SUPPLEMENTAL 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:

2004

Dormitory Authority of the State of New York
And
New York State Office of Mental Retardation and Developmental Disabilities
Contract # 84805, WA-12

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2003 SUPPLEMENTAL SITE INVESTIGATION

1.0 INTRODUCTION

1.1 Background

Bergmann Associates (Bergmann) prepared this Supplemental Site Investigation (SSI) Report 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 SSI 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, entered into a VCA agreement with the NYSDEC to conduct this investigation in accordance with VCA Site # V-00463-9, effective August 16, 2001. OMRDD and DASNY decided to have Bergmann perform an SSI in December 2002.

Bergmann conducted the site investigation in accordance with the approved Investigation Work Plan for a Voluntary Cleanup Program Site Investigation, dated October 29, 2001. OMRDD/DASNY authorized additional investigative work

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 within the building, in soil gas samples beneath the building and also in soil and groundwater samples adjacent to the structure.

1.2 2002 Site Investigation Results Summary

Investigative activities completed in 2002 included:

- Installation of 15 groundwater monitoring wells.
- Collection of surface and subsurface soil samples and groundwater samples for laboratory analyses.
- Slug tests.
- Groundwater depth gauging.
- Determination of the local hydrogeologic characteristics.
- Completion of the April 2003 Site Investigation (SI) report.

The April 2003 SI report concluded that the chlorinated solvent Trichloroethene (TCE) had likely been released at an on-site surface or near-surface source area and has apparently migrated vertically through the vadose zone to the shallow water table aquifer. Some TCE and related

decay products cis-DCE, trans-DCE and vinyl chloride have 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.

The SI report recommended further investigative work to define the extent of impacted groundwater, including installation of off-site groundwater monitoring wells north of the subject parcel. Additional sampling of down-gradient and cross-gradient monitoring wells may assist in evaluating possible off-site sources that are contributing to groundwater contamination.

The SI report recommended investigative work to address the potential for off-site volatilization of chlorinated solvents from the contaminant plume north of the subject parcel, to allow for evaluation of indoor air quality impacts to residences along Torrance Place.

The SI report also recommended Implementation of an Interim Remedial Measures (IRM) program including 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.

1.3 Supplemental Site Investigation Objectives

The following objectives were addressed as part of the SSI:

- Conduct a soil gas study at the subject parcel's northern property line.
- Conduct modeling of potential effects on indoor air quality (IAQ) for properties north of the subject parcel.
- Update groundwater quality data.
- Update the groundwater regime and flow direction at the study site with off-site data points.
- Evaluate the potential for off-site migration of impacted groundwater.
- Develop remedial alternatives for site cleanup measures that may be warranted.

1.4 Site Description

The Gowanda Day Habilitation Center 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, 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, open land and grass fields. 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 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. In April 2001 operations ceased at the facility and services were relocated to alternate OMRDD locations.

Commercial/industrial properties are located along Industrial Place to the east and southeast of the subject parcel. Thatcher Creek, a tributary to Cattaraugus Creek, delineates the western border while residential properties are located along Torrance Place, north of the subject parcel.

2.0 SSI SITE INVESTIGATION FIELD ACTIVITIES

2.1 Supplemental Site Investigation Work Tasks

The work tasks to be completed as part of the SSI were outlined in a work plan dated May 14, 2003. The soil gas sampling and analysis portion of the work plan were revised in a separate work plan dated June 2, 2003. The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) provided verbal approval to both work plans in May and June 2003.

The SSI included the following tasks:

- Installation of shallow soil gas sampling points along the subject parcel's north property line.
- Collection soil gas samples from the north property line for laboratory analysis.
- Installation of four additional groundwater monitoring wells.
- Updating the groundwater and aquifer hydraulic characteristics.
- Collection of additional soil and groundwater samples for laboratory analysis.
- Preparation of a Supplemental Site Investigation report.

On-site SSI activities at the Gowanda Day Habilitation Center subject parcel began on June 11, 2003 with the installation of soil gas test points. Field work was completed on July 23, 2003 with the collection of groundwater samples. Site visits were also conducted in September 2003 as part of the Interim Remedial Measures (IRM) design. The fieldwork was completed in accordance with the SSI work plan as approved by the NYSDEC and NYSDOH. A summary of the SSI field investigation activities follows.

2.2 Soil Gas Test Point Installation

Ten soil gas test points were installed on June 11, 2003. The soil gas test points along the north property line were evenly spaced, approximately 35 feet apart. Each soil gas test point was located on the subject parcel property, just south of the property line in the grass strip between the edge of the existing asphalt access road and the wooded fence (where present). An up-gradient soil gas test point was installed in the field southwest of the building, in the vicinity of boring B-17. This point served as a background sample location. The locations of the soil gas test points are shown on Figure 2.

The soil gas test points were installed to the approximate depth of local residential basements, approximately 6 feet below ground surface. Soil vapor sampling implants, each with a six inch long, double woven stainless steel wire screen connected to flexible tubing, was installed via Direct Push technology. The points were installed "Post Run" after the boring probe advanced borings to sample depth. After the sample depth was reached, the probe was retracted and a vapor sampling implant was inserted to the bottom of the boring. Following placement of the soil gas sampling implant, filter sand was placed around the 6-inch wire screen and the boring was backfilled with hydrated bentonite pellets to form an airtight seal.

The vapor sampling implants were connected to 3/8-inch diameter flexible tubing leading to the ground surface. A 1.5 inch diameter PVC cap was inserted by hand into the boring at ground surface to provide for short-term protection for the tubing.

2.3 Soil Gas Sampling Methodology

Soil gas samples were collected on June 12, 2003. After minimal purging (to remove one volume of air from the tubing) soil gas samples were collected via a flow controller into airtight, stainless steel Summa Canisters. Each canister was pre-set for 60-minute collection duration. After collection the samples were shipped via overnight express mail to the Columbia Analytical Services (CAS) air quality laboratory in Simi Valley, CA for analysis. The samples arrived on June 13, 2003. This facility is NYSDOH certified facility (I.D. No. 11221).

Laboratory analysis on the soil gas samples collected in June 2003 is discussed in Section 3.1 of this report.

2.4 2003 Supplemental Monitoring Well Installation

The SSI fieldwork included installation of four groundwater monitoring wells. The wells were installed to refine the understanding of local hydrogeologic conditions, and to allow for groundwater monitoring at off-site locations north of the subject parcel. Monitoring wells were installed between July 9 and July 11, 2003 by Geologic NY, Inc, with oversight by Bergmann personnel. 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 then advanced a minimum of 6 inches into the till layer. Completed monitoring wells ranged in depth from 18.5 feet to 28.0 feet below ground surface. Continuous soil samples were obtained at each boring.

Well locations were adjusted based on site access, overhead clearance and underground utilities. Monitoring well locations and elevation data are shown on Figure 3. Well construction details are included as Appendix 1. Monitoring well details are summarized in Table 1.

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

The monitoring wells were all constructed of 2-inch (inside diameter), Schedule 40 PVC, 0.010 inch slot well screen, with 2 inch (inside diameter) PVC riser. Well screens are 11.5 to 20 feet in length, as necessary to intercept the saturated thickness of the aquifer. Those wells constructed near roads were completed with flush mounted curb boxes, while those not in the potential path of vehicle traffic were completed with a protective steel casing extending above ground surface.

TABLE 1
SSI 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-16	07/10/2003	PVC	2"	780.43	12 feet	6.0 to 21.0 feet	20.5 feet
MW-17	07/09/2003	PVC	2"	779.85	12 feet	9.0 to 24.0 feet	23.5 feet
MW-18	07/10/2003	PVC	2"	776.39	10 feet	8.0 to 28.0 feet	27.5 feet
MW-19	07/11/2003	PVC	2"	774.82	12 feet	7.0 to 18.5 feet	17.8 feet

2.5 Field Screening of Test Boring Soil Samples

All soil samples collected from the additional monitoring wells were visually examined noting any unusual characteristics. Field screening and laboratory analysis was performed as part of the test boring/well installation program. The borings for the wells were advanced to an underlying clay-glacial till deposits. 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 SSI TEST BORINGS AND FIELD SCREENING

Monitoring 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
MW-16	07/10/2003	Drill Rig, augers	5.6 PPM, 18' - 20'	18'-20':PID=5.6 PPM	12 feet	20.5 feet
MW-17	07/09/2003	Drill Rig, augers	3.4 PPM, 16' - 18'	20'-22':PID=2.3 PPM	12 feet	23.5 feet
MW-18	07/10/2003	Drill Rig, augers	5.6 PPM, 16'-18'	16'-18': PID=5.6 PPM	10 feet	27.5 feet
MW-19	07/11/2003	Drill Rig, augers	1.4 PPM, 4'-6'	12'-14': PID=0.3 PPM	12 feet	17.8 feet

2.6 Measurement of Groundwater Elevations

The depth to groundwater was measured on July 22, 2003 for all groundwater monitoring wells. Measurements for the 4 additional monitoring wells were made after well completion, prior to sampling. The data was converted to sea level-elevation based on surveyed elevations of the monitoring well and developed into a surface plot. This information indicates the direction of groundwater flow. The July 2003 field monitoring data are included in Appendix 2.

As part of the 2002 Site Investigation groundwater measurements were made on August 28, 2002, November 17, 2002 and December 10, 2002. The July 2003 and 2002 groundwater measurements and flow pattern are discussed in Section 3.3 of this report.

2.7 2003 Survey Work

At the completion of the installation of the July 2003 drilling program, the additional 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. The survey work was completed by Larson Engineers and Surveyors on July 22, 2003. 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 3).

On July 22, 2003, elevations for ground surface for the four additional wells were 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 for each well was determined to an 0.010 foot accuracy. Well locations were determined to 0.10 foot accuracy (northing and easting). Elevation data for grade, top of well casing and for the protective device are shown on Figure 3.

2.8 Laboratory Analysis on Soil Samples, 2003 Well Installation Program

One soil sample was collected from each monitoring well test boring for laboratory analysis. The analysis included volatile organic compounds, by U.S. EPA Method 8260. The QA/QC program also included analysis of sufficient Field Duplicate, Matrix Spike and Trip Blank samples to comply with New York State Analytical Services Protocol (ASP). One soil sample (20% of the collected soil samples) was subject to Analytical Services Protocol (ASP) review.

Analytical results are detailed in Section 3.0 of this report. All soil samples were collected by Bergmann personnel. The samples were handled, labeled and preserved in accordance with the approved SSI 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 Severn Trent Laboratories in Amherst, NY on July 11, 2003.

2.9 2003 Groundwater Sampling and Laboratory Analysis

All monitoring wells were sampled on July 22 and 23, 2003. The new wells (MW-16, MW-17, MW-18 and MW-19) were developed to remove sediments from each filter pack, and to improve groundwater flow into the wells. All wells were sampled using low-flow techniques to remove stagnant water and to collect representative samples.

The wells were sampled using 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 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. The four monitoring wells installed as part of the 2003 SSI and the previously installed wells (2002) were sampled. 20% of the samples (total of 4 plus an MS and MSD sample) were

submitted for analyses according to NYSDEC ASP. For QA/QC purposes a duplicate sample was collected from monitoring well MW-19. Duplicate samples were also collected from MW-17 for Matrix Spike and Matrix Spike Duplicate analysis under ASP protocol.

Each well was purged of at least three well volumes of water using a peristaltic pump at a low flow rate, prior to sample collection 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 each 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.

All groundwater samples were collected by Bergmann Associates. Groundwater samples were handled, labeled and preserved in accordance with the approved SSI plan. Samples were submitted under Chain-of-Custody protocol on July 23, 2003. Analytical results are detailed in Section 3.0 of this report.

2.10 2003 Data Validation and Usability,

In accordance with the SSI work plan, a Data Usability Summary Report (DUSR) was prepared by a qualified, independent firm – Data Validation Services on data packages generated by Severn Trent Laboratories. The following data packages were reviewed:

- Five soil samples for analysis of Target Compound List (TCL) of Volatile Organic Compounds (VOCs) via USEPA Method 8260. These samples included one sample (with a matrix spike and matrix spike duplicate) by 2000 NYSDEC ASP and four samples (including a duplicate soil sample) for analysis by USEPA SW846. One aqueous trip blank was submitted for analysis via ASP, and one aqueous field blank was analyzed via SW846.

- 20 groundwater samples for analysis of TCL VOCs via USEPA Method 8260. These samples included five samples (one matrix spike and matrix spike duplicate) by 2000 NYSDEC ASP and 15 samples (including a duplicate groundwater sample) for analysis by USEPA SW846. A trip blank was submitted for analysis via ASP and a field blank was submitted for analysis via SW846.

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 with summary level data packages. 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 are discussed in Section 3.5.

3.0 SUPPLEMENTAL SITE INVESTIGATION FINDINGS

The findings and interpretation of the data for the SSI 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 updated site geology, hydrogeology, analytical results of soil gas sampling and 2003 soil/groundwater samples. Previously collected sample data is also used to provide an overall description of current conditions.

3.1 June 2003 Soil Gas Laboratory Analysis

The laboratory analysis was performed by CAS for the targeted VOCs of concern: TCE, cis-DCE, trans-DCE and Vinyl Chloride via U.S. EPA Method TO-15. Detection limits varied between the Summa Canisters, likely due to variations in the ability of air to flow into the screened interval and the resulting variations in soil gas quantity collected at each test point.

The laboratory analysis on the soil gas analysis detected chlorinated VOCs in 2 of the 10 soil gas samples, SG-102 and SG-104. TCE was detected in the SG-104 sample at 12 PPPV, equivalent to 65 $\mu G/M^3$. The analysis detected the presence of TCE in the SG-102 sample at a concentration of 0.30 PPPV, equivalent to 1.6 $\mu G/M^3$.

All remaining results for VOCs in the other 8 samples were less than the detection limits. The CAS analytical report on the soil gas samples is provided as Appendix 3. The laboratory analyses on the soil gas samples are summarized in Table 4.

3.2 Updated Site Hydrogeology Summary

A summary of the site geological characteristics was included in the April 2003 Site Investigation Report (2002 field work). The July 2003 additional monitoring well drilling program encountered the same unconsolidated deposits described in the April 2003 SI report.

All subsurface deposits encountered during the 2003 SSI field work consisted of unconsolidated overburden material, representing three distinct units and a thin layer of fill/reworked native deposits. The lowermost unit encountered is a glacial till deposit. The till deposit is at least 15 feet thick. 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 from 13.5 feet to 22.3 feet below ground surface, depending on location.

The July 2003 field work continued to show that the uppermost water-bearing unit at the subject parcel occurs within the alluvial sand and gravel unit under unconfined conditions. 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 through horizontal flow from an up-gradient source and infiltration of precipitation

All monitoring wells had water levels recorded on July 22, 2003. Levels for the previously installed 15 wells were also recorded in 2002 (August, October and December 2002) 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 depths to water measurements and equivalent groundwater elevations (relative to mean sea level) for the July 2003 and for the three events from 2002 are summarized in Table 4. Monitoring Well Depth Gauging and Development Forms are provided as Appendix 2.

TABLE 3
JUNE 2003 SOIL GAS ANALYSIS SUMMARY

Sample	Volume Analyzed	Trichloroethene	trans-DCE	cis-DCE	Vinyl Chloride
SG-101	1.00 Liter	ND, <3.4 PPPV ND, <18 µG/M³	ND,<4.6 PPPV ND, <18 µG/M³	ND,<4.6 PPPV ND, <18 µG/M³	ND, <7.1 PPPV ND, <18 µG/M³
SG-102	0.50 Liter	**0.30 PPPV** **1.6 µG/M³**	ND,<0.36 PPPV ND, <1.4 µG/M³	ND,<0.36 PPPV ND, <1.4 µG/M³	ND, <0.56 PPPV ND, <1.4 µG/M³
SG-103	0.50 Liter	ND, <0.26 PPPV ND, <1.4 µg/m³	ND,<0.36 PPPV ND, <1.4 µg/m³	ND,<0.36 PPPV ND, <1.4 µg/m³	ND, <0.56 PPPV ND, <1.4 µg/m³
SG-104	0.50 Liter	**12 PPPV** **65 µg/m³**	ND,<0.36 PPPV ND, <1.4 µg/m³	ND,<0.36 PPPV ND, <1.4 µg/m³	ND, <0.55 PPPV ND, <1.4 µg/m³
SG-105	0.50 Liter	ND, <0.26 PPPV ND, <1.4 µg/m³	ND,<0.36 PPPV ND, <1.4 µg/m³	ND,<0.36 PPPV ND, <1.4 µg/m³	ND, <0.56 PPPV ND, <1.4 µg/m³
SG-106	0.50 Liter	ND, <0.74 PPPV ND, <4.0 µg/m³	ND,<1.0 PPPV ND, <4.0 µg/m³	ND,<1.0 PPPV ND, <4.0 µg/m³	ND, <1.5 PPPV ND, <4.0 µg/m³
SG-107	0.50 Liter	ND, <1.3 PPPV ND, <7.0 µg/m³	ND,<1.8 PPPV ND, <7.0 µg/m³	ND,<1.8 PPPV ND, <7.0 µg/m³	ND, <2.7 PPPV ND, <7.0 µg/m³
SG-108	0.50 Liter	ND, <0.26 PPPV ND, <1.4 µG/M³	ND,<0.36 PPPV ND, <1.4 µG/M³	ND,<0.36 PPPV ND, <1.4 µG/M³	ND, <0.55 PPPV ND, <1.4 µG/M³
SG-109	0.50 Liter	ND, <0.23 PPPV ND, <1.2 µG/M³	ND,<0.31 PPPV ND, <1.2 µG/M³	ND,<0.31 PPPV ND, <1.2 µG/M³	ND, <0.49 PPPV ND, <1.2 µG/M³
SG-110	0.50 Liter	ND, <0.27 PPPV ND, <1.4 µG/M³	ND,<0.36 PPPV ND, <1.4 µG/M³	ND,<0.36 PPPV ND, <1.4 µG/M³	ND, <0.56 PPPV ND, <1.4 µG/M³
Method Blank	1.00 Liter	ND, <0.093 PPPV ND, <0.50 µG/M³	ND,<0.13 PPPV ND, <0.50 µG/M³	ND,<0.13 PPPV ND, <0.50 µG/M³	ND, <0.20 PPPV ND, <0.50 µG/M³
Method Blank	1.00 Liter	ND, <0.093 PPPV ND, <0.50 µG/M³	ND,<0.13 PPPV ND, <0.50 µG/M³	ND,<0.13 PPPV ND, <0.50 µG/M³	ND, <0.20 PPPV ND, <0.50 µG/M³

Results are expressed as Method Reporting Limit per sample, which varied between Summa Canisters
ND = Not Detected, results below Laboratory Reporting limit for each individual sample
ppvV = Micrograms per cubic meter
µG/M³ = Micrograms per cubic meter
TCE = Trichloroethene
cis DCE = cis-1,2-Dichloroethene
trans DCE = trans-1,2-Dichloroethene

3.3 2003 Groundwater Flow Regime

Depth to groundwater measurements and water table measurements for monitoring conducted in July 2003 and also for events conducted in 2002 are summarized in Table 4.

Equipotential lines representing areas of equal water table elevation were prepared using the groundwater elevations established for the 19 monitoring wells. Groundwater flow is estimated at right angles to the equipotential lines.

The July 2003 measurements indicated that the groundwater at the subject property to be flowing in a northerly direction. The average depth to groundwater was approximately 8.87 feet below ground surface. Depths varied from 5.05 feet at MW-10 to 11.31 feet at MW-7.

The presence of Thatcher Creek to the west of the study site may alter the groundwater flow regime. The July 2003 data indicated that in the vicinity of MW-18, Thatcher brook may be serving as a recharge area, with groundwater flowing from the river bed into the local aquifer. This groundwater recharge may have a limited effect in diverting groundwater flow away from Thatcher Brook to a more northeasterly direction

The SI investigation included obtaining water measurements in August, October and December 2002. These monitoring events showed a similar northerly flow pattern consistent with the July 2003 flow pattern. The July 2003 average water table surface (including only the 15 wells installed in 2002) was lower than all 3 sets of measurements obtained in 2002. The July 2003 water table surface was approximately 0.29 feet lower than the August 2002 event, 0.40 feet lower than the October 2002 event and 0.86 feet lower than the December 2002 event.

Hydraulic gradients and hydraulic conductivity values were calculated for the study area as part of the 2002 Site Investigation. In 2002 the average hydraulic gradient in the down-gradient direction varied from 0.028 feet/foot to 0.0241 feet/foot along the north-south B-B^{1} geologic cross section. 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 changes across the site, groundwater flow velocities will show variability.

TABLE 4
SUMMARY OF DEPTH TO WATER AND GROUNDWATER TABLE ELEVATIONS

Well #	Elevation TOC	Depth to Water 07/22/03	Water Table Elevation 07/22/03	Depth to Water 12/10/02	Water Table Elevation 12/10/02	Depth to Water 10/17/02	Water Table Elevation 10/17/02	Depth to Water 08/28/02	Water Table Elevation 08/28/02
MW-1 [a]	778.23	6.46	771.77	5.49	772.74	5.99	772.24	6.24	771.99
MW-2 [a]	778.08	6.42	771.66	5.28	772.80	5.75	772.33	5.96	772.12
MW-3 [a]	778.38	6.83	771.55	5.72	772.66	6.23	772.15	6.42	771.96
MW-4 [a]	778.43	7.94	770.49	7.07	771.36	8.06	770.37	7.95	770.48
MW-5 [a]	778.61	11.17	767.44	10.69	767.92	10.97	767.64	10.79	767.82
MW-6 [b]	781.10	13.32	767.78	13.18	767.92	13.44	767.66	13.33	767.77
MW-7 [b]	780.94	13.48	767.46	13.12	767.82	13.33	767.61	13.23	767.71
MW-8 [b]	781.33	9.76	771.57	8.60	772.73	9.10	772.23	9.36	771.97
MW-9 [b]	782.61	9.91	772.70	8.30	774.31	9.08	773.53	9.25	773.36
MW-10 [b]	780.02	7.61	772.41	6.21	773.81	6.70	773.32	7.09	772.93
MW-11 [a]	778.58	6.83	771.75	5.90	772.68	6.42	772.16	6.61	771.97
MW-12 [a]	778.50	7.40	771.10	6.56	771.94	7.00	771.50	7.23	771.27
MW-13 [a]	778.39	7.66	770.73	6.73	771.66	7.07	771.32	7.28	771.11
MW-14 [a]	778.43	10.17	768.26	9.54	768.89	9.93	768.50	10.04	768.39
MW-15 [a]	778.38	70.73	767.65	10.37	768.01	10.60	767.78	10.51	767.87
MW-16 [b]	780.43	12.82	767.61	NA	NA	NA	NA	NA	NA
MW-17 [b]	779.85	12.43	767.42	NA	NA	NA	NA	NA	NA
MW-18 [a]	776.39	9.64	766.75	NA	NA	NA	NA	NA	NA
MW-19 [a]	774.82	9.42	765.40	NA	NA	NA	NA	NA	NA

All elevations are Relative to Mean Sea Level
a: These monitoring wells are flush-to-grade
b: These monitoring wells extend above ground surface and are protected with steel protective piping
NA: Not Applicable. Monitoring wells MW-16, MW-17, MW-18 and MW-18 installed in July 2003
TOC = Top of PVC Casing, relative to mean sea level.
MW-19 was removed following collection of samples on July 23, 2003

3.4 Laboratory Analysis Summary, 2003 Soil Samples

The complete laboratory analytical reporting package and Chain-of-Custody forms for the soil samples are provided as Appendix 4.

Chlorinated VOCs were detected in all four soil samples (and the duplicate sample) from the July 2003 drilling program that were submitted for laboratory analysis. A summary of the VOC laboratory analytical results on soil samples is presented in Table 5. The soil laboratory analytical reporting package and chain-of-custody forms are provided in Appendix 4.

The chlorinated compounds detected in soil samples consisted of Trichloroethene (TCE) and cis-Dichloroethene (cis-DCE). TCE was detected in soil samples from three wells, with a maximum concentration of 150 µG/KG (110 PPB) detected in the sample from boring MW- 18 (16' - 18' interval). TCE was not detected in the soil sample collected from MW-16.

The VOC cis-DCE was detected in all five SSI test boring soil samples, with a maximum concentration of 380 µG/KG (380 PPB) detected in the soil sample from MW-18.

No other VOCs were detected in the July 2003 soil samples. Previous sampling at the subject parcel detected trans-DCE and vinyl chloride, chlorinated VOCs produced by the degradation and weathering of TCE.

3.5 Laboratory Analysis Summary, 2003 Groundwater Samples

Validated results on the laboratory analysis performed on the groundwater samples are presented in Table 6. The laboratory analytical reporting package and chain-of-custody forms on the groundwater samples are provided as Appendix 4.

Chlorinated VOCs were detected in the groundwater samples collected in July 2003 from 16 of the 19 monitoring wells. The distribution of Chlorinated VOCs in groundwater is discussed in Section 4.0.

The chlorinated VOCs detected in the July 2003 groundwater samples consisted of TCE, cis-DCE, trans-DCE and vinyl chloride. The VOC cis-DCE was the most prevalent, detected in groundwater samples from 15 monitoring wells, with a maximum concentration of 19,000 µG/L (19,000 PPB) detected in the groundwater sample from MW-11.

TCE was detected in groundwater samples from 11 wells, with a maximum concentration of 15,000 µG/L (15,000 PPB) detected in the groundwater sample from well MW-11.

Trans-DCE was detected in groundwater samples from 7 wells, with a maximum concentration of 120µG/L (120 PPB) detected in the groundwater sample from MW-11.

Vinyl chloride was detected in groundwater samples from 5 wells, with a maximum concentration of 54 µG/L (49 PPB) detected in the groundwater sample from MW-1.

Acetone and Methylene chloride were detected in several groundwater samples. 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. The DUSR report deleted these compounds and they are not inferred as reflecting the presence of these compounds at the study site.

TABLE 5
VALIDATED LABORATORY ANALYSIS SUMMARY, 2003 SOIL SAMPLES
Boring/Monitoring Well Number, Sample Collection Interval and Sample Date

VOC Compound	NYSDEC Recommended Cleanup Objective	MW-16 18' - 20' 07/10/03	MW-17 20' - 22' 07/09/03	MW-18 16' - 18' 07/10/03	MW-19 12' - 14' 07/11/03	MW-19 Dup 12' - 14' 07/11/03
Trichloroethene	0.7 PPM (700 PPB)	ND	26	150 J	14 J	37 J
cis-1,2-Dichloroethene	0.3 PPM (300 PPB)	10	200	380	2 J	8J
trans-1,2-Dichloroethene	0.3 PPM (300 PPB)	ND	ND	ND	ND	ND
Vinyl chloride	0.2 PPM (200 PPB)	ND	ND	ND	ND	ND
Acetone	0.2 PPM (200 PPB)	ND	ND	ND	ND	ND
Benzene	0.06 PPM (6 PPB)	ND	ND	ND	ND	ND
Bromodichloromethane		ND	ND	ND	ND	ND
Bromoform		ND	ND	ND	ND	ND
Bromomethane		ND	ND	ND	ND	ND
2-Butanone	0.3 PPM (300 PPB)	ND	ND	10 J	ND	ND
Carbon Tetrachloride	0.6 PPM (600 PPB)	ND	ND	ND	ND	ND
Carbon Disulfide	2.7 PPM (2700 PPB)	ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND
Chlorobenzene	1.7 PPM (1700 PPB)	ND	ND	ND	ND	ND
Chloroethane	1.9 PPM (1900 PPB)	ND	ND	ND	ND	ND
Cyclohexane		ND	ND	ND	ND	ND
Chloroform	0.3 PPM (300 PPB)	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane		ND	ND	ND	ND	ND
Dibromochloromethane		ND	ND	ND	ND	ND
Dichlorodifluoromethane		ND	ND	ND	ND	ND
1,2-Dibromoethane		ND	ND	ND	ND	ND
1,2-Dichlorobenzene	7.9 PPM (7900 PPB)	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	1.6 PPM (1600 PPB)	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	8.5 PPM (8500 PPB)	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.2 PPM (200 PPB)	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.3 PPM (300 PPB)	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.4 PPM (400 PPB)	ND	ND	ND	ND	ND

Results are µG/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 5, Continued
VALIDATED LABORATORY ANALYSIS SUMMARY,2003 SOIL SAMPLES
Boring/Well Number, Sample Collection Interval and Sample Date

VOC Compound	NYSDEC Recommended Cleanup Objective	MW-16	MW-17	MW-18	MW-19	MW-19 Dup
		18' - 20'	20' - 22'	16' - 18'	12' - 14'	12' - 14'
		07/10/03	07/09/03	07/10/03	07/11/03	07/11/03
1,2-Dichloropropane		ND	ND	ND	ND	ND
cis-1,2-Dichloropropene		ND	ND	ND	ND	ND
trans-1,2-Dichloropropene		ND	ND	ND	ND	ND
Ethylbenzene	5.5 PPM (5500 PPB)	ND	ND	ND	ND	ND
2-Hexanone		ND	ND	ND	ND	ND
Isopropylbenzene	5.0 PPM (500 PPB)	ND	ND	ND	ND	ND
Methyl acetate		ND	ND	ND	ND	ND
Methylene Chloride	0.1 PPM (100 PPB)	ND	ND	ND	ND	ND
Methyl tert butyl ether	0.12 PPM (120 PPB)	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1.0 PPM (1000 PPB)	ND	ND	ND	ND	ND
Methylcyclohexane		ND	ND	ND	ND	ND
Styrene		ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	0.6 PPM (600 PPB)	ND	ND	ND	ND	ND
Tetrachloroethene	1.4 PPM (1400 PPB)	ND	ND	ND	ND	ND
Toluene	1.5 PPM (1500 PPB)	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	3.4 PPM (3400 PPB)	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.8 PPM (800 PPB)	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluor		ND	ND	ND	ND	ND
Trichlorofluoromethane		ND	ND	ND	ND	ND
total Xylenes	1.2 PPM (1200 PPB)	ND	ND	ND	ND	ND
n-Propylbenzene	14 PPM (14000 PPB)	ND	ND	ND	ND	ND
P-Cymene		ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	13 PPM (13000 PPB)	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3.3 PPM (3300 PPB)	ND	ND	ND	ND	ND
n-Butylbenzene		ND	ND	ND	ND	ND
sec-Butylbenzene		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
VALIDATED LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES

Groundwater Monitoring Well and Sampling Date

VOC Compound	NYSDEC Class GA Standard TOGS 1.1.1	MW-1 07/23/03	MW-2 07/22/03	MW-3 07/22/03	MW-4 07/22/03	MW-5 07/22/03	MW-6 07/22/03	MW-7 07/22/03	MW-8 07/22/03
Trichloroethene	5.0 uG/L	**1,100**	ND	ND	ND	**7.3**	ND	**22**	ND
cis-1,2-Dichloroethene	5.0 uG/L	**1,700**	**7.1**	3.1 J	1.8 J	ND	**330**	**510**	ND
trans-1,2-Dichloroethene	5.0 ugL	**25**	ND	ND	ND	ND	3.4 J	2.2 J	ND
Vinyl chloride	2.0 uG/L	**54**	ND	ND	ND	ND	ND	ND	ND
Acetone	25.0 u	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

