13.12 | 8.60 | 8.30 | 6.21 |
| Groundwater Elevation | 772.74 | 772.80 | 772.66 | 771.36 | 767.92 | 767.92 | 767.82 | 772.73 | 774.31 | 773.81 |
| Well Diameter | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 2" |
| Product Thickness | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| Well Depth (btoc) | 16.02 | 17.15 | 16.30 | 15.78 | 13.95 | 22.88 | 21.80 | 17.65 | 20.96 | 19.42 |
| Bottom of Well Elevation | 762.21 | 760.93 | 762.08 | 762.65 | 764.66 | 758.22 | 759.14 | 763.68 | 761.65 | 760.60 |
| Thickness of Water Column | 10.53 | 11.87 | 10.58 | 8.71 | 3.26 | 9.70 | 8.68 | 9.05 | 12.66 | 13.21 |
| Minimum Purge Volume (gal) | 1.72 | 1.93 | 1.72 | 1.42 | 0.53 | 1.58 | 1.41 | 1.48 | 2.06 | 2.15 |
| 3 Volumes | 5.15 | 5.80 | 5.17 | 4.26 | 1.59 | 4.74 | 4.24 | 4.43 | 6.19 | 6.46 |
| Actual volume purged | ns | ns | ns | ns | ns | ns | ns | ns | ns | ns |
| Comments | Flush = -0.29' | Flush = -0.30' | Flush = -0.23' | Flush = -0.34' | Flush = -0.24' | Stickup=2.17' | stickup=2.17' | stickup=2.84' | stickup=2.05' | stickup=2.56' |

| Monitoring Date: Tuesday, December 10, 2002 | | | | | |
|---|----------------|----------------|----------------|----------------|----------------|
| | MW-11 | MW-12 | MW-13 | MW-14 | MW-15 |
| Casing Elevation | 778.58 | 778.50 | 778.39 | 778.43 | 778.38 |
| Depth to Groundwater (btoc) | 5.90 | 6.56 | 6.73 | 9.54 | 10.37 |
| Groundwater Elevation | 772.68 | 771.94 | 771.66 | 768.89 | 768.01 |
| Well Diameter | 2" | 2" | 2" | 2" | 2" |
| Product Thickness | nd | nd | nd | nd | nd |
| Well Depth (btoc) | 15.48 | 17.38 | 17.40 | 18.15 | 19.80 |
| Bottom of Well Elevation | 763.10 | 761.12 | 760.99 | 760.28 | 758.58 |
| Thickness of Water Column | 9.58 | 10.82 | 10.67 | 8.61 | 9.43 |
| Minimum Purge Volume (gal) | 1.56 | 1.76 | 1.74 | 1.40 | 1.54 |
| 3 Volumes | 4.68 | 5.29 | 5.22 | 4.21 | 4.61 |
| Actual volume purged | ns | ns | ns | ns | ns |
| Comments | Flush = -0.23' | Flush = -0.35' | Flush = -0.48' | Flush = -0.39' | Flush = -0.38' |

Bailer*

NOTES

btoc = Below top of casing (inner riser) All measurements are in feet, referenced to Mean Sea Level
 nd = No floating product encountered ns = not sampled
 Minimum purge volume = 3 X well volume, 0.163 gallon per foot in a 2" diameter well.

TOTAL VOLUME TO PURGE, 3X ALL WELLS:
 Gallons 72.06
 Note: No purging required, depth gauging only

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation Center
Project Number: 5596.03
Site Location: Gowanda, NY
Sample Date: 09/04/02
Weather: Partly cloudy, Sunny, ~75°F
Personnel: Edward Jones



BERGMANN
associates

GROUNDWATER SAMPLE POINT

Well Number: MW-1 - Resample
Location: South side of Building
Casing Diameter: 2"

Depth to water, below top of casing: 6' - 7³/₄" = 6.64'
Depth to bottom of the well: 15' 4" = 15.33' 16.02
Length of water column in well: 9.38'

| Well Dia. | Volume/Foot |
|-----------|----------------|
| 1" | 0.041 gal/foot |
| 2" | 0.163 gal/foot |
| 4" | 0.653 gal/foot |
| 6" | 1.469 gal/foot |
| 8" | 2.611 gal/foot |

Volume of water in well casing, gallons: 1.53 gallons
3 Well volumes (= length water column X gal/foot X 3): 4.59 gallons
Actual volume purged prior to sampling: 7.0 gallons
Sampling Methodology: Dedicated Teflon bailer
Sampling Equipment: Variable speed peristaltic pump used to purge well at low flow rate

Well Recharged? YES
Required Analysis: All: VOCs, SVOCs, metals, PCB, pest / Herb & pesticide

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 0 | .5 | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 7 |
| Turbidity | >999 | >999 | >999 | 307 | >999 | >999 | 384 | 537 | 129 | 37 |
| Temperature | 19.1 | 18.3 | 17.6 | 17.4 | 17.1 | 17.4 | 18.0 | 18.6 | 19.0 | 18.6 |
| pH | 7.03 | 7.24 | 7.35 | 7.42 | 7.44 | 7.45 | 7.49 | 7.50 | 7.53 | 7.5 |
| Conductivity | 0.684 | 0.652 | 0.630 | 0.557 | 0.613 | 0.607 | 0.606 | 0.600 | 0.604 | 0.5 |
| DO | 9.08 | 9.32 | 9.69 | 9.79 | 9.94 | 10.10 | 11.41 | 12.21 | 12.51 | 12.51 |
| Sal | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |

Time sample was collected: 11⁰⁰ AM

COMMENTS: Collected Base sample, Duplicate sample
MS sample & MSD sample

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation Center
Project Number: 5596003
Site Location: Gowanda, NY
Sample Date: 08/29/02
Weather: Humid, Light Rain, 75°F
Personnel: Ed Jones & Jim Marschner



B E R G M A N N
associates

GROUNDWATER SAMPLE POINT

Well Number: MW-1
Location: South side of Building
Casing Diameter: 2.0"

Depth to water, below top of casing: 6.24
Depth to bottom of the well: 16.02
Length of water column in well: 9.78

| Well Dia. | Volume/Foot |
|-----------|------------------|
| 1" | = 0.041 gal/foot |
| 2" | = 0.163 gal/foot |
| 4" | = 0.653 gal/foot |
| 6" | = 1.469 gal/foot |
| 8" | = 2.611 gal/foot |

Volume of water in well casing, gallons: 1.59
3 Well volumes (= length water column X gal/foot X 3): 4.78
Actual volume purged prior to sampling: 5.50
Sampling Methodology: Dedicated Bailor
Sampling Equipment: peristaltic pump to Develop well

Well Recharged? Yes
Required Analysis: Full Analysis, Duplicate, ASP, MS, MSD

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | 0 | .5 | 1.0 | 1.5 | 2.0 | 3.0 | 4.0 | 5.50 |
| Turbidity | 68 | 41 | 765 | 580 | 363 | 142 | 59 | 37 |
| Temperature | 21.8 | 21.1 | 20.7 | 20.6 | 20.3 | 21.0 | 20.6 | 20.8 |
| pH | 8.66 | 8.65 | 8.66 | 8.64 | 8.64 | 8.65 | 8.65 | 8.65 |
| Conductivity | 0.569 | 0.566 | 0.548 | 0.541 | 0.533 | 0.528 | 0.521 | 0.517 |
| DO | 10.02 | 10.10 | 10.24 | 10.89 | 10.93 | 11.18 | 11.13 | 10.92 |
| Sal | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |

Time sample was collected: 5:20 PM

COMMENTS Depth to water measured on 08/28/02

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation
Project Number: 5596-03
Site Location: Village Gowanda, NY
Sample Date: 08/28/02 Thurs
Weather: Humid, 75°F, Showers
Personnel: Ed Jones & Jim Marschner



GROUNDWATER SAMPLE POINT

Well Number: MW-2
Location: Asphalt, South of Building
Casing Diameter: 2.0 in

Depth to water, below top of casing: 5.96
Depth to bottom of the well: 17.15
Length of water column in well: 11.19

| Well Dia. | Volume/Foot |
|-----------|------------------|
| 1" | = 0.041 gal/foot |
| 2" | = 0.163 gal/foot |
| 4" | = 0.653 gal/foot |
| 6" | = 1.469 gal/foot |
| 8" | = 2.611 gal/foot |

Volume of water in well casing, gallons: 1.82
3 Well volumes (= length water column X gal/foot X 3): 5.47
Actual volume purged prior to sampling: 5.5 gallons
Sampling Methodology: Disposable Dedicated Bailor
Sampling Equipment: Variable speed peristaltic pump
used to develop & purge well
Well Recharged? YES - pump rate = recharge
Required Analysis: VOCs - TCL

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-----------|
| | Initial | 5 | 10 | 15 | 20 | 25 | 40 | 50 | 5.5 Final |
| Turbidity | 208 | 999 | 412 | 603 | 131 | 85 | 66 | 40 | 61 |
| Temperature | 16.2° | 15.2 | 15.7 | 15.1 | 15.3 | 15.8 | 16.1 | 16.2 | 15.3 |
| pH | 8.55 | 8.52 | 8.25 | 8.32 | 8.29 | 8.43 | 8.40 | 8.51 | 8.49 |
| Conductivity | 1.09 | 1.05 | 1.672 | 1.589 | 1.539 | 1.552 | 1.533 | 1.528 | 1.518 |
| DO | 11.59 | 12.05 | 11.79 | 12.02 | 12.04 | 12.00 | 11.80 | 11.82 | 11.87 |
| SAL | 0.04 | 0.04 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |

Time sample was collected: 16:30

COMMENTS Sample collected immediately after
purging.

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation Center
 Project Number: 5596-03
 Site Location: Gowanda, NY
 Sample Date: weds 08/28/02
 Weather: Humid 75of
 Personnel: Ed Jones & Jim Marschner



B E R G M A N N
associates

GROUNDWATER SAMPLE POINT

Well Number: MW-3
 Location: Asphalt, South side of Building
 Casing Diameter: 2.00

Depth to water, below top of casing: 6.42
 Depth to bottom of the well: 16.30
 Length of water column in well: 9.88

| Well Dia. | Volume/Foot |
|-----------|------------------|
| 1" | = 0.041 gal/foot |
| 2" | = 0.163 gal/foot |
| 4" | = 0.653 gal/foot |
| 6" | = 1.469 gal/foot |
| 8" | = 2.611 gal/foot |

Volume of water in well casing, gallons: 1.61
 3 Well volumes (= length water column X gal/foot X 3): 4.83
 Actual volume purged prior to sampling: 5.0 gallons
 Sampling Methodology: Dedicated Bailor
 Sampling Equipment: Variable speed peristaltic pump

Well Recharged? YES
 Required Analysis: VOCs - TCL

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | SAMPLE |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|--------|
| | 0 | 0.5 | 1.5 | 2.0 | 3.0 | 4.0 | 5.0 | |
| Turbidity | 799 | 619 | 130 | 488 | 575 | 342 | 137 | 123 |
| Temperature | 21.50 | 20.6 | 20.9 | 21.40 | 21.80 | 20.6 | 21.6 | 25.0 |
| pH | 8.71 | 8.56 | 8.56 | 8.56 | 8.61 | 8.44 | 8.57 | 8.43 |
| Conductivity | 0.715 | 0.564 | 0.554 | 0.584 | 0.409 | 0.552 | 0.515 | 0.627 |
| DO | 10.50 | 10.33 | 10.36 | 10.11 | 9.85 | 10.32 | 10.09 | 8.45 |
| Sw | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |

Time sample was collected: 1430

COMMENTS

pump rate = ~~5~~ recharge rate
sample collected ~1 hour after well development

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation center
Project Number: 5596-03
Site Location: Gowanda, NY
Sample Date: weds 08/28/02
Weather: Humid, 75°f
Personnel: Ed Jones & Jim Marschner



B E R G M A N N
associates

GROUNDWATER SAMPLE POINT

Well Number: MW-4
Location: Parking Lot, East side of Building
Casing Diameter: 2.0 in

Depth to water, below top of casing: 7.95
Depth to bottom of the well: 15.76
Length of water column in well: 7.83

| Well Dia. | Volume/Foot |
|-----------|----------------|
| 1" | 0.041 gal/foot |
| 2" | 0.163 gal/foot |
| 4" | 0.653 gal/foot |
| 6" | 1.469 gal/foot |
| 8" | 2.611 gal/foot |

Volume of water in well casing, gallons: 1.30
3 Well volumes (= length water column X gal/foot X 3): 3.92
Actual volume purged prior to sampling: 4.0 gallons
Sampling Methodology: Dedicated bailed
Sampling Equipment: variable speed peristaltic pump

Well Recharged? yes
Required Analysis: VOCs - TCL

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|--|
| | 0 | 0.5 | 1 | 2.0 | 3.0 | 4.0 | |
| Turbidity | 7999 | 266 | 192 | 39 | 61 | 20 | |
| Temperature | 20.5 | 20.8 | 20.9 | 21.0 | 21.7 | 21.7 | |
| pH | 9.01 | 8.88 | 8.88 | 8.79 | 8.66 | 8.68 | |
| Conductivity | 0.614 | 0.620 | 0.624 | 0.626 | 0.616 | 0.612 | |
| DO | 9.21 | 9.28 | 9.31 | 9.67 | 10.20 | 10.22 | |
| Sal | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | |

Time sample was collected: 12:55

COMMENTS

~~At 12:55~~
 pump rate = recharge rate. sample collected immediately after well development.

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation center
 Project Number: 5596-03
 Site Location: Gowanda, NY
 Sample Date: Wed 08/28/02
 Weather: Humid 75°F
 Personnel: Ed Jones & Jim Marschner



B E R G M A N N
associates

GROUNDWATER SAMPLE POINT

Well Number: MW-5
 Location: North east corner of property line
 Casing Diameter: 2.0 in

Depth to water, below top of casing: 10.71
 Depth to bottom of the well: 13.95
 Length of water column in well: 3.16

| Well Dia. | Volume/Foot |
|-----------|----------------|
| 1" | 0.041 gal/foot |
| 2" | 0.163 gal/foot |
| 4" | 0.653 gal/foot |
| 6" | 1.469 gal/foot |
| 8" | 2.611 gal/foot |

Volume of water in well casing, gallons: 0.52
 3 Well volumes (= length water column X gal/foot X 3): 1.55
 Actual volume purged prior to sampling: 2.0 gallons
 Sampling Methodology: Dedicated Disposable Bailor
 Sampling Equipment: variable speed peristaltic pump

Well Recharged? yes
 Required Analysis: VOL% - TCL

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------------|
| | 0 | 0.5 | 0.75 | 1.0 | 1.25 | 1.5 | 1.75 | FINAL - 2.0 |
| Turbidity | 140 | 66.7 | 53.2 | 34.5 | 25.4 | 17.6 | 13.9 | 5.0 |
| Temperature | 22.3 | 20.9 | 20.5 | 20.6 | 20.5 | 20.4 | 20.3 | 20.5 |
| pH | 8.56 | 8.55 | 8.48 | 8.46 | 8.48 | 8.48 | 8.47 | 8.47 |
| Conductivity | 1.00 | 0.97 | 0.740 | 0.735 | 0.735 | 0.732 | 0.721 | 0.740 |
| DO | 10.29 | 10.97 | 10.68 | 10.47 | 10.56 | 10.44 | 10.42 | 10.42 |
| Sal | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |

Time sample was collected: 14:35

COMMENTS well recharged - pump rate = recharge rate
well sampled immediately after development
low turbidity

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation Center
Project Number: 5596-03
Site Location: Gowanda, NY
Sample Date: 08/29/02
Weather: overcast, 68°F in Am
Personnel: Ed Jones



B E R G M A N N
associates

GROUNDWATER SAMPLE POINT

Well Number: MW-6
Location: North property line
Casing Diameter: 2.0 in

Depth to water, below top of casing: 13.33
Depth to bottom of the well: 22.38
Length of water column in well: 9.55

| Well Dia. | Volume/Foot |
|-----------|----------------|
| 1" | 0.041 gal/foot |
| 2" | 0.163 gal/foot |
| 4" | 0.653 gal/foot |
| 6" | 1.469 gal/foot |
| 8" | 2.611 gal/foot |

Volume of water in well casing, gallons: 1.59
3 Well volumes (= length water column X gal/foot X 3): 4.78
Actual volume purged prior to sampling: 5.50 gallons
Sampling Methodology: Dedicated Bailer
Sampling Equipment: peristaltic variable speed pump
used to purge well at low flow rate
Well Recharged? yes
Required Analysis: Full Analysis: VOCs, SVOCs, Metals
PCB, Pesticides & Herbicides

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | 0 | 0.5 | 1.0 | 1.5 | 2 | 3 | 4 | 5 | 5.5 | |
| Turbidity | 2.47 | 2.99 | 2.72 | 2.99 | 6.71 | 1.48 | 86 | 60 | 40 | |
| Temperature | 18.2 | 17.7 | 18.1 | 17.5 | 17.2 | 17.6 | 17.4 | 17.6 | 17.6 | |
| pH | 7.01 | 8.98 | 8.96 | 8.88 | 8.85 | 8.83 | 8.83 | 8.88 | 8.84 | |
| Conductivity | 0.607 | 0.610 | 0.610 | 0.605 | 0.603 | 0.601 | 0.600 | 0.599 | 0.600 | |
| DO | 9.99 | 10.15 | 9.92 | 10.05 | 10.13 | 9.94 | 9.94 | 10.08 | 10.07 | |
| Sal | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | |

Time sample was collected: 9:30 AM

COMMENTS Depth to water measured on 08/28/02

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation Center
Project Number: 5596-03
Site Location: Gowanda, NY
Sample Date: 08/29/02
Weather: Overcast in Morning, 68°F
Personnel: Edward Jones



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associates

GROUNDWATER SAMPLE POINT

Well Number: MW-7
Location: Northwest corner of property, by fence
Casing Diameter: 2"

Depth to water, below top of casing: 13.23'
Depth to bottom of the well: 21.80'
Length of water column in well: 8.57

| Well Dia. | Volume/Foot |
|-----------|----------------|
| 1" | 0.041 gal/foot |
| 2" | 0.163 gal/foot |
| 4" | 0.653 gal/foot |
| 6" | 1.469 gal/foot |
| 8" | 2.611 gal/foot |

Volume of water in well casing, gallons: 1.40 gal
3 Well volumes (= length water column X gal/foot X 3): 4.20 gal
Actual volume purged prior to sampling: 4.50
Sampling Methodology: Dedicated Baillet
Sampling Equipment: peristaltic pump used to develop well at low flow rate

Well Recharged? yes
Required Analysis: VOCs = collected Duplicate sample

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|---------------------|
| | 0 | .5 | 1 | 1.5 | 2 | 3 | 4 | 4.50 |
| Turbidity | 8.31 | 7.999 | 7.999 | 7.999 | 7.94 | 2.16 | 1.51 | <u>NOT RECORDED</u> |
| Temperature | 18.5 | 18.4 | 18.6 | 18.4 | 18.1 | 18.1 | 18.1 | |
| pH | 8.72 | 8.67 | 8.70 | 8.67 | 8.70 | 8.68 | 8.71 | |
| Conductivity | 0.97 | 0.97 | 0.726 | 0.699 | 0.693 | 0.683 | 0.682 | |
| DO | 10.30 | 10.40 | 10.81 | 10.78 | 10.92 | 11.23 | 11.00 | |
| Sal | 0.04 | 0.04 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | |

Time sample was collected: 1:20 pm

COMMENTS 2 sets of samples collected
Depth to water measured 08/28/02

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation Center
Project Number: 5596-03
Site Location: Gowanda, NY
Sample Date: Wed 08/28/08
Weather: Cloudy 70°F in Am
Personnel: Ed Jones & Jim Marschner



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GROUNDWATER SAMPLE POINT

Well Number: MW-8
Location: Grass yard, west side of Building
Casing Diameter: 2"

Depth to water, below top of casing: 9.36
Depth to bottom of the well: 17.65
Length of water column in well: 8.29

| Well Dia. | Volume/Foot |
|-----------|------------------|
| 1" | = 0.041 gal/foot |
| 2" | = 0.163 gal/foot |
| 4" | = 0.653 gal/foot |
| 6" | = 1.469 gal/foot |
| 8" | = 2.611 gal/foot |

Volume of water in well casing, gallons: 1.35 gal
3 Well volumes (= length water column X gal/foot X 3): 4.05 gal
Actual volume purged prior to sampling: 4.5 gallons
Sampling Methodology: Dedicated Bailer
Sampling Equipment: Electric variable speed peristaltic pump

Well Recharged? yes
Required Analysis: VOCS - TCL

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | 0 | 0.5 | 1.0 | 2.0 | 3.0 | 3.5 | 4.0 | 4.5 | | |
| Turbidity | 255 | 7999 | 7999 | 7999 | 7999 | 7999 | | 900 | 139 | |
| Temperature | 16.1 | 15.90 | 16.4 | 16.9 | 16.4 | 16.5 | 16.7 | 16.7 | 19.2 | |
| pH | 8.70 | 9.11 | 9.04 | 9.05 | 8.97 | 8.94 | 9.03 | 9.14 | 8.68 | |
| Conductivity | 2.63 | 1.11 | 1.47 | 1.16 | 0.94 | 0.93 | 0.735 | 0.725 | 0.705 | |
| DO | 10.73 | 10.96 | 10.68 | 10.53 | 10.79 | 10.73 | 10.89 | 10.78 | 11.20 | |
| Sal | 0.12 | 0.04 | 0.06 | 0.05 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | |

Time sample was collected: 1315

COMMENTS pump rate = recharge rate
sample collected 1 hour after well development.

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation center
Project Number: 5596-03
Site Location: Gowanda, NY
Sample Date: Wed 08/28/02
Weather: Cloudy, 70°F in Am
Personnel: Ed Jones & Jim Marschner



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GROUNDWATER SAMPLE POINT

Well Number: MW-9
Location: grass, by road, west property line
Casing Diameter: 2"

Depth to water, below top of casing: 9.25
Depth to bottom of the well: 20.96
Length of water column in well: 11.71

| Well Dia. | Volume/Foot |
|-----------|----------------|
| 1" | 0.041 gal/foot |
| 2" | 0.163 gal/foot |
| 4" | 0.653 gal/foot |
| 6" | 1.469 gal/foot |
| 8" | 2.611 gal/foot |

Volume of water in well casing, gallons: 1.91 gal
3 Well volumes (= length water column X gal/foot X 3): 5.73
Actual volume purged prior to sampling: 6.50
Sampling Methodology: Peristaltic pump to purge; Bailor to sample
Sampling Equipment: _____

Well Recharged? YES
Required Analysis: VOCs - TCL

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 0 gal | 0.5 | 2.0 | 3.0 | 4.0 | 4.5 | 5.0 | 6.0 | FINAL |
| Turbidity | 205 | 7999 | 154 | 7999 | 175 | 7999 | 230 | 151 | 160 |
| Temperature | 14.2 | 13.9 | 13.6 | 13.4 | 14.6 | 13.6 | 13.9 | 14.1 | 14.5 |
| pH | 8.90 | 8.90 | 8.89 | 8.87 | 8.89 | 8.90 | 8.91 | 8.93 | 8.97 |
| Conductivity | 1.51 | 1.52 | 1.53 | 1.54 | 1.53 | 1.55 | 1.56 | 1.57 | 1.50 |
| DO | 11.54 | 11.60 | 11.64 | 11.66 | 11.79 | 11.96 | 11.87 | 12.29 | 11.30 |
| Salinity | 0.06 | 0.07 | 0.07 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |

Time sample was collected: 10³⁰ Am

COMMENTS

pump rate = recharge rate
Sample collected 1 hour after development

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation Center
Project Number: 5596-03
Site Location: Gowanda, NY
Sample Date: week 08/28/02
Weather: Cloudy, 70°F
Personnel: Ed Jones & Jim Marschner



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GROUNDWATER SAMPLE POINT

Well Number: MW-10
Location: Grass, South of parking lot
Casing Diameter: 2"

Depth to water, below top of casing: 7.09
Depth to bottom of the well: 19.42
Length of water column in well: 12.33 FT

| Well Dia. | Volume/Foot |
|-----------|----------------|
| 1" | 0.041 gal/foot |
| 2" | 0.163 gal/foot |
| 4" | 0.653 gal/foot |
| 6" | 1.469 gal/foot |
| 8" | 2.611 gal/foot |

Volume of water in well casing, gallons: 2.01
3 Well volumes (= length water column X gal/foot X 3): 6.03
Actual volume purged prior to sampling: 6.5 gallons
Sampling Methodology: Dedicated Bailer
Sampling Equipment: Variable speed peristaltic pump

Well Recharged? yes
Required Analysis: VOCs - TCL

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | SAMPLE |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|--------|
| | 0 | 1 gal | 2 | 4 | 5 | 6 | 6.5 | |
| Turbidity | 152 | 7999 | 7999 | 703 | 342 | 130 | 128 | 151 |
| Temperature | 16.8 | 16.0 | 15.4 | 15.3 | 15.3 | 15.4 | 15.3 | 16.5 |
| pH | 8.70 | 8.73 | 8.78 | 8.80 | 8.81 | 8.78 | 8.82 | 9.09 |
| Conductivity | 0.502 | 0.489 | 0.515 | 0.539 | 0.524 | 0.524 | 0.524 | 0.479 |
| DO | 10.13 | 10.86 | 11.09 | 10.99 | 11.11 | 11.02 | 11.45 | 9.95 |
| Sal | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 |

Time sample was collected: 11:30

COMMENTS pump rate = recharge rate
sample collected 1 hour after development.

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation Center
Project Number: 5596.03
Site Location: Gowanda, NY
Sample Date: 08/29/02
Weather: Humid, 75°F light rain
Personnel: Edward Jones



GROUNDWATER SAMPLE POINT

Well Number: mw-11
Location: inside building, in Hall way
Casing Diameter: 2 in

Depth to water, below top of casing: 6.61
Depth to bottom of the well: 15.48
Length of water column in well: 8.87

| Well Dia. | Volume/Foot |
|-----------|----------------|
| 1" | 0.041 gal/foot |
| 2" | 0.163 gal/foot |
| 4" | 0.653 gal/foot |
| 6" | 1.469 gal/foot |
| 8" | 2.611 gal/foot |

Volume of water in well casing, gallons: 1.45
3 Well volumes (= length water column X gal/foot X 3): 4.34
Actual volume purged prior to sampling: 4.75 gallons
Sampling Methodology: Dedicated Baiter
Sampling Equipment: peristaltic pump on low flow setting was used to purge well
Well Recharged? Yes
Required Analysis: VOCs

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 0 | 0.5 | 1.0 | 1.5 | 2 | 3 | 4 | 4.50 | 4.75 |
| Turbidity | 180 | 183 | 1999 | 1999 | 1999 | 1999 | 812 | 608 | 200 |
| Temperature | 18.0 | 17.6 | 17.3 | 17.2 | 17.0 | 17.1 | 17.2 | 17.1 | 17.3 |
| pH | 8.63 | 8.58 | 8.57 | 8.58 | 8.66 | 8.65 | 8.67 | 8.63 | 8.62 |
| Conductivity | 1.29 | 1.33 | 1.31 | 0.908 | 0.93 | 0.708 | 0.653 | 0.648 | 0.633 |
| DO | 11.28 | 11.43 | 11.37 | 11.42 | 11.44 | 11.40 | 11.23 | 11.13 | 11.00 |
| Sal | 0.05 | 0.06 | 0.05 | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 |

Time sample was collected: 15:20

COMMENTS Depth to water measured on 08/28/02

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation center
 Project Number: 5596.03
 Site Location: Gowanda, NY
 Sample Date: 08/29/02
 Weather: Humid, 75°F, showers
 Personnel: Edward Jones



B E R G M A N N
associates

GROUNDWATER SAMPLE POINT

Well Number: mw-12
 Location: inside building, in hallway
 Casing Diameter: 2.0 in

Depth to water, below top of casing: 7.23
 Depth to bottom of the well: 17.38
 Length of water column in well: 10.15

| Well Dia. | Volume/Foot |
|-----------|------------------|
| 1" | = 0.041 gal/foot |
| 2" | = 0.163 gal/foot |
| 4" | = 0.653 gal/foot |
| 6" | = 1.469 gal/foot |
| 8" | = 2.611 gal/foot |

Volume of water in well casing, gallons: 1.65
 3 Well volumes (= length water column X gal/foot X 3): 4.96
 Actual volume purged prior to sampling: 5.25
 Sampling Methodology: Dedicated Bailor
 Sampling Equipment: peristaltic pump of low flow pump setting used to purge well

Well Recharged? yes
 Required Analysis: Full Analysis: VOCs, SVOCs, metals, PCBs, pesticides, herbicides

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|----|-------|
| | 0 | .5 | 1 | 1.5 | 2 | 3 | 4 | 5 | 5.25 |
| Turbidity | 89 | 49 | 23 | 17 | 21 | 7 | 21 | 11 | 3.0 |
| Temperature | 18.2 | 18.3 | 18.0 | 17.9 | 17.9 | 18.2 | 17.8 | | 18.1 |
| pH | 8.55 | 8.50 | 8.50 | 8.48 | 8.52 | 8.51 | 8.47 | | 8.58 |
| Conductivity | 0.507 | 0.507 | 507 | .509 | 0.499 | 0.509 | 0.514 | | 0.509 |
| DO | 10.41 | 10.22 | 10.28 | 10.59 | 10.41 | 10.26 | 10.30 | | 10.26 |
| sal | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | | 0.02 |

Time sample was collected: 4:15 pm

COMMENTS depth to water measured 08/28/02

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Rehabilitation
Project Number: 5596-03
Site Location: Gowanda, NY
Sample Date: 8/28/02
Weather: Humid, 75° F
Personnel: Ed Jones & Jim Marschner



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GROUNDWATER SAMPLE POINT

Well Number: MW-13
Location: Inside Building Hallway
Casing Diameter: 2.0 in

Depth to water, below top of casing: 7.28
Depth to bottom of the well: 17.40
Length of water column in well: 10.12

| Well Dia. | Volume/Foot |
|-----------|----------------|
| 1" | 0.041 gal/foot |
| 2" | 0.163 gal/foot |
| 4" | 0.653 gal/foot |
| 6" | 1.469 gal/foot |
| 8" | 2.61 gal/foot |

Volume of water in well casing, gallons: 1.65
3 Well volumes (= length water column X gal/foot X 3): 4.95
Actual volume purged prior to sampling: 5.0 gallons
Sampling Methodology: Dedicated Bailor
Sampling Equipment: variable speed peristaltic pump
Well Recharged? yes
Required Analysis: VOCs - TCL

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|--|
| | 0 | 0.5 | 1 | 1.5 | 2 | 3 | 4 | 5 | |
| Turbidity | 12 | 43 | 46 | 6 | 3 | 3 | 1 | 11 | |
| Temperature | 19.6 | 18.8 | 18.4 | 18.9 | 18.1 | 18.1 | 18.1 | 18.0 | |
| pH | 8.54 | 8.45 | 8.37 | 8.33 | 8.35 | 8.35 | 8.37 | 8.39 | |
| Conductivity | 0.480 | 0.480 | 0.477 | 0.481 | 0.483 | 0.481 | 0.483 | 0.499 | |
| DO | 10.87 | 11.05 | 11.03 | 10.95 | 11.05 | 10.78 | 10.51 | 10.47 | |
| Sal | 0.02 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | |

Time sample was collected: 15:40

COMMENTS Well Recharged, pump rate= recharge
very clear, low turbidity
sampled immediately after development

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation Center
Project Number: 5596-03
Site Location: Gowanda, NY
Sample Date: 08/29/02
Weather: Humid, 75°F, Light Rain
Personnel: Edward Jones



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GROUNDWATER SAMPLE POINT

Well Number: MW-14
Location: inside Building, in Loading Dock / machine shop
Casing Diameter: 2.0 in

Depth to water, below top of casing: 10.04
Depth to bottom of the well: 18.15
Length of water column in well: 8.11

| Well Dia. | Volume/Foot |
|-----------|------------------|
| 1" | = 0.041 gal/foot |
| 2" | = 0.163 gal/foot |
| 4" | = 0.653 gal/foot |
| 6" | = 1.469 gal/foot |
| 8" | = 2.611 gal/foot |

Volume of water in well casing, gallons: 1.32
3 Well volumes (= length water column X gal/foot X 3): 3.97
Actual volume purged prior to sampling: 4.25 gallons
Sampling Methodology: Dedicated Bailor
Sampling Equipment: peristaltic pump used to purge well at low flow rate prior to sampling
Well Recharged? yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | |
|--------------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | 0 | .5 | 1 | 1.5 | 2 | 3 | 4 | 4-25 |
| Turbidity | 93 | 332 | 84 | 54 | 40 | 47 | 24 | 18 |
| Temperature | 19.4 | 18.3 | 18.2 | 18.3 | 17.90 | 18.0 | 18.2 | 18.1 |
| pH | 8.76 | 8.80 | 8.74 | 8.74 | 8.73 | 8.73 | 8.72 | 8.70 |
| Conductivity | 0.619 | 0.649 | 0.636 | 0.605 | 0.600 | 0.609 | 0.591 | 0.590 |
| DO | 9.81 | 10.39 | 10.52 | 10.64 | 10.65 | 10.38 | 10.39 | 10.40 |
| Sal | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |

Time sample was collected: 12¹⁰

COMMENTS Depth to water measured 08/28/02

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda Day Habilitation Center
Project Number: 5596-03
Site Location: Gowanda, NY
Sample Date: 08/29/02
Weather: Humid, 75°F, Light Rain-showers
Personnel: Edward Jones



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associates

GROUNDWATER SAMPLE POINT

Well Number: MCW-15
Location: Inside the building, in North Cafeteria
Casing Diameter: 2.0 in

Depth to water, below top of casing: 10.51
Depth to bottom of the well: 19.80
Length of water column in well: 9.29

| Well Dia. | Volume/Foot |
|-----------|----------------|
| 1" | 0.041 gal/foot |
| 2" | 0.163 gal/foot |
| 4" | 0.653 gal/foot |
| 6" | 1.469 gal/foot |
| 8" | 2.611 gal/foot |

Volume of water in well casing, gallons: 1.51
3 Well volumes (= length water column X gal/foot X 3): 4.54
Actual volume purged prior to sampling: 5.50 gallons
Sampling Methodology: Dedicated Bailor
Sampling Equipment: Peristaltic pump on low flow rate
used to purge well prior to sampling
Well Recharged? yes
Required Analysis: VOCs only

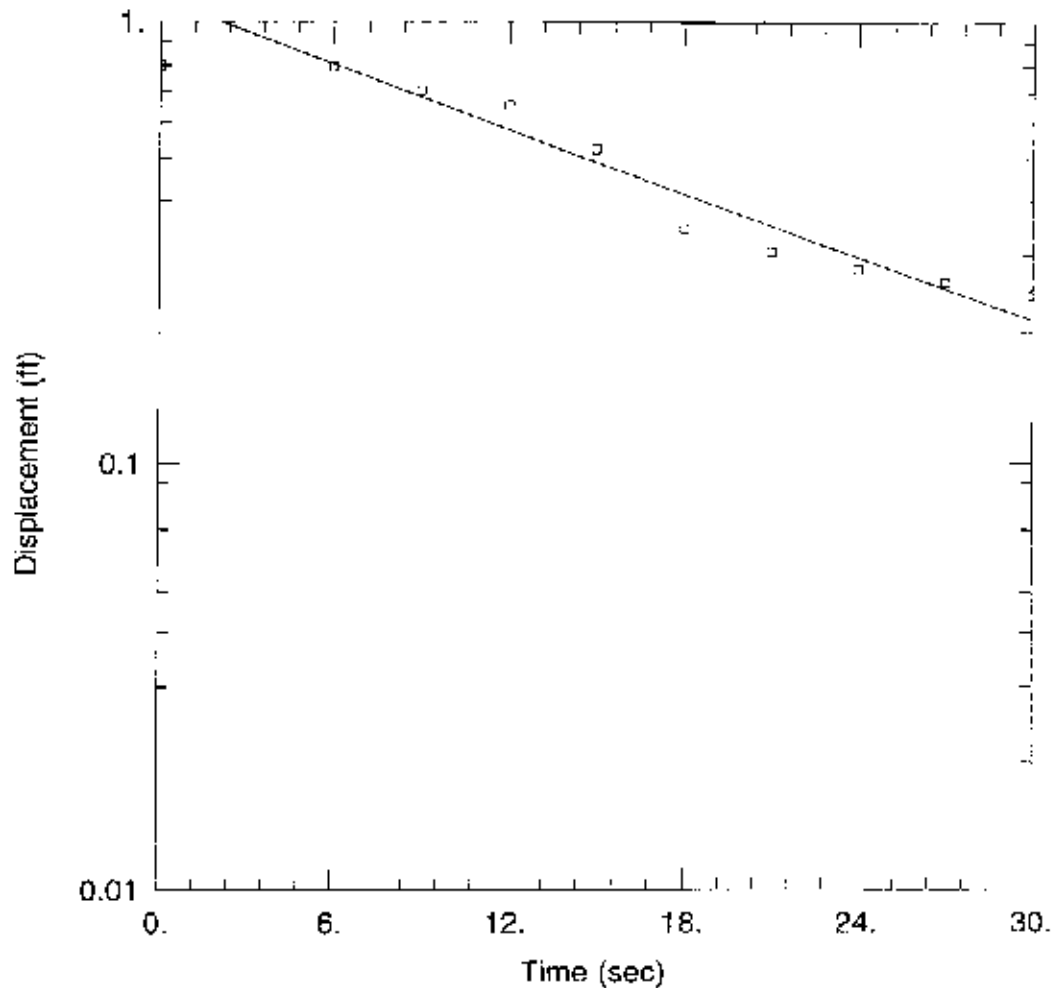
FIELD PARAMETER MEASUREMENTS

| Parameter | Accumulated Volume Purged in Gallons | | | | | | | | | |
|--------------|--------------------------------------|-------|-------|------|------|-------|-------|-------|-------|--|
| | 0 | .5 | 1 | 1.5 | 2 | 3 | 4 | 5 | 5.5 | |
| Turbidity | 122 | 7999 | 7999 | 7999 | 7999 | 7999 | 7999 | 126 | 123 | |
| Temperature | 18.4 | 18.3 | 18.2 | 18.2 | 18.5 | 18.6 | 18.6 | 18.8 | 18.9 | |
| pH | 8.83 | 8.80 | 8.74 | 8.73 | 8.74 | 8.75 | 8.75 | 8.76 | 8.72 | |
| Conductivity | 1.11 | 1.18 | 1.05 | 0.96 | 0.95 | 0.705 | 0.646 | 0.627 | 0.635 | |
| DO | 9.84 | 10.02 | 10.06 | 9.95 | 9.91 | 9.88 | 9.90 | 9.93 | 9.86 | |
| Sal | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 | 0.03 | 0.02 | 0.02 | 0.02 | |

Time sample was collected: 11:40

COMMENTS Depth to water measured 08/28/02

APPENDIX 3
Slug Test Field Data and Analysis



SLUG TEST

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-1limited 2nd.aqt
 Date: 02/13/03 Time: 13:19:10

PROJECT INFORMATION

Company: Bergmann
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda
 Test Well: MW-1
 Test Date: 10/17/02

AQUIFER DATA

Saturated Thickness: 10.03 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1)

Initial Displacement: 0.8 ft Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft
 Screen Length: 12. ft Total Well Penetration Depth: 10.03 ft
 Gravel Pack Porosity: 0.42

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.001265 cm/sec $y_0 = 1.122 ft$

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-1limited 2nd.aqt
 Title: Slug Test
 Date: 02/13/03
 Time: 13:19:20

PROJECT INFORMATION

Company: Bergmann
 Client: DASNY
 Project: 5596.03
 Location: Gowanda
 Test Date: 10/17/02
 Test Well: MW-1

AQUIFER DATA

Saturated Thickness: 10.03 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Initial Displacement: 0.8 ft
 Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft
 Well Skin Radius: 0.333 ft
 Screen Length: 12. ft
 Total Well Penetration Depth: 10.03 ft
 Gravel Pack Porosity: 0.42

No. of observations: 10

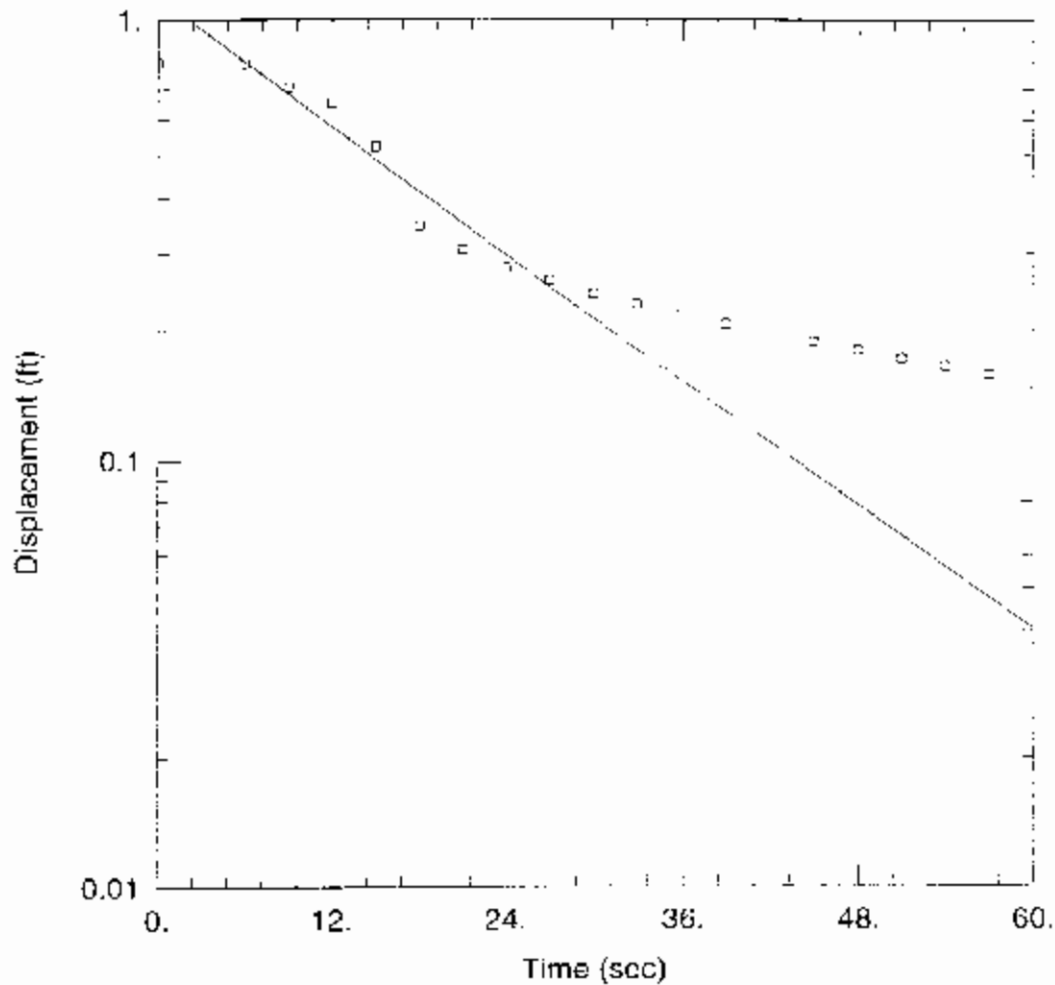
| | | Observation Data | | | |
|------------|-------------------|------------------|-------------------|------------|-------------------|
| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0. | 0. | 15. | 0.523 | 27. | 0.26 |
| 6. | 0.796 | 18. | 0.346 | 30. | 0.243 |
| 9. | 0.704 | 21. | 0.305 | | |
| 12. | 0.652 | 24. | 0.279 | | |

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTSEstimated Parameters

| Parameter | Estimate | |
|-----------|----------|--------|
| K | 0.001265 | cm/sec |
| y0 | 1.122 | ft |



SLUG TEST

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-1.aqt
 Date: 02/13/03 Time: 14:04:37

PROJECT INFORMATION

Company: Bergmann
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda
 Test Well: MW-1
 Test Date: 10/17/02

AQUIFER DATA

Saturated Thickness: 10.03 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1)

Initial Displacement: 0.8 ft Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft
 Screen Length: 12 ft Total Well Penetration Depth: 10.03 ft
 Gravel Pack Porosity: 0.42

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice
 K = 0.001265 cm/sec y0 = 1.122 ft

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-1.aqt

Title: Slug Test

Date: 02/13/03

Time: 14:04:45

PROJECT INFORMATION

Company: Bergmann

Client: DASN Y

Project: 5596.03

Location: Gowanda

Test Date: 10/17/02

Test Well: MW-1

AQUIFER DATA

Saturated Thickness: 10.03 ft

Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Initial Displacement: 0.8 ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.333 ft

Well Skin Radius: 0.333 ft

Screen Length: 12. ft

Total Well Penetration Depth: 10.03 ft

Gravel Pack Porosity: 0.42

No. of observations: 20

| | | Observation Data | | | |
|------------|-------------------|------------------|-------------------|------------|-------------------|
| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0. | 0. | 24. | 0.279 | 45. | 0.188 |
| 6. | 0.796 | 27. | 0.26 | 48. | 0.18 |
| 9. | 0.704 | 30. | 0.243 | 51. | 0.172 |
| 12. | 0.652 | 33. | 0.229 | 54. | 0.165 |
| 15. | 0.523 | 36. | 0.218 | 57. | 0.158 |
| 18. | 0.346 | 39. | 0.207 | 60. | 0.15 |
| 21. | 0.305 | 42. | 0.197 | | |

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

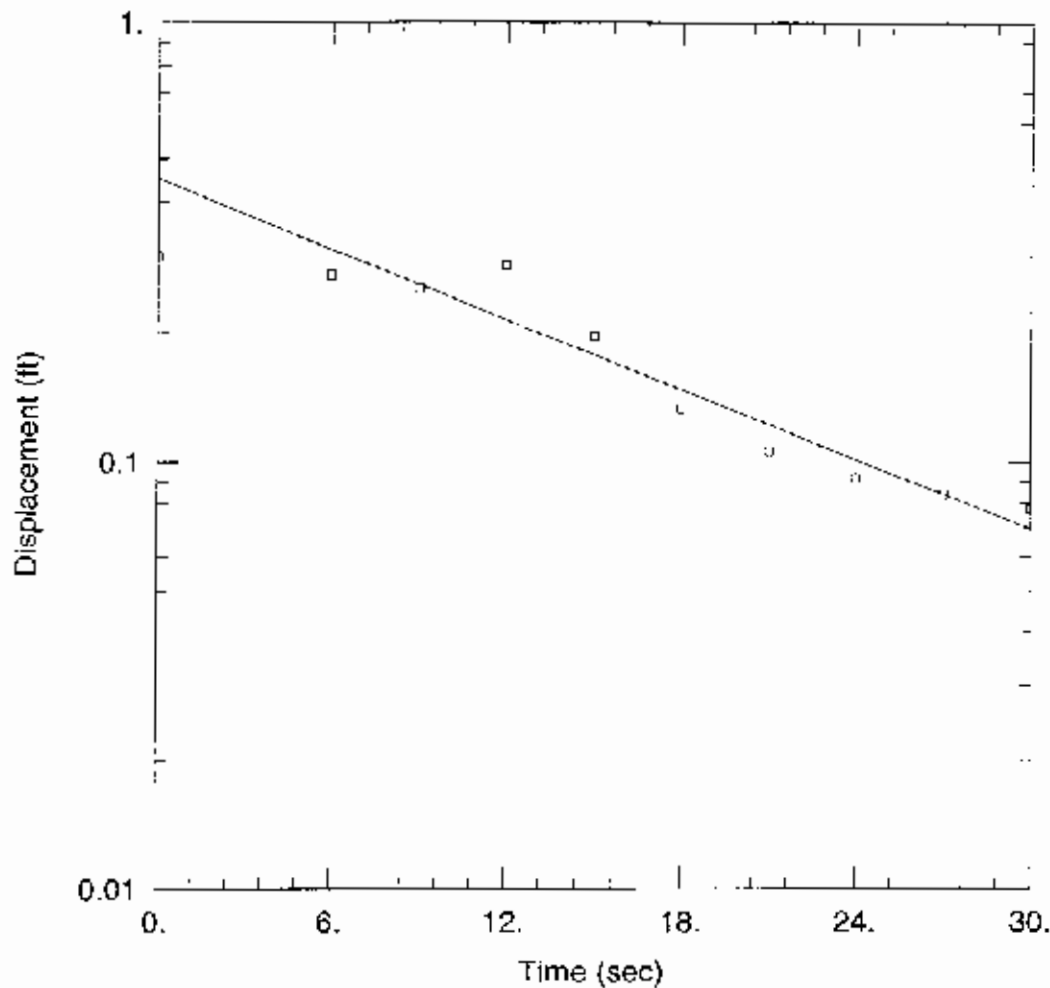
VISUAL ESTIMATION RESULTS

Estimated Parameters

| Parameter | Estimate | |
|-----------|----------|--------|
| K | 0.001265 | cm/sec |
| y0 | 1.122 | ft |

MW-1 Initial Elevation: 10.14

| Date | Time | ET (sec) | ET (min) | Chan[1] | Chan[2] | Change in Elev. |
|------------|----------|----------|----------|------------|----------|--------------------|
| | | | | Fahrenheit | Feet H2O | |
| 10/17/2002 | 17:39:16 | 0 | 0.000 | 60.13 | 10.7 | 0.56 |
| 10/17/2002 | 17:39:19 | 3 | 0.050 | 60.13 | 10.833 | 0.693 |
| 10/17/2002 | 17:39:22 | 6 | 0.100 | 60.13 | 10.936 | 0.796 |
| 10/17/2002 | 17:39:25 | 9 | 0.150 | 60.13 | 10.844 | 0.704 |
| 10/17/2002 | 17:39:28 | 12 | 0.200 | 60.12 | 10.792 | 0.652 |
| 10/17/2002 | 17:39:31 | 15 | 0.250 | 60.11 | 10.663 | 0.523 |
| 10/17/2002 | 17:39:34 | 18 | 0.300 | 60.11 | 10.486 | 0.346 |
| 10/17/2002 | 17:39:37 | 21 | 0.350 | 60.11 | 10.445 | 0.305 |
| 10/17/2002 | 17:39:40 | 24 | 0.400 | 60.11 | 10.419 | 0.279 |
| 10/17/2002 | 17:39:43 | 27 | 0.450 | 60.11 | 10.4 | 0.26 |
| 10/17/2002 | 17:39:46 | 30 | 0.500 | 60.11 | 10.383 | 0.243 |
| 10/17/2002 | 17:39:49 | 33 | 0.550 | 60.11 | 10.369 | 0.229 |
| 10/17/2002 | 17:39:52 | 36 | 0.600 | 60.1 | 10.358 | 0.218 |
| 10/17/2002 | 17:39:55 | 39 | 0.650 | 60.1 | 10.347 | 0.207 |
| 10/17/2002 | 17:39:58 | 42 | 0.700 | 60.1 | 10.337 | 0.197 |
| 10/17/2002 | 17:40:01 | 45 | 0.750 | 60.09 | 10.328 | 0.188 |
| 10/17/2002 | 17:40:04 | 48 | 0.800 | 60.09 | 10.32 | 0.18 |
| 10/17/2002 | 17:40:07 | 51 | 0.850 | 60.09 | 10.312 | 0.172 |
| 10/17/2002 | 17:40:10 | 54 | 0.900 | 60.09 | 10.305 | 0.165 |
| 10/17/2002 | 17:40:13 | 57 | 0.950 | 60.09 | 10.298 | 0.158 |
| 10/17/2002 | 17:40:16 | 60 | 1.000 | 60.09 | 10.29 | 0.15 |
| 10/17/2002 | 17:40:19 | 63 | 1.050 | 60.09 | 10.284 | 0.144 |
| 10/17/2002 | 17:40:22 | 66 | 1.100 | 60.09 | 10.278 | 0.138 |
| 10/17/2002 | 17:40:25 | 69 | 1.150 | 60.08 | 10.272 | 0.132 |
| 10/17/2002 | 17:40:28 | 72 | 1.200 | 60.08 | 10.268 | 0.128 |
| 10/17/2002 | 17:40:31 | 75 | 1.250 | 60.07 | 10.265 | 0.125 |
| 10/17/2002 | 17:40:34 | 78 | 1.300 | 60.07 | 10.263 | 0.123 |
| 10/17/2002 | 17:40:37 | 81 | 1.350 | 60.06 | 10.261 | 0.121 |
| 10/17/2002 | 17:40:40 | 84 | 1.400 | 60.06 | 10.26 | 0.12 |
| 10/17/2002 | 17:40:43 | 87 | 1.450 | 60.06 | 10.259 | 0.119 |
| 10/17/2002 | 17:40:46 | 90 | 1.500 | 60.06 | 10.258 | 0.118 |
| 10/17/2002 | 17:40:49 | 93 | 1.550 | 60.06 | 10.257 | 0.117 |
| 10/17/2002 | 17:40:52 | 96 | 1.600 | 60.06 | 10.256 | 0.116 |
| 10/17/2002 | 17:40:55 | 99 | 1.650 | 60.06 | 10.255 | 0.115 |
| 10/17/2002 | 17:40:58 | 102 | 1.700 | 60.06 | 10.254 | 0.114 |
| 10/17/2002 | 17:41:01 | 105 | 1.750 | 60.06 | 10.253 | 0.113 |
| 10/17/2002 | 17:41:04 | 108 | 1.800 | 60.06 | 10.252 | 0.112 |
| 10/17/2002 | 17:41:07 | 111 | 1.850 | 60.06 | 10.251 | 0.111 |
| 10/17/2002 | 17:41:10 | 114 | 1.900 | 60.05 | 10.248 | 0.108 |
| 10/17/2002 | 17:41:13 | 117 | 1.950 | 60.05 | 10.246 | 0.106 |
| 10/17/2002 | 17:41:16 | 120 | 2.000 | 60.04 | 10.242 | 0.102 |
| 10/17/2002 | 17:41:19 | 123 | 2.050 | 60.04 | 10.238 | 0.098 |
| 10/17/2002 | 17:41:22 | 126 | 2.100 | 60.04 | 10.236 | 0.096 |
| 10/17/2002 | 17:41:25 | 129 | 2.150 | 60.04 | 10.233 | 0.093 |
| 10/17/2002 | 17:41:28 | 132 | 2.200 | 60.04 | 10.231 | 0.091 |
| 10/17/2002 | 17:41:31 | 135 | 2.250 | 60.04 | 10.229 | 0.089 |
| 10/17/2002 | 17:41:34 | 138 | 2.300 | 60.04 | 10.228 | 0.088 |



MW-13 SLUG TEST

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-13-limited.aqt
 Date: 02/13/03 Time: 13:20:51

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda
 Test Well: MW-13
 Test Date: 10/17/02

AQUIFER DATA

Saturated Thickness: 10.33 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-13)

Initial Displacement: 0.3 ft Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft
 Screen Length: 14 ft Total Well Penetration Depth: 10.33 ft
 Gravel Pack Porosity: 0.42

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.001238 cm/sec y0 = 0.4511 ft

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-13-limited.aqt
 Title: MW-13 Slug Test
 Date: 02/13/03
 Time: 13:20:59

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Location: Gowanda
 Test Date: 10/17/02
 Test Well: MW-13

AQUIFER DATA

Saturated Thickness: 10.33 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Initial Displacement: 0.3 ft
 Casino Radius: 0.083 ft
 Wellbore Radius: 0.333 ft
 Well Skin Radius: 0.333 ft
 Screen Length: 14. ft
 Total Well Penetration Depth: 10.33 ft
 Gravel Pack Porosity: 0.42

No. of observations: 10

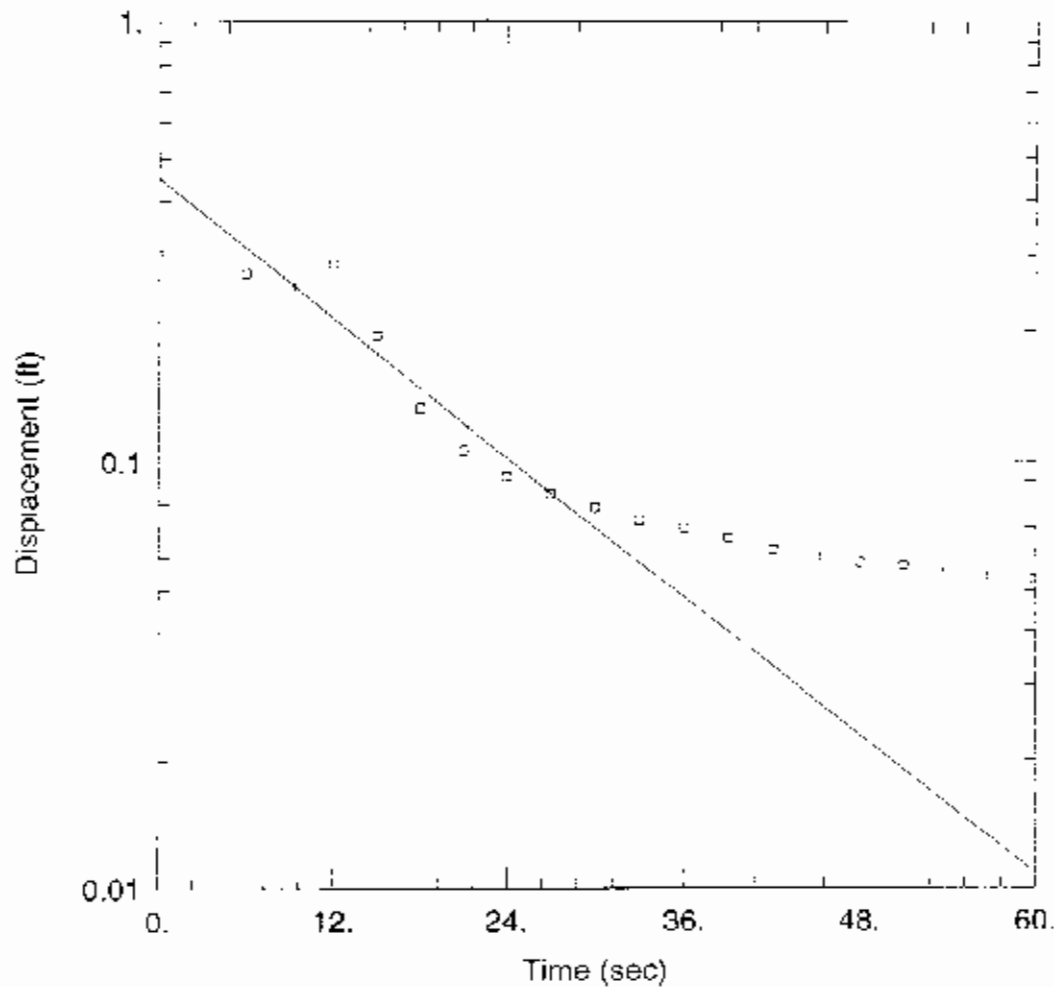
| | | Observation Data | | | |
|------------|-------------------|------------------|-------------------|------------|-------------------|
| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0. | 0. | 15. | 0.196 | 27. | 0.084 |
| 6. | 0.272 | 18. | 0.133 | 30. | 0.078 |
| 9. | 0.253 | 21. | 0.106 | | |
| 12. | 0.286 | 24. | 0.092 | | |