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
BOLD Values = Exceed NYSDEC Class GA Groundwater Standards

TABLE 6 Continued
VALIDATED LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES
Groundwater Monitoring Well and Sampling Date

VOC Compound	NYSDEC Class GA Standard TOGS 1.1.1	MW-1 07/23/03	MW-2 07/22/03	MW-3 07/22/03	MW-4 07/22/03	MW-5 07/22/03	MW-6 07/22/03	MW-7 07/22/03	MW-8 07/22/03
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: 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	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-trifluorethane	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:		2,879	7	3 J	2 J	7	333 J	534 J	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 6 Continued
VALIDATED LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES
Groundwater Monitoring Well and Sampling Date

VOC Compound	NYSDEC Class GA Standard TOGS 1.1.1	MW-9 07/22/03	MW-10 07/22/03	MW-11 07/23/03	MW-12 07/23/03	MW-13 07/23/03	MW-14 07/23/03	MW-15 07/23/03	MW-16 07/23/03
Trichloroethene	5.0 uG/L	ND	ND	**15,000**	**9,100**	**16**	**74**	**56**	ND
cis-1,2-Dichloroethene	5.0 uG/L	ND	ND	**19,000**	**3,000**	**15**	**66**	**200**	**38**
trans-1,2-Dichloroethene	5.0 ugL	ND	ND	**120**	**23.58 J**	ND	ND	1.5 J	ND
Vinyl chloride	2.0 uG/L	ND	ND	**49 J**	**22.13 J**	ND	ND	ND	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	**8.2 J**	ND	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
Bold Values = Exceed NYSDEC Class GA Groundwater Standards

TABLE 6 Continued
VALIDATED LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES
Groundwater Monitoring Well and Sampling Date

VOC Compound	NYSDEC Class GA Standard TOGS 1.1.1	MW-9 07/22/02	MW-10 07/22/03	MW-11 07/23/03	MW-12 07/23/03	MW-13 07/22/03	MW-14 07/23/03	MW-15 07/23/03	MW-16 07/23/03
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: 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	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-trifluorethane	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:		ND	ND	34,169 J	12,153 J	31 J	140	258 J	38.0

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

TABLE 6 Continued
VALIDATED LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES

Groundwater Monitoring Well and Sampling Date

VOC Compound	NYSDEC Class GA Standard TOGS 1.1.1	MW-17 07/23/03	MW-18 07/23/03	MW-19 07/23/03	MW-19D 07/23/03	FB (MW-12) 07/23/03	TB 07/23/03
Trichloroethene	5.0 uG/L	**320**	**15**	**7**	**7.1**	ND	ND
cis-1,2-Dichloroethene	5.0 uG/L	**490**	140	3 J	2.8 J	ND	ND
trans-1,2-Dichloroethene	5.0 ugL	3.82	ND	ND	ND	ND	ND
Vinyl chloride	2.0 uG/L	3.72	3.7 J	ND	ND	ND	ND
Acetone	25.0 uG/L	ND	ND	ND	ND	ND	ND
Benzene	1.0 uG/L	ND	ND	ND	ND	ND	ND
Bromodichloromethane	50.0 uG/L	ND	ND	ND	ND	ND	ND
Bromoform	50.0 uG/L	ND	ND	ND	ND	ND	ND
Bromomethane	5.0 uG/L	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50.0 uG/L	ND	ND	ND	ND	ND	ND
Carbon Disulfide	60.0 uG/L	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5.0 uG/L	ND	ND	ND	ND	ND	ND
Chloromethane (methyl chloride)	5.0 uG/L	ND	ND	ND	ND	ND	ND
Chlorobenzene	5.0 uG/L	ND	ND	ND	ND	ND	ND
Chloroethane	5.0 uG/L	ND	ND	ND	ND	ND	ND
Cyclohexane (hexamethylene)	none: Table 3	ND	ND	ND	ND	ND	ND
Chloroform	7.0 uG/L	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	0.04 uG/L	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5.0 uG/L	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5.0 uG/L	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (ethylene dibromide)	6 x 10-4 uG/L	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3.0 uG/L	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3.0 uG/L	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3.0 uG/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.0 uG/L	ND	ND	ND	1.4 J	ND	ND
1,2-Dichloroethane	0.6 uG/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5.0 uG/L	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1.0 uG/L	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
Bold Values = Exceed NYSDEC Class GA Standards

TABLE 6 Continued
VALIDATED LABORATORY ANALYSIS SUMMARY, GROUNDWATER SAMPLES
Groundwater Monitoring Well and Sampling Date

VOC Compound	NYSDEC Class GA Standard TOGS 1.1.1	MW-17 07/23/03	MS-18 07/23/03	MW-19 07/23/03	MW-19D 07/23/03	FB (MW-12) 07/23/03	MW-TB 07/23/03
2-Hexanone	50.0 uG/L	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5.0 uG/L	ND	ND	ND	ND	ND	ND
Methyl acetate	none: Table 3	ND	ND	ND	ND	ND	ND
Methylene chloride	5.0 uG/L	ND	ND	ND	ND	ND	ND
Methyl tert butyl ether	10.0 uG/L	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	none: Table 3	ND	ND	ND	ND	ND	ND
Methylcyclohexane	NA: Not Listed	ND	ND	ND	ND	ND	ND
Styrene	5.0 uG/L	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5.0 uG/L	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5.0 uG/L	ND	ND	ND	ND	ND	ND
Toluene	5.0 uG/L	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5.0 uG/L	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5.0 uG/L	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.0 uG/L	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluorethane	5.0 uG/L	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5.0 uG/L	ND	ND	ND	ND	ND	ND
Total Xylenes	5.0 uG/L	ND	ND	ND	ND	ND	ND
N-Propylbenzene	5.0 uG/L	ND	ND	ND	ND	ND	ND
p-Cymene (4-Isopropyltoluene)	5.0 uG/L	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5.0 uG/L	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	5.0 uG/L	ND	ND	ND	ND	ND	ND
N-Butylbenzene	5.0 uG/L	ND	ND	ND	ND	ND	ND
Sec-Butylbenzene	5.0 uG/L	ND	ND	ND	ND	ND	ND
TOTAL DETECTED VOCS:		818 J	159 J	10 J	11 J	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

3.6 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 assesses the usability of the complete data set of the analytical reports generated by Severn-Trent Laboratories for this investigation and resulting conclusions of the data set validity. The complete DUSR report, prepared by Data Validation Services, is included as Appendix 5.

In general the data was summarized as being usable as reported or with minor edit or qualification as estimated. The major points identified by Data Validation Services during the course of the data usability review are as follows:

- Aqueous accuracy and precision evaluations for field duplicate on groundwater sample W072303EJ-19 (MW-19) and for matrix spikes on groundwater sample W072303EJ-17 (MW-17) showed very good recoveries and correlations.

- Soil accuracy and precision evaluations for the field duplicate on soil sample S071103EJ-MW19 12-14 (MW-19) and for matrix spikes on soil sample S071003EJ-MW18 16-18 (MW-18) were also acceptable, with the exception of the analyte TCE. The field duplicate correlation for that compound exceeds the limit of $\pm$ 2X CRDL (at 14 PPB and 47 PPB), and the matrix spike recoveries, at 52% and 46%, are below the recommended limit of 62%. The results for TCE in soil sample S071103EJ-MW19 12-14 (MW-19), its field duplicate, and S071003EJMW18 16-18 (from MW-18) have been qualified estimated ("J").

- The laboratory submissions provided an addendum for the undiluted aqueous sample analyses on groundwater samples. These were incorporated into the original data package provided by STL. The aqueous field blank showed a variance between the bottle label and the custody entry (on the Chain of Custody). This was resolved at sample receipt at the STL facility.

- Surrogate and internal standard recoveries were acceptable for all project samples. NYSDEC ASP 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 holding blanks, results for methylene chloride and acetone detected in the soil samples are considered external contamination, and edited to non detection ("U") at either the CRDL, or originally reported concentration, whichever is greater. Due to the presence in the associated equipment blank, the detected result for chloroform in aqueous sample W072303EJ-19D (the duplicate groundwater sample from MW-19) is considered external contamination, and edited to non detection ("U") at the CRDL.

- Calibrations standards were evaluated for the samples reported by ASP processing, and show acceptable responses not adversely affecting reported results.

4.0 INTERPRETATION OF SUPPLEMENTAL SITE INVESTIGATION DATA

The findings, based on the SSI activities at the Gowanda Day Habilitation Center property are summarized below.

4.1 Predicted Off-Site Indoor Air Concentrations for TCE

To evaluate potential indoor air concentrations that may propagate from VOCs detected in the north property line soil gas samples, modeling was conducted using the U.S. EPA User's Guide for the Johnson and Ettinger Advanced Model for Subsurface Vapor Intrusion into Buildings. The U.S. EPA User's Guide for Evaluating Subsurface vapor Intrusion into Buildings, June 19, 2003 version of the model and user guide was also used.

The Johnson and Ettinger model is a one-dimensional analytical solution to convective and diffusive vapor transport into indoor spaces and provides an estimated attenuation coefficient that relates the vapor concentration of the contamination source to the indoor space.

From a conceptual point of view, the Johnson and Ettinger model provides a theoretical description of the processes involved in vapor intrusion from subsurface soils or groundwater into indoor structures. A combination of modeling and sampling methods are factored to reduce the uncertainty of calculated indoor air concentrations.

Typically this involves field methods for measuring soil gas very near or below an actual structure. It should be noted that soil gas sampling results outside the footprint of the building may or may not be representative of the soil gas concentrations directly below the structure. For solid building floors in contact with the soil (concrete slabs), the soil gas directly beneath the floor may be considerably higher that that adjacent to the structure. This is typically due to a vapor pooling effect underneath the near impermeable floor.

All vapor directly below the areal extent of the building is presumed to enter the structure. This soil gas concentration, along with the building ventilation rate and the soil gas flow rate into the building, will determine the indoor concentration. When using the soil gas models no analysis has been made concerning the source of contamination. Therefore, the calculated indoor concentration is assumed to be steady state.

In order to use the soil gas models, soil gas concentrations must be measured at one or more depths below ground surface. The EPA guidance for conducting soil gas samples for estimating indoor air quality advises that samples be collected directly under building slabs or basement floors when possible. When sampling directly beneath the floor is not possible, enough samples adjacent to the structure should be taken to adequately estimate an average concentration based on reasonable spatial and temporal scales (pp 64, June 19, 2003 User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings).

Active whole-air sampling methods and active or passive sorbent sampling methods are usually employed. Whole-air sampling is typically accomplished using an evacuated Summa or equivalent canister. Summa canisters were used to collect the June 2003 soil gas samples.

The laboratory analysis performed on the north property line subsurface soil gas samples collected in June 2003 detected TCE in two samples. In the sample from SG-104, TCE was detected at a concentration of 65 $\mu G/M^3$ (equivalent to 12 PPPV). Soil gas test point SG-104 was placed adjacent to monitoring well MW-17. In the soil gas sample from SG-102, TCE was detected at a concentration of 1.6 $\mu G/M^3$ (equivalent to 0.30 PPPV). Soil gas test point SG-102 was placed 12 feet northeast of monitoring well MW-7. Monitoring well MW-17 is located adjacent to soil gas point SG-104. The 2003 sampling detected TCE in the groundwater sample adjacent to SG-104 at a concentration of 320 PPB, and cis-DEC at a concentration of 490 PPB.

Parameters used for Indoor Air Quality Modeling

- Parameter = Trichloroethene, CAS 79016
- Model Default Variables: Reset to default setting for a basement setting
- Stratum A, B & C: Silt Loam, based on Cattaraugus County Soil Survey, and field data
- Stratum soil dry bulk density: 1.5 G/CM^3
- Stratum soil total porosity, n^v: 0.44 dimensionless
- Stratum soil water-filled porosity: 0.18 cm^3/cm^3
- Depth below grade to bottom of enclosed space floor: 183 centimeters (6.0 feet)
- Soil gas sampling depth, below grade 198 centimeters (6.5 feet)
- Average soil temperature: 10 degrees centigrade
- Enclosed space floor thickness L_{crack} = 10 centimeters (default setting)
- Soil-building pressure differential: 40 $g/cm\text{-}s^2$
- Indoor air exchange rate, ER = 0.25/hr
- Average vapor flow rate into building, $Q/_{soil}$ = 5 liters/minute (default setting)

No sub-slab soil gas sampling was conducted at the residences north of the Day Habilitation Center property. No outside soil gas samples were collected adjacent to the residences. The soil gas samples submitted for analysis were collected at the Day Habilitation Center property line. The residential buildings along the south side of Torrance Place are located approximately 46 to 76 feet north of the Day Habilitation Center property line.

The Johnson & Ettinger model was used to estimate potential indoor air concentrations and risk potential at sample points SG-104 and SG-102. The results of the indoor air modeling are summarized in Table 7. The model spreadsheets and calculations are provided as Appendix 6.

The model-predicted indoor building concentration ($C_{building}$) for TCE at a hypothetical building at SG-104 was determined to be 0.184 $\mu G/M^3$ ($1.84 \times 10^{-1} \mu G/M^3$). At SG-102, the model-predicted indoor building concentration for TCE was determined to be 0.00085 $\mu G/M^3$ ($8.5 \times 10^{-4} \mu G/M^3$). Both hypothetical building TCE concentrations are within the NYSDOH 75% percentile of results less than 1 $\mu G/M^3$. The model predicted vapor concentrations are also less than the reported model detection limit of 0.25$\mu G/M^3$.

The Johnson and Ettinger soil gas screening model predicted that indoor air concentrations of TCE at hypothetical buildings located at test points SG-102 and SG-104 would be less than the measured TCE concentrations in the two soil gas samples. The predicted indoor values (based

on an infinite source for building concentration, $C_{building}$) have been compared to unpublished NYSDOH study of indoor air sampling at 100 homes. The NYSDOH study reportedly included TCE, cis-DCE and Vinyl Chloride. For TCE, 75% of the residential indoor air results were reported as less than 1 $\mu G/M^3$, with a method detection limit of 0.25 $\mu G/M^3$. TCE was reportedly not detected in 81% of the indoor samples.

Table 7
Indoor Air Modeling Summary

Soil Gas Test Point	Measured Soil Gas TCE Concentration[1]	Model predicted Infinite Vapor Building Concentration[2]	Incremental Risk and Hazard Quotient from Vapor Intrusion [3]	NYSDOH Indoor Air Quality value for TCE[4]
SG-104	65 $\mu G/M^3$ = 12 PPPV	0.184 $\mu G/M^3$	Carcinogen = 8.3×10^{-6} Non carcinogen Hazard quotient = 4.4×10^{-3}	75% results less than 1 $\mu G/M^3$ Detection Limits = 0.25$\mu G/M^3$
SG-102	1.6 $\mu G/M3$ = 0.30 PPPV	0.00085 $\mu G/M^3$	Carcinogen = 3.8×10^{-8} Non carcinogen Hazard quotient = 2.0×10^{-5}	TCE was not detected in 81% of indoor samples

1 = TCE = Trichloroethene
$\mu G/M^3$ = micrograms per cubic meter PPPV = Parts per billion per volume
2 =Model predicted source building concentration = $C_{building}$ value, Johnson & Ettinger SG-Advanced Model
3= Incremental Risk calculations, Johnson & Ettinger SG-Advanced Model, from vapor intrusion to indoor air.
4= NYSDOH unpublished database of testing on 100 indoor air sampling values

4.2 Updated Hydrogeologic Setting

A description of the hydrogeologic setting at the Gowanda Day Habilitation Center was summarized in the Bergmann April 2003 Site Investigation Report.

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/fluvial-type depositional regime, consisting of fine gravel, sand, and silt.
- Flood plain deposits consisting of fine sand, silt, and clay.

The April 2003 SI report included two cross-sections that were prepared utilizing information gathered from the installation of the 28 test borings and 15 groundwater-monitoring wells in July 2002. Cross-section A-A^{1} presented subsurface overburden characteristics in an easterly-westerly direction. Cross-section B-B^{1} presented the subsurface characteristics in a southerly to northerly direction. The B-B^{1} cross-section also generally follows the shallow water table surface through the site.

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, updated using data obtained during the July 2003 SSI well installation program, is shown on Figure 4.

For the 2003 SSI an additional geologic cross-section was prepared, designated C-C^{1}. This section was prepared in an easterly-westerly direction along the subject parcel-northern property line. Geologic cross-section C-C^{1} is provided as Figure 5 with this report.

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 boring logs for monitoring wells MW-17 and MW-18, installed in July 2003 as part of the SSI field work, indicate that the trough extends to Torrance Place. 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. Revised mapping of the top of the glacial till surface, incorporating subsurface data gathered during the July 2003 field work, is included as Figure 4 to this report. 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 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.

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 and flood plain deposits approximately 2,400 feet north of the subject parcel.

The 2002 SI report determined hydraulic conductivity for groundwater monitoring wells range from 1.001 x 10^{-3} to 1.403 x 10^{-3} cm/sec (2.838 to 3.978 ft/day). Groundwater seepage velocity in the direction of flow was estimated at 0.281 to 0.327 feet per day based on aquifer testing at the monitoring wells.

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 reduces such an effect.

4.3 2003 Contaminant Characterization

During the 2003 SSI a total of 25 discrete samples were collected for laboratory analysis. This included 5 soil samples and 20 groundwater samples. This total includes duplicate samples but does not include field blanks or trip blanks.

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.

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. Vershcueren, "Handbook of Environmental Data on Organic Chemicals", 2nd Ed, 1983.

The chlorinated VOC - TCE was the most commonly detected compound. Biotic decay products cis-1,2,Dichloroethene, trans-1,2-Dichloroethene and Vinyl Chloride were also detected. These 4 chlorinated VOCs are the contaminants of concern at the study site. 1,1-Dichloroethene was detected in 2 groundwater samples from MW-11 and MW-12. This VOC is also a decay/daughter product from TCE or related chlorinated VOCs. 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 10 compares the 2002 and 2003 VOC results.

TABLE 9
FREQUENCY AND RANGE OF DETECTED VOCs
DETECTED DURING THE 2003 SSI

Chlorinated VOC	Frequency Detected/Total Samples	Concentration Range (PPB)	Solubility in Water
2003 Test Boring Soil Samples			
Trichloroethene	4/5 samples	150 PPB - 14 PPB	Not applicable
cis-1,2-Dichloroethene	5/5 samples	380 PPB - 2 PPB	Not applicable
Trans-1,2-Dichloroethene	0/5 samples	All Non Detect	Not applicable
Vinyl Chloride	0/5 samples	All Non Detect	Not applicable
2003 Groundwater Samples			
Trichloroethene	12/20 samples	15,000 PPB - 7.0 PPB	1,100 PPM (1,100,000 PPB)
cis-1,2-Dichloroethene	16/20 samples	19,000 PPB - 1.8 PPB	800 mG/L (800,000 PPB)
Trans-2,3-Dichloroethene	7/20 samples	120 PPB - 1.5 PPB	600 mG/L (600,000 PPB)
Vinyl Chloride	5/20 samples	54 PPB - 3.7 PPB	1.1 mG/L (1,100 PPB)
1,1-Dichloroethene	2/20 samples	8.2 PPB - 1.4 PPB	100 mG/L (100,000 PPB)

4.4 Nature and Extent of Contamination

Measurable concentrations of the chlorinated solvent TCE were detected in soil and groundwater samples collected from the Day Habilitation Center site. Associated breakdown products of TCE, consisting of cis-DCE, 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 various locations.

The distributions of the detected chlorinated VOCs are shown on attached posting maps. Figure 7 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 8 shows a posting of detected chlorinated VOCs in the groundwater samples, with detected concentrations plotted by each monitoring well.

The occurrence of chlorinated VOCs - TCE and various decay/daughter compounds 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.

TABLE 10
TOTAL CHLORINATED VOCs, JULY 2003 COMPARED TO 2002
Descending order based on 2003 total VOC concentrations

Monitoring Well	Total Chlorinated VOCs July 2003	Total Chlorinated VOCs August/September 2002
MW-11	34,169.0 PPB	4,647.0 PPB
MW-12	12,100.0 PPB	12,643.0 PPB
MW-1	2,879.0 PPB	768.0 PPB
MW-17	810.0 PPB	Not installed until 2003
MW-7	534.2 PPB	450.0 PPB
MW-6	333.4 PPB	405.8 PPB
MW-15	257.5 PPB	730.0 PPB
MW-18	158.7 PPB	Not installed until 2003
MW-14	140.0 PPB	315.2 PPB
MW-16	38.0 PPB	Not installed until 2003
MW-13	31.0 PPB	315.3 PPB
MW-19	10.0 PPB	Not installed until 2003
MW-5	7.3 PPB	13.7 PPB
MW-2	7.1 PPB	22.7 PPB
MW-3	3.1 PPB	15.0 PPB
MW-4	1.8 PPB	3.8 PPB
MW-8	No VOCs detected	1.4 PPB
MW-9	No VOCs detected	4.2 PPB
MW-10	No VOCs detected	2.6 PPB

4.5 Extent of Impacted Groundwater

Based on the July 2003 groundwater laboratory analysis, an inferred groundwater contamination plume has been identified extending from the inferred source area. The plume is shown as Figure 9.

The 2003 data indicates that the area with the highest impacted groundwater to be located beneath the Day Habilitation Center building. The monitoring well with the highest total VOC concentration was MW-11, with a Total VOC value of 34,169 PPB. This well is located in the hallway just north of the former Nurses Clinic, Room 39. The monitoring well with the next highest total VOC concentration was MW-12. 12,153 PPB. This well is located in the hallway north of the south cafeteria, Room 50.
The July 2003 TCE concentrations in groundwater samples ranged from 15,000 PPB at MW-11 to non-detect in monitoring wells MW-8, MW-9 and MW-10. The highest TCE concentrations detected in the July 2003 samples were from monitoring wells MW-11 (15,000 PPB), MW-12 (9,100 PPB) and MW-1 (1,100 PPB).

The July 2003 concentrations for the chlorinated VOC cis-DCE closely followed the distribution of TCE. The highest cis-DCE concentrations were detected in monitoring wells MW-11 (19,000 PPB), MW-12 (3,000 PPB) and MW-1 (1,700 PPB). TCE breakdown products trans-DCE and Vinyl chloride were detected in groundwater samples within the area of impacted groundwater.

The July 2003 groundwater sampling analysis indicates a historical introduction of TCE had occurred at the Day Habilitation Center site, either at or near the southern portion of the building. The July 2003 groundwater analysis indicated that the area of greatest concentration is located beneath the building in the vicinity of Room 39/Room 50. This area also includes the former loading dock area extending just south of Room 50 and to the adjacent asphalt driveway near MW-1.

The July 2003 sampling and analysis indicates that the aerial extent of the contamination that exceeds 1,000 PPB (total VOCs) covers an area of approximately 10,150 square feet and is inferred to be located mostly beneath the Day Habilitation Center building's foundation, extending south to the adjacent driveway. The plume is elongated concurrent with the apparent direction of groundwater flow.

4.6 Contaminant Migration

The results of the 2003 SSI field work indicates that 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. The chemical release(s) likely occurred prior to 1982, the year that New York State Offices began occupying the building.

Comparison of the distribution of detected VOCs in test boring soil samples, both vertically and laterally to values detected in groundwater samples can assist in evaluating locations where substances were released. Postings for detected Chlorinated VOCs in soil and groundwater samples are shown on Figures 7 and 8, respectively.

The approximate extent of the greatest impact to groundwater is shown visually on Figure 9. 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.

The 2002 SSI indicated that the highest distribution of detected chlorinated VOCs in the soil samples show that the sample was obtained at a shallow depth from the boring for monitoring well MW-1. This monitoring well is located in the asphalt driveway approximately 5 feet south of the building, across from the Nurse Clinic Room 39. At this location two subsurface soil samples were collected for analyses in 2002. 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 sample collected at the water table at the (8'-10') interval, showed a lower TCE value of 3,600 PPB.

The decrease in chlorinated VOCs at MW-1 location correlating to increased depth below grade, indicated 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.

The July 2003 groundwater analysis indicates that contaminant concentrations of chlorinated VOCs disperse both to the north and to the south, with the area of highest contamination corresponding to the relatively coarse material that has filled in the trough feature scoured into the top of the glacial till surface.

The extent of the area of greatest impact to groundwater shows correlation with subsurface geologic conditions determined from test borings and shown on cross section and C-C^{I}. The highest concentration of VOCs that that has dissolved into groundwater has moved northward to beneath Room 50, decreasing in concentrations beneath the center of the building slab.

Laboratory analysis on soil and groundwater samples collected as part of this SSI indicates the presence of VOCs at off-site locations, extending to Torrance Place north of the Study Site. The extent of groundwater impacted with total VOCs at the 100 PPB level appears to extend to the south side of Torrance Place, by the access road leading to the western side of the Day Habilitation Center property (monitoring well MW-18). The extent of groundwater impacted to the 100 PPB level appears to extend a location approximately 165 feet north of the study site.

Low concentrations of VOCs were detected in the groundwater sample collected from MW-19, located approximately 175 feet north of the study site's northeastern property corner. MW-19 may be located beyond the plume of impacted groundwater emanating from the Day Habilitation Center property. It possible that MW-19 is located at the margin of the area impacted by the groundwater plume emanating from the Gowanda Electronics property (1 Industrial Place), or is located in an area where the two plumes are co-mingling.

5.0 UPDATED EXPOSURE PATHWAYS ANALYSIS & QUALITATIVE RISK ASSESSMENT

An Exposure Pathways Analysis and Qualitative Risk Assessment were previously conducted for the April 2003 SI report. The Exposure Pathways Analysis was 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

In order to identify potential exposure pathways, applicable standards, criteria and guidance (SCGs) 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:

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.

5.2 Human Exposure Pathways Analysis

The Human Exposure Pathway Analysis was performed as part of the 2002 SI report. Based on the information developed during the 2000 IAQ study, the 2000 environmental assessments and information obtained during the SI, chemical compounds of potential concern to various environmental media were identified. Compounds of potential concern were selected based on frequency of detection, range of concentrations, and potential for migration during the period of those investigations.

5.3 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 industrial operations at the facility, which occurred prior to occupancy or ownership by the OMRDD.

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. Historic site drawings and anecdotal information provided by former site personnel indicate that vehicles could drive inside the building, with parking available adjacent to loading docks.

Migration of 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 near surface areas is based on the distribution of detected TCE concentrations at test boring/Monitoring well MW-1. Laboratory analysis on two soil samples at this location showed a decrease in VOCs with depth.

Table 11 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 11
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 (without treatment) Surface soil Surface water

5.4 Off-Site Indoor Air Health Risk Summary

The Johnson & Ettinger SG-Advanced model included preparation of health risk based due to potentially carcinogenic compounds. The true risk is unlikely to be greater than the risk

predicted. Resulting risk estimates in the model are expressed in scientific notation as a probability (for example 1 x 10^{-6} for 1/1,000,000). A risk of 1 x 10^{-6} indicates that an average individual is not likely to have greater than a one in a million chance of developing cancer over 70 years as a result of site-related exposure to a given compound at a stated concentration. All risks estimated represent an "excess lifetime cancer risk", or the additional cancer risk which we all face from other causes such as cigarette smoke or exposure to ultraviolet radiation from the sun. The chance of an individual developing cancer from non-site related causes. The U.S. EPA generally acceptable risk range for site related exposure is 10^{-4} to 10^{-6}.

At SG-104, The SG-Advanced model predicted a carcinogen incremental risk from the predicted vapor intrusion to the indoor air to be 8.3 x 10^{-6}. At SG-102, the model predicted a carcinogen incremental risk to indoor air to be 3.8 x 10^{-8}. Both predicted values at the Day Habilitation Center's north property line are within the U.S. EPA acceptable risk range for site related exposure.

5.5 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 12. The scenarios involving exposure to off-site surface water and sediments were eliminated due to the nature and extent of contamination.

TABLE 12
2003 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 level where impacted ground water occurs	None
Groundwater	None: No use of groundwater	Yes: If excavation occurs to the water table	Only if groundwater is extracted. No use of groundwater identified.
Ingestion	None	Yes, but only if the soil is exposed	None
Direct Contact to Groundwater	None	Yes	Possible, from use of private basement sumps
Inhalation of Vapors	Yes	Yes	Possible: Modeling of potential chlorinated VOCs indicates low potential

5.6 2003 Human Exposure Pathway Analysis

The April 2002 SI report included a summary of human exposure pathway analysis. 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 indicating 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. Modeling of potential indoor air concentrations was conducted of hypothetical buildings located on the subject parcel's northern property line. The modeling indicated low indoor concentrations for TCE, at levels below current NYSDOH method detection limits. Risk assessments indicated values within the U.S. EPA acceptable range for on-site exposure. No actual indoor or sub-slab sampling was performed at residences along Torrance Place. Potential impact was determined based on modeling from soil gas samples collected at the Day Habilitation Center's property line and modeling efforts.

Soil gas sampling was not conducted at the residences along Torrance Place, located north of the Day Habilitation Center property. The level of impacted groundwater decreases in distance to the north, away from the inferred source area at the southern portion of the Day Habilitation Center building, as shown visually on Figures 8 and 9.

The laboratory analysis conducted on groundwater samples collected in July 2003 indicated levels of impacted groundwater at concentrations along Torrance Place below the concentrations detected at the subject property northern property line. Given the lower concentrations of impacted groundwater at Torrance Place, any resulting soil gas concentrations may also be lower than the values measured at the subject property's northern property line. Any concentrations of VOCs within buildings would also likely be lower than the values the Johnson and Ettinger SG-Advanced model predicted at the subject property's northern property line.

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.

Groundwater in the area is currently not used for drinking water. All residential dwellings are reported by local agencies as being served with municipal water. The potential for direct contact with groundwater may occur if shallow well points are used within the plume for irrigation, as basement sumps or other non-potable purposes.

6.0 CONCLUSION

The Gowanda Day Habilitation Center located at 4 Industrial Place in the Town of Persia consists of a former industrial facility renovated to office use. Presumably hazardous wastes were spilled or released near 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 a 1987-1988 building renovation.

The contaminants of concern detected during the 2003 SSI at the study site consist of the chlorinated solvent Trichloroethene (TCE) and related decay products cis-1,2-Dichloroethene, trans-1,2-Dichloroethene and Vinyl Chloride. These compounds were detected in soil and groundwater samples collected in July 2003 as part of the SSI, and were also detected in samples collected in July-September 2002 as part of the Site Investigation.

The analytical results on the groundwater samples collected in July 2003 were consistent with the August-September 2002 sampling event. No free-phase product was detected during the 2003 SSI, 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.

The July 2003 field gauging indicated that the shallow groundwater at the subject parcel is present approximately 8.9 feet below ground surface. The July 2003 shallow groundwater at the subject property is shown to be flowing in a northerly direction. The water table surface and groundwater flow direction was consistent when compared to the August, October and December 2002 surfaces.

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. A rise in the underlying glacial till appears to limit migration of groundwater and the accompanying VOCs to the east. A depression scoured into the top of the till surface is pronounced in the vicinity of MW-17 at the northern property line. This trough appears to limit migration of impacted groundwater to the east, and also appears to funnel impacted groundwater in the vicinity of MW-7 to MW-17.

The results of laboratory analysis on groundwater samples collected for the 2003 SSI continues to indicate that the area of highest impact to groundwater is located directly beneath the Gowanda Day Habilitation Center Building. The extent of the highest area of impacted groundwater was consistent with results from the 2002 groundwater sampling. Analysis on samples collected in July 2003 indicated that that area of highest impact was located beneath the southern portion of the building, in the vicinity of the former Nurses Office (Room 39 and Client Cafeteria (Room 50).

The area of highest impact, with total VOCs exceeding 1,000 PPB, is limited to an area approximately 10,150 square feet, located beneath the building. Concentrations of VOCs exist within the plume exceeding 10,000 PPB total VOCs around MW-11 and MW-12, in an area approximately 2,520 square feet. The data gathered during the SSI continues to indicate that 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 SSI detected impacted soil and groundwater at monitoring wells installed in July 2003 along Torrance Place to the north of the Day Habilitation Center property. The extent of impacted groundwater with total VOCs exceeding 100 PPB extends to the north of the Day Habilitation Center to Torrance Place. The area of impacted groundwater (total VOCs exceeding 100 PPB) is approximately 63,950 square feet. The area of impacted groundwater extends approximately 250 feet to the north of the Day Habilitation Center property. The extent of impacted groundwater appears to be an elongated feature extending north from the apparent source area.

Impacted groundwater with concentrations of the targeted VOCs exceeding NYSDEC Class GA groundwater standards were detected in monitoring wells located along Torrance Place, north of the study site. This area appears to have been impacted from migration of impacted groundwater from the inferred source area beneath the Day Habilitation Center. Concentration levels of impacted groundwater decrease away from the inferred source area. The possibility also exists that a separate plume of impacted groundwater emanating from the Gowanda Electronics facility at 1 Industrial Place has extended to the western portion of Torrance Place. Additional groundwater monitoring and testing including wells from the Gowanda Electronics site would be required to determine sources of impact.

Volatilization of chlorinated VOCs from the groundwater plume into homes along Torrance Place has been identified as a possible exposure pathway for human contact. Laboratory analysis on soil gas samples collected along the Gowanda Day Habilitation Center's northern property line detected measurable concentrations of TCE. Any further soil gas or indoor air quality sampling will be coordinated at the discretion of the NYSDOH.

Modeling of indoor vapor concentration for TCE at a hypothetical buildings on the study site's northern property line indicated that potential indoor air concentrations of TCE would be less than the concentrations measured in the subsurface. Predicted building concentrations at the property line would be within the NYSDOH 75% percentile of results less than 1 $\mu G/M^3$. The model predicted vapor concentrations are also less than the reported model detection limit of $0.25\mu G/M^3$.

Based on the lower concentrations of impacted groundwater at Torrance Place, any resulting soil gas concentrations may also be lower than the values measured at the Gowanda Day Habilitation Center's northern property line. Any concentrations of VOCs within buildings would also likely be lower than the values predicted at the subject property's northern property line.

Modeling of potential indoor air concentrations indicate low potential indoor concentrations for TCE, at levels below current NYSDOH method detection limits. Risk assessments indicated values within the U.S. EPA acceptable range for on-site exposure.

Left untreated, the TCE in the vadose zone source on the Gowanda Day Habilitation Center property may continue to dissolve into the groundwater. Installation of a Interim Remedial Measures system will provide methods to control and minimize any off-site migration of contaminants, and will reduce future release through source removal of VOCs from the areas of greatest impact.

7.0 RECOMMENDATIONS

Based on review of the results of investigative work completed as part of the Supplemental Site Investigation at the Gowanda Day Habilitation Center property, OMRDD/DASNY anticipates that that the following actions will be taken upon approval of the NYSDEC and NYDOH.

- Additional groundwater monitoring wells should be installed to confirm the extent off-site impact to the northwest, near Thatcher Creek/Torrance Place, to the northeast, and to track potential impact from groundwater plume emanating from the Gowanda Electronics/AVM Gowanda site (NYSDEC No. 905025) located on the east side of Industrial Place.

  An additional well to the northwest of the site, along Torrance Place by Thatcher Creek may be appropriate to delineate the extent of off-site impacted groundwater and allow for an evaluation of any discharge into Thatcher creek near the Torrance Place intersection.

  The Gowanda Electronics site is the source of a plume of groundwater impacted with TCE which extends northward in an area adjacent to the Gowanda Day Habilitation Center property. It may be conceivable that the groundwater contaminant plume originating from the Gowanda Electronics property is migrating laterally in a west, northwest direction towards the former Day Habilitation Center property and residences on Torrance Place.

  At least one well should be placed at the northeast corner of the subject parcel, near Industrial Place. A well should also be installed near the Torrance Place/Industrial Place intersection. These wells can serve a sentry points to evaluate the potential for migration of impacted groundwater from the nearby Gowanda Electronics site onto the Day Habilitation Center site.

- A long-term groundwater monitoring and sampling program should be implemented to evaluate progress with planed on-site remediation as part of an Interim Remedial Measures (IRM) program. Future monitoring should include regular gauging of water table elevations to track water table surface and flow pattern to identify any seasonal variations, and also to track efficiency of any remedial system in establishing a radius of influence and groundwater containment area. The extent of impacted groundwater should be determined on a regular basis to determine the effectiveness of the IRM or to indicate if modifications are necessary. The frequency of a monitoring program should be approved by the NYSDEC and NYSDOH. Quarterly monitoring and sampling may be appropriate until seasonal variations are defined and operation of the IRM system is established.

- Future measurements of groundwater elevation/flow pattern and sampling for laboratory analysis should be coordinated with the NYSDEC to collect groundwater elevation data and sample several monitoring wells associated with the nearby Gowanda Electronics site. Groundwater quality samples and water table elevations from the Gowanda Electronics site have not been collected since December 1997. An updated data set of groundwater elevations and groundwater quality from select wells installed as part of the Gowanda Electronics investigation would be useful in developing a better understanding of area groundwater, would better define the limits of impacted groundwater from the Gowanda

electronics site, and will assist in determining if the western portion of Torrance Place is being impacted by the Day Habilitation Center, Gowanda Electronics site or both.

- The IRM proposed for the Gowanda Day Habilitation Center site includes measures for removal of VOCs from the unsaturated soil interval above groundwater beneath the building, and measures for collection and removal of VOCs from impacted groundwater. Proposed locations for interior recovery wells have been modified based on results of this SSI to improve the ability of the IRM to treat the impacted soil and groundwater at the study site. After activation of the IRM system soil gas samples should be collected for laboratory analysis on a regular basis at the property line to evaluate the effectiveness of the IRM in addressing impacted groundwater, determining removal rates from soil and groundwater and to the resulting effects in lowering VOCs in the soil gas at the property line.

- After activation of the IRM system indoor air samples should be collected from inside the Day Habilitation Center for determination of indoor air quality. A program of regular sampling and testing may be necessary to demonstrate adequacy of the IRM system and allow for re-use of the facility.

- The NYSDOH and/or the NYSDEC may determine that IAQ sampling at residences along Torrance Place is necessary to evaluate potential IAQ impacts with at a higher level of confidence. No indoor air samples, basement sub-slab soil gas samples or exterior samples were collected from the residences along the south side of Torrance Place. Estimates of potential indoor air quality and associated health risks were based on modeling conducted on soil gas samples collected at the Day Habilitation property line, and then estimating off-site concentrations based on a general decrease in VOCs in groundwater samples north of the study site. Modeling of potential IAQ values is based on a number of variables which were estimated for this SSI. Any future sampling mandated or performed by the NYSDEC and/or NYSDOH should also include IAQ analysis and groundwater monitoring along Torrance Place addressed as part of the Gowanda Electronics investigation.

8.0 REFERENCES

Bergmann Associates "Site Investigation Report", Gowanda Day Habilitation Center, Town of Persia, Cattaraugus County, NY, Voluntary Cleanup Agreement V-00464-9, April 2003.

Bergmann Associates "Supplemental Site Investigation Work Plan", Gowanda Day Habilitation Center, Town of Persia, Cattaraugus County, NY, May 2003

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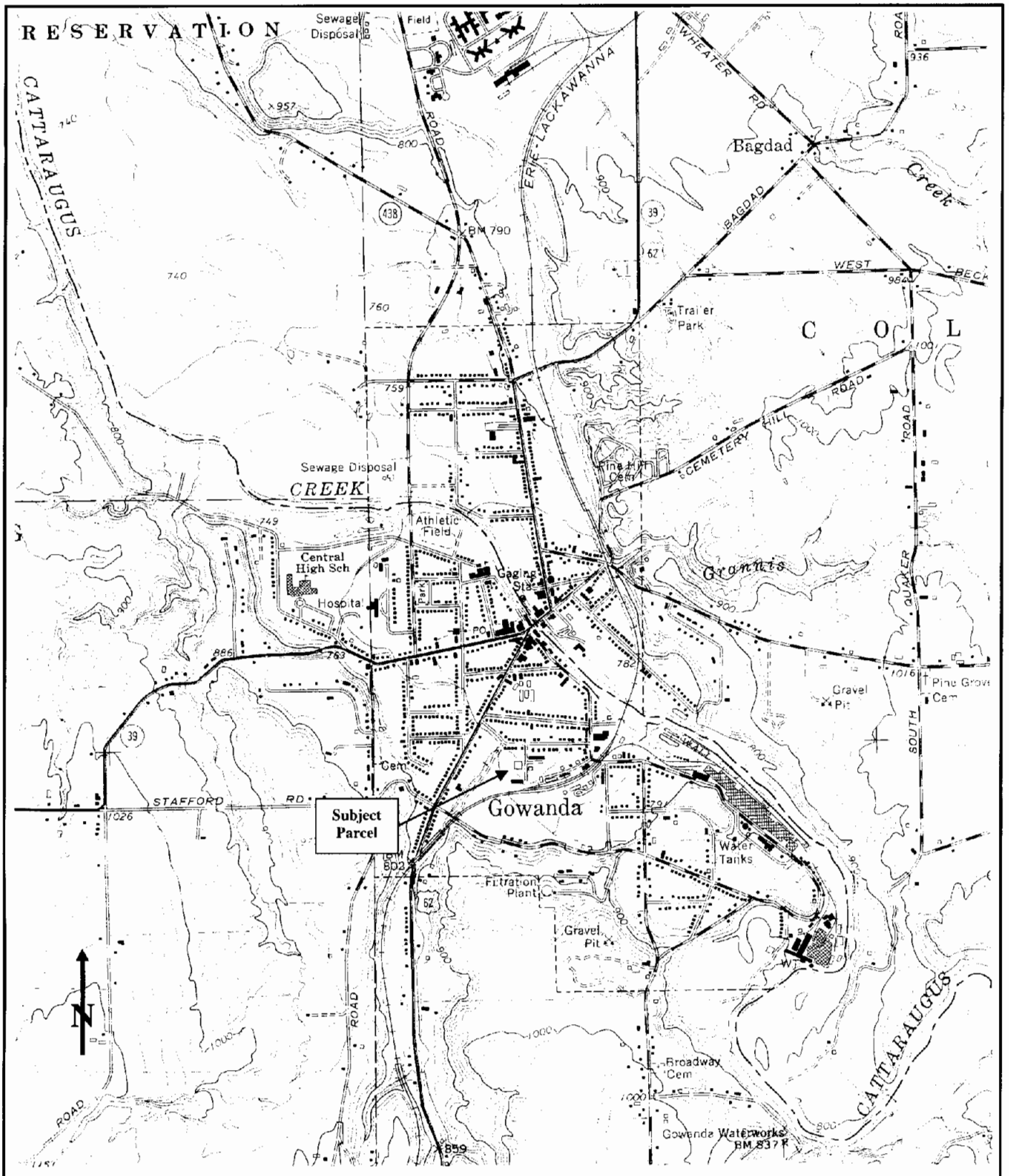
"User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings", prepared by Environmental Quality Management Inc., Durham, North Carolina, U.S. Environmental Protection Agency, Office of Emergency and Remedial Response, Washington D.D., June 19, 2003.

FIGURES

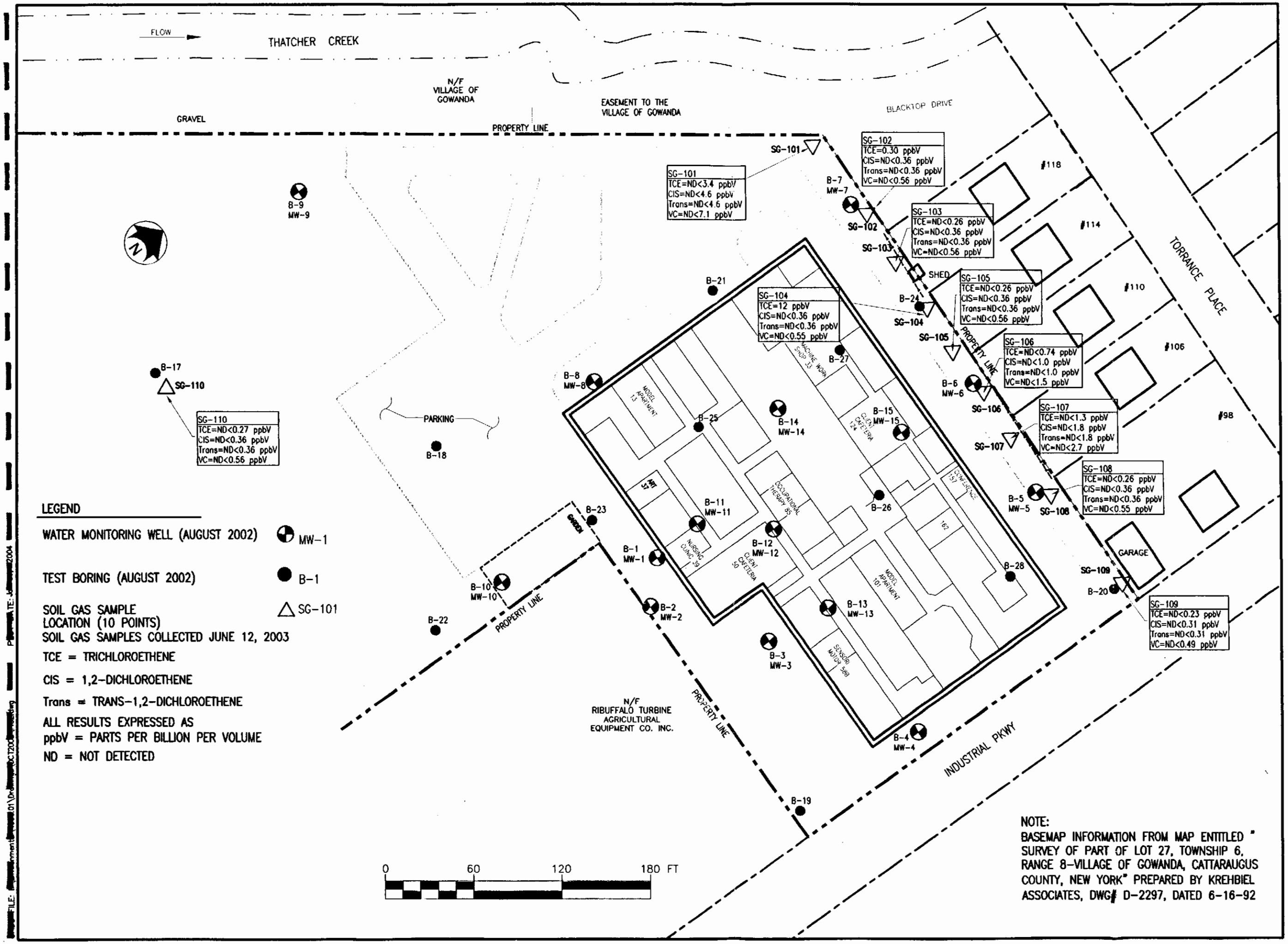


BERGMANN associates

GOWANDA DAY HABILITATION CENTER
Gowanda, Cattaraugus County, New York
Supplemental Site Investigation
Site Location Map
USGS 7.5 Minute Topographic Map, Gowanda, NY Quadrangle, 1976
Scale: 1inch = 2,000 feet

Date
October 2003

Figure
1



LEGEND

WATER MONITORING WELL (AUGUST 2002) MW-1

TEST BORING (AUGUST 2002) B-1

SOIL GAS SAMPLE LOCATION (10 POINTS) SG-101

SOIL GAS SAMPLES COLLECTED JUNE 12, 2003

TCE = TRICHLOROETHENE

CIS = 1,2-DICHLOROETHENE

Trans = TRANS-1,2-DICHLOROETHENE

ALL RESULTS EXPRESSED AS
ppbV = PARTS PER BILLION PER VOLUME

ND = NOT DETECTED

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 KREHBIEL ASSOCIATES, DWG# D-2297, DATED 6-16-92

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GOWANDA DAY
HABILITATION CENTER
4 INDUSTRIAL PLACE
GOWANDA, NY

BERGMANN associates
Engineers / Architects / Surveyors

DRAWING TITLE:

JUNE 2003 SOIL GAS SAMPLING SUMMARY

BY: **T.BOLT**

CHK'D BY: **E.JONES**

DRAWING DATE: **OCTOBER 28, 2003**

JOB #: **5596.12**

SHEET #: **FIGURE 2**

E:\ENVIRONMENTAL\4596.01\DRAWINGS\OCT2003\FIG2.DWG

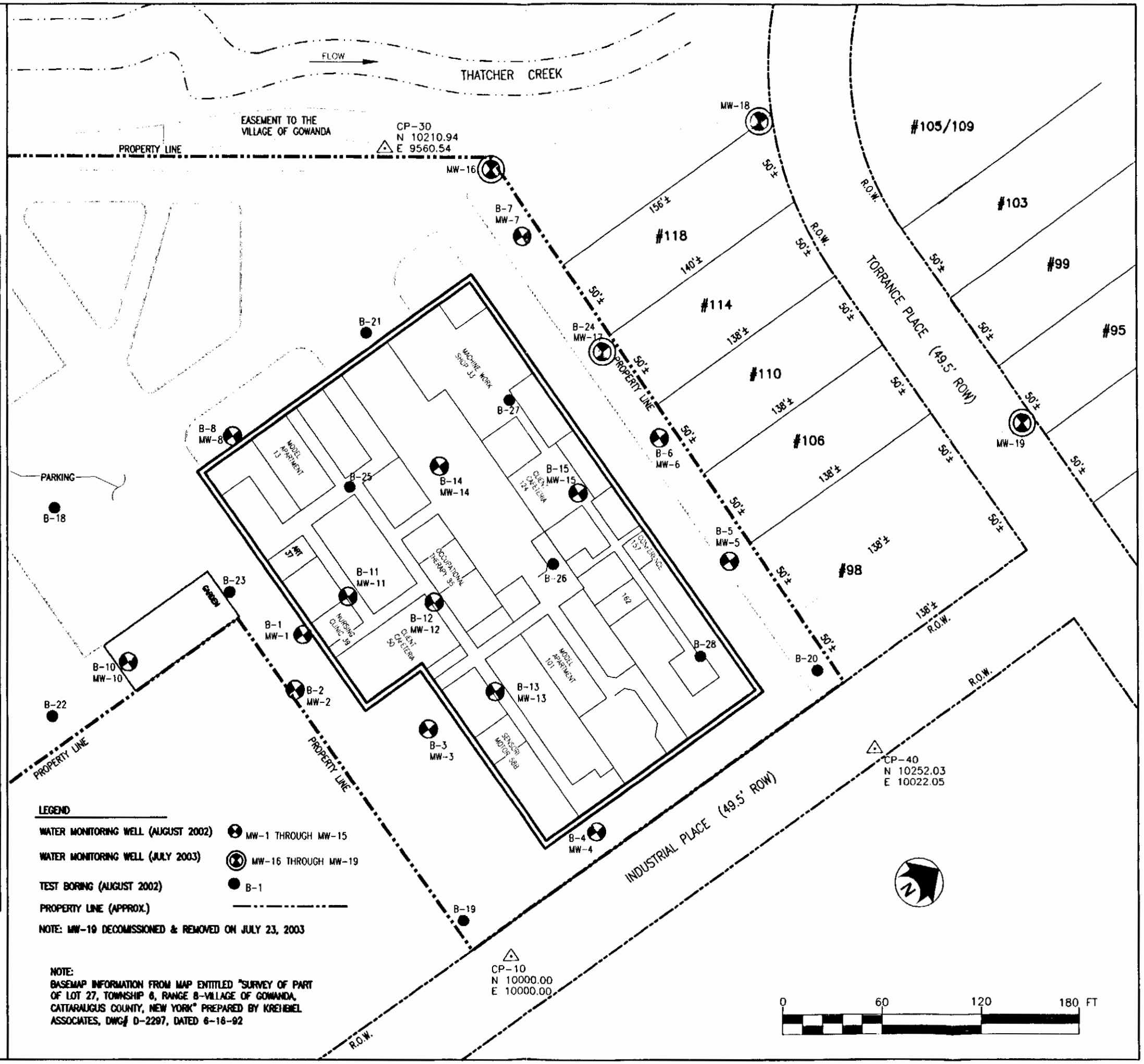
SCALE: 1" = 60'

FIG-2

MONITORING WELLS & BORING LOCATIONS

SAMPLE	NORTH	EAST	ELEVATION*	DESCRIPTION
MW-1	10005.75	9770.81	778.51 778.52 778.23	ASPH. RIM PVC
MW-2	9983.26	9795.25	778.36 778.38 778.08	ASPH. RIM PVC
MW-3	10036.20	9859.98	778.59 778.61 778.38	ASPH. RIM PVC
MW-4	10085.20	9967.62	778.66 778.77 778.43	GRD. RIM PVC
MW-5	10243.23	9880.34	778.80 778.85 778.61	ASPH. RIM PVC
MW-6	10249.86	9795.88	778.93 781.35 781.10	GRD CASE PVC
MW-7 B-17	10249.65	9650.24	778.77 781.17 780.94	GRD CASE PVC
MW-8	10038.09	9649.08	778.49 781.75 781.33	GRD CASE PVC
MW-9	9945.36	9430.13	780.56 782.84 782.61	GRD CASE PVC
MW-10	9909.53	9724.56	777.46 780.10 780.02	GRD CASE PVC
MW-11	10041.23	9767.54	778.82 778.81 778.58	FLOOR RIM PVC
MW-12	10082.02	9799.74	778.84 778.85 778.50	FLOOR RIM PVC
MW-13	10082.09	9864.35	778.88 778.87 778.39	FLOOR RIM PVC
MW-14	10130.64	9734.67	778.80 778.82 778.43	FLOOR RIM PVC
MW-15	10190.80	9795.30	778.78 778.76 778.38	FLOOR RIM PVC
MW-16	10256.48	9607.09	778.17 781.05 780.43	GRD CASE PVC
MW-17	10250.56	9734.35	778.67 781.10 779.85	GRD CASE PVC
MW-18	10406.65	9675.18	776.73 776.65 776.39	GRD RIM PVC
MW-19	10436.35	9912.63	775.04 775.10 774.82	GRD RIM PVC
B-16	9736.69	9324.99	782.23	GRD.
B-17	9795.99	9475.17	780.40	GRD
B-18	9925.09	9623.75	777.55	ASPH.
B-19	9988.66	9965.74	778.30	ASPH.
B-20	10249.88	9964.03	778.36	ASPH.
B-21	10139.46	9644.31	774.51	GRAV.
B-22	9853.67	9725.31	776.69	GRD.
B-23	9983.81	9724.83	778.50	ASPH.
B-24	10249.26	9732.76	778.88	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 BASED ON MEAN SEA LEVEL



LEGEND

WATER MONITORING WELL (AUGUST 2002) — MW-1 THROUGH MW-15

WATER MONITORING WELL (JULY 2003) — MW-16 THROUGH MW-19

TEST BORING (AUGUST 2002) — B-1

PROPERTY LINE (APPROX.)

NOTE: MW-19 DECOMMISSIONED & REMOVED ON JULY 23, 2003

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 KREHBIEL ASSOCIATES, DWG# D-2297, DATED 6-16-92

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HABILITATION CENTER
4 INDUSTRIAL PLACE
GOWANDA, NY

BERGMANN associates
Engineers / Architects / Surveyors

DRAWING TITLE:

2003 MONITORING WELL LOCATION MAP

BY:
T.BOLT

CHK'D BY:
E.JONES

DRAWING DATE:
OCTOBER 28, 2003

JOB #:
5596.12

SHEET #:
FIGURE 3

E:\ENVIRONMENTAL\4996.01\DRAWINGS\OCT2003\FIG3.DWG

SCALE: 1" = 60'

FIG-3

THATCHER CREEK

N/F VILLAGE OF GOWANDA

EASEMENT TO THE VILLAGE OF GOWANDA

PROPERTY LINE

BLACKTOP DRIVE

TORRANCE PLACE

INDUSTRIAL PLACE

PROPERTY LINE

PROPERTY LINE

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

MW-16
757.67

MW-18
754.73

B-9
MW-9
761.06

B-7
MW-7
759.27

B-21
758.01

MW-17
755.25

B-8
MW-8
762.66

B-14
MW-14
760.30

B-27

B-6
MW-6
758.43

MW-19
757.21

B-25

B-15
MW-15
758.28

B-18
761.55

B-5
MW-5
764.80

B-26

B-11
MW-11
763.57

B-23
762.67

B-1
MW-1
762.34

B-12
MW-12
761.67

B-10
MW-10
759.96

B-2
MW-2
761.36

B-28
765.83

B-20
763.36

B-22
763.19

B-13
MW-13
761.38

B-3
MW-3
761.59

B-4
MW-4
762.83

B-19
761.80

#118

#114

#110

#106

#98

SHED

GARAGE

MACHINE WORK SHOP 33

MODEL APARTMENT 43

CLIENT CAFETERIA 134

OCCUPATIONAL THERAPY 52

NURSING 39

CLIENT CAFETERIA 50

MODEL APARTMENT

SENSORY MOTOR 59B

GARAGE

N/F RIBUFFALO TURBINE AGRICULTURAL EQUIPMENT CO. INC.

PARKING

LEGEND

WATER MONITORING WELL
VALUE = ELEVATION OF TOP OF TILL LAYER RELATIVE TO MEAN SEA LEVEL, FEET ELEVATION — MW-1 761.36

TEST BORING — B-1

CONTOUR LINE FOR TOP OF TILL LAYER, RELATIVE TO MEAN SEA LEVEL, FEET — 762.0

0 60 120 180 FT

*ELEVATIONS ARE RELATIVE TO MEAN SEA LEVEL

FILE: ...\OCT2003\FIG4.DWG TIME: ... 2004

DASNY

GOWANDA DAY
HABILITATION CENTER
4 INDUSTRIAL PLACE
GOWANDA, NY

BERGMANN associates
Engineers / Architects / Surveyors

DRAWING TITLE:
REVISED GLACIAL TILL DEPOSIT SURFACE ELEVATION MAP

BY:
T.BOLT

CHK'D BY:
E.JONES

DRAWING DATE:
OCTOBER 24, 2003

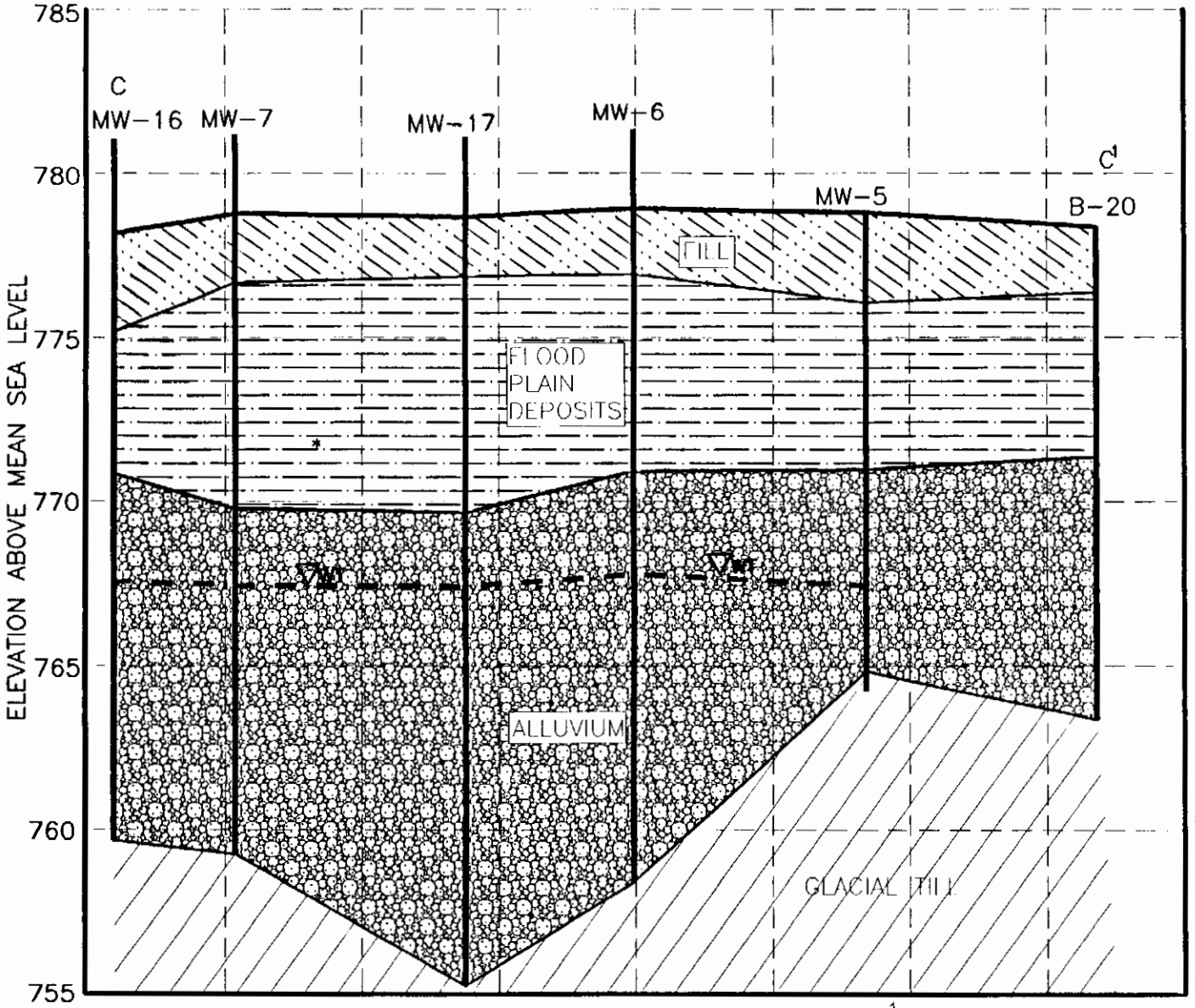
JOB #:
5596.12

SHEET #:
FIGURE 4

I:\ENVIRONMENTAL\4596.01\DRAWINGS\OCT2003\FIG4.DWG

SCALE: 1" = 60'

FIG-4



CROSS SECTION C – C'
SCALE: 1" = 60' HORIZ.
1" = 5' VERT.