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTSEstimated Parameters

| Parameter | Estimate | |
|-----------|----------|--------|
| K | 0.001238 | cm/sec |
| y0 | 0.4511 | ft |



MW-13 SLUG TEST

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-13.aqt
 Date: 02/19/03 Time: 14:28:23

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda
 Test Well: MW-13
 Test Date: 10/17/02

AQUIFER DATA

Saturated Thickness: 10.33 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-13)

Initial Displacement: 0.3 ft Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft
 Screen Length: 14. ft Total Well Penetration Depth: 10.33 ft
 Gravel Pack Porosity: 0.42

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.001238 cm/sec $y_0 =$ 0.4511 ft

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-13.aqt
 Title: MW-13 Slug Test
 Date: 02/13/03
 Time: 14:28:29

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Location: Gowanda
 Test Date: 10/17/02
 Test Well: MW-13

AQUIFER DATA

Saturated Thickness: 10.33 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Initial Displacement: 0.3 ft
 Casino Radius: 0.083 ft
 Wellbore Radius: 0.333 ft
 Well Skin Radius: 0.333 ft
 Screen Length: 14. ft
 Total Well Penetration Depth: 10.33 ft
 Gravel Pack Porosity: 0.42

No. of observations: 20

| | | Observation Data | | | |
|------------|-------------------|------------------|-------------------|------------|-------------------|
| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0. | 0. | 24. | 0.092 | 45. | 0.06 |
| 6. | 0.272 | 27. | 0.084 | 48. | 0.058 |
| 9. | 0.253 | 30. | 0.078 | 51. | 0.057 |
| 12. | 0.286 | 33. | 0.073 | 54. | 0.055 |
| 15. | 0.196 | 36. | 0.07 | 57. | 0.054 |
| 18. | 0.133 | 39. | 0.066 | 60. | 0.053 |
| 21. | 0.106 | 42. | 0.062 | | |

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bower Rice

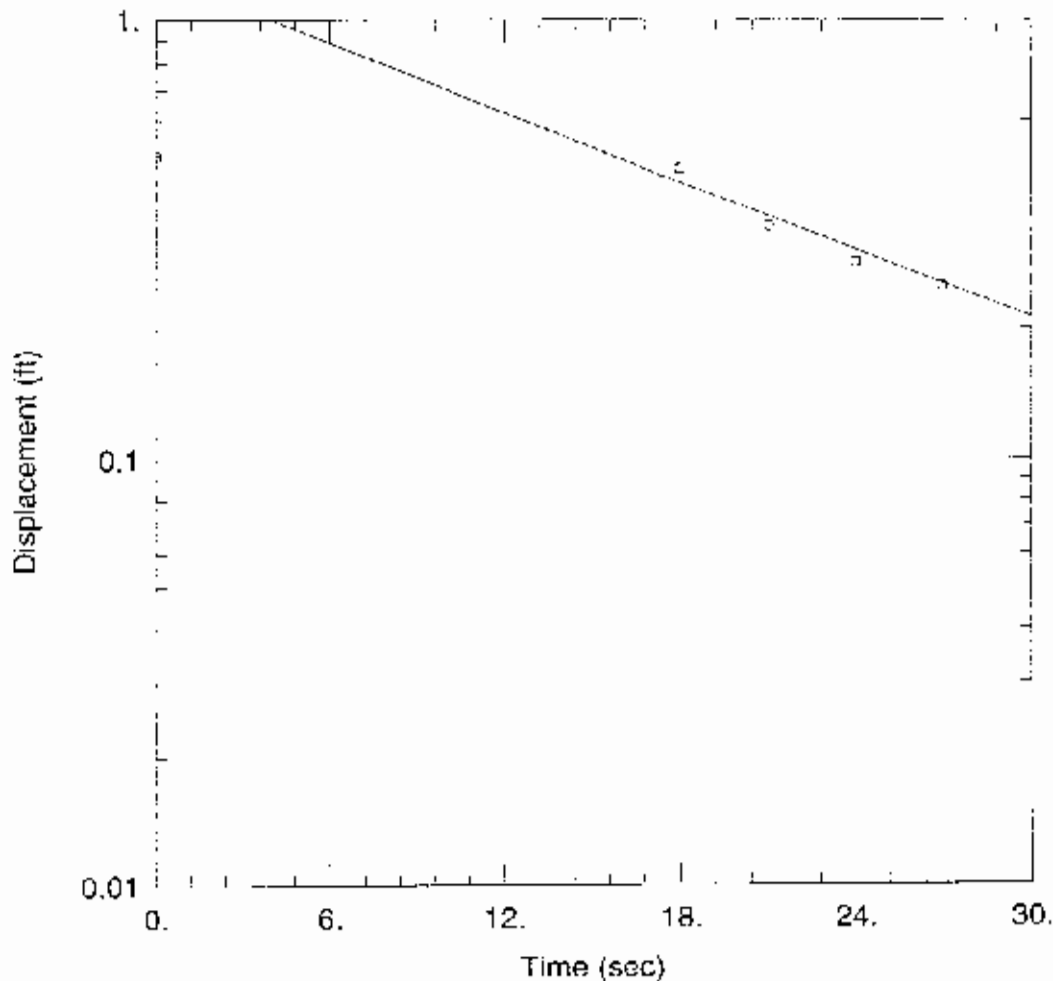
VISUAL ESTIMATION RESULTS

Estimated Parameters

| Parameter | Estimate | |
|-----------|----------|--------|
| K | 0.001238 | cm/sec |
| y0 | 0.4511 | ft |

MW-13 RISING HEAD

| Date | Time | ET (sec) | ET (Min) | Chan[1] | Chan[2] | Start Elev: | 9.694 |
|------------|----------|----------|----------|------------|----------|-------------|--------------------|
| | | | | Fahrenheit | Feet H2O | | |
| | | | | | | | <u>Change Head</u> |
| 10/17/2002 | 15:50:47 | 0 | 0.000 | 65.8 | 9.694 | | 0 |
| 10/17/2002 | 15:50:50 | 3 | 0.050 | 65.8 | 9.925 | | 0.231 |
| 10/17/2002 | 15:50:53 | 6 | 0.100 | 65.8 | 9.966 | | 0.272 |
| 10/17/2002 | 15:50:56 | 9 | 0.150 | 65.8 | 9.947 | | 0.253 |
| 10/17/2002 | 15:50:59 | 12 | 0.200 | 65.81 | 9.98 | | 0.286 |
| 10/17/2002 | 15:51:02 | 15 | 0.250 | 65.81 | 9.892 | | 0.198 |
| 10/17/2002 | 15:51:05 | 18 | 0.300 | 65.82 | 9.827 | | 0.133 |
| 10/17/2002 | 15:51:08 | 21 | 0.350 | 65.82 | 9.8 | | 0.106 |
| 10/17/2002 | 15:51:11 | 24 | 0.400 | 65.82 | 9.786 | | 0.092 |
| 10/17/2002 | 15:51:14 | 27 | 0.450 | 65.82 | 9.778 | | 0.084 |
| 10/17/2002 | 15:51:17 | 30 | 0.500 | 65.83 | 9.772 | | 0.078 |
| 10/17/2002 | 15:51:20 | 33 | 0.550 | 65.84 | 9.767 | | 0.073 |
| 10/17/2002 | 15:51:23 | 36 | 0.600 | 65.84 | 9.764 | | 0.07 |
| 10/17/2002 | 15:51:26 | 39 | 0.650 | 65.85 | 9.76 | | 0.066 |
| 10/17/2002 | 15:51:29 | 42 | 0.700 | 65.85 | 9.756 | | 0.062 |
| 10/17/2002 | 15:51:32 | 45 | 0.750 | 65.85 | 9.754 | | 0.06 |
| 10/17/2002 | 15:51:35 | 48 | 0.800 | 65.85 | 9.752 | | 0.058 |
| 10/17/2002 | 15:51:38 | 51 | 0.850 | 65.85 | 9.751 | | 0.057 |
| 10/17/2002 | 15:51:41 | 54 | 0.900 | 65.85 | 9.749 | | 0.055 |
| 10/17/2002 | 15:51:44 | 57 | 0.950 | 65.85 | 9.748 | | 0.054 |
| 10/17/2002 | 15:51:47 | 60 | 1.000 | 65.85 | 9.747 | | 0.053 |
| 10/17/2002 | 15:51:50 | 63 | 1.050 | 65.86 | 9.745 | | 0.051 |
| 10/17/2002 | 15:51:53 | 66 | 1.100 | 65.86 | 9.744 | | 0.05 |
| 10/17/2002 | 15:51:56 | 69 | 1.150 | 65.87 | 9.743 | | 0.049 |
| 10/17/2002 | 15:51:59 | 72 | 1.200 | 65.87 | 9.742 | | 0.048 |
| 10/17/2002 | 15:52:02 | 75 | 1.250 | 65.87 | 9.741 | | 0.047 |
| 10/17/2002 | 15:52:05 | 78 | 1.300 | 65.87 | 9.74 | | 0.046 |
| 10/17/2002 | 15:52:08 | 81 | 1.350 | 65.87 | 9.739 | | 0.045 |
| 10/17/2002 | 15:52:11 | 84 | 1.400 | 65.87 | 9.738 | | 0.044 |
| 10/17/2002 | 15:52:14 | 87 | 1.450 | 65.87 | 9.737 | | 0.043 |
| 10/17/2002 | 15:52:17 | 90 | 1.500 | 65.87 | 9.737 | | 0.043 |
| 10/17/2002 | 15:52:20 | 93 | 1.550 | 65.87 | 9.737 | | 0.043 |
| 10/17/2002 | 15:52:23 | 96 | 1.600 | 65.87 | 9.736 | | 0.042 |
| 10/17/2002 | 15:52:26 | 99 | 1.650 | 65.87 | 9.735 | | 0.041 |
| 10/17/2002 | 15:52:29 | 102 | 1.700 | 65.87 | 9.735 | | 0.041 |
| 10/17/2002 | 15:52:32 | 105 | 1.750 | 65.87 | 9.735 | | 0.041 |
| 10/17/2002 | 15:52:35 | 108 | 1.800 | 65.87 | 9.734 | | 0.04 |
| 10/17/2002 | 15:52:38 | 111 | 1.850 | 65.87 | 9.734 | | 0.04 |
| 10/17/2002 | 15:52:41 | 114 | 1.900 | 65.87 | 9.734 | | 0.04 |



MW-12 SLUG TEST

Data Set: C:\...MW-12-Limited-2nd.aqt
 Date: 02/13/03

Time: 13:49:09

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda, NY
 Test Well: MW-12
 Test Date: 10/17/02

AQUIFER DATA

Saturated Thickness: 10.38 ft

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-12)

Initial Displacement: 0.5 ft
 Wellbore Radius: 0.333 ft
 Screen Length: 14 ft
 Gravel Pack Porosity: 0.42

Casing Radius: 0.083 ft
 Well Skin Radius: 0.333 ft
 Total Well Penetration Depth: 10.38 ft

SOLUTION

Aquifer Model: Unconfined
 K = 0.001189 cm/sec

Solution Method: Bower-Rice
 y0 = 1.267 ft

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-12-Limited-2nd.aqt
 Title: MW-12 Slug Test
 Date: 02/13/03
 Time: 13:49:17

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASN Y
 Project: 5596.03
 Location: Gowanda, NY
 Test Date: 10/17/02
 Test Well: MW-12

AQUIFER DATA

Saturated Thickness: 10.38 ft
 Anisotropy Ratio (K_z/K_r): 1.

SLUG TEST WELL DATA

Initial Displacement: 0.5 ft
 Casino Radius: 0.083 ft
 Wellbore Radius: 0.333 ft
 Well Skin Radius: 0.333 ft
 Screen Length: 14. ft
 Total Well Penetration Depth: 10.38 ft
 Gravel Pack Porosity: 0.42

No. of observations: 6

| | | Observation Data | | | |
|------------|-------------------|------------------|-------------------|------------|-------------------|
| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0. | 0. | 21. | 0.344 | 27. | 0.25 |
| 18. | 0.467 | 24. | 0.284 | 30. | 0.224 |

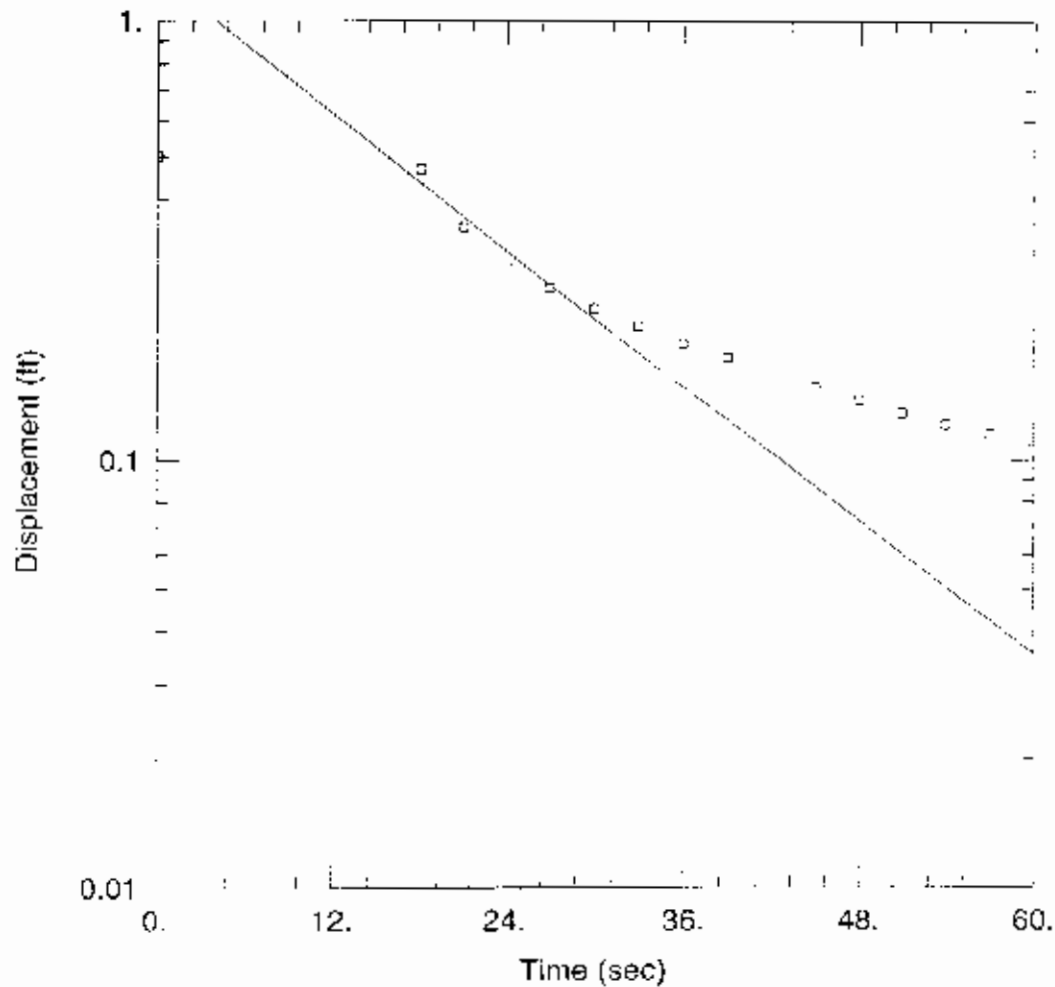
SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTS

Estimated Parameters

| Parameter | Estimate | |
|----------------|----------|--------|
| K | 0.001189 | cm/sec |
| y ₀ | 1.267 | ft |



MW-12 SLUG TEST

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-12\limited.aqt
 Date: 02/13/03 Time: 13:55:07

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda, NY
 Test Well: MW-12
 Test Date: 10/17/02

AQUIFER DATA

Saturated Thickness: 10.38 ft Anisotropy Ratio (K_z/K_r): 1

WELL DATA (MW-12)

Initial Displacement: 0.5 ft Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft
 Screen Length: 14 ft Total Well Penetration Depth: 10.38 ft
 Gravel Pack Porosity: 0.42

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice
 $K = 0.001189$ cm/sec $y_0 = 1.267$ ft

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-12limited.aqt

Title: MW-12 Slug Test

Date: 02/13/03

Time: 13:55:13

PROJECT INFORMATION

Company: Bergmann Associates

Client: DASNY

Project: 5596.03

Location: Gowanda, NY

Test Date: 10/17/02

Test Well: MW-12

AQUIFER DATA

Saturated Thickness: 10.38 ft

Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Initial Displacement: 0.5 ft

Casing Radius: 0.083 ft

Wellbore Radius: 0.333 ft

Well Skin Radius: 0.333 ft

Screen Length: 14. ft

Total Well Penetration Depth: 10.38 ft

Gravel Pack Porosity: 0.42

No. of observations: 16

| | | Observation Data | | | |
|------------|-------------------|------------------|-------------------|------------|-------------------|
| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0. | 0. | 33. | 0.204 | 51. | 0.129 |
| 18. | 0.467 | 36. | 0.187 | 54. | 0.121 |
| 21. | 0.344 | 39. | 0.173 | 57. | 0.115 |
| 24. | 0.284 | 42. | 0.16 | 60. | 0.11 |
| 27. | 0.25 | 45. | 0.148 | | |
| 30. | 0.224 | 48. | 0.138 | | |

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

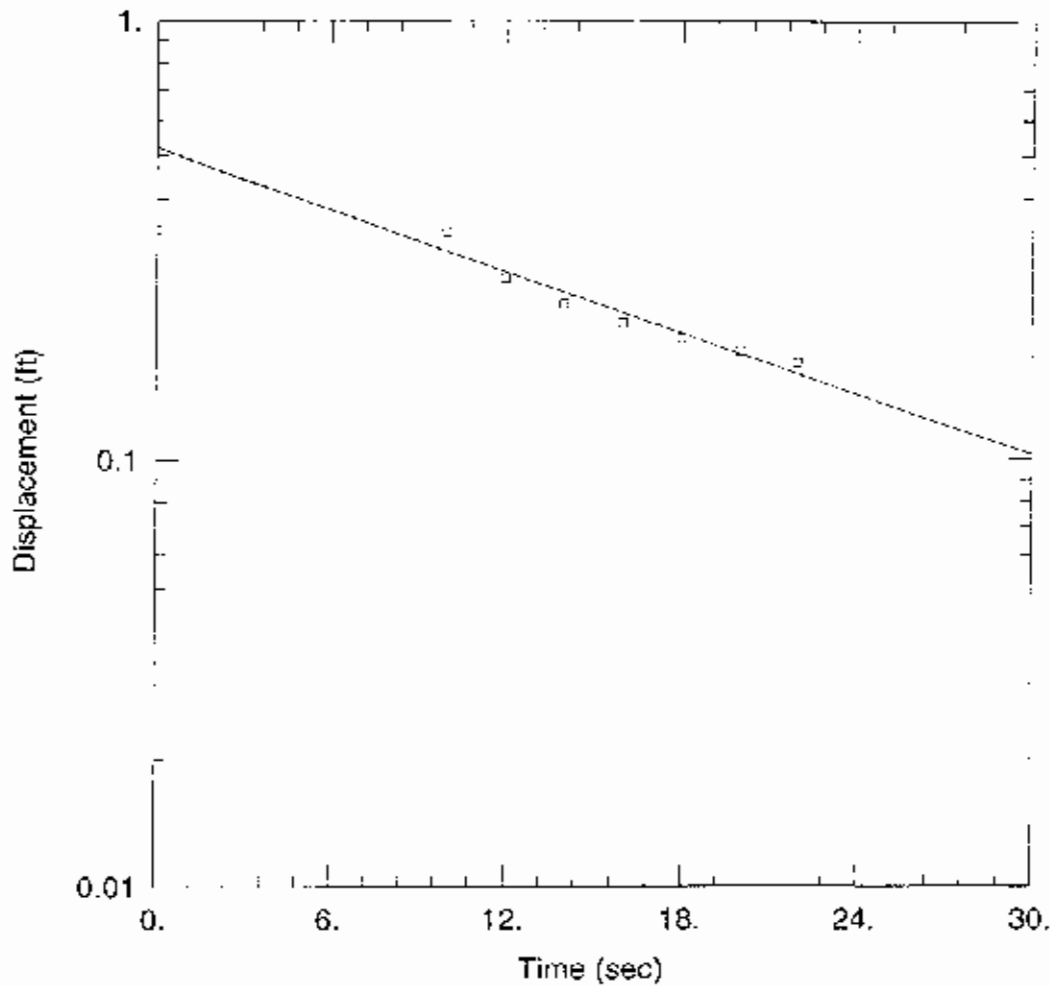
VISUAL ESTIMATION RESULTS

Estimated Parameters

| Parameter | Estimate | |
|-----------|----------|--------|
| K | 0.001189 | cm/sec |
| y0 | 1.267 | ft |

MW-12 Slug Test

| Initial WT: | 10.25 | | Chan[2] | Change |
|-------------|----------|----------|----------|----------|
| Date | Time | ET (sec) | Feet H2O | in Elev. |
| 10/17/2002 | 17:03:47 | 0 | 10.311 | 0.061 |
| 10/17/2002 | 17:03:50 | 3 | 10.478 | 0.228 |
| 10/17/2002 | 17:03:53 | 6 | 10.142 | -0.108 |
| 10/17/2002 | 17:03:56 | 9 | 10.357 | 0.107 |
| 10/17/2002 | 17:03:59 | 12 | 10.46 | 0.21 |
| 10/17/2002 | 17:04:02 | 15 | 10.448 | 0.198 |
| 10/17/2002 | 17:04:05 | 18 | 10.717 | 0.467 |
| 10/17/2002 | 17:04:08 | 21 | 10.594 | 0.344 |
| 10/17/2002 | 17:04:11 | 24 | 10.534 | 0.284 |
| 10/17/2002 | 17:04:14 | 27 | 10.5 | 0.25 |
| 10/17/2002 | 17:04:17 | 30 | 10.474 | 0.224 |
| 10/17/2002 | 17:04:20 | 33 | 10.454 | 0.204 |
| 10/17/2002 | 17:04:23 | 36 | 10.437 | 0.187 |
| 10/17/2002 | 17:04:26 | 39 | 10.423 | 0.173 |
| 10/17/2002 | 17:04:29 | 42 | 10.41 | 0.16 |
| 10/17/2002 | 17:04:32 | 45 | 10.398 | 0.148 |
| 10/17/2002 | 17:04:35 | 48 | 10.388 | 0.138 |
| 10/17/2002 | 17:04:38 | 51 | 10.379 | 0.129 |
| 10/17/2002 | 17:04:41 | 54 | 10.371 | 0.121 |
| 10/17/2002 | 17:04:44 | 57 | 10.365 | 0.115 |
| 10/17/2002 | 17:04:47 | 60 | 10.36 | 0.11 |
| 10/17/2002 | 17:04:50 | 63 | 10.36 | 0.11 |
| 10/17/2002 | 17:04:53 | 66 | 10.361 | 0.111 |
| 10/17/2002 | 17:04:56 | 69 | 10.362 | 0.112 |
| 10/17/2002 | 17:04:59 | 72 | 10.361 | 0.111 |
| 10/17/2002 | 17:05:02 | 75 | 10.356 | 0.106 |
| 10/17/2002 | 17:05:05 | 78 | 10.35 | 0.1 |
| 10/17/2002 | 17:05:08 | 81 | 10.346 | 0.096 |
| 10/17/2002 | 17:05:11 | 84 | 10.345 | 0.095 |
| 10/17/2002 | 17:05:14 | 87 | 10.347 | 0.097 |
| 10/17/2002 | 17:05:17 | 90 | 10.347 | 0.097 |
| 10/17/2002 | 17:05:20 | 93 | 10.347 | 0.097 |
| 10/17/2002 | 17:05:23 | 96 | 10.343 | 0.093 |
| 10/17/2002 | 17:05:26 | 99 | 10.339 | 0.089 |
| 10/17/2002 | 17:05:29 | 102 | 10.337 | 0.087 |
| 10/17/2002 | 17:05:32 | 105 | 10.336 | 0.086 |
| 10/17/2002 | 17:05:35 | 108 | 10.337 | 0.087 |
| 10/17/2002 | 17:05:38 | 111 | 10.336 | 0.086 |
| 10/17/2002 | 17:05:41 | 114 | 10.335 | 0.085 |
| 10/17/2002 | 17:05:44 | 117 | 10.334 | 0.084 |
| 10/17/2002 | 17:05:47 | 120 | 10.332 | 0.082 |
| 10/17/2002 | 17:05:50 | 123 | 10.331 | 0.081 |



MW-5 RISING HEAD TEST

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-5-limited 2nd.aqt
 Date: 02/13/03 Time: 14:49:37

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda, NY
 Test Well: MW-5
 Test Date: 10/17/02

AQUIFER DATA

Saturated Thickness: 2.98 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-5)

Initial Displacement: 0.34 ft Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft
 Screen Length: 10. ft Total Well Penetration Depth: 2.98 ft
 Gravel Pack Porosity: 0.42

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice
 K = 0.001001 cm/sec y0 = 0.5212 ft

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-5-limited 2nd.aqt
 Title: MW-5 Rising Head Test
 Date: 02/13/03
 Time: 14:49:43

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Location: Gowanda, NY
 Test Date: 10/17/02
 Test Well: MW-5

AQUIFER DATA

Saturated Thickness: 2.98 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Initial Displacement: 0.34 ft
 Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft
 Well Skin Radius: 0.333 ft
 Screen Length: 10. ft
 Total Well Penetration Depth: 2.98 ft
 Gravel Pack Porosity: 0.42

No. of observations: 8

| | | Observation Data | | | |
|------------|-------------------|------------------|-------------------|------------|-------------------|
| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0. | 0. | 14. | 0.23 | 20. | 0.179 |
| 10. | 0.336 | 16. | 0.208 | 22. | 0.168 |
| 12. | 0.263 | 18. | 0.192 | | |

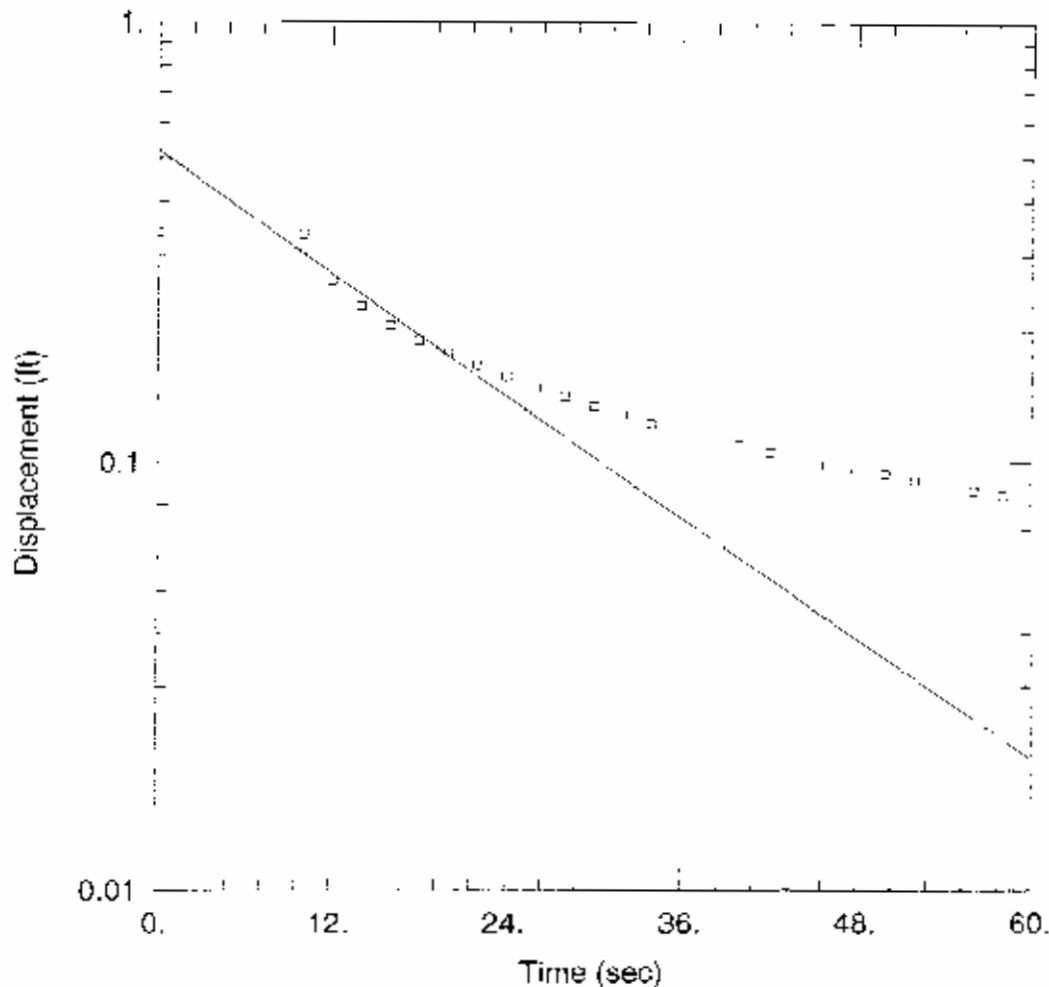
SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTS

Estimated Parameters

| Parameter | Estimate | |
|-----------|----------|--------|
| K | 0.001001 | cm/sec |
| y0 | 0.5212 | ft |



MW-5 RISING HEAD TEST

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-5.aqt
 Date: 02/13/03 Time: 14:47:48

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda, NY
 Test Well: MW-5
 Test Date: 10/17/02

AQUIFER DATA

Saturated Thickness: 2.98 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-5)

Initial Displacement: 0.34 ft Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft
 Screen Length: 10. ft Total Well Penetration Depth: 2.98 ft
 Gravel Pack Porosity: 0.42

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.001001 cm/sec $y_0 = 0.5212$ ft

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-5.aqt

Title: MW-5 Rising Head Test

Date: 02/13/03

Time: 14:47:55

PROJECT INFORMATION

Company: Bergmann Associates

Client: DASNY

Project: 5596.03

Location: Gowanda, NY

Test Date: 10/17/02

Test Well: MW-5

AQUIFER DATA

Saturated Thickness: 2.98 ft

Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Initial Displacement: 0.34 ft

Casina Radius: 0.083 ft

Wellbore Radius: 0.333 ft

Well Skin Radius: 0.333 ft

Screen Length: 10. ft

Total Well Penetration Depth: 2.98 ft

Gravel Pack Porosity: 0.42

No. of observations: 27

| Observation Data | | | | | |
|------------------|-------------------|------------|-------------------|------------|-------------------|
| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0. | 0. | 26. | 0.149 | 44. | 0.103 |
| 10. | 0.336 | 28. | 0.142 | 46. | 0.099 |
| 12. | 0.263 | 30. | 0.135 | 48. | 0.097 |
| 14. | 0.23 | 32. | 0.129 | 50. | 0.094 |
| 16. | 0.208 | 34. | 0.123 | 52. | 0.091 |
| 18. | 0.192 | 36. | 0.119 | 54. | 0.089 |
| 20. | 0.179 | 38. | 0.114 | 56. | 0.086 |
| 22. | 0.168 | 40. | 0.11 | 58. | 0.084 |
| 24. | 0.158 | 42. | 0.106 | 60. | 0.082 |

SOLUTION

Aquifer Model: Unconfined

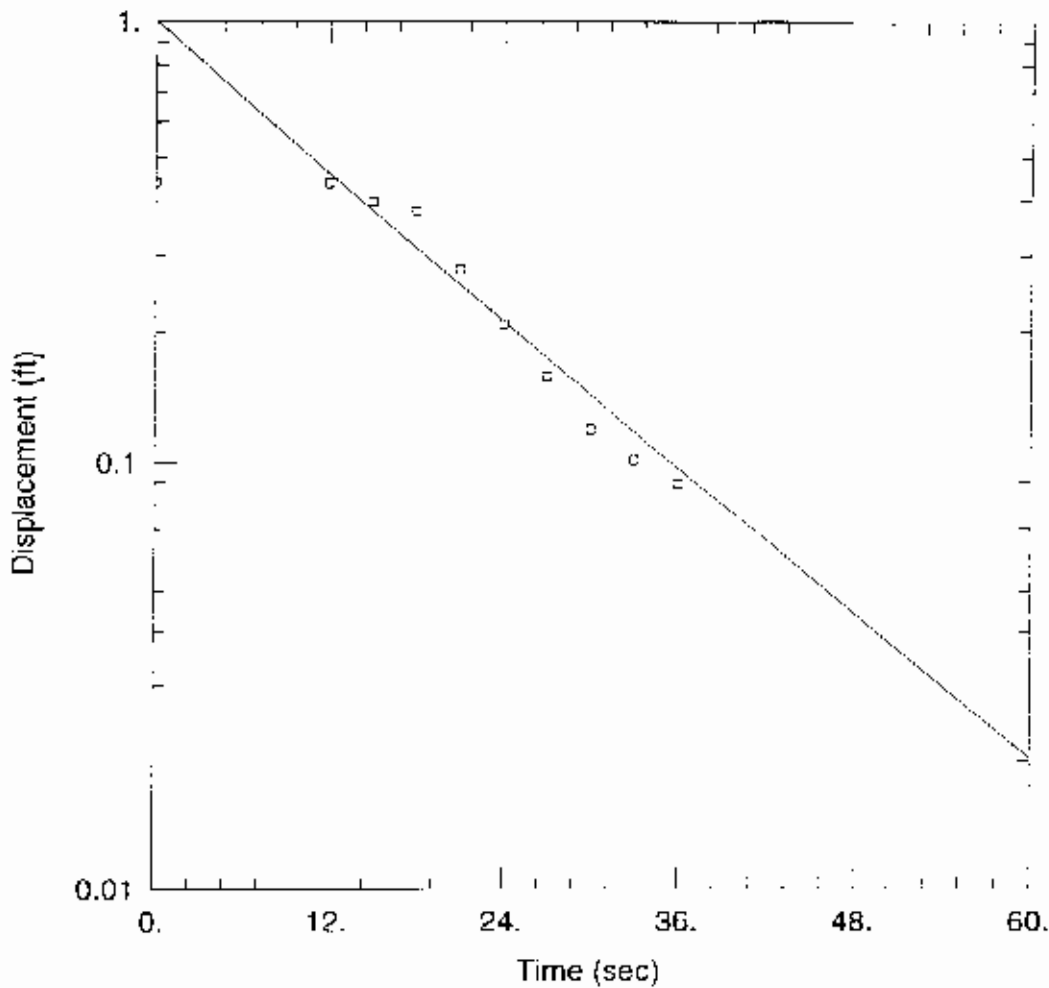
Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTSEstimated Parameters

| Parameter | Estimate | |
|-----------|----------|--------|
| K | 0.001001 | cm/sec |
| y0 | 0.5212 | ft |

MW-5 Rising Head
Initial Water Column:

| Date | Time | 3.13 ET (sec) | ET (min) | Chan[2] Feet H2O | Change |
|------------|----------|------------------|----------|---------------------|--------|
| 10/17/2002 | 18:22:20 | 0 | 0.000 | 3.148 | 0.018 |
| 10/17/2002 | 18:22:22 | 2 | 0.033 | 3.153 | 0.023 |
| 10/17/2002 | 18:22:24 | 4 | 0.067 | 3.314 | 0.184 |
| 10/17/2002 | 18:22:26 | 6 | 0.100 | 3.35 | 0.220 |
| 10/17/2002 | 18:22:28 | 8 | 0.133 | 3.413 | 0.283 |
| 10/17/2002 | 18:22:30 | 10 | 0.167 | 3.466 | 0.336 |
| 10/17/2002 | 18:22:32 | 12 | 0.200 | 3.393 | 0.263 |
| 10/17/2002 | 18:22:34 | 14 | 0.233 | 3.36 | 0.230 |
| 10/17/2002 | 18:22:36 | 16 | 0.267 | 3.338 | 0.208 |
| 10/17/2002 | 18:22:38 | 18 | 0.300 | 3.322 | 0.192 |
| 10/17/2002 | 18:22:40 | 20 | 0.333 | 3.309 | 0.179 |
| 10/17/2002 | 18:22:42 | 22 | 0.367 | 3.298 | 0.168 |
| 10/17/2002 | 18:22:44 | 24 | 0.400 | 3.288 | 0.158 |
| 10/17/2002 | 18:22:46 | 26 | 0.433 | 3.279 | 0.149 |
| 10/17/2002 | 18:22:48 | 28 | 0.467 | 3.272 | 0.142 |
| 10/17/2002 | 18:22:50 | 30 | 0.500 | 3.265 | 0.135 |
| 10/17/2002 | 18:22:52 | 32 | 0.533 | 3.259 | 0.129 |
| 10/17/2002 | 18:22:54 | 34 | 0.567 | 3.253 | 0.123 |
| 10/17/2002 | 18:22:56 | 36 | 0.600 | 3.249 | 0.119 |
| 10/17/2002 | 18:22:58 | 38 | 0.633 | 3.244 | 0.114 |
| 10/17/2002 | 18:23:00 | 40 | 0.667 | 3.24 | 0.110 |
| 10/17/2002 | 18:23:02 | 42 | 0.700 | 3.236 | 0.106 |
| 10/17/2002 | 18:23:04 | 44 | 0.733 | 3.233 | 0.103 |
| 10/17/2002 | 18:23:06 | 46 | 0.767 | 3.229 | 0.099 |
| 10/17/2002 | 18:23:08 | 48 | 0.800 | 3.227 | 0.097 |
| 10/17/2002 | 18:23:10 | 50 | 0.833 | 3.224 | 0.094 |
| 10/17/2002 | 18:23:12 | 52 | 0.867 | 3.221 | 0.091 |
| 10/17/2002 | 18:23:14 | 54 | 0.900 | 3.219 | 0.089 |
| 10/17/2002 | 18:23:16 | 56 | 0.933 | 3.216 | 0.086 |
| 10/17/2002 | 18:23:18 | 58 | 0.967 | 3.214 | 0.084 |
| 10/17/2002 | 18:23:20 | 60 | 1.000 | 3.212 | 0.082 |
| 10/17/2002 | 18:23:22 | 62 | 1.033 | 3.21 | 0.080 |
| 10/17/2002 | 18:23:24 | 64 | 1.067 | 3.209 | 0.079 |
| 10/17/2002 | 18:23:26 | 66 | 1.100 | 3.208 | 0.078 |
| 10/17/2002 | 18:23:28 | 68 | 1.133 | 3.206 | 0.076 |
| 10/17/2002 | 18:23:30 | 70 | 1.167 | 3.205 | 0.075 |
| 10/17/2002 | 18:23:32 | 72 | 1.200 | 3.204 | 0.074 |
| 10/17/2002 | 18:23:34 | 74 | 1.233 | 3.202 | 0.072 |
| 10/17/2002 | 18:23:36 | 76 | 1.267 | 3.201 | 0.071 |
| 10/17/2002 | 18:23:38 | 78 | 1.300 | 3.2 | 0.070 |
| 10/17/2002 | 18:23:40 | 80 | 1.333 | 3.198 | 0.068 |
| 10/17/2002 | 18:23:42 | 82 | 1.367 | 3.197 | 0.067 |
| 10/17/2002 | 18:23:44 | 84 | 1.400 | 3.197 | 0.067 |
| 10/17/2002 | 18:23:46 | 86 | 1.433 | 3.196 | 0.066 |
| 10/17/2002 | 18:23:48 | 88 | 1.467 | 3.196 | 0.066 |
| 10/17/2002 | 18:23:50 | 90 | 1.500 | 3.195 | 0.065 |
| 10/17/2002 | 18:23:52 | 92 | 1.533 | 3.194 | 0.064 |
| 10/17/2002 | 18:23:54 | 94 | 1.567 | 3.193 | 0.063 |



MW-7 FALLING HEAD TEST

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-7-Limited3.aql
 Date: 02/13/03 Time: 14:55:13

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda, NY
 Test Well: MW-7
 Test Date: 10/17/02

AQUIFER DATA

Saturated Thickness: 8.47 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-7)

Initial Displacement: 0.44 ft Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft
 Screen Length: 13 ft Total Well Penetration Depth: 8.47 ft
 Gravel Pack Porosity: 0.42

SOLUTION

Aquifer Model: Unconfined Solution Method: Bower-Rice
 K = 0.001319 cm/sec $y_0 = 1.003$ ft

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-7-Limited3.aqt
 Title: MW-7 Falling Head Test
 Date: 02/13/03
 Time: 14:55:20

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Location: Gowanda, NY
 Test Date: 10/17/02
 Test Well: MW-7

AQUIFER DATA

Saturated Thickness: 8.47 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Initial Displacement: 0.44 ft
 Casina Radius: 0.083 ft
 Wellbore Radius: 0.333 ft
 Well Skin Radius: 0.333 ft
 Screen Length: 13. ft
 Total Well Penetration Depth: 8.47 ft
 Gravel Pack Porosity: 0.42

No. of observations: 10

| | | Observation Data | | | |
|------------|-------------------|------------------|-------------------|------------|-------------------|
| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0. | 0. | 21. | 0.278 | 33. | 0.101 |
| 12. | 0.438 | 24. | 0.208 | 36. | 0.089 |
| 15. | 0.397 | 27. | 0.158 | | |
| 18. | 0.378 | 30. | 0.119 | | |

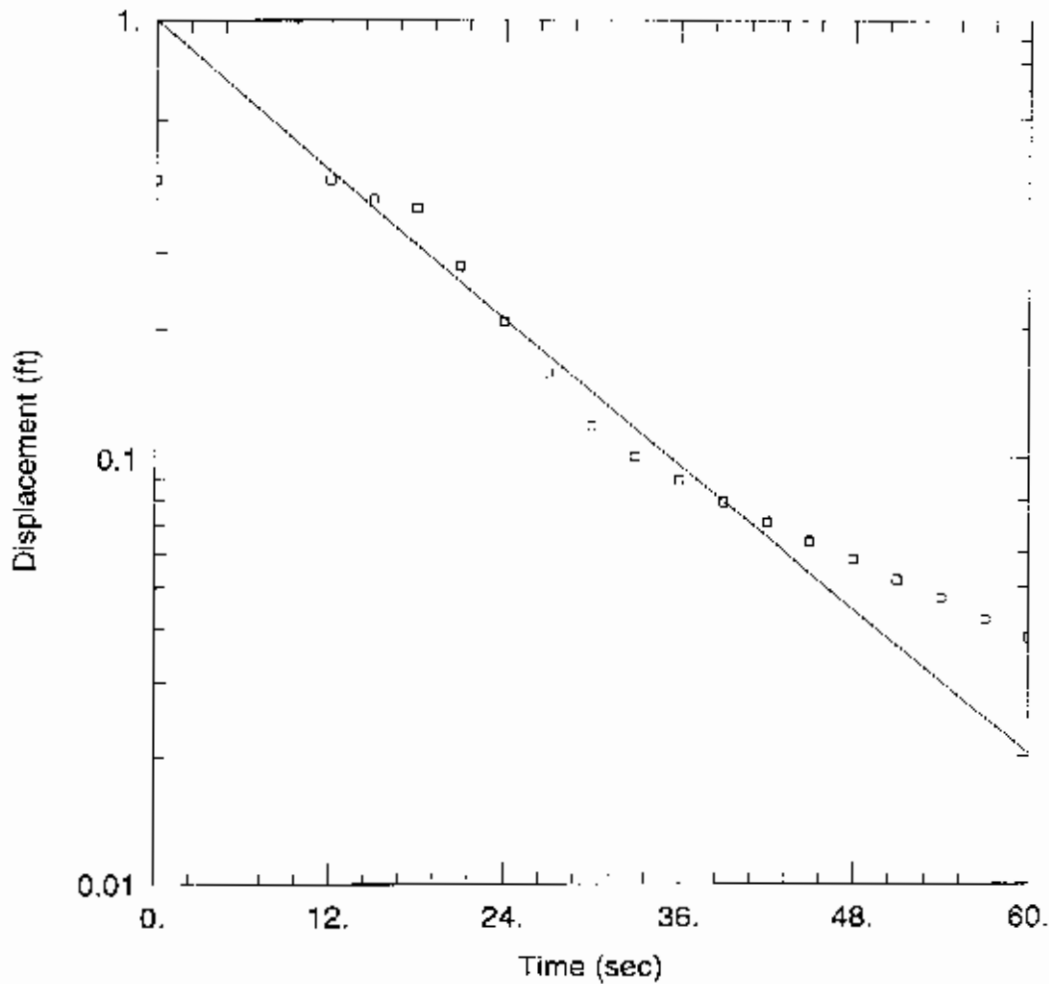
SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTS

Estimated Parameters

| Parameter | Estimate | |
|-----------|----------|--------|
| K | 0.001319 | cm/sec |
| y0 | 1.003 | ft |



MW-7 FALLING HEAD TEST

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-7-Limited.aqt
 Date: 02/13/03 Time: 13:14:59

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda, NY
 Test Well: MW-7
 Test Date: 10/17/02

AQUIFER DATA

Saturated Thickness: 8.47 ft Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW-7)

Initial Displacement: 0.44 ft Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft
 Screen Length: 13. ft Total Well Penetration Depth: 8.47 ft
 Gravel Pack Porosity: 0.42

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 $K = 0.001319$ cm/sec $y_0 = 1.003$ ft

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-7-Limited.aqt
 Title: MW-7 Falling Head Test
 Date: 02/13/03
 Time: 13:15:10

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Location: Gowanda, NY
 Test Date: 10/17/02
 Test Well: MW-7

AQUIFER DATA

Saturated Thickness: 8.47 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Initial Displacement: 0.44 ft
 Casina Radius: 0.083 ft
 Wellbore Radius: 0.333 ft
 Well Skin Radius: 0.333 ft
 Screen Length: 13. ft
 Total Well Penetration Depth: 8.47 ft
 Gravel Pack Porosity: 0.42

No. of observations: 18

| | | Observation Data | | | |
|------------|-------------------|------------------|-------------------|------------|-------------------|
| Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) | Time (sec) | Displacement (ft) |
| 0. | 0. | 27. | 0.158 | 45. | 0.064 |
| 12. | 0.438 | 30. | 0.119 | 48. | 0.058 |
| 15. | 0.397 | 33. | 0.101 | 51. | 0.052 |
| 18. | 0.378 | 36. | 0.089 | 54. | 0.047 |
| 21. | 0.278 | 39. | 0.079 | 57. | 0.042 |
| 24. | 0.208 | 42. | 0.071 | 60. | 0.038 |

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice

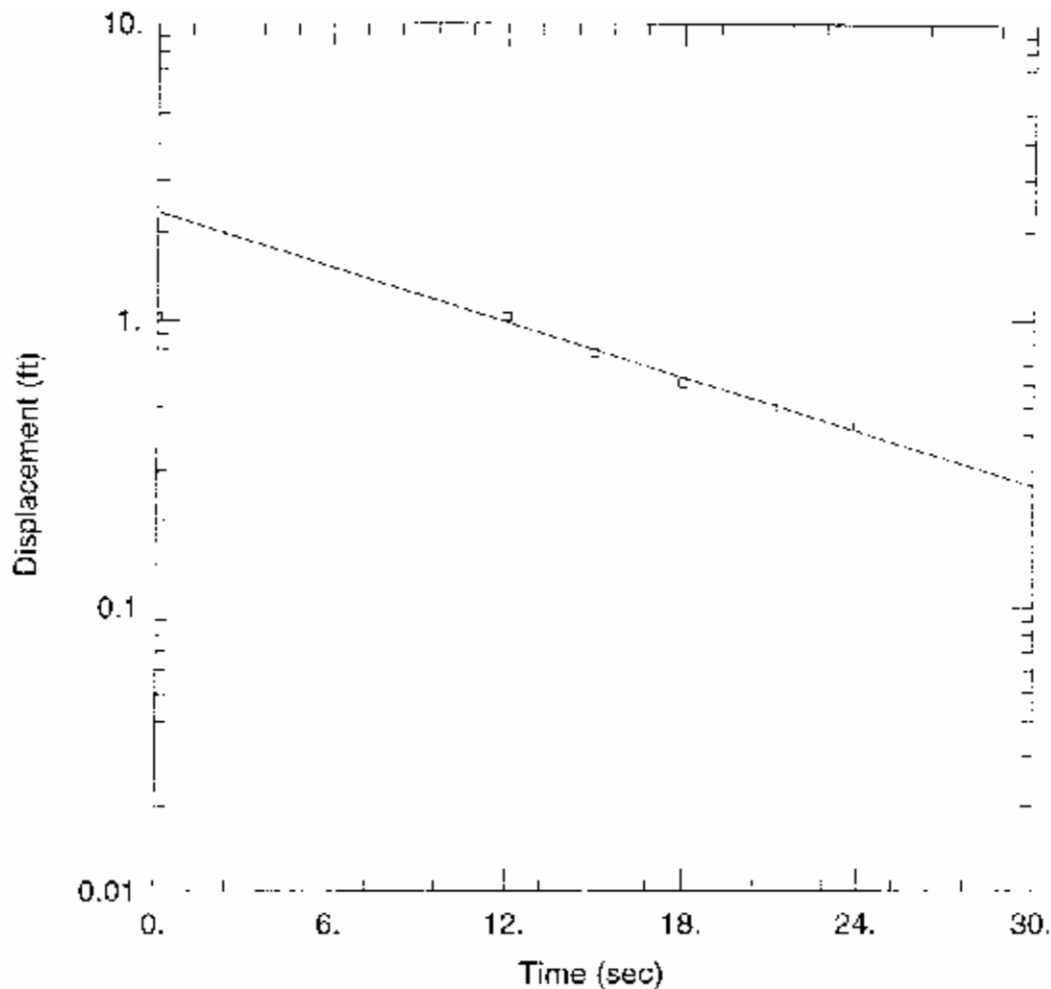
VISUAL ESTIMATION RESULTS

Estimated Parameters

| Parameter | Estimate | |
|-----------|----------|--------|
| K | 0.001319 | cm/sec |
| y0 | 1.003 | ft |

MW-7 Falling Head, Slug Removed

| Date | Initial Water Level Time | 8.13 ET (sec) | Chan[2] ET (min) | Feet H2O | Change in Elev |
|------------|-----------------------------|------------------|---------------------|----------|-------------------|
| 10/17/2002 | 19:20:59 | 0 | | 8.482 | -0.332 |
| 10/17/2002 | 19:21:02 | 3 | | 8.08 | 0.07 |
| 10/17/2002 | 19:21:05 | 6 | | 7.996 | 0.154 |
| 10/17/2002 | 19:21:08 | 9 | | 7.896 | 0.254 |
| 10/17/2002 | 19:21:11 | 12 | | 7.712 | 0.438 |
| 10/17/2002 | 19:21:14 | 15 | | 7.753 | 0.397 |
| 10/17/2002 | 19:21:17 | 18 | | 7.772 | 0.378 |
| 10/17/2002 | 19:21:20 | 21 | | 7.872 | 0.278 |
| 10/17/2002 | 19:21:23 | 24 | | 7.942 | 0.208 |
| 10/17/2002 | 19:21:26 | 27 | | 7.992 | 0.158 |
| 10/17/2002 | 19:21:29 | 30 | | 8.031 | 0.119 |
| 10/17/2002 | 19:21:32 | 33 | | 8.049 | 0.101 |
| 10/17/2002 | 19:21:35 | 36 | | 8.061 | 0.089 |
| 10/17/2002 | 19:21:38 | 39 | | 8.071 | 0.079 |
| 10/17/2002 | 19:21:41 | 42 | | 8.079 | 0.071 |
| 10/17/2002 | 19:21:44 | 45 | | 8.086 | 0.064 |
| 10/17/2002 | 19:21:47 | 48 | | 8.092 | 0.058 |
| 10/17/2002 | 19:21:50 | 51 | | 8.098 | 0.052 |
| 10/17/2002 | 19:21:53 | 54 | | 8.103 | 0.047 |
| 10/17/2002 | 19:21:56 | 57 | | 8.108 | 0.042 |
| 10/17/2002 | 19:21:59 | 60 | | 8.112 | 0.038 |
| 10/17/2002 | 19:22:02 | 63 | | 8.115 | 0.035 |
| 10/17/2002 | 19:22:05 | 66 | | 8.119 | 0.031 |
| 10/17/2002 | 19:22:08 | 69 | | 8.121 | 0.029 |
| 10/17/2002 | 19:22:11 | 72 | | 8.124 | 0.026 |
| 10/17/2002 | 19:22:14 | 75 | | 8.127 | 0.023 |
| 10/17/2002 | 19:22:17 | 78 | | 8.129 | 0.021 |
| 10/17/2002 | 19:22:20 | 81 | | 8.132 | 0.018 |
| 10/17/2002 | 19:22:23 | 84 | | 8.135 | 0.015 |
| 10/17/2002 | 19:22:26 | 87 | | 8.137 | 0.013 |
| 10/17/2002 | 19:22:29 | 90 | | 8.139 | 0.011 |
| 10/17/2002 | 19:22:32 | 93 | | 8.141 | 0.009 |
| 10/17/2002 | 19:22:35 | 96 | | 8.143 | 0.007 |
| 10/17/2002 | 19:22:38 | 99 | | 8.145 | 0.005 |
| 10/17/2002 | 19:22:41 | 102 | | 8.147 | 0.003 |
| 10/17/2002 | 19:22:44 | 105 | | 8.148 | 0.002 |
| 10/17/2002 | 19:22:47 | 108 | | 8.15 | 0 |



MW-9 FALLING HEAD TEST

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-9-Limited.aqt
 Date: 02/13/03 Time: 15:58:06

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda, NY
 Test Well: MW-9
 Test Date: 1-17/02

AQUIFER DATA

Saturated Thickness: 11.88 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-9)

Initial Displacement: 1.03 ft Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft
 Screen Length: 15. ft Total Well Penetration Depth: 11.88 ft
 Gravel Pack Porosity: 0.42

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 K = 0.001403 cm/sec $y_0 = 2.354$ ft

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-9-Limited.aqt

Title: MW-9 Falling Head Test

Date: 02/13/03

Time: 15:58:12

PROJECT INFORMATION

Company: Bergmann Associates

Client: DASNY

Project: 5596.03

Location: Gowanda, NY

Test Date: 1-/17/02

Test Well: MW-9

AQUIFER DATA

Saturated Thickness: 11.88 ft

Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Initial Displacement: 1.03 ft

Casino Radius: 0.083 ft

Wellbore Radius: 0.333 ft

Well Skin Radius: 0.333 ft

Screen Length: 15. ft

Total Well Penetration Depth: 11.88 ft

Gravel Pack Porosity: 0.42

No. of observations: 6

Observation Data

| <u>Time (sec)</u> | <u>Displacement (ft)</u> | <u>Time (sec)</u> | <u>Displacement (ft)</u> | <u>Time (sec)</u> | <u>Displacement (ft)</u> |
|-------------------|--------------------------|-------------------|--------------------------|-------------------|--------------------------|
| 0. | 0. | 15. | 0.775 | 21. | 0.501 |
| 12. | 1.026 | 18. | 0.611 | 24. | 0.429 |

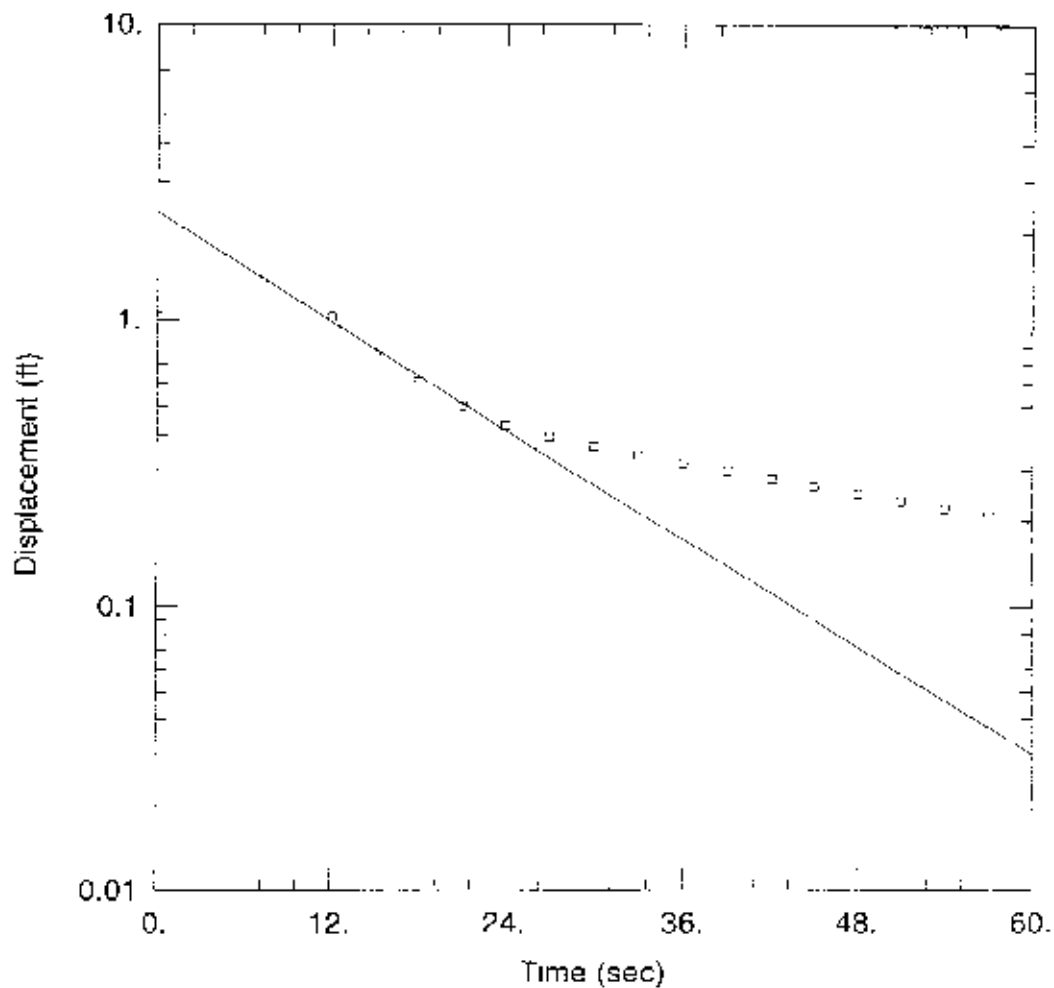
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTSEstimated Parameters

| <u>Parameter</u> | <u>Estimate</u> | |
|------------------|-----------------|--------|
| K | 0.001403 | cm/sec |
| y0 | 2.354 | ft |



MW-9 FALLING HEAD TEST

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-9.aqt
 Date: 02/13/03 Time: 15:56:01

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Test Location: Gowanda, NY
 Test Well: MW-9
 Test Date: 10/17/02

AQUIFER DATA

Saturated Thickness: 11.88 ft Anisotropy Ratio (K_z/K_r): 1

WELL DATA (MW09)

Initial Displacement: 1.03 ft Casing Radius: 0.083 ft
 Wellbore Radius: 0.333 ft Well Skin Radius: 0.333 ft
 Screen Length: 15 ft Total Well Penetration Depth: 11.88 ft
 Gravel Pack Porosity: 0.42

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
 $K = 0.001403$ cm/sec $y_0 = 2.354$ ft

Data Set: C:\Program Files\HydroSOLVE\AQTESOLV for Windows Standard 3.0\MW-9.aqt
 Title: MW-9 Falling Head Test
 Date: 02/13/03
 Time: 15:56:07

PROJECT INFORMATION

Company: Bergmann Associates
 Client: DASNY
 Project: 5596.03
 Location: Gowanda, NY
 Test Date: 10/17/02
 Test Well: MW-9

AQUIFER DATA

Saturated Thickness: 11.88 ft
 Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Initial Displacement: 1.03 ft
 Casino Radius: 0.083 ft
 Wellbore Radius: 0.333 ft
 Well Skin Radius: 0.333 ft
 Screen Length: 15. ft
 Total Well Penetration Depth: 11.88 ft
 Gravel Pack Porosity: 0.42

No. of observations: 18

Observation Data

| <u>Time (sec)</u> | <u>Displacement (ft)</u> | <u>Time (sec)</u> | <u>Displacement (ft)</u> | <u>Time (sec)</u> | <u>Displacement (ft)</u> |
|-------------------|--------------------------|-------------------|--------------------------|-------------------|--------------------------|
| 0. | 0. | 27. | 0.393 | 45. | 0.264 |
| 12. | 1.026 | 30. | 0.364 | 48. | 0.248 |
| 15. | 0.775 | 33. | 0.339 | 51. | 0.234 |
| 18. | 0.611 | 36. | 0.318 | 54. | 0.22 |
| 21. | 0.501 | 39. | 0.299 | 57. | 0.208 |
| 24. | 0.429 | 42. | 0.28 | 60. | 0.195 |

SOLUTION

Aquifer Model: Unconfined
 Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTS

Estimated Parameters

| <u>Parameter</u> | <u>Estimate</u> | |
|------------------|-----------------|--------|
| K | 0.001403 | cm/sec |
| y0 | 2.354 | ft |

MW-9 Falling Head

| Initial WT Date | Elev: Time | 11.27 ET (sec) | Chan[2] Feet H2O | Change Elev. |
|--------------------|---------------|-------------------|---------------------|-----------------|
| 10/17/2002 | 14:49:03 | 0 | 11.082 | 0.118 |
| 10/17/2002 | 14:49:06 | 3 | 10.391 | 0.809 |
| 10/17/2002 | 14:49:09 | 6 | 10.294 | 0.906 |
| 10/17/2002 | 14:49:12 | 9 | 10.309 | 0.891 |
| 10/17/2002 | 14:49:15 | 12 | 10.174 | 1.026 |
| 10/17/2002 | 14:49:18 | 15 | 10.425 | 0.775 |
| 10/17/2002 | 14:49:21 | 18 | 10.589 | 0.611 |
| 10/17/2002 | 14:49:24 | 21 | 10.699 | 0.501 |
| 10/17/2002 | 14:49:27 | 24 | 10.771 | 0.429 |
| 10/17/2002 | 14:49:30 | 27 | 10.807 | 0.393 |
| 10/17/2002 | 14:49:33 | 30 | 10.836 | 0.364 |
| 10/17/2002 | 14:49:36 | 33 | 10.861 | 0.339 |
| 10/17/2002 | 14:49:39 | 36 | 10.882 | 0.318 |
| 10/17/2002 | 14:49:42 | 39 | 10.901 | 0.299 |
| 10/17/2002 | 14:49:45 | 42 | 10.92 | 0.28 |
| 10/17/2002 | 14:49:48 | 45 | 10.936 | 0.264 |
| 10/17/2002 | 14:49:51 | 48 | 10.952 | 0.248 |
| 10/17/2002 | 14:49:54 | 51 | 10.966 | 0.234 |
| 10/17/2002 | 14:49:57 | 54 | 10.98 | 0.22 |
| 10/17/2002 | 14:50:00 | 57 | 10.992 | 0.208 |
| 10/17/2002 | 14:50:03 | 60 | 11.005 | 0.195 |
| 10/17/2002 | 14:50:06 | 63 | 11.016 | 0.184 |
| 10/17/2002 | 14:50:09 | 66 | 11.027 | 0.173 |
| 10/17/2002 | 14:50:12 | 69 | 11.037 | 0.163 |
| 10/17/2002 | 14:50:15 | 72 | 11.046 | 0.154 |
| 10/17/2002 | 14:50:18 | 75 | 11.054 | 0.146 |
| 10/17/2002 | 14:50:21 | 78 | 11.062 | 0.138 |
| 10/17/2002 | 14:50:24 | 81 | 11.069 | 0.131 |
| 10/17/2002 | 14:50:27 | 84 | 11.077 | 0.123 |
| 10/17/2002 | 14:50:30 | 87 | 11.084 | 0.116 |
| 10/17/2002 | 14:50:33 | 90 | 11.091 | 0.109 |
| 10/17/2002 | 14:50:36 | 93 | 11.098 | 0.102 |
| 10/17/2002 | 14:50:39 | 96 | 11.104 | 0.096 |
| 10/17/2002 | 14:50:42 | 99 | 11.11 | 0.09 |
| 10/17/2002 | 14:50:45 | 102 | 11.116 | 0.084 |
| 10/17/2002 | 14:50:48 | 105 | 11.122 | 0.078 |
| 10/17/2002 | 14:50:51 | 108 | 11.127 | 0.073 |
| 10/17/2002 | 14:50:54 | 111 | 11.132 | 0.068 |
| 10/17/2002 | 14:50:57 | 114 | 11.137 | 0.063 |
| 10/17/2002 | 14:51:00 | 117 | 11.142 | 0.058 |
| 10/17/2002 | 14:51:03 | 120 | 11.147 | 0.053 |

Appendix 4:
Validated Laboratory Analytical Results Tables

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, VOLATILE ORGANIC COMPOUNDS**

Boring/Monitoring Well Number, Sample Collection Interval and Sample Date

| VOC Compound | Boring/Monitoring Well Number, Sample Collection Interval and Sample Date | | | | | | | | |
|-----------------------------|---|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-------------------------------------|----------------------------------|
| | B-1/MW-1 2' - 4' 07/30/02 | B-1/MW-1 8' - 10' 07/31/02 | B-2/MW-2 8' - 10' 07/25/02 | B-3/MW-3 8' - 10' 07/12/02 | B-4/MW-4 10' - 12' 07/11/02 | B-5/MW-5 8' - 13' 07/31/02 | B-6/MW-6 18' - 20' 07/30/02 | B-7/MW-7 16' - 17.5' 07/30/02 | B-8/MW-8 9' - 10' 07/24/02 |
| Trichloroethene | 14000 D | 3600 D | 8 | 3 J | ND | 5 | 44 J | 330 D | ND |
| cis-1,2-Dichloroethene | 940 D | 170 | 12 | ND | ND | 7 | 190 | 550 D | ND |
| trans-1,2-Dichloroethene | 10 | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl chloride | ND | 5 J | ND | ND | ND | ND | ND | ND | ND |
| Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Butanone | ND | ND | 10 J | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Disulfide | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cyclohexane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 7.8 ppm (7900 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 1.6 ppm (1600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 8.5 ppm (8500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 0.4 ppm (400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |

Legend

- D = Detected in diluted sample
 - ND = Not Detected
 - J = Estimated concentration
 - B = Detected in Method Blank
 - BDJ = Detected in Method Blank
 - Bold = Concentration above method detection limit
- Page 1 of 10

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, VOLATILE ORGANIC COMPOUNDS**

Boring/Monitoring Well Number, Sample Collection Interval and Sample Date

| VOC Compound | Boring/Monitoring Well Number, Sample Collection Interval and Sample Date | | | | | | | | |
|-------------------------------|---|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-------------------------------------|---------------------------------|
| | B-1/MW-1 2' - 4' 07/30/02 | B-1/MW-1 8' - 10' 07/31/02 | B-2/MW-2 8' - 10' 07/25/02 | B-3/MW-3 8' - 10' 07/12/02 | B-4/MW-4 10' - 12' 07/11/02 | B-5/MW-5 8' - 13' 07/31/02 | B-6/MW-6 18' - 20' 07/30/02 | B-7/MW-7 16' - 17.5' 07/30/02 | B-8/MW-8 9 - 10' 07/24/02 |
| NYSDEC | | | | | | | | | |
| Recommended | | | | | | | | | |
| Cleanup Objective | | | | | | | | | |
| 1,2-Dichloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloropropene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Hexanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Isopropylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl acetate | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl tert butyl ether | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylcyclohexane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Toluene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-t-fluor | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| total Xylenes | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| n-Propylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| P-Cymene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| n-Butylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| sec-Butylbenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Legend

- D = Detected in diluted sample
- ND = Not Detected
- J = Estimated concentration
- B = Detected in Method Blank
- BDJ = Detected in Method Blank
- Bold = Concentration above method detection limit.

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, VOLATILE ORGANIC COMPOUNDS**

Boring/Monitoring Well Number, Sample Collection Interval and Sample Date

| VOC Compound | Boring/Monitoring Well Number, Sample Collection Interval and Sample Date | | | | | | | | | |
|-----------------------------|---|-----------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------|----|--|
| | B-9/MW-9 8' - 10' 07/11/02 | B-10/MW-10 6' - 8' 07/10/02 | B-11/MW-11 9' - 11' 07/17/02 | B-12/MW-12 12' - 14' 07/16/02 | B-13/MW-13 10' - 12' 07/15/02 | B-14/MW-14 10' - 12' 07/18/02 | B-15/MW-15 12' - 14' 07/19/02 | B-16 8' - 10' 07/08/02 | | |
| Trichloroethene | ND | ND | 480 | 3300 | 6 | 79 | 51 | ND | ND | |
| cis-1,2-Dichloroethene | ND | ND | 110 | ND | 3J | 12 | 7J | ND | ND | |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Vinyl chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Acetone | ND | ND | N | ND | ND | ND | ND | ND | ND | |
| Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 2-Butanone | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Carbon Disulfide | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Chloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Chloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Cyclohexane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2-Dibromo-3-chloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Dibromochloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Dichlorodifluoromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2-Dibromoethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,3-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,4-Dichlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2-Dichloroethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | |

Legend

- D = Detected in diluted sample
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- J = Estimated concentration
- B = Detected in Method Blank
- BDJ = Detected in Method Blank
- Bold = Concentration above method detection limit

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, VOLATILE ORGANIC COMPOUNDS**

Boring/Monitoring Well Number, Sample Collection Interval and Sample Date

| VOC Compound | NYSDEC Recommended Cleanup Objective | B-9/MW-9 8' - 10' 07/11/02 | B-10/MW-10 6' - 8' 07/10/02 | B-11/MW-11 9' - 11' 07/17/02 | B-12/MW-12 12' - 14' 07/16/02 | B-13/MW-13 10' - 12' 07/15/02 | B-14/MW-14 10' - 12' 07/18/02 | B-15/MW-15 12' - 14' 07/19/02 | B-16 8' - 10' 07/08/02 |
|---------------------------------------|---|---|--|---|--|--|--|--|---------------------------------------|
| 1,2-Dichloropropane | none | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-Dichloropropene | none | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloropropene | none | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5.5 ppm (5500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Hexanone | none | ND | ND | ND | ND | ND | ND | ND | ND |
| Isopropylbenzene | 5.0 ppm (500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl acetate | none | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | 0.1 ppm (100 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl tert butyl ether | 0.12 ppm (120 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone | 1.0 ppm (1000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylcyclohexane | none | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | none | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 0.6 ppm (600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 1.4 ppm (1400 ppb) | ND | ND | ND | ND | ND | ND | ND | 1 J |
| Toluene | 1.5 ppm (1500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 3.4 ppm (3400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 0.8 ppm (800 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | none | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | none | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | none | ND | ND | ND | ND | ND | ND | ND | ND |
| total Xylenes | 1.2 ppm (1200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| n-Propylbenzene | 14 ppm (14000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| p-Cymene | none | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 13 ppm (13000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 3.3 ppm (3300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND |
| n-Butylbenzene | none | ND | ND | ND | ND | ND | ND | ND | ND |
| sec-Butylbenzene | none | ND | ND | ND | ND | ND | ND | ND | ND |

Legend

- D = Detected in diluted sample
- ND = Not Detected
- J = Estimated concentration
- B = Detected in Method Blank
- BDJ = Detected in Method Blank
- Bold = Concentration above method detection limit

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, VOLATILE ORGANIC COMPOUNDS**

Boying/Monitoring Well Number, Sample Collection Interval and Sample Date

| VOC Compound | B-17 8' - 12' 07/09/02 | B-18 5' - 6' 07/10/02 | B-19 8' - 10' 07/24/02 | B-20 12' - 14' 07/26/02 | B-21 8' - 10' 07/24/02 | B-22 4' - 6' 07/09/02 | B-23 10' - 11' 07/25/02 | B-23D 10' - 11' 07/25/02 | B-24 18' - 20' 07/31/02 |
|-----------------------------|-------------------------------------|------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------|------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|
| VOC Compound | NYSDC | Recommended | Cleanup Objective | | | | | | |
| Trichloroethene | ND | ND | 0.7 ppm (700 ppb) | ND | ND | ND | ND | ND | 910 D |
| cis-1,2-Dichloroethene | ND | ND | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | 700 D |
| trans-1,2-Dichloroethene | ND | ND | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | 3 J |
| Vinyl chloride | ND | ND | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND |
| Acetone | ND | ND | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND |
| Benzene | ND | ND | 0.06 ppm (6 ppb) | ND | ND | ND | ND | ND | ND |
| Bromochloromethane | ND | ND | none | ND | ND | ND | ND | ND | ND |
| Bromoform | ND | ND | none | ND | ND | ND | ND | ND | ND |
| Bromomethane | ND | ND | none | ND | ND | ND | ND | ND | ND |
| 2-Butanone | ND | ND | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | ND | ND | 0.6 ppm (600 ppb) | ND | ND | ND | ND | ND | ND |
| Carbon Disulfide | ND | ND | 2.7 ppm (2700 ppb) | ND | ND | ND | ND | ND | 3 J |
| Chloroethane | ND | ND | none | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | 1.7 ppm (1700 ppb) | ND | ND | ND | ND | ND | ND |
| Chloroethane | ND | ND | 1.9 ppm (1900 ppb) | ND | ND | ND | ND | ND | ND |
| Cyclohexane | ND | ND | none | ND | ND | ND | ND | ND | ND |
| Chloroform | ND | ND | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane | ND | ND | none | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | ND | ND | none | ND | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | ND | ND | none | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane | ND | ND | none | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | ND | ND | 7.9 ppm (7900 ppb) | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | ND | ND | 1.6 ppm (1600 ppb) | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | ND | ND | 8.5 ppm (8500 ppb) | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | ND | ND | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | ND | ND | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | ND | ND | 0.4 ppm (400 ppb) | ND | ND | ND | ND | ND | ND |

Legend

D = Detected in diluted sample

ND = Not Detected

J = Estimated concentration

B = Detected in Method Blank

BDJ = Detected in Method Blank

Bold = Concentration above method detection limit

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, VOLATILE ORGANIC COMPOUNDS**

Boring/Monitoring Well Number, Sample Collection Interval and Sample Date

| VOC Compound | NYSDEC Recommended Cleanup Objective | B-17 8' - 12' 07/09/02 | B-18 5' - 6' 07/10/02 | B-19 8' - 10' 07/24/02 | B-20 12' - 14' 07/28/02 | B-21 8' - 10' 07/24/02 | B-22 4' - 6' 07/09/02 | B-23 10' - 11' 07/25/02 | B-23D 10' - 11' 07/25/02 | B-24 18' - 20' 07/31/02 |
|--------------------------------|--------------------------------------|------------------------------|-----------------------------|------------------------------|-------------------------------|------------------------------|-----------------------------|-------------------------------|--------------------------------|-------------------------------|
| 1,2-Dichloropropane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-Dichloropropene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloropropene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5.5 ppm (5500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Hexanone | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Isopropylbenzene | 5.0 ppm (500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl acetate | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | 0.1 ppm (100 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl tert butyl ether | 0.12 ppm (120 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone | 1.0 ppm (1000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylcyclohexane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 0.6 ppm (600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 1.4 ppm (1400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Toluene | 1.5 ppm (1500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 3.4 ppm (3400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 0.8 ppm (800 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-trifluor | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| total Xylenes | 1.2 ppm (1200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| n-Propylbenzene | 14 ppm (14000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p-Cymene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 13 ppm (13000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 3.3 ppm (3300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| n-Butylbenzene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| sec-Butylbenzene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Legend

- D = Detected in diluted sample
- ND = Not Detected
- J = Estimated concentration
- B = Detected in Method Blank
- BDJ = Detected in Method Blank
- Bold = Concentration above method detection limit

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, VOLATILE ORGANIC COMPOUNDS**

Boiling/Monitoring Well Number, Sample Collection Interval and Sample Date

| VOC Compound | B-25 | | B-25D | | B-26 | | B-27 | | B-28 | | Garden Soil-N | | Garden Soil-S | |
|--------------------------------------|--------------------|----------|----------|----------|--------|----------|-----------|----------|-----------|----------|---------------|----------|---------------|----------|
| | 9' - 11' | 07/23/02 | 9' - 11' | 07/23/02 | 11-12' | 07/23/02 | 12' - 13' | 07/26/02 | 11' - 12' | 07/23/02 | 0'-0.5' | 07/19/02 | 0'-0.5' | 07/19/02 |
| NYSDEC Recommended Cleanup Objective | 0.7 ppm (700 ppb) | 4 J | 11 | 160 | 130 | 6 | 65 | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene | ND | ND | 6 | 28 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl chloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Acetone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromoform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Butanone | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Disulfide | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloromethane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethene | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cyclohexane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | none | none | none | none | none | none | none | none | none | none | none | none | none | none |
| Dichlorodifluoromethane | none | none | none | none | none | none | none | none | none | none | none | none | none | none |
| 1,2-Dibromoethane | none | none | none | none | none | none | none | none | none | none | none | none | none | none |
| 1,2-Dichlorobenzene | 7.9 ppm (7900 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 1.6 ppm (1600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 8.5 ppm (8500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Dichloroethene | 0.4 ppm (400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Legend

- D = Detected in diluted sample
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- J = Estimated concentration
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**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, VOLATILE ORGANIC COMPOUNDS**

| VOC Compound | NYSDEC Recommended Cleanup Objective | Boring/Monitoring Well Number, Sample Collection Interval and Sample Date | | | | | | |
|--------------------------------|--------------------------------------|---|-------------------------------|----------------------------|-------------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| | | B-25 9' - 11' 07/23/02 | B-25D 9' - 11' 07/23/02 | B-26 11-12' 07/23/02 | B-27 12' - 13' 07/26/02 | B-28 11' - 12' 07/23/02 | Garden Soil-N 0'-0.5' 07/19/02 | Garden Soil-S 0'-0.5' 07/19/02 |
| 1,2-Dichloropropane | none | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-Dichloropropene | none | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloropropene | none | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5.5 ppm (5500 ppb) | ND | ND | ND | ND | ND | ND | ND |
| 2-Hexanone | none | ND | ND | ND | ND | ND | ND | ND |
| Isopropylbenzene | 5.0 ppm (500 ppb) | ND | ND | ND | ND | ND | ND | ND |
| Methyl acetate | none | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | 0.1 ppm (100 ppb) | ND | ND | ND | ND | ND | ND | ND |
| Methyl tert butyl ether | 0.12 ppm (120 ppb) | ND | ND | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone | 1.0 ppm (1000 ppb) | ND | ND | ND | ND | ND | ND | ND |
| Methylcyclohexane | none | ND | ND | ND | ND | ND | ND | ND |
| Styrene | none | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 0.6 ppm (600 ppb) | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 1.4 ppm (1400 ppb) | ND | ND | ND | ND | ND | ND | ND |
| Toluene | 1.5 ppm (1500 ppb) | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 3.4 ppm (3400 ppb) | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 0.8 ppm (800 ppb) | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | none | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-trifluor | none | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | none | ND | ND | ND | ND | ND | ND | ND |
| total Xylenes | 1.2 ppm (1200 ppb) | ND | ND | ND | ND | ND | ND | ND |
| n-Propylbenzene | 14 ppm (14000 ppb) | ND | ND | ND | ND | ND | ND | ND |
| p-Cymene | none | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 13 ppm (13000 ppb) | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 3.3 ppm (3300 ppb) | ND | ND | ND | ND | ND | ND | ND |
| n-Butylbenzene | none | ND | ND | ND | ND | ND | ND | ND |
| sec-Butylbenzene | none | ND | ND | ND | ND | ND | ND | ND |

Legend

- D = Detected in diluted sample
- ND = Not Detected
- J = Estimated concentration
- B = Detected in Method Blank
- BDJ = Detected in Method Blank
- Bold = Concentration above method detection limit

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, VOLATILE ORGANIC COMPOUNDS**

Boring/Monitoring Well Number, Sample Collection Interval and Sample Date

| VOC Compound | NYSDEC Recommended | | Field Blank | | Trip Blank | | Field Blank | | Trip Blank | | Field Blank | | Trip Blank | |
|-----------------------------|--------------------|--------|-------------|---------|------------|---------|-------------|--------|------------|---------|-------------|--------|------------|--|
| | Cleanup Objective | B-4 FB | TB | B-15 FB | TB | B-20 FB | TB | B-1 FB | TB | B-20 FB | TB | B-1 FB | TB | |
| Trichloroethene | 0.7 ppm (700 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| cis-1,2-Dichloroethene | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| trans-1,2-Dichloroethene | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Vinyl chloride | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Acetone | 0.2 ppm (200 ppb) | 3 J | 6 BJ | 16 J | ND | 7.7 BJ | 7.8 J | 9.6 J | ND | ND | ND | ND | ND | |
| Benzene | 0.06 ppm (6 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Bromodichloromethane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Bromoform | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Bromomethane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 2-Butanone | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Carbon Tetrachloride | 0.6 ppm (600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Carbon Disulfide | 2.7 ppm (2700 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Chloromethane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Chlorobenzene | 1.7 ppm (1700 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Chloroethane | 1.9 ppm (1900 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Cyclohexane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Chloroform | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2-Dibromo-3-chloropropane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Dibromochloromethane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| Dichlorodifluoromethane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2-Dibromoethane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2-Dichlorobenzene | 7.9 ppm (7900 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,3-Dichlorobenzene | 1.6 ppm (1600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,4-Dichlorobenzene | 8.5 ppm (8500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1-Dichloroethane | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,2-Dichloroethane | 0.3 ppm (300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| 1,1-Dichloroethene | 0.4 ppm (400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | |

Legend

D = Detected in diluted sample

ND = Not Detected

J = Estimated concentration

B = Detected in Method Blank

BDJ = Detected in Method Blank

Bold = Concentration above method detection limit

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**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, VOLATILE ORGANIC COMPOUNDS**

| VOC Compound | Boring/Monitoring Well Number, Sample Collection Interval and Sample Date | | | | | | | | | | | |
|--------------------------------|---|-----------------------------------|------------------------------|------------------------------------|------------------------------|------------------------------------|------------------------------|-----------------------------------|------------------------------|--------|--------|--------|
| | NYSDEC Recommended Cleanup Objective | Field Blank B-4 FB 07/11/02 | Trip Blank TB 07/11/02 | Field Blank B-15 FB 07/19/02 | Trip Blank TB 07/19/02 | Field Blank B-20 FB 07/26/02 | Trip Blank TB 07/26/02 | Field Blank B-1 FB 07/31/02 | Trip Blank TB 07/31/02 | | | |
| 1,2-Dichloropropane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-Dichloropropene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloropropene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5.5 ppm (5500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Hexanone | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Isopropylbenzene | 5.0 ppm (500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl acetate | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | 0.1 ppm (100 ppb) | 3 BJ | 4 BJ | 3 BJ | 4.2 BJ | 3.5 BJ | 2.3 BJ | 2.0 BJ | 1.9 BJ | 1.9 BJ | 1.9 BJ | 1.9 BJ |
| Methyl tert butyl ether | 0.12 ppm (120 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone | 1.0 ppm (1000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylcyclohexane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 0.6 ppm (600 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 1.4 ppm (1400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Toluene | 1.5 ppm (1500 ppb) | ND | ND | ND | ND | 4.8 J | 1.1 BJ | 2.3 J | 2.4 BJ | 2.4 BJ | 2.4 BJ | 2.4 BJ |
| 1,2,4-Trichlorobenzene | 3.4 ppm (3400 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 0.8 ppm (800 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-tr-fluor | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| total Xylenes | 1.2 ppm (1200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| n-Propylbenzene | 14 ppm (14000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p-Cymene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 13 ppm (13000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 3.3 ppm (3300 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| n-Butylbenzene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| sec-Butylbenzene | none | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Legend

- D = Detected in diluted sample
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- J = Estimated concentration
- B = Detected in Method Blank
- BDJ = Detected in Method Blank
- Bold = Concentration above method detection limit

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, SEMI-VOLATILE ORGANIC COMPOUNDS**

| SVOC Compound | Boring/Monitoring Well Number, Sample Collection Interval and Sample Date | | | | | | | | | |
|-----------------------------|---|----------------------------------|------------------------------|-----------------------------|------------------------------|-------------------------------|--|-----------------------------------|--|--|
| | NYSDEC Recommended Cleanup Objective | B-1/MW-1 8' - 10' 07/31/02 | B-17 8' - 12' 07/09/02 | B-21 8 - 10' 07/24/02 | B-25 9' - 11' 07/23/02 | B-25D 9' - 11' 07/23/02 | Garden Soil-N 0' - 0.5' 07/19/02 | Field Blank B-1 FB 07/31/02 | | |
| | | ND | ND | ND | ND | ND | ND | ND | | |
| Acenaphthene | 50 ppm (50000 ppb) | ND | ND | ND | ND | ND | ND | ND | | |
| Acenaphthylene | 41 ppm (41000 ppb) | ND | ND | ND | ND | ND | ND | ND | | |
| Anthracene | 50 ppm (50000 ppb) | ND | ND | ND | ND | ND | ND | ND | | |
| Benzo(a)anthracene | 0.224 ppm (224 ppb) | ND | ND | ND | ND | ND | ND | ND | | |
| Benzo(b)fluoranthrene | 1.1 ppm (1100 ppb) | ND | ND | ND | ND | ND | ND | ND | | |
| Benzo(k)fluoranthrene | 1.1 ppm (1100 ppb) | ND | ND | ND | ND | ND | ND | ND | | |
| Benzo(ghi)perylene | 50 ppm (50000 ppb) | ND | ND | ND | ND | ND | ND | ND | | |
| Benzo(a)pyrene | 0.061 ppm (61 ppb) | ND | ND | ND | ND | ND | ND | ND | | |
| Benzoic acid | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| Benzyl alcohol | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| Bis(2-chloroethoxy) methane | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| Bis(2-chloroethyl) ether | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| 2,2'-Oxbis(1-Chloropropane) | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| Bis(2-ethylhexyl) phthalate | N/A | ND | 2400 | 38 J | ND | ND | ND | ND | | |
| 4-Bromophenyl phenyl ether | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| Butyl benzyl phthalate | N/A | ND | ND | ND | 1700 | 7300 D | ND | ND | | |
| 4-Chloroaniline | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| 4-Chloro-3-methylphenol | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| 2-Chloronaphthalene | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| 2-Chlorophenol | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| 4-Chlorophenyl phenyl ether | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| Chrysene | 0.4 ppm (400 ppb) | 279 J | ND | ND | ND | ND | ND | ND | | |
| Dibenzo(a,h)anthracene | 0.014 ppm (14 ppb) | ND | ND | ND | ND | ND | ND | ND | | |
| Dibenzofuran | N/A | ND | ND | ND | ND | ND | ND | ND | | |
| Di-n-butyl phthalate | 8.1 ppm (8100 ppb) | ND | ND | ND | ND | ND | ND | ND | | |

ND = Not Detected

All results micrograms per kilogram, ug/kg (ppb)

J = Estimated, detected below method detection limit

NA = Not Applicable, no NYSDEC cleanup objective for these compounds

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**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, SEMI-VOLATILE ORGANIC COMPOUNDS**

Boring/Monitoring Well Number, Sample Collection Interval and Sample Date

| <i>SVOC Compound</i> | NYSDEC Recommended Cleanup Objective | B-1/MW-1 8' - 10' 07/31/02 | B-17 8' - 12' 07/09/02 | B-21 8' - 10' 07/24/02 | B-25 9' - 11' 07/23/02 | B-25D 9' - 11' 07/23/02 | Garden Soil-N 0' - 0.5' 07/19/02 | Field Blank B-1 FB 07/31/02 |
|----------------------------|--|----------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|--|-----------------------------------|
| 1,2-Dichlorobenzene | N/A | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | N/A | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | N/A | ND | ND | ND | ND | ND | ND | ND |
| 3,3'-Dichlorobenzidine | N/A | ND | ND | ND | ND | ND | ND | ND |
| 2,4-Dichlorophenol | N/A | ND | ND | ND | ND | ND | ND | ND |
| Diethyl phthalate | N/A | ND | ND | ND | ND | ND | ND | ND |
| 2,4-Dimethylphenol | N/A | ND | ND | ND | ND | ND | ND | ND |
| Dimethyl phthalate | N/A | ND | ND | ND | ND | ND | ND | ND |
| 4,6-Dinitro-2-methylphenol | N/A | ND | ND | ND | ND | ND | ND | ND |
| 2,4-Dinitrophenol | N/A | ND | ND | ND | ND | ND | ND | ND |
| 2,4-Dinitrotoluene | N/A | ND | ND | ND | ND | ND | ND | ND |
| 2,6-Dinitrotoluene | N/A | ND | ND | ND | ND | ND | ND | ND |
| Di-n-octyl phthalate | N/A | ND | ND | ND | ND | ND | ND | ND |
| Fluoranthrene | 50 ppm (50300 ppb) | 700 J | ND | ND | ND | ND | 210 J | ND |
| Fluorene | 50 ppm (50300 ppb) | ND | ND | ND | ND | ND | ND | ND |
| Hexachlorobenzene | 0.41 ppm (410 ppb) | ND | ND | ND | ND | ND | ND | ND |
| Hexachlorobutadiene | N/A | ND | ND | ND | ND | ND | ND | ND |
| Hexachlorocyclopentadiene | N/A | ND | ND | ND | ND | ND | ND | ND |
| Hexachloroethane | N/A | ND | ND | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | 3.2 ppm (3200 ppb) | ND | ND | ND | ND | ND | ND | ND |
| Isophorone | 4.40 ppm (4400 ppb) | ND | ND | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | 36.4 ppm (36400 ppb) | ND | ND | ND | ND | ND | ND | ND |
| 2-Methylphenol | 0.100 ppm (100 ppb) | ND | ND | ND | ND | ND | ND | ND |
| 4-Methylphenol | 0.9 ppm (900 ppb) | ND | ND | ND | ND | ND | ND | ND |
| Naphthalene | 13 ppm (13000 ppb) | ND | ND | ND | ND | ND | ND | ND |

ND = Not Detected

All results micrograms per kilogram, ug/kg (ppb)

J = Estimated, detected below method detection limit

NA = Not Applicable, no NYSDEC cleanup objective for these compounds

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, SEMI-VOLATILE ORGANIC COMPOUNDS**

| SVOC Compound | NYSDEC Recommended Cleanup Objective | Boring/Monitoring Well Number, Sample Collection Interval and Sample Date | | | | | | | | | |
|----------------------------|--|---|------------------------------|------------------------------|------------------------------|-------------------------------|--|-----------------------------------|----|----|----|
| | | B-1/MW-1 8' - 10' 07/31/02 | B-17 8' - 12' 07/09/02 | B-21 8' - 10' 07/24/02 | B-25 9' - 11' 07/23/02 | B-25D 9' - 11' 07/23/02 | Garden Soil-N 0' - 0.5' 07/19/02 | Field Blank B-1 FB 07/31/02 | | | |
| 2-Nitroaniline | 0.43 ppm | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 3-Nitroaniline | 0.500 ppm (500 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Nitroaniline | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Nitrobenzene | 0.2 ppm (200 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Nitrophenol | 0.330 ppm (330 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Nitrophenol | 0.100 ppm (100 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| H-nitrosodiphenylamine | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-Nitroso-Di-n-propylamine | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Pentachlorophenol | 1.0 ppm (1000 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Phenanthrene | 50 ppm (50000 ppb) | 590 J | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Phenol | 0.03 ppm (3 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Pyrene | 50 ppm (50000 ppb) | 480 J | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4,5-Trichlorophenol | 0.1 ppm (100 ppb) | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4,6-Trichlorophenol | N/A | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

ND = Not Detected

All results micrograms per kilogram, ug/kg (ppb)

J = Estimated, detected below method detection limit

NA = Not Applicable, no NYSDEC cleanup objective for these compounds

Page 3 of 3

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, SOIL SAMPLES, PESTICIDES AND HERBICIDES**

Boring/Monitoring Well Number, Sample Collection Interval and Sample Date

| Compound | Recommended NYSDEC Cleanup Objective | B-1/MW-1 8' - 10' 07/31/02 | B-17 8' - 12' 07/09/02 | B-21 8' - 10' 07/24/02 | B-25 9' - 11' 07/23/02 | B-26D 9' - 11' 07/23/02 | Garden Soil-N 0' - 0.5' 07/19/02 |
|-------------------------|--|----------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|--|
| Pesticides, ug/kg (ppb) | | | | | | | |
| Aldrin | 0.041 ppm (41 ppb) | ND | ND R | ND | ND | ND | ND |
| alpha-BHC | 0.11 ppm (110 ppb) | ND | ND R | ND | ND | ND | ND |
| beta-BHC | 0.2 ppm (200 ppb) | ND | ND R | ND | ND | ND | ND |
| gamma-BHC (Lindane) | 0.06 ppm (6 ppb) | ND | ND R | ND | ND | ND | ND |
| delta-BHC | 0.3 ppm (300 ppb) | ND | ND R | ND | ND | ND | ND |
| Chlordane | 0.54 ppm (540 ppb) | ND | ND R | ND | ND | ND | ND |
| 4,4'-DDD | 2.9 ppm (2900 ppb) | ND | ND R | ND | ND | ND | ND |
| 4,4'-DDE | 2.1 ppm (2100 ppb) | ND | ND R | ND | ND | ND | 28 ug/kg |
| 4,4'-DDT | 2.1 ppm (2100 ppb) | ND | ND R | ND | ND | ND | 520 ug/kg |
| Dieldrin | 0.044 ppm (44 ppb) | ND | ND R | ND | MD | ND | 37 ug/kg |
| Endosulfan I | 0.9 ppm (900 ppb) | ND | ND R | ND | ND | ND | ND |
| Endosulfan II | 0.9 ppm (900 ppb) | ND | ND R | ND | ND | ND | ND |
| Endosulfan sulfate | 1.0 ppm (1000 ppb) | ND | ND R | ND | 18 ug/kg J | 13 ug/kg J | ND |
| Endrin | 0.10 ppm (100 ppb) | ND | ND R | ND | ND | ND | ND |
| Endrin aldehyde* | 10 ppm (10,000 ppb) | ND | ND R | ND | ND | ND | ND |
| Heptachlor | 0.10 ppm (100 ppb) | ND | ND R | ND | ND | ND | ND |
| Heptachlor epoxide | 0.02 ppm (20 ppb) | ND | ND R | ND | ND | ND | ND |
| Methoxychlor* | 10 ppm (10,000 ppb) | 6.3 ug/kg J | ND R | ND | 13 ug/kg J | 7.5 ug/kg J | ND |
| Toxaphene* | 10 ppm (10,000 ppb) | ND | ND R | ND | ND | ND | ND |
| Herbicides | | | | | | | |
| 2,4-D | 0.5 ppm (500 ppb) | ND | ND | ND | ND | ND | ND |
| 2,4,5-TP (Silvex) | 0.7 ppm (700 ppb) | ND | ND | ND | ND | ND | ND |
| 2,3,5-T | 1.9 ppm (1900 ppb) | ND | ND | ND | ND | ND | ND |

Values expressed as ug/kg = ppb unless otherwise noted

ND = Not Detected

R = Data rejected during validation

J or E = Estimated, detected below method detection limit

B = Detected in Method Blank

* Endrin aldehyde, Methoxychlor and Toxaphene values are for Total Pesticides <10 ppm

Herbicides analysis on the B-1/MW-1 sample was collected from the 2' - 4' interval

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY ON SOIL SAMPLES, PCBs**

| PCB, ug/kg (PPB) Compound | Recommended NYSDEC Cleanup Objective* | Boring/Monitoring Well Number, Sample Collection Interval and Sample Date | | | | | |
|---------------------------------|---|---|------------------------------|------------------------------|------------------------------|-------------------------------|--|
| | | B-1/MW-1 8' - 10' 07/31/02 | B-17 8' - 12' 07/09/02 | B-21 6' - 10' 07/24/02 | B-25 9' - 11' 07/23/02 | B-25D 9' - 11' 07/23/02 | Garden Soil-N 0' - 0.5' 07/19/02 |
| PCB Aroclor 1016 | 10 ppm (10,000 ppb) | ND, <90 | ND, <20 | ND, <19 | ND, <18 | ND, <20 | ND, <18 |
| PCB Aroclor 1221 | 10 ppm (10,000 ppb) | ND, <90 | ND, <20 | ND, <19 | ND, <18 | ND, <20 | ND, <18 |
| PCB Aroclor 1232 | 10 ppm (10,000 ppb) | ND, <90 | ND, <20 | ND, <19 | ND, <18 | ND, <20 | ND, <18 |
| PCB Aroclor 1242 | 10 ppm (10,000 ppb) | ND, <90 | ND, <20 | ND, <19 | ND, <18 | ND, <20 | ND, <18 |
| PCB Aroclor 1248 | 10 ppm (10,000 ppb) | ND, <90 | ND, <20 | ND, <19 | ND, <18 | ND, <20 | ND, <18 |
| PCB Aroclor 1254 | 10 ppm (10,000 ppb) | ND, <90 | ND, <20 | ND, <19 | ND, <18 | ND, <20 | 40 ppb |
| PCB Aroclor 1260 | 10 ppm (10,000 ppb) | ND, <90 | ND, <20 | ND, <19 | ND, <18 | ND, <20 | ND, <18 |

Results expressed as ug/kg = ppb unless otherwise noted
 *10 ppm is the NYSDEC Cleanup Objective for subsurface soil
 The surface soil cleanup objective is 1.0 ppm (1,000 ppb)
 ND = Not Detected
 D = Concentration detected in diluted sample
 J or E = Estimated, detected below method detection limit
 B = Detected in Method Blank
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**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY ON SOIL SAMPLES, METALS AND CYANIDE**

| | | Boring/Monitoring Well Number, Sample Collection Interval and Sample Date | | | | | | |
|----------------------------------|---|---|----------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|--|
| Metals, Total, Mg/Kg (ppm) | Recommended NYSDEC Cleanup Objective, ppm | Eastern USA Background Range, ppm | B-1/MW-1 8' - 10' 07/31/02 | B-17 8' - 12' 07/09/02 | B-21 8' - 10' 07/24/02 | B-25 9' - 11' 07/23/02 | B-25D 9' - 11' 07/23/02 | Garden Soil-N 0' - 0.5' 07/19/02 |
| Aluminum | SB | 33,000 | 6,630 ND, < 4 J | 6,760 ND, < 11.4 J | 7,890 ND, < 10.8 J | 6,380 ND, < 11.6 J | 7,140 ND, < 11.8 J | 8,020 ND, < 10.8 |
| Antimony | SB | N/A | 4.4 | 7.6 | 8.3 | 29.8 | 25 | 7.8 |
| Arsenic | 7.5 or SB | 3-12 | 45.2 | 76 J | 59.2 J | 128 J | 171 J | 105 |
| Barium | 300 or SB | 15-600 | 0.39 B | ND, < 0.57 | ND, 0.54 | ND, < 0.58 | ND, < 0.59 | ND, < 0.54 |
| Beryllium | 0.16 or SB | 0-1.75 | ND, < 0.03 | ND, < 0.57 | ND, < 0.54 | ND, < 0.58 | ND, < 0.59 | ND, < 0.54 |
| Cadmium | 1 or SB | 0-1.1 | 10,800 E J | 1,200 | 6,240 | 14,700 | 6,290 | 5,210 |
| Calcium | SB | 130-35,000 | 10.4 E J | 10.1 | 11 | 9.5 | 10.7 | 39.6 |
| Chromium | 10 or SB | 1.5-40 | 6.3 E J | 7.3 | 6.8 | 8.8 | 10.1 | 7.8 |
| Cobalt | 30 or SB | 2.5-60 | 20.3 | 24.6 | 21.7 | 18.2 | 19.2 | 38.4 |
| Copper | 25 or SB | 1-60 | 11.1 | 12.4 | 8.1 | 9.9 | 9.9 | 22 |
| Iron | 2,000 or SB | 2,000-550,000 | 15,600 E J | 18,600 | 22,000 | 40,700 | 41,000 | 22,100 |
| Lead | SB | rural, 4-61 ppm | 3,370 | 2,440 | 4,560 | 3,300 | 4,850 | 3,230 |
| Magnesium | SB | 100-5,000 | 198 J | 758 | 194 | 684 | 826 | 596 |
| Manganese | SB | 50-5,000 | ND, < 0.005 | ND, < 0.12 | ND, < 0.022 | ND, < 0.023 | ND, < 0.025 | ND, < 0.10 |
| Mercury | 0.1 | 0.001-0.2 | 17.3 J | 18 | 17 | 15.8 | 19.1 | 25.8 |
| Nickel | 13 or SB | 0.5-25 | 1,060 | 720 J | 1,110 J | 991 J | 1,030 J | 952 |
| Potassium | SB | 8,500-43,000 | ND, < 0.45 | ND, < 3.4 | ND, < 3.2 | ND, < 3.5 | ND, < 3.6 | ND, < 3.2 |
| Selenium | 2 or SB | 0.1-3.9 | 0.06 B | ND, < 1.1 | ND, < 1.1 | ND, < 1.2 | ND, < 1.2 | ND, < 1.1 |
| Silver | SB | N/A | 66.2 | ND, < 114 | ND, < 108 | ND, < 116 | ND, < 118 | ND, < 108 |
| Sodium | SB | 6,000-8,000 | ND, < 0.44 | ND, < 6.9 | ND, < 6.5 | ND, < 6.9 | ND, < 7.1 | ND, < 6.5 |
| Thallium | SB | N/A | 15.0 | 10.8 | 12.2 | 9.8 | 10.9 | 13.1 |
| Vanadium | 150 SB | 1-300 | 62.4 J | 76.6 J | 82.9 J | 77.8 J | 91.8 J | 82.2 |
| Zinc | 20 or SB | 9-50 | ND, < 0.5 | ND, < 0.5-R | ND, < 0.5-R | ND, < 0.5-R | ND, < 0.5-R | ND, < 0.50-R |
| Cyanide, total, ug/g | N/A | N/A | | | | | | |

SB = Site Background
Values are expressed as mg/Kg = ppm unless otherwise noted

ND = Not Detected

R = Data rejected during validation

J or E = Estimated, detected below method detection limit

B = Detected in Method Blank

Cyanide analysis on the B-1/MW-1 sample was collected from the 2' - 4' interval

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**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES, VOLATILE ORGANIC COMPOUNDS**

Groundwater Monitoring Well and Sample Date

| VOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | MW-1 09/04/02 | MW-1D 09/04/02 | MW-2 08/28/02 | MW-3 08/28/02 | MW-4 08/28/02 | MW-5 08/28/02 | MW-6 08/29/02 | MW-7 08/29/02 | MW-7D 08/29/02 |
|-----------------------------------|---|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| Trichloroethene | 5.0 ug/L | 380 | 320 | 4.7J | 2.3J | 1.8J | 12 | 2.4J | 26 | 23 |
| cis-1,2-Dichloroethene | 5.0 ug/L | 380 | 300 | 18 | 9.6 | 2.0J | 1.7J | 400 | 420 | 380 |
| trans-1,2-Dichloroethene | 5.0 ug/L | 4J | 4.0J | ND | ND | ND | ND | 3.4J | ND | 2.1J |
| Vinyl chloride | 2.0 ug/L | 4J | 3.2J | ND | 3.1J | ND | ND | ND | 4J | 3.3J |
| Acetone | 25.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzene | 1.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromoform | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Disulfide | 60.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloromethane (methyl chloride) | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cyclohexane (hexamethylene) | none | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | 7.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane | 0.04 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane (ethylene dibro | 6 x 10 ⁻⁴ ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.6 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 1.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND | ND |

Legend

- All results ug/L
- ND = Not Detected
- J = Estimated
- B = Detected Below Method Detection Limits
- BDJ = Detected in Method blank
- Bold = Exceed NYSDEC Class GA Standard**

GOWANDA DAY HABILITATION CENTER
 VOLUNTARY CLEANUP INVESTIGATION V-00463-9
 LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES, VOLATILE ORGANIC COMPOUNDS

Groundwater Monitoring Well and Sample Date

| VOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | MW-1 09/04/02 | MW-2 08/28/02 | MW-3 08/28/02 | MW-4 08/28/02 | MW-5 08/28/02 | MW-6 08/29/02 | MW-7 08/29/02 | MW-7D 08/29/02 |
|---------------------------------------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|
| cis-1,3-Dichloropropene | 0.4 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 0.4 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Hexanone | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Isopropylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl acetate | none | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene chloride | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl tert butyl ether | 10.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone | none | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylcyclohexane | NA: Not Listed | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Toluene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 1.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| N-Propylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| p-Cymene (4-Isopropyltoluene) | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| N-Butylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| sec-Butylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |

Legend

- All results ug/L
- ND = Not Detected
- J = Estimated
- B = Detected Below Method Detection Limits
- BDJ = Detected in Method blank
- Bold** = Exceed NYSDEC Class GA Standard

GOWANDA DAY HABILITATION CENTER
 VOLUNTARY CLEANUP INVESTIGATION V-00463-9
 LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES, VOLATILE ORGANIC COMPOUNDS

Groundwater Monitoring Well and Sample Date

| VOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | MW-8 08/28/02 | MW-9 08/28/02 | MW-10 08/28/02 | MW-11 08/29/02 | MW-12 08/29/02 | MW-13 08/28/02 | MW-14 08/29/02 | MW-15 08/29/02 |
|-----------------------------------|---|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Trichloroethene | 5.0 ug/L | 1.4 J | 4.2 J | 2.6 J | 2300 | 9600 | 250 | 180 | 320 |
| cis-1,2-Dichloroethene | 5.0 ug/L | ND | ND | ND | 2300 | 3000 | 69 | 130 | 360 |
| trans-1,2-Dichloroethene | 5.0 ug/L | ND | ND | ND | 16 | 28 | 1.3 J | 1.6 J | ND |
| Vinyl chloride | 2.0 ug/L | ND | ND | ND | 31 | 15 | ND | 3.6 J | ND |
| Acetone | 25.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzene | 1.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromoforn | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Disulfide | 60.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloromethane (methyl chloride) | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Cyclohexane (hexamethylene) | none | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | 7.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane | 0.04 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Dichlorodifluoromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane (ethylene dibro | 6 x 10 ⁻⁴ ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 3.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 0.6 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 5.0 ug/L | ND | ND | ND | 3.1 J | 8.3 | ND | ND | ND |
| 1,2-Dichloropropane | 1.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |

Legend

- All results ug/L
- ND = Not Detected
- J = Estimated
- B = Detected Below Method Detection Limits
- BDJ = Detected in Method blank
- Bold = Exceed NYSDEC Class GA Standard**

GOWANDA DAY HABILITATION CENTER
 VOLUNTARY CLEANUP INVESTIGATION V-00463-9
 LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES, VOLATILE ORGANIC COMPOUNDS

Groundwater Monitoring Well and Sample Date

| VOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | MW-8 08/28/02 | MW-9 08/28/02 | MW-10 08/28/02 | MW-11 08/29/02 | MW-12 08/29/02 | MW-13 08/28/02 | MW-14 08/29/02 | MW-15 08/28/02 |
|---------------------------------------|---|------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| cis-1,3-Dichloropropene | 0.4 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 0.4 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Hexanone | 50.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Isopropylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl acetate | none | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene chloride | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Methyl tert butyl ether | 10.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone | none | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylcyclohexane | NA: Not Listed | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 5.0 ug/L | ND | ND | ND | ND | 1.0 J | ND | ND | ND |
| Toluene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 1.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 6.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| N-Propylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| p-Cymene (4-Isopropyltoluene) | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| N-Butylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| sec-Butylbenzene | 5.0 ug/L | ND | ND | ND | ND | ND | ND | ND | ND |

Legend

- All results ug/L
- ND = Not Detected
- J = Estimated
- B = Detected Below Method Detection Limits
- BDJ = Detected in Method blank
- Bold = Exceed NYSDEC Class GA Standard**

GOWANDA DAY HABILITATION CENTER
 VOLUNTARY CLEANUP INVESTIGATION V-00463-9
 LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES, VOLATILE ORGANIC COMPOUNDS

Groundwater Monitoring Well and Sample Date

| VOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | Field Blank MW-1 FB 08/29/02 | Trip Blank 08/29/02 | Trip Blank 09/04/02 |
|--|---|------------------------------------|------------------------|------------------------|
| Trichloroethene | 5.0 ug/L | ND | ND | ND |
| cis-1,2-Dichloroethene | 5.0 ug/L | ND | ND | ND |
| trans-1,2-Dichloroethene | 5.0 ug/L | ND | ND | ND |
| Vinyl chloride | 2.0 ug/L | ND | ND | ND |
| Acetone | 25.0 ug/L | ND | ND | 5.5 BJ |
| Benzene | 1.0 ug/L | ND | ND | ND |
| Bromodichloromethane | 50.0 ug/L | ND | ND | ND |
| Bromoform | 50.0 ug/L | ND | ND | ND |
| Bromomethane | 5.0 ug/L | ND | ND | ND |
| 2-Butanone (MEK) | 50.0 ug/L | ND | ND | ND |
| Carbon Disulfide | 60.0 ug/L | ND | ND | ND |
| Carbon Tetrachloride | 5.0 ug/L | ND | ND | ND |
| Chloromethane (methyl chloride) | 5.0 ug/L | ND | ND | ND |
| Chlorobenzene | 5.0 ug/L | ND | ND | ND |
| Chloroethane | 5.0 ug/L | ND | ND | ND |
| Cyclohexane (hexamethylene) | none | ND | ND | ND |
| Chloroform | 7.0 ug/L | ND | ND | ND |
| 1,2-Dibromo-3-chloropropane | 0.04 ug/L | ND | ND | ND |
| Dibromochloromethane | 5.0 ug/L | ND | ND | ND |
| Dichlorodifluoromethane | 5.0 ug/L | ND | ND | ND |
| 1,2-Dibromoethane (ethylene dibromide) | 6 x 10-4 ug/L | ND | ND | ND |
| 1,2-Dichlorobenzene | 3.0 ug/L | ND | ND | ND |
| 1,3-Dichlorobenzene | 3.0 ug/L | ND | ND | ND |
| 1,4-Dichlorobenzene | 3.0 ug/L | ND | ND | ND |
| 1,1-Dichloroethane | 5.0 ug/L | ND | ND | ND |
| 1,2-Dichloroethane | 0.6 ug/L | ND | ND | ND |
| 1,1-Dichloroethene | 5.0 ug/L | ND | ND | ND |
| 1,2-Dichloropropane | 1.0 ug/L | ND | ND | ND |

Legend

- All results ug/L
- ND = Not Detected
- J = Estimated
- B = Detected Below Method Detection Limits
- BDJ = Detected in Method blank
- Bold** = Exceed NYSDEC Class GA Standard

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP INVESTIGATION V-00463-9
LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES, VOLATILE ORGANIC COMPOUNDS**

Groundwater Monitoring Well and Sample Date

| VOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | Groundwater Monitoring Well and Sample Date | | |
|---------------------------------------|---|---|------------------------|------------------------|
| | | Field Blank MW-1 FB 08/29/02 | Trip Blank 08/29/02 | Trip Blank 09/04/02 |
| cis-1,3-Dichloropropene | 0.4 ug/L | ND | ND | ND |
| trans-1,3-Dichloropropene | 0.4 ug/L | ND | ND | ND |
| Ethylbenzene | 5.0 ug/L | ND | ND | ND |
| 2-Hexanone | 50.0 ug/L | ND | ND | ND |
| Isopropylbenzene | 5.0 ug/L | ND | ND | ND |
| Methyl acetate | none | ND | ND | ND |
| Methylene chloride | 5.0 ug/L | 2.4 BJ | ND | 2.7 BJ |
| Methyl tert butyl ether | 10.0 ug/L | ND | ND | ND |
| 4-Methyl-2-pentanone | none | ND | ND | ND |
| Methylcyclohexane | NA: Not Listed | ND | ND | ND |
| Styrene | 5.0 ug/L | ND | ND | ND |
| 1,1,2-Tetrachloroethane | 5.0 ug/L | ND | ND | ND |
| Tetrachloroethene | 5.0 ug/L | ND | ND | ND |
| Toluene | 5.0 ug/L | ND | ND | 2.1 BJ |
| 1,2,4-Trichlorobenzene | 5.0 ug/L | ND | ND | ND |
| 1,1,1-Trichloroethane | 5.0 ug/L | ND | ND | ND |
| 1,1,2-Trichloroethane | 1.0 ug/L | ND | ND | ND |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 ug/L | ND | ND | ND |
| Trichlorofluoromethane | 5.0 ug/L | ND | ND | ND |
| Total Xylenes | 5.0 ug/L | ND | ND | ND |
| N-Propylbenzene | 5.0 ug/L | ND | ND | ND |
| p-Cymene (4-Isopropyltoluene) | 5.0 ug/L | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 5.0 ug/L | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 5.0 ug/L | ND | ND | ND |
| N-Butylbenzene | 5.0 ug/L | ND | ND | ND |
| sec-Butylbenzene | 5.0 ug/L | ND | ND | ND |

Legend

All results ug/L

ND = Not Detected

J = Estimated

B = Detected Below Method Detection Limits

BDJ = Detected in Method blank

Bold = Exceed NYSDEC Class GA Standard

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**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-000463-9
LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES, SEMI-VOLATILE ORGANIC COMPOUNDS**

| SVOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | Method Detection Limit | MW-1 09/04/02 | MW-1D 09/04/02 | MW-6 08/29/02 | MW-12 08/29/02 | Field Blank MW-1 FB 08/29/02 |
|-----------------------------|---|------------------------------|------------------|-------------------|------------------|-------------------|------------------------------------|
| Acenaphthene | 20 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| Acenaphthylene | none | 10 ug/L | ND | ND | ND | ND | ND |
| Anthracene | 50 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| Benzo(a)anthracene | 0.002 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| Benzo(b)fluoranthrene | 0.002 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| Benzo(k)fluoranthrene | 0.002 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| Benzo(ghi)perylene | none | 10 ug/L | ND | ND | ND | ND | ND |
| Benzo(a)pyrene | Non Detectable | 10 ug/L | ND | ND | ND | ND | ND |
| Benzoic acid | none | 48 ug/L | ND | ND | ND | ND | ND |
| Benzyl alcohol | none | 19 ug/L | ND | ND | ND | ND | ND |
| Bis(2-chloroethoxy) methane | 5.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| Bis(2-chloroethyl) ether | 1.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 2,2'-Oxbis(1-Chloropropane) | not listed | 10 ug/L | ND | ND | ND | ND | ND |
| Bis(2-ethylhexyl) phthalate | 5.0 ug/L | 10 ug/L | ND | 2 J | 6 J | 12 | ND |
| 4-Bromophenyl phenyl ether | none | 10 ug/L | ND | ND | ND | ND | ND |
| Butyl benzyl phthalate | 50.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 4-Chloroaniline | 5.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 4-Chloro-3-methylphenol | 1.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 2-Chloronaphthalene | 10.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| 2-Chlorophenol | 1.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 4-Chlorophenyl phenyl ether | none | 10 ug/L | ND | ND | ND | ND | ND |
| Chrysene | 0.002 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| Dibenzo(a,h)anthracene | none | 10 ug/L | ND | ND | ND | ND | ND |
| Dibenzofuran | none | 10 ug/L | ND | ND | ND | ND | ND |
| Di-n-butyl phthalate | 50.0 ug/L | 10 ug/L | ND | ND | ND | ND | 0.7 J |
| 1,2-Dichlorobenzene | 3.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 3.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 3.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 3,3'-Dichlorobenzidine | 5.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 2,4-Dichlorophenol | 5.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| Diethyl phthalate | 50.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| 2,4-Dimethylphenol | 50.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| Dimethyl phthalate | 50.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |

ND = Not Detected J = Estimated
All results ug/L (ppb)
Page 1 of 2

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-000463-9
LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES, SEMI-VOLATILE ORGANIC COMPOUNDS**

| SVOC Compound | NYSDEC Class GA Standard TOGS 1.1.1 | Method Detection Limit | MW-1 09/04/02 | MW-1D 09/04/02 | MW-6 08/29/02 | MW-12 08/29/02 | Field Blank MW-1 FB 08/29/02 |
|----------------------------|--|---------------------------------------|--------------------------|---------------------------|--------------------------|---------------------------|---|
| 4,6-Dinitro-2-methylphenol | 1.0 ug/L | 48 ug/L;24 ug/L for ASP | ND | ND | ND | ND | ND |
| 2,4-Dinitrophenol | 10.0 ug/L (guidance) | 48 ug/L;24 ug/L for ASP | ND | ND | ND | ND | ND |
| 2,4-Dinitrotoluene | 5.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 2,6-Dinitrotoluene | 5.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| Di-n-octyl phthalate | 50.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| Fluoranthrene | 50.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| Fluorene | 50.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| Hexachlorobenzene | 0.04 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| Hexachlorobutadiene | 0.5 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| Hexachlorocyclopentadiene | 50 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| Hexachloroethane | 5.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| Indeno(1,2,3-cd)pyrene | 0.002 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| Isophorone | 50.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | 4.7 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 2-Methylphenol | 1.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 4-Methylphenol | 1.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| Naphthalene | 10.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| 2-Nitroaniline | 5.0 ug/L | 48 ug/L;24 ug/L for ASP | ND | ND | ND | ND | ND |
| 3-Nitroaniline | 5.0 ug/L | 48 ug/L;24 ug/L for ASP | ND | ND | ND | ND | ND |
| 4-Nitroaniline | 5.0 ug/L | 48 ug/L;24 ug/L for ASP | ND | ND | ND | ND | ND |
| Nitrobenzene | 0.4 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 2-Nitrophenol | 1.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 4-Nitrophenol | 1.0 ug/L | 48 ug/L;24 ug/L for ASP | ND | ND | ND | ND | ND |
| N-Nitrosodiphenylamine | 50.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| N-Nitroso-Di-n-propylamine | none | 10 ug/L | ND | ND | ND | ND | ND |
| Pentachlorophenol | 1.0 ug/L | 48 ug/L;24 ug/L for ASP | ND | ND | ND | ND | ND |
| Phenanthrene | 50.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| Phenol | 1.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| Pyrene | 50.0 ug/L (guidance) | 10 ug/L | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene | 5.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 2,4,5-Trichlorophenol | 1.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |
| 2,4,6-Trichlorophenol | 1.0 ug/L | 10 ug/L | ND | ND | ND | ND | ND |