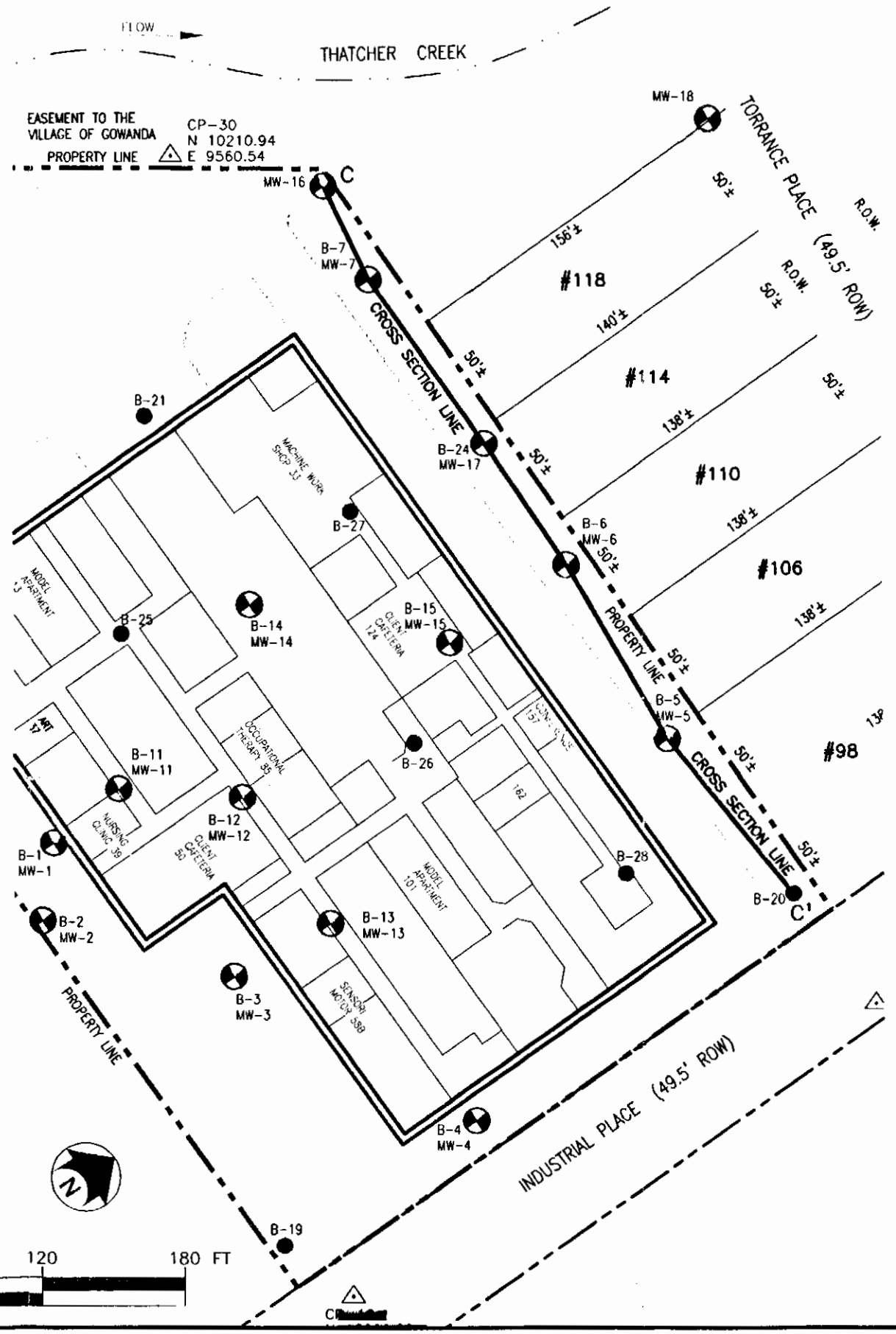
MONITORING WELLS & BORING LOCATIONS

SAMPLE	NORTH	EAST	ELEVATION	DESCRIPTION
MW-1	10006.75	9770.81	778.51	ASPH.
			778.52	RIM
			778.23	PVC
MW-2	9983.26	9795.25	778.36	ASPH.
			778.38	RIM
			778.08	PVC
MW-3	10036.20	9859.98	778.59	ASPH.
			778.61	RIM
			778.38	PVC
MW-4	10085.20	9967.82	778.66	GRD.
			778.77	RIM
			778.43	PVC
MW-5	10243.23	9880.34	778.80	ASPH.
			778.85	RIM
			778.61	PVC
MW-6	10249.84	9795.88	778.93	GRD
			781.35	CASE
			781.10	PVC
MW-7	10249.85	9850.24	778.77	GRD
			781.17	CASE
			780.94	PVC
MW-8	10058.09	9649.08	778.49	GRD
			781.75	CASE
			781.33	PVC
MW-9	9945.36	9430.13	780.56	GRD
			782.84	CASE
			782.61	PVC
MW-10	9909.53	9724.56	777.46	GRD
			780.10	CASE
			780.02	PVC
MW-11	10041.23	9787.54	778.82	FLOOR
			778.81	RIM
			778.58	PVC
MW-12	10082.02	9799.74	778.84	FLOOR
			778.85	RIM
			778.50	PVC
MW-13	10082.09	9884.35	778.88	FLOOR
			778.87	RIM
			778.38	PVC
MW-14	10130.64	9734.87	778.80	FLOOR
			778.82	RIM
			778.43	PVC
MW-15	10160.80	9785.30	778.78	FLOOR
			778.76	RIM
			778.38	PVC
B-16	9736.69	9324.99	787.23	GRD.
B-17	9795.89	9475.17	780.40	GRD.
B-18	9925.09	9833.75	777.58	ASPH.
B-19	9868.84	9945.74	778.30	ASPH.
B-20	10249.86	9884.03	778.36	ASPH.
B-21	10138.48	9644.31	774.31	GRAV.
B-22	9931.87	9725.31	778.59	GRD.
B-23	9983.81	9794.85	778.50	ASPH.
B-24	10149.48	9752.76	778.88	GRD.
B-25	10029.90	9714.32	778.58	FLOOR
B-26	10029.98	9714.32	778.62	FLOOR
B-27	10154.98	9821.84	778.84	FLOOR
B-28	10187.79	9776.14	778.80	FLOOR
B-29	10196.32	9917.18	778.83	FLOOR

*ELEVATIONS ARE RELATIVE TO MEAN SEA LEVEL

LEGEND

- WATER MONITORING WELL — MW-1
- TEST BORING (AUGUST 2002) — B-1
- CROSS SECTION LINE — C C'
- FILL
- FLOOD PLAIN DEPOSITS
- ALLUVIUM
- GLACIAL TILL
- WATER TABLE, JULY 2003 — WT.



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BERGMANN associates
Engineers / Architects / Surveyors

DRAWING TITLE:
GEOLOGIC CROSS SECTION C - C'

BY:
T.BOLT

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

DRAWING DATE:
OCTOBER 28, 2003

JOB #:
5596.12

SHEET #:
FIGURE 5

E:\ENVIRONMENTAL\4696.01\DRAWINGS\SEP103\FIG5.DWG

SCALE: 1" = 60'

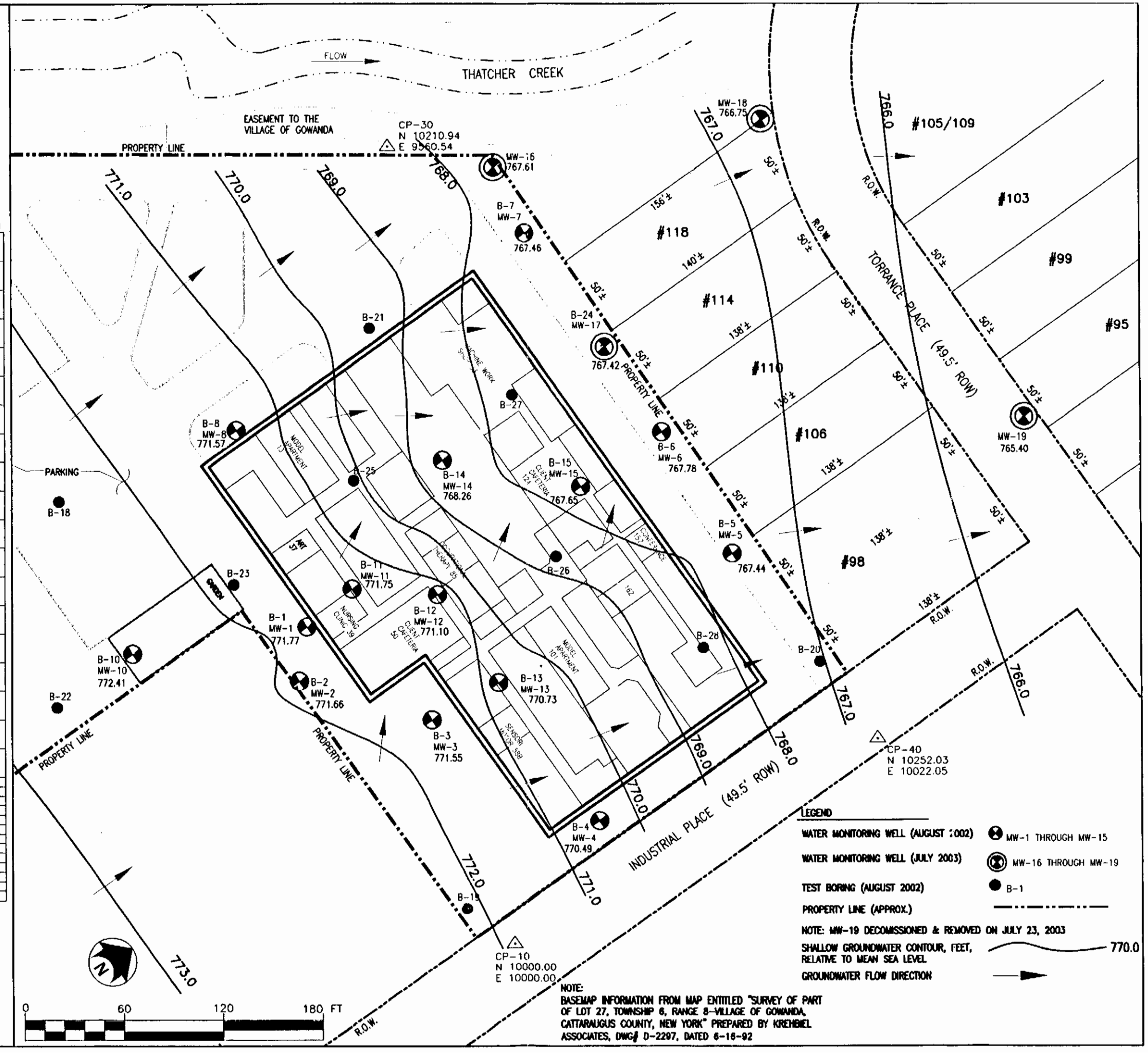
FIG-5

CADD FILE: I:\Environmental\4696.01\Drawings\OCT2003\FIG5.dwg PLOT DATE: Dec 09, 2003

MONITORING WELLS & BORING LOCATIONS

SAMPLE	NORTH	EAST	ELEVATION*	DESCRIPTION
MW-1	10005.75	9770.81	778.51 778.52 778.23	ASPH. RIM PVC
MW-2	9983.26	9795.25	778.36 778.38 778.08	ASPH. RIM PVC
MW-3	10036.20	9859.98	778.59 778.61 778.38	ASPH. RIM PVC
MW-4	10085.20	9967.62	778.66 778.77 778.43	GRD. RIM PVC
MW-5	10243.23	9880.34	778.80 778.85 778.61	ASPH. RIM PVC
MW-6	10249.86	9795.88	778.93 781.35 781.10	GRD CASE PVC
MW-7 B-17	10249.65	9650.24	778.77 781.17 780.94	GRD CASE PVC
MW-8	10038.09	9649.08	778.49 781.75 781.33	GRD CASE PVC
MW-9	9945.36	9430.13	780.56 782.84 782.61	GRD CASE PVC
MW-10	9909.53	9724.56	777.46 780.10 780.02	GRD CASE PVC
MW-11	10041.23	9767.54	778.82 778.81 778.58	FLOOR RIM PVC
MW-12	10082.02	9799.74	778.84 778.85 778.50	FLOOR RIM PVC
MW-13	10082.09	9864.35	778.88 778.87 778.39	FLOOR RIM PVC
MW-14	10130.64	9734.67	778.80 778.82 778.43	FLOOR RIM PVC
MW-15	10190.80	9795.30	778.78 778.76 778.38	FLOOR RIM PVC
MW-16	10256.48	9607.09	778.17 781.05 780.43	GRD CASE PVC
MW-17	10250.56	9734.35	778.67 781.10 779.85	GRD CASE PVC
MW-18	10406.65	9675.18	776.73 776.65 776.39	GRD RIM PVC
MW-19	10436.35	9912.63	775.04 775.10 774.82	GRD RIM PVC
B-16	9736.69	9324.99	782.23	GRD.
B-17	9795.99	9475.17	780.40	GRD.
B-18	9925.09	9623.75	777.55	ASPH.
B-19	9988.66	9965.74	778.30	ASPH.
B-20	10249.88	9964.03	778.36	ASPH.
B-21	10139.46	9644.31	774.51	GRAV.
B-22	9853.67	9725.31	776.69	GRD.
B-23	9983.81	9724.83	778.50	ASPH.
B-24	10249.26	9732.76	778.88	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 BASED ON MEAN SEA LEVEL



LEGEND

- WATER MONITORING WELL (AUGUST 2002) — MW-1 THROUGH MW-15
- WATER MONITORING WELL (JULY 2003) — MW-16 THROUGH MW-19
- TEST BORING (AUGUST 2002) — B-1
- PROPERTY LINE (APPROX.)
- NOTE: MW-19 DECOMMISSIONED & REMOVED ON JULY 23, 2003
- SHALLOW GROUNDWATER CONTOUR, FEET, RELATIVE TO MEAN SEA LEVEL — 770.0
- GROUNDWATER FLOW DIRECTION

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 KREHBIEL ASSOCIATES, DWG# D-2297, DATED 6-16-92

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DRAWING TITLE:
SHALLOW WATER TABLE SURFACE & GROUNDWATER FLOW JULY 2003

BY:
T.BOLT

CHK'D BY:
E.JONES

DRAWING DATE:
OCTOBER 28, 2003

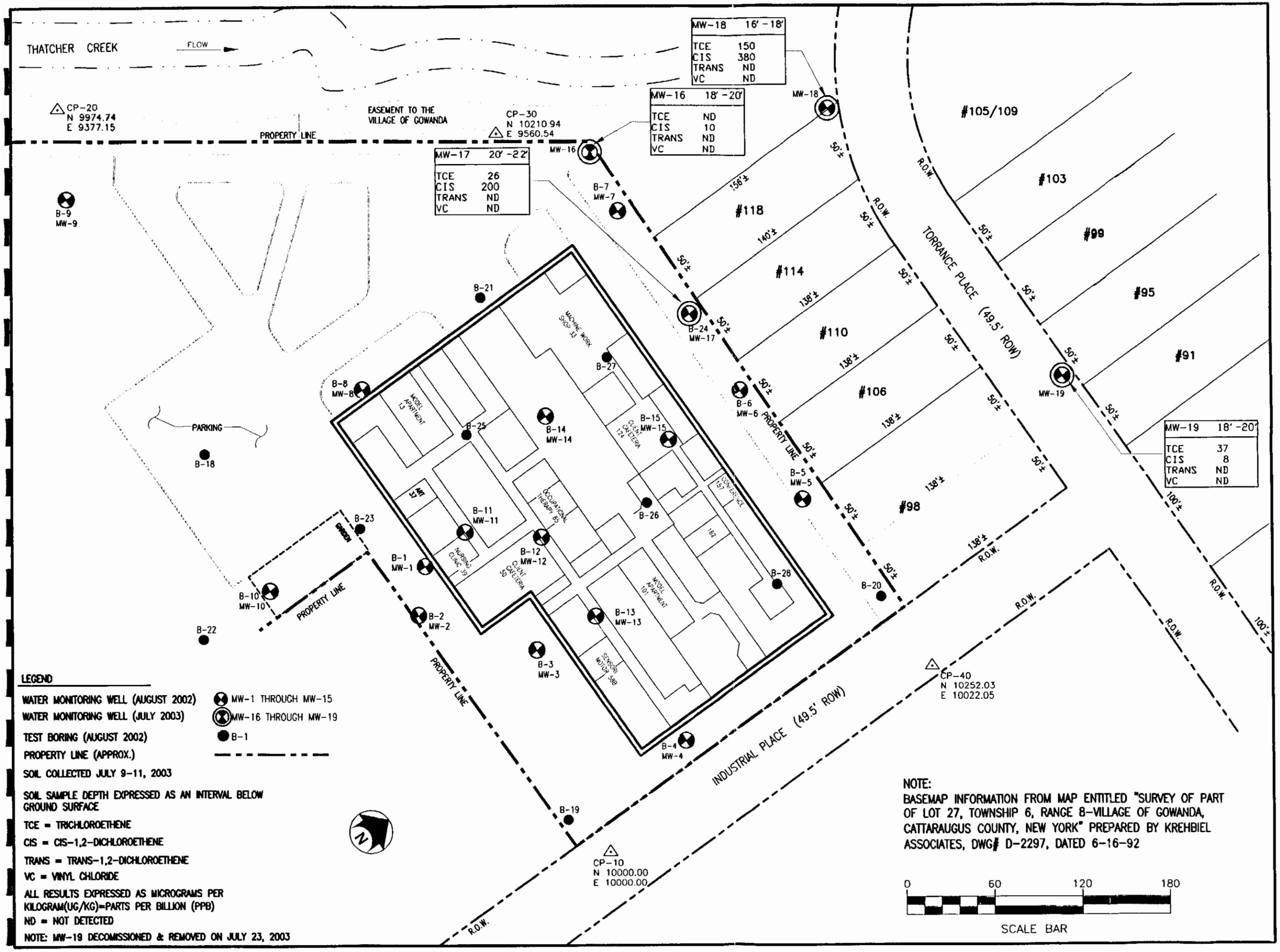
JOB #:
5596.12

SHEET #:
FIGURE 6

I:\ENVIRONMENTAL\4596.01\DRAWINGS\OCT2003\FIG6.DWG

SCALE: 1" = 60'

FIG-6



LEGEND

WATER MONITORING WELL (AUGUST 2002)	MW-1 THROUGH MW-15
WATER MONITORING WELL (JULY 2003)	MW-16 THROUGH MW-19
TEST BORING (AUGUST 2002)	B-1
PROPERTY LINE (APPROX.)	

SOIL COLLECTED JULY 9-11, 2003

SOIL SAMPLE DEPTH EXPRESSED AS AN INTERVAL BELOW GROUND SURFACE

TCE = TRICHLOROETHENE

CIS = CIS-1,2-DICHLOROETHENE

TRANS = TRANS-1,2-DICHLOROETHENE

VC = VINYL CHLORIDE

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

ND = NOT DETECTED

NOTE: MW-19 DECOMISSIONED & REMOVED ON JULY 23, 2003

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 KREHBIEL ASSOCIATES, DWG# D-2297, DATED 6-16-92

0 60 120 180

SCALE BAR

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DRAWING TITLE:
JULY 2003 SOIL ANALYTICAL RESULTS POSTING MAP

BY: **T.BOLT**

CHK'D BY: **E.JONES**

DRAWING DATE: **OCTOBER 28, 2003**

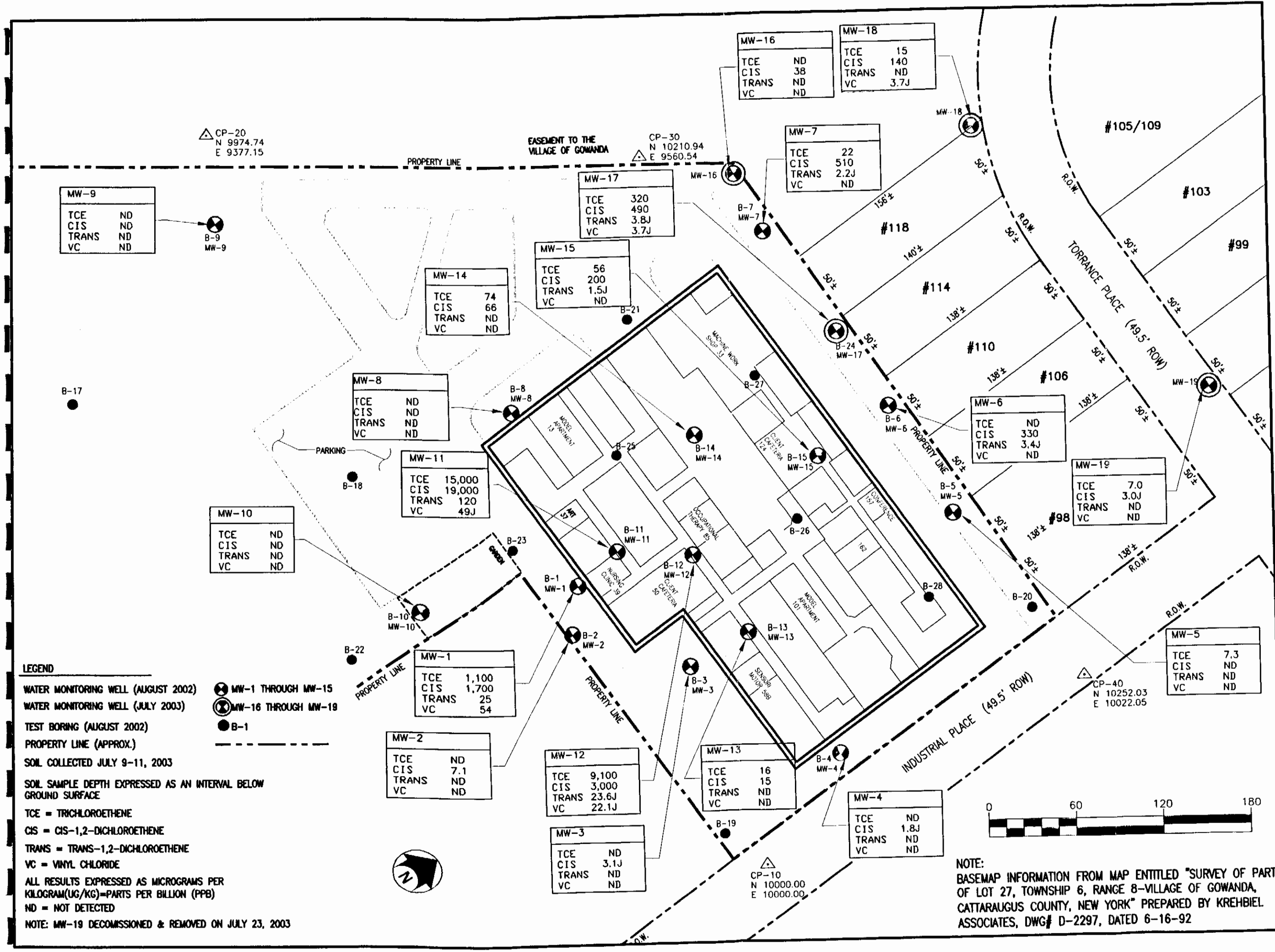
JOB #: **5596.12**

SHEET #: **FIGURE 7**

E:\ENVIRONMENTAL\4596.01\DRAWINGS\OCT2003\FIG7.DWG

SCALE: 1" = 60'

FIG-7



LEGEND

WATER MONITORING WELL (AUGUST 2002) — MW-1 THROUGH MW-15

WATER MONITORING WELL (JULY 2003) — MW-16 THROUGH MW-19

TEST BORING (AUGUST 2002) — B-1

PROPERTY LINE (APPROX.)

SOIL COLLECTED JULY 9-11, 2003

SOIL SAMPLE DEPTH EXPRESSED AS AN INTERVAL BELOW GROUND SURFACE

TCE = TRICHLOROETHENE

CIS = CIS-1,2-DICHLOROETHENE

TRANS = TRANS-1,2-DICHLOROETHENE

VC = VINYL CHLORIDE

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

ND = NOT DETECTED

NOTE: MW-19 DECOMMISSIONED & REMOVED ON JULY 23, 2003

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 KREHBIEL ASSOCIATES, DWG# D-2297, DATED 6-16-92

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DRAWING TITLE:
JULY 2003 GROUNDWATER ANALYTICAL RESULTS POSTING MAP

BY: **T.BOLT**

CHK'D BY: **E.JONES**

DRAWING DATE: **OCTOBER 28, 2003**

JOB #: **5596.12**

SHEET #: **FIGURE 8**

E:\ENVIRONMENTAL\4496.01\DRAWINGS\OCT2003\FIG8.DWG

SCALE: 1" = 60'

FIG-8

FLOW

THATCHER CREEK

CP-20
N 9974.74
E 9377.15

EASEMENT TO THE VILLAGE OF GOWANDA

CP-30
N 10210.94
E 9560.54

PROPERTY LINE

B-9
MW-9
TVOC=ND

MW-16
TVOC=38

MW-18
TVOC=159

B-7
MW-7
TVOC=534

B-21

B-8
MW-8
TVOC=ND

B-24
MW-17
TVOC=818

B-27

B-14
MW-14
TVOC=140

B-6
MW-6
TVOC=333

B-25

B-15
MW-15
TVOC=258

B-26

B-11
MW-11
TVOC=31,169

B-18

B-23

B-10
MW-10
TVOC=ND

B-1
MW-1
TVOC=2,879

B-22

B-2
MW-2
TVOC=7

B-12
MW-12
TVOC=12,153

B-3
MW-3
TVOC=3

B-13
MW-13
TVOC=31

B-4
MW-4
TVOC=2

B-5
MW-5
TVOC=7

B-28

B-20

B-19

MW-19
TVOC=10

CP-40
N 10252.03
E 10022.05

CP-10
N 10000.00
E [illegible]

100 PPB
500 PPB
1,000 PPB
10,000 PPB

#105/109
#103
#99
#95
#91
#118
#114
#110
#106
#98

TORRANCE PLACE (49.5' ROW)

INDUSTRIAL PLACE (49.5' ROW)

R.O.W.

PROPERTY LINE

50'±
100'±
138'±
140'±
156'±

PARKING

MACHINE SHOP 33

MODEL APARTMENT 13

CLIENT CAFETERIA 34

OCCUPATIONAL THERAPY 35

NURSERY 39

CLIENT CAFETERIA 50

MODEL APARTMENT 101

SENIORS MOTOR 369

LEGEND

OFF-SITE PROPERTY LINE (APPROX.)

WATER MONITORING WELL (AUGUST 2002) MW-1

JULY 2003 MONITORING WELL (MW16-19) MW-16

TEST BORING (AUGUST 2002) B-1

ISOPLETH OF TOTAL DETECTED VOCS IN GROUNDWATER, PPB JULY 2003 DASHED WHERE INFERRED

100 PPB

TVOC = TOTAL VOLATILE ORGANIC COMPOUNDS, PPB IN GROUNDWATER

0 60 120 180 FT

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Engineers / Architects / Surveyors

DRAWING TITLE:
INFERRED SHALLOW GROUNDWATER PLUME

BY:
T.BOLT

CHK'D BY:
E.JONES

DRAWING DATE:
OCTOBER 27, 2003

JOB #:
5596.12

SHEET #:
FIGURE 9

N:\ENVIRONMENTAL\4596.01\DRAWINGS\OCT2003\SOSCTFIG2.DWG

SCALE: 1" = 60'

FIG-9

APPENDIX 1

APPENDIX 1

SSI Boring Logs and Well Construction Details

DRILLING LOG

BERGMANN associates

BORING/WELL NUMBER: Test Boring MW-16

PROJECT: Gowanda Day Habilitation Center | Project No: 5596.12 | Page No. 1 of 1

Start Date: 07/10/2003 | Finish Date: 07/10/2003 | Top of Well: N/A | Boring No: MW-16

Driller: Dennis Honor, Geologic NY | Boring Location: Northwest corner of property, by access road

Inspector: Edward Jones, Bergmann Associates | Water Level (During Drilling): Approximately 11' 10"

Drilling Method: 4-1/4 inch HAS Augers, CME-45 C towed rig | Water Level (Post Drilling): Approx. 12 feet below grade

Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed through augers via pull back method.

Screened Interval: 21.0 ft. to 6.0 ft. | Slot Size: 0.010 inch | Well Type: 2" dia. PVC | Sandpack: 21.0 ft to 5.0 ft

Seal: 5.0 feet 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	0"/6"	6"/12"	12"/18"	18"/24"	N	NO.	Depth	Type	Recovery		
	2	25			51	1	0-2'	soil	75%	Grass surface, topsoil to 6"	ND
			26	13						F. GRAVEL and F-C Sand, Tr. Silt. Fill	
	4	4			6	2	2'-4'	soil	67%	Fill to 3.0' 3.0 ft	ND
			2	1						Damp Br. Soft SILT and F. Sand	0.3 ppm
5	1	1			2	3	4'-6'	soil	83%	Same, Soft, mottled brown & gray, damp	0.3 ppm
			1	1						Same to 7'4", then change to	
	1	2			9	4	6'-8'	soil	100%	F. GRAVEL and F-C Sand, Tr. Silt 7'4"	0.4 ppm
			7	6						Damp Br.M Dense GRAVEL & F. Sand	
	4	9			16	5	8'-10'	soil	33%	Br. Damp M. Dense F GRAVEL	1.3 ppm
10			7	4						And F-C Sand	
	2	3			7	6	10'-12'	soil	50%	Same, Damp, Loose	5.5 ppm
			4	3						Becomes wet, Saturated at 11' 10"	
	2	4			8	7	12'-14'	soil	46%	Same Saturated Loose GRAVEL and	2.2 ppm
			4	5						F-C Sand, Trace Silt. Grey at 14'	
15	8	7			10	8	14'-16'	soil	54%	Same Saturated M. Dense GRAVEL	3.3 ppm
			3	3						and F-C Sand	
	12	43			81	9	16'-18'	soil	100%	Same to 17'	4.0 ppm
			38	50/3"						Grey Dense M-C SAND, Some F. Gravel	
	15	45			95	10	18'-20'	soil	92%	Wet F. GRAVEL and F-C Sand, Tr. Silt	5.6 ppm
20			50	32						Same to 20'6", then Till 20.5'	
	20	31			81	11	20'-22'	soil	100%	Damp Gray Hard CLAY and Silt,	1.1 ppm
			50	50/2"						Little Gravel. Glacial Till 22'	
										Boring terminated at 22.0 feet	
25										2" diameter monitoring well	
										installed in test boring	
										All cuttings placed in drums.	
										H NU HW101 PID with 10.6 ev lamp	
30										used to screen soil samples for VOCs	

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

DRILLING LOG

BERGMANN associates

BORING/WELL NUMBER: Test Boring MW-17

PROJECT: Gowanda Day Habilitation Center | Project No: 5596.12 | Page No. 1 of 1

Start Date: 07/09/2003 | Finish Date: 07/09/2003 | Top of Well: N/A | Boring No: MW-17

Driller: Dennis Honor, Geologic NY | Boring Location: North property line, at Boring B-24 location

Inspector: Edward Jones, Bergmann Associates | Water Level (During Drilling): Approximately 11'10'

Drilling Method: 4-1/4 inch HAS Augers, CME-45 C towed rig | Water Level (Post Drilling): Approx. 12 feet below grade

Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed through augers via pull back method.

Screened Interval: 24.0 ft. to 9.0 ft. | Slot Size: 0.010 inch | Well Type: 2" dia. PVC | Sandpack: 24.0 ft to 8.0 ft

Seal: 8.0 feet to 4.0 feet | Weather Conditions: Overcast, humid, 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	0"/6"	6"/12"	12"/18"	18"/24"	N	NO.	Depth	Type	Recovery		
	2	6			11	1	0-2'	soil	75%	Grass surface, topsoil to 6"	ND
			5	5						F-C SAND and F. Gravel. Fill 1'10"	
	3	4			7	2	2'-4'	soil	50%	Damp light Brown M. Stiff SILT	ND
			3	3						and F. Sand. Roots	
5	2	3			6	3	4'-6'	soil	50%	Same. Lt. Br. M. Stiff SILT & F. Sand	ND
			3	5						Mottled	
	3	3			6	4	6'-8'	soil	79%	Same Br. M. Stiff SILT & F. Sand	ND
			3	4							
	3	8			17	5	8'-10'	soil	67%	Same to 9' 9.0'	0.7 ppm
10			9	8						V. Moist Br. F. GRAVEL & F-C Sand	
	12	4			10	6	10'-12'	soil	67%	Same, Loose	1.4 ppm
			6	6						Becomes Wet at 11'10"	
	5	6			17	7	12'-14'	soil	67%	Same saturated, M.Dense Br. F GRAVEL	0.7 ppm
			11	5						some F-C Sand, little Silt	
15	50/5"				50	8	14'-16'	soil	21%	Wet V. Dense F. GRAVEL	0.4 ppm
										Some F-C Sand Tr. Silt	
	28	24			59	9	16'-18'	soil	100%	Same, Wet Gr. V. Dense F. GRAVEL	3.4 ppm
			35	32						some F-C Sand, Tr. Silt	
	6	34			70	10	18'-20'	soil	50%	Same, wet, V.Dense GRAVEL some Sand	1.4 ppm
20			36	30							
	7	21			48	11	20'-22'	soil	82%	Same, wet, Dense	2.3 ppm
			27	32							
	21	50/6"			50	12	22'-24'	soil	100%	Same wet Gravel to 23'5" 23'5"	1.5 ppm
										Damp Grey Hard CLAY Till 24.0'	0.5 ppm
25					0					Boring terminated at 24.0 feet	
										2" diameter monitoring well	
					0					installed in test boring	
										All cuttings placed in drums.	
										H NU HW101 PID with 10.6 ev lamp	
30										used to screen soil samples for VOCs	

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

DRILLING LOG

BERGMANN associates

BORING/WELL NUMBER: Test Boring MW-18

PROJECT: Gowanda Day Habilitation Center | Project No: 5596.12 | Page No. 1 of 1

Start Date: 07/10/2003 | Finish Date: 07/10/2003 | Top of Well: N/A | Boring No: MW-18

Driller: Dennis Honor, Geologic NY | Boring Location: In front of #118 Torrance Pl., south side of road

Inspector: Edward Jones, Bergmann Associates | Water Level (During Drilling): Approximately 10 feet

Drilling Method: 4-1/4 inch HAS Augers, CME-45 C towed rig | Water Level (Post Drilling): Approx. 12 feet below grade

Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed through augers via pull back method.

Screened Interval: 28.0 ft. to 8.0 ft. | Slot Size: 0.010 inch | Well Type: 2" dia. PVC | Sandpack: 28.0 ft to 4.5 ft

Seal: 4.5 feet to 1.5 feet | Weather Conditions: Rain, very heavy in evening. 75 degrees

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	0"/6"	6"/12"	12"/18"	18"/24"	N	NO.	Depth	Type	Recovery		
	3	3			8	1	0-2'	soil	67%	Grass surface, topsoil to 6"	1.3 pm
			5	4						F-C SAND Some Gravel, FILL 2'	
	1	2			5	2	2'-4'	soil	83%	Damp Br. M. Stiff Mottled SILT	0.4 ppm
			3	2						and Fine Sand. Faint laminations visible	
5	5	6			14	3	4'-6'	soil	83%	Same to 5'5", then Gravel 5'5"	0.4 ppm
			8	15						Damp Br. F. GRAVEL and F-C Sand	
	8	7			12	4	6'-8'	soil	67%	Damp Dark Br. M. Dense F. GRAVEL	0.4 ppm
			5	5						some F-C Sand, Trace Silt	
	5	3			4	5	8'-10'	soil	42%	Same F. GRAVEL and F-C Sand, Tr Silt	0.4 ppm
10			1	1						Becomes Loose	
	3	1			1	6	10'-12'	soil	46%	Same. Becomes Wet, V. Loose at 10'	0.5 ppm
			WH	3							
	8	12			32	7	12'-14'	soil	75%	Same, Saturated Dense	0.7 ppm
			20	24						Grey at 13'	
15	7	15			33	8	14'-16'	soil	92%	Same, Dense, becomes brown-grey	1.3 ppm
			18	23							
	32	34			75	9	16'-18'	soil	67%	Same F. GRAVEL and F-C Sand to 15'6"	5.6 ppm
			41	50/4"						Then 6" of M-C SAND, Grey, wet	
	15	24			53	10	18'-20'	soil	100%	Wet V. Dense F. GRAVEL and	2.2 ppm
20			29	48						F-C Sand, Tr Silt	
	16	61			111	11	20'-22'	soil	100%	Same, V. Moist, V. Dense Grey	2.0 ppm
			50	50/4"						F. GRAVEL and F-C Sand, Little Silt	
	40	52			89	12	22'-24'	soil	100%	V. Moist Grey V. Dense F-C SAND	1.0 ppm
			37	32						and F. Gravel Trace Silt. Sand Lens	
25	6	41			111	13	24'-26'	soil	100%	Wet Grey V. Dense F. GRAVEL	1.4 ppm
			70	100						and F-C Sand, Some Silt	
	48	81			184	14	26'-28'	soil	100%	Same to 27'5 feet, then Clay 27.5'	1.1 ppm
			103	76						Damp Grey Hard CLAY, Till 28'	
										Boring terminated at 28 feet.	H NU PID with
30										2" well installed in boring.	10.6 ev lamp

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

DRILLING LOG

BERGMANN associates

BORING/WELL NUMBER: **Test Boring MW-19**

PROJECT: Gowanda Day Habilitation Center | Project No: 5596.12 | Page No. 1 of 1

Start Date: 07/11/2003 | Finish Date: 07/11/2003 | Top of Well: N/A | Boring No: MW-1

Driller: Dennis Honor, Geologic NY | Boring Location: North side of Torrance Place, in front of house at #95

Inspector: Edward Jones, Bergmann Associates | Water Level (During Drilling): Approximately 12 feet

Drilling Method: 4-1/4 inch HAS Augers, CME-45 C towed rig | Water Level (Post Drilling): Approx. 12 feet below grade

Remarks: Advanced test borings via Hollow Stem Augers. Monitoring well installed through augers via pull back method.

Screened Interval: 18.5 ft. to 7.0 ft. | Slot Size: 0.010 inch | Well Type: 2" dia. PVC | Sandpack: 18.5 ft to 6.0 ft

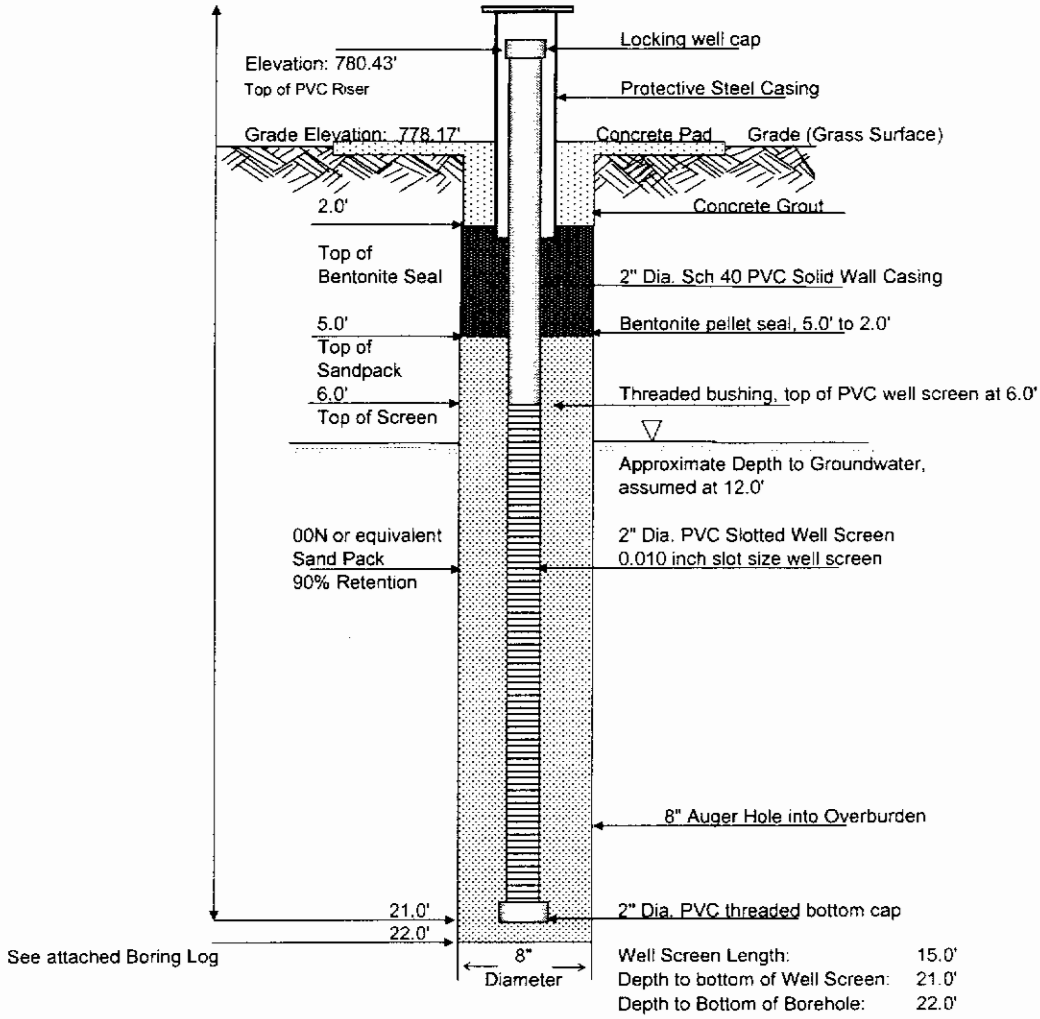
Seal: 6.0 feet to 2.0 feet | Weather Conditions: Cool, 75 degrees, partly cloudy in AM

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	0"/6"	6"/12"	12"/18"	18"/24"	N	NO.	Depth	Type	Recovery		
	1	3			9	1	0-2'	soil	75%	Grass surface, topsoil to 6"	0.9 ppm
			6	4						F-C SAND Some Gravel, FILL 2'	
	1	1			3	2	2'-4'	soil	88%	Damp Br. Mottled soft SILT and F. Sand	1.1 ppm
			2	4							
5	2	2			3	3	4'-6'	soil	63%	Same silt to 6', then Gravel 6.0'	1.4 ppm
			1	5						Gravel	
	7	5			12	4	6'-8'	soil	67%	Damp Dr. Br. M. Dense F. GRAVEL	0.8 ppm
			7	7						and F-C Sand, Trace Silt	
	4	6			14	5	8'-10'	soil	58%	Same, M. Dense	0.4 ppm
10			8	12							
	7	4			11	6	10'-12'	soil	17%	Same M.Dense GRAVEL and F-C Sand	0.4 ppm
			7	7						Becomes Wet at 11'	
	6	4			11	7	12'-14'	soil	75%	Same, Saturated	0.3 ppm
			7	9						M. Dense F. GRAVEL and F-C Sand	
15	4	32			69	8	14'-16'	soil	50%	Same, becomes V. Dense	0.3 ppm
			37	24							
	21	31			69	9	16'-18'	soil	100%	Same Wet Br. V. Dense GRAVEL and	0.2 ppm
			38	65						F-C Sand to 17'10", then Clay 17'10"	
										Damp Grey Hard CLAY and Gravel	
20										some Silt. TILL 18'6"	
										Boring terminated at 18.5 feet	
										2" diameter monitoring well	
25										installed in test boring	
										All cuttings placed in drums.	
										H NU HW101 PID with 10.6 ev lamp	
										used to screen soil samples for VOCs	
30											

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

MONITORING WELL MW-16

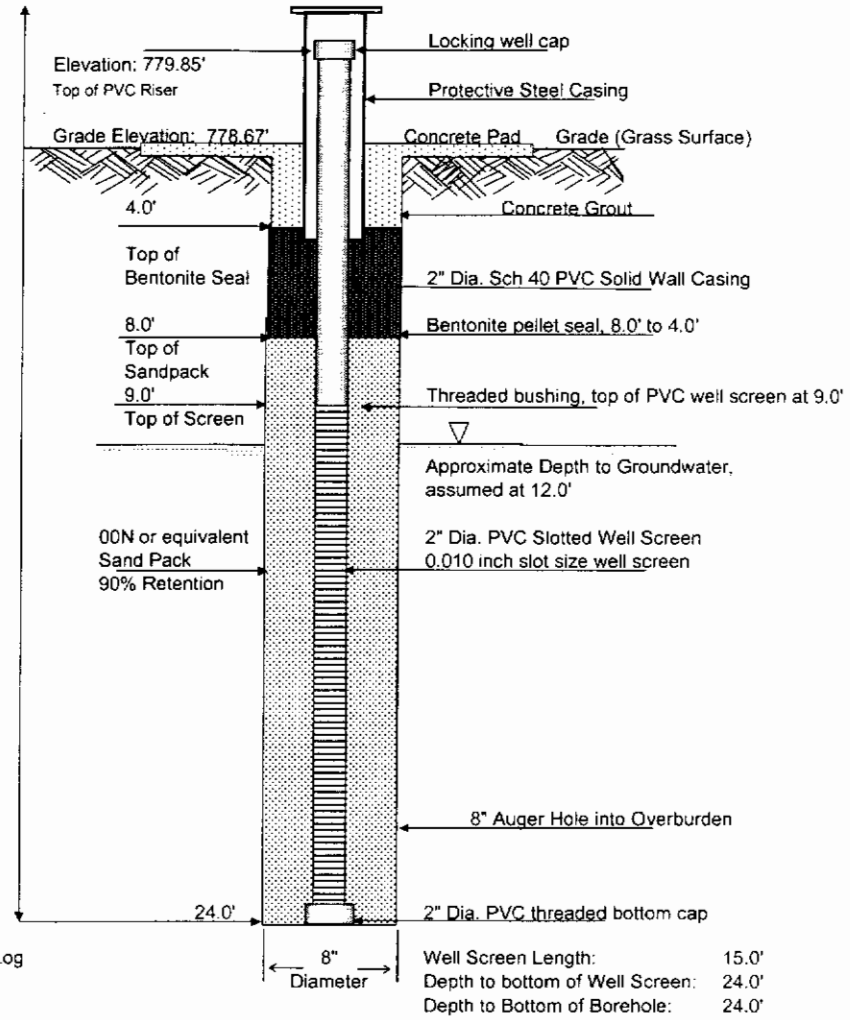


NOT TO SCALE

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

BERGMANN associates	**GOWANDA DAY HABILITATION CENTER** **4 INDUSTRIAL PLACE, GOWANDA, NEW YORK** **MONITORING WELL CONSTRUCTION DETAIL** **MW-16**	**Date Installed:** **10-Jul-03**

MONITORING WELL MW-17



See attached Boring Log

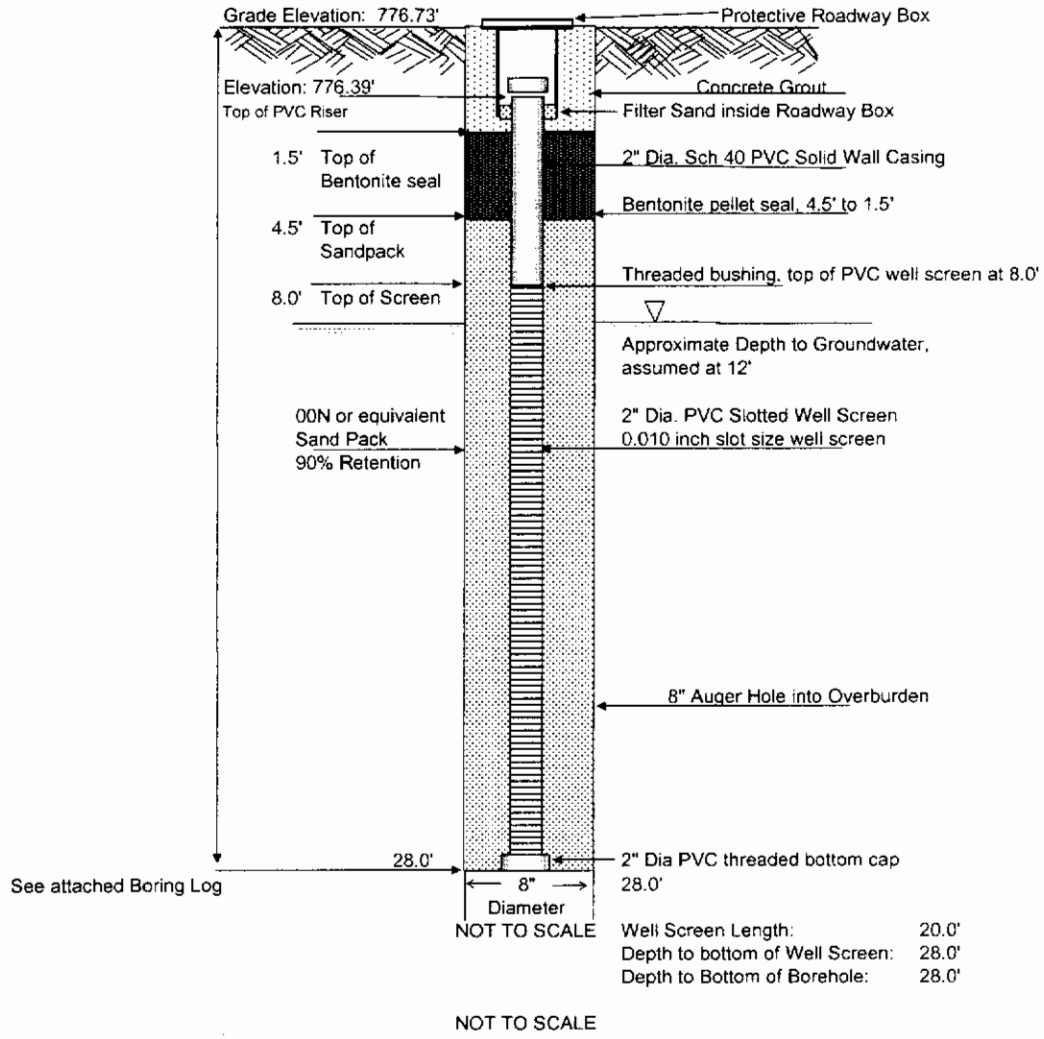
Well Screen Length:	15.0'
Depth to bottom of Well Screen:	24.0'
Depth to Bottom of Borehole:	24.0'

NOT TO SCALE

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

BERGMANN associates	**GOWANDA DAY HABILITATION CENTER** **4 INDUSTRIAL PLACE, GOWANDA, NEW YORK** **MONITORING WELL CONSTRUCTION DETAIL** **MW-17**	**Date Installed:** **9-Jul-03**

MONITORING WELL MW-18

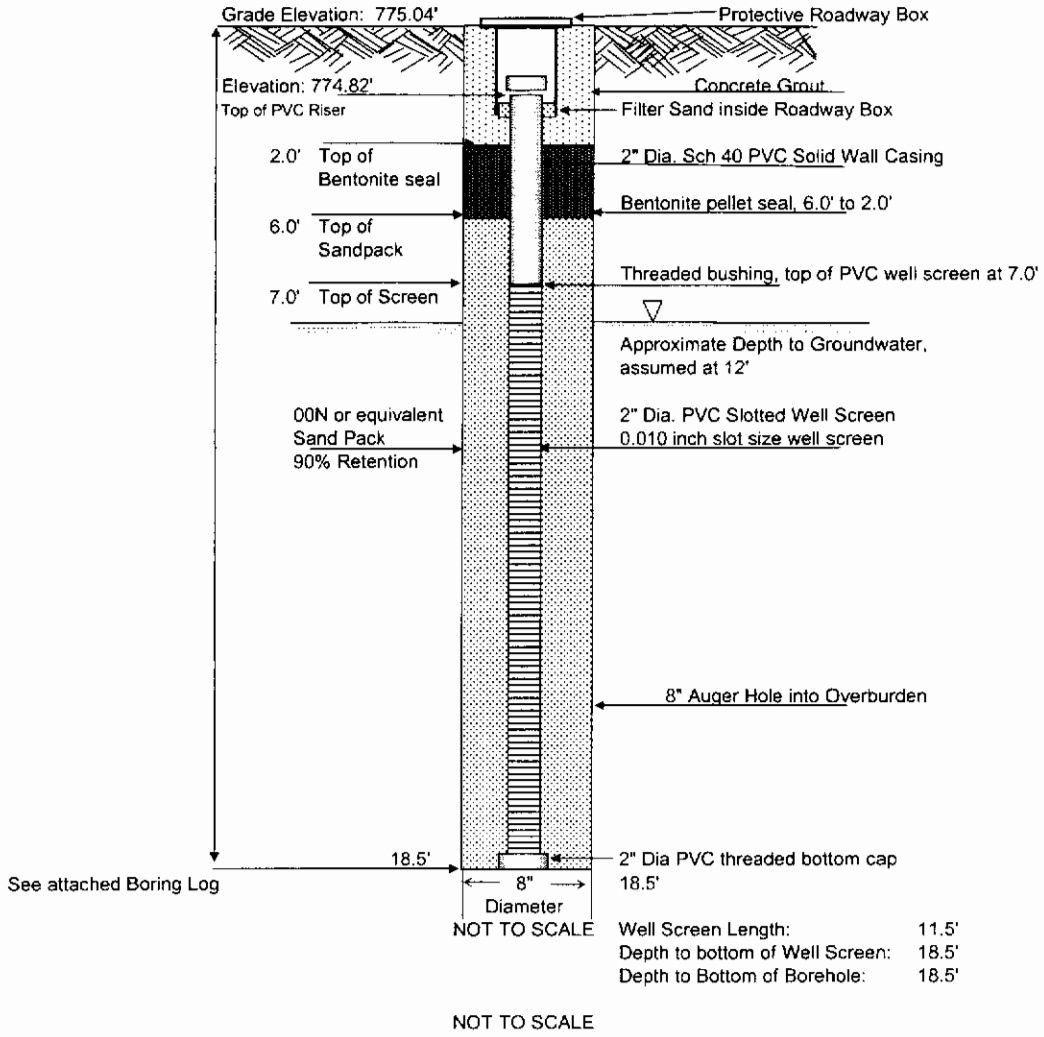


NOT TO SCALE

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

BEBGMANN associates	**GOWANDA DAY HABILITATION CENTER** **4 INDUSTRIAL PLACE, GOWANDA, NEW YORK** **MONITORING WELL CONSTRUCTION DETAIL** **MW-18**	**Date Installed:** **10-Jul-03**

MONITORING WELL MW-19



NOT TO SCALE

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

BERGMANN associates	**GOWANDA DAY HABILITATION CENTER** **4 INDUSTRIAL PLACE, GOWANDA, NEW YORK** **MONITORING WELL CONSTRUCTION DETAIL** **MW-19**	**Date Installed:** **11-Jul-03**

APPENDIX 2

APPENDIX 2

July 2003 Monitoring Well Depth Gauging and Development Forms

SUMMARY OF GROUNDWATER ELEVATIONS AND FIELD MEASUREMENTS: JULY 2003

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

	Sampling Date: JULY 22 and 23, 2003									
	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)	6.46	6.42	6.83	7.94	11.17	13.32	13.46	9.76	9.91	7.61
Groundwater Elevation	771.77	771.66	771.55	770.49	767.44	767.78	767.46	771.57	772.70	772.41
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	15.76	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	9.56	10.73	9.47	7.84	2.78	9.56	8.32	7.89	11.05	11.81
Minimum Purge Volume (gal)	1.56	1.75	1.54	1.28	0.45	1.56	1.36	1.29	1.80	1.93
3 Volumes	4.67	5.25	4.63	3.83	1.36	4.67	4.07	3.86	5.40	5.78
Actual volume purged	5.0	5.5	5.0	4.0	2.25	5.0	4.5	5.5	6.0	6.0
Comments	Flush = -0.29'	Flush = -0.30'	Flush = -0.23'	Flush = -0.34'	Flush = -0.24'	Stickup=2.17'	stickup=2.17'	stickup=2.64'	stickup=2.06'	stickup=2.56'

	Sampling Date: JULY 22 and 23, 2003								
	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19
Casing Elevation	778.58	778.50	778.39	778.43	778.38	780.43	779.86	776.39	774.62
Depth to Groundwater (btoc)	6.93	7.40	7.66	10.17	10.73	12.82	12.43	9.64	9.42
Groundwater Elevation	771.75	771.10	770.73	768.26	767.65	767.61	767.42	766.75	765.40
Well Diameter	2"	2"	2"	2"	2"	2"	2"	2"	2"
Product Thickness	nd	nd	nd	nd	nd	nd	nd	nd	nd
Well Depth (btoc)	15.48	17.38	17.40	18.15	19.80	23.26	25.18	25.0	18.3
Bottom of Well Elevation	763.10	761.12	760.99	760.28	758.58	757.17	754.67	751.39	756.52
Thickness of Water Column	8.55	9.98	9.74	7.98	9.07	10.44	12.75	15.36	8.88
Minimum Purge Volume (gal)	1.41	1.63	1.59	1.30	1.48	1.70	2.08	2.50	1.45
3 Volumes	4.23	4.88	4.76	3.90	4.44	5.11	6.23	7.51	4.34
Actual volume purged	5.0	5.25	5.0	4.25	5.0	5.5	6.5	6.0	5.0
Comments	Flush = -0.23	Flush = -0.35	Flush = -0.46	Flush = -0.39	Flush = -0.38	Stickup=2.26'	stickup=1.18'	Flush =-0.26'	Flush =-0.28'

NOTES

TOTAL VOLUME to PURGE, 3X ALL WELLS:
96.3 Gallons

btoc = Below top of casing (inner riser) All measurements are in feet, referenced to Mean Sea Level
nd = No floating product enccountered
Minimum purge volume = 3 X well volume, 0.163 gallon per foot in a 2" diameter well.
Monitoring well MW-19 was removed and the area restored on July 23, 2003 immediately after the well was developed, purged of 3 volumes and sampled.
The borehole for MW-19 was backfilled with a cement-bentonite grout after the PVC screening and casing was successfully removed.