ND = Not Detected J = Estimated
All results ug/L (ppb)
Page 2 of 2

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-000463-9
LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES, METALS**

Groundwater Monitoring Well and Sample Date

| Metals, ug/L (ppb) | NYSDEC Class GA Standard TOGS 1.1.1 | Maximum Reporting Limit | MW-1 09/04/02 | MW-1D 09/04/02 | MW-6 08/29/02 | MW-12 08/29/02 | Field Blank MW-1 FB 08/29/02 |
|---------------------------|--|------------------------------------|---------------------------|---------------------------|--------------------------|---------------------------|---|
| Aluminum | none established | 0.20 mg/L | 33.1 ug/L (0.0331 mg/L) J | 0.32 mg/L-J | 3.8 mg/L | ND | ND |
| Antimony | 3 ug/L | 0.020 mg/L | ND, <2.2 ug/L | ND | ND | ND | ND |
| Arsenic | 25 ug/L | 0.0070 mg/L | 2.8 ug/L B | ND | ND | ND | ND |
| Barium | 1,000 ug/L | 0.0010 mg/L | 342 ug/L (432 mg/L) | 0.32 mg/L | 0.58 mg/L | 0.40 mg/L | 0.0010 mg/L |
| Beryllium | 3 ug/L | 0.0050 mg/L | ND, <0.30 mg/L | ND | ND | ND | ND |
| Cadmium | 5 ug/L | 0.0010 mg/L | ND, <0.30 mg/L | ND | ND | ND | ND |
| Calcium | none established | 0.50 mg/L | 81,000 ug/L (81 mg/L) | 79.4 mg/L | 98.2 mg/L | 74.6 mg/L | ND |
| Chromium (total) | 50 ug/L | 0.0020 mg/L | ND, <0.60 ug/L | ND | 0.0057 mg/L | ND | ND |
| Cobalt | none established | 0.0050 mg/L | ND, <1.5 ug/L | ND | ND | ND | ND |
| Copper | 200 ug/L | 0.0050 mg/L | 0.91 ug/L B | ND | 0.0093 | ND | ND |
| Iron | 300 ug/L | 0.050 mg/L | 8.390 ug/L (8.39 mg/L) | 8.0 mg/L | 8.6 mg/L | 7.4 mg/L | ND |
| Lead | 25 ug/L | 0.010 mg/L | 2.3 ug/L J | ND | ND | ND | ND |
| Magnesium | 25,000 ug/L | 0.20 mg/L | 16,600 ug/L (16.6 mg/L) | 16.5 mg/L | 15.9 mg/L | 14.5 mg/L | ND |
| Manganese | 300 ug/L | 0.0030 mg/L | 716 ug/L (0.716 mg/L) | 0.71 mg/L | 0.67 mg/L | 0.86 mg/L | ND |
| Mercury | 0.7 ug/L | 0.00020 mg/L | ND, < 0.092 ug/L J | ND | ND | ND | ND |
| Nickel | 100 ug/L | 0.010 mg/L | ND, <0.47 ug/L | ND | ND | ND | ND |
| Potassium | none established | 0.50 mg/L | 2,570 ug/L B (2.57 mg/L) | 2.6 mg/L | 3.0 mg/L | 1.1 mg/L | ND |
| Selenium | 10 ug/L | 0.010 mg/L | ND, <4.9 ug/L | ND | ND | ND | ND |
| Silver | 50 ug/L | 0.0030 mg/L | ND, <0.90 ug/L | ND | ND | ND | ND |
| Sodium | 20,000 ug/L | 1.0 mg/L | 26,100 ug/L (26.1 mg/L) | 26.1 mg/L | 40.8 mg/L | 35.3 mg/L | ND |
| Thallium | 0.5 ug/L (guidance) | 0.020 mg/L | 5.6 ug/L J | ND | ND | ND | ND |
| Vanadium | none established | 0.0050 mg/L | 1.1 ug/L B | ND | 0.0061 mg/L | ND | ND |
| Zinc | 2,000 ug/L (guidance) | 0.020 mg/L | 3.0 ug/L B | ND | 0.31 mg/L | ND | ND |
| Cyanide, total, ug/g | 200 ug/L | 0.010 mg/L | ND, <10 ug/L | ND | ND | ND | ND |

ND = Not Detected

All Results ug/L, micrograms per liter (ppb) or mg/L, milligrams per liter (ppm)

J = Estimated, detected below method detection limit. ND-J = Detection Limit estimated based on data validation review

ND-R = Not Detected, but results not validated based on surrogate recoveries outside of acceptable range

B = Detected in Method Blank

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-000463-9
LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES, PESTICIDES AND HERBICIDES**

| Groundwater Monitoring Well and Sample Date | | | | | | | |
|---|---|----------------------------|------------------|-------------------|------------------|-------------------|------------------------------------|
| Pesticides | NYSDEC Class GA Standard TOGS 1.1.1 | Maximum Reporting Limit | MW-1 09/04/02 | MW-1D 09/04/02 | MW-6 08/29/02 | MW-12 08/29/02 | Field Blank MW-1 FB 08/29/02 |
| Aldrin | ND | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| Alpha-BHC | 0.01 ug/L | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| beta-BHC | 0.04 ug/L | 0.050 ug/L | N/A | ND-R | ND-R | ND-R | ND |
| gamma-BHC (Lindane) | 0.05 ug/L | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| delta-BHC | 0.04 ug/L | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| Chlordane | 0.05 ug/L | 0.50 ug/L | N/A | ND-R | ND-R | ND-R | ND |
| Alpha-Chlordane | 0.05 ug/L (Chlordane) | 0.050 ug/L | ND | NA | NA | NA | NA |
| gamma-Chlordane | 0.05 ug/L (Chlordane) | 0.050 ug/L | ND | NA | NA | NA | NA |
| 4,4'-DDD | 0.3 ug/L | 0.050 ug/L | ND-J | ND-R | ND-R | ND-R | ND |
| 4,4'-DDE | 0.2 ug/L | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| 4,4'-DDT | 0.2 ug/L | 0.050 ug/L | ND-J | ND-R | ND-R | ND-R | ND |
| Dieldrin | 0.004 ug/L | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| Endosulfan I | N/A | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| Endosulfan II | N/A | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| Endosulfan Sulfate | N/A | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| Endrin | ND | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| Endrin aldehyde | 5.0 ug/L | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| Endrin ketone | 5.0 ug/L | 0.10 ug/L | ND | NA | NA | NA | NA |
| Heptachlor | 0.04 ug/L | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| Heptachlor epoxide | 0.03 ug/L | 0.050 ug/L | ND | ND-R | ND-R | ND-R | ND |
| Methoxychlor | 35 ug/L | 0.050 ug/L | ND | NA | NA | NA | NA |
| Toxaphene | 0.06 ug/L | 0.89 ug/L | ND | ND-R | ND-R | ND-R | ND |
| Herbicides | | | | | | | |
| 2,4-D | 50 ug/L | 0.48 ug/L | ND | ND | ND | ND | ND |
| 2,4,5-TP (Silvex) | 10 ug/L | 0.48 ug/L | ND | ND | ND | ND | ND |
| 2,4,5-T | 35 ug/L | 0.48 ug/L | ND | ND | ND | ND | ND |

ND = Not Detected

All Results ug/L, micrograms per liter (ppb)

J = Estimated, detected below method detection limit. ND-J = Detection Limit estimated based on data validation review

ND-R = Not Detected, but results not validated based on surrogate recoveries outside of acceptable range

N/A = Not Applicable, No NYSDEC Class GA Standard or compound was not included in the analysis

**GOWANDA DAY HABILITATION CENTER
VOLUNTARY CLEANUP AGREEMENT SITE INVESTIGATION V-000463-9
LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES, PCBs**

| PCB | NYSDEC Class GA Standard TOGS 1.1.1 | Maximum Reporting Limit | MW-1 09/04/02 | MW-1D 09/04/02 | MW-6 08/29/02 | MW-12 08/29/02 | Field Blank MW-1 FB 08/29/02 |
|------------------|--|------------------------------------|--------------------------|---------------------------|--------------------------|---------------------------|---|
| PCB Aroclor 1016 | 5.0 ug/L | 0.53 ug/L | ND | ND | ND-J | ND-J | ND |
| PCB Aroclor 1221 | 5.0 ug/L | 0.53 ug/L | ND | ND | ND-J | ND-J | ND |
| PCB Aroclor 1232 | 5.0 ug/L | 0.53 ug/L | ND | ND | ND-J | ND-J | ND |
| PCB Aroclor 1242 | 5.0 ug/L | 0.53 ug/L | ND | ND | ND-J | ND-J | ND |
| PCB Aroclor 1248 | 5.0 ug/L | 0.53 ug/L | ND | ND | ND-J | ND-J | ND |
| PCB Aroclor 1254 | 5.0 ug/L | 0.53 ug/L | ND | ND | ND-J | ND-J | ND |
| PCB Aroclor 1260 | 5.0 ug/L | 0.53 ug/L | ND | ND | ND-J | ND-J | ND |

Legend

All results expressed as ug/L, micrograms per liter (ppb)

ND = Not Detected

J = Estimated, detected below method detection limit. ND-J = Detection Limit estimated based on data validation review

APPENDIX 5
Chain-of-Custody Forms
And
Laboratory Analytical Reporting Package

Chain of Custody Record

**SEVERN
TRENT
SERVICES**

Severn Trent Laboratories, Inc.

SL-4124 (1200)

Client: **Bergmann Associates**
 Address: **200 First Federal Plaza**
 City: **Rochester** State: **NY** Zip Code: **14614**

Project Name and Location (State): **Gowanda Day Habitation**

Contract/Purchase Order/Quote No.: **5596.03**

Project Manager: **Edward Jones**
 Telephone Number (Area Code)/Fax Number: **(585) 232-5195 (585) 232-4652**

Site Contact: **Brian Fischer**
 Lab Contact: **Brian Fischer**

Project Manager: **Edward Jones**
 Date: **07/11/02**
 Chain of Custody Number: **100434**

Lab Number: **Page 1 of 1**

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix | | | | | Containers & Preservatives | | | | | Analysis (Attach list if more space is needed) | Special Instructions/ Conditions of Receipt | | |
|---|----------|---------|--------|---|---|---|---|----------------------------|---|---|---|----|--|--|--|-----|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | 11 | 12 |
| S070802 EJ 16 8-10 | 07/08/02 | 5:00 PM | X | X | X | X | X | X | X | X | X | X | X | X | TCL-pesticides PCBs TCL-SVOCs TCL-Metal | |
| S070902 EJ 17 8-12 | 07/09/02 | 2:00 PM | X | X | X | X | X | X | X | X | X | X | X | X | | |
| S070902 EJ 22 4-6 | 7/09/02 | 3:30 AM | X | X | X | X | X | X | X | X | X | X | X | X | | |
| S070902 EJ 18 5-6 | 7/10/02 | 8:40 AM | X | X | X | X | X | X | X | X | X | X | X | X | | ASB |
| S071002 EJ 10 6-8 | 7/10/02 | 11 AM | X | X | X | X | X | X | X | X | X | X | X | X | | ASB |
| S071102 EJ 09 8-10 | 7/11/02 | 7:15 PM | X | X | X | X | X | X | X | X | X | X | X | X | | ASB |
| S071102 EJ 04 10-12 | 7/11/02 | 12:30 | X | X | X | X | X | X | X | X | X | X | X | X | | ASB |
| W071102 EJ 04 FB | 7/11/02 | 1:00 PM | X | | | | | | | | | | | | | ASB |
| Tape Green (ASB) | | | | | | | | | | | | | | | | |

Possible Hazard Identification:
 Non-Hazard
 Flammable
 Skin Irritant
 Poisonous
 Unknown
 Other

Sample Disposal:
 Disposal By Lab
 Return To Client
 Archive For _____ Months
 (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required:
 24 Hours
 48 Hours
 7 Days
 14 Days
 21 Days
 Other _____

1. Relinquished By: **Edward Jones** Date: **07/11/02** Time: **2:55 PM**
 2. Relinquished By: **[Signature]** Date: **7/11/02** Time: **5:00**
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: **ve**

WHILE COPIES WITH THE SAMPLE COMPANY ARE KEPT FOR YOUR RECORD, THIS IS A COPY

Chain of Custody Record



Severn Trent Laboratories, Inc.

SIL-4124 (1200)

| | | | | |
|--|--|--|--|---|
| Client Bergmann Associates | | Project Manager EA Jones | | Date |
| Address 200 First Federal Plaza | | Telephone Number (Area Code)/Fax Number 585 232 5135 | | Chain of Custody Number 100433 |
| City Rochester | | Site Contact Lab Contact | | Page 1 of 1 |
| State NY | | Zip Code 14614 | | |
| Project Name and Location (State) Gowanda Day Habilitation | | Carrier/Waybill Number | | |
| Contract/Purchase Order/Quote No. | | | | |
| Sample I.D. No. and Description (Containers for each sample may be combined on one line) S011023M03B-10 | | Date 01/12/02 | | Analysis (Attach list if more space is needed) X VOCs BAR |
| Time 1100 | | Matrix | | |
| | | Containers & Preservatives | | |
| | | H2SO4 | | |
| | | HNO3 | | |
| | | HCl | | |
| | | H2O2 | | |
| | | ZnAc | | |
| | | HNO3 | | |
| | | HCl | | |
| | | H2SO4 | | |
| | | Urnium | | |
| | | X | | |
| | | X | | |
| | | | | |

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

Sample Disposal
 Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

OC Requirements (Specify)

1. Relinquished By _____ Date **7/12/02** Time **1545**
2. Relinquished By _____ Date _____ Time _____

1. Received By _____ Date **7-12-02** Time **1545**
2. Received By _____ Date _____ Time _____

3. Received By _____ Date _____ Time _____

Comments
80

000192

**Chain of
Custody Record**

STL-124 (12/00)

Client: **Bergmann Associates** Project Manager: **Ed JONES** Date: **7/19/02** Chain of Custody Number: **100432**
 Address: **200 First Federal Plaza, 28 E. Main St** Telephone Number (Area Code)/Fax Number: **(585) 232 5135** Lab Number: _____ of _____
 City: **Rochester** State: **Ny** Zip Code: **14614** Lab Contact: **Brian Fischer** Page _____ of _____
 Project Name and Location (State): **Gowanda Day Habilitation Ctr** Carrier/Waybill Number: _____
 Contract/Purchase Order/Quote No: **5596-03**

| Sample I.D. No and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix | | | Contaminants & Preservatives | | | | | | Analysis (Attach list if more space is needed) | Special Instructions/ Conditions of Receipt | |
|--|---------|---------|--------|---|---|------------------------------|-------|------|-----|------|------|--|--|-----------------|
| | | | 1 | 2 | 3 | Uptms | H2SO4 | HNO3 | HCl | NaOH | ZnAc | | | HNO2 |
| S 07 15 02 EJ 13 10-12 | 7/15/02 | 3:30pm | X | | | X | | | | | | | TCL Herbicides | |
| S 07 16 02 EJ 12-14 | 7/16/02 | 2:15pm | X | | | X | | | | | | | TCL Pesticides | |
| S 07 17 02 EJ 11 9-11 | 7/17/02 | 11:00am | X | | | X | | | | | | | PCBs | |
| S 07 18 02 EJ 14 10-12 | 7/18/02 | 9:30am | X | | | X | | | | | | | TCL SVOCs | |
| S 07 19 02 EJ 15 12-14 | 7/19/02 | 8:30am | X | | | X | | | | | | | TCL Metals | |
| W 07 19 02 EJ 15 FB | 7/19/02 | 10:00am | X | | | X | | | | | | | VOCs 8266 | ASP (TRAIN BUS) |
| TB 07 19 02 | 7/19/02 | 10:00am | X | | | X | | | | | | | | |
| S 07 19 02 EJ GARDEN-N | 7/19/02 | 10:30am | X | | | X | | | | | | | | |
| SS 07 19 02 EJ G-S | 7/17/02 | 10:30am | X | | | X | | | | | | | | |

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Sample Disposal: Return To Client Disposal By Lab Other: **Standard**

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: _____

1. Requisitioned By: **Edward Jones** Date: **7/19/02** Time: **15:21**
 2. Requisitioned By: _____ Date: _____ Time: _____

1. Received By: _____ Date: **7/17/02** Time: **15:21**
 2. Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Comments: **60c**

Chain of Custody Record

31L-1-24 (2001)

Client: **Bergmann Associates** Project Manager: **Edward Jones** Date: **07/26/02** Chain of Custody Number: **133167**
 Address: **Zoo First Federal Plaza 28 East Main St.** Telephone Number (Area Code)/Fax Number: **(585) 232 5135 x 4097** Lab Number: **1** of **2**
 City: **Rochester** State: **Ny** Zip Code: **14614** Site Contact: **Brian Fischer**

Project Name and Location (State): **Gowanda Day Hub; 1; rat; on ctt.** Carrier/Vendor Number: **---**
 Contract/Purchase Order/Invoice No.: **Job# 5596.03**

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix | | | | | Containers & Preservatives | | | | | Analysis (Attach list if more space is needed) | Special Instructions/ Conditions of Receipt |
|---|----------|---------|--------|---------|-------|----------|-------|----------------------------|------|------|------|------|--|--|
| | | | Soils | Sludges | Water | Slurries | Other | None | None | None | None | None | | |
| S072302 EJ 28 11-12 | 07/23/02 | 9:30 | X | X | X | X | X | X | X | X | X | X | TCL-Pesticides | NON ASP |
| S072302 EJ 26 11-13 | 07/23/02 | 11:00 | X | X | X | X | X | X | X | X | X | X | TCL-Herbic | |
| S072302 EJ 25 9-11 | 07/23/02 | 4:30 PM | X | X | X | X | X | X | X | X | X | X | PCBS | 2 JARS |
| S072302 EJ 25D 9-11 | 07/23/02 | 4:30 PM | X | X | X | X | X | X | X | X | X | X | TCL-Metals | 2 JARS |
| S072402 EJ 21 8-10 | 07/24/02 | 8:00 AM | X | X | X | X | X | X | X | X | X | X | TCL-Herbic | |
| S072402 EJ 08 9-10 | 07/24/02 | 11:40 | X | X | X | X | X | X | X | X | X | X | PCBS | |
| S072402 EJ 19 8-16 | 07/24/02 | 3:30 PM | X | X | X | X | X | X | X | X | X | X | TCL-Metals | |
| S072502 EJ 02 8-10 | 07/25/02 | 8:50 | X | X | X | X | X | X | X | X | X | X | SVOCs-TCL | |
| S072502 EJ 23 10-11 | 07/25/02 | 1:40 | X | X | X | X | X | X | X | X | X | X | Locs Bkgd: TCL | |
| S072602 EJ 27 12-13 | 07/26/02 | 8:30 | X | X | X | X | X | X | X | X | X | X | SVOCs-TCL | |
| S072502 EJ 23D 10-11 | 07/25/02 | 1:40 | X | X | X | X | X | X | X | X | X | X | Locs Bkgd: TCL | |

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For Monitoring (Specify)

Turnout/Response Time Required: 24 HOURS 48 HOURS 7 Days 14 Days 21 Days Other _____
 1. Relinquished By: **Edward Jones** Date: **07/26/02** Time: **14:50**
 2. Relinquished By: **Edward Jones** Date: **07/26/02** Time: **14:50**
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: **As-built**

Chain of
Custody Record

SFL 4-25 (0807)

Client: **Bergmann Associates** Project Manager: **Edward Jones** Date: **07/26/02** Chain of Custody Number: **133165**
 Address: **200 First Federal Plaza, 20 East Main St.** Telephone Number (Area Code)/Fax Number: **(585) 232 5135 X 4092** Lab Number: **Page 2 of 2**
 City: **Rochester** State: **NY** Zip Code: **14614** Site Contact: **Brian Fischer** Lab Contact: **TCL 515**

Project Name and Location (State): **Gowanda Day Habilitation Ctr.** Contract/Purchase Order/Quote No.: **Job # 5596-03** Carer/Worker Number: _____
 Analysis (Attach list if more space is needed)

| Sample ID No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix | | | | Containers & Preservatives | | | | Special Instructions/ Conditions of Receipt | |
|---|-----------------|--------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|----------------|
| | | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | | |
| S072602EJ 20 12-14 | 07/26/02 | 11:30 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | NDN ASP |
| W072602EJ 20 FB | 07/26/02 | 11:45 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 2 VOA |
| W072602EJ T.B. 07/17/02 | 07/17/02 | - | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1 VOA |
| 0726 | | | | | | | | | | | | |

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months _____ Months _____ Months _____ Months
 Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____
 Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months _____ Months _____ Months _____ Months
 BC Requirements (Specify): _____
 (A fee may be assessed if samples are retained longer than 1 month)

1. Relinquished By: **Edward Jones** Date: **07/26/02** Time: **14:50** 1. Received By: _____ Date: _____ Time: _____
 2. Relinquished By: _____ Date: _____ Time: _____ 2. Received By: **John S. Buffalo** Date: **7/26/02** Time: **14:50**
 3. Relinquished By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____

Comments: **Asst**

000203

000195

Chain of Custody Record

STL 3-24 (9801)

Client: **Bergmann Associates** Address: **200 First Federal Plaza 28E Main St Rochester NY 14614**

Project Manager: **Edward Jones** Date: **08/01/02** Chain of Custody Number: **133041**

Telephone Number (Area Code/Fax Number): **(585) 232-5137 x 409** Lab Number: _____ Page _____ of _____

Site Contact: **Brian Fischer** Carrier/Waybill Number: _____

Project Name and Location (State): **Gowanus Bay Rehabilitation Ctr**

Contract/Purchase Order/Quote No.: **JOB # 5596.03**

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix | | | | | Containers & Preservatives | | | | | Analysis (Attach list if more space is needed) | Special Instructions/ Conditions of Receipt |
|---|---------|---------|--------|-------|--------|-------|---------|----------------------------|------|----|------|------|--|--|
| | | | Soil | Water | Sludge | Other | Unknown | LDPE | HDPE | HD | HDNR | HDNR | | |
| S073002EJ 0716-17-5 | 7/30/02 | 7:45 AM | X | X | X | X | X | X | X | X | X | X | TCL-SP0CS | Standard non-ASP |
| S073002EJ 0618-20 | 7/30/02 | 12:40 | X | X | X | X | X | X | X | X | X | X | TCL-Metals | ASP, MS, MS Dup |
| S073102EJ 0518-13 | 7/31/02 | 7:50 | X | X | X | X | X | X | X | X | X | X | PCB's | non-ASP |
| S073102EJ 2418-20 | 7/31/02 | 11:20 | X | X | X | X | X | X | X | X | X | X | TCL-Herbicides | non-ASP |
| S073102EJ 0118-10 | 7/31/02 | 2:40 | X | X | X | X | X | X | X | X | X | X | TCL-Pesticides | ASP, MS, MS Dup |
| S073102EJ 012-4 | 7/31/02 | 2:10 | X | X | X | X | X | X | X | X | X | X | VOCs Base-TCL & STARS | non-ASP |
| W073102EJ 01FB | 7/31/02 | 3:30 | X | X | X | X | X | X | X | X | X | X | TCL-pesticides | HOLD - direct with |
| Trip Blank | 7/23/02 | | X | X | X | X | X | X | X | X | X | X | PCB's | non-ASP |

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Dispose By Lab Archive For (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **STANDARD**

1. Requisitioned By: **Edward Jones** Date: **08/01/02** Time: **9:15 AM**

2. Requisitioned By: **Edward Jones** Date: _____ Time: _____

3. Requisitioned By: _____ Date: _____ Time: _____

1. Received By: _____ Date: _____ Time: _____

2. Received By: **Edward Jones** Date: **8/16/02** Time: **9:20 AM**

3. Received By: _____ Date: _____ Time: _____

Comments: **60C**

000204

000198

TC

Chain of Custody Record

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

STL 4124 (08/01)

Client: **Benjmann Associates** Project Manager: **Ed Jones** Date: **08/30/02** Chain of Custody Number: **114623**

Address: **200 First Federal Plaza 28E, MAINE** Telephone Number (Area Code) Fax Number: **(585) 232-5135** Lab Number: **2 of 2**

City: **Rochester** State: **NY** Zip Code: **14614** Site Contact: **Brian Fischer**

Project Name and Location (State): **Gowanda Day Habilitation CH** Carrier/Vehicle Number: _____

Contract/Purchase Order/Quote No: **5596.03**

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix | | | | | | Containers & Preservatives | | | | | | Analysis (Attach list if more space is needed) | Special Instructions/ Conditions of Receipt | | |
|---|----------|---------|--------|----|----|-----|-----|-----|----------------------------|-----|----|-----|-----|----------|--|--|-----------|--------------------|
| | | | Agar | 2% | 5% | 10% | 15% | 20% | GC/MS | PCR | HI | HOH | DMH | TCF-VOCs | | | TCF-SVOCs | Flash Point |
| W082902EJ-07D | 08/29/02 | 13:20 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | Sw 846 standard |
| W082902EJ-11 | 08/29/02 | 15:20 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | ASPM5, MSD |
| W082902EJ-12 | 08/29/02 | 16:15 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | Standard Sw 846 |
| W082902EJ-01 | 08/29/02 | 17:20 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 3 JARS each Sw 846 |
| W082902EJ-FB | 08/29/02 | 18:15 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | Standard Sw 846 |
| S082902EJ-D1 | 08/29/02 | 4:45 PM | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | Standard Sw 846 |
| S082902EJ-D2 | 08/29/02 | 5:40 PM | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | Standard Sw 846 |
| S082902EJ-D3 | 08/29/02 | 5:50 PM | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | Standard Sw 846 |
| WTB T.R.P. Blank | 08/19/02 | 17:20 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | Standard Sw 846 |
| W082902EJ-ID | 08/29/02 | 17:20 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | Standard Sw 846 |

Possible Hazardous Identification: Non-Hazardous Flammable Skin Irritant Poison B Unknown Return To Client Archive For _____ Months Disposed By Lab (A fee may be assessed if samples are retained longer than 1 month)

Sample Disposal: Other: **STANDARD**

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **STANDARD**

1. Relinquished By: **Edward Jones** Date: **08/30/02** Time: **9:40**

2. Relinquished By: **Ben Jones** Date: **08/30/02** Time: **09:40**

3. Relinquished By: _____ Date: _____ Time: _____

Comments: **306C**

Chain of Custody Record

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (03/01)

Client: **Bergmann Associates** Project Manager: **Ed Jones** Date: **08/30/02** Chain of Custody Number: **114624**

Address: **200 First Federal Plaza, 28 E. Main St. Rochester, NY** Telephone Number (Area Code): **(585) 232-5135** Lab Number: **1** of **2**

City: **Rochester, NY** State: **NY** Zip Code: **14614** Site Contact: **Brian Fischer**

Project Name and Location (State): **GOLLANDA, NY 5596-03** Contract/Purchase Order/Quote No: _____

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix | | | | | Containers & Preservatives | | | | | Analysis (Attach list if more space is needed) | Special Instructions/ Conditions of Receipt | |
|---|----------|-------|--------|---|---|---|---|----------------------------|---|---|---|----|--|--|------------------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | 11 |
| W082802EJ-09 | 08/28/02 | 18:25 | X | X | X | X | X | X | X | X | X | X | X | VOCs-TCL | Standard SW846 |
| W082802EJ-10 | 08/28/02 | 11:30 | X | X | X | X | X | X | X | X | X | X | X | PCBs | |
| W082802EJ-04 | 08/28/02 | 12:55 | X | X | X | X | X | X | X | X | X | X | X | Herbicides | |
| W082802EJ-08 | 08/28/02 | 13:15 | X | X | X | X | X | X | X | X | X | X | X | Pesticides | |
| W082802EJ-03 | 08/28/02 | 14:20 | X | X | X | X | X | X | X | X | X | X | X | Cyanide | |
| W082802EJ-05 | 08/28/02 | 14:35 | X | X | X | X | X | X | X | X | X | X | X | | |
| W082802EJ-13 | 08/28/02 | 15:40 | X | X | X | X | X | X | X | X | X | X | X | | |
| W082802EJ-02 | 08/28/02 | 16:30 | X | X | X | X | X | X | X | X | X | X | X | | |
| W082902EJ-06 | 08/29/02 | 9:30 | X | X | X | X | X | X | X | X | X | X | X | | Standard SW846 |
| W082902EJ-15 | 08/29/02 | 11:40 | X | X | X | X | X | X | X | X | X | X | X | | ASP on-15 |
| W082902EJ-14 | 08/29/02 | 12:00 | X | X | X | X | X | X | X | X | X | X | X | | Standard SW846 |
| W082902EJ-07 | 08/29/02 | 19:20 | X | X | X | X | X | X | X | X | X | X | X | | ASP 2 extra bags |

Possible Hazard Identification: Non-Hazard Flammable Skin irritant Poison B Unknown

Sample Disposal: Return to Client Archive for _____ Months Disposal by Lab Requirements (Specify): _____

Turn Around Time (Required): 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **STANDARD**

1. Relinquished By: **Ed Jones** Date: **08/30/02** Time: **9:40**

2. Relinquished By: **John Gagny** Date: **08/30/02** Time: **09:40**

3. Relinquished By: _____ Date: _____ Time: _____

Comments: **306°C**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

**Chain of
Custody Record**

ST-4-24 (200)

| | | | | | |
|---|--|---|--|--|--|
| Client Bergmann Associates 200 First Federal Plaza, 20 E. Main St. Rochester, NY 14614 Gowanda Day Habilitation Contract/Purchase Order/Quote No. 5596-03 | | Project Manager Edward Jones Telephone Number (Area Code)/Fax Number (585) 232-5135 x 4109 Site Contact Brian Fischer Carrier/Waybill Number | | Date 09/04/02 Lab Number 099038 Page 1 of 1 | |
| Sample I.D. No. and Description (Containers for each sample may be combined on one line) W090402ET-01 W090402ET-01D T.B. | | Mainx 2 8 8 2 8 8 | | Containers & Preservatives H2SO4 HNO3 HCl HNO2 HNO3 H2SO4 | |
| Analysis (Attach list if more space is needed) VOCs - TCL SVOCs Lead PCBs Pesticides Herbicides | | Special Instructions/ Conditions of Receipt ASP, MS, MSD Standard SW846 Standard SW846-101 | | | |

| | | | |
|--|--|--|--|
| Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown | | Sample Disposal <input checked="" type="checkbox"/> Return to Client <input type="checkbox"/> Archive For _____ Months <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archival For _____ Months (A fee may be assessed if samples are retained longer than 3 months) | |
| Turn Around Time Required <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other STANDARD | | QC Requirements (Specify) | |
| 1. Relinquished By Edward Jones Date: 09/04/02 Time: 13:38 | | 1. Received By [Signature] Date: 09-04-02 Time: 13:40 | |
| 2. Relinquished By | | 2. Received By | |
| 3. Relinquished By | | 3. Received By | |

Comments: 70°C

SEVERN

TRENT

SERVICES

STL Buffalo

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ANALYTICAL REPORT
Revised

Job#: A02-7056, A02-7130, A02-7365, A02-7638, A02-7821

STL Project#: NY2A8896

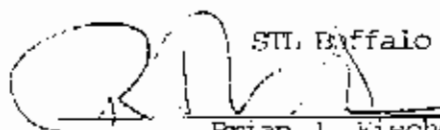
SDG#: 7056

Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

Task: SW8463 DELIVERABLES

SW846 SOIL SAMPLES

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

 STL Buffalo
for Brian J. Fischer
Project Manager

08/28/2002

This report contains 231 pages which are individually numbered.

SAMPLE SUMMARY

000001

| LAB SAMPLE ID | CLIENT SAMPLE ID | SAMPLED | | RECEIVED | |
|---------------|---------------------|------------|-------|------------|-------|
| | | DATE | TIME | DATE | TIME |
| A2705601 | S070802EJ16 8-10 | 07/08/2002 | 17:00 | 07/11/2002 | 14:50 |
| A2705602 | S070902EJ17 8-12 | 07/09/2002 | 14:00 | 07/11/2002 | 14:50 |
| A2705603 | S070902EJ22 4-6 | 07/09/2002 | 15:30 | 07/11/2002 | 14:50 |
| A2705604 | S071002EJ10 6-8 | 07/10/2002 | 11:00 | 07/11/2002 | 14:50 |
| A2705605 | S071102EJ09 8-10 | 07/11/2002 | 07:15 | 07/11/2002 | 14:50 |
| A2713001 | S071202TMO38-10 | 07/12/2002 | 11:00 | 07/12/2002 | 15:45 |
| A2736501 | S071502EJ13 10-12 | 07/15/2002 | 15:20 | 07/19/2002 | 15:21 |
| A2736502 | S071602EJ12 12-14 | 07/16/2002 | 14:15 | 07/19/2002 | 15:21 |
| A2736503 | S071702EJ11 9-11 | 07/17/2002 | 11:00 | 07/19/2002 | 15:21 |
| A2736504 | S071802EJ14 10-12 | 07/18/2002 | 09:30 | 07/19/2002 | 15:21 |
| A2763803 | S072302EJ25 9-11 | 07/23/2002 | 16:20 | 07/26/2002 | 14:50 |
| A2763804 | S072302EJ25D 9-11 | 07/23/2002 | 16:20 | 07/26/2002 | 14:50 |
| A2763802 | S072302EJ26 11-12 | 07/23/2002 | 11:00 | 07/26/2002 | 14:50 |
| A2763801 | S072302EJ28 11-12 | 07/23/2002 | 09:30 | 07/26/2002 | 14:50 |
| A2763806 | S072402EJ08 9-10 | 07/24/2002 | 14:00 | 07/26/2002 | 14:50 |
| A2763807 | S072402EJ19 8-10 | 07/24/2002 | 15:10 | 07/26/2002 | 14:50 |
| A2763805 | S072402EJ21 8-10 | 07/24/2002 | 08:00 | 07/26/2002 | 14:50 |
| A2763808 | S072502EJ02 8-10 | 07/25/2002 | 08:50 | 07/26/2002 | 14:50 |
| A2763809 | S072502EJ23 10-11 | 07/25/2002 | 13:40 | 07/26/2002 | 14:50 |
| A2763811 | S072502EJ23D 10-11 | 07/25/2002 | 13:40 | 07/26/2002 | 14:50 |
| A2763812 | S072602EJ20 12-14 | 07/26/2002 | 11:20 | 07/26/2002 | 14:50 |
| A2763810 | S072602EJ27 12-13 | 07/26/2002 | 08:30 | 07/26/2002 | 14:50 |
| A2782101 | S073002EJ07 16-17.5 | 07/30/2002 | 07:45 | 08/01/2002 | 09:20 |
| A2782104 | S073102EJ01 2-4 | 07/30/2002 | 14:10 | 08/01/2002 | 09:20 |
| A2782102 | S073102EJ05 8-13 | 07/30/2002 | 07:50 | 08/01/2002 | 09:20 |
| A2782103 | S073102EJ24 18-20 | 07/30/2002 | 11:20 | 08/01/2002 | 09:20 |
| A2736508 | SS071902EJ G-S | 07/19/2002 | 10:35 | 07/19/2002 | 15:21 |
| A2736507 | SS071902EJ GARDEN-N | 07/19/2002 | 10:25 | 07/19/2002 | 15:21 |
| A2736506 | TB071902 | 07/19/2002 | | 07/19/2002 | 15:21 |
| A2782106 | TRIP BLANK | 07/23/2002 | | 08/01/2002 | 09:20 |
| A2736505 | W071902EJ15 FB | 07/19/2002 | 08:30 | 07/19/2002 | 15:21 |
| A2763813 | W072602EJ20 FB | 07/26/2002 | 11:45 | 07/26/2002 | 14:50 |
| A2763814 | W072602EJTB | 07/26/2002 | | 07/26/2002 | 14:50 |
| A2782105 | W073102EJ01FB | 07/30/2002 | 15:30 | 08/01/2002 | 09:20 |

METHODS SUMMARY

Job#: A02-7056, A02-7130, A02-7365, A02-7638, A02-7821

STL Project#: NY2A8896

SDG#: 7056

Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

| PARAMETER | ANALYTICAL METHOD |
|--|-------------------|
| BERG - SOIL METHOD 8260 - TCL VOAS + STARS | SW8463 8260 |
| BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS | SW8463 8260/SML |
| BERG - W- METHOD 8270 - TCL SEMI-VOLATILE ORGANICS | SW8463 8270 |
| BERG -S- METH 8270 - TCL SEMI-VOLATILE ORGANICS | SW8463 8270 |
| BERG - S - METHOD 8082 - POLYCHLORINATED BIPHENYLS | SW8463 8082 |
| BERG - S - SW8463 8081 - TCL PESTICIDES | SW8463 8081 |
| BERG - S - SW8463 8151 HERBICIDES (3 CMPDS) | SW8463 8151 |
| BERG - W - METHOD 8082 - POLYCHLORINATED BIPHENYLS | SW8463 8082 |
| BERG - W - SW8463 8081 - TCL PESTICIDES | SW8463 8081 |
| BERG - W - SW8463 8151 - HERBICIDES (3 CMPDS) | SW8463 8151 |
| Aluminum - Total | SW8463 6010 |
| Antimony - Total | SW8463 6010 |
| Arsenic - Total | SW8463 6010 |
| Barium - Total | SW8463 6010 |
| Beryllium - Total | SW8463 6010 |
| Cadmium - Total | SW8463 6010 |
| Calcium - Total | SW8463 6010 |
| Chromium - Total | SW8463 6010 |
| Cobalt - Total | SW8463 6010 |
| Copper - Total | SW8463 6010 |
| Iron - Total | SW8463 6010 |
| Lead - Total | SW8463 6010 |
| Magnesium - Total | SW8463 6010 |
| Manganese - Total | SW8463 6010 |
| Mercury Total | SW8463 7470 |
| Mercury Total | SW8463 7471 |
| Nickel - Total | SW8463 6010 |
| Potassium - Total | SW8463 6010 |
| Selenium - Total | SW8463 6010 |
| Silver - Total | SW8463 6010 |
| Sodium - Total | SW8463 6010 |
| Thallium Total | SW8463 6010 |
| Vanadium - Total | SW8463 6010 |
| Zinc - Total | SW8463 6010 |
| Cyanide - Total | SW8463 9012 |
| Cyanide - Total | SW8463 9012A |

000003

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

NON-CONFORMANCE SUMMARY

Job#: A02-7056, A02-7130, A02-7365, A02-7638, A02-7821

STL Project#: NY2A8896

SDG#: 7056

Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-7056

Sample Cooler(s) were received at the following temperature(s); 6 °C

Sample Cooler(s) were received at the following temperature(s); 6°C.

A02-7130

Sample Cooler(s) were received at the following temperature(s); 8°C.

Sample was received at a temperature of 8°C. However, ice was present in the cooler and as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

A02-7365

Sample Cooler(s) were received at the following temperature(s); 6 °C

All samples were received in good condition.

A02-7638

Sample Cooler(s) were received at the following temperature(s); AMBIENT °C

Sample were received without ice present. However, samples had apparently been kept cool prior to receipt.

A02-7821

Sample Cooler(s) were received at the following temperature(s); 6 °C

All samples were received in good condition.

000005

GC/MS Volatile Data

The analyte Methylene Chloride was detected in VBLK33 and VBLK34 at a level above the project established reporting limit. Samples had levels of Methylene Chloride less than ten times that of the Method Blank value. US EPA CLP National Functional Guidelines for Data Review suggests that all sample detections for Methylene Chloride should be considered a product of laboratory contamination and that the reporting limit be raised to the concentration found in the sample.

STL Buffalo internal validation forms are reported and included in this report as Appendix A.

The analytes Methylene Chloride and Acetone were detected in VBLK48 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte Methylene Chloride was detected in Method Blanks VBLK32 and VBLK33 at a level above the project established reporting limit. Samples had levels of Methylene Chloride less than ten times that of the Method Blank value. US EPA CLP National Functional Guidelines for Data Review suggests that all sample detections for Methylene Chloride should be considered a product of laboratory contamination and that the reporting limit be raised to the concentration found in the sample.

The analytes Acetone and Methylene Chloride were detected in Method Blanks VBLK36 and VBLK37 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte Carbon Disulfide was detected in Method Blank VBLK51 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte Acetone was detected in Method Blanks VBLK 44 and VBLK 46 at a level below the project established reporting limit. The analyte Toluene was also detected in the Method Blank VBLK 46 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The internal standard recoveries of Chlorobenzene D5, 1,4-Dichlorobenzene -D4, and 1,4-Difluorobenzene in sample S072302EJ25 9-11 were below quality control limits. Upon reanalysis, internal standard recovery of 1,4-Dichlorobenzene-D4 in sample S072302EJ25 9-11 RI was also below quality control limits. These similar results indicate potential matrix interference. Both sets of data are reported.

The analyte Methylene Chloride was detected in Method Blanks VBLK 44, VBLK 45 and VBLK 46 at a level above the project established reporting limit. Samples had levels of Methylene Chloride less than ten times that of the Method Blank value. US EPA CLP National Functional Guidelines for Data Review suggests that all sample detections for Methylene Chloride should be considered a product of laboratory contamination and that the reporting limit be raised to the concentration found in the sample.

The analytes Acetone, Methylene Chloride and Toluene were detected in Method Blank VBLK 63 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analytes 1,2,4-Trichlorobenzene, Methylene Chloride, Acetone, and Toluene were detected in the Method Blank VBLK62 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analytes Toluene and Methylene Chloride were detected in the Method Blank VBLK58 at a level below the project established reporting limit. The analyte Methylene Chloride was also detected in the Method Blank VBLK57 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Sample S073002EJ07 16-17.5 exceeded control limits for all three Internal Standards (IS). The sample was reanalyzed using 1.0 gram of sample (DL), due to target analytes exceeding the linear range of the calibration curve, and the Internal Standards were now within control limits. Both sets of data are reported.

GC/MS. Semivolatile Data

STL Buffalo internal validation forms are reported and included in this report as Appendix A.

The analyte Di-n-butyl phthalate was detected in the Method Blank A2B0681002 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte Di-n-butyl phthalate was detected in the Method Blanks A2B0721402 and A2B0746203 at a levels below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

All surrogate recoveries were below the laboratory quality control limits for sample S072302EJ25 9-11, S072302EJ25D 9-11, and S072402EJ21 8-10 due to water in the extract. The sample was re-extracted within hold time with compliant results. Only the results from the re-extraction are included in this report.

GC Extractable Data

For method 8081, the recovery of the surrogates Tetrachloro-m-xylene and Decachlorobiphenyl in sample S070902EJ17 8-12 was outside of established quality control limits due to heavy sample matrix. The recovery of all other quality control meets criteria. No corrective action was required.

STL Buffalo internal validation forms are reported and included in this report as Appendix A.

Sample GARDEN N was florisisl treated to minimize matrix interferences. This sample was also diluted due to high positives of target compounds.

050007

Sample SS071902EJ GARDEN-N was diluted prior to analysis for Method 8151 due to the coloration of the extract.

For method 8081, several analytes in the associated continuing calibration verifications exhibited a percent difference greater than 15% from the expected amount. The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was required.

The recovery of the surrogate Docachlorobiphenyl in samples S072302EJ25 9-11, and S072302EJ25D 9-11 was outside of established quality control limits due to the sample matrix. The recovery of the surrogate Tetrachloro-m-xylene was within quality control limits, no corrective action was required.

Samples S072302EJ25 9-11 and S072302EJ25D 9-11 were florisol treated to minimize matrix interferences.

Metals Data

The LCS CLP Soils, A2B0648001, recoveries for Antimony, Iron and Vanadium were below quality control limits. However, these spikes were within the LCS Manufacturer Control Limits, therefore, no corrective action was necessary. In addition, the LCS, A2B0698401, recovery for Mercury was below quality control limits but within the LCS Manufacturer limits. No corrective action was necessary.

STL Buffalo internal validation forms are reported and included in this report as Appendix A.

The recovery of the Laboratory Control Sample, (A2B0687701), exhibited results below quality control limits for Total Aluminum, Total Antimony, Total Iron and Total Vanadium. However, the results were within the Manufacturer Quality Control Limits, therefore, no corrective action was necessary.

The analyte Iron was detected in the Method Blank (A2B0741802) at a level above the project established reporting limit. However, all samples had levels of Iron greater than ten times that of the Method Blank value, therefore, no corrective action was necessary.

The recovery of samples S072402EJ21 8-10 Matrix Spike and Matrix Spike Duplicate exhibited results below quality control limits for Aluminum, Antimony, Barium, Calcium, Iron, Magnesium, Manganese, Potassium and Zinc. The relative percent difference between the samples exceeded quality control criteria for Aluminum, Barium, Calcium and Magnesium. However, the LCS CLP Soils was compliant.

Revision Comments

Wet Chemistry Data (Revision)

Due to laboratory oversight, sample S070902EJ17 8-12 was analyzed past the EPA-recommended holding time for Cyanide analysis. The sample results should be considered estimated.

Due to laboratory oversight, sample SS071902EJ GARDEN-N was analyzed past the EPA-recommended holding time for Cyanide analysis. The sample results should be considered estimated.

Due to laboratory oversight, samples S072302EJ25 9-11, S072302EJ25D 9-11, and S072402EJ21 8-10 were analyzed past the EPA-recommended holding time for Cyanide analysis. The sample results should be considered estimated.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Parameter (Inorganic)/Method (Organic)</u> | <u>Dilution</u> | <u>Code</u> |
|-------------------------|----------------------|---|-----------------|-------------|
| SS071902EJ GARDEN-W | A2736507 | 8081 | 10.00 | 008 |
| SS071902EJ GARDEN-W | A2736507 | 8151 | 4.00 | 010 |
| SS071902EJ GARDEN-W | A2736507 | 8270 | 10.00 | 012 |
| S072302EJ25 9-11 | A2763803RE | 8270 | 5.00 | 012 |
| S072302EJ250 9-11RED | A2763804DR | 8270 | 2.00 | 008 |

000009

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - non-target compounds (TICS) exceeded 5X the total response of one of the Internal Standards
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- ! Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- K Indicates the post digestion spike recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- M Indicates duplicate injection results exceeded quality control limits.
- W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- Indicates analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

000011

Sample Data Package

| Client ID | Lab ID | Sample Date | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|-----------------------------|----------|------------------------|-------|--------------|-----------------|--------------|-----------------|-----------------|-----------------|------------------|-----------------|
| S070802EJ16 8-10 | A2705601 | A02-7056 07/08/2002 | UG/KG | ND | 31 | ND | 26 | ND | 32 | S070902EJ17 8-12 | A2705602 |
| Acetone | UG/KG | ND | 31 | ND | 26 | ND | 32 | S070902EJ22 4-6 | A2705603 | S071002EJ10 6-B | A2705604 |
| Benzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | A02-7056 | A02-7056 | 07/10/2002 | 07/10/2002 |
| Bromodichloromethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | 07/09/2002 | 07/09/2002 | | |
| Bromoform | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Bromomethane | UG/KG | ND | 12 | ND | 10 | ND | 13 | | | | |
| 2-Butanone | UG/KG | ND | 31 | ND | 26 | ND | 32 | | | | |
| Carbon Disulfide | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Carbon Tetrachloride | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Chloromethane | UG/KG | ND | 12 | ND | 10 | ND | 13 | | | | |
| Chlorobenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Chloroethane | UG/KG | ND | 12 | ND | 10 | ND | 13 | | | | |
| Cyclohexane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Chloroform | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,2-Dibromo-3-chloropropane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Dibromochloromethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Dichlorodifluoromethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,2-Dibromoethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,2-Dichlorobenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,3-Dichlorobenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,4-Dichlorobenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,1-Dichloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,1-Dichloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,1-Dichloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| cis-1,2-Dichloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| trans-1,2-Dichloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,2-Dichloropropane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| cis-1,3-Dichloropropane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| trans-1,3-Dichloropropane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Ethylbenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 2-Hexanone | UG/KG | ND | 12 | ND | 10 | ND | 13 | | | | |
| Isopropylbenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Methyl acetate | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Methylene chloride | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Methyl tert butyl ether | UG/KG | ND | 31 | ND | 26 | ND | 32 | | | | |
| 4-Methyl-2-pentanone | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Methylcyclohexane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Styrene | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,1,2,2-Tetrachloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Tetrachloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| Toluene | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,2,4-Trichlorobenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,1,1-Trichloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |
| 1,1,2-Trichloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | | | | |

000012

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7

8

9

000012

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---------------------------------------|--------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | | | | | | | | | | |
| Sample Date | | | | | | | | | | |
| Analyte | | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 6 |
| Trichloroethene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 6 |
| Trichlorofluoromethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 6 |
| Vinyl chloride | | UG/KG | ND | 12 | ND | 12 | ND | 13 | ND | 12 |
| Total Xylenes | | UG/KG | ND | 18 | ND | 18 | ND | 19 | ND | 18 |
| m-Propylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 6 |
| p-Cymene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 6 |
| 1,2,4-Trimethylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 6 |
| 1,3,5-Trimethylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 6 |
| n-Butylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 6 |
| sec-Butylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 6 |
| IS/SURROGATE(S) | | | | | | | | | | |
| Chlorobenzene-D5 | | % | 86 | 50-200 | 90 | 50-200 | 88 | 50-200 | 89 | 50-200 |
| 1,4-Difluorobenzene | | % | 90 | 50-200 | 90 | 50-200 | 93 | 50-200 | 90 | 50-200 |
| 1,4-Dichlorobenzene-D4 | | % | 67 | 50-200 | 74 | 50-200 | 68 | 50-200 | 75 | 50-200 |
| Toluene-D8 | | % | 182 | 78-118 | 95 | 78-118 | 97 | 78-118 | 99 | 78-118 |
| p-Bromofluorobenzene | | % | 104 | 67-118 | 98 | 67-118 | 100 | 67-118 | 98 | 67-118 |
| 1,2-Dichloroethane-D4 | | % | 90 | 63-133 | 81 | 63-133 | 82 | 63-133 | 82 | 63-133 |

000013

| Client ID Job No Sample Date | Lab ID | S07102EJ09 8-10 A02-7056 07/11/2002 | S0712021M030-10 A02-7130 07/12/2002 | S071502EJ13 10-12 A02-7365 07/15/2002 | S071602EJ12 12-14 A02-7365 07/16/2002 | Reporting Limit |
|------------------------------------|--------|---|---|---|---|--------------------|
| Acetone | UG/KG | ND | ND | ND | ND | 3400 |
| Benzene | UG/KG | ND | ND | ND | ND | 680 |
| Bromodichloromethane | UG/KG | ND | ND | ND | ND | 680 |
| Bromoform | UG/KG | ND | ND | ND | ND | 680 |
| Bromomethane | UG/KG | ND | ND | ND | ND | 1400 |
| 2-Butanone | UG/KG | ND | ND | ND | ND | 3400 |
| Carbon Disulfide | UG/KG | ND | ND | ND | ND | 680 |
| Carbon Tetrachloride | UG/KG | ND | ND | ND | ND | 680 |
| Chloromethane | UG/KG | ND | ND | ND | ND | 1400 |
| Chloroethane | UG/KG | ND | ND | ND | ND | 680 |
| Cyclohexane | UG/KG | ND | ND | ND | ND | 680 |
| Chloroform | UG/KG | ND | ND | ND | ND | 680 |
| 1,2-Dibromo-3-chloropropane | UG/KG | ND | ND | ND | ND | 680 |
| Dibromochloromethane | UG/KG | ND | ND | ND | ND | 680 |
| Dichlorodifluoromethane | UG/KG | ND | ND | ND | ND | 680 |
| 1,2-Dibromoethane | UG/KG | ND | ND | ND | ND | 680 |
| 1,2-Dichlorobenzene | UG/KG | ND | ND | ND | ND | 680 |
| 1,3-Dichlorobenzene | UG/KG | ND | ND | ND | ND | 680 |
| 1,4-Dichlorobenzene | UG/KG | ND | ND | ND | ND | 680 |
| 1,1-Dichloroethane | UG/KG | ND | ND | ND | ND | 680 |
| 1,2-Dichloroethane | UG/KG | ND | ND | ND | ND | 680 |
| 1,1-Dichloroethene | UG/KG | ND | ND | ND | ND | 680 |
| cis-1,2-Dichloroethene | UG/KG | ND | ND | ND | ND | 680 |
| trans-1,2-Dichloroethene | UG/KG | ND | ND | ND | ND | 680 |
| 1,2-Dichloropropane | UG/KG | ND | ND | ND | ND | 680 |
| cis-1,3-Dichloropropene | UG/KG | ND | ND | ND | ND | 680 |
| trans-1,3-Dichloropropene | UG/KG | ND | ND | ND | ND | 680 |
| Ethylbenzene | UG/KG | ND | ND | ND | ND | 680 |
| 2-Hexanone | UG/KG | ND | ND | ND | ND | 1400 |
| Isopropylbenzene | UG/KG | ND | ND | ND | ND | 680 |
| Methyl acetate | UG/KG | ND | ND | ND | ND | 680 |
| Methylene chloride | UG/KG | ND | ND | ND | ND | 680 |
| Methyl tert butyl ether | UG/KG | ND | ND | ND | ND | 680 |
| 4-Methyl-2-pentanone | UG/KG | ND | ND | ND | ND | 680 |
| Methylcyclohexane | UG/KG | ND | ND | ND | ND | 680 |
| Styrene | UG/KG | ND | ND | ND | ND | 3400 |
| 1,1,2,2-Tetrachloroethane | UG/KG | ND | ND | ND | ND | 680 |
| Tetrachloroethene | UG/KG | ND | ND | ND | ND | 680 |
| Toluene | UG/KG | ND | ND | ND | ND | 680 |
| 1,2,4-Trichlorobenzene | UG/KG | ND | ND | ND | ND | 680 |
| 1,1,1-Trichloroethane | UG/KG | ND | ND | ND | ND | 680 |
| 1,1,2-Trichloroethane | UG/KG | ND | ND | ND | ND | 680 |

000014

Date: 08/26/2002
Time: 12:04:10

Bergmann Assoc. - Gowanda Day Habilitation Center
SMB463 DELIVERABLES
BERG - SOIL METHOD 8260 - TCL VOMAS + STARS

Rept: AN0326

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---------------------------------------|--------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | | | | | | | | | | |
| Sample Date | | | | | | | | | | |
| Analyte | | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 680 |
| Trichloroethene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | 3300 | 680 |
| Trichlorofluoromethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 680 |
| Vinyl chloride | | UG/KG | ND | 12 | ND | 11 | ND | 11 | ND | 1400 |
| Total Xylenes | | UG/KG | ND | 18 | ND | 16 | ND | 16 | ND | 2000 |
| m-Propylbenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 680 |
| p-Dymene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 680 |
| 1,2,4-Trimeethylbenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 680 |
| 1,3,5-Trimeethylbenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 680 |
| m-Butylbenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 680 |
| sec-Butylbenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 680 |
| -18/SURROGATE(S) | | | | | | | | | | |
| Chlorobenzene-D5 | | % | 46 | 50-200 | 90 | 50-200 | 89 | 50-200 | 77 | 50-200 |
| 1,4-Difluorobenzene | | % | 59 | 50-200 | 90 | 50-200 | 92 | 50-200 | 80 | 50-200 |
| 1,4-Dichlorobenzene-D4 | | % | 64 | 50-200 | 74 | 50-200 | 84 | 50-200 | 61 | 50-200 |
| Toluene-D8 | | % | 98 | 78-118 | 98 | 78-118 | 96 | 78-118 | 102 | 78-118 |
| p-Bromofluorobenzene | | % | 99 | 67-118 | 96 | 67-118 | 90 | 67-118 | 105 | 67-118 |
| 1,2-Dichloroethane-D4 | | % | 88 | 63-133 | 92 | 63-133 | 89 | 63-133 | 116 | 63-133 |

000015

| Client ID Job No Sample Date | Lab ID | Units | S071702EJ11 9-11 A02-7365 07/17/2002 | S071802EJ14 10-12 A02-7365 07/18/2002 | S072302EJ25 9-11 A02-7638 07/23/2002 | S072302EJ25 9-11 R1 A02-7638 07/23/2002 | Reporting Limit |
|------------------------------------|--------|-------|--|---|--|---|-----------------|
| Acetone | UG/KG | ND | ND | ND | ND | ND | 51 |
| Benzene | UG/KG | ND | ND | ND | ND | ND | 6 |
| Bromodichloromethane | UG/KG | ND | ND | ND | ND | ND | 6 |
| Bromochloromethane | UG/KG | ND | ND | ND | ND | ND | 6 |
| Bromoform | UG/KG | ND | ND | ND | ND | ND | 6 |
| Bromomethane | UG/KG | ND | ND | ND | ND | ND | 12 |
| 2-Butanone | UG/KG | ND | ND | ND | ND | ND | 31 |
| Carbon Disulfide | UG/KG | ND | ND | ND | ND | ND | 6 |
| Carbon Tetrachloride | UG/KG | ND | ND | ND | ND | ND | 6 |
| Chloromethane | UG/KG | ND | ND | ND | ND | ND | 12 |
| Chlorobenzene | UG/KG | ND | ND | ND | ND | ND | 6 |
| Chloroethane | UG/KG | ND | ND | ND | ND | ND | 12 |
| Cyclohexane | UG/KG | ND | ND | ND | ND | ND | 6 |
| Chloroform | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,2-Dibromo-3-chloropropane | UG/KG | ND | ND | ND | ND | ND | 6 |
| Dibromochloromethane | UG/KG | ND | ND | ND | ND | ND | 6 |
| Dichlorodifluoromethane | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,2-Dibromoethane | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,2-Dichlorobenzene | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,3-Dichlorobenzene | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,4-Dichlorobenzene | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,1-Dichloroethane | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,1-Dichloroethene | UG/KG | ND | ND | ND | ND | ND | 6 |
| cis-1,2-Dichloroethene | UG/KG | 110 | 12 | ND | ND | ND | 6 |
| trans-1,2-Dichloroethene | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,2-Dichloropropane | UG/KG | ND | ND | ND | ND | ND | 6 |
| cis-1,3-Dichloropropene | UG/KG | ND | ND | ND | ND | ND | 6 |
| trans-1,3-Dichloropropene | UG/KG | ND | ND | ND | ND | ND | 6 |
| Ethylbenzene | UG/KG | ND | ND | ND | ND | ND | 6 |
| 2-Hexanone | UG/KG | ND | ND | ND | ND | ND | 12 |
| Isopropylbenzene | UG/KG | ND | ND | ND | ND | ND | 6 |
| Methyl acetate | UG/KG | ND | ND | ND | ND | ND | 6 |
| Methylene chloride | UG/KG | ND | ND | ND | ND | ND | 6 |
| Methyl tert butyl ether | UG/KG | ND | ND | ND | ND | ND | 6 |
| 4-Methyl-2-pentanone | UG/KG | ND | ND | ND | ND | ND | 6 |
| Methylcyclohexane | UG/KG | ND | ND | ND | ND | ND | 6 |
| Styrene | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,1,2,2-Tetrachloroethane | UG/KG | ND | ND | ND | ND | ND | 32 |
| Tetrachloroethene | UG/KG | ND | ND | ND | ND | ND | 6 |
| Toluene | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,2,4-Trichlorobenzene | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,1,1-Trichloroethane | UG/KG | ND | ND | ND | ND | ND | 6 |
| 1,1,2-Trichloroethane | UG/KG | ND | ND | ND | ND | ND | 6 |