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596.12
Site Location: mw-1
Sample Date: weds 07/23/03
Weather:
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: mw-1
Location:
Casing Diameter: 2"

Depth to water, below top of casing: 6' 5½" = 6.46
Depth to bottom of the well: 16.02
Length of water column in well: 9.56

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): 4.67
Actual volume purged prior to sampling: 5.0
Sampling Methodology: peristaltic pump
Sampling Equipment: Bailer to collect sample
Well Recharged? Yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1	2	3	4	5		
Turbidity	7999	167	47	20	9.0	128		
Temperature	16.2	16.1	15.70	15.7	15.9	15.5		
pH	8.06	8.07	8.14	8.11	8.11	8.12		
Conductivity	0.734	0.729	0.713	0.716	0.718	0.719		
DO	9.60	9.54	9.94	9.80	9.69	9.71		
Sal	0.03	0.03	0.02	0.02	0.03	0.03		

Time sample was collected: 3 50 pm

COMMENTS

MW-2

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596.12
Site Location: MW-2
Sample Date: 07/22/03
Weather:
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: MW-2
Location: South property line
Casing Diameter: 2"

Depth to water, below top of casing: 6'5" = 6.42'
Depth to bottom of the well: 17.15
Length of water column in well: 10.73

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: 1.75
3 Well volumes (= length water column X gal/foot X 3): 5.25
Actual volume purged prior to sampling: 5.5
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Bailer to collect

Well Recharged? Yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1	2	3	4	5	5.5	
Turbidity	85	404	34.0	48	68	79	22	
Temperature	14.9	15.5	15.6	15.1	15.3	16.6	15.4	
pH	8.02	8.28	8.07	8.04	8.04	8.13	8.18	
Conductivity	0.98	0.807	0.711	0.709	0.728	0.657	0.694	
DO	13.12	12.85	12.22	12.53	12.22	11.26	12.35	
Sal	0.04	0.03	0.02	0.02	0.02	0.02	0.02	

Time sample was collected: 2 35 pm

COMMENTS

mw-3

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596.12
Site Location: mw-3 parking LOT South
Sample Date: 07/22/03
Weather:
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: mw-3
Location: South LOT
Casing Diameter: 2"

Depth to water, below top of casing: 2'10" = 6.83'
Depth to bottom of the well: 16-30
Length of water column in well: 9.47

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: 1.54
3 Well volumes (= length water column X gal/foot X 3): 4.63
Actual volume purged prior to sampling: 5-0
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: dedicated Bailer to collect

Well Recharged? yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1.0	2.0	3.0	4.0	4.5	5.0	
Turbidity	600	493	310	189	84	61	47	
Temperature	18.3	18.2	18.2	18.3	18.6	18.7	18.8	
pH	7.94	8.00	8.07	8.11	8.00	8.06	8.10	
Conductivity	0.661	0.633	0.618	0.616	0.614	0.610	0.611	
DO	11.03	11.05	11.02	10.89	10.90	10.89	10.65	
Sal	0.02	0.02	0.02	0.02	0.02	0.02	0.02	

Time sample was collected: 1:40 pm

COMMENTS

mw-4

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: @ 5596.12
Site Location: mw-4
Sample Date: TUES 07/22/03 11:30 AM
Weather: By EAST Entrance
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: mw-4
Location: EAST LOT
Casing Diameter: 2"

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

Depth to water, below top of casing: 7 10½" = 7.94
Depth to bottom of the well: 15.78'
Length of water column in well: 7.84 ft

Volume of water in well casing, gallons: 1.28
3 Well volumes (= length water column X gal/foot X 3): 3.83
Actual volume purged prior to sampling: 4.0
Sampling Methodology: peristaltic pump to Develop
Sampling Equipment: Dedicated bailer to Sample

Well Recharged? yes
Required Analysis: VOCs

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons							
Parameter	0.25	1.0	2.0	3.0	4.0			
Turbidity	>999	139	54	37	9.0			
Temperature	18.2	18.6	18.8	19.4	19.5			
pH	8.18	8.12	8.12	8.10	8.11			
Conductivity	0.700	0.730	0.718	0.712	0.708			
DO	10.78	10.78	10.34	10.68	10.			
Sal	0.02	0.03	0.03	0.03	0.03			

Time sample was collected: 11:30 AM

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gouverda VCA
Project Number: 5596-12
Site Location: mw-5
Sample Date: 07/22/03
Weather:
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: mw-5, 3 5/8"
Location: North property line
Casing Diameter: 2"

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

Depth to water, below top of casing: 11'2" = 11.17
Depth to bottom of the well: 13.95
Length of water column in well: 2.78

Volume of water in well casing, gallons: 0.45
3 Well volumes (= length water column X gal/foot X 3): 1.36
Actual volume purged prior to sampling: 2.25
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Dedicated bailer to sample

Well Recharged? Yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	050	1.0	1.5	2.0	2.25		
Turbidity	>999	>999	574	130	75	43		
Temperature	17.5	17.4	17.3	17.5	17.4	17.2		
pH	8.13	8.12	8.06	8.07	8.13	8.11		
Conductivity	1.03	0.977	0.931	0.896	0.891	0.884		
DO	10.6	10.31	10.62	10.56	10.37	10.44		
Eh	0.04	0.04	0.03	0.03	0.3	0.3		

Time sample was collected: 3:30 pm

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596.12
Site Location: mw-6
Sample Date: TUES 07/22
Weather: Rain
Personnel: ED JONES

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: MW-6
Location: North property Line
Casing Diameter: 2"

Depth to water, below top of casing: 13 3/8" = 13.32
Depth to bottom of the well: 22.88
Length of water column in well: 9.56

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: 1.56
3 Well volumes (= length water column X gal/foot X 3): 4.67
Actual volume purged prior to sampling: 5.0
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Dedicated Bailer to sample

Well Recharged? Yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1.0	2.0	3.0	4.0	5.0		
Turbidity	79	147	80	63	31	29		
Temperature	17.6	17.5	17.6	17.8	17.3	17.3		
pH	8.13	8.06	8.07	8.03	8.11	8.11		
Conductivity	0.724	0.723	0.726	0.721	0.727	0.721		
DO	10.53	10.83	10.89	10.89	10.94	10.45		
Sal	0.03	0.02	0.02	0.02	0.03	0.02		

Time sample was collected: 7:15 pm at night

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596-12
Site Location: MW-7
Sample Date: Tues 07/22
Weather: Rain
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: MW-7
Location: NW property corner
Casing Diameter: 2"

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

Depth to water, below top of casing: 13' 5 3/4" = 13.5
Depth to bottom of the well: 21.80
Length of water column in well: 8.3

Volume of water in well casing, gallons: 1.35
3 Well volumes (= length water column X gal/foot X 3): 4.05
Actual volume purged prior to sampling: 4.5
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: dedicated bailer to sample

Well Recharged? Yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1	2	3	4	4.50		
Turbidity	259	114	160	53	43	43		
Temperature	16.5	16.1	16.1	17.1	16.2	15.90		
pH	8.10	8.11	8.05	8.07	8.05	8.10		
Conductivity	0.945	0.940	.950	0.850	0.930	0.950		
DO	11.40	11.46	11.35	10.8	9.53	9.55		
Sal	0.03	0.04	.04	0.03	0.04	0.04		

Time sample was collected: 8:00 pm at night

COMMENTS

MW-8 Tues 07/22/09

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596.12
Site Location: west side of Bldg
Sample Date: Tues 07/22/09 8:50 Am
Weather: Overcast ; n Am
Personnel: Sampled 9:00 Am

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: mw-8
Location: By west side of Bldg
Casing Diameter: 2"

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

Depth to water, below top of casing: 9' 9 3/16" = 9.76'
Depth to bottom of the well: 17.65'
Length of water column in well: 7.89

Volume of water in well casing, gallons: 1.29 gallons
3 Well volumes (= length water column X gal/foot X 3): 3.86
Actual volume purged prior to sampling: 5.5
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Dedicated bailer to sample

Well Recharged? Yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	2	1.0	2.0	2.5	3.0	4.0	5.0	5.5
Turbidity	624	963	409	102	106	73	53	~~38~~ 28
Temperature	14.8	14.40	15.0	14.8	14.7	14.9	14.9	15.2
pH	7.97	8.12	8.13	8.20	8.17	8.19	8.17	8.20
Conductivity	0.95	0.89	0.85	0.87	0.84	0.84	0.83	0.83
DO	11.88	12.17	11.68	12.19	12.18	~~12.01~~	12.02	11.95
Sal	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Time sample was collected: 9:20 Am

COMMENTS

mw-9

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596.12
Site Location: South west corner of yard
Sample Date: 07/22/09
Weather: overcast
Personnel: EA Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: mw-9
Location: S.W. corner by Road
Casing Diameter: 2"

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

Depth to water, below top of casing: 9' 10 7/8" - 9.91
Depth to bottom of the well: 20.96
Length of water column in well: 11.05

Volume of water in well casing, gallons: 1.80
3 Well volumes (= length water column X gal/foot X 3): 5.40
Actual volume purged prior to sampling: 6.0
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Dedicated bailer to sample

Well Recharged? Yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1.0	2.0	3.0	4.0	5.0	6.0	
Turbidity	186	42	22	12	7.0	7.0	8.0	
Temperature	15.2	13.9	14.3	14.40	14.4	14.2	14.0	
pH	8.28	8.15	8.05	8.07	8.08	8.08	8.10	
Conductivity	1.09	1.13	1.13	1.14	1.14	1.14	1.15	
DO	13.45	14.40	12.95	13.56	13.40	13.41	13.33	
Sal	0.04	0.05	0.05	0.04	0.05	0.04	0.05	

Time sample was collected: 12 30 pm

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596-12
Site Location: MW-10
Sample Date: 07/22/03 10:15 Am
Weather: overcast
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: MW-10
Location: South property Line-Grass
Casing Diameter: 2"

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

Depth to water, below top of casing: 7' 7 3/8" = 7.61
Depth to bottom of the well: Ht. '
Length of water column in well: 11.8'

Volume of water in well casing, gallons: 1.92
3 Well volumes (= length water column X gal/foot X 3): 5.8 gallons
Actual volume purged prior to sampling: 6.0
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Dedicated bailer to sample

Well Recharged? Yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons						
	0.5	1.0	2.0	3.0	4.0	5.0	6.0
Turbidity	228	88	52	30	22	19	17
Temperature	14.5	14.5	14.7	14.7	14.7	15.0	14.9
pH	8.16	8.17	8.08	8.13	8.15	8.13	8.18
Conductivity	0.70	0.70	0.70	0.70	0.696	0.693	0.684
DO	12.53	12.57	12.80	12.77	12.73	12.72	12.48
Sal	0.02	0.03	0.02	0.02	0.02	0.02	0.02

Time sample was collected: 10:15 Am

COMMENTS

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596.12
Site Location: MW-11
Sample Date: Weds 07/23/03
Weather: N/A
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: MW-11
Location: Inside the building
Casing Diameter: 2"

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

Depth to water, below top of casing: 6' 10" = 6.83
Depth to bottom of the well: 15.48
Length of water column in well: 8.65

Volume of water in well casing, gallons: 1.41
3 Well volumes (= length water column X gal/foot X 3): 4.22
Actual volume purged prior to sampling: 5.0
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Dedicated bailer to sample

Well Recharged? Yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1	2.5	3.25	4.0	5.0		
Turbidity	570	503	194	155	83	49		
Temperature	15.2	14.9	15.2	14.9	15.0	15.2		
pH	8.12	8.12	8.08	8.11	8.11	8.12		
Conductivity	0.809	0.768	0.756	0.760	0.759	0.760		
DO	9.91	10.05	9.89	9.82	9.66	9.42		
Sal	0.03	0.03	0.03	0.03	0.03	0.03		

Time sample was collected: 4:30 PM

COMMENTS

MW-12

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596.12
Site Location: MW-12
Sample Date: 07/23/03
Weather: N/A
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: MW-12 LAST well sampled
Location: Inside the building
Casing Diameter: 2"

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

Depth to water, below top of casing: 4.43
Depth to bottom of the well: 14.38'
Length of water column in well: 9.95'

Volume of water in well casing, gallons: 1.62
3 Well volumes (= length water column X gal/foot X 3): 4.88
Actual volume purged prior to sampling: 5.25
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Dedicated bailer to sample

Well Recharged? YES
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1	2	3	4	5	5.25	
Turbidity	402	57	40	18	7	6	4	
Temperature	16.8	16.8	16.9	16.9	16.7	16.6	16.7	
pH	8.06	8.13	8.06	8.07	8.14	8.13	8.12	
Conductivity	0.693	0.693	0.696	0.694	0.697	0.696	0.697	
DO	8.91	8.80	8.74	8.77	8.78	8.73	8.74	
Sal	0.02	0.02	0.02	0.02	0.02	0.02	0.02	

Time sample was collected: 5:45 pm LAST well

COMMENTS ASP

MW-13

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596-12
Site Location: MW-13
Sample Date: Tues 07/22
Weather: N/A
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: MW-13
Location: inside the building
Casing Diameter: 2"

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

Depth to water, below top of casing: 7' 7 3/8" = 7.66
Depth to bottom of the well: 17.40
Length of water column in well: ~~9.74~~ 9.74
Volume of water in well casing, gallons: ~~1.60~~ 1.59
3 Well volumes (= length water column X gal/foot X 3): ~~4.80~~ 4.76
Actual volume purged prior to sampling: 5.0
Sampling Methodology: Dedicated bailer to sample,
Sampling Equipment: used a peristaltic pump to purge

Well Recharged? YES
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

	Accumulated Volume Purged in Gallons							
Parameter	0.25	1.0	2.0	3.0	4.0	5.0		
Turbidity	2999	205	34	7.0	5.0	3.0		
Temperature	17.6	16.8	16.6	16.5	16.4	16.2		
pH	7.95	8.05	8.02	8.02	8.03	8.09		
Conductivity	0.609	0.592	0.594	0.593	0.594	0.595		
DO	10.73	10.86	10.94	10.90	11.05	11.05		
Sal	0.02	0.02	0.02	0.02	0.02	0.02		

Time sample was collected: 6:15 pm

COMMENTS

mw-14

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596.12
Site Location: mw-14
Sample Date: Tues 07/22/03
Weather: N/A
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: MW-14
Location: inside the building
Casing Diameter: 2"

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

Depth to water, below top of casing: 10' 2" = 10.17'
Depth to bottom of the well: 18.15
Length of water column in well: 7.98'

Volume of water in well casing, gallons: 1.30
3 Well volumes (= length water column X gal/foot X 3): 3.90
Actual volume purged prior to sampling: 4.25
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Dedicated bailer to sample

Well Recharged? YES
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

3.0

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1	~~1.5~~	~~2.0~~	~~2.7~~	3.5	4.0	4.25
Turbidity	>999	>999	>999	>999	979	402	250	~~269~~
Temperature	18.1	19.0	18.4	18.3	18.7	18.5	~~18.6~~	18.4
pH	8.06	8.04	8.05	8.02	8.04	7.99	8.00	8.04 ~~8.04~~
Conductivity	0.846	0.739	0.862	0.868	0.873	0.875	0.883	0.876
DO	10.24	9.79	10.06	10.17	10.09	10.17	10.16	10.40
S.U.	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03

Time sample was collected: 5:15pm

COMMENTS

MW-15

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596-12
Site Location: MW-15
Sample Date: 07/23/03
Weather: Weds 07/23/03
Personnel: N/A

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: MW-15
Location: old cafeteria, inside
Casing Diameter: 2"

Depth to water, below top of casing: 10' 8 1/2" = 10.73'
Depth to bottom of the well: 19.80'
Length of water column in well: 9.07

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: 1.48 gal
3 Well volumes (= length water column X gal/foot X 3): 4.44 gal
Actual volume purged prior to sampling: 5.0
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Dedicated Bailer to Sample

Well Recharged? yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged In Gallons							
	0.5	1	2	3.5	4.5	5.0		
Turbidity	292	398	76	78	~~27~~	38		
Temperature	19.2	19.2	19.0	19.1	18.7	18.6		
pH	8.06	8.11	8.04	8.00	8.16	8.05		
Conductivity	0.742	0.729	0.726	0.721	0.723	0.722		
DO	9.74	9.53	9.20	8.92	8.62	8.63		
Sal	0.03	0.02	0.02	0.02	0.02	0.02		

Time sample was collected: 2:25 pm

COMMENTS

MW-16

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596-12
Site Location: By West Access Road
Sample Date: 07/23/03
Weather: Overcast
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: MW-16 at corner
Location: West P.L., By Road
Casing Diameter: 2"

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

Depth to water, below top of casing: 12' 9 7/8" = 12.82'
Depth to bottom of the well: 23.27
Length of water column in well: 10.45

Volume of water in well casing, gallons: 1.70
3 Well volumes (= length water column X gal/foot X 3): 5.1 gal
Actual volume purged prior to sampling: 5.50
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Dedicated bailer to sample

Well Recharged? Yes
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1	2	3	4	5	5.5	
Turbidity	>999	>999	79	381	243	208	27	
Temperature	16.2	16.1	16.2	16.3	17.0	16.7	16.4	
pH	8.15	8.09	8.03	7.98	8.04	8.05	8.06	
Conductivity	1.07	1.08	1.06	1.05	1.06	1.05	1.04	
DO	10.64	10.55	11.31	11.12	11.07	11.10	10.90	
Sal	0.04	0.04	0.04	0.04	0.04	0.04	0.04	

Time sample was collected: 12:10 pm

COMMENTS

MW-17

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 55 96.12
Site Location: MW-17
Sample Date: Weds 07/23/03
Weather: Overcast
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: MW-17 fence
Location: North property line
Casing Diameter: 2"

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

Depth to water, below top of casing: 12'5 7/8" = 12.43
Depth to bottom of the well: 25.18
Length of water column in well: 12.75

Volume of water in well casing, gallons: 2.07
3 Well volumes (= length water column X gal/foot X 3): 6.23
Actual volume purged prior to sampling: 6.50
Sampling Methodology: peristaltic pump to Develop
Sampling Equipment: Dedicated bailer to Sample

Well Recharged? YES
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged In Gallons							
	0.25	1	2	3	4	5	6	6.50
Turbidity	>999	>999	>999	622	414	360	326	305
Temperature	18.5	18.4	17.9	18.3	18.3	17.8	18.0	18.1
pH	8.00	8.05	8.02	8.03	7.99	8.07	8.07	8.07
Conductivity	0.842	0.791	0.781	0.774	0.780	0.774	0.776	0.786
DO	9.74	9.94	9.51	9.54	9.37	9.41	9.80	9.18
Sal	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

Time sample was collected: 1 25 pm

COMMENTS

mw-18

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596.12
Site Location: South side Torrance Place
Sample Date: weds 07123
Weather: Overcast - some Rain
Personnel: ER Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: mw 18 - STOP sign
Location: Torrance Pl. Access Road
Casing Diameter: 2"

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

Depth to water, below top of casing: 7 7½ = 9.64'
Depth to bottom of the well: ~ 20'
Length of water column in well: 10.36

True T.O.C. exact 25.0' another 2.4 gal

Volume of water in well casing, gallons: 1.69
3 Well volumes (= length water column X gal/foot X 3): 5.07
Actual volume purged prior to sampling: 6.0
Sampling Methodology: Dedicated Bailer to Sample
Sampling Equipment: After purged using peristaltic pump

Well Recharged? NO - slow slow! Lots turbidity
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1	2	3	4.0	5.0	6.0	
Turbidity	>999	>999	>999	>999	907	>999	>999	
Temperature	13.60	14.0	15.4	NA	18.5	15.7	18.6	
pH	7.93	8.05	8.14		8.06	8.10	8.12	
Conductivity	0.687	0.655	0.603		0.593	0.681	0.636	
DO	9.27	9.10	8.39		8.24	10.07	8.37	
Sal	0.02	0.02	0.02		0.02	0.02	0.02	

Time sample was collected: FINAL ~2:45pm

COMMENTS took ~ 4 hours to purge
several Attempts
well pumped Dry
even at lowest pump rate

mw-19

GROUNDWATER SAMPLING WORKSHEET

PROJECT NAME: Gowanda VCA
Project Number: 5596.12
Site Location: mw-19
Sample Date: 07/23/03
Weather: overcast in AM
Personnel: Ed Jones

BERGMANN associates

GROUNDWATER SAMPLE POINT

Well Number: mw-19 95 Torrance
Location: North side of Torrance place
Casing Diameter: 2"

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

Depth to water, below top of casing: 9'5" = 9.42'
Depth to bottom of the well: 18.3'
Length of water column in well: 8.88ft

Volume of water in well casing, gallons: 1.45 gal
3 Well volumes (= length water column X gal/foot X 3): 4.34 gal
Actual volume purged prior to sampling: 5.0
Sampling Methodology: peristaltic pump to purge
Sampling Equipment: Dedicated bailer to sample

Well Recharged? Yes - Nicely!
Required Analysis: VOCs only

FIELD PARAMETER MEASUREMENTS

Parameter	Accumulated Volume Purged in Gallons							
	0.25	1.0	2.0	3.0	4.0	4.5	5.0	
Turbidity	>999	999	999	66	425	71	59	
Temperature	15.4	14.9	15.0	15.0	15.2	15.3	15.3	
pH	8.26	8.13	8.08	8.12	8.11	8.14	8.11	
Conductivity	0.168	1.13	1.14	1.14	1.16	1.17	1.17	
DO	4.53	9.73	9.86	10.05	9.96	9.86	9.81	
Sal	0.04	0.04	0.05	0.05	0.05	0.05	0.05	

Time sample was collected: 9.5° Am

COMMENTS
1) Collected a duplicate sample
2) well was Removed After Sampling Boring Backfilled & re-seeded

APPENDIX 3

Soil Gas Sampling Laboratory Analytical Report

Columbia Analytical Services, Inc.
An Employee - Owned Company

Air Quality Laboratory
2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Chain of Custody Record
Analytical Service Request

Client/Address: Bergmann Associates, 200 First Federal Plaza, 28 E. Main St, Rochester, NY 14614	Project Name: Gowanda - DDSO Facility	Analysis	CAS Project No.
Phone: 585 232 5135 Fax: 585 232 4652	Project Number: 5596.12		Cooler / Blank: Temp ____
Email: Fwsmith@bergmannPC.com	Sampling Location: Gowanda, NY		
Contact: Barry Fushuk	Sampler (Signature): Mark Schuyler		Comments (e.g., preservative or specific instructions)
	P.O. #/Billing Information		

Client Sample ID	Date Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial #)	Flow Controller (Serial #)	Sample Volume (Liters)	Client Specific List TO-15	Expedited Turnaround Time 24 Hr 48 Hr 3 Day 4 Day 5 Day Standard (10 Business Days)
SG-101	6/12/03	1325 TO 1325		Soil Gas	SC00491			X	
SG-102	6/12/03	1335 TO 1335			SC00360			X	
SG-103	6/12/03	1345 TO 1445			SC00270			X	
SG-104	6/12/03	1137 TO 1237			SC00251			X	
SG-105	6/12/03	1125 TO 1225			SC00242			X	
SG-106	6/12/03	1119 TO 1219			SC00393			X	
SG-107	6/12/03	1111 TO 1211			SC00473			X	
SG-108	6/12/03	1055 TO 1155			SC00504			X	
SG-109	6/12/03	1049 TO 1149			SC00436			X	
SG-110	6/12/03	1315 TO 1415		Soil Gas	SC00037			X	

	Date:	Time:	Received by: (Signature)	Date:	Time:	Additional Comments
Relinquished by: (Signature)	6/12/03	1710		6/12/03	1710	TCE, cis DCE, VC, Trans DCE
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	

White Copy: Accompanies Samples — Yellow Copy: Retained by Client

Gowanda Day Habilitation Center
4 Industrial Place, Gowanda, Cattaraugus County, NY
Test Point Installation Date: 6/11/03
Test Point Sample Date: 6/12/03
Tubing Interior Diameter:
Sample Date: 6/12/03
Soil Gas Sampling Methodology: SUMMA CAN

Soil Gas est Point	Proposed Location	Actual Location, Depth & Length of Tubing	Soil Gas VOCs at ~~Installation~~	Summa Start/Stop Times	Soil Gas VOCs at Collection
SG-101	48 feet. West of MW-7 By asphalt access Road, in line with existing/wells, at fence. SC491		ND	Start: 1325 Stop: 1425	H2O RD 28" Hg PRE 27.5" Hg POST
G-102	8.0 feet Northeast of MW-7, adjacent to fence SC388		ND	Start: 1335 Stop: 1435	PID = ND 28" Hg PRE 3.5" Hg POST
SG-103	50 feet East of MW-7, adjacent to fence SC270		ND	Start: 1345 Stop: 1445	PID = ND 28" Hg PRE 3.5" Hg POST
G-104	90 feet east of MW-7, adjacent to fence, next to B-24 SC251		ND	Start: 1137 Stop: 1237	PID = ND 28" Hg PRE 3.5" Hg POST
SG-105	120 feet east of MW-7, adjacent to fence, 26 feet west of MW-6 SC242		ND	Start: 1125 Stop: 1225	PID = ND 28" Hg PRE 3" Hg POST
SG-106	8.0 feet northeast of MW-6, adjacent to fence SC393		ND	Start: 1119 Stop: 1219	PID = ND 28" PRE 19.5 POST
G-107	45 feet east of MW-6, adjacent to fence, 38 feet west of MW-5 SC473		ND	Start: 1111 Stop: 1211	PID = ND 28" Hg PRE 23.5" POST
G-108	86 feet east of MW-6, adjacent to fence, 10 feet northeast of MW-5 SC584		ND	Start: 1055 Stop: 1155	PID = ND 29.0" Hg PRE 3.5" Hg POST
SG-109	83 feet of MW-5, adjacent to fence, 6 feet north of B-20 SC456		ND	Start: 1049 Stop: 1149	PID = ND 28.5" Hg PRE NO Hg POST
G-110	In Grass ballfield, at B-17 155 feet south of MW-9 SC037		ND	Start: 1315 Stop: 1415	PID = ND 28" PRE 3.25 Hg POST

Columbia Analytical Services, Inc.
An Employee - Owned Company

LABORATORY REPORT

SOCIATES		Date of Report:	07/01/03
Address:	200 First Federal Plaza 28 East Main Street Rochester, NY 14614	Date Received:	06/13/03
		CAS Project No:	P2301154
Contact:	Mr. Edward Jones	Purchase Order:	12040
Client Project ID: Gowanda-DDSO Facility/5596.12		New York Lab ID:	11221

Ten (10) Stainless Steel Summa Canisters labeled: "SG-101" through "SG-110"

The samples were received at the laboratory under chain of custody on June 13, 2003. The samples were received intact. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time that they were received at the laboratory.

Volatile Organic Compound Analysis

The samples were analyzed by combined gas chromatography/mass spectrometry (GC/MS) for selected volatile organic compounds. The analyses were performed according to the methodology outlined in EPA Method TO-15. The analyses were performed by gas chromatography/mass spectrometry, utilizing a direct cryogenic trapping technique. The analytical system used was comprised of a Hewlett Packard Model 5973 GC/MS/DS interfaced to a Tekmar AutoCan Elite whole air inlet system/cryogenic concentrator. A 100% Dimethylpolysiloxane capillary column (RT_x-1, Restek Corporation, Bellefonte, PA) was used to achieve chromatographic separation.

The results of analyses are given on the attached data sheets. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Reviewed and Approved:

Svetlana Walsh
Analytical Chemist
Air Quality Laboratory

Reviewed and Approved:

Chris Parnell
GCMS-VOA Team Leader
Air Quality Laboratory

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ACIL Seal of Excellence Laboratory

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Chain of Custody Record
Analytical Service Request

Client/Address: Bergmann Associates, 200 First Federal Plaza, 28 E. Main St, Rochester, NY 14614	Project Name: Gowanda - DPW Facility	Analysis	CAS Project No.: R2301154
Phone: 585 232 5135 Fax: 585 232 4652	Project Number: 5596.12		Cooler / Blank Temp:
Email: fusnik@bergmannpc.com	Sampling Location: Gowanda, NY		
Contact: Greg Fusnik	Sampler (Signature): MALONE		Comments (e.g., preservative or specific instructions)

Client Sample ID	Date Collected	Time Collected	Lab Sample No.	Type of Sample	Container ID (Serial #)	Flow Controller (Serial #)	Sample Volume (Liters)	Client Specific List TO-15	Expected Turnaround Time: 24 Hr 48 Hr 72 Hr 4 Day 5 Day Standard (10 Business Days)
SG-101	6/12/03	1325 TO 1425		SOIL GAS	SC00491			X	
SG-102	6/12/03	1335 TO 1435			SC00360			X	
SG-103	6/12/03	1345 TO 1445			SC00270			X	
SG-104	6/12/03	1137 TO 1237			SC00251			X	
SG-105	6/12/03	1129 TO 1225			SC00242			X	
SG-106	6/12/03	1119 TO 1219			SC00393			X	
SG-107	6/12/03	1111 TO 1211			SC00403			X	
SG-108	6/12/03	1055 TO 1155			SC00504			X	
SG-109	6/12/03	1049 TO 1149			SC00436			X	
SG-110	6/12/03	1315 TO 1415		SOIL GAS	SC00037			X	

	Date:	Time:	Received by: (Signature)	Date:	Time:	Additional Comments
Relinquished by: (Signature)	6/12/03	1710	FED-EX	6/12/03	1710	TCE cis DCE VC Trans DCE
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature) Aharon Malone	6/13/03	11:00	
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	

White Copy: Accompanies Samples — Yellow Copy: Retained by Client

ACKNOWLEDGMENT OF RECEIPT OF SAMPLES

TO: Mr. Edward Jones
Bergmann Associates 585-232-4652
FROM: Client Services - Kate Aguilera
Columbia Analytical Services, Inc.

This is to inform you that the sample(s) received on 6/13/03
for your project Gowanda-DDSO Facility/5596.12
have been assigned CAS service request number P2301154

A signed copy of your Chain of Custody Form is attached. If you have any questions regarding the status of this work, please call me at (805) 526-7161 .

Thank you for your business.

Number of pages (including cover sheet): 2

Columbia Analytical Services, Inc.
2665 Park Center Drive, Suite D
Simi Valley, CA 93065
Voice: (805) 526-7161
Fax: (805) 526-7270

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Bergmann Associates Work order: P2301154

Project: Gowanda-DDSO Facility/5596.12

Sample(s) received on: 6/13/03 Date opened: 6/13/03 by: SM

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client or as required by the method/SOP.