006018

Date: 08/26/2002
Time: 12:04:10

Bergmann Assoc. - Gowanda Day Rehabilitation Center
SMB463 DELIVERABLES
BERG - SOIL METHOD 8260 - TCL VDAS + STARS

Rept: AMD326

| Client ID | Lab ID | S071702EJ11 9-11 | S071802EJ14 10-12 | S072302EJ25 9-11 | S072302EJ25 9-11 | S072302EJ25 9-11 RI |
|--------------------------------|--------|------------------|-------------------|------------------|------------------|---------------------|
| Job No | | A02-7365 | A02-7365 | A02-7638 | A02-7638 | A02-7638 |
| Sample Date | | 07/17/2002 | 07/18/2002 | 07/23/2002 | 07/23/2002 | 07/23/2002 |
| Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value |
| | | | | | | Reporting Limit |
| 1,1,2-Trichloro-1,2,2-trifluor | UG/KG | ND | 28 | ND | 6 | 6 |
| Trichloroethene | UG/KG | 480 | 28 | ND | 6 | 6 |
| Trichlorofluoromethane | UG/KG | ND | 28 | ND | 6 | 6 |
| Vinyl chloride | UG/KG | ND | 57 | ND | 12 | 13 |
| Total Xylenes | UG/KG | ND | 55 | ND | 18 | 19 |
| n-Propylbenzene | UG/KG | ND | 28 | ND | 6 | 6 |
| p-Cymene | UG/KG | ND | 28 | ND | 6 | 6 |
| 1,2,4-Trimethylbenzene | UG/KG | ND | 28 | ND | 6 | 6 |
| 1,3,5-Trimethylbenzene | UG/KG | ND | 28 | ND | 6 | 6 |
| n-Butylbenzene | UG/KG | ND | 28 | ND | 6 | 6 |
| sec-Butylbenzene | UG/KG | ND | 28 | ND | 6 | 6 |
| IS/SURROGATE(S) | | | | | | |
| Chlorobenzene-D5 | % | 93 | 50-200 | 97 | 50-200 | 50-200 |
| 1,4-Difluorobenzene | % | 94 | 50-200 | 96 | 50-200 | 50-200 |
| 1,4-Dichlorobenzene-D4 | % | 87 | 50-200 | 101 | 50-200 | 50-200 |
| Toluene-D8 | % | 94 | 78-118 | 94 | 78-118 | 78-118 |
| p-Bromofluorobenzene | % | 89 | 67-118 | 84 | 67-118 | 67-118 |
| 1,2-Dichloroethane-D4 | % | 85 | 63-133 | 87 | 63-133 | 63-133 |
| | | | | 50 * | 50-200 | 50-200 |
| | | | | 29 * | 50-200 | 50-200 |
| | | | | 27 * | 50-200 | 50-200 |
| | | | | 92 | 78-118 | 78-118 |
| | | | | 86 | 67-118 | 67-118 |
| | | | | 102 | 63-133 | 63-133 |

000017

NA = Not Applicable ND = Not Detected

STL Buffalo

| Client ID | Lab ID | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---|---|---|--|---|---|--|---|---|--|
| S072302EJ250 9-11 A02-7638 07/23/2002 | S072302EJ26 11-12 A02-7638 07/23/2002 | S072302EJ28 11-12 A02-7638 07/23/2002 | S072402EJ08 9-10 A02-7638 07/24/2002 | S072302EJ26 11-12 A02-7638 07/23/2002 | S072302EJ28 11-12 A02-7638 07/23/2002 | S072402EJ08 9-10 A02-7638 07/24/2002 | S072302EJ26 11-12 A02-7638 07/23/2002 | S072302EJ28 11-12 A02-7638 07/23/2002 | S072402EJ08 9-10 A02-7638 07/24/2002 |
| Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
| Acetone | UG/KG | ND | 40 | ND | 27 | ND | 28 | ND | 25 |
| Benzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Bromodichloromethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Bromoform | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Bromomethane | UG/KG | ND | 12 | ND | 11 | ND | 11 | ND | 10 |
| 2-Butanone | UG/KG | ND | 30 | ND | 27 | ND | 28 | ND | 25 |
| Carbon Disulfide | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Carbon Tetrachloride | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Chloroethane | UG/KG | ND | 12 | ND | 11 | ND | 11 | ND | 10 |
| Chlorobenzene | UG/KG | ND | 12 | ND | 11 | ND | 11 | ND | 10 |
| Cyclohexane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Chloroform | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2-Dibromo-3-chloropropane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Dibromochloromethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Dichlorodifluoromethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2-Dibromoethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2-Dichlorobenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,3-Dichlorobenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,4-Dichlorobenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,1-Dichloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2-Dichloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,1-Dichloroethene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| cis-1,2-Dichloroethene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| trans-1,2-Dichloroethene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2-Dichloropropane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| cis-1,3-Dichloropropene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| trans-1,3-Dichloropropene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Ethylbenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 2-Hexanone | UG/KG | ND | 12 | ND | 11 | ND | 11 | ND | 10 |
| Isopropylbenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Methyl acetate | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Methylene chloride | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Methyl tert butyl ether | UG/KG | ND | 30 | ND | 27 | ND | 28 | ND | 25 |
| 4-Methyl-2-pentanone | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Methylcyclohexane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Styrene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,1,2,2-Tetrachloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Tetrachloroethene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Toluene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2,4-Trichlorobenzene | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,1,1-Trichloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,1,2-Trichloroethane | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |

000018

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---------------------------------------|--------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | | | | | | | | | | |
| Sample Date | | | | | | | | | | |
| | | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Trichloroethene | | UG/KG | 11 | 6 | 160 | 5 | 6 | 6 | ND | 5 |
| Trichlorofluoromethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Vinyl chloride | | UG/KG | ND | 12 | ND | 11 | 11 | 11 | ND | 10 |
| Total Xylenes | | UG/KG | ND | 18 | ND | 16 | 16 | 16 | ND | 15 |
| n-Propylbenzene | | UG/KG | ND | 6 | ND | 5 | 5 | 6 | ND | 5 |
| p-Toluene | | UG/KG | ND | 6 | ND | 5 | 5 | 6 | ND | 5 |
| 1,2,4-Trimethylbenzene | | UG/KG | ND | 6 | ND | 5 | 5 | 6 | ND | 5 |
| 1,3,5-Trimethylbenzene | | UG/KG | ND | 6 | ND | 5 | 5 | 6 | ND | 5 |
| n-Butylbenzene | | UG/KG | ND | 6 | ND | 5 | 5 | 6 | ND | 5 |
| sec-Butylbenzene | | UG/KG | ND | 6 | ND | 5 | 5 | 6 | ND | 5 |
| -18/SURROGATE(S) | | | | | | | | | | |
| Chlorobenzene-D5 | | % | 59 | 50-200 | 71 | 50-200 | 94 | 50-200 | 68 | 50-200 |
| 1,4-Difluorobenzene | | % | 56 | 50-200 | 69 | 50-200 | 92 | 50-200 | 67 | 50-200 |
| 1,4-Dichlorobenzene-D4 | | % | 53 | 50-200 | 66 | 50-200 | 85 | 50-200 | 64 | 50-200 |
| Toluene-D8 | | % | 93 | 78-118 | 94 | 78-118 | 92 | 78-118 | 96 | 78-118 |
| p-Bromofluorobenzene | | % | 81 | 67-118 | 81 | 67-118 | 84 | 67-118 | 84 | 67-118 |
| 1,2-Dichloroethane-D4 | | % | 94 | 63-133 | 90 | 63-133 | 86 | 63-133 | 91 | 63-133 |

000019

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|--|----------|-------|--------------|-----------------|--------------|-----------------|--|-----------------|---|-----------------|
| S072402EJ19 8-10 A02-7638 07/24/2002 | A2763807 | UG/KG | ND | 29 | ND | 27 | S072502EJ02 8-10 A02-763B 07/25/2002 | 65 | S072502EJ23 10-11 A02-763B 07/25/2002 | 27 |
| Acetone | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Benzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Bromodichloromethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Bromoform | | UG/KG | ND | 12 | ND | 11 | ND | 12 | ND | 11 |
| Bromomethane | | UG/KG | ND | 29 | ND | 27 | ND | 31 | ND | 27 |
| 2-Butanone | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Carbon Disulfide | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Carbon Tetrachloride | | UG/KG | ND | 12 | ND | 11 | ND | 12 | ND | 11 |
| Chloromethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Chlorobenzene | | UG/KG | ND | 12 | ND | 11 | ND | 12 | ND | 11 |
| Chloroethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Cyclohexane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Chloroform | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2-Dibromo-3-chloropropane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Dibromochloromethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Dichlorodifluoromethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2-Dibromoethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2-Dichlorobenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,3-Dichlorobenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,4-Dichlorobenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,1-Dichloroethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2-Dichloroethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,1-Dichloroethene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| cis-1,2-Dichloroethene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| trans-1,2-Dichloroethene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2-Dichloropropane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| cis-1,3-Dichloropropene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| trans-1,3-Dichloropropene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Ethylbenzene | | UG/KG | ND | 12 | ND | 11 | ND | 12 | ND | 11 |
| 2-Hexanone | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Isopropylbenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Methyl acetate | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Methylene chloride | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Methyl tert butyl ether | | UG/KG | ND | 29 | ND | 27 | ND | 31 | ND | 27 |
| 4-Methyl-2-pentanone | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Methylcyclohexane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Styrene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,1,2,2-Tetrachloroethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Tetrachloroethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| Toluene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,2,4-Trichlorobenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,1,1-Trichloroethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |
| 1,1,2-Trichloroethane | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 5 |

000020

Date: 08/26/2002
Time: 12:04:10

Bergmann Assoc. - Gowanda Day Habilitation Center
SM9443 DELIVERABLES
BERG - SOIL METHOD B260 - TCL VOMS + STARS

Rept: AHD326

| Client ID Job No Sample Date | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---|----------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| 5072402EJ19 8-10 A02-7639 07/24/2002 | A2763807 | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 50-200 |
| 1,1,2-Trichloro-1,2,2-trifluor | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 50-200 |
| Trichloroethene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 50-200 |
| Trichlorofluoromethane | | UG/KG | ND | 12 | ND | 11 | ND | 12 | ND | 50-200 |
| Vinyl chloride | | UG/KG | ND | 17 | ND | 16 | ND | 18 | ND | 78-118 |
| Total Xylenes | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 78-118 |
| n-Propylbenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 67-118 |
| p-Cymene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 63-133 |
| 1,2,4-Trimethylbenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 50-200 |
| 1,3,5-Trimethylbenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 50-200 |
| n-Butylbenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 78-118 |
| sec-Butylbenzene | | UG/KG | ND | 6 | ND | 5 | ND | 6 | ND | 67-118 |
| IS/SURROGATE(S) | | | ND | 6 | ND | 5 | ND | 6 | ND | 63-133 |
| Chlorobenzene-05 | | % | 93 | 50-200 | 103 | 50-200 | 68 | 50-200 | 74 | 50-200 |
| 1,4-Difluorobenzene | | % | 90 | 50-200 | 104 | 50-200 | 65 | 50-200 | 72 | 50-200 |
| 1,4-Dichlorobenzene-04 | | % | 84 | 50-200 | 93 | 50-200 | 61 | 50-200 | 66 | 50-200 |
| Toluene-D8 | | % | 93 | 78-118 | 94 | 78-118 | 96 | 78-118 | 89 | 78-118 |
| p-Bromofluorobenzene | | % | 84 | 67-118 | 82 | 67-118 | 81 | 67-118 | 81 | 67-118 |
| 1,2-Dichloroethane-04 | | % | 87 | 63-133 | 90 | 63-133 | 90 | 63-133 | 86 | 63-133 |
| 5072502EJ02 8-10 A02-7638 07/25/2002 | A2763808 | | | | | | | | | |
| 5072502EJ23 10-11 A02-7638 07/25/2002 | A2763809 | | | | | | | | | |

000021

| Client ID Job No Sample Date | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|--|----------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| S072502E+23D 10-11 A02-763B 07/25/2002 | A2763811 | UG/KG | ND | 30 | ND | 34 | ND | 34 | ND | 27 |
| Acetone | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 27 |
| Benzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Bromodichloromethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Bromochloromethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Bromoform | | UG/KG | ND | 12 | ND | 11 | ND | 11 | ND | 11 |
| Bromomethane | | UG/KG | ND | 30 | ND | 28 | ND | 28 | ND | 27 |
| 2-Butanone | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Carbon Disulfide | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Carbon Tetrachloride | | UG/KG | ND | 12 | ND | 11 | ND | 11 | ND | 11 |
| Chloromethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Chlorobenzene | | UG/KG | ND | 12 | ND | 11 | ND | 11 | ND | 11 |
| Chloroethane | | UG/KG | ND | 12 | ND | 11 | ND | 11 | ND | 11 |
| Cyclohexane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Chloroform | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,2-Dibromo-3-chloropropane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Dibromochloromethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Dichlorodifluoromethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,2-Dibromoethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,2-Dichlorobenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,3-Dichlorobenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,4-Dichlorobenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,1-Dichloroethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,1-Dichloroethene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,1-Dichloroethene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| cis-1,2-Dichloroethene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| trans-1,2-Dichloroethene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,2-Dichloropropane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| cis-1,3-Dichloropropene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| trans-1,3-Dichloropropene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Ethylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 2-Hexanone | | UG/KG | ND | 12 | ND | 11 | ND | 11 | ND | 11 |
| Isopropylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Methyl acetate | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Methylene chloride | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Methyl tert butyl ether | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 4-Methyl-2-pentanone | | UG/KG | ND | 30 | ND | 28 | ND | 28 | ND | 27 |
| Methylcyclohexane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Styrene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,1,2,2-Tetrachloroethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Tetrachloroethene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| Toluene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,2,4-Trichlorobenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,1,1-Trichloroethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |
| 1,1,2-Trichloroethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 | ND | 5 |

000022

Date: 09/26/2002
Time: 12:04:10

Bergmann Assoc. - Gowanda Day Rehabilitation Center
SV8463 DELIVERABLES
BERG - SOIL METHOD 8260 - TCL VOAS + STARS

Rept: AND326

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---------------------------------------|------------|----------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No Sample Date | | | | | | | | |
| S072502EJ230 | A02-7638 | 10-11 | ND | 6 | ND | 6 | ND | 6 |
| A02-7638 | A02-7638 | 12-14 | ND | 6 | ND | 6 | ND | 6 |
| 07/25/2002 | 07/26/2002 | A2763811 | ND | 6 | ND | 6 | ND | 6 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| Trichloroethene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| Trichlorofluoromethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| Vinyl chloride | | UG/KG | ND | 12 | ND | 12 | ND | 12 |
| Total xylenes | | UG/KG | ND | 18 | ND | 18 | ND | 18 |
| n-Propylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| p-Cymene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| 1,2,4-Trimethylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| 1,3,5-Trimethylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| n-Butylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| sec-Butylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| -15/SURRGATE(S) | | | | | | | | |
| Chlorobenzene-B5 | | % | 92 | 50-200 | 103 | 50-200 | 70 | 50-200 |
| 1,4-Difluorobenzene | | % | 89 | 50-200 | 102 | 50-200 | 67 | 50-200 |
| 1,4-Dichlorobenzene-D4 | | % | 80 | 50-200 | 94 | 50-200 | 63 | 50-200 |
| Toluene-D8 | | % | 92 | 78-118 | 94 | 78-118 | 94 | 78-118 |
| p-Bromofluorobenzene | | % | 82 | 67-118 | 85 | 67-118 | 81 | 67-118 |
| 1,2-Dichloroethane-D4 | | % | 85 | 63-133 | 94 | 63-133 | 90 | 63-133 |
| S072602EJ27 | A02-7638 | 12-13 | ND | 5 | ND | 5 | ND | 5 |
| A02-7638 | A02-7638 | A2763810 | ND | 5 | ND | 5 | ND | 5 |
| 07/26/2002 | 07/26/2002 | | 130 | 5 | ND | 5 | ND | 5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| Trichloroethene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| Trichlorofluoromethane | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| Vinyl chloride | | UG/KG | ND | 11 | ND | 11 | ND | 11 |
| Total xylenes | | UG/KG | ND | 16 | ND | 16 | ND | 16 |
| n-Propylbenzene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| p-Cymene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| 1,2,4-Trimethylbenzene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| 1,3,5-Trimethylbenzene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| n-Butylbenzene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| sec-Butylbenzene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| S073002EJ07 | A02-7821 | 16-17-5 | ND | 5 | ND | 5 | ND | 5 |
| A02-7821 | A02-7821 | A2782101 | ND | 5 | ND | 5 | ND | 5 |
| 07/30/2002 | 07/30/2002 | | 330 | 5 | ND | 5 | ND | 5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| Trichloroethene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| Trichlorofluoromethane | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| Vinyl chloride | | UG/KG | ND | 11 | ND | 11 | ND | 11 |
| Total xylenes | | UG/KG | ND | 16 | ND | 16 | ND | 16 |
| n-Propylbenzene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| p-Cymene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| 1,2,4-Trimethylbenzene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| 1,3,5-Trimethylbenzene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| n-Butylbenzene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| sec-Butylbenzene | | UG/KG | ND | 5 | ND | 5 | ND | 5 |
| S072602EJ20 | A02-7638 | 12-14 | ND | 6 | ND | 6 | ND | 6 |
| A02-7638 | A02-7638 | A2763812 | ND | 6 | ND | 6 | ND | 6 |
| 07/26/2002 | 07/26/2002 | | ND | 6 | ND | 6 | ND | 6 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| Trichloroethene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| Trichlorofluoromethane | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| Vinyl chloride | | UG/KG | ND | 12 | ND | 12 | ND | 12 |
| Total xylenes | | UG/KG | ND | 18 | ND | 18 | ND | 18 |
| n-Propylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| p-Cymene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| 1,2,4-Trimethylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| 1,3,5-Trimethylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| n-Butylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| sec-Butylbenzene | | UG/KG | ND | 6 | ND | 6 | ND | 6 |
| S072602EJ27 | A02-7638 | 12-13 | ND | 5 | ND | 5 | ND | 5 |
| A02-7638 | A02-7638 | A2763810 | ND | 5 | ND | 5 | ND | 5 |
| 07/26/2002 | 07/26/2002 | | 70 | 50-200 | 70 | 50-200 | 50-200 | 50-200 |
| Chlorobenzene-B5 | | % | 30 | 50-200 | 30 | 50-200 | 30 | 50-200 |
| 1,4-Difluorobenzene | | % | 26 | 50-200 | 26 | 50-200 | 26 | 50-200 |
| 1,4-Dichlorobenzene-D4 | | % | 93 | 78-118 | 93 | 78-118 | 93 | 78-118 |
| Toluene-D8 | | % | 79 | 67-118 | 79 | 67-118 | 79 | 67-118 |
| p-Bromofluorobenzene | | % | 104 | 63-133 | 104 | 63-133 | 104 | 63-133 |
| 1,2-Dichloroethane-D4 | | % | | | | | | |

000023

NA = Not Applicable ND = Not Detected

STL Buffalo

| Client ID | Lab ID | Sample Date | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---------------------------------------|--------|-------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | | ND | 25 | ND | 7 | ND | 810 | ND | 5 |
| Trichloroethene | | | 330 D | 25 | ND | 7 | 810 | ND | 5 | 5 |
| Trichlorofluoromethane | | | ND | 25 | ND | 7 | 810 | ND | 5 | 5 |
| Vinyl chloride | | | ND | 50 | ND | 13 | 1600 | ND | 10 | 10 |
| Total Xylenes | | | ND | 75 | ND | 20 | 2400 | ND | 16 | 16 |
| m-Propylbenzene | | | ND | 25 | ND | 7 | 810 | ND | 5 | 5 |
| p-Cymene | | | ND | 25 | ND | 7 | 810 | ND | 5 | 5 |
| 1,2,4-Trimethylbenzene | | | ND | 25 | ND | 7 | 810 | ND | 5 | 5 |
| 1,3,5-Trimethylbenzene | | | ND | 25 | ND | 7 | 810 | ND | 5 | 5 |
| n-Butylbenzene | | | ND | 25 | ND | 7 | 810 | ND | 5 | 5 |
| sec-Butylbenzene | | | ND | 25 | ND | 7 | 810 | ND | 5 | 5 |
| IS/SURROGATE(S) | | | | | | | | | | |
| Chlorobenzene-05 | | | 82 | 50-200 | 79 | 50-200 | 96 | 50-200 | 93 | 50-200 |
| 1,4-Difluorobenzene | | | 85 | 50-200 | 80 | 50-200 | 102 | 50-200 | 91 | 50-200 |
| 1,4-Dichlorobenzene-D4 | | | 71 | 50-200 | 69 | 50-200 | 89 | 50-200 | 82 | 50-200 |
| Toluene-08 | | | 101 | 78-118 | 96 | 78-118 | 92 | 78-118 | 94 | 78-118 |
| p-Bromofluorobenzene | | | 82 | 67-118 | 78 | 67-118 | 76 | 67-118 | 81 | 67-118 |
| 1,2-Dichloroethane-04 | | | 91 | 63-133 | 98 | 63-133 | 92 | 63-133 | 95 | 63-133 |

000025

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | S073102EJ24 1B-20 A02-7821 07/30/2002 | S073102EJ24 1B-20 A02-7821 07/30/2002 | S071902EJ G-S A02-7365 07/19/2002 | S071902EJ GARDEN-N A02-7365 07/19/2002 | Reporting Limit | Sample Value | Reporting Limit |
|-----------------------------|--------|-------|--------------|-----------------|---|---|---|--|-----------------|--------------|-----------------|
| Acetone | | UG/KG | ND | 27 | ND | ND | ND | ND | 27 | ND | 26 |
| Benzene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Bromodichloromethane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Bromoform | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Bromomethane | | UG/KG | ND | 11 | ND | ND | ND | ND | 11 | ND | 10 |
| 2-Butanone | | UG/KG | ND | 27 | ND | ND | ND | ND | 27 | ND | 26 |
| Carbon Disulfide | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Carbon Tetrachloride | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Chloromethane | | UG/KG | ND | 11 | ND | ND | ND | ND | 11 | ND | 10 |
| Chlorobenzene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Chloroethane | | UG/KG | ND | 11 | ND | ND | ND | ND | 11 | ND | 10 |
| Cyclohexane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Chloroform | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,2-Dibromo-3-chloropropane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Dibromochloromethane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Dichlorodifluoromethane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,2-Dibromoethane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,3-Dichlorobenzene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,4-Dichlorobenzene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,1-Dichloroethane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,2-Dichloroethane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,1-Dichloroethene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| cis-1,2-Dichloroethene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| trans-1,2-Dichloroethene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,2-Dichloropropane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| cis-1,3-Dichloropropene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| trans-1,3-Dichloropropene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Ethylbenzene | | UG/KG | ND | 11 | ND | ND | ND | ND | 11 | ND | 10 |
| 2-Hexanone | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Isopropylbenzene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Methyl acetate | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Methylene chloride | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Methyl tert butyl ether | | UG/KG | ND | 27 | ND | ND | ND | ND | 27 | ND | 26 |
| 4-Methyl-2-pentanone | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Methylcyclohexane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Styrene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,1,2,2-Tetrachloroethane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Tetrachloroethene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| Toluene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,2,4-Trichlorobenzene | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,1,1-Trichloroethane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |
| 1,1,2-Trichloroethane | | UG/KG | ND | 5 | ND | ND | ND | ND | 5 | ND | 5 |

000026

| Client ID Job No Sample Date | Lab ID | Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | | |
|---|-----------|--------------------------------|--------|--------------|-----------------|--------------|-----------------|--------------|-----------------|----|--------|
| SS071902EJ GARDEN-H A02-7365 07/19/2002 | A2736500B | 1,1,2-Trichloro-1,2,2-trifluor | UG/KG | ND | 25 | ND | 5 | ND | 5 | | |
| | | Trichloroethene | UG/KG | ND | 25 | ND | 5 | ND | 5 | | |
| | | Trichlorofluoromethane | UG/KG | ND | 25 | ND | 5 | ND | 5 | | |
| | | Vinyl chloride | UG/KG | ND | 50 | 11 | 10 | 11 | ND | 10 | |
| | | Total Xylenes | UG/KG | ND | 76 | 16 | 16 | 16 | ND | 16 | |
| | | n-Propylbenzene | UG/KG | ND | 25 | 5 | 5 | 5 | ND | 5 | |
| | | p-Dymene | UG/KG | ND | 25 | 5 | 5 | 5 | ND | 5 | |
| | | 1,2,4-Trimethylbenzene | UG/KG | ND | 25 | 5 | 5 | 5 | ND | 5 | |
| | | 1,3,5-Trimethylbenzene | UG/KG | ND | 25 | 5 | 5 | 5 | ND | 5 | |
| | | n-Butylbenzene | UG/KG | ND | 25 | 5 | 5 | 5 | ND | 5 | |
| | | sec-Butylbenzene | UG/KG | ND | 25 | 5 | 5 | 5 | ND | 5 | |
| | | (S/SURROGATE(S)) | | | | | | | | | |
| | | Chlorobenzene-D5 | % | 85 | 50-200 | 74 | 50-200 | 87 | 50-200 | 84 | 50-200 |
| | | 1,4-Difluorobenzene | % | 86 | 50-200 | 76 | 50-200 | 88 | 50-200 | 86 | 50-200 |
| 1,4-Dichlorobenzene-D4 | % | 72 | 50-200 | 64 | 50-200 | 80 | 50-200 | 75 | 50-200 | | |
| Toluene-D8 | % | 100 | 78-118 | 100 | 78-118 | 96 | 78-118 | 100 | 78-118 | | |
| p-Bromofluorobenzene | % | 83 | 67-118 | 79 | 67-118 | 92 | 67-118 | 93 | 67-118 | | |
| 1,2-Dichloroethane-D4 | % | 93 | 63-133 | 92 | 63-133 | 90 | 63-133 | 100 | 63-133 | | |

000027

| Client ID Job No Sample Date | Lab ID | Units | Sample value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|--|----------|-------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|
| W071902EJ15 FB A02-7365 07/19/2002 | A2736505 | | 16 J | 25 | | 25 | | |
| W072602EJ20 FB A02-7638 07/26/2002 | A2763813 | | | 25 | | 25 | | |
| W073102EJ01FB A02-7821 07/30/2002 | A2782105 | | | | | | | |
| Acetone | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Benzene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Bromodichloromethane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Bromoform | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Bromomethane | | UG/L | ND | 10 | ND | 10 | NA | |
| 2-Butanone | | UG/L | ND | 10 | ND | 10 | NA | |
| Carbon Disulfide | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Carbon Tetrachloride | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Chloromethane | | UG/L | ND | 10 | ND | 10 | NA | |
| Chlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Chloroethane | | UG/L | ND | 10 | ND | 10 | NA | |
| Cyclohexane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Chloroform | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,2-Dibromo-3-chloropropane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Dibromochloromethane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Dichlorodifluoromethane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,2-Dibromoethane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,2-Dichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,3-Dichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,4-Dichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,1-Dichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,2-Dichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,1-Dichloroethene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| cis-1,2-Dichloroethene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| trans-1,2-Dichloroethene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,2-Dichloropropane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| cis-1,3-Dichloropropane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| trans-1,3-Dichloropropane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Ethylbenzene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 2-Hexanone | | UG/L | ND | 10 | ND | 10 | NA | |
| Isopropylbenzene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Methyl acetate | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Methylene chloride | | UG/L | 3.0 BJ | 5.0 | 3.5 BJ | 5.0 | NA | |
| Methyl tert butyl ether | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 4-Methyl-2-pentanone | | UG/L | ND | 10 | ND | 10 | NA | |
| Methylcyclohexane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Styrene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,1,2,2-Tetrachloroethane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Tetrachloroethane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| Toluene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,2,4-Trichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,1,1-Trichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |
| 1,1,2-Trichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | NA | |

000028

Date: 08/26/2002
Time: 12:04:10

Bergmann Assoc. - Gowande Day Rehabilitation Center
SMB-63 DELIVERABLES
BERG -W- METH 8260 - ICL VOLATILE ORGANICS + STARS

Rept: AM0326

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|--|--|---|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| W071902EJ15 FB A02-7565 07/19/2002 | W072602EJ20 FB A02-7638 07/26/2002 | W073102EJ01FB A02-7821 07/30/2002 | A2736505 | A2763813 | A2782105 | UG/L | UG/L | UG/L |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | ND | 5.0 | 5.0 | ND | 5.0 | 5.0 | NA |
| Trichloroethene | ND | ND | 5.0 | 5.0 | ND | 5.0 | 5.0 | NA |
| Trichlorofluoromethane | ND | ND | 5.0 | 5.0 | ND | 5.0 | 5.0 | NA |
| Vinyl chloride | ND | ND | 5.0 | 5.0 | ND | 5.0 | 5.0 | NA |
| Total Xylenes | ND | ND | 15 | 15 | ND | 15 | 15 | NA |
| n-Propylbenzene | ND | ND | 5.0 | 5.0 | ND | 5.0 | 5.0 | NA |
| p-Cymene | ND | ND | 5.0 | 5.0 | ND | 5.0 | 5.0 | NA |
| 1,2,4-Trimethylbenzene | ND | ND | 5.0 | 5.0 | ND | 5.0 | 5.0 | NA |
| 1,3,5-Trimethylbenzene | ND | ND | 5.0 | 5.0 | ND | 5.0 | 5.0 | NA |
| n-Butylbenzene | ND | ND | 5.0 | 5.0 | ND | 5.0 | 5.0 | NA |
| sec-Butylbenzene | ND | ND | 5.0 | 5.0 | ND | 5.0 | 5.0 | NA |
| (S)/SURROGATE(S) | | | | | | | | |
| Chlorobenzene-05 | 85 | % | 50-200 | 50-200 | 79 | 50-200 | 50-200 | NA |
| 1,4-Difluorobenzene | 68 | % | 50-200 | 50-200 | 82 | 50-200 | 50-200 | NA |
| 1,4-Dichlorobenzene-D4 | 74 | % | 50-200 | 50-200 | 70 | 50-200 | 50-200 | NA |
| Toluene-D8 | 98 | % | 77-122 | 77-122 | 96 | 77-122 | 77-122 | NA |
| p-Bromofluorobenzene | 89 | % | 73-120 | 73-120 | 77 | 73-120 | 73-120 | NA |
| 1,2-Dichloroethane-D4 | 67 | % | 76-136 | 76-136 | 86 | 76-136 | 76-136 | NA |

000029

NA = Not Applicable ND = Not Detected STL Buffalo

| Client ID Job No Sample Date | Lab ID | W073102EJ01F9 A02-7B21 07/30/2002 | AZ7B2105 | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value |
|------------------------------------|--------|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
| Hexachloroethane | UG/L | ND | 10 | NA | | NA | | NA | |
| Indeno(1,2,3-cd)pyrene | UG/L | ND | 10 | NA | | NA | | NA | |
| Isopharone | UG/L | ND | 10 | NA | | NA | | NA | |
| 2-Methylnaphthalene | UG/L | ND | 10 | NA | | NA | | NA | |
| 4-Methylphenol | UG/L | ND | 10 | NA | | NA | | NA | |
| 2-Nitroaniline | UG/L | ND | 10 | NA | | NA | | NA | |
| 3-Nitroaniline | UG/L | ND | 69 | NA | | NA | | NA | |
| 4-Nitroaniline | UG/L | ND | 69 | NA | | NA | | NA | |
| Nitrobenzene | UG/L | ND | 10 | NA | | NA | | NA | |
| 2-Nitrophenol | UG/L | ND | 10 | NA | | NA | | NA | |
| 4-Nitrophenol | UG/L | ND | 69 | NA | | NA | | NA | |
| N-Nitrosodiphenylamine | UG/L | ND | 10 | NA | | NA | | NA | |
| M-Nitroso-Di-n-propylamine | UG/L | ND | 10 | NA | | NA | | NA | |
| Pentachlorophenol | UG/L | ND | 69 | NA | | NA | | NA | |
| Phenanthrene | UG/L | ND | 10 | NA | | NA | | NA | |
| Phenol | UG/L | ND | 10 | NA | | NA | | NA | |
| Pyrene | UG/L | ND | 10 | NA | | NA | | NA | |
| 1,2,4-Trichlorobenzene | UG/L | ND | 10 | NA | | NA | | NA | |
| 2,4,5-Trichlorophenol | UG/L | ND | 10 | NA | | NA | | NA | |
| 2,4,6-Trichlorophenol | UG/L | ND | 10 | NA | | NA | | NA | |
| IS/SURROGATE(S) | | | | | | | | | |
| 1,4-Dichlorobenzene-D4 | X | 101 | 50-200 | NA | | NA | | NA | |
| Naphthalene-DB | X | 95 | 50-200 | NA | | NA | | NA | |
| Acenaphthene-D10 | X | 89 | 50-200 | NA | | NA | | NA | |
| Phenanthrene-D10 | X | 95 | 50-200 | NA | | NA | | NA | |
| Chrysene-D12 | X | 93 | 50-200 | NA | | NA | | NA | |
| Perylene-D12 | X | 82 | 50-200 | NA | | NA | | NA | |
| Nitrobenzene-D5 | X | 68 | 24-125 | NA | | NA | | NA | |
| 2-Fluorobiphenyl | X | 91 | 25-125 | NA | | NA | | NA | |
| p-terphenyl-d14 | X | 98 | 19-152 | NA | | NA | | NA | |
| phenol-D5 | X | 30 | 10-110 | NA | | NA | | NA | |
| 2-Fluorophenol | X | 38 | 20-120 | NA | | NA | | NA | |
| 2,4,6-Tribromophenol | X | 103 | 28-152 | NA | | NA | | NA | |

000031

| Client ID Job No Sample Date | Lab ID | S070902EJ17 8-12 A02-7056 07/09/2002 | S072302EJ25 9-11 A02-7638 07/23/2002 | S072302EJ25D 9-11 A02-7638 07/23/2002 | S072302EJ25D 9-11 A02-7638 07/23/2002 | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value |
|------------------------------------|--------|--|--|---|---|-----------------|--------------|-----------------|--------------|-----------------|--------------|
| Analyte | Units | Sample Value | Sample Value | Sample Value | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value |
| Acenaphthene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Acenaphthylene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Anthracene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Benzof(a)anthracene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Benzof(b)fluoranthene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Benzof(k)fluoranthene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Benzofghi)perylene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Benzof(a)pyrene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Benzof(c)acid | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Benzof(c)alcohol | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Bis(2-chloroethoxy) methane | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Bis(2-chloroethyl) ether | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 2,2'-oxybis(1-Chloropropane) | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Bis(2-ethylhexyl) phthalate | UG/KG | 2400 | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 4-Bromophenyl phenyl ether | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Butyl benzyl phthalate | UG/KG | ND | 1700 J | ND | ND | 1800 | 730 0-2200 E | 380 | 7300 D | 760 | ND |
| 4-Chloroaniline | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 4-Chloro-3-methylphenol | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 2-Chlorophthalene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 2-Chlorophenol | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 4-Chlorophenyl phenyl ether | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Chrysene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Dibenzof(a,h)anthracene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Dibenzofuran | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Di-n-butyl phthalate | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 1,2-Dichlorobenzene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 1,3-Dichlorobenzene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 1,4-Dichlorobenzene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 3,3'-Oichlorobenzidine | UG/KG | ND | ND | ND | ND | 3700 | ND | 760 | ND | 1500 | ND |
| 2,4-Dichlorophenol | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Diethyl phthalate | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 2,4-Dimethylphenol | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Oimethyl phthalate | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 4,6-Dinitro-2-methylphenol | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 2,4-Dinitrotoluene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| 2,6-Dinitrotoluene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Di-n-octyl phthalate | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Fluorene | UG/KG | 3100 | 98 J | ND | ND | 1800 | 640 | 380 | 570 DJ | 760 | ND |
| Hexachlorobenzene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Hexachlorobutadiene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |
| Hexachlorocyclopentadiene | UG/KG | ND | ND | ND | ND | 1800 | ND | 380 | ND | 760 | ND |

Date: 08/26/2002
Time: 12:04:52

Bergmann Assoc. - Gowanda Day Habilitation Center
SUB#63 DELIVERABLES
BERG -S- METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AM0326

| Client ID Job No Sample Date | Lab ID | S070902EJ17 8-12 A02-7056 07/09/2002 | S072302EJ25 9-11 A02-7638 07/23/2002 | S072302EJ25 9-11 A02-7638 07/23/2002 | S072302EJ25 9-11 A02-7638 07/23/2002 | S072302EJ25 9-11 A02-7638 07/23/2002 | |
|------------------------------------|--------|--|--|--|--|--|-----------------|
| Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
| Hexachloroethane | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| Indeno(1,2,3-cd)pyrene | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| Isophorone | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| 2-Methylnaphthalene | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| 2-Methylphenol | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| 4-Methylphenol | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| Naphthalene | UG/KG | ND | 1900 | ND | 8900 | ND | 1800 |
| 2-Nitroaniline | UG/KG | ND | 1900 | ND | 8900 | ND | 1800 |
| 3-Nitroaniline | UG/KG | ND | 1900 | ND | 8900 | ND | 1800 |
| 4-Nitroaniline | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| Nitrobenzene | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| 2-Nitrophenol | UG/KG | ND | 1900 | ND | 8900 | ND | 1800 |
| 4-Nitrophenol | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| N-nitrosodiphenylamine | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| N-nitroso-di-n-propylamine | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| Pentachlorophenol | UG/KG | ND | 1900 | ND | 8900 | ND | 1800 |
| Phenanthrene | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| Phenol | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| Pyrene | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| 1,2,4-Trichlorobenzene | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| 2,4,5-Trichlorophenol | UG/KG | ND | 940 | ND | 4400 | ND | 920 |
| 2,4,6-Trichlorophenol | UG/KG | ND | 390 | ND | 1800 | ND | 380 |
| ---IS/SURROGATE(S) | | | | | | | |
| 1,4-Dichlorobenzene-D4 | % | 52 | 50-200 | 102 | 50-200 | 99 | 50-200 |
| Naphthalene-D8 | % | 63 | 50-200 | 96 | 50-200 | 96 | 50-200 |
| Acenaphthene-D10 | % | 66 | 50-200 | 93 | 50-200 | 96 | 50-200 |
| Phenanthrene-D10 | % | 66 | 50-200 | 95 | 50-200 | 103 | 50-200 |
| Chrysene-D12 | % | 63 | 50-200 | 90 | 50-200 | 98 | 50-200 |
| Perylene-D12 | % | 63 | 50-200 | 85 | 50-200 | 93 | 50-200 |
| Nitrobenzene-D5 | % | 72 | 21-120 | 62 | 21-120 | 76 | 21-120 |
| 2-Fluorobiphenyl | % | 73 | 27-128 | 90 | 27-128 | 98 | 27-128 |
| p-Terphenyl-d14 | % | 89 | 41-139 | 102 | 41-139 | 109 | 41-139 |
| Phenol-D5 | % | 111 | 18-139 | 67 | 18-139 | 79 | 18-139 |
| 2-Fluorophenol | % | 108 | 25-121 | 55 | 25-121 | 67 | 25-121 |
| 2,4,6-Tribromophenol | % | 85 | 34-147 | 68 | 34-147 | 100 | 34-147 |
| | | | | | | 92 | 50-200 |
| | | | | | | 87 | 50-200 |
| | | | | | | 86 | 50-200 |
| | | | | | | 90 | 50-200 |
| | | | | | | 91 | 50-200 |
| | | | | | | 92 | 50-200 |
| | | | | | | 75 | 21-120 |
| | | | | | | 102 | 27-128 |
| | | | | | | 118 | 41-139 |
| | | | | | | 79 | 18-139 |
| | | | | | | 70 | 25-121 |
| | | | | | | 108 | 34-147 |

000033

MA = Not Applicable ND = Not Detected

STL Buffalo

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|------------------------------|------------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | A02-7635 | | ND | 360 | ND | 3400 | NA | 3400 |
| Sample Date | 07/26/2002 | | ND | 360 | ND | 3400 | NA | 3400 |
| Analyte | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Acenaphthene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Acenaphthylene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Anthracene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Benzo(a)anthracene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Benzo(b)fluoranthene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Benzo(k)fluoranthene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Benzo(ghi)perylene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Benzo(a)pyrene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Benzoic acid | | UG/KG | ND | 1800 | ND | 16000 | NA | 16000 |
| Benzyl alcohol | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Bis(2-chloroethoxy) methane | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Bis(2-chloroethyl) ether | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 2,2'-Oxybis(1-chloropropane) | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Bis(2-ethylhexyl) phthalate | | UG/KG | 38 J | 360 | ND | 3400 | NA | 3400 |
| 4-Bromophenyl phenyl ether | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Butyl benzyl phthalate | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 4-Chloroaniline | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 4-Chloro-3-methylphenol | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 2-Chloronaphthalene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 2-Chlorophenol | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 4-Chlorophenyl phenyl ether | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Chrysene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Dibenz(a,h)anthracene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Dibenzofuran | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Di-n-butyl phthalate | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 1,2-Dichlorobenzene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 1,3-Dichlorobenzene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 1,4-Dichlorobenzene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 3,3'-Dichlorobenzidine | | UG/KG | ND | 730 | ND | 6800 | NA | 6800 |
| 2,4-Dichlorophenol | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Diethyl phthalate | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 2,4-Dimethylphenol | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Dimethyl phthalate | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 4,6-Dinitro-2-methylphenol | | UG/KG | ND | 1800 | ND | 16000 | NA | 16000 |
| 2,4-Dinitrophenol | | UG/KG | ND | 1800 | ND | 16000 | NA | 16000 |
| 2,4-Dinitrotoluene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| 2,6-Dinitrotoluene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Di-n-octyl phthalate | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Fluoranthene | | UG/KG | ND | 360 | 210 J | 3400 | NA | 3400 |
| Fluorene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Hexachlorobenzene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Hexachlorobutadiene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |
| Hexachlorocyclopentadiene | | UG/KG | ND | 360 | ND | 3400 | NA | 3400 |

| Client ID Job No Sample Date | Lab ID | Unit(s) | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|--|------------|---------|--------------|-----------------|---|-----------------|--------------|-----------------|
| S072402EJ21 B-10 A02-7638 07/24/2002 | A2763805RE | UG/KG | ND | 360 | SS071902EJ GARDEN-N A02-7365 07/19/2002 | 3400 | NA | NA |
| | | UG/KG | ND | 360 | | 3400 | NA | NA |
| | | UG/KG | ND | 360 | | 3400 | NA | NA |
| | | UG/KG | ND | 360 | | 3400 | NA | NA |
| | | UG/KG | ND | 360 | | 3400 | NA | NA |
| | | UG/KG | ND | 360 | | 3400 | NA | NA |
| | | UG/KG | ND | 1800 | | 16000 | NA | NA |
| | | UG/KG | ND | 1800 | | 16000 | NA | NA |
| | | UG/KG | ND | 360 | | 3400 | NA | NA |
| | | UG/KG | ND | 360 | | 3400 | NA | NA |
| | | UG/KG | ND | 1800 | | 16000 | NA | NA |
| | | UG/KG | ND | 360 | | 3400 | NA | NA |
| | | UG/KG | ND | 1800 | | 16000 | NA | NA |
| | | UG/KG | ND | 360 | | 3400 | NA | NA |
| | | UG/KG | ND | 360 | | 3400 | NA | NA |
| | | UG/KG | ND | 880 | | 8300 | NA | NA |
| | | UG/KG | ND | 360 | | 3400 | NA | NA |
| | | % | 108 | 50-200 | | 50-200 | NA | NA |
| | | % | 104 | 50-200 | | 50-200 | NA | NA |
| | | % | 104 | 50-200 | | 50-200 | NA | NA |
| | | % | 111 | 50-200 | | 50-200 | NA | NA |
| | | % | 105 | 50-200 | | 50-200 | NA | NA |
| | | % | 94 | 50-200 | | 50-200 | NA | NA |
| | | % | 69 | 21-120 | | 21-120 | NA | NA |
| | | % | 86 | 27-128 | | 27-128 | NA | NA |
| | | % | 99 | 41-139 | | 41-139 | NA | NA |
| | | % | 70 | 18-139 | | 18-139 | NA | NA |
| | | % | 62 | 25-121 | | 25-121 | NA | NA |
| | | % | 93 | 34-147 | | 34-147 | NA | NA |
| | | % | 99 | 50-200 | | 50-200 | NA | NA |
| | | % | 91 | 50-200 | | 50-200 | NA | NA |
| | | % | 88 | 50-200 | | 50-200 | NA | NA |
| | | % | 91 | 50-200 | | 50-200 | NA | NA |
| | | % | 89 | 50-200 | | 50-200 | NA | NA |
| | | % | 62 | 50-200 | | 50-200 | NA | NA |
| | | % | 41 | 21-120 | | 21-120 | NA | NA |
| | | % | 66 | 27-128 | | 27-128 | NA | NA |
| | | % | 85 | 41-139 | | 41-139 | NA | NA |
| | | % | 47 | 18-139 | | 18-139 | NA | NA |
| | | % | 36 | 25-121 | | 25-121 | NA | NA |
| | | % | 62 | 34-147 | | 34-147 | NA | NA |

060035

000026

| Client ID | Lab ID | W073102EJ01FB | AZ782105 | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value |
|----------------------|-------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Job No | Sample Date | A02-7821 | 07/30/2002 | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value |
| Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
| Aldrin | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| alpha-BHC | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| beta-BHC | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| gamma-BHC (Lindane) | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| delta-BHC | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| Chlordane | UG/L | ND | 0.48 | NA | NA | 0.48 | NA | 0.48 | NA |
| 4,4'-DDE | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| 4,4'-DDE | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| 4,4'-DDT | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| Dieldrin | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| Endosulfan I | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| Endosulfan II | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| Endosulfan Sulfate | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| Endrin | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| Endrin aldehyde | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| Heptachlor | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| Heptachlor epoxide | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| Methoxychlor | UG/L | ND | 0.048 | NA | NA | 0.048 | NA | 0.048 | NA |
| Toxaphene | UG/L | ND | 0.96 | NA | NA | 0.96 | NA | 0.96 | NA |
| -SURROGATE(S) | | | | | | | | | |
| Tetrachloro-m-xylene | % | 82 | 36-132 | NA | NA | 36-132 | NA | 36-132 | NA |
| Decachlorobiphenyl | % | 56 | 28-132 | NA | NA | 28-132 | NA | 28-132 | NA |

| Client ID Job No Sample date | Lab ID | Units | Sample Value | Reporting Limit | S070902EJ17 8-12 A02-7056 07/09/2002 | S072502EJ25 9-11 A02-7638 07/23/2002 | S072302EJ250 9-11 A02-7638 07/23/2002 | S072402EJ21 8-10 A02-7638 07/24/2002 | Reporting Limit |
|------------------------------------|--------|-------|--------------|-----------------|--|--|---|--|-----------------|
| Analyste | | | | | | | | | |
| alpha-BHC | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| beta-BHC | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| gamma-BHC (Lindane) | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| delta-BHC | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| Chlordane | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| 4,4'-DDD | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| 4,4'-DDE | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| 4,4'-DDT | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| Dieldrin | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| Endosulfan I | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| Endosulfan II | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| Endosulfan Sulfate | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| Endrin | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| Endrin aldehyde | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| Heptachlor | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| Heptachlor epoxide | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| Methoxychlor | | UG/KG | ND | 1.9 | ND | ND | ND | ND | 1.8 |
| Toxaphene | | UG/KG | ND | 38 | ND | ND | ND | ND | 36 |
| -SURROGATE(S) | | | | | | | | | |
| Tetrachloro-m-xylene | % | | 2.0 * | 32-130 | 91 | 88 | 82 | 82 | 32-130 |
| Decachlorobiphenyl | % | | 0 * | 36-153 | 246 * | 178 * | 82 | 82 | 36-153 |

000037

Date: 06/26/2002
Time: 12:05:11

Bergmann Assoc. - Gowanda Day Habilitation Center
548463 DELIVERABLES
BERG - S - 548463 8081 - TCL PESTICIDES

Rept: A80326

| Client ID | Lab ID | Sample Date | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---|----------|-------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| 95071902EJ GARDEN-N A02-7365 07/19/2002 | A2736507 | | | | | | | | | |
| Aldrin | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| alpha-BHC | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| beta-BHC | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| gamma-BHC (Lindane) | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| delta-BHC | UG/KG | ND | 180 | NA | NA | NA | NA | NA | NA | NA |
| Chlordane | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| 4,4'-DDD | UG/KG | 28 | 18 | NA | NA | NA | NA | NA | NA | NA |
| 4,4'-DBE | UG/KG | 520 | 18 | NA | NA | NA | NA | NA | NA | NA |
| 4,4'-DDT | UG/KG | 37 | 18 | NA | NA | NA | NA | NA | NA | NA |
| Dieldrin | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| Endosulfan I | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| Endosulfan II | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| Endosulfan Sulfate | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| Endrin | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| Endrin aldehyde | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| Heptachlor | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| Heptachlor epoxide | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| Methoxychlor | UG/KG | ND | 18 | NA | NA | NA | NA | NA | NA | NA |
| Toxaphene | UG/KG | ND | 350 | NA | NA | NA | NA | NA | NA | NA |
| SURROGATE(S) | | | | | | | | | | |
| Tetrachloro-m-xylene | % | 0 D | 32-130 | NA | NA | NA | NA | NA | NA | NA |
| Decachlorobiphenyl | % | 0 D | 36-153 | NA | NA | NA | NA | NA | NA | NA |

000038

NA = Not Applicable ND = Not Detected

STL Buffalo

| Client ID | Job No | Sample Date | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|----------------------|---------------|-------------|----------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| | W073102EJ01FB | A02-7821 | A2782105 | | | | | | | |
| | | 07/30/2002 | | | | | | | | |
| Aroclor 1016 | | | | UG/L | ND | 0.48 | NA | | NA | |
| Aroclor 1221 | | | | UG/L | ND | 0.48 | NA | | NA | |
| Aroclor 1232 | | | | UG/L | ND | 0.48 | NA | | NA | |
| Aroclor 1242 | | | | UG/L | ND | 0.48 | NA | | NA | |
| Aroclor 1248 | | | | UG/L | ND | 0.48 | NA | | NA | |
| Aroclor 1254 | | | | UG/L | ND | 0.48 | NA | | NA | |
| Aroclor 1260 | | | | UG/L | ND | 0.48 | NA | | NA | |
| SURROGATE(S) | | | | | | | | | | |
| Tetrachloro-m-xylene | | | | % | 74 | 36-132 | NA | | NA | |
| Decachlorobiphenyl | | | | % | 66 | 28-132 | NA | | NA | |

000039

| Client ID Job No Sample Date | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---|------------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| 9070902EJ17 8-12 A02-7056 07/09/2002 | A2705602RE | | ND | 20 | ND | 18 | ND | 20 | ND | 20 |
| Aroclor 1016 | | UG/KG | ND | 20 | ND | 18 | ND | 20 | ND | 20 |
| Aroclor 1221 | | UG/KG | ND | 20 | ND | 18 | ND | 20 | ND | 20 |
| Aroclor 1232 | | UG/KG | ND | 20 | ND | 18 | ND | 20 | ND | 20 |
| Aroclor 1242 | | UG/KG | ND | 20 | ND | 18 | ND | 20 | ND | 20 |
| Aroclor 1248 | | UG/KG | ND | 20 | ND | 18 | ND | 20 | ND | 20 |
| Aroclor 1254 | | UG/KG | ND | 20 | ND | 18 | ND | 20 | ND | 20 |
| Aroclor 1260 | | UG/KG | ND | 20 | ND | 18 | ND | 20 | ND | 20 |
| SURROGATE(S) | | | | | | | | | | |
| Tetrachloro-m-xylene | | % | 82 | 32-148 | 47 | 32-148 | 48 | 32-148 | 84 | 32-148 |
| Decachlorobiphenyl | | % | 126 | 36-153 | 52 | 36-153 | 61 | 36-153 | 84 | 36-153 |
| 9072302EJ25 9-11 A02-7636 07/23/2002 | A2763603 | | ND | 18 | ND | 18 | ND | 18 | ND | 18 |
| 9072302EJ25D 9-11 A02-7638 07/23/2002 | A2763604 | | ND | 20 | ND | 20 | ND | 20 | ND | 20 |
| 9072402EJ21 8-10 A02-7638 07/24/2002 | A2763805RE | | ND | 19 | ND | 19 | ND | 19 | ND | 19 |

| Client ID Job No Sample Date | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---|----------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| SS071902EJ GARDEN-N A02-7365 07/19/2002 | A2736507 | | ND | 18 | NA | 18 | NA | 18 | NA | 18 |
| Aroclor 1016 | | UG/KG | ND | 18 | NA | 18 | NA | 18 | NA | 18 |
| Aroclor 1221 | | UG/KG | ND | 18 | NA | 18 | NA | 18 | NA | 18 |
| Aroclor 1232 | | UG/KG | ND | 18 | NA | 18 | NA | 18 | NA | 18 |
| Aroclor 1242 | | UG/KG | ND | 18 | NA | 18 | NA | 18 | NA | 18 |
| Aroclor 1248 | | UG/KG | ND | 18 | NA | 18 | NA | 18 | NA | 18 |
| Aroclor 1254 | | UG/KG | 40 | 18 | NA | 18 | NA | 18 | NA | 18 |
| Aroclor 1260 | | UG/KG | ND | 18 | NA | 18 | NA | 18 | NA | 18 |
| SURROGATE(S) | | | | | | | | | | |
| Tetrachloro-m-xylene | | % | 83 | 32-148 | NA | 32-148 | NA | 32-148 | NA | 32-148 |
| Decachlorobiphenyl | | % | 84 | 36-153 | NA | 36-153 | NA | 36-153 | NA | 36-153 |

000040

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|----------------------------|------------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | A02-7821 | | ND | 0.47 | NA | | NA | |
| Sample Date | 07/30/2002 | | ND | 0.47 | NA | | NA | |
| Analyte | | UG/L | ND | 0.47 | NA | | NA | |
| 2,4-D | | UG/L | ND | 0.47 | NA | | NA | |
| 2,4,5-TP (silvex) | | UG/L | ND | 0.47 | NA | | NA | |
| 2,4,5-T | | UG/L | ND | 0.47 | NA | | NA | |
| SURROGATE(S) | | % | 101 | 17-133 | NA | | NA | |
| Dichlorophenyl Acetic Acid | | | | | | | | |

NA = Not Applicable ND = Not Detected

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|--|----------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| S070902EJ17 B-12 A02-7056 07/09/2002 | AZ705602 | | | | | | | |
| 2,4-D | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| 2,4,5-TP (Silvex) | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| 2,4,5-T | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| SURROGATE(S) | | % | 76 | 17-133 | 96 | 17-133 | 85 | 17-133 |
| Dichlorophenyl Acetic Acid | | | | | | | | |

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|--|----------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| S072302EJ25 9-11 A02-7638 07/23/2002 | AZ763803 | | | | | | | |
| 2,4-D | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| 2,4,5-TP (Silvex) | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| 2,4,5-T | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| SURROGATE(S) | | % | 94 | 17-133 | 96 | 17-133 | 85 | 17-133 |
| Dichlorophenyl Acetic Acid | | | | | | | | |

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---|----------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| S072302EJ25D 9-11 A02-7638 07/23/2002 | AZ763804 | | | | | | | |
| 2,4-D | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| 2,4,5-TP (Silvex) | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| 2,4,5-T | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| SURROGATE(S) | | % | 94 | 17-133 | 96 | 17-133 | 85 | 17-133 |
| Dichlorophenyl Acetic Acid | | | | | | | | |

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|--|----------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| S072402EJ21 B-10 A02-7638 07/24/2002 | AZ763805 | | | | | | | |
| 2,4-D | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| 2,4,5-TP (Silvex) | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| 2,4,5-T | | UG/KG | ND | 20 | ND | 19 | 19 | 18 |
| SURROGATE(S) | | % | 51 | 17-133 | 96 | 17-133 | 85 | 17-133 |
| Dichlorophenyl Acetic Acid | | | | | | | | |

000042

| Client ID | | Lab ID | | M075102EJ01FB | | A2782105 | | | | | | | | | |
|-----------|-------------|-------------------|-------|---------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | Sample Date | Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
| | | Aluminum - Total | MG/L | ND | 0.20 | NA | | NA | | NA | | NA | | NA | |
| | | Antimony - Total | MG/L | ND | 0.020 | NA | | NA | | NA | | NA | | NA | |
| | | Arsenic - Total | MG/L | ND | 0.0070 | NA | | NA | | NA | | NA | | NA | |
| | | Barium - Total | MG/L | 0.0012 | 0.0010 | NA | | NA | | NA | | NA | | NA | |
| | | Beryllium - Total | MG/L | ND | 0.0050 | NA | | NA | | NA | | NA | | NA | |
| | | Cadmium - Total | MG/L | ND | 0.0010 | NA | | NA | | NA | | NA | | NA | |
| | | Calcium - Total | MG/L | ND | 0.50 | NA | | NA | | NA | | NA | | NA | |
| | | Chromium - Total | MG/L | ND | 0.0020 | NA | | NA | | NA | | NA | | NA | |
| | | Cobalt - Total | MG/L | ND | 0.0050 | NA | | NA | | NA | | NA | | NA | |
| | | Copper - Total | MG/L | ND | 0.0050 | NA | | NA | | NA | | NA | | NA | |
| | | Iron - Total | MG/L | 0.20 | 0.050 | NA | | NA | | NA | | NA | | NA | |
| | | Lead - Total | MG/L | ND | 0.010 | NA | | NA | | NA | | NA | | NA | |
| | | Magnesium - Total | MG/L | ND | 0.20 | NA | | NA | | NA | | NA | | NA | |
| | | Manganese - Total | MG/L | ND | 0.0030 | NA | | NA | | NA | | NA | | NA | |
| | | Mercury - Total | MG/L | ND | 0.00020 | NA | | NA | | NA | | NA | | NA | |
| | | Nickel - Total | MG/L | ND | 0.010 | NA | | NA | | NA | | NA | | NA | |
| | | Potassium - Total | MG/L | ND | 0.50 | NA | | NA | | NA | | NA | | NA | |
| | | Selenium - Total | MG/L | ND | 0.010 | NA | | NA | | NA | | NA | | NA | |
| | | Silver - Total | MG/L | ND | 0.0050 | NA | | NA | | NA | | NA | | NA | |
| | | Sodium - Total | MG/L | ND | 1.0 | NA | | NA | | NA | | NA | | NA | |
| | | Thallium - Total | MG/L | ND | 0.020 | NA | | NA | | NA | | NA | | NA | |
| | | Vanadium - Total | MG/L | ND | 0.0050 | NA | | NA | | NA | | NA | | NA | |
| | | Zinc - Total | MG/L | ND | 0.020 | NA | | NA | | NA | | NA | | NA | |

000043

Date: 08/26/2002
Time: 12:05:27

Bergmann Assoc. - Gowanda Day Rehabilitation Center
SWS-63 DELIVERABLES
BERGMANN - S - SWS-63 TAL METALS

Rept: AN0326

| Client ID | Lab ID | Sample Date | Sample Value | Reporting Limit | Units | Analyte | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|------------------|----------|-------------|--------------|-----------------|-------|-------------------|--------------|-----------------|--------------|-----------------|
| S070902EJ17 8-12 | A2705602 | 07/09/2002 | 6760 | 22.9 | MG/KG | Aluminum - Total | 7140 | 23.7 | 7690 | 21.7 |
| | | | ND | 11.4 | MG/KG | Antimony - Total | ND | 11.8 | ND | 10.8 |
| | | | 7.6 | 1.1 | MG/KG | Arsenic - Total | 25.0 | 1.2 | B.3 | 1.1 |
| | | | 76.0 | 1.1 | MG/KG | Barium - Total | 171 | 1.2 | 59.2 | 1.1 |
| | | | ND | 0.57 | MG/KG | Beryllium - Total | ND | 0.59 | ND | 0.54 |
| | | | ND | 0.57 | MG/KG | Cadmium - Total | ND | 0.59 | ND | 0.54 |
| | | | 1200 | 114 | MG/KG | Calcium - Total | 6290 | 118 | 6240 | 108 |
| | | | 10.1 | 2.3 | MG/KG | Chromium - Total | 10.7 | 2.4 | 11.0 | 2.2 |
| | | | 7.3 | 2.3 | MG/KG | Cobalt - Total | 10.1 | 2.4 | 6.8 | 2.2 |
| | | | 24.6 | 2.3 | MG/KG | Copper - Total | 19.2 | 2.4 | 21.7 | 2.2 |
| | | | 18600 | 17.2 | MG/KG | Iron - Total | 41000 | 17.8 | 32000 | 16.2 |
| | | | 12.4 | 5.7 | MG/KG | Lead - Total | 9.9 | 5.9 | 8.1 | 5.4 |
| | | | 2440 | 22.9 | MG/KG | Magnesium - Total | 4850 | 23.7 | 4560 | 21.7 |
| | | | 758 | 1.1 | MG/KG | Manganese - Total | B26 | 1.2 | 194 | 1.1 |
| | | | ND | 0.12 | MG/KG | Mercury - Total | ND | 0.025 | ND | 0.022 |
| | | | 18.0 | 2.3 | MG/KG | Nickel - Total | 19.1 | 2.4 | 17.0 | 2.2 |
| | | | 720 | 229 | MG/KG | Potassium - Total | 1030 | 237 | 1110 | 217 |
| | | | ND | 3.4 | MG/KG | Selenium - Total | ND | 3.6 | ND | 3.2 |
| | | | ND | 1.1 | MG/KG | Silver - Total | ND | 1.2 | ND | 1.1 |
| | | | ND | 114 | MG/KG | Sodium - Total | ND | 118 | ND | 108 |
| | | | ND | 6.9 | MG/KG | Thallium - Total | ND | 7.1 | ND | 6.5 |
| | | | 10.8 | 1.1 | MG/KG | Vanadium - Total | 10.9 | 1.2 | 12.2 | 1.1 |
| | | | 76.6 | 1.1 | MG/KG | Zinc - Total | 91.8 | 1.2 | 82.9 | 1.1 |

000044

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 08/26/2002
Time: 12:05:27

Bergmann Assoc. - Gowanda Day Habilitation Center
S48463 DELIVERABLES
BERGMANN - S - S48463 TAL METALS

Rept: A0326

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|-------------------|------------------------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | SS071902EJ GARDEW-N | | | | | | | |
| Sample Date | A02-7365 07/19/2002 | | | | | | | |
| Analyte | | | | | | | | |
| Aluminum - Total | | MG/KG | 8020 | 21.7 | NA | NA | NA | NA |
| Antimony - Total | | MG/KG | ND | 10.8 | NA | NA | NA | NA |
| Arsenic - Total | | MG/KG | 7.8 | 1.1 | NA | NA | NA | NA |
| Barium - Total | | MG/KG | 105 | 1.1 | NA | NA | NA | NA |
| Beryllium - Total | | MG/KG | ND | 0.54 | NA | NA | NA | NA |
| Cadmium - Total | | MG/KG | ND | 0.54 | NA | NA | NA | NA |
| Calcium - Total | | MG/KG | 5210 | 108 | NA | NA | NA | NA |
| Chromium - Total | | MG/KG | 39.6 | 2.2 | NA | NA | NA | NA |
| Cobalt - Total | | MG/KG | 7.8 | 2.2 | NA | NA | NA | NA |
| Copper - Total | | MG/KG | 38.4 | 2.2 | NA | NA | NA | NA |
| Iron - Total | | MG/KG | 22100 | 16.3 | NA | NA | NA | NA |
| Lead - Total | | MG/KG | 22.0 | 5.4 | NA | NA | NA | NA |
| Magnesium - Total | | MG/KG | 3230 | 21.7 | NA | NA | NA | NA |
| Manganese - Total | | MG/KG | 596 | 1.1 | NA | NA | NA | NA |
| Mercury - Total | | MG/KG | ND | 0.10 | NA | NA | NA | NA |
| Nickel - Total | | MG/KG | 25.8 | 2.2 | NA | NA | NA | NA |
| Potassium - Total | | MG/KG | 952 | 217 | NA | NA | NA | NA |
| Selenium - Total | | MG/KG | ND | 3.2 | NA | NA | NA | NA |
| Silver - Total | | MG/KG | ND | 1.1 | NA | NA | NA | NA |
| Sodium - Total | | MG/KG | ND | 108 | NA | NA | NA | NA |
| Thallium - Total | | MG/KG | ND | 6.5 | NA | NA | NA | NA |
| Vanadium - Total | | MG/KG | 13.1 | 1.1 | NA | NA | NA | NA |
| Zinc - Total | | MG/KG | 62.2 | 1.1 | NA | NA | NA | NA |

000045

| Client ID | Lab ID | Job No | Sample Date | Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|-----------------|--------|-------------------|------------------------|---------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| | | S070902EJ17 8-12 | A02-7056 07/09/2002 | | UG/G | ND-R | 0.50 | ND-R | 0.50 | ND-R | 0.50 |
| | | A2705602 | | | | | | | | | |
| | | S072302EJ25 9-11 | A02-763B 07/23/2002 | | | ND-R | 0.50 | ND-R | 0.50 | ND-R | 0.50 |
| | | A2763803 | | | | | | | | | |
| | | S072302EJ25D 9-11 | A02-763B 07/23/2002 | | | ND-R | 0.50 | ND-R | 0.50 | ND-R | 0.50 |
| | | A2763804 | | | | | | | | | |
| | | S072402EJ21 8-1D | A02-763B 07/24/2002 | | | ND-R | 0.50 | ND-R | 0.50 | ND-R | 0.50 |
| | | A2763805 | | | | | | | | | |
| Cyanide - Total | | | | | | | | | | | |

| Client ID | Lab ID | Job No | Sample Date | Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|-----------------|--------|---------------------|------------------------|---------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| | | S5071902EJ GARDEN-M | A02-7365 07/19/2002 | | UG/G | ND-R | 0.50 | NA | 0.50 | NA | 0.50 |
| | | A2736507 | | | | | | | | | |
| | | U073102EJ01FB | A02-7821 07/30/2002 | | MG/L | ND J | 0.010 | NA | 0.010 | NA | 0.010 |
| | | A2782105 | | | | | | | | | |
| Cyanide - Total | | | | | | | | | | | |

000046



STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

tel: 716 691 2600
fax: 716 691 7991
www.stlinc.com

ANALYTICAL REPORT
Revised

Job#: A02-7059, A02-7362, A02-7816

STL Project#: NY2A8896
SDG#: 7059
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center
Task: ASPOO LEVEL IV DELIVERABLES

ASP SOIL SAMPLES

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

STL Buffalo

Brian J. Fischer
Project Manager

Susan L. Mazur
Laboratory Director

10/31/2002

This report contains 1607 pages which are individually numbered.