		Yes	No	N/A
1	Were **custody seals** on outside of cooler/Box?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
	Were custody seals on outside of sample container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
2	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
3	Did **sample containers** arrive in good condition?	☒	☐	☐
4	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
5	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
6	Was **sample volume** received adequate for analysis?	☒	☐	☐
7	Are samples within specified holding times?	☒	☐	☐
8	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
	Cooler Temperature NA °C			
	Blank Temperature NA °C			
9	Is pH (acid) **preservation** necessary, according to method/SOP or Client specified information?	☐	☒	☐
	Is there a client indication that the submitted samples are **pH** (acid) preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
	Do they contain moisture?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Required pH	pH (as received, if required)	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P2301154-001			NA	
P2301154-002			NA	
P2301154-003			NA	
P2301154-004			NA	
P2301154-005			NA	
P2301154-006			NA	
P2301154-007			NA	
P2301154-008			NA	
P2301154-009			NA	
P2301154-010			NA	

Explain any discrepancies: (include lab sample ID numbers):

Columbia Analytical Services, Inc.
An Employee - Owned Company

Air Quality Laboratory
2665 Park Center Drive, Suite D
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Chain of Custody Record
Analytical Service Request

Client/Address: Bergmann Associates, 200 First Federal Plaza, 28 E. Main St, Rochester, NY 14614
Phone: 585 232 5135 Fax: 585 232 4052
Email: fusaik@bergmannpc.com
Contact: Gary Fusaik
Sampler (Signature): [signature]

Project Name: Seneca - DDSO Facility
Project Number: 5596.12
Sampling Location: Seneca, NY
P.O. #/Billing Information:

CAS Project No.: R2301154

Analysis: Client Specific List TO-15

Expected Turnaround Time: 24 Hr 48Hr 72Hr 4Day 5Day Standard (10 Business Days)

Cooler / Blank Temp:

Comments (e.g., preservative or specific instructions)

Client Sample ID	Date Collected	Time Collected	Lab Sample No	Type of Sample	Container ID (Serial #)	Flow Controller (Serial #)	Sample Volume (Liters)	Client Specific List TO-15
SG-101	6/12/03	1325 TO 1425		SOIL-GAS	SC00491			X
SG-102	6/12/03	1335 TO 1435			SC00360			X
SG-103	6/12/03	1345 TO 1445			SC00276			X
SG-104	6/12/03	1137 TO 1237			SC00251			X
SG-105	6/12/03	1125 TO 1225			SC00242			X
SG-106	6/12/03	1119 TO 1219			SC00393			X
SG-107	6/12/03	1111 TO 1211			SC00473			X
SG-108	6/12/03	1055 TO 1155			SC00504			X
SG-109	6/12/03	1049 TO 1149			SC00436			X
SG-116	6/12/03	1315 TO 1415		SOIL-GAS	SC00037			X

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
[signature]	6/12/03	1710	FED-EX	6/12/03	1710
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature) Aharon Malone	Date: 6/13/03	Time: 11:00
Relinquished by: (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:

Additional Comments: TCE cis DCE VC Trans DCE

White Copy: Accompanies Samples — Yellow Copy: Retained by CAS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Bergmann Associates**
Client Sample ID: **SG-101**
Client Project ID: **Gowanda-DDSO Facility/5596.12**

CAS Project ID: P2301154
CAS Sample ID: P2301154-001

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00491

Date Collected: 6/12/03
Date Received: 6/13/03
Date(s) Analyzed: 6/24/03
Volume(s) Analyzed: 1.00 Liter(s)

Pi 1 = -14.2 Pf 1 = 3.5

D.F. 36.40

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	18	ND	7.1	
156-60-5	trans-1,2-Dichloroethene	ND	18	ND	4.6	
156-59-2	cis-1,2-Dichloroethene	ND	18	ND	4.6	
79-01-6	Trichloroethene	ND	18	ND	3.4	

ND Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KHH Date: 07/07/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Bergmann Associates**
Client Sample ID: **SG-102**
Client Project ID: **Gowanda-DDSO Facility/5596.12**

CAS Project ID: P2301154
CAS Sample ID: P2301154-002

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00360

Date Collected: 6/12/03
Date Received: 6/13/03
Date(s) Analyzed: 6/24/03
Volume(s) Analyzed: 0.50 Liter(s)

Pi 1 = -1.9 Pf 1 = 3.5

D.F. = 1.42

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.4	ND	0.56	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.36	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ND	0.36	
79-01-6	Trichloroethene	**1.6**	1.4	**0.30**	0.26	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit.**
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: [illegible] Date: 6/26/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: Bergmann Associates
Client Sample ID: SG-103
Client Project ID: Gowanda-DDSO Facility/5596.12

CAS Project ID: P2301154
CAS Sample ID: P2301154-003

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00270

Date Collected: 6/12/03
Date Received: 6/13/03
Date(s) Analyzed: 6/25/03
Volume(s) Analyzed: 0.50 Liter(s)

Pi 1 = 1.9 Pf 1 = 3.5

D.F. 1.42

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.4	ND	0.56	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.36	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ND	0.36	
79-01-6	Trichloroethene	ND	1.4	ND	0.26	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: BMH Date: 07/07/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: Bergmann Associates
Client Sample ID: SG-104
Client Project ID: Gowanda-DDSO Facility/5596.12

CAS Project ID: P2301154
CAS Sample ID: P2301154-004

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00251

Date Collected: 6/12/03
Date Received: 6/13/03
Date(s) Analyzed: 6/25/03
Volume(s) Analyzed: 0.50 Liter(s)

Pi 1 = -1.8 Pf 1 = 3.5

D.F. = 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.4	ND	0.55	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.36	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ND	0.36	
79-01-6	Trichloroethene	65	1.4	12	0.26	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 07/07/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Bergmann Associates**
Client Sample ID: **SG-105**
Client Project ID: **Gowanda-DDSO Facility/5596.12**

CAS Project ID: P2301154
CAS Sample ID: P2301154-005

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00242

Date Collected: 6/12/03
Date Received: 6/13/03
Date(s) Analyzed: 6/25/03
Volume(s) Analyzed: 0.50 Liter(s)

Pi I -1.9 Pf I = 3.5

D F. = 1.42

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75 01-4	Vinyl Chloride	ND	1.4	ND	0.56	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.36	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ND	0.36	
79-01-6	Trichloroethene	ND	1 4	ND	0.26	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: EMH Date: 07/07/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: Bergmann Associates
Client Sample ID: SG-106
Client Project ID: Gowanda-DDSO Facility/5596.12

CAS Project ID: P2301154
CAS Sample ID: P2301154-006

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00393

Date Collected: 6/12/03
Date Received: 6/13/03
Date(s) Analyzed: 6/25/03
Volume(s) Analyzed: 0.50 Liter(s)

Pi I = -10.1 Pf I = 3.5

D.F. = 3.96

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	4.0	ND	1.5	
156 60-5	trans-1,2-Dichloroethene	ND	4.0	ND	1.0	
156-59-2	cis-1,2-Dichloroethene	ND	4.0	ND	1.0	
79-01 6	Trichloroethene	ND	4.0	ND	0.74	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 07/07/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Bergmann Associates**
Client Sample ID: **SG-107** CAS Project ID: P2301154
Client Project ID: **Gowanda-DDSO Facility/5596.12** CAS Sample ID: P2301154-007

Test Code: EPA TO-15 Date Collected: 6/12/03
Instrument ID: HP5973/Tekmar AUTOCan Elite Date Received: 6/13/03
Analyst: Svetlana Walsh Date(s) Analyzed: 6/25/03
Sampling Media: Summa Canister Volume(s) Analyzed: 0.50 Liter(s)
Test Notes:
Container ID: SC00473

Pi I = -12.1 Pf I = 3.5

D.F. = 7.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	7.0	ND	2.7	
156-60-5	trans-1,2-Dichloroethene	ND	7.0	ND	1.8	
156-59-2	cis-1,2-Dichloroethene	ND	7.0	ND	1.8	
79-01-6	Trichloroethene	ND	7.0	ND	1.3	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: PMH Date: 07/01/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Bergmann Associates**
Client Sample ID: **SG-108** CAS Project ID: P2301154
Client Project ID: **Gowanda-DDSO Facility/5596.12** CAS Sample ID: P2301154-008

Test Code: EPA TO-15 Date Collected: 6/12/03
Instrument ID: HP5973/Tekmar AUTOCan Elite Date Received: 6/13/03
Analyst: Svetlana Walsh Date(s) Analyzed: 6/26/03
Sampling Media: Summa Canister Volume(s) Analyzed: 0.50 Liter(s)
Test Notes:
Container ID: SC00584

Pi 1 = -1.8 Pf 1 = 3.5

D.F. = 1.41

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.4	ND	0.55	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.36	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ND	0.36	
79-01-6	Trichloroethene	ND	1.4	ND	0.26	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 07/07/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Bergmann Associates**
Client Sample ID: **SG-109**
Client Project ID: **Gowanda-DDSO Facility/5596.12**

CAS Project ID: P2301154
CAS Sample ID: P2301154-009

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00436

Date Collected: 6/12/03
Date Received: 6/13/03
Date(s) Analyzed: 6/26/03
Volume(s) Analyzed: 0.50 Liter(s)

Pi I = 0.0 Pf I = 3.5

D.F. = 1.24

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.2	ND	0.49	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	ND	0.31	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	ND	0.31	
79-01-6	Trichloroethene	ND	1.2	ND	0.23	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 07/07/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Bergmann Associates**
Client Sample ID: **SG-110**
Client Project ID: **Gowanda-DDSO Facility/5596.12**

CAS Project ID: P2301154
CAS Sample ID: P2301154-010

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:
Container ID: SC00037

Date Collected: 6/12/03
Date Received: 6/13/03
Date(s) Analyzed: 6/26/03
Volume(s) Analyzed: 0.50 Liter(s)

Pi I = -2.0 Pf 1 = 3.5

D.F. = 1.43

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	1.4	ND	0.56	
156 60-5	trans-1,2-Dichloroethene	ND	1.4	ND	0.36	
156-59-2	cis-1,2-Dichloroethene	ND	1.4	ND	0 36	
79-01-6	Trichloroethene	ND	1.4	ND	0.27	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 07/07/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **Bergmann Associates**
Client Sample ID: **Method Blank** CAS Project ID: P2301154
Client Project ID: **Gowanda-DDSO Facility/5596.12** CAS Sample ID: P030624-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: HP5973/Tekmar AUTOCan Elite Date Received: NA
Analyst: Svetlana Walsh Date(s) Analyzed: 6/24/03
Sampling Media: Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.50	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	ND	0.13	
156-59-2	cis-1,2-Dichloroethene	ND	0.50	ND	0.13	
79-01-6	Trichloroethene	ND	0.50	ND	0.093	

ND = Compound was analyzed for, but not detected above the **laboratory reporting limit**.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KMH Date: 07/07/03

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: Bergmann Associates
Client Sample ID: Method Blank
Client Project ID: Gowanda-DDSO Facility/5596.12

CAS Project ID: P2301154
CAS Sample ID: P030625-MB

Test Code: EPA TO-15
Instrument ID: HP5973/Tekmar AUTOCan Elite
Analyst: Svetlana Walsh
Sampling Media: Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date(s) Analyzed: 6/25/03
Volume(s) Analyzed: 1.00 Liter(s)

D.F. = 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
75-01-4	Vinyl Chloride	ND	0.50	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	ND	0.13	
156-59-2	cis-1,2-Dichloroethene	ND	0.50	ND	0.13	
79-01-6	Trichloroethene	ND	0.50	ND	0.093	

ND Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: KHH Date: 07/07/03

APPENDIX 4

Chain-of-Custody Forms and 2003 Laboratory Analytical Report

Chain of Custody Record

SEVERN TRENT SERVICES **Severn Trent Laboratories, Inc.**

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
			112570
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1
City / State / Zip Code	Site Contact	Lab Contact	
Project Name and Location (State)	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis (Attach list if more space is needed): VOC	Special Instructions/ Conditions of Receipt
SO70903EJmw17-20	07/09/03	17				X	X						X	
SO70903EJmw16-12	07/09/03	12:40				X	X						X	
SO70903EJmw12-15'	07/09/03	14:05				X	X						X	ASP Deliverable
SO70903EJmw18-12'	07/09/03	15:10				X	X						MS-VOCs	ASP-MS
SO70903EJmw18-12'	07/09/03	15:10				X	X						MSD-VOCs	ASP MS D
SO70903EJmw19-12'	07/09/03	16:20				X	X						X	
[illegible]						X	X						X	
W070903EJMW18B		15:10		X						X			X	
W070903EJMW19B				X						X			X	ASP

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (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

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1	Edward Flores	07/11/03	15:30	STL	7-11-03	15:30
2						
3						

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT SERVICES — **Severn Trent Laboratories, Inc.**

STL-4124 (0901)

Client	Project Manager	Date	Chain of Custody Number
[illegible]	[illegible]	07/23/03	112836
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
[illegible]	[illegible]		
City [illegible]	**State** NH	**Zip Code** [illegible]	**Site Contact** —	**Lab Contact** [illegible]
Project Name and Location (State) [illegible] VCS	**Carrier/Waybill Number**		
Contract/Purchase Order/Quote No. [illegible]-12			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed)
[illegible] 08	[illegible]	[illegible]		X						X			X
[illegible] 10	[illegible]	[illegible]		X						X			X
[illegible]	[illegible]	[illegible]		X						X			X
[illegible] 01	07/22/03	12 [illegible]		X						X			X
W0722030T-03	[illegible]	[illegible]		X						X			X
W0722050-02	07/22/03	14 [illegible]		X						X			X
[illegible]	[illegible]	[illegible]		X						X			X
[illegible] 14	[illegible]	[illegible]		X						X			X
[illegible]	[illegible]	[illegible]		X						X			X
[illegible] 06	[illegible]	12 [illegible]		X						X			X
[illegible] 07													
W0723030-19	[illegible]	[illegible]		X						X			X

Special Instructions/ Conditions of Receipt: ASP

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For: _____ Months (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

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
[illegible]	07/23/03	17 05	[illegible]		
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report, CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

SEVERN TRENT SERVICES — **Severn Trent Laboratories, Inc.**

STL 4124 (0501)

Client: Benjamin Associates	Project Manager: Edward Stone	Date: 07/23/03	Chain of Custody Number: 112837
Address: [redacted] Federal Blvd	Telephone Number (Area Code)/Fax Number: [redacted]	Lab Number:	Page 2 of 2
City: Rochester / State: NY / Zip Code: 146[illegible]	Site Contact:	Lab Contact: [illegible]	Analysis (Attach list if more space is needed)
Project Name and Location (State): [illegible] NY	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: [illegible]-12			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Special Instructions/ Conditions of Receipt
[illegible]-17D	07/23/03	9[illegible]		X						X			
W072[illegible]-16	07/[illegible]	[illegible]		X						X			A,P
[illegible]	[illegible]	[illegible]		X						X			ASP
[illegible]	[illegible]	[illegible]		X						X			ASP MS # 17
[illegible]	[illegible]	[illegible]		X						X			ASP MSD # 17
[illegible]-15	07/23/03	14[illegible]		X						X			
[illegible]	[illegible]	[illegible]		X						X			
W07[illegible]-01	07/23/03	[illegible]		X						X			
W07[illegible]-11	07/[illegible]			X						X			
[illegible]-12	07/23/03	1745		X						X			ASP
W[illegible]	[illegible]	1720		X						X			
T.S.				X						X			ASP

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (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

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Edward Stone	07/23/03	11:05	1. Received By: [illegible]	[illegible]	[illegible]
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

August 8, 2003

Mr. Edward Jones
Bergmann Associates
28 East Main St.
Rochester, NY 14614

RE: Revised Analytical Report

Dear Mr. Jones:

Please find enclosed revised analytical results concerning the samples submitted by your firm. Specifically, the undiluted data for samples W072303 EJ-17 and W072303 EJ-12 have been numbered for replacement and/or insertion into the original report. The pertinent information regarding these analyses is listed below:

Site Name: Gowanda Day Habilitation Center
STL Project#: NY2A8896

If you have any questions concerning these data, please contact me 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. #A03-7045
#NY2A8896

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000017A

Client No.

W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	7	
156-59-2	cis-1,2-Dichloroethene	2300	E
156-60-5	trans-1,2-Dichloroethene	24	
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000017B

Client No.

W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	3400	E
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	22	
1330-20-7	Total Xylenes	15	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

000017C

Client No.

W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/200

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000023A

Client No.

W072303 EJ-17 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1780.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	570	E
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
98-82-8	Isopropylbenzene	5	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000023B

Client No.

W072303 EJ-17 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1780.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	350	E
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	4	J
1330-20-7	Total Xylenes	15	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

000023 C

Client No.

W072303 EJ-17 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1780.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000083

Client No.: W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	7	
156-59-2	cis-1,2-Dichloroethene	2300	E
156-60-5	trans-1,2-Dichloroethene	24	
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000083 B

Client No.

W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	3400	E
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	22	
1330-20-7	Total Xylenes	15	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

000083

Client No.

W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

SEVERN TRENT STL

ANALYTICAL REPORT

Job#: A03-7044

STL Project#: NY2A8896
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center
Task: SW8463 DELIVERABLES

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

STL Buffalo

Brian J. Fischer
Project Manager

07/31/2003

Severn Trent Laboratories, Inc.
STL Buffalo • 10 Hazelwood Drive, Suite 106, Amherst, NY 14228
Tel 716 691 2600 Fax 716 691 7991 • www.stl-inc.com

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A3704412	W072203 EJ-02	07/22/2003	14:35	07/23/2003	19:25
A3704411	W072203 EJ-03	07/22/2003	13:40	07/23/2003	19:25
A3704409	W072203 EJ-04	07/22/2003	11:30	07/23/2003	19:25
A3704413	W072203 EJ-05	07/22/2003	15:30	07/23/2003	19:25
A3704416	W072203 EJ-06	07/22/2003	19:15	07/23/2003	19:25
A3704417	W072203 EJ-07	07/22/2003	20:00	07/23/2003	19:25
A3704407	W072203 EJ-08	07/22/2003	09:00	07/23/2003	19:25
A3704410	W072203 EJ-09	07/22/2003	12:30	07/23/2003	19:25
A3704408	W072203 EJ-10	07/22/2003	10:15	07/23/2003	19:25
A3704415	W072203 EJ-13	07/22/2003	18:15	07/23/2003	19:25
A3704414	W072203 EJ-14	07/22/2003	17:15	07/23/2003	19:25
A3704404	W072303 EJ-01	07/23/2003	15:50	07/23/2003	19:25
A3704405	W072303 EJ-11	07/23/2003	16:50	07/23/2003	19:25
A3704402	W072303 EJ-15	07/23/2003	14:25	07/23/2003	19:25
A3704403	W072303 EJ-18	07/23/2003	14:45	07/23/2003	19:25
A3704401	W072303 EJ-19D	07/23/2003	09:50	07/23/2003	19:25
A3704406	W072303 FB-12	07/23/2003	17:50	07/23/2003	19:25

METHODS SUMMARY

Job#: A03-7044

SIL Project#: NY2A8896
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

PARAMETER	ANALYTICAL METHOD
BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS	SW8463 8260/SML

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#: A03-7044

STL Project#: NY2A8895
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

A03-7044
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
Sample W072303 EJ-FB-12 from the COC was labeled W072303 EJ-FB-11 on the bottle label. This sample was logged in using the COC ID (W072303 EJ-FB-12).

GC/MS Volatile Data

STL Buffalo internal validation report is included in this report as Appendix A.

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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 data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Brian J. Fischer
Project Manager

7-31-03
Date

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
W072303 EJ-15DL	A37044020L	8260/5ML	2.00	008
W072303 EJ-01DL	A37044041	8260/5ML	20.00	008
W072303 EJ-11	A3704405	8260/5ML	20.00	008
W072303 EJ-11DL	A37044050L	8260/5ML	200.00	008
W072203 EJ-06	A3704416	8260/5ML	2.00	008
W072203 EJ-07	A3704417	8260/5ML	2.00	008
W072203 EJ-07DL	A3704417DL	8260/5ML	4.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
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 at or above the reporting limit.
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.
1	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 at or above the reporting limit.
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.

Sample Data Package

Client ID		W072203 EJ-02		W072203 EJ-03		W072203 EJ-04		W072203 EJ-05	
Job No	Lab ID	A03-7044	A3704412	A03-7044	A3704411	A03-7044	A3704409	A03-7044	A3704413
Sample Date		07/22/2003		07/22/2003		07/22/2003		07/22/2003	

Analyte	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	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	5.0	ND	5.0	ND	5.0	ND	5.0
2-Butanone	UG/L	ND	25	ND	25	ND	25	ND	25
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	5.0	ND	5.0	ND	5.0	ND	5.0
Chlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
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	7.1	5.0	3.1 J	5.0	1.8 J	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	25	ND	25	ND	25	ND	25
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	25	ND	25	ND	25	ND	25
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

NA = Not Applicable ND = Not Detected

Client ID		W072203 EJ-02		W072203 EJ-03		W072203 EJ-04		W072203 EJ-05	
Job No	Lab ID	A03-7044	A3704412	A03-7044	A3704411	A03-7044	A3704409	A03-7044	A3704413
Sample Date		07/22/2003		07/22/2003		07/22/2003		07/22/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Trichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	7.3	5.0
Trichlorofluoromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Vinyl chloride	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Total Xylenes	UG/L	ND	15	ND	15	ND	15	ND	15
n-Propylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
p-Cymene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2,4-Trimethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,3,5-Trimethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
n-Butylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
sec-Butylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
IS/SURROGATE(S)									
Chlorobenzene-D5	%	72	50-200	77	50-200	86	50-200	71	50-200
1,4-Difluorobenzene	%	77	50-200	79	50-200	88	50-200	73	50-200
1,4-Dichlorobenzene-D4	%	67	50-200	68	50-200	82	50-200	63	50-200
Toluene-D8	%	102	77-122	100	77-122	95	77-122	101	77-122
p-Bromofluorobenzene	%	90	74-120	90	74-120	87	74-120	90	74-120
1,2-Dichloroethane-D4	%	100	73-136	100	73-136	102	73-136	104	73-136

NA - Not Applicable ND - Not Detected

Client ID		WO72203 EJ-06		WO72203 EJ-07		WO72203 EJ-07DL		WO72203 EJ-08	
Job No / Lab ID		A03-7044	A3704416	A03-7044	A3704417	A03-7044	A3704417DL	A03-7044	A3704407
Sample Date		07/22/2003		07/22/2003		07/22/2003		07/22/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	50	ND	50	ND	100	ND	25
Benzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
Bromodichloromethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Bromoform	UG/L	ND	10	ND	10	ND	20	ND	5.0
Bromomethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
2-Butanone	UG/L	ND	50	ND	50	ND	100	ND	25
Carbon Disulfide	UG/L	ND	10	ND	10	ND	20	ND	5.0
Carbon Tetrachloride	UG/L	ND	10	ND	10	ND	20	ND	5.0
Chloromethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Chlorobenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
Chloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Cyclohexane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Chloroform	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2-Dibromo-3-chloropropane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Dibromochloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Dichlorodifluoromethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2-Dibromoethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2-Dichlorobenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,3-Dichlorobenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,4-Dichlorobenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,1-Dichloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2-Dichloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,1-Dichloroethene	UG/L	ND	10	ND	10	ND	20	ND	5.0
cis-1,2-Dichloroethene	UG/L	330	10	470 E	10	510 D	20	ND	5.0
trans-1,2-Dichloroethene	UG/L	3.4 J	10	2.2 J	10	ND	20	ND	5.0
1,2-Dichloropropane	UG/L	ND	10	ND	10	ND	20	ND	5.0
cis-1,3-Dichloropropene	UG/L	ND	10	ND	10	ND	20	ND	5.0
trans-1,3-Dichloropropene	UG/L	ND	10	ND	10	ND	20	ND	5.0
Ethylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
2-Hexanone	UG/L	ND	50	ND	50	ND	100	ND	25
Isopropylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
Methyl acetate	UG/L	ND	10	ND	10	ND	20	ND	5.0
Methylene chloride	UG/L	ND	10	ND	10	ND	20	ND	5.0
Methyl tert butyl ether	UG/L	ND	10	ND	10	ND	20	ND	5.0
4-Methyl-2-pentanone	UG/L	ND	50	ND	50	ND	100	ND	25
Methylcyclohexane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Styrene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,1,2,2-Tetrachloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Tetrachloroethene	UG/L	ND	10	ND	10	ND	20	ND	5.0
Toluene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2,4-Trichlorobenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,1,1-Trichloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,1,2-Trichloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		W072203 EJ-06 A03-7044 A3704416 07/22/2003		W072203 EJ-07 A03-7044 A3704417 07/22/2003		W072203 EJ-07DL A03-7044 A37044170L 07/22/2003		W072203 EJ-08 A03-7044 A3704407 07/22/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	10	ND	10	ND	20	ND	5.0
Trichloroethene	UG/L	ND	10	18	10	22 D	20	ND	5.0
Trichlorofluoromethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Vinyl chloride	UG/L	ND	10	ND	10	ND	20	ND	5.0
Total Xylenes	UG/L	ND	30	ND	30	ND	60	ND	15
n-Propylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
p-Cymene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2,4-Trimethylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,3,5-Trimethylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
n-Butylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
sec-Butylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
==========IS/SURROGATE(S)==========									
Chlorobenzene-D5	%	92	50-200	65	50-200	93	50-200	87	50-200
1,4-Difluorobenzene	%	92	50-200	69	50-200	93	50-200	90	50-200
1,4-Dichlorobenzene-D4	%	87	50-200	59	50-200	87	50-200	83	50-200
Toluene-D8	%	92	77-122	101	77-122	92	77-122	95	77-122
p-Bromofluorobenzene	%	90	74-120	90	74-120	90	74-120	87	74-120
1,2-Dichloroethane-D4	%	95	73-136	104	73-136	97	73-136	100	73-136

NA = Not Applicable ND = Not Detected

Client ID		W072203 EJ-09		W072203 EJ-10		W072203 EJ-13		W072203 EJ-14	
Job No	Lab ID	A03-7044	A3704410	A03-7044	A3704408	A03-7044	A3704415	A03-7044	A3704414
Sample Date		07/22/2003		07/22/2003		07/22/2003		07/22/2003	

Analyte	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	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	5.0	ND	5.0	ND	5.0	ND	5.0
2-Butanone	UG/L	ND	25	ND	25	ND	25	ND	25
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	5.0	ND	5.0	ND	5.0	ND	5.0
Chlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
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	15	5.0	66	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	25	ND	25	ND	25	ND	25
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	25	ND	25	ND	25	ND	25
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

NA = Not Applicable ND = Not Detected

Client ID		W072203 EJ-09		W072203 EJ-10		W072203 EJ-13		W072203 EJ-14	
Job No	Lab ID	A03-7044	A3704410	A03-7044	A3704408	A03-7044	A3704415	A03-7044	A3704414
Sample Date		07/22/2003		07/22/2003		07/22/2003		07/22/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Trichloroethene	UG/L	ND	5.0	ND	5.0	16	5.0	74	5.0
Trichlorofluoromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Vinyl chloride	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Total Xylenes	UG/L	ND	15	ND	15	ND	15	ND	15
n-Propylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
p-Cymene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2,4-Trimethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,3,5-Trimethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
n-Butylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
sec-Butylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
IS/SURROGATE(S)									
Chlorobenzene-D5	%	86	50-200	85	50-200	92	50-200	70	50-200
1,4-Difluorobenzene	%	87	50-200	89	50-200	92	50-200	73	50-200
1,4-Dichlorobenzene-D4	%	82	50-200	83	50-200	86	50-200	64	50-200
Toluene-D8	%	94	77-122	96	77-122	93	77-122	101	77-122
p-Bromofluorobenzene	%	87	74-120	88	74-120	90	74-120	90	74-120
1,2-Dichloroethane-D4	%	103	73-136	101	73-136	97	73-136	102	73-136

NA = Not Applicable ND = Not Detected

Client ID		W072303 EJ-01		W072303 EJ-01DL		W072303 EJ-11		W072303 EJ-11DL	
Job No	Lab ID	A03-7044	A3704404	A03-7044	A3704404DL	A03-7044	A3704405	A03-7044	A3704405DL
Sample Date		07/23/2003		07/23/2003		07/23/2003		07/23/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	25	ND	500	ND	500	ND	5000
Benzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Bromodichloromethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Bromoform	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Bromomethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
2-Butanone	UG/L	ND	25	ND	500	ND	500	ND	5000
Carbon Disulfide	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Carbon Tetrachloride	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Chloromethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Chlorobenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Chloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Cyclohexane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Chloroform	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Dibromochloromethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Dichlorodifluoromethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2-Dibromoethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2-Dichlorobenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,3-Dichlorobenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,4-Dichlorobenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,1-Dichloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2-Dichloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,1-Dichloroethene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
cis-1,2-Dichloroethene	UG/L	1800 E	5.0	1700 D	100	20000 E	100	19000 D	1000
trans-1,2-Dichloroethene	UG/L	25	5.0	ND	100	120	100	ND	1000
1,2-Dichloropropane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
cis-1,3-Dichloropropene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
trans-1,3-Dichloropropene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Ethylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
2-Hexanone	UG/L	ND	25	ND	500	ND	500	ND	5000
Isopropylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Methyl acetate	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Methylene chloride	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Methyl tert butyl ether	UG/L	ND	5.0	ND	100	ND	100	ND	1000
4-Methyl-2-pentanone	UG/L	ND	25	ND	500	ND	500	ND	5000
Methylcyclohexane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Styrene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Tetrachloroethene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Toluene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2,4-Trichlorobenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,1,1-Trichloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,1,2-Trichloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		W072303 EJ-01		W072303 EJ-01DL		W072303 EJ-11		W072303 EJ-11DL	
Job No	Lab ID	A03-7044	A3704404	A03-7044	A3704404DL	A03-7044	A3704405	A03-7044	A3704405DL
Sample Date		07/23/2003		07/23/2003		07/23/2003		07/23/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Trichloroethene	UG/L	1500 E	5.0	1100 D	100	16000 E	100	15000 D	1000
Trichlorofluoromethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Vinyl chloride	UG/L	54	5.0	47 DJ	100	49 J	100	ND	1000
Total Xylenes	UG/L	ND	15	ND	300	ND	300	ND	3000
n-Propylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
p-Cymene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2,4-Trimethylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,3,5-Trimethylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
n-Butylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
sec-Butylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
=IS/SURROGATE(S)=									
Chlorobenzene-D5	%	90	50-200	63	50-200	88	50-200	64	50-200
1,4-Difluorobenzene	%	91	50-200	67	50-200	90	50-200	66	50-200
1,4-Dichlorobenzene-D4	%	86	50-200	57	50-200	84	50-200	57	50-200
Toluene-D8	%	95	77-122	102	77-122	95	77-122	100	77-122
p-Bromofluorobenzene	%	88	74-120	92	74-120	88	74-120	91	74-120
1,2-Dichloroethane-D4	%	101	73-136	104	73-136	100	73-136	102	73-136

NA = Not Applicable ND = Not Detected

Client ID		W072303 EJ-15		W072303 EJ-15DL		W072303 EJ-18		W072303 EJ-19D	
Job No	Lab ID	A03-7044	A3704402	A03-7044	A37044020L	A03-7044	A3704403	A03-7044	A3704401
Sample Date		07/23/2003		07/23/2003		07/23/2003		07/23/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	25	ND	50	ND	25	ND	25
Benzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Bromodichloromethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Bromoform	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Bromomethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
2-Butanone	UG/L	ND	25	ND	50	ND	25	ND	25
Carbon Disulfide	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Carbon Tetrachloride	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Chloromethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Chlorobenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Chloroethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Cyclohexane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Chloroform	UG/L	ND	5.0	ND	10	ND	5.0	1.2 J	5.0
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Dibromochloromethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Dichlorodifluoromethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,2-Dibromoethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,2-Dichlorobenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,3-Dichlorobenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,4-Dichlorobenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,1-Dichloroethane	UG/L	ND	5.0	ND	10	ND	5.0	1.4 J	5.0
1,2-Dichloroethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,1-Dichloroethene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
cis-1,2-Dichloroethene	UG/L	200 E	5.0	200 D	10	140	5.0	2.8 J	5.0
trans-1,2-Dichloroethene	UG/L	1.5 J	5.0	ND	10	ND	5.0	ND	5.0
1,2-Dichloropropane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
cis-1,3-Dichloropropene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
trans-1,3-Dichloropropene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Ethylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
2-Hexanone	UG/L	ND	25	ND	50	ND	25	ND	25
Isopropylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Methyl acetate	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Methylene chloride	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Methyl tert butyl ether	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
4-Methyl-2-pentanone	UG/L	ND	25	ND	50	ND	25	ND	25
Methylcyclohexane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Styrene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Tetrachloroethene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Toluene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,2,4-Trichlorobenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,1,1-Trichloroethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,1,2-Trichloroethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0

NA = Not Applicable ND = Not Detected

Client ID Job No Lab ID Sample Date		W072303 EJ-15 A03-7044 A3704402 07/23/2003		W072303 EJ-15DL A03-7044 A3704402DL 07/23/2003		W072303 EJ-18 A03-7044 A3704403 07/23/2003		W072303 EJ-19D A03-7044 A3704401 07/23/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Trichloroethene	UG/L	62	5.0	56 D	10	15	5.0	7.1	5.0
Trichlorofluoromethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Vinyl chloride	UG/L	ND	5.0	ND	10	3.7 J	5.0	ND	5.0
Total Xylenes	UG/L	ND	15	ND	30	ND	15	ND	15
n-Propylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
p-Cymene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,2,4-Trimethylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,3,5-Trimethylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
n-Butylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
sec-Butylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
IS/SURROGATE(S)									
Chlorobenzene-D5	%	89	50-200	64	50-200	90	50-200	90	50-200
1,4-Difluorobenzene	%	92	50-200	67	50-200	92	50-200	93	50-200
1,4-Dichlorobenzene-D4	%	85	50-200	59	50-200	87	50-200	86	50-200
Toluene-D8	%	96	77-122	101	77-122	94	77-122	94	77-122
p-Bromofluorobenzene	%	88	74-120	90	74-120	86	74-120	87	74-120
1,2-Dichloroethane-D4	%	100	73-136	104	73-136	100	73-136	99	73-136