SEVERN

TRENT

SERVICES

September 25, 2002

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stl-inc.com

RE: **Revision** for SDG 7059

Dear Mr. Jones:

Please find enclosed the revised analytical report concerning the samples recently submitted by your firm. The revised pages have been numbered for replacement and insertion into the original report. The pertinent information regarding these analyses is listed below:

Project: Gowanda Day Habilitation Center
SDG#: 7059
Task: ASP00 DELIVERABLES

If you have any questions concerning these data, please contact the Program Manager at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide Bergmann Associates with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo



Brian J. Fischer
Program Manager

BJF/rtv

I.D. #A02-7059.rev
#NY2A8896

**SEVERN
TRENT
SERVICES**

October 30, 2002

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stlinc.com

RE: **REVISION** for SDG 7059 *SOIL ASP*

Dear Mr. Jones:

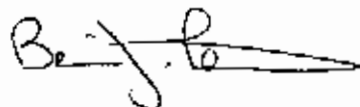
Please find enclosed the **revised analytical report** concerning **Herbicides data** for the samples submitted by your firm. The revised pages have been numbered for replacement and insertion into the original report. Herbicides raw data have been numbered for insertion at the end of the original report (vs. following PCB raw data). The pertinent information regarding these analyses is listed below:

Project : Gowanda Day Habilitation Center
SDG : 7059
Task : ASP00 Level IV Deliverables

If you have any questions concerning these data, please contact the Program Manager at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide Bergmann Associates with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo



Brian J. Fischer
Program Manager

BJF/klk
Enclosure

I.D. #A02-7059.rev3
#NY2A8896

January 14, 2003

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

RE: REVISION for SDG 7059

Dear Mr. Jones:

Please find enclosed the revised pages concerning Pesticide, PCB, and Herbicide data for the samples submitted by your firm. The revised pages have been numbered for replacement and insertion into the original report. The pertinent information regarding these analyses is listed below:

Project : Gowanda Day Habilitation Center
SDG : 7059
Task : ASP00 Level IV Deliverables

If you have any questions concerning these data, please contact the Program Manager at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide Bergmann Associates with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo



Brian J. Fischer
Program Manager

BJF/stc
Enclosure
cc: J. Harry - Data Validation Services

I.D. #A02-7059.rev4
#NY2A8896

SAMPLE DATA SUMMARY PACKAGE

000002

SAMPLE SUMMARY

| <u>LAB SAMPLE ID</u> | <u>CLIENT SAMPLE ID</u> | <u>SAMPLED</u> | | <u>RECEIVED</u> | |
|----------------------|-------------------------|----------------|-------------|-----------------|-------------|
| | | <u>DATE</u> | <u>TIME</u> | <u>DATE</u> | <u>TIME</u> |
| A2705901 | S071002EJ18 5-6 | 07/10/2002 | 08:40 | 07/11/2002 | 14:50 |
| A2705902 | S071102EJ04 10-12 | 07/11/2002 | 12:30 | 07/11/2002 | 14:50 |
| A2736201 | S071902EJ15 12-14 | 07/19/2002 | 08:30 | 07/19/2002 | 15:21 |
| A2781601 | S073002EJ06 18-20 | 07/30/2002 | 12:40 | 08/01/2002 | 09:20 |
| A2781601MS | S073002EJ06 18-20 | 07/30/2002 | 12:40 | 08/01/2002 | 09:20 |
| A2781601SD | S073002EJ06 18-20 | 07/30/2002 | 12:40 | 08/01/2002 | 09:20 |
| A2782104 | S073102EJ01 2-4 | 07/30/2002 | 14:10 | 08/01/2002 | 09:20 |
| A2782104MD | S073102EJ01 2-4 | 07/30/2002 | 14:10 | 08/01/2002 | 09:20 |
| A2782104MS | S073102EJ01 2-4 | 07/30/2002 | 14:10 | 08/01/2002 | 09:20 |
| A2782104SD | S073102EJ01 2-4 | 07/30/2002 | 14:10 | 08/01/2002 | 09:20 |
| A2781602 | S073102EJ01 8-10 | 07/31/2002 | 14:20 | 08/01/2002 | 09:20 |
| A2781602MS | S073102EJ01 8-10 | 07/31/2002 | 14:20 | 08/01/2002 | 09:20 |
| A2781602SD | S073102EJ01 8-10 | 07/31/2002 | 14:20 | 08/01/2002 | 09:20 |
| A2705904 | TRIP BLANK | 07/11/2002 | | 07/11/2002 | 14:50 |
| A2705903 | W071102EJ04 FB | 07/11/2002 | 13:00 | 07/11/2002 | 14:50 |

METHODS SUMMARY

000003

Job#: A02-7059,A02-7362,A02-7816

STL Project#: NY2A8896

SDG#: 7059

Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

| PARAMETER | ANALYTICAL METHOD | |
|--|-------------------|----------|
| BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS | ASP00 | 8260 |
| BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS | ASP00 | 8260/5ML |
| BERG - S - ASP 2000- METHOD 8270 SEMIVOLATILES | ASP00 | 8270 |
| BERG - S - ASP00 - 8151 - HERBICIDES (3 COMPS) | ASP00 | 8151 |
| BERG - S - ASP00 8081 PESTICIDES | ASP00 | 8081 |
| BERG - S - ASP00 8082 - POLYCHLORINATED BIPHENYLS | ASP00 | 8082 |
| Aluminum - Total | ASP00 | 6010 |
| Antimony - Total | ASP00 | 6010 |
| Arsenic - Total | ASP00 | 6010 |
| Barium - Total | ASP00 | 6010 |
| Beryllium - Total | ASP00 | 6010 |
| Cadmium - Total | ASP00 | 6010 |
| Calcium - Total | ASP00 | 6010 |
| Chromium - Total | ASP00 | 6010 |
| Cobalt - Total | ASP00 | 6010 |
| Copper - Total | ASP00 | 6010 |
| Iron - Total | ASP00 | 6010 |
| Lead - Total | ASP00 | 6010 |
| Magnesium - Total | ASP00 | 6010 |
| Manganese - Total | ASP00 | 6010 |
| Mercury - Total | ASP00 | 7471 |
| Nickel - Total | ASP00 | 6010 |
| Potassium - Total | ASP00 | 6010 |
| Selenium - Total | ASP00 | 6010 |
| Silver - Total | ASP00 | 6010 |
| Sodium - Total | ASP00 | 6010 |
| Thallium - Total | ASP00 | 6010 |
| Vanadium - Total | ASP00 | 6010 |
| Zinc - Total | ASP00 | 6010 |
| Cyanide - Total | ASP00 | 9012 |
| Leachable pH | ASP00 | 9045 |

References:

ASP00 "Analytical Services Protocol". New York State Department of Conservation, June 2000.

NON-CONFORMANCE SUMMARY

000001

Job#: A02-7059,A02-7362,A02-7816

SIL Project#: NY2A8896

SDG#: 7059

Site Name: Bergmann Assoc., - Gowanda Day Habilitation Center

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-7059

Sample Cooler(s) were received at the following temperature(s); 6°C.

A02-7362

Sample Cooler(s) were received at the following temperature(s); 6 °C

All samples were received in good condition.

A02-7816

Sample Cooler(s) were received at the following temperature(s); 6 °C

All samples were received in good condition.

GC/MS Volatile Data

The client required compound list included analytes that are not found on the standard method specified ASP Protocol compound list. At this time the laboratory does not have a standard available that has those additional compounds, that does not also contain analytes that would interfere with the ASP Protocol required Internal Standards (specifically Bromochloromethane). Therefore, some of the specified analytes were analyzed as modified additional list compounds and were then manually entered into the laboratory generated forms. (There were no positive detects for any of these additional compounds in any of the samples)

The analyte Methylene Chloride was detected in the Volatile Holding Blank (A2705905), VBLK45 and VBLK46 at a level below the project established reporting limit. No corrective action is necessary for any values in Blanks that are below the requested reporting limits.

000005

The analyte Acetone was detected in VELK46 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte 1,2,4-Trichlorobenzene was detected in VELK45 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

All water samples were preserved to a PH less than 2.

Initial calibration standard curve A2I0000735-1 exhibited the %RSD of six compounds as greater than 15%. However, the mean RSD of all compounds is 8.43%. As a result no corrective action was required.

Initial calibration standard curve A2I0000751-1 exhibited the %RSD of Bromoform as above quality control limits. However, ASP00 protocol allows for the %RSD of up to two analytes to exceed quality control limits. As a result no corrective action was required.

Initial calibration standard curve A2I0000711-1 exhibited the %RSD of four compounds as above quality control limits. However, the mean RSD of all compounds is 6.80%. As a result no corrective action was required.

Continuing calibration standards A2C0003427-1 and A2C0003498-1 exhibited the %D of 1,2,4-Trichlorobenzene as above quality control limits. However, ASP00 protocol allows for the %D of up to two analytes per standard to exceed quality control limits. As a result no corrective action was required.

The analyte Methylene Chloride was detected in the Method Blank VELK33 at a level below the project established reporting limit. The analytes Methylene Chloride and Acetone were detected in the Method Blank VELK31 at levels below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analytes Methylene Chloride and Acetone were detected in the Volatile Holding Blank (A2736202) at a level below the project established reporting limit. No corrective action is necessary for any values in Volatile Holding Blanks that are below the requested reporting limits.

The analytes Acetone, Toluene, and Methylene Chloride were detected in the Method Blanks VELK72, VELK73, VELK74 and the Volatile Holding Blank (A2781503) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The recoveries of Benzene, Chlorobenzene, Toluene, and Trichloroethene in the MS and MSD of sample S073002EJ06 18-20 were below quality control limits. Also the %RPD of Trichloroethene was above quality control limits. The associated MSB exhibited compliant recoveries for all spiking compounds.

Sample S073102EJ01 8-10 MS exhibited the spike recovery of Chlorobenzene as below quality control limits. S073102EJ01 8-10 SD exhibited the spike recovery of Trichloroethene as below quality control limits. Also the %RPD of Trichloroethene was above quality control limits. The associated MSB exhibited compliant recoveries for all spiking compounds.

STL Buffalo internal validation reports have been printed and are included in this report as Appendix A.

GC/MS Semivolatile Data

The spike recovery for Pentachlorophenol was above the method defined quality control limits in the Matrix Spike Blank A2B0740901. Since the results were biased high and the analyte was not detected in the samples, no corrective action was required.

The spike recovery for 2,4-dinitrotoluene was below the method defined quality control limits in the Matrix Spike S073102EJ01 8-10 and in the Matrix Spike Duplicate S073102EJ01 8-10. Since the Matrix Spike Blank was compliant, no corrective action was required.

The surrogate recoveries were diluted out of sample S073102EJ01 8-10.

Samples S073102EJ01 8-10, S073102EJ01 8-10 MS and S073102EJ01 8-10 SD were not homogenous and required different dilutions due to varying degrees of extract viscosity.

Samples A2B0740901 and A2B0740902 had 80ng of internal standard added instead of the required 40ng. The calculations on the reports were adjusted. The data was not affected.

STL Buffalo internal validation reports have been printed and are included in this report as Appendix A.

GC Extractable Data

The continuing calibration verification for Aroclor 1260 analyzed after the field samples for Method 8082 (PCB) analysis was slightly outside the quality control limit of less than or equal to 15 percent difference. All other Aroclor continuing calibration verification analyses were compliant. There were no hits for Aroclor 1260 in the associated samples; no corrective action was taken.

Samples S073102EJ01 8-10 and the associated matrix spike and matrix spike duplicate analyzed for Method 8081 (Pesticides) were florisil treated to minimize matrix interferences.

The surrogates in the associated Continuing Calibration Verifications and samples S073102EJ01 8-10 and the associated matrix spike and matrix spike duplicate were calculated using the average calibration factor.

A few compounds for the Continuing Calibration Verifications for Method 8081 slightly exceeded the quality control limit of less than or equal to 15 percent difference. The average percent difference across all analytes was compliant as well as surrogate and spike recovery data. No corrective action was indicated.

STL Buffalo internal validation reports have been printed and are included in this report as Appendix A.

Metals Data

The following elements are not contained in the CLP spiking solution for samples S073102EJ01 8-10 Matrix Spike and Matrix Spike Duplicate: Aluminum, Calcium, Magnesium, Potassium, and Sodium.

The recovery of Antimony fell below the QC limits in sample S073102EJ01 8-10 Matrix Spike and Matrix Spike Duplicate. The recovery of Manganese and Zinc fell above the QC limits in sample S073102EJ01 8-10 Matrix Spike. The recovery of Barium fell above the QC limits in sample S073102EJ01 Matrix Spike Duplicate. The LFB was acceptable for all elements.

The recovery of Iron fell below the QC limits in sample S073102EJ01 8-10 Matrix Spike and fell above the QC limits in S073102EJ01 8-10 Matrix Spike Duplicate. The sample results were more than four times greater than the spike added, therefore, no qualifiers are needed. The LFB was acceptable.

The analytes Aluminum and Zinc were detected in the Method Blank at a level above the project established reporting limit. However, all samples had levels of Aluminum and Zinc greater than ten times that of the Method Blank value, therefore, no corrective action was necessary.

STL Buffalo internal validation reports have been printed and are included in this report as Appendix A.

Wet Chemistry Data

STL Buffalo internal validation reports have been printed and are included in this report as Appendix A.

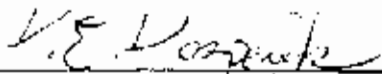
Revision Comments

Due to laboratory oversight, samples W073102EJ01FB and S073102EJ01 2-4 were analyzed past the EPA-recommended holding time for Cyanide. The sample results should be considered estimated.

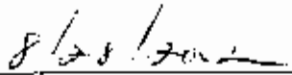
000013

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."



Susan L. Mazur
Laboratory Director



Date

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
 ANALYSIS DATA SHEET

Client No.

000009
 S0710026J18 5-6

Lab Name: STL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2705901

Sample wt/vol: 5.19 (g/mL) G Lab File ID: F4589.RR

Level: (low/med) LOW Date Samp/Recv: 07/10/2002 07/11/2002

% Moisture: not dec. 40.8 Heated Purge: Y Date Analyzed: 07/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|------------|-----------------------------|-----------------|-------|----|
| 67-64-1 | Acetone | | 21 | BU |
| 71-43-2 | Benzene | | 16 | U |
| 75-27-4 | Bromodichloromethane | | 16 | U |
| 75-25-2 | Bromoform | | 16 | U |
| 74-83-9 | Bromomethane | | 16 | U |
| 78-93-3 | 2-Butanone | | 16 | U |
| 75-15-0 | Carbon Disulfide | | 16 | U |
| 56-23-5 | Carbon Tetrachloride | | 16 | U |
| 74-87-3 | Chloromethane | | 16 | U |
| 108-90-7 | Chlorobenzene | | 16 | U |
| 75-00-3 | Chloroethane | | 16 | U |
| 110-82-7 | Cyclohexane | | 16 | U |
| 67-66-3 | Chloroform | | 16 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 160 | U |
| 124-48-1 | Dibromochloromethane | | 16 | U |
| 75-71-8 | Dichlorodifluoromethane | | 16 | U |
| 106-93-4 | 1,2-Dibromoethane | | 16 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 16 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 16 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 16 | U |
| 75-34-3 | 1,1-Dichloroethane | | 16 | U |
| 107-06-2 | 1,2-Dichloroethane | | 16 | U |
| 75-35-4 | 1,1-Dichloroethene | | 16 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 16 | U |
| 156-60-5 | trans-1,2-Dichloroethene | | 16 | U |
| 78-87-5 | 1,2-Dichloropropane | | 16 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 16 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 16 | U |
| 100-41-4 | Ethylbenzene | | 16 | U |
| 591-78-6 | 2-Hexanone | | 16 | U |
| 98-82-8 | Isopropylbenzene | | 16 | U |
| 79-20-9 | Methyl acetate | | 16 | U |
| 75-09-2 | Methylene chloride | | 28 | BU |
| 1634-04-4 | Methyl tert butyl ether | | 16 | U |

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
 ANALYSIS DATA SHEET

000010

Client No.

S071002EJ18 5-6

Lab Name: STL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2705901

Sample wt/vol: 5.19 (g/mL) G Lab File ID: F4589.RR

Level: (low/med) LOW Date Samp/Recv: 07/10/2002 07/11/2002

% Moisture: not dec. 40.8 Heated Purge: Y Date Analyzed: 07/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

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

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|-----------|---------------------------------------|-----------------|-------|---|
| 108-10-1 | 4-Methyl-2-pentanone | 16 | | U |
| 108-87-2 | Methylcyclohexane | 16 | | U |
| 100-42-5 | Styrene | 16 | | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 16 | | U |
| 127-18-4 | Tetrachloroethene | 16 | | U |
| 108-88-3 | Toluene | 16 | | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 16 | | U |
| 71-55-6 | 1,1,1-Trichloroethane | 16 | | U |
| 79-00-5 | 1,1,2-Trichloroethane | 16 | | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 16 | | U |
| 79-01-6 | Trichloroethene | 16 | | U |
| 75-69-4 | Trichlorofluoromethane | 16 | | U |
| 75-01-4 | Vinyl chloride | 16 | | U |
| 1330-20-7 | Total Xylenes | 16 | | U |
| 103-65-1 | n-Propylbenzene | 16 | | U |
| 99-87-6 | p-Cymene | 16 | | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 16 | | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 16 | | U |
| 104-51-8 | n-Butylbenzene | 16 | | U |
| 135-98-8 | sec-Butylbenzene | 16 | | U |

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 TENTATIVELY IDENTIFIED COMPOUNDS

000011

Client No

S071002EJ18 5-6

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2705901

Sample wt/vol: 5.19 (g/mL) G Lab File ID: F4589.RR

Level: (low/med) LOW Date Samp/Recv: 07/10/2002 07/11/2002

% Moisture: not dec. 40.8 Date Analyzed: 07/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

Number TICs found: 1 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|-------------|-------------------|------|---------------|----------------|
| 1. 110-54-3 | HEXANE | 3.21 | 14 | BJN |

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 ANALYSIS DATA SHEET

000012

Client No.

S071102EJ04 10-12

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2705902

Sample wt/vol: 5.01 (g/mL) G Lab File ID: F4590.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2002 07/11/2002

Moisture: not dec. 12.2 Heated Purge: Y Date Analyzed: 07/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

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

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/KG</u> | <u>Q</u> |
|------------|-----------------------------|-----------------|--------------|----------|
| 67-64-1 | Acetone | | 11 | 5 |
| 71-43-2 | Benzene | | 11 | U |
| 75-27-4 | Bromodichloromethane | | 11 | U |
| 75-25-2 | Bromoform | | 11 | U |
| 74-83-9 | Bromomethane | | 11 | U |
| 78-93-3 | 2-Butanone | | 11 | U |
| 75-15-0 | Carbon Disulfide | | 11 | U |
| 56-23-5 | Carbon Tetrachloride | | 11 | U |
| 74-87-3 | Chloromethane | | 11 | U |
| 108-90-7 | Chlorobenzene | | 11 | U |
| 75-00-3 | Chloroethane | | 11 | U |
| 110-82-7 | Cyclohexane | | 11 | U |
| 67-66-3 | Chloroform | | 11 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 110 | U |
| 124-48-1 | Dibromochloromethane | | 11 | U |
| 75-71-8 | Dichlorodifluoromethane | | 11 | U |
| 106-93-4 | 1,2-Dibromoethane | | 11 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 11 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 11 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | | 11 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 11 | U |
| 156-60-5 | trans-1,2-Dichloroethene | | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 11 | U |
| 100-41-4 | Ethylbenzene | | 11 | U |
| 591-78-6 | 2-Hexanone | | 11 | U |
| 98-82-8 | Isopropylbenzene | | 11 | U |
| 79-20-9 | Methyl acetate | | 11 | U |
| 75-09-2 | Methylene chloride | | 12 | U |
| 1634-04-4 | Methyl tert butyl ether | | 11 | U |

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 ANALYSIS DATA SHEET

000013

Client No.

S071102EJ04 10-12

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNV Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2705902

Sample wt/vol: 5.01 (g/mL) G Lab File ID: F4590.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2002 07/11/2002

% Moisture: not dec. 12.2 Heated Purge: Y Date Analyzed: 07/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | UG/KG | Q |
|-----------|---------------------------------------|-------|---|
| 108-10-1 | 4-Methyl-2-pentanone | 11 | U |
| 108-87-2 | Methylcyclohexane | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | U |
| 79-01-6 | Trichloroethene | 11 | U |
| 75-69-4 | Trichlorofluoromethane | 11 | U |
| 75-01-4 | Vinyl chloride | 11 | U |
| 1330-20-7 | Total Xylenes | 11 | U |
| 103-65-1 | n-Propylbenzene | 11 | U |
| 99-87-6 | p-Cymene | 11 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 11 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 11 | U |
| 104-51-8 | n-Butylbenzene | 11 | U |
| 135-98-8 | sec-Butylbenzene | 11 | U |

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TENTATIVELY IDENTIFIED COMPOUNDS

000014

Client No.

S071102EJ04 10-12

Lab Name: STL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2705902

Sample wt/vol: 5.01 (g/mL) G Lab File ID: F4590.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2002 07/11/2002

% Moisture: not dec. 12.2 Date Analyzed: 07/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

Number TICs found: 2 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|-------------|-------------------|-----------------|--------------|----------------|
| 1. | UNKNOWN | 1.43 | 6 | J |
| 2. 110-54-3 | HEXANE | 3.22 | 8 | BJN |

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 ANALYSIS DATA SHEET

000015

Client No

S071902EJ15 12-14

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2736201

Sample wt/vol: 5.08 (g/mL) G Lab File ID: Q5394.RR

Level: (low/med) LOW Date Samp/Recv: 07/19/2002 07/19/2002

% Moisture: not dec. 10.0 Heated Purge: Y Date Analyzed: 07/23/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

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

| | | | |
|------------|-----------------------------|-------|------|
| 67-64-1 | Acetone | 11 | U |
| 71-43-2 | Benzene | 11 | U |
| 75-27-4 | Bromodichloromethane | 11 | U |
| 75-25-2 | Bromoform | 11 | U |
| 74-83-9 | Bromomethane | 11 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 56-23-5 | Carbon Tetrachloride | 11 | U |
| 74-87-3 | Chloromethane | 11 | U |
| 108-90-7 | Chlorobenzene | 11 | U |
| 75-00-3 | Chloroethane | 11 | U |
| 110-82-7 | Cyclohexane | 11 | U |
| 67-66-3 | Chloroform | 11 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 110 | U |
| 124-48-1 | Dibromochloromethane | 11 | U |
| 75-71-8 | Dichlorodifluoromethane | 11 | U |
| 106-93-4 | 1,2-Dibromoethane | 11 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 11 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 11 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 7 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 11 | U |
| 100-41-4 | Ethylbenzene | 11 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 98-82-8 | Isopropylbenzene | 11 | U |
| 79-20-9 | Methyl acetate | 11 | U |
| 75-09-2 | Methylene chloride | 11 20 | 20 U |
| 1634-04-4 | Methyl tert butyl ether | 11 | U |

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 ANALYSIS DATA SHEET

000015

Client No.

S071902EJ15 12-14

Lab Name: STL Buffalo Contract: _____

Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2736201

Sample wt/vol: 5.08 (g/mL) G Lab File ID: Q5394.RR

Level: (low/med) LOW Date Samp/Recv: 07/19/2002 07/19/2002

Moisture: not dec. 10.0 Heated Purge: Y Date Analyzed: 07/23/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | UG/KG | Q |
|-----------|---------------------------------------|-------|---|
| 108-10-1 | 4-Methyl-2-pentanone | 11 | U |
| 108-87-2 | Methylcyclohexane | 11 | U |
| 100-42-5 | Styrene | 11 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 11 | U |
| 127-18-4 | Tetrachloroethene | 11 | U |
| 108-88-3 | Toluene | 11 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 11 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 11 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | U |
| 79-01-6 | Trichloroethene | 51 | U |
| 75-69-4 | Trichlorofluoromethane | 11 | U |
| 75-01-4 | Vinyl chloride | 11 | U |
| 1330-20-7 | Total Xylenes | 11 | U |
| 103-65-1 | n-Propylbenzene | 11 | U |
| 99-87-6 | p-Cymene | 11 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 11 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 11 | U |
| 104-51-8 | n-Butylbenzene | 11 | U |
| 135-98-8 | sec-Butylbenzene | 11 | U |

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 BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
 TENTATIVELY IDENTIFIED COMPOUNDS

000017

Client No.

S071902EJ15 12-14

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2736201

Sample wt/vol: 5.08 (g/mL) G Lab File ID: 05394.RR

Level: (low/med) LOW Date Samp/Recv: 07/19/2002 07/19/2002

% Moisture: not dec. 10.0 Date Analyzed: 07/23/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

Number TICs found: 1 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|-------------|-------------------|------|--------------|---------------|
| 1. 110-54-3 | HEXANE | 2.85 | 7 | DN |

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 ANALYSIS DATA SHEET

000013

Client No.

S073002EJ06 18-20

Lab Name: STL Buffalo Contract: _____

Lab Code: RECONY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2781601

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F4947.PR

Level: (low/med) LOW Date Samp/Recv: 07/30/2002 08/01/2002

Moisture: not dec. 9.3 Heated Purge: Y Date Analyzed: 08/02/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

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

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/KG</u> | Q |
|------------|-----------------------------|-----------------|--------------|-----|
| 67-64-1 | Acetone | | // 8 | B U |
| 71-43-2 | Benzene | | 11 | U J |
| 75-27-4 | Bromodichloromethane | | 11 | U |
| 75-25-2 | Bromoform | | 11 | U |
| 74-83-9 | Bromomethane | | 11 | U |
| 78-93-3 | 2-Butanone | | 11 | U |
| 75-15-0 | Carbon Disulfide | | 11 | U |
| 56-23-5 | Carbon Tetrachloride | | 11 | U |
| 74-87-3 | Chloromethane | | 11 | U |
| 108-90-7 | Chlorobenzene | | 11 | U J |
| 75-00-3 | Chloroethane | | 11 | U |
| 110-82-7 | Cyclohexane | | 11 | U |
| 67-66-3 | Chloroform | | 11 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 110 | U |
| 124-48-1 | Dibromochloromethane | | 11 | U |
| 75-71-8 | Dichlorodifluoromethane | | 11 | U |
| 106-93-4 | 1,2-Dibromoethane | | 11 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 11 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 11 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 11 | U |
| 75-34-3 | 1,1-Dichloroethane | | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | | 11 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 190 | U |
| 156-60-5 | trans-1,2-Dichloroethene | | 11 | U |
| 78-87-5 | 1,2-Dichloropropane | | 11 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 11 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 11 | U |
| 100-41-4 | Ethylbenzene | | 11 | U |
| 591-78-6 | 2-Hexanone | | 11 | U |
| 98-82-8 | Isopropylbenzene | | 11 | U |
| 79-20-9 | Methyl acetate | | 11 | U |
| 75-09-2 | Methylene chloride | | 11 | U |
| 1634-04-4 | Methyl tert butyl ether | | 11 | U |

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 ANALYSIS DATA SHEET

000019

Client No

5073002EJ06 18-20

Lab Name: STL Buffalo Contract: _____

Lab Code: RECLY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2781601

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F4947.RR

Level: (low/med) LOW Date Samp/Recv: 07/30/2002 08/01/2002

% Moisture: not dec. 9.3 Heated Purge: Y Date Analyzed: 08/02/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

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

| | | |
|---|----|---|
| 108-10-1-----4-Methyl-2-pentanone | 11 | U |
| 108-87-2-----Methylcyclohexane | 11 | U |
| 100-42-5-----Styrene | 11 | U |
| 79-34-5-----1,1,2,2-Tetrachloroethane | 11 | U |
| 127-18-4-----Tetrachloroethene | 11 | U |
| 108-88-3-----Toluene | 11 | U |
| 120-82-1-----1,2,4-Trichlorobenzene | 11 | U |
| 71-55-6-----1,1,1-Trichloroethane | 11 | U |
| 79-00-5-----1,1,2-Trichloroethane | 11 | U |
| 76-13-1-----1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | U |
| 79-01-6-----Trichloroethene | 44 | U |
| 75-69-4-----Trichlorofluoromethane | 11 | U |
| 75-01-4-----Vinyl chloride | 11 | U |
| 1330-20-7-----Total Xylenes | 11 | U |
| 103-65-1-----n-Propylbenzene | 11 | U |
| 99-87-6-----p-Cymene | 11 | U |
| 95-63-6-----1,2,4-Trimethylbenzene | 11 | U |
| 108-67-8-----1,3,5-Trimethylbenzene | 11 | U |
| 104-51-8-----n-Butylbenzene | 11 | U |
| 135-98-8-----sec-Butylbenzene | 11 | U |

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 BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
 TENTATIVELY IDENTIFIED COMPOUNDS

000020

Client No.

S073002EJ06 18-20

Lab Name: STL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2781601

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F4947.RR

Level: (low/med) LOW Date Samp/Recv: 07/30/2002 08/01/2002

% Moisture: not dec. 9.3 Date Analyzed: 08/02/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

Number TICs found: 3 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|-------------|-------------------|------|---------------|----------------|
| 1. | UNKNOWN | 1.43 | 10 | J |
| 2. | UNKNOWN | 1.67 | 7 | J |
| 3. 110-54-3 | HEXANE | 3.22 | 16 | BJN |

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 ANALYSIS DATA SHEET

000021

Client No

S073102EJ01 8-10

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL

Lab Sample ID: A2781602

Sample wt/vol: 5.01 (g/mL) G

Lab File ID: F4948.RR

Level: (low/med) LOW

Date Samp/Recv: 07/31/2002 08/01/2002

% Moisture: not dec. 13.3 Heated Purge: Y

Date Analyzed: 08/02/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

| | | | | |
|------------|-----------------------------|-----|----|------|
| 67-64-1 | Acetone | 12 | 8 | BF U |
| 71-43-2 | Benzene | | 12 | U |
| 75-27-4 | Bromodichloromethane | | 12 | U |
| 75-25-2 | Bromoform | | 12 | U |
| 74-83-9 | Bromomethane | | 12 | U |
| 78-93-3 | 2-Butanone | | 12 | U |
| 75-15-0 | Carbon Disulfide | | 12 | U |
| 56-23-5 | Carbon Tetrachloride | | 12 | U |
| 74-87-3 | Chloromethane | | 12 | U |
| 108-90-7 | Chlorobenzene | | 12 | U |
| 75-00-3 | Chloroethane | | 12 | U |
| 110-82-7 | Cyclohexane | | 12 | U |
| 67-66-3 | Chloroform | | 12 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 120 | | U |
| 124-48-1 | Dibromochloromethane | | 12 | U |
| 75-71-8 | Dichlorodifluoromethane | | 12 | U |
| 106-93-4 | 1,2-Dibromoethane | | 12 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 12 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 12 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 12 | U |
| 75-34-3 | 1,1-Dichloroethane | | 12 | U |
| 107-06-2 | 1,2-Dichloroethane | | 12 | U |
| 75-35-4 | 1,1-Dichloroethene | | 12 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 170 | | |
| 156-60-5 | trans-1,2-Dichloroethene | | 12 | U |
| 78-87-5 | 1,2-Dichloropropane | | 12 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 12 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 12 | U |
| 100-41-4 | Ethylbenzene | | 12 | U |
| 591-78-6 | 2-Hexanone | | 12 | U |
| 98-82-8 | Isopropylbenzene | | 12 | U |
| 79-20-9 | Methyl acetate | | 12 | U |
| 75-09-2 | Methylene chloride | 12 | 10 | BF U |
| 1634 04-4 | Methyl tert butyl ether | | 12 | U |

BERGMANN ASSOCIATES, INC.
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 BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
 ANALYSIS DATA SHEET

000022

Client No.

S073102EJ01 8-10

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL

Lab Sample ID: A2781602

Sample wt/vol: 5.01 (g/mL) G

Lab File ID: F4948.RR

Level: (low/med) LOW

Date Samp/Recv: 07/31/2002 08/01/2002

% Moisture: not dec. 13.3 Heated Purge: Y

Date Analyzed: 08/02/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG 0

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | 0 |
|----------------|---------------------------------------|-----------------|-------|--------------|
| 108-10-1----- | 4-Methyl-2-pentanone | | 12 | U |
| 108-87-2----- | Methylcyclohexane | | 12 | U |
| 100-42-5----- | Styrene | | 12 | U |
| 79-34-5----- | 1,1,2,2-Tetrachloroethane | | 12 | U |
| 127-18-4----- | Tetrachloroethene | | 12 | U |
| 108-88-3----- | Toluene | | 12 | U |
| 120-82-1----- | 1,2,4-Trichlorobenzene | | 12 | U |
| 71-55-6----- | 1,1,1-Trichloroethane | | 12 | U |
| 79-00-5----- | 1,1,2-Trichloroethane | | 12 | U |
| 76-13-1----- | 1,1,2-Trichloro-1,2,2-trifluoroethane | | 12 | U |
| 79-01-6----- | Trichloroethene | 3600 | 990 | U |
| 75-69-4----- | Trichlorofluoromethane | | 12 | U |
| 75-01-4----- | Vinyl chloride | | 5 | J |
| 1330-20-7----- | Total Xylenes | | 12 | U |
| 103-65-1----- | n-Propylbenzene | | 12 | U |
| 99-87-6----- | p-Cymene | | 12 | U |
| 95-63-6----- | 1,2,4-Trimethylbenzene | | 12 | U |
| 108-67-8----- | 1,3,5-Trimethylbenzene | | 12 | U |
| 104-51-8----- | n-Butylbenzene | | 12 | U |
| 135-98-8----- | sec-Butylbenzene | | 12 | U |

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 BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
 TENTATIVELY IDENTIFIED COMPOUNDS

000023

Client No.

S073102EJ01 8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2781602

Sample wt/vol: 5.01 (g/mL) G Lab File ID: F4948.RR

Level: (low/med) LOW Date Samp/Recv: 07/31/2002 08/01/00

% Moisture: not dec. 13.3 Date Analyzed: 08/02/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

Number TICs found: 0 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---------|---------------|----|------------|---|
| | | | | |

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 ANALYSIS DATA SHEET

000024

Client No

S073102EJ01 8-10 DL

Lab Name: SIL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2781602DL

Sample wt/vol: 4.05 (g/mL) G Lab File ID: F4973.RR

Level: (low/med) MED Date Samp/Recv: 07/31/2002 08/01/2002

% Moisture: not dec. 13.3 Heated Purge: N Date Analyzed: 08/06/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100.00 (uL)

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/KG | Q |
|------------|-----------------------------|---|-------|-----|
| 67-64-1 | Acetone | | 260 | BDJ |
| 71-43-2 | Benzene | | 1400 | U |
| 75-27-4 | Bromodichloromethane | | 1400 | U |
| 75-25-2 | Bromoform | | 1400 | U |
| 74-83-9 | Bromomethane | | 1400 | U |
| 78-93-3 | 2-Butanone | | 1400 | U |
| 75-15-0 | Carbon Disulfide | | 1400 | U |
| 56-23-5 | Carbon Tetrachloride | | 1400 | U |
| 74-87-3 | Chloromethane | | 1400 | U |
| 108-90-7 | Chlorobenzene | | 1400 | U |
| 75-00-3 | Chloroethane | | 1400 | U |
| 110-82-7 | Cyclohexane | | 1400 | U |
| 67-66-3 | Chloroform | | 1400 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 14000 | U |
| 124-48-1 | Dibromochloromethane | | 1400 | U |
| 75-71-8 | Dichlorodifluoromethane | | 1400 | U |
| 106-93-4 | 1,2-Dibromoethane | | 1400 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 1400 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 1400 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 1400 | U |
| 75-34-3 | 1,1-Dichloroethane | | 1400 | U |
| 107-06-2 | 1,2-Dichloroethane | | 1400 | U |
| 75-35-4 | 1,1-Dichloroethene | | 1400 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 180 | DJ |
| 156-60-5 | trans-1,2-Dichloroethene | | 1400 | U |
| 78-87-5 | 1,2-Dichloropropane | | 1400 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 1400 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 1400 | U |
| 100-41-4 | Ethylbenzene | | 1400 | U |
| 591-78-6 | 2-Hexanone | | 1400 | U |
| 98-82-8 | Isopropylbenzene | | 1400 | U |
| 79-20-9 | Methyl acetate | | 1400 | U |
| 75-09-2 | Methylene chloride | | 720 | BDJ |
| 1634-04-4 | Methyl tert butyl ether | | 1400 | U |

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 ANALYSIS DATA SHEET

000025

Client No

S073102EJ01 8-10 DL

Lab Name: SIL Buffalo

Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL

Lab Sample ID: A2781602DL

Sample wt/vol: 4.05 (g/mL) G

Lab File ID: F4973.RR

Level: (low/med) MED

Date Samp/Recv: 07/31/2002 08/01/20 2

% Moisture: not dec. 13.3 Heated Purge: N

Date Analyzed: 08/06/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100.00 (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | 0 |
|-----------|---------------------------------------|-----------------|-------|-----|
| 108-10-1 | 4-Methyl-2-pentanone | 1400 | | U |
| 108-87-2 | Methylcyclohexane | 1400 | | U |
| 100-42-5 | Styrene | 1400 | | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1400 | | U |
| 127-18-4 | Tetrachloroethene | 1400 | | U |
| 108-88-3 | Toluene | 180 | | BDJ |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1400 | | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1400 | | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1400 | | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1400 | | U |
| 79-01-6 | Trichloroethene | 3600 | | D |
| 75-69-4 | Trichlorofluoromethane | 1400 | | U |
| 75-01-4 | Vinyl chloride | 1400 | | U |
| 1330-20-7 | Total Xylenes | 1400 | | U |
| 103-65-1 | n-Propylbenzene | 1400 | | U |
| 99-87-6 | p-Cymene | 1400 | | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1400 | | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1400 | | U |
| 104-51-8 | n-Butylbenzene | 1400 | | U |
| 135-98-8 | sec-Butylbenzene | 1400 | | U |

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TENTATIVELY IDENTIFIED COMPOUNDS

000026

Client No

S073102EJ01 8-10 DL

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL

Lab Sample ID: A2781602DL

Sample wt/vol: 4.05 (g/mL) G

Lab File ID: F4973.RR

Level: (low/med) MED

Date Samp/Recv: 07/31/2002 08/01/2002

% Moisture: not dec. 13.3

Date Analyzed: 08/06/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: 10000 (uL)

Soil Aliquot Volume: 100.00 (uL)

Number TICs found: 3

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|-------------|---------------|------|------------|-----|
| 1. | UNKNOWN | 1.88 | 1100 | J |
| 2. | UNKNOWN | 2.19 | 840 | J |
| 3. 110-54-3 | HEXANE | 3.21 | 1300 | BJN |

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 ANALYSIS DATA SHEET

000027

Client No.

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Lab Name: STL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) WATER Lab Sample ID: A2705904

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F4573.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2002 07/11/2002

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | UG/L | Q |
|------------|-----------------------------|------|------|
| 67-64-1 | Acetone | 6 | BU |
| 71-43-2 | Benzene | 5 | UU |
| 75-27-4 | Bromodichloromethane | 5 | UUUU |
| 75-25-2 | Bromoform | 5 | UUUU |
| 74-83-9 | Bromomethane | 5 | UUUU |
| 78-93-3 | 2-Butanone | 25 | UUUU |
| 75-15-0 | Carbon Disulfide | 5 | UUUU |
| 56-23-5 | Carbon Tetrachloride | 5 | UUUU |
| 74-87-3 | Chloromethane | 5 | UUUU |
| 108-90-7 | Chlorobenzene | 5 | UUUU |
| 75-00-3 | Chloroethane | 5 | UUUU |
| 110-82-7 | Cyclohexane | 10 | UUUU |
| 67-66-3 | Chloroform | 5 | UUUU |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5 | UUUU |
| 124-48-1 | Dibromochloromethane | 5 | UUUU |
| 75-71-8 | Dichlorodifluoromethane | 5 | UUUU |
| 106-93-4 | 1,2-Dibromoethane | 5 | UUUU |
| 95-50-1 | 1,2-Dichlorobenzene | 5 | UUUU |
| 541-73-1 | 1,3-Dichlorobenzene | 5 | UUUU |
| 106-46-7 | 1,4-Dichlorobenzene | 5 | UUUU |
| 75-34-3 | 1,1-Dichloroethane | 5 | UUUU |
| 107-06-2 | 1,2-Dichloroethane | 5 | UUUU |
| 75-35-4 | 1,1-Dichloroethene | 5 | UUUU |
| 156-59-2 | cis-1,2-Dichloroethene | 5 | UUUU |
| 156-60-5 | trans-1,2-Dichloroethene | 5 | UUUU |
| 78-87-5 | 1,2-Dichloropropane | 5 | UUUU |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | UUUU |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | UUUU |
| 100-41-4 | Ethylbenzene | 5 | UUUU |
| 591-78-6 | 2-Hexanone | 25 | UUUU |
| 98-82-8 | Isopropylbenzene | 5 | UUUU |
| 79-20-9 | Methyl acetate | 10 | UUUU |
| 75-09-2 | Methylene chloride | 4 | BU |
| 1634-04-4 | Methyl tert. butyl ether | 10 | U |

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 ANALYSIS DATA SHEET

000028

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECONY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) WATER Lab Sample ID: A2705904
 Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F4573.RR
 Level: (low/med) LOW Date Samp/Recv: 07/11/2002 07/11/2002
 % Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/20/2002
 GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

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

| CAS NO. | COMPOUND | UG/L | Q |
|-----------|---------------------------------------|------|---|
| 108-10-1 | 4-Methyl-2-pentanone | 25 | U |
| 108-87-2 | Methylcyclohexane | 10 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 75-69-4 | Trichlorofluoromethane | 5 | U |
| 75-01-4 | Vinyl chloride | 5 | U |
| 1330-20-7 | Total Xylenes | 5 | U |
| 103-65-1 | n-Propylbenzene | 5 | U |
| 99-87-6 | p-Cymene | 5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | U |
| 104-51-8 | n-Butylbenzene | 5 | U |
| 135-98-8 | sec-Butylbenzene | 5 | U |

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TENTATIVELY IDENTIFIED COMPOUNDS

000033

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNV Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) WATER Lab Sample ID: A2705904

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F4573.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2002 07/11/2002

% Moisture: not dec. _____ Date Analyzed: 07/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|-------------|---------------|------|------------|-----|
| 1. 110-54-3 | HEXANE | 3.21 | 7 | BJN |

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000030

Client No.

W071102EJ04 FB

Lab Name: STL Buffalo Contract: _____

Lab Code: RECONY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) WATER Lab Sample ID: A2705903

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F4572.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2002 07/11/2002

Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | UG/L | Q |
|------------|-----------------------------|------|----|
| 67-64-1 | Acetone | 3 | J |
| 71-43-2 | Benzene | 5 | U |
| 75-27-4 | Bromodichloromethane | 5 | U |
| 75-25-2 | Bromoform | 5 | U |
| 74-83-9 | Bromomethane | 5 | U |
| 78-93-3 | 2-Butanone | 25 | U |
| 75-15-0 | Carbon Disulfide | 5 | U |
| 56-23-5 | Carbon Tetrachloride | 5 | U |
| 74-87-3 | Chloromethane | 5 | U |
| 108-90-7 | Chlorobenzene | 5 | U |
| 75-00-3 | Chloroethane | 5 | U |
| 110-82-7 | Cyclohexane | 10 | U |
| 67-66-3 | Chloroform | 5 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5 | U |
| 124-48-1 | Dibromochloromethane | 5 | U |
| 75-71-8 | Dichlorodifluoromethane | 5 | U |
| 106-93-4 | 1,2-Dibromoethane | 5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5 | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 5 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | U |
| 100-41-4 | Ethylbenzene | 5 | U |
| 591-78-6 | 2-Hexanone | 25 | U |
| 98-82-8 | Isopropylbenzene | 5 | U |
| 79-20-9 | Methyl acetate | 10 | U |
| 75-09-2 | Methylene chloride | 3 | BJ |
| 1634-04-4 | Methyl tert butyl ether | 10 | U |

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 ANALYSIS DATA SHEET

000031

Client No.

W071102EJ04 FB

Lab Name: STL Buffalo Contract: _____

Lab Code: RBNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) WATER Lab Sample ID: A2705903

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F4572.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2002 07/11/2002

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/20/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

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

| CAS NO. | COMPOUND | UG/L | Q |
|-----------|---------------------------------------|------|---|
| 108-10-1 | 4-Methyl-2-pentanone | 25 | U |
| 108-87-2 | Methylcyclohexane | 10 | U |
| 100-42-5 | Styrene | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | U |
| 127-18-4 | Tetrachloroethene | 5 | U |
| 108-88-3 | Toluene | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | U |
| 79-01-6 | Trichloroethene | 5 | U |
| 75-69-4 | Trichlorofluoromethane | 5 | U |
| 75-01-4 | Vinyl chloride | 5 | U |
| 1330-20-7 | Total Xylenes | 5 | U |
| 103-65-1 | n-Propylbenzene | 5 | U |
| 99-87-6 | p-Cymene | 5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | U |
| 104-51-8 | n-Butylbenzene | 5 | U |
| 135-98-8 | sec-Butylbenzene | 5 | U |

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

000032

Client No.

W071102EJ04 FB

Lab Name: STL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) WATER

Lab Sample ID: A2705903

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: F4572.RR

Level: (low/med) LOW

Date Samp/Recv: 07/11/2002 07/11/2002

% Moisture: not dec. _____

Date Analyzed: 07/20/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 1

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|-------------|---------------|------|------------|-----|
| 1. 110-54-3 | HEXANE | 3.21 | 6 | BJN |

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - S - ASP 2000- METHOD 8270 SEMIVOLATILES
 ANALYSIS DATA SHEET

000033

Client No.

S073102EJ01 8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2781602

Sample wt/vol: 30.47 (g/mL) G Lab File ID: Z52632.RR

Level: (low/med) LOW Date Samp/Recv: 07/31/2002 08/01/2002

% Moisture: 12.4 decanted: (Y/N) N Date Extracted: 08/05/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/06/2002

Injection Volume: 2.00 (uL) Dilution Factor: 25.00

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|----------|------------------------------|-----------------|-------|---|
| 100-52-7 | Benzaldehyde | | 9300 | U |
| 108-95-2 | Phenol | | 9300 | U |
| 111-44-4 | Bis(2-chloroethyl) ether | | 9300 | U |
| 95-57-8 | 2-Chlorophenol | | 9300 | U |
| 95-48-7 | 2-Methylphenol | | 9300 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | | 9300 | U |
| 98-86-2 | Acetophenone | | 9300 | U |
| 106-44-5 | 4-Methylphenol | | 9300 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | | 9300 | U |
| 67-72-1 | Hexachloroethane | | 9300 | U |
| 98-95-3 | Nitrobenzene | | 9300 | U |
| 78-59-1 | Isophorone | | 9300 | U |
| 88-75-5 | 2-Nitrophenol | | 9300 | U |
| 105-67-9 | 2,4-Dimethylphenol | | 9300 | U |
| 111-91-1 | Bis(2-chloroethoxy) methane | | 9300 | U |
| 120-83-2 | 2,4-Dichlorophenol | | 9300 | U |
| 91-20-3 | Naphthalene | | 9300 | U |
| 106-47-8 | 4-Chloroaniline | | 9300 | U |
| 87-68-3 | Hexachlorobutadiene | | 9300 | U |
| 105-60-2 | Caprolactam | | 9300 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | | 9300 | U |
| 91-57-6 | 2-Methylnaphthalene | | 9300 | U |
| 77-47-4 | Hexachlorocyclopentadiene | | 9300 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | | 9300 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | | 9300 | U |
| 92-52-4 | Biphenyl | | 9300 | U |
| 91-58-7 | 2-Chloronaphthalene | | 9300 | U |
| 88-74-4 | 2-Nitroaniline | | 22000 | U |
| 131-11-3 | Dimethyl phthalate | | 9300 | U |
| 208-96-8 | Acenaphthylene | | 9300 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 9300 | U |
| 99-09-2 | 3-Nitroaniline | | 22000 | U |

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - S - ASP 2000- METHOD 8270 SEMIVOLATILES
 ANALYSIS DATA SHEET

000034

Client No.

S073102EJ01 8-10

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 7059

Matrix: (soil/water) SOIL

Lab Sample ID: A2781602

Sample wt/vol: 30.47 (g/mL) G

Lab File ID: Z52632.RR

Level: (low/med) LOW

Date Samp/Recv: 07/31/2002 08/01/2002

% Moisture: 12.4 decanted: (Y/N) N

Date Extracted: 08/05/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/06/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 25.00

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

CONCENTRATION UNITS:

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

| | | | |
|-----------|-----------------------------|----------|-----|
| 83-32-9 | Acenaphthene | 9300 | U |
| 51-28-5 | 2,4-Dinitrophenol | 22000 | U J |
| 100-02-7 | 4-Nitrophenol | 22000 | U |
| 132-64-9 | Dibenzofuran | 9300 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 9300 | U J |
| 84-66-2 | Diethyl phthalate | 9300 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 9300 | U |
| 86-73-7 | Fluorene | 9300 | U |
| 100-01-6 | 4-Nitroaniline | 22000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 22000 | U |
| 86-30-6 | N-nitrosodiphenylamine | 9300 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | 9300 | U |
| 118-74-1 | Hexachlorobenzene | 9300 | U |
| 1912-24-9 | Atrazine | 9300 | U |
| 87-86-5 | Pentachlorophenol | 22000 | U |
| 85-01-8 | Phenanthrene | 590 | J |
| 120-12-7 | Anthracene | 9300 560 | J U |
| 86-74-8 | Carbazole | 9300 | U |
| 84-74-2 | Di-n-butyl phthalate | 9300 | U |
| 206-44-0 | Fluoranthene | 700 | J |
| 129-00-0 | Pyrene | 480 | J |
| 85-68-7 | Butyl benzyl phthalate | 9300 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 9300 | U |
| 56-55-3 | Benzo (a) anthracene | 9300 | U |
| 218-01-9 | Chrysene | 270 | J |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 9300 | U |
| 117-84-0 | Di-n-octyl phthalate | 9300 | U |
| 205-99-2 | Benzo (b) fluoranthene | 9300 | U |
| 207-08-9 | Benzo (k) fluoranthene | 9300 | U |
| 50-32-8 | Benzo (a) pyrene | 9300 | U |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 9300 | U |
| 53-70-3 | Dibenzo (a, h) anthracene | 9300 | U |

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000- METHOD 8270 SEMIVOLATILES
ANALYSIS DATA SHEET

000035

Client No.

S073102EJ01 8-10

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL

Lab Sample ID: A0781602

Sample wt/vol: 30.47 (g/mL) G

Lab File ID: Z52632.RR

Level: (low/med) LOW

Date Samp/Recv: 07/31/2002 08/01/2002

% Moisture: 12.4 decanted: (Y/N) N

Date Extracted: 08/05/2002

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 08/06/2002

Injection Volume: 2.00 (uL)

Dilution Factor: 25.00

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/KG | Q |
|---------------|--------------------|-----------------|-------|---|
| 191-24-2----- | Benzo(ghi)perylene | | 9300 | U |

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000- METHOD 8270 SEMIVOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000036

Client No.

S073102EJ01 8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2781602

Sample wt/vol: 30.47 (g/mL) G Lab File ID: Z52632.RR

Level: (low/med) LOW Date Samp/Recv: 07/31/2002 08/01/2002

% Moisture: 12.4 decanted: (Y/N) N Date Extracted: 08/05/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 08/06/2002

Injection Volume: 2.00 (uL) Dilution Factor: 25.00

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

Number TICs found: 1

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---------|---------------|-------|------------|---|
| 1. | UNKNOWN | 25.53 | 2100 | J |

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - 5 - ASP00 8081 PESTICIDES
 ANALYSIS DATA SHEET

000037

Client No.

S073102EJ01 8-10

Lab Name: STL Buffalo Contract: _____

Lab Code: RBCNY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2781602

Sample wt/vol: 30.80 (g/mL) G Lab File ID: RA19372.TX0

% Moisture: 12.4 decanted: (Y/N) N Date Samp/Recv: 07/31/2002 08/01/02

Extraction: (SepF/Cont/Sonc/Sexh): SONC Date Extracted: 08/03/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/14/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> | Q |
|------------|---------------------|--|-----|
| 319-84-6 | alpha-BHC | 8.9 | U |
| 319-85-7 | beta-BHC | 8.9 | U |
| 319-86-8 | delta-BHC | 8.9 | U |
| 58-89-9 | gamma-BHC (Lindane) | 8.9 | U |
| 76-44-8 | Heptachlor | 8.9 | U |
| 309-00-2 | Aldrin | 8.9 | U |
| 1024-57-3 | Heptachlor epoxide | 8.9 | U |
| 959-98-8 | Endosulfan I | 18 | U |
| 60-57-1 | Dieldrin | 18 | U |
| 72-55-9 | 4,4'-DDE | 18 | U |
| 72-20-8 | Endrin | 18 | U |
| 33213-65-9 | Endosulfan II | 18 | U |
| 72-54-8 | 4,4'-DDD | 18 | U |
| 1031-07-8 | Endosulfan Sulfate | 18 | U |
| 50-29-3 | 4,4'-DDT | 18 | U |
| 72-43-5 | Methoxychlor | 6.3 | J ✓ |
| 53494-70-5 | Endrin ketone | 18 | U |
| 7421-93-4 | Endrin aldehyde | 36 | U |
| 5103-71-9 | alpha-Chlordane | 44 | U |
| 5103-74-2 | gamma-Chlordane | 44 | U |
| 8001-35-2 | Toxaphene | 180 | U |

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - S - ASP00 8082 - POLYCHLORINATED BIPHENYLS
 ANALYSIS DATA SHEET

000938

Client No:

S073102EJ01 8-10

Lab Name: STL Buffalo

Contract: _____

Lab Code: RBCNY

Case No.: _____

SAS No.: _____

SDG No.: 7059

Matrix: (soil/water) SOIL

Lab Sample ID: A2781602

Sample wt/vol: 30.53 (g/mL) G

Lab File ID: SA05150.TX0

% Moisture: 12.4 decanted: (Y/N) N

Date Samp/Recv: 07/31/2002 08/01/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC

Date Extracted: 08/03/2002

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 08/06/2002

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u> | Q |
|------------|------------------|--|---|
| 12674-11-2 | ----Aroclor 1016 | 90 | U |
| 11104-28-2 | ----Aroclor 1221 | 90 | U |
| 11141-16-5 | ----Aroclor 1232 | 90 | U |
| 53469-21-9 | ----Aroclor 1242 | 90 | U |
| 12672-29-6 | ----Aroclor 1248 | 90 | U |
| 11097-69-1 | ----Aroclor 1254 | 90 | U |
| 11096-82-5 | ----Aroclor 1260 | 90 | U |

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - S - ASP00 - 8151 - HERBICIDES (3 COMPS)
 ANALYSIS DATA SHEET

000038A

Client No.

S073102EJ01 2-4

Lab Name: STL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 7059

Matrix: (soil/water) SOIL Lab Sample ID: A2782104

Sample wt/vol: 30.37 (g/mL) G Lab File ID: MA67018.TX0

% Moisture: 25.6 decanted: (Y/N) N Date Samp/Recv: 07/30/2002 08/01/2002

Extraction: (SepF/Cont/Sonc/Soxh): SONC Date Extracted: 08/09/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 08/13/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: - Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:
(ug/L or ug/Kg) UC/KG Q

| CAS NO. | COMPOUND | CONCENTRATION | Q |
|--------------|-------------------|---------------|---|
| 93-76-5----- | 2,4,5-T | 23 420 | U |
| 93-72-1----- | 2,4,5-TP (Silvex) | 23 420 | U |
| 94-75-7----- | 2,4-D | 23 1100 | U |

BERGMANN ASSOCIATES, INC.

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S073102EJ01 B-10

Contract: NY01-449

Lab Code: STLBFL0

Case No.:

SAS No.:

SDG NO.: 7059

Matrix (soil/water): SOIL

Lab Sample ID: AD218810

Level (low/med): LOW

Date Received: 8/1/02

Solids: 88

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|------|----|
| 7429-90-5 | Aluminum | 6630 | | | P |
| 7440-36-0 | Antimony | 0.60 | U | N J | P |
| 7440-38-2 | Arsenic | 4.4 | | | P |
| 7440-39-3 | Barium | 45.2 | | N | P |
| 7440-41-7 | Beryllium | 0.39 | B | | P |
| 7440-43-9 | Cadmium | 0.03 | U | | P |
| 7440-70-2 | Calcium | 10800 | | E J | P |
| 7440-47-3 | Chromium | 10.4 | | E J | P |
| 7440-48-4 | Cobalt | 6.3 | | E J | P |
| 7440-50-8 | Copper | 20.3 | | | P |
| 7439-89-6 | Iron | 15600 | | E J | P |
| 7439-92-1 | Lead | 11.1 | | | P |
| 7439-95-4 | Magnesium | 3370 | | | P |
| 7439-96-5 | Manganese | 198 | | N* J | P |
| 7440-02-0 | Nickel | 17.3 | | E J | P |
| 7440-09-7 | Potassium | 1060 | | E J | P |
| 7782-49-2 | Selenium | 0.45 | U | | P |
| 7440-22-4 | Silver | 0.06 | B | | P |
| 7439-97-6 | Mercury | 0.005 | U | | CV |
| 7440-23-5 | Sodium | 66.2 | B | | P |
| 7440-28-0 | Thallium | 0.44 | U | | P |
| 7440-62-2 | Vanadium | 15.0 | | | P |
| 7440-66-6 | Zinc | 62.4 | | NE J | P |

Color Before: BROWN

Clarity Before: N/A

Texture: MUD

Color After: YELLOW

Clarity After: CLDY/F

Artifacts:

Comments:

Bergmann Associates, Inc.
 Bergmann Assoc. - Gowanda Day Habilitation Center
 Wet Chemistry Analysis

000010

Client Sample No.

S073002EJ06 18-20

Lab Name: SIL Buffalo

Contract: _____

Lab Code: REONY

Case No.: _____

SAS No.: _____

SDG No.: 7059

Matrix (soil/water): SOIL

Lab Sample ID: A2781601

% Solids: 90.7

Date Samp/Recv: 07/30/2002 08/01/2002

| Parameter Name | Units of Measure | Result | C | Q | M | Method Number | Analyzed Date |
|----------------|------------------|--------|---|---|---|---------------|---------------|
| Leachable pH | S.U. | 9.45 | | | | 9045 | 08/13/200 |

Comments:

Bergmann Associates, Inc.
 Bergmann Assoc. - Gowanda Day Habilitation Center
 Wet Chemistry Analysis

000041

Client Sample No.

8073102EJ01 8-10

Lab Name: SIL Buffalo

Contract: _____

Lab Code: RECNV

Case No.: _____

SAS No.: _____

SDG No.: 7059

Matrix (soil/water): SOIL

Lab Sample ID: A2781602

% Solids: 87.6

Date Samp/Recv: 07/31/2002 08/01/2002

| Parameter Name | Units of Measure | Result | C | Q | M | Method Number | Analyzed Date |
|----------------|------------------|--------|---|---|---|---------------|---------------|
| Leachable pH | S.U. | 8.11 | | | | 9045 | 08/13/2002 |

Comments:

Bergmann Associates, Inc.
Bergmann Assoc. - Gowanda Day Habilitation Center
Wet Chemistry Analysis

Client Sample No.

S073102EJ01 2-4

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 7059

Matrix (soil/water): SOIL

Lab Sample ID: A2782104

% Solids: 0.0

Date Samp/Recv: ²¹07/20/2002 08/01/2002
_{8/2/03}

| Parameter Name | Units of Measure | Result | C | Q | M | Method Number | Analyzed Date |
|-----------------|------------------|------------------------|---|---|---|---------------|---------------|
| Cyanide - Total | UG/KG | ⁵⁰⁰ 4000 | U | J | | 9012 | 08/24/2002 |

Comments:

Bergmann Associates, Inc.
 Bergmann Assoc. - Gowanda Day Habilitation Center
 Wet Chemistry Analysis

000012

Client Sample No.

S073102EJ01 2-4

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 7059

Matrix (soil/water): SOIL

Lab Sample ID: A2782104

Solids: 0.0

Date Samp/Recv: ^{31st}07/20/2002 08/01/2002

| Parameter Name | Units of Measure | Result | C | Q | M | Method Number | Analyzed Date |
|-----------------|------------------|--------|---|---|---|---------------|---------------|
| Cyanide - Total | UG/KG | 10000 | U | | | 9012 | 08/24/2002 |

Comments:



STL Buffalo
10 Hazelwood Drive
Suite 106
Amherst, NY 14228

Tel: 716 691 2600
Fax: 716 691 7991
www.stlinc.com

ANALYTICAL REPORT

Job#: A02-8664, A02-8763

STL Project#: NY2A8896
SDG#: 8664
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center
Task: SW8463 DELIVERABLES

SW846 Groundwater
Samples

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

STL Buffalo

Brian J. Fischer
Project Manager

09/20/2002

This report contains 117 pages which are individually numbered.

000001

SAMPLE SUMMARY

| <u>LAB SAMPLE ID</u> | <u>CLIENT SAMPLE ID</u> | <u>SAMPLED</u> | | <u>RECEIVED</u> | |
|----------------------|-------------------------|----------------|-------------|-----------------|-------------|
| | | <u>DATE</u> | <u>TIME</u> | <u>DATE</u> | <u>TIME</u> |
| A2866408 | TRIP BLANK | 08/29/2002 | | 08/30/2002 | 09:40 |
| A2876302 | TRIP BLANK | 09/04/2002 | | 09/05/2002 | 13:40 |
| A2866417 | W082802EJ-02 | 08/28/2002 | 16:30 | 08/30/2002 | 09:40 |
| A2866414 | W082802EJ-03 | 08/28/2002 | 14:20 | 08/30/2002 | 09:40 |
| A2866412 | W082802EJ-04 | 08/28/2002 | 12:55 | 08/30/2002 | 09:40 |
| A2866415 | W082802EJ-05 | 08/28/2002 | 14:35 | 08/30/2002 | 09:40 |
| A2866413 | W082802EJ-08 | 08/28/2002 | 13:15 | 08/30/2002 | 09:40 |
| A2866411 | W082802EJ-10 | 08/28/2002 | 11:30 | 08/30/2002 | 09:40 |
| A2866416 | W082802EJ-13 | 08/28/2002 | 15:40 | 08/30/2002 | 09:40 |
| A2866410 | W082802EJ-9 | 08/28/2002 | 13:25 | 08/30/2002 | 09:40 |
| A2866418 | W082902EJ-06 | 08/29/2002 | 09:30 | 08/30/2002 | 09:40 |
| A2866401 | W082902EJ-07D | 08/29/2002 | 13:20 | 08/30/2002 | 09:40 |
| A2866402 | W082902EJ-11 | 08/29/2002 | 15:20 | 08/30/2002 | 09:40 |
| A2866403 | W082902EJ-12 | 08/29/2002 | 16:15 | 08/30/2002 | 09:40 |
| A2866419 | W082902EJ-14 | 08/29/2002 | 12:10 | 08/30/2002 | 09:40 |
| A2866404 | W082902EJ-FB | 08/29/2002 | 18:15 | 08/30/2002 | 09:40 |
| A2876301 | W090402EJ-01D | 09/04/2002 | 11:00 | 09/05/2002 | 13:40 |

METHODS SUMMARY

000002

Job#: A02-8664,A02-8763STL Project#: NY2A8896SDG#: 8664Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> |
|--|--------------------------|
| BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS | SW8463 8260/5ML |
| BERG - W- METHOD 8270 - TCL SEMI-VOLATILE ORGANICS | SW8463 8270 |
| BERG - W - METHOD 8082 - POLYCHLORINATED BIPHENYLS | SW8463 8082 |
| BERG - W - SW8463 8081 - TCL PESTICIDES | SW8463 8081 |
| BERG - W - SW8463 8151 - HERBICIDES (3 COMPS) | SW8463 8151 |
| Aluminum - Total | SW8463 6010 |
| Antimony - Total | SW8463 6010 |
| Arsenic - Total | SW8463 6010 |
| Barium - Total | SW8463 6010 |
| Beryllium - Total | SW8463 6010 |
| Cadmium - Total | SW8463 6010 |
| Calcium - Total | SW8463 6010 |
| Chromium - Total | SW8463 6010 |
| Cobalt - Total | SW8463 6010 |
| Copper - Total | SW8463 6010 |
| Iron - Total | SW8463 6010 |
| Lead - Total | SW8463 6010 |
| Magnesium - Total | SW8463 6010 |
| Manganese - Total | SW8463 6010 |
| Mercury - Total | SW8463 7470 |
| Nickel - Total | SW8463 6010 |
| Potassium - Total | SW8463 6010 |
| Selenium - Total | SW8463 6010 |
| Silver - Total | SW8463 6010 |
| Sodium - Total | SW8463 6010 |
| Thallium - Total | SW8463 6010 |
| Vanadium - Total | SW8463 6010 |
| Zinc - Total | SW8463 6010 |
| Cyanide - Total | SW8463 9012 |

000003

References:

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

000004

NON-CONFORMANCE SUMMARY

Job#: A02-8664, A02-8763

STL Project#: NY2A8896

SDG#: 8664

Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-8664

Sample Cooler(s) were received at the following temperature(s); 3@6 °C
One amber was broken for point W082902EJ-1D.

A02-8763

Sample Cooler(s) were received at the following temperature(s); 10 °C
Sample(s) were received at a temperature of >10°C. However, ice was present in the cooler and as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt.

STL Buffalo internal validation reports are included in this report as Appendix A.

GC/MS Volatile Data

The analytes Acetone, Methylene Chloride and Toluene were detected in the Method Blank (VBLK96) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC/MS Semivolatile Data

The percent difference of analyte 2,4-Dinitrophenol was below laboratory control limits in the Continuing Calibration Verification A2C0004446. All samples should be considered biased low for this analyte.

The relative percent difference between the Matrix Spike Blank A2B0849101 and the Matrix Spike Blank Duplicate A2B0849102 exceeded quality control criteria for 1,2,4-Trichlorobenzene, Acenaphthene, Pentachlorophenol, and Pyrene. However, all individual recoveries were compliant.

GC Extractable Data

For method 8082, the recovery of the surrogate Decachlorobiphenyl in samples W082902EJ-12 and W082902EJ-06 are outside of established quality control limits due to matrix interferences, the recovery of the surrogate Tetrachloro-m-xylene was within quality control limits, no corrective action was required.

For method 8082, the recovery of the surrogate Tetrachloro-m-xylene in sample A2B0859403 is slightly outside of established quality control limits, the recovery of the surrogate Decachlorobiphenyl was within quality control criteria. No corrective action was required.

For method 8081, the recovery of the surrogate Decachlorobiphenyl in samples W082902EJ-12 and W082902EJ-06 are outside of established quality control limits. The recovery of the surrogate Tetrachloro-m-xylene was also out of limits for W082902EJ-06 due to matrix interferences. This is fairly consistent with the 8082 results, no corrective action is required.

The recovery of surrogate Decachlorobiphenyl for the Method 8081 (Pesticide) analysis of sample W090402EJ-01D was outside of established quality control limits. The recovery of surrogate Tetrachloro-m-xylene was within quality control limits; no corrective action was required.

Metals Data

The recovery of sample W090402EJ 01D Matrix Spike exhibited results below quality control limits for Iron. The recovery of sample W090402EJ-01D Matrix Spike Duplicate exhibited results below quality control limits for Calcium and Iron. The relative percent difference between the samples exceeded quality control criteria for Calcium and Iron. However, the LFB (A2B0859201) was compliant.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Parameter (Inorganic)/Method (Organic)</u> | <u>Dilution</u> | <u>Code</u> |
|-------------------------|----------------------|---|-----------------|-------------|
| W082902EJ-07DDL | A2866401DL | 8260/5ML | 2.00 | 008 |
| W082902EJ-11DL | A2866402DL | 8260/5ML | 40.00 | 008 |
| W082902EJ-12DL | A2866403DL | 8260/5ML | 50.00 | 008 |
| W082802EJ-13DL | A2866416DL | 8260/5ML | 2.00 | 008 |
| W082902EJ-06DL | A2866418DL | 8260/5ML | 4.00 | 008 |
| W090402EJ-01DDL | A2876301DL | 8260/5ML | 4.00 | 008 |

000006

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - non-target compounds (TICS) exceeded 5X the total response of one of the Internal Standards
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

DATA COMMENT PAGE

000007

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS
- B This flag is used when the analyte is found in the associated blank, as well as in the sample
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds where the identification is based on the Mass Spectral library search. It is applied to all TIC results
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P"
- A This flag indicates that a TIC is a suspected aldol-condensation product
- Indicates coelution
- Indicates analysis is not within the quality control limits

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit
- N Indicates spike sample recovery is not within the quality control limits
- K Indicates the post digestion spike recovery is not within the quality control limits
- S indicates value determined by the Method of Standard Addition
- M Indicates duplicate injection results exceeded quality control limits
- W Post digestion spike for Furnace AA analysis is out of quality control limits (90-115%) while sample absorbance is less than 50% of spike absorbance
- E Indicates a value estimated or not reported due to the presence of interferences
- H Indicates analyte's holding time exceeded 10 minutes obtained should be considered an estimate
- Indicates analysis is not within the quality control limits
- Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995

000008

Sample Data Package

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|-------------|-----------------------------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | W082802EJ-02 | | A02-8664 | A2866417 | 08/28/2002 | A02-8664 | A2866414 | 08/28/2002 | A02-8664 | 08/28/2002 |
| Sample Date | W082802EJ-03 | | A02-8664 | A2866412 | 08/28/2002 | A02-8664 | A2866412 | 08/28/2002 | A02-8664 | 08/28/2002 |
| Analyte | Acetone | UG/L | ND | 25 | ND | 25 | 25 | ND | ND | 25 |
| | Benzene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Bromodichloromethane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Bromoform | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Bromomethane | UG/L | ND | 10 | ND | 10 | 10 | ND | ND | 10 |
| | 2-Butanone | UG/L | ND | 10 | ND | 10 | 10 | ND | ND | 10 |
| | Carbon Disulfide | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Carbon Tetrachloride | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Chloroethane | UG/L | ND | 10 | ND | 10 | 10 | ND | ND | 10 |
| | Chlorobenzene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Chloroethane | UG/L | ND | 10 | ND | 10 | 10 | ND | ND | 10 |
| | Cyclohexane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Chloroform | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,2-Dibromo-3-chloropropane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Dibromochloromethane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Dichlorodifluoromethane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,2-Dibromoethane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,2-Dichlorobenzene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,3-Dichlorobenzene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,4-Dichlorobenzene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,1-Dichloroethane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,2-Dichloroethane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,1-Dichloroethene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | cis-1,2-Dichloroethene | UG/L | ND | 5.0 | 9.6 | 5.0 | 5.0 | 2.0 J | 1.7 J | 5.0 |
| | trans-1,2-Dichloroethene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,2-Dichloropropane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | cis-1,3-Dichloropropene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | trans-1,3-Dichloropropene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Ethylbenzene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 2-Hexanone | UG/L | ND | 10 | ND | 10 | 10 | ND | ND | 10 |
| | Isopropylbenzene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Methyl acetate | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Methylene chloride | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Methyl tert butyl ether | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 4-Methyl-2-pentanone | UG/L | ND | 10 | ND | 10 | 10 | ND | ND | 10 |
| | Methylcyclohexane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Styrene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,1,2,2-Tetrachloroethane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Tetrachloroethene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | Toluene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,2,4-Trichlorobenzene | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,1,1-Trichloroethane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |
| | 1,1,2-Trichloroethane | UG/L | ND | 5.0 | ND | 5.0 | 5.0 | ND | ND | 5.0 |

000009

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|--------------------------------|------------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | A02-8664 | | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Sample Date | 08/28/2002 | | 4.7 J | 5.0 | 1.8 J | 5.0 | ND | 5.0 |
| | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1,2-Trichloro-1,2,2-trifluor | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Trichloroethene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Trichlorofluoromethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Vinyl chloride | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Total Xylenes | | UG/L | ND | 15 | ND | 15 | ND | 15 |
| n-Propylbenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| p-Cymene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2,4-Trimethylbenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,3,5-Trimethylbenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| n-Butylbenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| sec-Butylbenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| IS/SURROGATE(S) | | | | | | | | |
| Chlorobenzene-D5 | | % | 98 | 50-200 | 98 | 50-200 | 99 | 50-200 |
| 1,4-Difluorobenzene | | % | 96 | 50-200 | 96 | 50-200 | 98 | 50-200 |
| 1,4-Dichlorobenzene-D4 | | % | 95 | 50-200 | 95 | 50-200 | 96 | 50-200 |
| Toluene-D8 | | % | 101 | 77-122 | 100 | 77-122 | 101 | 77-122 |
| p-Bromofluorobenzene | | % | 99 | 73-120 | 99 | 73-120 | 100 | 73-120 |
| 1,2-Dichloroethane-D4 | | % | 100 | 76-136 | 100 | 76-136 | 100 | 76-136 |

000010

| Client ID | Lab ID | units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|-----------------------------|--------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | | | | | | | | | | |
| Sample Date | | | | | | | | | | |
| Acetone | | UG/L | ND | 25 | ND | 25 | ND | 25 | ND | 25 |
| Benzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Bromodichloromethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Bromoform | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Bromomethane | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| 2-Butanone | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| Carbon Disulfide | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Carbon Tetrachloride | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Chloromethane | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| Chlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Chloroethane | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| Cyclohexane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Chloroform | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2-Dibromo-3-chloropropane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Dibromochloromethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Dichlorodifluoromethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2-Dibromoethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2-Dichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,3-Dichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,4-Dichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1-Dichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2-Dichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1-Dichloroethene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| cis-1,2-Dichloroethene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| trans-1,2-Dichloroethene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2-Dichloropropane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| cis-1,3-Dichloropropene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| trans-1,3-Dichloropropene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Ethylbenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 2-Hexanone | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| Isopropylbenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Methyl acetate | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Methylene chloride | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Methyl tert butyl ether | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 4-Methyl-2-pentanone | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 |
| Methylcyclohexane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Styrene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1,2,2-Tetrachloroethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Tetrachloroethene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Toluene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2,4-Trichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1,1-Trichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1,2-Trichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 |

000011

| Client ID | Lab ID | Sample Date | Units | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | | | | | | | |
|--------------------------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|----------|------------|----------|----------------|----------|------------|------------|
| | W082802EJ-08 | A02-8664 | 08/28/2002 | A2866413 | W082802EJ-10 | A02-8664 | 08/28/2002 | A2866411 | W082802EJ-13 | A02-8664 | 08/28/2002 | A2866416 | W082802EJ-13DL | A02-8664 | 08/28/2002 | A2866418DL |
| Analyte | Units | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluor | UG/L | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | | | | | | | |
| Trichloroethene | UG/L | 5.0 | 1.4 J | 5.0 | 2.6 J | 5.0 | ND | 5.0 | 250 J | | | | | | | |
| Trichlorofluoromethane | UG/L | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | | | | | | | |
| Vinyl chloride | UG/L | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | | | | | | | |
| Total Xylenes | UG/L | 15 | ND | 15 | ND | 15 | ND | 15 | ND | | | | | | | |
| n-Propylbenzene | UG/L | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | | | | | | | |
| p-Cymene | UG/L | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | | | | | | | |
| 1,2,4-Trimethylbenzene | UG/L | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | | | | | | | |
| 1,3,5-Trimethylbenzene | UG/L | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | | | | | | | |
| n-Butylbenzene | UG/L | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | | | | | | | |
| sec-Butylbenzene | UG/L | 5.0 | ND | 5.0 | ND | 5.0 | ND | 5.0 | ND | | | | | | | |
| -IS/SURROGATE(S) | | | | | | | | | | | | | | | | |
| Chlorobenzene-D5 | % | 50-200 | 96 | 50-200 | 106 | 50-200 | 99 | 50-200 | 88 | | | | | | | |
| 1,4-Difluorobenzene | % | 50-200 | 97 | 50-200 | 105 | 50-200 | 96 | 50-200 | 88 | | | | | | | |
| 1,4-Dichlorobenzene-D4 | % | 50-200 | 97 | 50-200 | 104 | 50-200 | 96 | 50-200 | 96 | | | | | | | |
| Toluene-D8 | % | 77-122 | 101 | 77-122 | 93 | 77-122 | 99 | 77-122 | 104 | | | | | | | |
| p-Bromofluorobenzene | % | 73-120 | 100 | 73-120 | 91 | 73-120 | 98 | 73-120 | 96 | | | | | | | |
| 1,2-Dichloroethane-D4 | % | 76-136 | 99 | 76-136 | 91 | 76-136 | 100 | 76-136 | 92 | | | | | | | |

000012

Date: 09/20/2002
Time: 15:31:43

Bergmann Assoc. - Gowanda Day Rehabilitation Center
598463 DELIVERABLES
BERG -W- METH B260 - TCL VOLATILE ORGANICS + STARS

Rept: AM0326

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|-----------------------------|--------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Acetone | | UG/L | ND | 25 | ND | 25 | ND | 100 | ND | 25 |
| Benzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Bromodichloromethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Bromoform | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Bromomethane | | UG/L | ND | 10 | ND | 10 | ND | 40 | ND | 10 |
| 2-Butanone | | UG/L | ND | 10 | ND | 10 | ND | 40 | ND | 10 |
| Carbon Disulfide | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Carbon Tetrachloride | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Chloromethane | | UG/L | ND | 10 | ND | 10 | ND | 40 | ND | 10 |
| Chlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Chloroethane | | UG/L | ND | 10 | ND | 10 | ND | 40 | ND | 10 |
| Cyclohexane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Chloroform | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,2-Dibromo-3-chloropropane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Dibromochloromethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Dichlorodifluoromethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,2-Dibromoethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,2-Dichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,3-Dichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,4-Dichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,1-Dichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,2-Dichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,1-Dichloroethene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| cis-1,2-Dichloroethene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| trans-1,2-Dichloroethene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,2-Dichloropropane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| cis-1,3-Dichloropropane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| trans-1,3-Dichloropropane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Ethylbenzene | | UG/L | ND | 10 | ND | 10 | ND | 40 | ND | 10 |
| 2-Hexanone | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Isopropylbenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Methyl acetate | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Methylene chloride | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Methyl tert butyl ether | | UG/L | ND | 10 | ND | 10 | ND | 40 | ND | 10 |
| n-Methyl-2-pentanone | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Methylcyclohexane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Styrene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,1,2,2-Tetrachloroethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Tetrachloroethene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| Toluene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,2,4-Trichlorobenzene | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,1,1-Trichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |
| 1,1,2-Trichloroethane | | UG/L | ND | 5.0 | ND | 5.0 | ND | 20 | ND | 5.0 |

000013

NA = Not Applicable ND = Not Detected

STL Buffalo

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|-------------|--------------------------------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | A02-8664 | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Sample Date | 08/28/2002 | UG/L | 4.2 J | 5.0 | ND | 5.0 | ND | 5.0 |
| Analyte | 1,1,2-Trichloro-1,2,2-trifluor | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| | Trichloroethene | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| | Trichlorofluoromethane | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| | Vinyl chloride | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| | Total Xylenes | UG/L | ND | 15 | ND | 15 | ND | 15 |
| | n-Propylbenzene | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| | p-Cymene | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| | 1,2,4-Trimethylbenzene | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| | 1,3,5-Trimethylbenzene | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| | n-Butylbenzene | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| | sec-Butylbenzene | UG/L | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| | IS/SURROGATE(S) | % | 103 | 50-200 | 96 | 50-200 | 108 | 50-200 |
| | Chlorobenzene-D5 | % | 101 | 50-200 | 97 | 50-200 | 107 | 50-200 |
| | 1,4-Difluorobenzene | % | 100 | 50-200 | 78 | 50-200 | 105 | 50-200 |
| | 1,4-Dichlorobenzene-D4 | % | 97 | 77-122 | 101 | 77-122 | 97 | 77-122 |
| | Toluene-D8 | % | 96 | 73-120 | 91 | 73-120 | 96 | 73-120 |
| | p-Bromofluorobenzene | % | 96 | 76-136 | 92 | 76-136 | 95 | 76-136 |
| | 1,2-Dichloroethane-D4 | % | 96 | | | | | |

000014

| Client ID | Lab ID | W082902EJ-0700L | A02-8664 | 08/29/2002 | AZ8664010L | W082902EJ-11 | A02-8664 | 08/29/2002 | AZ866402 | W082902EJ-11DL | A02-8664 | 08/29/2002 | AZ866402DY | W082902EJ-12 | A02-8664 | 08/29/2002 | AZ866403 |
|-----------------------------|-------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|----------|
| Job No | Sample Date | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | |
| Analyte | Units | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | UG/L | |
| Acetone | UG/L | ND | ND | 25 | ND | 25 | ND | 1000 | ND | 1000 | ND | 25 | ND | 25 | ND | 25 | |
| Benzene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Bromodichloromethane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Bromoform | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Bromomethane | UG/L | ND | ND | 10 | ND | 10 | ND | 400 | ND | 400 | ND | 10 | ND | 10 | ND | 10 | |
| 2-Butanone | UG/L | ND | ND | 10 | ND | 10 | ND | 400 | ND | 400 | ND | 10 | ND | 10 | ND | 10 | |
| Carbon Disulfide | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Carbon Tetrachloride | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Chlorobenzene | UG/L | ND | ND | 10 | ND | 10 | ND | 400 | ND | 400 | ND | 10 | ND | 10 | ND | 10 | |
| Chloroethane | UG/L | ND | ND | 10 | ND | 10 | ND | 400 | ND | 400 | ND | 10 | ND | 10 | ND | 10 | |
| Cyclohexane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Chloroform | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,2-Dibromo-3-chloropropane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Dibromochloromethane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Dichlorodifluoromethane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,2-Dibromoethane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,2-Dichlorobenzene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,3-Dichlorobenzene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,4-Dichlorobenzene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,1-Dichloroethane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,2-Dichloroethane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,1-Dichloroethene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| cis-1,2-Dichloroethene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| trans-1,2-Dichloroethene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,2-Dichloropropane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| cis-1,3-Dichloropropene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| trans-1,3-Dichloropropene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Ethylbenzene | UG/L | ND | ND | 10 | ND | 10 | ND | 400 | ND | 400 | ND | 10 | ND | 10 | ND | 10 | |
| 2-Hexanone | UG/L | ND | ND | 10 | ND | 10 | ND | 400 | ND | 400 | ND | 10 | ND | 10 | ND | 10 | |
| Isopropylbenzene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Methyl acetate | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Methylene chloride | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Methyl tert butyl ether | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 4-Methyl-2-pentanone | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Methylcyclohexane | UG/L | ND | ND | 10 | ND | 10 | ND | 400 | ND | 400 | ND | 10 | ND | 10 | ND | 10 | |
| Styrene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,1,2,2-Tetrachloroethane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Tetrachloroethane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| Toluene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,2,4-Trichlorobenzene | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,1,1-Trichloroethane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |
| 1,1,2-Trichloroethane | UG/L | ND | ND | 5.0 | ND | 5.0 | ND | 200 | ND | 200 | ND | 5.0 | ND | 5.0 | ND | 5.0 | |

000015

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---------------------------------------|--------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | | | | | | | | | | |
| Sample Date | | | | | | | | | | |
| Analyte | | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | UG/L | ND | 10 | ND | 5.0 | ND | 200 | ND | 5.0 |
| Trichloroethene | | UG/L | 23.0 | 10 | 2300 D | 5.0 | ND | 200 | 2680 E | 5.0 |
| Trichlorofluoromethane | | UG/L | ND | 10 | ND | 5.0 | ND | 200 | ND | 5.0 |
| Vinyl chloride | | UG/L | 3.3 DJ | 10 | ND | 5.0 | ND | 200 | 15 | 5.0 |
| Total Xylenes | | UG/L | ND | 30 | ND | 15 | ND | 600 | ND | 15 |
| n-Propylbenzene | | UG/L | ND | 10 | ND | 5.0 | ND | 200 | ND | 5.0 |
| p-Cymene | | UG/L | ND | 10 | ND | 5.0 | ND | 200 | ND | 5.0 |
| 1,2,4-Trimethylbenzene | | UG/L | ND | 10 | ND | 5.0 | ND | 200 | ND | 5.0 |
| 1,3,5-Trimethylbenzene | | UG/L | ND | 10 | ND | 5.0 | ND | 200 | ND | 5.0 |
| n-Butylbenzene | | UG/L | ND | 10 | ND | 5.0 | ND | 200 | ND | 5.0 |
| sec-Butylbenzene | | UG/L | ND | 10 | ND | 5.0 | ND | 200 | ND | 5.0 |
| IS/SURROGATE(S) | | | | | | | | | | |
| Chlorobenzene-D5 | | % | 98 | 50-200 | 105 | 50-200 | 93 | 50-200 | 106 | 50-200 |
| 1,4-Difluorobenzene | | % | 90 | 50-200 | 106 | 50-200 | 93 | 50-200 | 107 | 50-200 |
| 1,4-Dichlorobenzene-D4 | | % | 80 | 50-200 | 100 | 50-200 | 105 | 50-200 | 100 | 50-200 |
| Toluene-D8 | | % | 101 | 77-122 | 101 | 77-122 | 101 | 77-122 | 100 | 77-122 |
| p-Bromofluorobenzene | | % | 92 | 73-120 | 98 | 73-120 | 95 | 73-120 | 99 | 73-120 |
| 1,2-Dichloroethane-D4 | | % | 92 | 76-136 | 99 | 76-136 | 90 | 76-136 | 97 | 76-136 |

000016

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|-----------------------------|--------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | | | | | | | | | | |
| Sample Date | | | | | | | | | | |
| Acetone | | UG/L | ND | 1200 | ND | 25 | ND | 25 | ND | 25 |
| Benzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Bromodichloromethane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Bromoform | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Bromomethane | | UG/L | ND | 500 | ND | 10 | ND | 10 | ND | 10 |
| 2-Butanone | | UG/L | ND | 500 | ND | 10 | ND | 10 | ND | 10 |
| Carbon Disulfide | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Carbon Tetrachloride | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Chloromethane | | UG/L | ND | 500 | ND | 10 | ND | 10 | ND | 10 |
| Chlorobenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Chloroethane | | UG/L | ND | 500 | ND | 10 | ND | 10 | ND | 10 |
| Cyclohexane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Chloroform | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2-Dibromo-3-chloropropane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Dibromochloromethane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Dichlorodifluoromethane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2-Dibromoethane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2-Dichlorobenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,3-Dichlorobenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,4-Dichlorobenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1-Dichloroethane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1-Dichloroethene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1-Dichloroethane | | UG/L | 3000 D | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| cis-1,2-Dichloroethene | | UG/L | ND | 250 | 130 | 5.0 | ND | 5.0 | ND | 5.0 |
| trans-1,2-Dichloroethene | | UG/L | ND | 250 | 1.6 J | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2-Dichloropropane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| cis-1,3-Dichloropropane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| trans-1,3-Dichloropropane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Ethylbenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 2-Hexanone | | UG/L | ND | 500 | ND | 10 | ND | 10 | ND | 10 |
| Isopropylbenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Methyl acetate | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Methylene chloride | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Methyl tert butyl ether | | UG/L | 170, 80 J | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 4-Methyl-2-pentanone | | UG/L | ND | 500 | ND | 10 | ND | 10 | ND | 10 |
| Methylcyclohexane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Styrene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1,2,2-Tetrachloroethane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Tetrachloroethene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Toluene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2,4-Trichlorobenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1,1-Trichloroethane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,1,2-Trichloroethane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |

00001

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|--------------------------------|--------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | | | | | | | | | | |
| Sample Date | | | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluor | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Trichloroethene | | UG/L | 9600 D | 250 | 180 | 5.0 | ND | 5.0 | 3.20 | 5.0 |
| Trichlorofluoromethane | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| Vinyl chloride | | UG/L | ND | 250 | 3.6 J | 5.0 | ND | 5.0 | 4.2 J | 5.0 |
| Total Xylenes | | UG/L | ND | 750 | ND | 15 | ND | 15 | ND | 15 |
| n-Propylbenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| p-Cymene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,2,4-Trimethylbenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| 1,3,5-Trimethylbenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| n-Butylbenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| sec-Butylbenzene | | UG/L | ND | 250 | ND | 5.0 | ND | 5.0 | ND | 5.0 |
| IS/SURROGATE(S) | | | | | | | | | | |
| Chlorobenzene-D5 | | % | 87 | 50-200 | 99 | 50-200 | 93 | 50-200 | 88 | 50-200 |
| 1,4-Difluorobenzene | | % | 88 | 50-200 | 98 | 50-200 | 94 | 50-200 | 90 | 50-200 |
| 1,4-Dichlorobenzene-D4 | | % | 79 | 50-200 | 93 | 50-200 | 102 | 50-200 | 82 | 50-200 |
| Toluene-D8 | | % | 100 | 77-122 | 100 | 77-122 | 105 | 77-122 | 102 | 77-122 |
| p-Bromofluorobenzene | | % | 93 | 73-120 | 97 | 73-120 | 97 | 73-120 | 95 | 73-120 |
| 1,2-Dichloroethane-D4 | | % | 93 | 76-136 | 100 | 76-136 | 91 | 76-136 | 95 | 76-136 |

000018

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|-----------------------------|------------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| W090402EJ-0130L | A02-8763 | UG/L | 29 BCL | 100 | NA | | NA | |
| A28763010L | 09/04/2002 | UG/L | ND | 20 | NA | | NA | |
| Acetone | | UG/L | ND | 20 | NA | | NA | |
| Benzene | | UG/L | ND | 20 | NA | | NA | |
| Bromodichloromethane | | UG/L | ND | 20 | NA | | NA | |
| Bromoform | | UG/L | ND | 40 | NA | | NA | |
| Bromomethane | | UG/L | ND | 40 | NA | | NA | |
| 2-Butanone | | UG/L | ND | 20 | NA | | NA | |
| Carbon Disulfide | | UG/L | ND | 20 | NA | | NA | |
| Carbon Tetrachloride | | UG/L | ND | 40 | NA | | NA | |
| Chloromethane | | UG/L | ND | 20 | NA | | NA | |
| Chlorobenzene | | UG/L | ND | 40 | NA | | NA | |
| Chloroethane | | UG/L | ND | 20 | NA | | NA | |
| Cyclohexane | | UG/L | ND | 20 | NA | | NA | |
| Chloroform | | UG/L | ND | 20 | NA | | NA | |
| 1,2-Dibromo-3-chloropropane | | UG/L | ND | 20 | NA | | NA | |
| Dibromochloromethane | | UG/L | ND | 20 | NA | | NA | |
| Dichlorodifluoromethane | | UG/L | ND | 20 | NA | | NA | |
| 1,2-Dibromoethane | | UG/L | ND | 20 | NA | | NA | |
| 1,2-Dichlorobenzene | | UG/L | ND | 20 | NA | | NA | |
| 1,3-Dichlorobenzene | | UG/L | ND | 20 | NA | | NA | |
| 1,4-Dichlorobenzene | | UG/L | ND | 20 | NA | | NA | |
| 1,1-Dichloroethane | | UG/L | ND | 20 | NA | | NA | |
| 1,2-Dichloroethane | | UG/L | ND | 20 | NA | | NA | |
| 1,1-Dichloroethene | | UG/L | ND | 20 | NA | | NA | |
| cis-2-Dichloroethene | | UG/L | 300 C | 20 | NA | | NA | |
| trans-1,2-Dichloroethene | | UG/L | ND | 20 | NA | | NA | |
| 1,2-Dichloropropane | | UG/L | ND | 20 | NA | | NA | |
| cis-1,3-Dichloropropene | | UG/L | ND | 20 | NA | | NA | |
| trans-1,3-Dichloropropene | | UG/L | ND | 20 | NA | | NA | |
| Ethylbenzene | | UG/L | ND | 20 | NA | | NA | |
| 2-Hexanone | | UG/L | ND | 40 | NA | | NA | |
| Isopropylbenzene | | UG/L | ND | 20 | NA | | NA | |
| Methyl acetate | | UG/L | ND | 20 | NA | | NA | |
| Methylene chloride | | UG/L | 16 BCL | 20 | NA | | NA | |
| Methyl tert butyl ether | | UG/L | ND | 20 | NA | | NA | |
| 4-Methyl-2-pentanone | | UG/L | ND | 40 | NA | | NA | |
| Methylcyclohexane | | UG/L | ND | 20 | NA | | NA | |
| Styrene | | UG/L | ND | 20 | NA | | NA | |
| 1,1,2,2-Tetrachloroethane | | UG/L | ND | 20 | NA | | NA | |
| Tetrachloroethane | | UG/L | ND | 20 | NA | | NA | |
| Toluene | | UG/L | ND | 20 | NA | | NA | |
| 1,2,4-Trichlorobenzene | | UG/L | ND | 20 | NA | | NA | |
| 1,1,1-Trichloroethane | | UG/L | ND | 20 | NA | | NA | |
| 1,1,2-Trichloroethane | | UG/L | ND | 20 | NA | | NA | |

000009

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|---|------------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| W090402EJ-0100L A02-0763 09/04/2002 | A29763010L | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | UG/L | ND | 20 | NA | NA | NA | NA | NA |
| Trichloroethene | UG/L | 320 D | 20 | NA | NA | NA | NA | NA |
| Trichlorofluoromethane | UG/L | ND | 20 | NA | NA | NA | NA | NA |
| Vinyl chloride | UG/L | ND | 20 | NA | NA | NA | NA | NA |
| Total Xylenes | UG/L | ND | 60 | NA | NA | NA | NA | NA |
| n-Propylbenzene | UG/L | ND | 20 | NA | NA | NA | NA | NA |
| p-Cymene | UG/L | ND | 20 | NA | NA | NA | NA | NA |
| 1,2,4-Trimethylbenzene | UG/L | ND | 20 | NA | NA | NA | NA | NA |
| 1,3,5-Trimethylbenzene | UG/L | ND | 20 | NA | NA | NA | NA | NA |
| m-Butylbenzene | UG/L | ND | 20 | NA | NA | NA | NA | NA |
| sec-Butylbenzene | UG/L | ND | 20 | NA | NA | NA | NA | NA |
| IS/SURROGATE(S) | | | | | | | | |
| Chlorobenzene-D5 | % | 86 | 50-200 | NA | NA | NA | NA | NA |
| 1,4-Difluorobenzene | % | 86 | 50-200 | NA | NA | NA | NA | NA |
| 1,4-Dichlorobenzene-D4 | % | 96 | 50-200 | NA | NA | NA | NA | NA |
| Toluene-D8 | % | 103 | 77-122 | NA | NA | NA | NA | NA |
| p-Bromofluorobenzene | % | 95 | 73-120 | NA | NA | NA | NA | NA |
| 1,2-Dichloroethane-D4 | % | 91 | 76-136 | NA | NA | NA | NA | NA |

000020

| Client ID Job No Sample Date | Lab ID | Units | Sample Value | Reporting Limit | W082902EJ-06 A02-8654 08/29/2002 | A2866418 | Sample Value | Reporting Limit | W082902EJ-12 A02-8664 08/29/2002 | A2866403 | Sample Value | Reporting Limit | W082902EJ-FB A02-8664 08/29/2002 | A2866404 | Sample Value | Reporting Limit | W090402EJ-D1D A02-8763 09/04/2002 | A2876301 |
|------------------------------------|--------|-------|--------------|-----------------|--|----------|--------------|-----------------|--|----------|--------------|-----------------|--|----------|--------------|-----------------|---|----------|
| Analyte | | | | | | | | | | | | | | | | | | |
| Hexachloroethane | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| Indeno(1,2,3-cd)pyrene | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| Isophorane | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| 2-Methylnaphthalene | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| 2-Methylphenol | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| 4-Methylphenol | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| Naphthalene | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| 2-Nitroaniline | | UG/L | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 47 |
| 3-Nitroaniline | | UG/L | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 47 |
| 4-Nitroaniline | | UG/L | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 47 |
| Nitrobenzene | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| 2-Nitrophenol | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| 4-Nitrophenol | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| N-nitrosodiphenylamine | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| N-Nitroso-Di-n-propylamine | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| Pentachloropental | | UG/L | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 48 | ND | 47 |
| Phenanthrene | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| Phenol | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| Pyrene | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| 1,2,4-Trichlorobenzene | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| 2,4,5-Trichlorophenol | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| 2,4,6-Trichlorophenol | | UG/L | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 10 | ND | 9 |
| [5/SURROGATE(S)] | | | | | | | | | | | | | | | | | | |
| 1,4-Dichlorobenzene-D4 | % | | 110 | 50-200 | 112 | 50-200 | 116 | 50-200 | 116 | 50-200 | 116 | 50-200 | 116 | 50-200 | 86 | 50-200 | 50-200 | 50-200 |
| Naphthalene-D8 | % | | 114 | 50-200 | 114 | 50-200 | 120 | 50-200 | 120 | 50-200 | 120 | 50-200 | 120 | 50-200 | 81 | 50-200 | 50-200 | 50-200 |
| Acenaphthene-D10 | % | | 116 | 50-200 | 116 | 50-200 | 123 | 50-200 | 123 | 50-200 | 123 | 50-200 | 123 | 50-200 | 79 | 50-200 | 50-200 | 50-200 |
| Phenanthrene-D10 | % | | 121 | 50-200 | 121 | 50-200 | 123 | 50-200 | 123 | 50-200 | 123 | 50-200 | 123 | 50-200 | 88 | 50-200 | 50-200 | 50-200 |
| Chrysene-D12 | % | | 119 | 50-200 | 122 | 50-200 | 122 | 50-200 | 122 | 50-200 | 122 | 50-200 | 122 | 50-200 | 78 | 50-200 | 50-200 | 50-200 |
| Perylene-D12 | % | | 114 | 50-200 | 121 | 50-200 | 84 | 24-125 | 84 | 24-125 | 84 | 24-125 | 84 | 24-125 | 90 | 24-125 | 24-125 | 24-125 |
| Nitrobenzene-D5 | % | | 77 | 24-125 | 84 | 24-125 | 84 | 24-125 | 84 | 24-125 | 84 | 24-125 | 84 | 24-125 | 100 | 24-125 | 25-125 | 25-125 |
| 2-Fluorobiphenyl | % | | 81 | 25-125 | 84 | 25-125 | 92 | 25-125 | 92 | 25-125 | 92 | 25-125 | 92 | 25-125 | 100 | 25-125 | 25-125 | 25-125 |
| p-Terphenyl-D14 | % | | 36 | 19-152 | 30 | 19-152 | 98 | 19-152 | 98 | 19-152 | 98 | 19-152 | 98 | 19-152 | 80 | 19-152 | 19-152 | 19-152 |
| Phenol-D5 | % | | 29 | 10-110 | 32 | 10-110 | 32 | 10-110 | 32 | 10-110 | 32 | 10-110 | 32 | 10-110 | 33 | 10-110 | 10-110 | 10-110 |
| 2-Fluorophenol | % | | 42 | 20-120 | 46 | 20-120 | 46 | 20-120 | 46 | 20-120 | 46 | 20-120 | 46 | 20-120 | 44 | 20-120 | 20-120 | 20-120 |
| 2,4,6-Tribromophenol | % | | 77 | 28-152 | 78 | 28-152 | 84 | 28-152 | 84 | 28-152 | 84 | 28-152 | 84 | 28-152 | 118 | 28-152 | 28-152 | 28-152 |

000022

| Client ID Job No Sample Date | Lab ID | W082902EJ-06 A02-8664 08/29/2002 | A2866418 | W082902EJ-12 A02-8664 08/29/2002 | A2866403 | W082902EJ-F8 A02-8664 08/29/2002 | A2866404 | W090402EJ-01D A02-8763 09/04/2002 | A2876301 |
|------------------------------------|--------|--|-----------------|--|-----------------|--|-----------------|---|-----------------|
| Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
| Aldrin | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| alpha-BHC | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| beta-BHC | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| gamma-BHC (Lindane) | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| delta-BHC | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| Chlordane | UG/L | ND | 0.50 | ND | 0.49 | ND | 0.47 | ND | 0.48 |
| 4,4'-DDE | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| 4,4'-DDE | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| 4,4'-DDT | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| Dieldrin | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| Endosulfan I | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| Endosulfan II | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| Endosulfan sulfate | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| Endrin | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| Endrin aldehyde | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| Heptachlor | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| Heptachlor epoxide | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| Methoxychlor | UG/L | ND | 0.050 | ND | 0.049 | ND | 0.047 | ND | 0.048 |
| Toxaphene | UG/L | ND | 0.99 | ND | 0.98 | ND | 0.94 | ND | 0.95 |
| -----SURROGATE(S)----- | | | | | | | | | |
| Tetrachloro-m-xylene | % | 31 * | 36-132 | 46 | 36-132 | 74 | 36-132 | 58 | 36-132 |
| Decachlorobiphenyl | % | 6.0 * | 28-132 | 4.0 * | 28-132 | 114 | 28-132 | 20 * | 28-132 |

000023

| Client ID | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|----------------------|--------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Job No | | | | | | | | | | |
| Sample Date | | | | | | | | | | |
| Analyte | | | | | | | | | | |
| Aroclor 1016 | | UG/L | ND | 0.52 | ND | 0.52 | ND | 0.52 | ND | 0.48 |
| Aroclor 1221 | | UG/L | ND | 0.52 | ND | 0.52 | ND | 0.52 | ND | 0.48 |
| Aroclor 1232 | | UG/L | ND | 0.52 | ND | 0.52 | ND | 0.52 | ND | 0.48 |
| Aroclor 1242 | | UG/L | ND | 0.52 | ND | 0.52 | ND | 0.52 | ND | 0.48 |
| Aroclor 1248 | | UG/L | ND | 0.52 | ND | 0.52 | ND | 0.52 | ND | 0.48 |
| Aroclor 1254 | | UG/L | ND | 0.52 | ND | 0.52 | ND | 0.52 | ND | 0.48 |
| Aroclor 1260 | | UG/L | ND | 0.52 | ND | 0.52 | ND | 0.52 | ND | 0.48 |
| SURROGATE(S) | | | | | | | | | | |
| Tetrachloro-m-xylene | | % | 43 | 36-132 | 52 | 36-132 | 84 | 36-132 | 47 | 36-132 |
| Decachlorobiphenyl | | % | 22 | 28-132 | 20 | 28-132 | 88 | 28-132 | 30 | 28-132 |

00094

Date: 09/23/2002
Time: 15:52:18

Bergmann Assoc. - Gowanda Day Habilitation Center
SW6463 DELIVERABLES
BERG - U - SW6463 B151 - HERBICIDES (3 CMPS)

Rept: AN0326

| Client ID | Lab ID | W082902EJ-06 A02-8664 08/29/2002 | A2866418 | W082902EJ-12 A02-8664 08/29/2002 | A2866403 | W082902EJ-FB A02-8664 08/29/2002 | A2866404 | W090402EJ-01D A02-8763 09/04/2002 | A2876301 |
|----------------------------|--------|--|-----------------|--|-----------------|--|-----------------|---|-----------------|
| Analyte | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
| 2,4-D | UG/L | ND | 0.48 | ND | 0.48 | ND | 0.48 | ND | 0.49 |
| 2,4,5-TP (Silvex) | UG/L | ND | 0.48 | ND | 0.48 | ND | 0.48 | ND | 0.49 |
| 2,4,5-T | UG/L | ND | 0.48 | ND | 0.48 | ND | 0.48 | ND | 0.49 |
| Dichlorophenyl Acetic Acid | % | 106 | 17-133 | 119 | 17-133 | 114 | 17-133 | 120 | 17-133 |

006025

| Client ID Job No Sample Date | Lab ID | Units | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit | Sample Value | Reporting Limit |
|------------------------------------|--------|-------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Aluminum - Total | | Mg/L | 3.8 | 0.20 | ND | 0.20 | ND | 0.20 | 0.32 | 0.20 |
| Antimony - Total | | Mg/L | ND | 0.020 | ND | 0.020 | ND | 0.020 | ND | 0.020 |
| Arsenic - Total | | Mg/L | ND | 0.0070 | ND | 0.0070 | ND | 0.0070 | ND | 0.0070 |
| Barium - Total | | Mg/L | 0.58 | 0.0010 | 0.40 | 0.0010 | 0.011 | 0.0010 | 0.32 | 0.0010 |
| Beryllium - Total | | Mg/L | ND | 0.0050 | ND | 0.0050 | ND | 0.0050 | ND | 0.0050 |
| Calcium - Total | | Mg/L | 98.2 | 0.0010 | 74.6 | 0.50 | ND | 0.50 | 79.4 | 0.0010 |
| Cadmium - Total | | Mg/L | 0.0057 | 0.0020 | ND | 0.0020 | ND | 0.0020 | ND | 0.0020 |
| Chromium - Total | | Mg/L | ND | 0.0050 | ND | 0.0050 | ND | 0.0050 | ND | 0.0050 |
| Cobalt - Total | | Mg/L | 0.0093 | 0.0050 | ND | 0.0050 | ND | 0.0050 | ND | 0.0050 |
| Copper - Total | | Mg/L | 8.6 | 0.050 | 7.4 | 0.050 | ND | 0.050 | 8.0 | 0.050 |
| Iron - Total | | Mg/L | ND | 0.010 | ND | 0.010 | ND | 0.010 | ND | 0.010 |
| Lead - Total | | Mg/L | 15.9 | 0.20 | 14.5 | 0.20 | ND | 0.20 | 16.5 | 0.20 |
| Magnesium - Total | | Mg/L | 0.67 | 0.0030 | 0.66 | 0.0030 | ND | 0.0030 | 0.71 | 0.0030 |
| Manganese - Total | | Mg/L | ND | 0.00020 | ND | 0.00020 | ND | 0.00020 | ND | 0.00020 |
| Mercury - Total | | Mg/L | ND | 0.010 | ND | 0.010 | ND | 0.010 | ND | 0.010 |
| Nickel - Total | | Mg/L | 3.0 | 0.50 | 1.1 | 0.50 | ND | 0.50 | 2.6 | 0.50 |
| Potassium - Total | | Mg/L | ND | 0.010 | ND | 0.010 | ND | 0.010 | ND | 0.010 |
| Selenium - Total | | Mg/L | ND | 0.0030 | ND | 0.0030 | ND | 0.0030 | ND | 0.0030 |
| Silver - Total | | Mg/L | 40.8 | 1.0 | 35.3 | 1.0 | ND | 1.0 | 26.1 | 1.0 |
| Sodium - Total | | Mg/L | ND | 0.020 | ND | 0.020 | ND | 0.020 | ND | 0.020 |
| Thallium - Total | | Mg/L | 0.0061 | 0.0050 | ND | 0.0050 | ND | 0.0050 | ND | 0.0050 |
| Vanadium - Total | | Mg/L | 0.031 | 0.020 | ND | 0.020 | ND | 0.020 | ND | 0.020 |
| Zinc - Total | | Mg/L | ND | 0.020 | ND | 0.020 | ND | 0.020 | ND | 0.020 |

000026

| Client ID | Lab ID | Job No | Sample Date | W082902EJ-06 | A02-8664 | 08/29/2002 | A2866418 | W082902EJ-12 | A02-8664 | 08/29/2002 | A2866403 | W082902EJ-FB | A02-8664 | 08/29/2002 | A2866404 | W090402EJ-01D | A02-8763 | 09/04/2002 | A2876301 |
|-----------------|--------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|---------------|-----------------|--------------|-----------------|
| Analyte | Units | Sample value | Reporting Limit | Sample value | Reporting Limit | Sample value | Reporting Limit | Sample value | Reporting Limit | Sample value | Reporting Limit | Sample value | Reporting Limit | Sample value | Reporting Limit | Sample value | Reporting Limit | Sample value | Reporting Limit |
| Cyanide - Total | MG/L | ND | 0.010 | ND | 0.010 | ND | 0.010 | ND | 0.010 | ND | 0.010 | ND | 0.010 | ND | 0.010 | ND | 0.010 | ND | 0.010 |

000027



STL Buffalo
10 Hazelwood Drive
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www.sthinc.com

ANALYTICAL REPORT

Job#: A02 8673, A02-8761

STL Project#: NY2A8896

SDG#: 083002

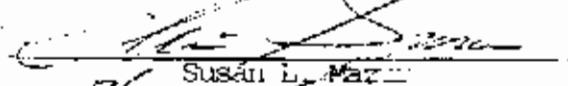
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

Task: ASP00 LEVEL IV DELIVERABLES

AS^o GROUNDWATER SAMPLES

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

STL Buffalo

Brian J. Fischer
Project Manager

Susan L. Mazur
Laboratory Director

09/23/2002

This report contains 133 pages which are individually numbered.

January 14, 2003

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

RE: REVISION for SDG 083002

Dear Mr. Jones:

Please find enclosed the revised pages concerning Pesticide, PCB, and Herbicide data for the samples submitted by your firm. The revised pages have been numbered for replacement and insertion into the original report. The pertinent information regarding these analyses is listed below:

Project : Gowanda Day Habilitation Center
SDG : 083002
Task : ASP00 Level IV Deliverables

If you have any questions concerning these data, please contact the Program Manager at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide Bergmann Associates with environmental testing services. We look forward to serving you in the future.

Sincerely,

STL Buffalo



Brian J. Fischer
Program Manager

BJF/stc
Enclosure
cc: J. Harry - Data Validation Services

I.D. #083002
#NY2A8896

000001

SAMPLE DATA SUMMARY PACKAGE

SAMPLE SUMMARY

| <u>LAB SAMPLE ID</u> | <u>CLIENT SAMPLE ID</u> | <u>SAMPLED</u> | | <u>RECEIVED</u> | |
|----------------------|-------------------------|----------------|-------------|-----------------|-------------|
| | | <u>DATE</u> | <u>TIME</u> | <u>DATE</u> | <u>TIME</u> |
| A2867303 | W082902EJ-07 | 08/29/2002 | 13:20 | 08/30/2002 | 09:40 |
| A2867302 | W082902EJ-15 | 08/29/2002 | 11:40 | 08/30/2002 | 09:40 |
| A2876101 | W090402EJ-01 | 09/04/2002 | 11:00 | 09/05/2002 | 11:00 |
| A2876101MS | W090402EJ-01 | 09/04/2002 | 11:00 | 09/05/2002 | 11:00 |
| A2876101SD | W090402EJ-01 | 09/04/2002 | 11:00 | 09/05/2002 | 11:00 |

METHODS SUMMARY

Job#: A02-8673,A02-8761STL Project#: NY2A8896SDG#: 083002Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

| PARAMETER | ANALYTICAL METHOD |
|--|----------------------|
| BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS | ASP00 8260/5ML |
| BERG - W - ASP 2000 - METHOD 8270 SEMIVOLATILES | ASP00 8270 |
| BERG - W - ASP00 - 8081 PESTICIDES | ASP00 8081 |
| BERG - W - ASP00 - 8151 - HERBICIDES (3 COMPS) | ASP00 8151 |
| BERG - W - ASP00 8082 - POLYCHLORINATED BIPHENYLS | ASP00 8082 |
| Aluminum - Total | ASP00 6010 |
| Antimony - Total | ASP00 6010 |
| Arsenic - Total | ASP00 6010 |
| Barium - Total | ASP00 6010 |
| Beryllium - Total | ASP00 6010 |
| Cadmium - Total | ASP00 6010 |
| Calcium - Total | ASP00 6010 |
| Chromium - Total | ASP00 6010 |
| Cobalt - Total | ASP00 6010 |
| Copper - Total | ASP00 6010 |
| Iron - Total | ASP00 6010 |
| Lead - Total | ASP00 6010 |
| Magnesium - Total | ASP00 6010 |
| Manganese - Total | ASP00 6010 |
| Mercury - Total | ASP00 7470 |
| Nickel - Total | ASP00 6010 |
| Potassium - Total | ASP00 6010 |
| Selenium - Total | ASP00 6010 |
| Silver - Total | ASP00 6010 |
| Sodium - Total | ASP00 6010 |
| Thallium - Total | ASP00 6010 |
| Vanadium - Total | ASP00 6010 |
| Zinc - Total | ASP00 6010 |
| Cyanide - Total | ASP00 9012 |

References:

ASP00 "Analytical Services Protocol", New York State Department of Conservation,
June 2000.

NON-CONFORMANCE SUMMARY

Job#: A02-8673, A02-8761STL Project#: NY2A8896SDG#: 083002Site Name: Bergmann Assoc. - Gowanda Day Habilitation CenterGeneral Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A02-8673

Sample Cooler(s) were received at the following temperature(s); 3@6 °C
All samples were received in good condition.

A02-8761

Sample Cooler(s) were received at the following temperature(s); 10 °C
Sample(s) were received at a temperature of >10°C. However, ice was present in the cooler and as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt.

STL Buffalo internal validation forms are reported and included in this report as Appendix A.

GC/MS Volatile Data

The analytes Toluene, Methylene Chloride, and Acetone were detected in the Method Blank VBLK09 and the Volatile Holding Blank (VHB) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Samples W082902EJ-07 and W082902EJ-15 both exhibited a PH 7. All other samples were preserved to a PH less than 2.

The analyte Methylene Chloride was detected in the Method Blanks VBLK11 and VBLK12 and the Volatile Holding Blank (VHB) at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The spike recovery of Trichloroethene in the MS and MSD of sample W090402EJ-01 exceeded QC limits. The recovery of Trichloroethene was effected by its elevated concentration in sample W090402EJ-01 relative to the amount spiked. The associated MSB exhibited compliant recoveries for all spiking compounds.

The relative percent difference between the Matrix Spike and the Matrix Spike duplicate of sample W090402EJ-01 exceeded quality control limits for Toluene and Trichloroethene.

The spike recovery of Trichloroethene in W090402EJ-01 MSDL was above quality control limits. The recovery of Trichloroethene was effected by its elevated concentration in sample W090402EJ-01 DL relative to the amount spiked. The associated MSB exhibited compliant recoveries for all spiking compounds.

Continuing calibration standard curves A2C0004441-1 and A2C0004442-1 both exhibited the %D of 1,1-Dichloroethene as above quality control limits. ASP00 protocol allows for the %D of up to two analytes per standard to exceed quality control limits. As a result no corrective action was required.

GC/MS Semivolatile Data

The analyte Bis(2-ethylhexyl) phthalate was detected in the Method Blank A2B0862603 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Spiking compounds 4-Nitrophenol in the Matrix Spike Blank A2B0862601 and 4-Nitrophenol, 2,4-Dinitrotoluene and Pentachlorophenol the Matrix Spike Blank Duplicate A2B0862602 were above the method defined quality control limits. Since the results were biased high and the analytes were not detected in the samples, no corrective action was performed.

Spiking compound 4-Nitrophenol was above the method defined quality control limits in the Matrix Spike W090402EJ-01 MS. Since the results were biased high and the analytes were not detected in the samples, no corrective action was performed.

GC Extractable Data

For Method 8081 (Pesticides) the percent difference for 4,4'-DDT in the continuing calibration verification analyzed after the samples was slightly greater than 15% from the expected amount (19.6%). The average of all analytes was within 15% and the associated laboratory quality control recoveries were compliant. No corrective action was indicated.

The recovery of surrogate Decachlorobiphenyl for the Method 8081 (Pesticide) analysis of sample W090402EJ-01, W090402EJ-01 MS and W090402EJ-01 MSD was outside of established quality control limits, indicating a matrix effect. The recovery of surrogate Tetrachloro-m-xylene was within quality control limits; no corrective action was required.

For Method 8081 (Pesticide) analysis the percent recovery of a few compounds in the matrix spike and matrix spike duplicate of sample W090402EJ-01 exceeded established quality control limits. The recovery of all compounds in the associated matrix spike blank and matrix spike blank duplicate were compliant with quality control limits, indicating sample matrix effects.

The recovery of surrogate Decachlorobiphenyl for the Method 8082 (PCB) analysis of sample W090402EJ-01 and W090402EJ-01 MSD was outside of established quality control limits, indicating a matrix effect. The recovery of surrogate Tetrachloro-m-xylene was within quality control limits; no corrective action was required.

For Method 8082 (PCB) analysis the percent recovery of Aroclor 1260 in the matrix spike and matrix spike duplicate of sample W090402EJ-01 exceeded established quality control limits. The recovery of the compounds in the associated matrix spike blank and matrix spike blank duplicate was compliant with quality control limits, indicating sample matrix effects.

Metals Data


No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic deliverable has been authorized by the Laboratory Director or her designee, as verified by the following signature."


Susan L. Mazur
Laboratory Director

9/24/02
Date

RESUBMISSION COMMUNICATIONS

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| CUSTOMER SAMPLE ID | LABORATORY SAMPLE ID | ANALYTICAL REQUIREMENTS | | | | | |
|-----------------------|-------------------------|-------------------------|--------------|-----------|-------------|--------|------------------|
| | | VOA GC/MS | BNA GC/MS | VOA GC | PEST PCB | METALS | WATER QUALITY |
| W082902EJ-07 | A2867303 | ASP00 | - | - | - | - | - |
| W082902FJ-15 | A2867302 | ASP00 | - | - | - | - | - |
| W090402EJ-01 | A2876101 | ASP00 | ASP00 | - | ASP00 | ASP00 | ASP00 |

NYSDEC-1

000008

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|-----------------------|--------|----------------|----------------------|----------------|---------------|
| W082902EJ-07 | WATER | 08/29/2002 | 08/30/2002 | | 09/04/2002 |
| W082902EJ-15 | WATER | 08/29/2002 | 08/30/2002 | - | 09/04/2002 |
| W090402EJ-01 | WATER | 09/04/2002 | 09/05/2002 | - | 09/06/2002 |

NYSDEC-2

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY
BIN-A ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|-----------------------|--------|----------------|----------------------|----------------|---------------|
| W090402EJ-01 | WATER | 09/04/2002 | 09/05/2002 | 09/09/2002 | 09/11/2002 |

NYSDEC-3

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| SAMPLE IDENTIFICATION | MATRIX | DATE COLLECTED | DATE RECEIVED AT LAB | DATE EXTRACTED | DATE ANALYZED |
|-----------------------|--------|----------------|----------------------|----------------|---------------|
| W090402EJ-01 | WATER | 09/04/2002 | 09/05/2002 | 09/06/2002 | 09/06 |

NYSDEC-4

000011

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYTICAL SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| SAMPLE IDENTIFICATION | MATRIX | METALS REQUESTED | DATE RECEIVED AT LAB | DATE DIGESTED | DATE ANALYZED |
|-----------------------|--------|------------------|----------------------|---------------|---------------|
| W090402EJ-01 | WATER | ASP TME | 09/05/2002 | 09/05-06/2002 | 09/06-07/2002 |

NYSDEC-5

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| SAMPLE IDENTIFICATION | MATRIX | ANALYTICAL PROTOCOL | EXTRACTION METHOD | AUXILIARY CLEAN UP | DIL/CONC FACTOR |
|-----------------------|--------|---------------------|-------------------|--------------------|-----------------|
| W082902EJ-07 | WATER | ASPOO | - | AS REQUIRED | AS REQUIRED |
| W082902EJ-15 | WATER | ASPOO | - | AS REQUIRED | AS REQUIRED |
| W090402EJ-01 | WATER | ASPOO | SEPF | AS REQUIRED | AS REQUIRED |

NYSDEC-6

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATIONSAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

LAB NAME: SEVERN TRENT LABORATORIES, INC.

| LABORATORY SAMPLE CODE | MATRIX | ANALYTICAL PROTOCOL | DIGESTION PROCEDURE | MATRIX MODIFIER | DIL/CONC FACTOR |
|---------------------------|--------|------------------------|------------------------|--------------------|--------------------|
| W082902EJ-01 | WATER | ASP00 | ASP00 | AS REQUIRED | AS REQUIRED |
| W090402EJ-01 | WATER | ASP00 | ASP00 | AS REQUIRED | AS REQUIRED |

NYSDEC-7

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Parameter (Inorganic)/Method (Organic)</u> | <u>Dilution</u> | <u>Code</u> |
|-------------------------|----------------------|---|-----------------|-------------|
| W082902EJ-15 | A2867302 | 8260/5ML | 2.00 | 008 |
| W082902EJ-15 DL | A2867302DL | 8260/5ML | 4.00 | 008 |
| W082902EJ-07 DL | A2867303DL | 8260/5ML | 5.00 | 008 |
| W090402EJ-01 MSDL | A2876101A | 8260/5ML | 4.00 | 008 |
| W090402EJ-01 SDDL | A2876101B | 8260/5ML | 4.00 | 008 |
| W090402EJ-01 DL | A2876101DL | 8260/5ML | 4.00 | 008 |

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - non-target compounds (TICS) exceeded 5x the total response of one of the Internal Standards
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit or greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol condensation product.
- ! Indicates coelution.
- * indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- K Indicates the post digestion spike recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- M Indicates duplicate injection results exceeded quality control limits.
- W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) with sample absorbance is less than 50% of spike absorbance.
- L Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- * indicates analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
 ANALYSIS DATA SHEET

000016

Client No. _____

W082902EJ-07

Lab Name: STL Buffalo

Contract: _____

Lab Code: RCONY

Case No.: _____

SAS No.: _____

SDG No.: 083002

Matrix: (soil/water) WATER

Lab Sample ID: A2867303

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: F5310.RR

Level: (low/med) LOW

Date Samp/Recv: 08/29/2002 08/30/2002

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | <u>UG/L</u> | Q |
|------------|-----------------------------|-----------------|-------------|-----|
| 67-64-1 | Acetone | 25 | | U |
| 71-43-2 | Benzene | 5 | | U |
| 75-27-4 | Bromodichloromethane | 5 | | U |
| 75-25-2 | Bromoform | 5 | | U |
| 74-83-9 | Bromomethane | 5 | | U |
| 78-93-3 | 2-Butanone | 25 | | U J |
| 75-15-0 | Carbon Disulfide | 5 | | U |
| 56-23-5 | Carbon Tetrachloride | 5 | | U |
| 74-87-3 | Chloromethane | 5 | | U |
| 108-90-7 | Chlorobenzene | 5 | | U |
| 75-00-3 | Chloroethane | 5 | | U |
| 110-82-7 | Cyclohexane | 10 | | U |
| 67-66-3 | Chloroform | 5 | | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5 | | U J |
| 124-48-1 | Dibromochloromethane | 5 | | U |
| 75-71-8 | Dichlorodifluoromethane | 5 | | U |
| 106-93-4 | 1,2-Dibromoethane | 5 | | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5 | | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5 | | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5 | | U |
| 75-34-3 | 1,1-Dichloroethane | 5 | | U |
| 107-06-2 | 1,2-Dichloroethane | 5 | | U |
| 75-35-4 | 1,1-Dichloroethene | 5 | | U |
| 156-59-2 | cis-1,2-Dichloroethene | 420 470 | | U |
| 156-60-5 | trans-1,2-Dichloroethene | 5 | | U |
| 78-87-5 | 1,2-Dichloropropane | 5 | | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | | U |
| 100-41-4 | Ethylbenzene | 5 | | U |
| 591-78-6 | 2-Hexanone | 25 | | U J |
| 98-82-8 | Isopropylbenzene | 5 | | U |
| 79-20-9 | Methyl acetate | 10 | | U |
| 75-09-2 | Methylene chloride | 5 | | U |
| 1634-04-4 | Methyl tert. butyl ether | 10 | | U |

Edit all
"5u"
to
"10L"

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - COWANDA DAY HABILITATION CENTER
 BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
 ANALYSIS DATA SHEET

000017

Client No.

W082902EJ-07

Lab Name: SIL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2867303

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5310.RR

Level: (low/med) LOW Date Samp/Recv: 08/29/2002 08/30/2002

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|-----------|---------------------------------------|-----------------|------|----|
| 108-10-1 | 4-Methyl-2-pentanone | 25 | | UJ |
| 108-87-2 | Methylcyclohexane | 10 | | U |
| 100-42-5 | Styrene | 5 | | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | | U |
| 127-18-4 | Tetrachloroethene | 5 | | U |
| 108-88-3 | Toluene | 5 | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5 | | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | | U |
| 79-01-6 | Trichloroethene | 26 | | U |
| 75-69-4 | Trichlorofluoromethane | 5 | | U |
| 75-01-4 | Vinyl chloride | 4 | | J |
| 1330-20-7 | Total Xylenes | 5 | | U |
| 103-65-1 | n-Propylbenzene | 5 | | U |
| 99-87-6 | p-Cymene | 5 | | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 5 | | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 5 | | U |
| 104-51-8 | n-Butylbenzene | 5 | | U |
| 135-98-8 | sec-Butylbenzene | 5 | | U |

all
"5u"
to
"10 u"

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
 TENTATIVELY IDENTIFIED COMPOUNDS

000018

Client No.

W082902EJ-07

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2867303

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: FS310.RR

Level: (low/med) LOW Date Samp/Recv: 08/29/2002 08/30/2002

% Moisture: not dec. _____ Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

Number TICs found: 2 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

| GC NO. | Compound Name | RT | Est. Conc. | Q |
|--------|---|------|------------|---------------|
| 1. | UNKNOWN | 1.43 | 17 | BJ |
| 2. | UNKNOWN IMBROCARBON | 2.23 | 2 | BJ |

BERGMANN ASSOCIATES, INC.
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 BERG - W - EPA ASPRO-METHOD 8260 VOLATILES + STARS
 ANALYSIS DATA SHEET

000019

Client No.

W082902EJ-07 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2867303DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5314.RR

Level: (low/med) LOW Date Samp/Recv: 08/29/2002 08/30/2002

Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.00

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|------------|-----------------------------|-----------------|------|-----|
| 67-64-1 | Acetone | | 120 | U |
| 71-43-2 | Benzene | | 25 | U |
| 75-27-4 | Bromodichloromethane | | 25 | U |
| 75-25-2 | Bromoform | | 25 | U |
| 74-83-9 | Bromomethane | | 25 | U |
| 78-93-3 | 2-Butanone | | 120 | U |
| 75-15-0 | Carbon Disulfide | | 25 | U |
| 56-23-5 | Carbon Tetrachloride | | 25 | U |
| 74-87-3 | Chloromethane | | 25 | U |
| 108-90-7 | Chlorobenzene | | 25 | U |
| 75-00-3 | Chloroethane | | 25 | U |
| 110-82-7 | Cyclohexane | | 50 | U |
| 67-66-3 | Chloroform | | 25 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 25 | U |
| 124-48-1 | Dibromochloromethane | | 25 | U |
| 75-71-8 | Dichlorodifluoromethane | | 25 | U |
| 106-93-4 | 1,2-Dibromoethane | | 25 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 25 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 25 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 25 | U |
| 75-34-3 | 1,1-Dichloroethane | | 25 | U |
| 107-06-2 | 1,2-Dichloroethane | | 25 | U |
| 75-35-4 | 1,1-Dichloroethene | | 25 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 420 | D |
| 156-60-5 | trans-1,2-Dichloroethene | | 25 | U |
| 78-87-5 | 1,2-Dichloropropane | | 25 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 25 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 25 | U |
| 100-41-4 | Ethylbenzene | | 25 | U |
| 591-78-6 | 2-Hexanone | | 120 | U |
| 98-82-8 | Isopropylbenzene | | 25 | U |
| 79-20-9 | Methyl acetate | | 50 | U |
| 75-09-2 | Methylene chloride | | 22 | EDU |
| 1634-04-4 | Methyl tert butyl ether | | 50 | U |

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
 ANALYSIS DATA SHEET

000020

Client No. _____

W082902EJ-07 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2867303DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5314.RR

Level: (low/med) LOW Date Samp/Recv: 08/29/2002 08/30/2002

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.00

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|-----------|---------------------------------------|-----------------|------|-----|
| 108-10-1 | 4-Methyl-2-pentanone | | 120 | U |
| 108-87-2 | Methylcyclohexane | | 50 | U |
| 100-42-5 | Styrene | | 25 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 25 | U |
| 127-18-4 | Tetrachloroethene | | 25 | U |
| 108-88-3 | Toluene | | 9 | NDJ |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 25 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 25 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 25 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | | 50 | U |
| 79-01-6 | Trichloroethene | | 24 | DU |
| 75-69-4 | Trichlorofluoromethane | | 25 | U |
| 75-01-4 | Vinyl chloride | | 25 | U |
| 1330-20-7 | Total Xylenes | | 25 | U |
| 103-65-1 | n-Propylbenzene | | 25 | U |
| 99-87-6 | p-Cymene | | 25 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | | 25 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | | 25 | U |
| 104-51-8 | n-Butylbenzene | | 25 | U |
| 135-98-8 | sec-Butylbenzene | | 25 | U |

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASPOO-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

000021

Client No.

W082902EJ-07 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2867303DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5314.RR

Level: (low/med) LOW Date Samp/Recv: 08/29/2002 08/30/2002

% Moisture: not dec. _____ Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.00

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

Number TICs found: 2 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---------|---------------------|------|------------|----|
| 1. | UNKNOWN | 1.43 | 29 | BJ |
| 2. | UNKNOWN HYDROCARBON | 2.23 | 28 | BJ |

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 ANALYSIS DATA SHEET

000022

Client No. _____

W082902EJ-15

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER

Lab Sample ID: A2867302

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: F5313.RR

Level: (low/med) LOW

Date Samp/Recv: 08/29/2002 08/30/2002

% Moisture: not dec. _____ Heated Purge: N

Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 2.00

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|------------|-----------------------------|-----------------|------|-----|
| 67-64-1 | Acetone | | 50 | U |
| 71-43-2 | Benzene | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 10 | U |
| 75-25-2 | Bromoform | | 10 | U |
| 74-83-9 | Bromomethane | | 10 | U |
| 78-93-3 | 2-Butanone | | 50 | U J |
| 75-15-0 | Carbon Disulfide | | 10 | U |
| 56-23-5 | Carbon Tetrachloride | | 10 | U |
| 74-87-3 | Chloromethane | | 10 | U |
| 108-90-7 | Chlorobenzene | | 10 | U |
| 75-00-3 | Chloroethane | | 10 | U |
| 110-82-7 | Cyclohexane | | 20 | U |
| 67-66-3 | Chloroform | | 10 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 10 | U J |
| 124-48-1 | Dibromochloromethane | | 10 | U |
| 75-71-8 | Dichlorodifluoromethane | | 10 | U |
| 106-93-4 | 1,2-Dibromoethane | | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 390 | 110 | U |
| 156-60-5 | trans-1,2-Dichloroethene | | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 10 | U |
| 100-41-4 | Ethylbenzene | | 10 | U |
| 591-78-6 | 2-Hexanone | | 50 | U J |
| 98-82-8 | Isopropylbenzene | | 10 | U |
| 79-20-9 | Methyl acetate | | 20 | U |
| 75-09-2 | Methylene chloride | 10 | 5 | U |
| 1634-04-4 | Methyl tert butyl ether | | 20 | U |

Edit
all
"10 u"
to
"20 u"

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 ANALYSIS DATA SHEET

000023

Client No.

W082902EJ-15

Lab Name: STL Buffalo Contract: _____

Lab Code: REQNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2867302

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5313.RR

Level: (low/med) LOW Date Samp/Recv: 08/29/2002 08/30/2002

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.00

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|-----------|---------------------------------------|-----------------|------|----|
| 108-10-1 | 4-Methyl-2-pentanone | 50 | | UJ |
| 108-87-2 | Methylcyclohexane | 20 | | U |
| 100-42-5 | Styrene | 10 | | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | | U |
| 127-18-4 | Tetrachloroethene | 10 | | U |
| 108-88-3 | Toluene | 10 | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 20 | | U |
| 79-01-6 | Trichloroethene | 320 | 350 | U |
| 75-69-4 | Trichlorofluoromethane | 10 | | U |
| 75-01-4 | Vinyl chloride | 10 | | U |
| 1330-20-7 | Total Xylenes | 10 | | U |
| 103-65-1 | n-Propylbenzene | 10 | | U |
| 99-87-6 | p-Cymene | 10 | | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 10 | | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10 | | U |
| 104-51-8 | n-Butylbenzene | 10 | | U |
| 135-98-8 | sec-Butylbenzene | 10 | | U |

all
"100"
to
"200"

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 TENTATIVELY IDENTIFIED COMPOUNDS

000024

Client No. _____

W082902EJ-15

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNV Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2867302

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5313.RR

Level: (low/med) LOW Date Samp/Recv: 08/29/2002 08/30/2002

% Moisture: not doc. _____ Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.00

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

Number TICs found: 4 CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---------|--------------------------------|------|---------------|---------------|
| 1. | UNKNOWN | 1.43 | 10 | BJ |
| 2. | UNKNOWN | 1.68 | 12 | J |
| 3. | UNKNOWN HYDROCARBON | 2.23 | 23 | BJ |
| 4. | UNKNOWN | 3.22 | 12 | BJ |

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000025

Client No.

W082902EJ-15 DL

Lab Name: SIL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2867302DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5316.RR

Level: (low/med) LOW Date Samp/Recv: 08/29/2002 08/30/2002

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

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

CONCENTRATION UNITS:

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

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|------------|-----------------------------|-----------------|------|-----|
| 67-64-1 | Acetone | | 100 | U |
| 71-43-2 | Benzene | | 20 | U |
| 75-27-4 | Bromodichloromethane | | 20 | U |
| 75-25-2 | Bromoform | | 20 | U |
| 74-83-9 | Bromomethane | | 20 | U |
| 78-93-3 | 2-Butanone | | 100 | U |
| 75-15-0 | Carbon Disulfide | | 20 | U |
| 56-23-5 | Carbon Tetrachloride | | 20 | U |
| 74-87-3 | Chloromethane | | 20 | U |
| 108-90-7 | Chlorobenzene | | 20 | U |
| 75-00-3 | Chloroethane | | 20 | U |
| 110-82-7 | Cyclohexane | | 40 | U |
| 67-66-3 | Chloroform | | 20 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 20 | U |
| 124-48-1 | Dibromochloromethane | | 20 | U |
| 75-71-8 | Dichlorodifluoromethane | | 20 | U |
| 106-93-4 | 1,2-Dibromoethane | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 75-34-3 | 1,1-Dichloroethane | | 20 | U |
| 107-06-2 | 1,2-Dichloroethane | | 20 | U |
| 75-35-4 | 1,1-Dichloroethene | | 20 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 380 | D |
| 156-60-5 | trans-1,2-Dichloroethene | | 20 | U |
| 78-87-5 | 1,2-Dichloropropane | | 20 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 20 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 20 | U |
| 100-41-4 | Ethylbenzene | | 20 | U |
| 591-78-6 | 2-Hexanone | | 100 | U |
| 98-82-8 | Isopropylbenzene | | 20 | U |
| 79-20-9 | Methyl acetate | | 40 | U |
| 75-09-2 | Methylene chloride | | 21 | BDJ |
| 1634-04-4 | Methyl tert butyl ether | | 40 | U |

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000026

Client No. _____

W082902EJ-15 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2867302DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: E5316.RR

Level: (low/med) LOW Date Samp/Recv: 08/29/2002 08/30/2002

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|-----------|---------------------------------------|-----------------|------|-----|
| 108-10-1 | 4-Methyl-2-pentanone | | 100 | U |
| 108-87-2 | Methylcyclohexane | | 40 | U |
| 100-42-5 | Styrene | | 20 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 20 | U |
| 127-18-4 | Tetrachloroethane | | 20 | U |
| 108-88-3 | Toluene | | 4 | EDU |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 20 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 20 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 20 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | | 40 | U |
| 79-01-6 | Trichloroethane | | 320 | D |
| 75-69-4 | Trichlorofluoromethane | | 20 | U |
| 75-01-4 | Vinyl chloride | | 20 | U |
| 1330-20-7 | Total Xylenes | | 20 | U |
| 103-65-1 | n-Propylbenzene | | 20 | U |
| 99-87-6 | p-Cymene | | 20 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | | 20 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | | 20 | U |
| 104-51-8 | n-Butylbenzene | | 20 | U |
| 135-98-8 | sec-Butylbenzene | | 20 | U |

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TENTATIVELY IDENTIFIED COMPOUNDS

000027

Client No.

W082902EJ-15 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2867302DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: FS316.RR

Level: (low/med) LOW Date Samp/Recv: 08/29/2002 08/30/2002

% Moisture: not dec. _____ Date Analyzed: 09/04/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

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

Number TICs found: 1

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|-------------|---------------|------|------------|-----|
| 1. 110-54-3 | HEXANE | 3.22 | 27 | BJN |

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 ANALYSIS DATA SHEET

000028

Client No.

W090402EJ-01

Lab Name: STL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 093002

Matrix: (soil/water) WATER Lab Sample ID: A2876101

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5332.RR

Level: (low/med) LOW Date Samp/Recv: 09/04/2002 09/05/2002

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/06/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

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

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|------------|-----------------------------|-----------------|------|-----|
| 67-64-1 | Acetone | 10 | 5 | J U |
| 71-43-2 | Benzene | | 5 | U |
| 75-27-4 | Bromodichloromethane | | 5 | U |
| 75-25-2 | Bromoform | | 5 | U |
| 74-83-9 | Bromomethane | | 5 | U |
| 78-93-3 | 2-Butanone | | 25 | U J |
| 75-15-0 | Carbon Disulfide | | 5 | U |
| 56-23-5 | Carbon Tetrachloride | | 5 | U |
| 74-87-3 | Chloromethane | | 5 | U |
| 108-90-7 | Chlorobenzene | | 5 | U |
| 75-00-3 | Chloroethane | | 5 | U |
| 110-82-7 | Cyclohexane | | 10 | U |
| 67-66-3 | Chloroform | | 5 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 5 | U J |
| 124-48-1 | Dibromochloromethane | | 5 | U |
| 75-71-8 | Dichlorodifluoromethane | | 5 | U |
| 106-93-4 | 1,2-Dibromoethane | | 5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 5 | U |
| 75-34-3 | 1,1-Dichloroethane | | 5 | U |
| 107-06-2 | 1,2-Dichloroethane | | 5 | U |
| 75-35-4 | 1,1-Dichloroethene | | 5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 380 | J |
| 156-60-5 | trans-1,2-Dichloroethene | | 4 | J |
| 78-87-5 | 1,2-Dichloropropane | | 5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 5 | U |
| 100-41-4 | Ethylbenzene | | 5 | U |
| 591-78-6 | 2-Hexanone | | 25 | U J |
| 98-82-8 | Isopropylbenzene | | 5 | U |
| 79-20-9 | Methyl acetate | | 10 | U |
| 75-09-2 | Methylene chloride | 5 | 2 | J U |
| 1634-04-4 | Methyl tert butyl ether | | 10 | U |

*Edin
all =
"5u"
to
"10u"*

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 ANALYSIS DATA SHEET

000029

Client No.

W090402EJ-01

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2876101

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5332.RR

Level: (low/med) LOW Date Samp/Recv: 09/04/2002 09/05/2002

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/06/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|-----------|---------------------------------------|-----------------|--------------------|-----|
| 108-10-1 | 4-Methyl-2-pentanone | | 25 | U J |
| 108-87-2 | Methylcyclohexane | | 10 | U |
| 100-42-5 | Styrene | | 5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 5 | U |
| 127-18-4 | Tetrachloroethene | | 5 | U |
| 108 88 3 | Toluene | | 5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 5 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | | 10 | U |
| 79-01-6 | Trichloroethene | | 350.430 | U |
| 75-69-4 | Trichlorofluoromethane | | 5 | U |
| 75-01-4 | Vinyl chloride | | 4 | U |
| 1330-20-7 | Total Xylenes | | 5 | U |
| 103-65-1 | n-Propylbenzene | | 5 | U |
| 99-87-6 | p-Cymene | | 5 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | | 5 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | | 5 | U |
| 104-51-8 | n-Butylbenzene | | 5 | U |
| 135-98-8 | sec-Butylbenzene | | 5 | U |

all
"5u"
to
"10 u"

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 BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
 TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

W090402EJ-01

Lab Name: STL Buffalo Contract: _____Lab Code: REONY Case No.: _____ SAS No.: _____ SIG No.: 083002Matrix: (soil/water) WATER Lab Sample ID: A2876101Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5332.RRLevel: (low/med) LOW Date Samp/Recv: 09/04/2002 09/05/2002% Moisture: not dec. _____ Date Analyzed: 09/06/2002GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

Number TICs found: 1 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---------|---------------------|------|------------|----|
| 1. | UNKNOWN HYDROCARBON | 2.05 | 14 | BJ |

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 ANALYSIS DATA SHEET

000031

Client No.

W090402EJ-01 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2876101DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: FS336.RR

Level: (low/med) LOW Date Samp/Recv: 09/04/2002 09/05/2002

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/06/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|------------|-----------------------------|-----------------|------|-----|
| 67-64-1 | Acetone | | 100 | U |
| 71-43-2 | Benzene | | 20 | U |
| 75-27-4 | Bromodichloromethane | | 20 | U |
| 75-25-2 | Bromoform | | 20 | U |
| 74-83-9 | Bromomethane | | 20 | U |
| 78-93-3 | 2-Butanone | | 100 | U |
| 75-15-0 | Carbon Disulfide | | 20 | U |
| 56-23-5 | Carbon Tetrachloride | | 20 | U |
| 74-87-3 | Chloromethane | | 20 | U |
| 108-90-7 | Chlorobenzene | | 20 | U |
| 75-00-3 | Chloroethane | | 20 | U |
| 110-82-7 | Cyclohexane | | 40 | U |
| 67-66-3 | Chloroform | | 20 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 20 | U |
| 124-48-1 | Dibromochloromethane | | 20 | U |
| 75-71-8 | Dichlorodifluoromethane | | 20 | U |
| 106-93-4 | 1,2-Dibromoethane | | 20 | U |
| 95-50-1 | 1,2-Dichlorobenzene | | 20 | U |
| 541-73-1 | 1,3-Dichlorobenzene | | 20 | U |
| 106-46-7 | 1,4-Dichlorobenzene | | 20 | U |
| 75-34-3 | 1,1-Dichloroethane | | 20 | U |
| 107-06-2 | 1,2-Dichloroethane | | 20 | U |
| 75-35-4 | 1,1-Dichloroethene | | 20 | U |
| 156-59-2 | cis-1,2-Dichloroethene | | 380 | D |
| 156-60-5 | trans-1,2-Dichloroethene | | 20 | U |
| 78-87-5 | 1,2-Dichloropropane | | 20 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | | 20 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | | 20 | U |
| 100-41-4 | Ethylbenzene | | 20 | U |
| 591-78-6 | 2-Hexanone | | 100 | U |
| 98-82-8 | Isopropylbenzene | | 20 | U |
| 79-20-9 | Methyl acetate | | 40 | U |
| 75-09-2 | Methylene chloride | | 10 | BDT |
| 1634-04-4 | Methyl tert butyl ether | | 40 | U |

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 ANALYSIS DATA SHEET

000032

Client No. _____

W090402EJ-01 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2876101DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5336.RR

Level: (low/med) LOW Date Samp/Recv: 09/04/2002 09/05/2002

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 09/06/2002

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

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

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L Q

| CAS NO. | COMPOUND | UG/L | Q |
|-----------|---------------------------------------|------|----|
| 108-10-1 | 4-Methyl-2-pentanone | 100 | U |
| 108-87-2 | Methylcyclohexane | 40 | U |
| 100-42-5 | Styrene | 20 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20 | U |
| 127-18-4 | Tetrachloroethene | 20 | U |
| 108-88-3 | Toluene | 20 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 20 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 20 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 40 | U |
| 79-01-6 | Trichloroethene | 380 | D |
| 75-69-4 | Trichlorofluoromethane | 20 | U |
| 75-01-4 | Vinyl chloride | 4 | DU |
| 1330-20-7 | Total Xylenes | 20 | U |
| 103-65-1 | n-Propylbenzene | 20 | U |
| 99-87-6 | p-Cymene | 20 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 20 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 20 | U |
| 104-51-8 | n-Butylbenzene | 20 | U |
| 135-98-8 | sec-Butylbenzene | 20 | U |

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

000033

Client No.

W090402EJ-01 DL

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2876101DL

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F5336.RR

Level: (low/med) LOW Date Samp/Recv: 09/04/2002 09/05/2002

% Moisture: not dec. _____ Date Analyzed: 09/06/2002

GC Column: DH-624 ID: 0.25 (mm) Dilution Factor: 4.00

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

Number TICs found: 2 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|-------------|---------------|------|------------|----|
| 1. | UNKNOWN | 2.05 | 34 | BJ |
| 2. 110-54-3 | HEXANE | 3.21 | 20 | JN |

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 BERG - W - ASP 2000 - METHOD 8270 SEMIVOLATILES
 ANALYSIS DATA SHEET

000034

Client No.

W090402EJ-01

Lab Name: STL Buffalo Contract: _____

Lab Code: RECN Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2876101

Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z52915.RR

Level: (low/med) LOW Date Samp/Recv: 09/04/2002 09/05/2002

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/09/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/11/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

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

| CAS NO. | COMPOUND | UG/L | Q |
|----------|------------------------------|-------|---|
| 100-52-7 | Benzaldehyde | 10 | U |
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | Bis(2-chloroethyl) ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-Oxybis(1-Chloropropane) | 10 | U |
| 98-86-2 | Acetophenone | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-Di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | Bis(2-chloroethoxy) methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 105-60-2 | Caprolactam | 25 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 10 | U |
| 92-52-4 | Biphenyl | 10 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 24 | U |
| 131-11-3 | Dimethyl phthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 24 | U |

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 BERG - W - ASP 2000 - METHOD 8270 SEMIVOLATILES
 ANALYSIS DATA SHEET

000035

Client No.

W090402EJ-01

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2876101

Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z52915.RR

Level: (low/med) LOW Date Samp/Recv: 09/04/2002 09/05/2002

Moisture: _____ decanted: (Y/N) N Date Extracted: 09/09/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/11/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|-----------|-----------------------------|----------------------|------|
| | | (ug/L or ug/Kg) | UG/L |
| 83-32-9 | Acenaphthene | 10 | U |
| 51-28-5 | 2,4-Dinitrophenol | 24 | U |
| 100-02-7 | 4-Nitrophenol | 24 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethyl phthalate | 10 | U |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 100-01-6 | 4-Nitroaniline | 24 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 24 | U |
| 86-30-6 | N-nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl phenyl ether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 1912-24-9 | Atrazine | 10 | U |
| 87-86-5 | Pentachlorophenol | 24 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-butyl phthalate | 10 0.5 | F U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butyl benzyl phthalate | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 56-55-3 | Benzo (a) anthracene | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| 117-81-7 | Bis(2 ethylhexyl) phthalate | 10 X | BT U |
| 117-84-0 | Di-n-octyl phthalate | 10 | U |
| 205-99-2 | Benzo (b) fluoranthene | 10 | U |
| 207-08-9 | Benzo (k) fluoranthene | 10 | U |
| 50-32-8 | Benzo (a) pyrene | 10 | U |
| 193-39-5 | Indeno (1,2,3-cd) pyrene | 10 | U |
| 53-70-3 | Dibenzo (a, h) anthracene | 10 | U |

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BERG - W - ASP 2000 - METHOD 8270 SEMI-VOLATILES
ANALYSIS DATA SHEET

000036

Client No.

W090402EJ-01

Lab Name: SIL Buffalo Contract: _____

Lab Code: RECONY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2876101

Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z52915.RR

Level: (low/med) LOW Date Samp/Recv: 09/04/2002 09/05/2002

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/09/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/11/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

CONCENTRATION UNITS:

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

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|---------------|--------------------|-----------------|------|---|
| 191-24-2----- | Benzo(ghi)perylene | | 10 | U |

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BERG - W - ASP 2000 - METHOD 8270 SEMIVOLATILES
TENTATIVELY IDENTIFIED COMPOUNDS

000037

Client No.

W090402EJ-01

Lab Name: STL Buffalo Contract: _____

Lab Code: REONY Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2876101

Sample wt/vol: 1040.0 (g/mL) ML Lab File ID: Z52915.RR

Level: (low/med) LOW Date Samp/Recv: 09/04/2002 09/05/2002

% Moisture: _____ decanted: (Y/N) N Date Extracted: 09/09/2002

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/11/2002

Injection Volume: 2.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 0

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

| CAS NO. | Compound Name | RT | Est. Conc. | Q |
|---------|---------------|----|------------|---|
| | | | | |

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - W - ASP00 - 8081 PESTICIDES
 ANALYSIS DATA SHEET

000038

Client No.

W090402EJ-01

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 083002

Matrix: (soil/water) WATER

Lab Sample ID: A2876101

Sample wt/vol: 1000.00 (g/mL) ML

Lab File ID: RA20088, TX0

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

Date Samp/Recv: 09/04/2002 09/05/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 09/05/2002

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/07/2002

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.00

Sulfur Cleanup: (Y/N) N

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

CAS NO.

COMPOUND

Q

| | | | |
|------------|---------------------|-------|-----|
| 319-84-6 | alpha-BHC | 0.050 | U |
| 319-85-7 | beta-BHC | 0.050 | U |
| 319-86-8 | delta-BHC | 0.050 | U |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U |
| 76-44-8 | Heptachlor | 0.050 | U |
| 309-00-2 | Aldrin | 0.050 | U |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U |
| 959-98-8 | Endosulfan I | 0.10 | U |
| 60-57-1 | Dieldrin | 0.10 | U |
| 72-55-9 | 4,4'-DDE | 0.10 | U |
| 72-20-8 | Endrin | 0.10 | U |
| 33213-65-9 | Endosulfan II | 0.10 | U |
| 72-54-8 | 4,4'-DDD | 0.10 | U J |
| 1031-07-8 | Endosulfan Sulfate | 0.10 | U |
| 50-29-3 | 4,4'-DDT | 0.10 | U J |
| 72-43-5 | Methoxychlor | 0.50 | U |
| 53494-70-5 | Endrin ketone | 0.10 | U |
| 7421-93-4 | Endrin aldehyde | 0.20 | U |
| 5103-71-9 | alpha-Chlordane | 0.050 | U |
| 5103-74-2 | gamma-Chlordane | 0.050 | U |
| 8001-35-2 | Toxaphene | 1.0 | U |

BERGMANN ASSOCIATES, INC.
 BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
 BERG - W - ASP00 8082 - POLYCHLORINATED BIPHENYLS
 ANALYSIS DATA SHEET

000039

Client No.

W090402EJ-01

Lab Name: SIL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 083002

Matrix: (soil/water) WATER

Lab Sample ID: A2876101

Sample wt/vol: 1040.00 (g/mL) ML

Lab File ID: LA07205.TX0

Moisture: _____ decanted: (Y/N) N

Date Samp/Recv: 09/04/2002 09/05/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF

Date Extracted: 09/06/2002

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 09/06/2002

Injection Volume: 1.00 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.00

Sulfur Cleanup: (Y/N) N

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> | Q |
|----------------|--------------|---|-----|
| 12674-11-2---- | Aroclor 1016 | 0.48 | U |
| 11104-28-2---- | Aroclor 1221 | 0.48 | U |
| 11141-16-5---- | Aroclor 1232 | 0.48 | U |
| 53469-21-9---- | Aroclor 1242 | 0.48 | U |
| 12672-29-6---- | Aroclor 1248 | 0.48 | U |
| 11097-69-1---- | Aroclor 1254 | 0.48 | U J |
| 11096-82-5---- | Aroclor 1260 | 0.48 | U |

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 BERG - W - ASP00 - 8151 - HERBICIDES (3 COMPS)
 ANALYSIS DATA SHEET

000040

Client No. _____

W090402BJ-01

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNV Case No.: _____ SAS No.: _____ SDG No.: 083002

Matrix: (soil/water) WATER Lab Sample ID: A2876101

Sample wt/vol: 1000.00 (g/mL) ML Lab File ID: MA67304.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: 09/04/2002 09/05/2002

Extraction: (SepF/Cont/Sonc/Soxh): SEPF Date Extracted: 09/06/2002

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 09/13/2002

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 6.00 Sulfur Cleanup: (Y/N) N

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

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> | Q |
|--------------|-------------------|---|---|
| 93-76-5----- | 2,4,5-T | 2.0 | U |
| 93-72-1----- | 2,4,5-TP (Silvex) | 2.0 | U |
| 94-75-7----- | 2,4-D | 10 | U |

Bergmann Associates, Inc.

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

W090402EJ-01

Contract: NY01-449

Lab Code: STL BFLO

Case No.:

SAS No.:

SDG NO.: 083002

Matrix (soil/water): WATER

Lab Sample ID: AD224983

Level (low/med): LOW

Date Received: 9/5/02

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

| CAS No. | Analyte | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum | 33.1 | U | J | P |
| 7440-36-0 | Antimony | 2.2 | U | | P |
| 7440-38-2 | Arsenic | 2.8 | B | | P |
| 7440-39-3 | Barium | 342 | | | P |
| 7440-41-7 | Beryllium | 0.30 | U | | P |
| 7440-43-9 | Cadmium | 0.30 | U | | P |
| 7440-70-2 | Calcium | 81000 | | | P |
| 7440-47-3 | Chromium | 0.60 | U | | P |
| 7440-48-4 | Cobalt | 1.5 | U | | P |
| 7440-50-8 | Copper | 0.91 | B | | P |
| 7439-89-6 | Iron | 8390 | | | P |
| 7439-92-1 | Lead | 2.3 | B | J | P |
| 7439-95-4 | Magnesium | 16600 | | | P |
| 7439-96-5 | Manganese | 716 | | | P |
| 7440-02-0 | Nickel | 4.7 | U | | P |
| 7440-09-7 | Potassium | 2570 | B | | P |
| 7782-49-2 | Selenium | 4.9 | U | | P |
| 7439-97-6 | Mercury | 0.092 | U | J | CV |
| 7440-22-4 | Silver | 0.90 | U | | P |
| 7440-23-5 | Sodium | 26100 | | | P |
| 7440-28-0 | Thallium | 5.6 | B | J | P |
| 7440-62-2 | Vanadium | 1.1 | B | | P |
| 7440-66-5 | Zinc | 3.0 | B | | P |

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: NONE

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

Bergmann Associates, Inc.
 Bergmann Assoc. - Gowanda Day Habilitation Center
 Wet Chemistry Analysis

000042

Client Sample No.

W090402EJ-01

Lab Name: STL Buffalo

Contract: _____

Lab Code: RECNY

Case No.: _____

SAS No.: _____

SDG No.: 083002

Matrix (soil/water): WATER

Lab Sample ID: A2876101

% Solids: 0.0

Date Samp/Recv: 09/04/2002 09/05/2002

| Parameter Name | Units of Measure | Result | C | Q | M | Method Number | Analyzed Date |
|-----------------|------------------|--------|---|---|---|---------------|---------------|
| Cyanide - Total | UG/L | 10 | U | | | 9012 | 09/12/200 |

Comments:

APPENDIX 6
Data Usability and Summary Report

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, N. Y. 12853

Phone 518-251-4429

Facsimile 518-251-4428

February 26, 2003

Edward Jones
Bergmann Associates
200 1st Federal Plaza
28 E. Main St.
Rochester, NY 14614

RE: **Data Usability Summary Report for Gowanda Day Habilitation site**
STL-Buffalo SDG/Package Nos. 7056, 7059, 8664, and 083002

Dear Mr. Jones:

Review has been completed for the data packages generated by Severn Trent Laboratories that pertain to soil samples collected 7/8/02 through 7/31/02 and aqueous samples collected 8/28/02 through 9/4/02 at the Gowanda site.

Five soil samples were processed for TCL and STARS volatiles, TCL semivolatiles, TCL pesticides, TCL PCBs, three herbicides, and TAL metals/CN, four of them by USEPA SW846 methods, and one by the 2000 NYSDEC ASP. Seven aqueous samples were processed for TCL and STARS volatiles, TCL semivolatiles, TCL pesticides, TCL PCBs, three herbicides, and TAL metals/CN, six of them by USEPA SW846 methods, and one by the 2000 NYSDEC ASP. Twenty seven soil samples were processed for TCL and STARS volatiles, twenty three of them by USEPA SW846 methods, and four by the 2000 NYSDEC ASP. Twelve aqueous samples were processed for TCL and STARS volatiles, ten of them by USEPA SW846 methods, and two by the 2000 NYSDEC ASP. Sample matrix spikes, and equipment and trip blanks were also processed.

The field samples processed by NYSDEC 2000 ASP were reported with full laboratory deliverables, for which this DUSR review was performed. That review involves review of all summary form information and sample raw data. Full validation of all QC results has not been performed. The remaining samples were processed by USEPA SW846 methodologies, and reduced, summary level data packages were produced. The summary forms in those data packages were reviewed, and any observed anomalies in QC are also discussed within this narrative. The data have been reviewed for application of validation qualifiers, per the USEPA Region 2 validation SOPs and the USEPA National Functional

Guidelines for Data Review, as affects the usability of the sample data. The following items were reviewed:

- * Laboratory Narrative Discussion
- * Custody Documentation
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Matrix Spike Recoveries/Duplicate Correlations
- * Preparation/Calibration Blanks
- * Control Spike/Laboratory Control Samples
- * Instrumental Tunes and IDLs (ASP only)
- * Calibration/CRI/CRA Standards (ASP only)
- * ICP Interference Check Standards (ASP only)
- * ICP Serial Dilution Correlations (ASP only)

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR review level.

In summary, although much of the data is usable as reported, or usable with minor qualification as estimated, several data gaps involving rejected data points are observed:

- Pesticide data for two aqueous samples are not usable due to apparent matrix effect
- PCB and pesticide data for one soil sample are not usable due to apparent matrix effect
- Cyanide results for five soils are not usable due to holding time violations
- There is a low bias to other sample pesticide and PCB results due to apparent matrix effect

Although usable cyanide results could be obtained with sample recollection, it is possible that the pesticide and PCB for the affected samples may not improve with resampling. These issues, and others of interest, are discussed in the following sections.

Copies of the laboratory case narratives, sample summaries, and resubmission communications are attached to this text, and should be reviewed in conjunction with this report. Sample report forms from the data summary packages and laboratory revisions are also attached, and reflect final samples results with validation qualifiers/edits in red ink, as detailed below. It should be noted that the samples processed by SW846 (SDGs 7056 and 8664) reflect only the qualifiers evident with summary package review.

The following text discusses quality issues of concern.

Data Completeness

Original ASP data packages did not include data for the herbicide processing, which was provided on request. There is no narrative discussion regarding the herbicide analyses. Also resubmitted were standard QC summary forms for the ASP herbicide, PCB, and pesticide processing, and pesticide IDLs.

Results for cyanide in one soil sample were corrected by the laboratory to revise the reporting limit, and that value has been additionally lowered upon validation (revised form attached). Results for two soil samples were revised by the laboratory to reflect the correct date of collection.

The summary level data packages (8664 and 7056), compiled for the samples processed by SW846, include laboratory narratives that are not signed. The laboratory deliverables for the SW846 summary packages do not allow for correlation between organic method blanks and associated samples (no blank analysis dates provided).

The report forms for matrix spikes should indicate MS or MSD in the client ID to avoid confusion with the actual sample result report forms.

Copies of resubmission communication letters are attached; raw data items have been enclosed with the data packages.

General

Aqueous field duplicate correlations for all analytes on sample 090402EJ01 were acceptable, with the exception of that for aluminum, with results showing nondetection at 33 ug/L, and detection at 320 ug/L. Results for that element in the parent sample and its duplicate are qualified estimated. Field duplicate correlations for volatiles on aqueous sample W082902EJ-07 and soil sample S072302EJ-25 were acceptable.

Matrix spike accuracy and precision evaluations were generally acceptable, with the exception of those for a few metals in soil, noted specifically below.

Due to limited sample volume of S073102EJ-01 8-10, the ASP herbicide analysis of the soil was conducted on sample S073102EJ-01 2-4.

TCL Volatiles by ASP CLP and SW846

Aqueous samples processed by ASP were reported with an incorrect reporting limit of 5 ug/L. Sample reporting limits are to be raised to 10 ug/L (i.e. 10 U), multiplied by dilution factor, to match the low calibration standard concentration, and detected values between 5 and 10 ppb are to be flagged as estimated ("J").

Surrogate and internal standard recoveries were acceptable for all project samples, with the exception of those for S073002EJ07 16-17.5, which showed recoveries of 27% to 30% for all three internal standards. The initial results for the sample should be used, with all analyte values qualified estimated ("J" or "UJ"), with a low bias, with the exception of the results for cis-1,2-dichloroethene and trichloroethene, which are derived from an acceptable dilution analysis. The reinjection result for S072302EJ25 9-11 should be used, as the initial shows outlying internal standard responses.

Holding times were met for all project samples, and instrument tunes (ASP review only) were acceptable.

Due to presence in associated method, trip, and/or equipment blanks, detected results for methylene chloride, acetone, and toluene are considered external contamination, and edited to nondetection ("U") at either the CRDL, or the originally reported concentration, whichever is greater:

Results for sample analytes initially reported with the "E" flag are to be derived from the dilution ("-DL") analyses of the samples. They are the following:

| Sample ID | Analyte | Results, ppb |
|--------------------|------------------------|--------------|
| S073002EJ-07 16-17 | cis-1,2-dichloroethene | 550 |
| | trichloroethene | 330 |
| S073102EJ-01 2-4 | cis-1,2-dichloroethene | 940 |
| | trichloroethene | 14000 |
| S073102EJ-01 8-10 | trichloroethene | 3600 |
| S073102EJ-24 18-20 | cis-1,2-dichloroethene | 700 |
| | trichloroethene | 910 |
| W082802EJ-13 | trichloroethene | 250 |
| W082902EJ-06 | cis-1,2-dichloroethene | 400 |
| W082902EJ-07 | cis-1,2-dichloroethene | 420 |
| W082902EJ-07D | cis-1,2-dichloroethene | 380 |
| W082902EJ-11 | cis-1,2-dichloroethene | 2300 |
| | trichloroethene | 2300 |
| W082902EJ-12 | cis-1,2-dichloroethene | 3000 |
| | trichloroethene | 9600 |
| W082902EJ-15 | cis-1,2-dichloroethene | 380 |
| | trichloroethene | 320 |
| W090402EJ-01 | cis-1,2-dichloroethene | 380 |
| | trichloroethene | 380 |
| W090402EJ-01D | cis-1,2-dichloroethene | 300 |
| | trichloroethene | 320 |

Unless noted specifically within this text, results for all analytes other than those noted above can be derived from the initial analyses of the samples.

Soil matrix spikes of S073102EJ-01 show acceptable accuracy and precision, with the exception of one slightly low recovery, not significantly affecting sample reported results. The soil matrix spikes of S073002EJ-06 18-20 show outlying recoveries for four of the five analytes evaluated, indicating possible matrix effect. That for trichloroethene is very poor, and inconsistent. Results for the following analytes in the parent sample are to be considered estimated ("J"), with a possible low bias: benzene, trichloroethene, toluene, and chlorobenzene. Other analyte results should be used with caution.

Aqueous matrix spikes of W090402EJ-01 shows acceptable accuracy and precision in the initial and dilution analyses (there was one elevated duplicate correlation for an analyte not detected in the parent sample, not affecting reported results).

Calibrations standards were evaluated for the samples reported by ASP processing, and show responses not significantly affecting reported results, with the exception of those for 2-butanone, 2-hexanone, 4-methyl-2-pentanone, and 1,2-dibromo-3-chloropropane, results for which are to be qualified estimated ("UJ" or "J") in the aqueous samples in SDG 83002.

The standard summary form for the 7/21/02 analysis for STARS compounds utilized incorrect mean RRF values. Actual %D values were reviewed and found acceptable.

Tentatively Identified Compounds (TICs) flagged as "B" by the laboratory, or identified as hexane, carbon dioxide, or system artifacts, are considered external contamination (indicated by presence in associated blanks), and results should be rejected as sample components.

Semivolatile Analyses by ASP CLP or SW846

Surrogate and internal standard recoveries were acceptable, although two control samples (blank and MSB) were doubly spiked with the internal standards. Associated sample results are not affected.

The result for anthracene in S073102EJ-01 8-10 is to be edited to nondetection at the CRDL due to misidentification (the response is that of phenathrene, also reported).

Due to presence in associated method or rinse blanks, results for di-n-butylphthalate in the aqueous samples and in S072302EJ25D 9-11 are considered external contamination, and edited to nondetection ("U") at either the CRDL, or the originally reported concentration, whichever is greater.

Due to presence in associated method or rinse blanks, results for bis(2-ethylhexyl)phthalate in aqueous sample in SDG 83002 is considered external contamination, and edited to nondetection ("U") at either the CRDL, or the originally reported concentration, whichever is greater.

The result for butylbenzylphthalate in S072302EJ25D 9-11, initially reported with the "E" flag, is to be derived from the dilution ("DL") analyses of the sample (7300 ug/kg).

Calibrations standards were evaluated for the samples processed by ASP, and show acceptable responses, with the exception of the following:

- a) 2,4-dinitrophenol results in the aqueous samples processed by SW846 are to be qualified estimated ("UJ") with a low bias (based on lab case narrative comment).
- b) 2,4-dinitrophenol results in S073102EJ-01 is to be qualified estimated ("UJ") with a low bias
- c) The reporting limit for caprolactum in the aqueous sample in SDG 83002 is to be edited upward to 25 ug/L (25 U) due to poor response in low concentration calibration standard.

Nondetected results are not qualified for elevated responses in associated continuing calibration standards.

Soil matrix spikes of S073102EJ-01 8-10 show low recoveries for 2,4-dinitrotoluene (16% and 17%); the result for that analyte in the parent sample is qualified estimated ("UJ"), with a low bias. The matrix spikes of aqueous sample W090402EJ-01, the associated spiked blank, and the soil matrix spikes, show one to three slightly elevated recoveries or duplicate correlation for analytes not detected in the project samples; results are unaffected.

Tentatively Identified Compounds (TICs) flagged as "B" by the laboratory are considered external contamination (indicated by presence in associated blanks), and results should be rejected as sample components. Those identified as aldol condensates, flagged by the laboratory as "A", are analysis artifacts, and are similarly rejected. Results for alkane TICs in the samples were reported with the case narrative in original data submissions, but were omitted from the revised packages.

TCL Pesticide/PCB and Herbicide Analyses by CLP and SW846

Reporting limits for herbicides in the soil sample were reported unnecessarily high and have been edited on the attached report form.

Due to very poor recovery of surrogate standards (below 10%), results for the pesticides in samples W082902EJ-06, W082902EJ-12, and S070902EJ-17 8-12 are rejected ("R") (all report nondetection). Bergmann Associates should have been notified by the laboratory regarding these failures.

Due to low recovery of surrogate standard DCB (20% to 22%), the reporting limit results for the pesticides in sample W090402EJ-01D, and for the PCBs in samples W082902EJ-06 and W082902EJ-12 are qualified estimated ("UJ") (all report nondetection). It is noted that a pesticide/PCB method blank also exhibited low surrogate TCX recovery (20%), indicating a processing, rather than matrix, effect.

Pesticide/PCB detections in S072392EJ-25 9-11 and S072302EJ-25D 9-11 are qualified as estimated ("J") with a high bias due to elevated surrogate recoveries (178% and 246%).

The detection of methoxychlor in S073102EJ-01 8-10 is qualified as tentative in identification ("N") due to poor dual column correlation; the laboratory should have flagged this analyte as "P".

Herbicide matrix spikes of W090402EJ-01 and S073102EJ 8-10 show acceptable recoveries and duplicate correlations.

Matrix spikes of pesticides and Aroclor 1254 in S073102EJ-01 8-10 also show acceptable accuracy and precision.

Matrix spikes of W090402EJ-01 show outlying recoveries for pesticides 4,4'-DDD and 4,4'-DDT, and for Aroclor 1260 (all between 35% and 47%). Results for those analytes in the parent sample are qualified estimated.

Laboratory control samples spiked with all pesticide, herbicide, or Aroclor 1660 analytes show acceptable recoveries.

TAL Metals/CN by CLP-M and SW846

The cyanide reporting limit for the soil sample in SDG 7059 is unnecessarily high (10 mg/kg). The limit has been lowered to 0.5 mg/kg.

Cyanide results in the following soils are rejected ("R") due to outlying holding time (31 to 46 days): S070902EJ-17 8-12, S071902EJ-GARDEN-N, S072302EJ-25 9-11, S072302EJ-25D 9-11, and S072402EJ-21 8-10.

The cyanide results in S073102EJ-01 8-10 and in the 7/31/02 field blank, are qualified estimated ("UJ"), with a very low bias due to holding time exceedence (24 and 25 days from collection).

ICP serial dilution evaluations for the aqueous sample W090402WJ-01 shows acceptable correlations. That for the soil S073102EJ-01 8-10 shows numerous outliers, all above the 10%D limit; all but one are below 12%D. The affected elements are as follows, and are qualified estimated ("J") in the sample. The bias is not expected to be great: calcium, chromium, cobalt, iron, nickel, potassium, and zinc

Soil concentrations of barium and iron were above the action level required due to low level field blank contamination.

The aqueous matrix spikes of W090402EJ-01 show acceptable recoveries.

Soil matrix spikes of S072402EJ-21 8-10 show low recoveries (32% to 69%) for antimony, barium, potassium, and zinc. Results for those four analytes in the soils processed by SW846 are to be qualified estimated ("J" or "UJ").

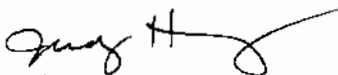
Soil matrix spikes of S073102EJ-01 8-10 show outlying recoveries (49% to 1190%) for antimony, manganese, and zinc. Results for those three analytes in the parent samples are qualified estimated ("J" or "UJ").

Cyanide matrix spikes of W090402EJ-01 and S073102EJ-01 2-4 show acceptable accuracy and precision.

Due to low recoveries (65% to 78%) of CRI/CRA standards, results for mercury and thallium in W090402EJ-01 are qualified estimated, with a low bias, on the attached forms. Due to elevated recoveries (131 to 169%), the lead in the same sample is qualified estimated, with a high bias. No corrective laboratory action is required for CRI/CRA results.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,


Judy Harry

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