NA = Not Applicable ND = Not Detected

Client ID		W072303 FB-12							
Job No	Lab ID	A03-7044	A3704406						
Sample Date		07/23/2003							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	25	NA		NA		NA	
Benzene	UG/L	ND	5.0	NA		NA		NA	
Bromodichloromethane	UG/L	1.6 J	5.0	NA		NA		NA	
Bromoform	UG/L	ND	5.0	NA		NA		NA	
Bromomethane	UG/L	ND	5.0	NA		NA		NA	
2-Butanone	UG/L	ND	25	NA		NA		NA	
Carbon Disulfide	UG/L	5.7	5.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	5.0	NA		NA		NA	
Chloromethane	UG/L	ND	5.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	5.0	NA		NA		NA	
Chloroethane	UG/L	ND	5.0	NA		NA		NA	
Cyclohexane	UG/L	ND	5.0	NA		NA		NA	
Chloroform	UG/L	2.8 J	5.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	5.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	5.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	5.0	NA		NA		NA	
2-Hexanone	UG/L	ND	25	NA		NA		NA	
Isopropylbenzene	UG/L	ND	5.0	NA		NA		NA	
Methyl acetate	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	ND	5.0	NA		NA		NA	
Methyl tert butyl ether	UG/L	ND	5.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	25	NA		NA		NA	
Methylcyclohexane	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	5.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	5.0	NA		NA		NA	
Toluene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		WD72303 FB-12							
Job No	Lab ID	A03-7044	A3704406						
Sample Date		07/23/2003							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	NA		NA		NA	
Trichloroethene	UG/L	ND	5.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	5.0	NA		NA		NA	
Total Xylenes	UG/L	ND	15	NA		NA		NA	
n-Propylbenzene	UG/L	ND	5.0	NA		NA		NA	
p-Cymene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/L	ND	5.0	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/L	ND	5.0	NA		NA		NA	
n-Butylbenzene	UG/L	ND	5.0	NA		NA		NA	
sec-Butylbenzene	UG/L	ND	5.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	62	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	65	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	57	50-200	NA		NA		NA	
Toluene-D8	%	100	77-122	NA		NA		NA	
p-Bromofluorobenzene	%	89	74-120	NA		NA		NA	
1,2-Dichloroethane-D4	%	103	73-136	NA		NA		NA	

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NA = Not Applicable ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK05		VBLK09		VBLK12			
Job No	Lab ID	A03-7044	A3704418	A03-7044	A3704420	A03-7044	A3704422		
Sample Date									
Analyte	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	25	NA	
Benzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Bromodichloromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Bromoform	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Bromomethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
2-Butanone	UG/L	ND	25	ND	25	ND	25	NA	
Carbon Disulfide	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Carbon Tetrachloride	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Chloromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Chlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Chloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Cyclohexane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Chloroform	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Dibromochloromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Dichlorodifluoromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,2-Dibromoethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,2-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,4-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,1-Dichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,2-Dichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,1-Dichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
cis-1,2-Dichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
trans-1,2-Dichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,2-Dichloropropane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
cis-1,3-Dichloropropene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
trans-1,3-Dichloropropene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Ethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
2-Hexanone	UG/L	ND	25	ND	25	ND	25	NA	
Isopropylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Methyl acetate	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Methylene chloride	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Methyl tert butyl ether	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
4-Methyl-2-pentanone	UG/L	ND	25	ND	25	ND	25	NA	
Methylcyclohexane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Styrene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Tetrachloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Toluene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,1,1-Trichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,1,2-Trichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	

NA = Not Applicable ND = Not Detected

Client ID		VBLK05		VBLK09		VBLK12			
Job No	Lab ID	A03-7044	A3704418	A03-7044	A3704420	A03-7044	A3704422		
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Trichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Trichlorofluoromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Vinyl chloride	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
Total Xylenes	UG/L	ND	15	ND	15	ND	15	NA	
n-Propylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
p-Cymene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,2,4-Trimethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
1,3,5-Trimethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
n-Butylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
sec-Butylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	92	50-200	97	50-200	94	50-200	NA	
1,4-Difluorobenzene	%	94	50-200	101	50-200	94	50-200	NA	
1,4-Dichlorobenzene-D4	%	90	50-200	85	50-200	88	50-200	NA	
Toluene-D8	%	95	77-122	99	77-122	93	77-122	NA	
p-Bromofluorobenzene	%	89	74-120	88	74-120	89	74-120	NA	
1,2-Dichloroethane-D4	%	100	73-136	100	73-136	97	73-136	NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB05		MSB09		MSB12			
Job No	Lab ID	A03-7044	A3704419	A03-7044	A3704421	A03-7044	A3704423		
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	25	280	25	250	25	NA	
Benzene	UG/L	57	5.0	53	5.0	54	5.0	NA	
Bromodichloromethane	UG/L	ND	5.0	51	5.0	53	5.0	NA	
Bromoform	UG/L	ND	5.0	47	5.0	45	5.0	NA	
Bromomethane	UG/L	ND	5.0	52	5.0	55	5.0	NA	
2-Butanone	UG/L	ND	25	290	25	280	25	NA	
Carbon Disulfide	UG/L	ND	5.0	51	5.0	49	5.0	NA	
Carbon Tetrachloride	UG/L	ND	5.0	48	5.0	53	5.0	NA	
Chloromethane	UG/L	ND	5.0	48	5.0	52	5.0	NA	
Chlorobenzene	UG/L	51	5.0	48	5.0	46	5.0	NA	
Chloroethane	UG/L	ND	5.0	51	5.0	51	5.0	NA	
Cyclohexane	UG/L	ND	5.0	52	5.0	55	5.0	NA	
Chloroform	UG/L	ND	5.0	51	5.0	54	5.0	NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	49	5.0	52	5.0	NA	
Dibromochloromethane	UG/L	ND	5.0	47	5.0	48	5.0	NA	
Dichlorodifluoromethane	UG/L	ND	5.0	46	5.0	58	5.0	NA	
1,2-Dibromoethane	UG/L	ND	5.0	48	5.0	50	5.0	NA	
1,2-Dichlorobenzene	UG/L	ND	5.0	48	5.0	48	5.0	NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	48	5.0	49	5.0	NA	
1,4-Dichlorobenzene	UG/L	ND	5.0	48	5.0	48	5.0	NA	
1,1-Dichloroethane	UG/L	ND	5.0	53	5.0	53	5.0	NA	
1,2-Dichloroethane	UG/L	ND	5.0	51	5.0	54	5.0	NA	
1,1-Dichloroethene	UG/L	56	5.0	50	5.0	51	5.0	NA	
cis-1,2-Dichloroethene	UG/L	ND	5.0	51	5.0	52	5.0	NA	
trans-1,2-Dichloroethene	UG/L	ND	5.0	50	5.0	58	5.0	NA	
1,2-Dichloropropane	UG/L	ND	5.0	54	5.0	53	5.0	NA	
cis-1,3-Dichloropropene	UG/L	ND	5.0	51	5.0	54	5.0	NA	
trans-1,3-Dichloropropene	UG/L	ND	5.0	50	5.0	50	5.0	NA	
Ethylbenzene	UG/L	ND	5.0	51	5.0	49	5.0	NA	
2-Hexanone	UG/L	ND	25	280	25	260	25	NA	
Isopropylbenzene	UG/L	ND	5.0	52	5.0	55	5.0	NA	
Methyl acetate	UG/L	ND	5.0	62	5.0	64	5.0	NA	
Methylene chloride	UG/L	ND	5.0	50	5.0	53	5.0	NA	
Methyl tert butyl ether	UG/L	ND	5.0	51	5.0	57	5.0	NA	
4-Methyl-2-pentanone	UG/L	ND	25	280	25	260	25	NA	
Methylcyclohexane	UG/L	ND	5.0	50	5.0	52	5.0	NA	
Styrene	UG/L	ND	5.0	50	5.0	49	5.0	NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	52	5.0	52	5.0	NA	
Tetrachloroethene	UG/L	ND	5.0	46	5.0	47	5.0	NA	
Toluene	UG/L	55	5.0	48	5.0	48	5.0	NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	44	5.0	48	5.0	NA	
1,1,1-Trichloroethane	UG/L	ND	5.0	48	5.0	53	5.0	NA	
1,1,2-Trichloroethane	UG/L	ND	5.0	50	5.0	48	5.0	NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB05		MSB09		MSB12			
Job No	Lab ID	A03-7044	A3704419	A03-7044	A3704421	A03-7044	A3704423		
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	48	5.0	50	5.0	NA	
Trichloroethene	UG/L	56	5.0	50	5.0	52	5.0	NA	
Trichlorofluoromethane	UG/L	ND	5.0	49	5.0	51	5.0	NA	
Vinyl chloride	UG/L	ND	5.0	53	5.0	50	5.0	NA	
Total Xylenes	UG/L	ND	15	150	15	150	15	NA	
n-Propylbenzene	UG/L	ND	5.0	53	5.0	52	5.0	NA	
p-Cymene	UG/L	ND	5.0	50	5.0	50	5.0	NA	
1,2,4-Trimethylbenzene	UG/L	ND	5.0	50	5.0	53	5.0	NA	
1,3,5-Trimethylbenzene	UG/L	ND	5.0	50	5.0	53	5.0	NA	
n-Butylbenzene	UG/L	ND	5.0	51	5.0	49	5.0	NA	
sec-Butylbenzene	UG/L	ND	5.0	51	5.0	51	5.0	NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	96	50-200	105	50-200	101	50-200	NA	
1,4-Difluorobenzene	%	100	50-200	107	50-200	98	50-200	NA	
1,4-Dichlorobenzene-D4	%	92	50-200	102	50-200	99	50-200	NA	
Toluene-D8	%	55	77-122	98	77-122	92	77-122	NA	
p-Bromofluorobenzene	%	88	74-120	91	74-120	93	74-120	NA	
1,2-Dichloroethane-D4	%	96	73-136	97	73-136	95	73-136	NA	

NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK05 MSB05
Lab Sample ID: A3704418 A3704419

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
BERG -W- METH 8260 - TCL VOLATILE ORGANI					
1,1-Dichloroethene	UG/L	55.9	50.0	112	66-142
Trichloroethene	UG/L	56.5	50.0	113	77-123
Benzene	UG/L	56.6	50.0	113	77-123
Toluene	UG/L	54.8	50.0	110	74-122
Chlorobenzene	UG/L	51.0	50.0	102	77-121

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK09 NSB09
Lab Sample ID: A3704420 A3704421

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
BERG -W- METH 8260 - ICL VOLATILE ORGANI					
1,1-Dichloroethene	UG/L	50.2	50.0	100	66-142
Trichloroethene	UG/L	49.9	50.0	100	77-123
Benzene	UG/L	53.4	50.0	107	77-123
Toluene	UG/L	48.0	50.0	96	74-122
Chlorobenzene	UG/L	47.6	50.0	95	77-121

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK12 MSB12
Lab Sample ID: A3704422 A3704423

Analyte	Units of Measure	Concentration Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
BERG -W- METH 8260 - TCL VOLATILE ORGANI					
1,1-Dichloroethene	UG/L	50.6	50.0	101	66-142
Trichloroethene	UG/L	52.3	50.0	105	77-123
Benzene	UG/L	53.7	50.0	108	77-123
Toluene	UG/L	48.1	50.0	96	74-122
Chlorobenzene	UG/L	46.1	50.0	92	77-121

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

BERG -W- METH 826D - TCL VOLATILE ORGANICS + STARS

Client Sample ID Job No & Lab Sample ID	W072203 EJ-02 A03-7044 A3704412	W072203 EJ-03 A03-7044 A3704411	W072203 EJ-04 A03-7044 A3704409	W072203 EJ-05 A03-7044 A3704413	W072203 EJ-06 A03-7044 A3704416
Sample Date	07/22/2003 14:35	07/22/2003 13:40	07/22/2003 11:30	07/22/2003 15:30	07/22/2003 19:15
Received Date	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25
Extraction Date					
Analysis Date	07/29/2003 15:57	07/29/2003 15:28	07/25/2003 16:34	07/29/2003 16:26	07/30/2003 01:27
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	2.0
Sample wt/vol	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS
% Dry					

NA = Not Applicable

BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS

Client Sample ID Job No & Lab Sample ID	W072203 EJ-07 A03-7044 A3704417	W072203 EJ-07DL A03-7044 A3704417DL	W072203 EJ-08 A03-7044 A3704407	W072203 EJ-09 A03-7044 A3704410	W072203 EJ-10 A03-7044 A3704408
Sample Date	07/22/2003 20:00	07/22/2003 20:00	07/22/2003 09:00	07/22/2003 12:30	07/22/2003 10:15
Received Date	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25
Extraction Date					
Analysis Date	07/29/2003 18:21	07/30/2003 01:57	07/25/2003 15:36	07/25/2003 17:04	07/25/2003 16:05
Extraction Ht Met?	-	-	-	-	-
Analytical Ht Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	2.0	4.0	1.0	1.0	1.0
Sample wt/vol	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS
% Dry					

30\48

NA = Not Applicable

STL Buffalo

BERG -W- METH 8260 - TCL VOLATILE ORGANICS I STARS

Client Sample ID Job No & Lab Sample ID	W072203 EJ-13 A03-7044 A3704415	W072203 EJ-14 A03-7044 A3704414	W072303 EJ-01 A03-7044 A3704404	W072303 EJ-01DL A03-7044 A3704404DL	W072303 EJ-11 A03-7044 A3704405
Sample Date	07/22/2003 18:15	07/22/2003 17:15	07/23/2003 15:50	07/23/2003 15:50	07/23/2003 16:50
Received Date	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25
Extraction Date					
Analysis Date	07/30/2003 00:58	07/29/2003 16:55	07/25/2003 14:07	07/29/2003 19:18	07/25/2003 14:37
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	20.0	20.0
Sample wt/vol	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS
% Dry					

31\48

NA = Not Applicable

BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS

Client Sample ID Job No & Lab Sample ID	W072303 EJ-11DL A03-7044 A3704405DL	W072303 EJ-15 A03-7044 A3704402	W072303 EJ-15DL A03-7044 A3704402DL	W072303 EJ-18 A03-7044 A3704403	W072303 EJ-19D A03-7044 A3704401
Sample Date	07/23/2003 16:50	07/23/2003 14:25	07/23/2003 14:25	07/23/2003 14:45	07/23/2003 09:50
Received Date	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25	07/23/2003 19:25
Extraction Date					
Analysis Date	07/29/2003 19:47	07/25/2003 13:09	07/29/2003 18:49	07/25/2003 13:38	07/25/2003 12:39
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	200.0	1.0	2.0	1.0	1.0
Sample wt/vol	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS
% Dry					

NA = Not Applicable

BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS

Client Sample ID	WO72303 FB-12				
Job No & Lab Sample ID	A03-7044 A3704406				
Sample Date	07/23/2003 17:50				
Received Date	07/23/2003 19:25				
Extraction Date					
Analysis Date	07/29/2003 20:15				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

33148

NA = Not Applicable

BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS

Client Sample ID Job No & Lab Sample ID	MSB05 A03-7044 A3704419	MSB09 A03-7044 A3704421	MSB12 A03-7044 A3704423		
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/25/2003 10:41	07/29/2003 10:42	07/29/2003 25:01		
Extraction Hf Met?	-	-	-		
Analytical Hf Met?	-	-	-		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	0.005 LITERS	0.005 LITERS	0.005 LITERS		
% Dry					

34\48

NA = Not Applicable

BERG -W- METH 826C - TCL VOLATILE ORGANICS + STARS

Client Sample ID Job No & Lab Sample ID	VBLK05 A03-7044 A3704418	VBLK09 A03-7044 A3704420	VBLK12 A03-7044 A3704422		
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/25/2003 11:10	07/29/2003 11:26	07/29/2003 22:31		
Extraction Ht Met?	-	-	-		
Analytical Ht Met?	-	-	-		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	1.0	1.0	1.0		
Sample wt/vol	0.005 LITERS	0.005 LITERS	0.005 LITERS		
% Dry					

35\48

NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL 4124 (0901)

Client: Bergmann Associates	Project Manager: Edward Jones	Date: 07/23/03	Chain of Custody Number: 112836
Address: 200 First Federal plaza 28 E. Main St	Telephone Number (Area Code)/Fax Number: (585) 232-5137 x 409	Lab Number:	Page 1 of 2
City: Rochester / State: NY / Zip Code: 14614	Site Contact: —	Lab Contact: Brian Fischer	
Project Name and Location (State): Gowanda VCA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 5596-12			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): VOCs - TCL 624	Special Instructions/ Conditions of Receipt
W072203EJ-08	07/22/03	0900		X						X			X	
W072203EJ-10	07/22/03	1015		X						X			X	
W072203EJ-04	07/22/03	1130		X						X			X	
W072203EJ-09	07/22/03	1230		X						X			X	
W072203EJ-03	07/22/03	1340		X						X			X	
W072203EJ-02	07/22/03	1435		X						X			X	
W072203EJ-05	07/22/03	1530		X						X			X	
W072203EJ-14	07/22/03	1715		X						X			X	
W072203EJ-13	07/22/03	1815		X						X			X	
W072203EJ-06	07/22/03	1915		X						X			X	
W072203EJ-07	07/22/03	2000		X						X			X	
W072303EJ-19	07/23/03	0950		X						X			X	ASP

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (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

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Edward Jones	07/23/03	1905	1. Received By: GO MO STL	07/23/03	1905
2. Relinquished By:	Date	Time	2. Received By:	Date	Time
3. Relinquished By:	Date	Time	3. Received By:	Date	Time

Comments: 2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3748

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL 4124 (0901)

Client: Bergmann Associates	Project Manager: Edward Jones	Date: 07/23/03	Chain of Custody Number: 112837
Address: 200 First Federal plaza	Telephone Number (Area Code)/Fax Number: (585) 232-5137 x409	Lab Number:	Page 2 of 2
City: Rochester / State: NY / Zip Code: 14614	Site Contact: —	Lab Contact: Brian Fischer	
Project Name and Location (State): Gowanda VCA	Carrier/Waybill Number: —		
Contract/Purchase Order/Quote No.: 5596-12			

Analysis (Attach list if more space is needed): MeCl - 7&4 8260B

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Special Instructions/ Conditions of Receipt
W072303EJ-19D	07/23/03	0950		X						X			
W072303EJ-16	07/23/03	1210		X						X			ASP
W072303EJ-17	07/23/03	1325		X						X			ASP
W072303EJ-17MS	07/23/03	1325		X						X			ASP-MS # 17
W072303EJ-17MSD	07/23/03	1325		X						X			ASP-MSD # 17
W072303EJ-15	07/23/03	1425		X						X			
W072303EJ-18	07/23/03	1445		X						X			
W072303EJ-01	07/23/03	1550		X						X			
W072303EJ-11	07/23/03	1650		X						X			
W072303EJ-12	07/23/03	1745		X						X			ASP
W072303EJ-FB12	07/23/03	1750		X						X			
T.B.	07/11/03			X						X			ASP

Possible Hazard Identification: [X] Non Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [X] 7 Days [ ] 14 Days [ ] 21 Days [X] Other STANDARD

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Edward Jones	07/23/03	1905	1. Received By: [signature]	07/23/03	1905
2. Relinquished By:	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

38148

Appendix A

AIMS DATA VALIDATION TESTS

Run Date: 07/31/2003
by: MILLERR

Validation Filter:
Job: AD3-7044
Fraction(s): MV

Out-of-Sequence Sample and Received Date/Time	No exceptions found
Out-of-Sequence S/R and Prep Date/Time	No exceptions found
Out-of-Sequence S/R and TCLP Date/time	No exceptions found
Out-of-Sequence S/R and Analysis Date/Time	No exceptions found
Out-of-Sequence Prep and TCLP Date/time	No exceptions found
Out-of-Sequence Prep and Analysis Date/Time	No exceptions found
Out-of-Sequence TCLP and Analysis Date/Time	No exceptions found
Date Entered Exceeds Current Date	No exceptions found
Missed Analysis Holding Times	No exceptions found
Missed Prep Holding Times	No exceptions found
Missed TCLP Holding Times	No exceptions found
Analysis Dates Not Entered	No exceptions found
Calculation Dates Not Set	No exceptions found
Invalid Calculation Date	No exceptions found
Sample/Tests with No Results	No exceptions found
Sample Weights and Volumes Not Entered	No exceptions found
% Dry Weights Not Entered	No exceptions found
pH Not Entered	No exceptions found
Missing TIC Results	No exceptions found
Tests Not Closed	No exceptions found
Method Blank Hits (or errors)	No exceptions found
Vol Anal Exceeds 12hrs after Method Blank Analysis	No exceptions found
Vol Anal Exceeds 24hrs after Method Blank Analysis	No exceptions found
Dilutable Sample/Test with No Dilution	No exceptions found
Sample/Test w/No Dilution and Secondary Not Set	No exceptions found

Diluted Base Sample, Missing Initial Wt /Organic	No exceptions found
Dilution missing for "E" flagged Compound /Organic	No exceptions found
TDL / Concentration with Unexpected Result Flag	No exceptions found
Unexpected Adj. Detection Limits / CRDL < IDL/MDL	No exceptions found
Adj. PDL/IDL > Requested Detection Limit("Y" flag)	No exceptions found
Missing or invalid method	No exceptions found
Sample/Tests Processed Manually	No exceptions found

Job Comments Approval : Exception list

Job	Fraction	Status	Exception (*)
AD3-7044	MV	No comments	

Total Vs. Soluble Metals	No exceptions found
Diluted Sample/Test Secondary Not Set	No exceptions found
Field Blank Hits	No exceptions found
Surrogate Results = 0	No exceptions found
Surrogates with QC Limits = 0	No exceptions found
Surrogate Results Outside of QC Limits	No exceptions found
Surrogate Results > 0 for Diluted Samples	No exceptions found
Missing Surrogate Code in Results	No exceptions found
Surrogate Limits Differing from Requested Limits	No exceptions found
Internal Standards Results = 0	No exceptions found
Internal Standards QC Limits = 0	No exceptions found
Internal Standards Results Outside of QC Limits	No exceptions found
Internal Standard Results > 0 for Dilutions	No exceptions found
Missing Internal Standards Code in Results	No exceptions found
Internal Std Limits Differing from Requested Limit	No exceptions found
Sample Spikes with No Results	No exceptions found
Spike Calculation Dates Not Set	No exceptions found
Spike Invalid Calculation Date	No exceptions found
Sample Spikes with % Recovery = 0	No exceptions found
Spike Samples with QC Limits = 0	No exceptions found
Matrix Spike Results Exceeding QC Limits	No exceptions found
Matrix Spike Duplicate Results Exceeding QC Limits	No exceptions found

Matrix Spike Duplicate RPDs Exceeding QC Limits	: No exceptions found
Spike Limits Differing from Requested Limits	: No exceptions found
Spike Results with Missing Raw Sample Results	: No exceptions found
MS Sample/Test with No Standard	: No exceptions found
MS Continuing Std with Missing or Invalid Initial	: No exceptions found
MS Standard Calibration Date/Time Not Set	: No exceptions found
MS Standard Calculation Date Not Set	: No exceptions found
MS Invalid Calculation Date	: No exceptions found
MS Anal Date/Time Exceeds 12hrs after Calibration	: No exceptions found
MS RRF out of QC Limits	: No exceptions found
MS % RSD out of QC Limits	: No exceptions found
MS % Difference out of QC Limits	: No exceptions found
MS Test Params with missing Lv3/Lv4 Std. Params	: No exceptions found
MS Standards Not Closed	: No exceptions found
MS Tune Not Linked for Standard	: No exceptions found
MS Tune Calculation Date/Time Not Set	: No exceptions found
MS Tune Not Closed	: No exceptions found
MS Tune Invalid Calculation Date	: No exceptions found
MS Tune Injection Date/Time Not Set	: No exceptions found
MS Tune Error	: No exceptions found
MS Tune Heated Purge Not Matching its Standard	: No exceptions found
MS Analysis Date/Time Exceeds 12hrs after Tune	: No exceptions found
MS Calibration exceeds 12 hrs after Tune	: No exceptions found
MS Tune/Std/Analysis Date-Time out of Sequence	: No exceptions found
Sample/Test and Method Blank Matching Prep Batch	: No exceptions found
Sample/Test and Method Blank Matching Anal Batch	: No exceptions found
QC Sample/Test with No Standard	: No exceptions found
QC Continuing Std with Missing or Invalid Initial	: No exceptions found
QC Standard Calibration Date/Time Not Set	: No exceptions found
QC Standard Calculation Date Not Set	: No exceptions found
QC Invalid Calculation Date	: No exceptions found
QC Correlation Coefficient out of QC Limits	: No exceptions found
QC % RSD out of QC Limits	: No exceptions found

QC % Difference out of QC Limits	: No exceptions found
QC missing Ref ICC point	: No exceptions found
QC Test Params with missing Lv3/Lv4 Std. Params	: No exceptions found
QC Standards Not Closed	: No exceptions found
Processing/Not Processing data from APCEE Project	: Test not run
Sample/Tests with No Sample Time	: Test not run
Sample/Tests with No Received Time	: Test not run
Sample/Tests with No Prep Time	: Test not run
Sample/Tests with No Analysis Time	: Test not run
Sample/Tests with No Analysis Batch Assigned	: Test not run
Sample/Tests Assigned Batches with Missing Master	: Test not run
Batches Not Closed	: Test not run
Sample/Tests with No Prep Batch Assigned	: Test not run
Sample/Tests with No Prep Batch Details	: Test not run
Sample/Tests with No Analysis Batch Details	: Test not run
Matrix Spike Amt Added <> MS Duplicate Amt Added	: Test not run

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Result NOT Consistent with Historical/No History : Exception List

Lab Sample	Test	Current Parameter	UM	Result	Historical Results
A3704401	CTA16660	100-41-4	UG/L	5.0U	Not Found
A3704401	CTA16660	100-42-5	UG/L	5.0U	Not Found
A3704401	CTA16660	10061-01-5	UG/L	5.0U	Not Found
A3704401	CTA16660	10061-02-6	UG/L	5.0U	Not Found
A3704401	CTA16660	103-65-1	UG/L	5.0U	Not Found
A3704401	CTA16660	104-51-8	UG/L	5.0U	Not Found
A3704401	CTA16660	106-46-7	UG/L	5.0U	Not Found
A3704401	CTA16660	106-93-4	UG/L	5.0U	Not Found
A3704401	CTA16660	107-06-2	UG/L	5.0U	Not Found
A3704401	CTA16660	108-10-1	UG/L	25U	Not Found
A3704401	CTA16660	108-67-8	UG/L	5.0U	Not Found
A3704401	CTA16660	108-87-2	UG/L	5.0U	Not Found
A3704401	CTA16660	108-88-3	UG/L	5.0U	Not Found
A3704401	CTA16660	108-90-7	UG/L	5.0U	Not Found
A3704401	CTA16660	110-82-7	UG/L	5.0U	Not Found
A3704401	CTA16660	120-82-1	UG/L	5.0U	Not Found
A3704401	CTA16660	124-48-1	UG/L	5.0U	Not Found
A3704401	CTA16660	127-18-4	UG/L	5.0U	Not Found
A3704401	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704401	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704401	CTA16660	156-59-2	UG/L	3.0J	Not Found
A3704401	CTA16660	156-60-5	UG/L	5.0U	Not Found
A3704401	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704401	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704401	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704401	CTA16660	591-78-6	UG/L	25U	Not Found
A3704401	CTA16660	67-64-1	UG/L	25U	Not Found
A3704401	CTA16660	67-66-3	UG/L	1.2J	Not Found

A3704401	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704401	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704401	CTA16660	74-83-9	UG/L	5.0U	Not Found
A3704401	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704401	CTA16660	75-00-3	UG/L	5.0U	Not Found
A3704401	CTA16660	75-01-4	UG/L	5.0U	Not Found
A3704401	CTA16660	75-09-2	UG/L	5.0U	Not Found
A3704401	CTA16660	75-15-0	UG/L	5.0U	Not Found
A3704401	CTA16660	75-25-2	UG/L	5.0U	Not Found
A3704401	CTA16660	75-27-4	UG/L	5.0U	Not Found
A3704401	CTA16660	75-34-3	UG/L	1.4J	Not Found
A3704401	CTA16660	75-35-4	UG/L	5.0U	Not Found
A3704401	CTA16660	75-69-4	UG/L	5.0U	Not Found
A3704401	CTA16660	75-71-8	UG/L	5.0U	Not Found
A3704401	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704401	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704401	CTA16660	78-93-3	UG/L	25U	Not Found
A3704401	CTA16660	79-00-5	UG/L	5.0U	Not Found
A3704401	CTA16660	79-01-6	UG/L	7.1	Not Found
A3704401	CTA16660	79-20-9	UG/L	5.0U	Not Found
A3704401	CTA16660	79-34-5	UG/L	5.0U	Not Found
A3704402	CTA16660	95-50-1	UG/L	5.0U	Not Found
A3704401	CTA16660	95-63-6	UG/L	5.0U	Not Found
A3704401	CTA16660	96-12-8	UG/L	5.0U	Not Found
A3704401	CTA16660	98-82-8	UG/L	5.0U	Not Found
A3704401	CTA16660	99-87-6	UG/L	5.0U	Not Found
A3704402	CTA16660	100-41-4	UG/L	5.0U	Not Found
A3704402	CTA16660	100-42-5	UG/L	5.0U	Not Found
A3704402	CTA16660	10061-01-5	UG/L	5.0U	Not Found
A3704402	CTA16660	10061-02-6	UG/L	5.0U	Not Found
A3704402	CTA16660	103-65-1	UG/L	5.0U	Not Found
A3704402	CTA16660	104-51-8	UG/L	5.0U	Not Found
A3704402	CTA16660	106-46-7	UG/L	5.0U	Not Found
A3704402	CTA16660	106-93-4	UG/L	5.0U	Not Found
A3704402	CTA16660	107-06-2	UG/L	5.0U	Not Found
A3704402	CTA16660	108-10-1	UG/L	25U	Not Found
A3704402	CTA16660	108-67-8	UG/L	5.0U	Not Found
A3704402	CTA16660	108-87-2	UG/L	5.0U	Not Found
A3704402	CTA16660	108-88-3	UG/L	5.0U	Not Found
A3704402	CTA16660	108-90-7	UG/L	5.0U	Not Found
A3704402	CTA16660	110-82-7	UG/L	5.0U	Not Found
A3704402	CTA16660	120-82-1	UG/L	5.0U	Not Found
A3704402	CTA16660	124-48-1	UG/L	5.0U	Not Found
A3704402	CTA16660	127-18-4	UG/L	5.0U	Not Found
A3704402	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704402	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704402	CTA16660	156-59-2	UG/L	200E	Not Found
A3704402	CTA16660	156-60-5	UG/L	1.5J	Not Found
A3704402	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704402	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704402	CTA16660	56 23 5	UG/L	5.0U	Not Found
A3704402	CTA16660	591-78-6	UG/L	25U	Not Found
A3704403	CTA16660	67-64-1	UG/L	25U	Not Found
A3704402	CTA16660	67-66 3	UG/L	5.0U	Not Found
A3704402	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704402	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704402	CTA16660	74 83 9	UG/L	5.0U	Not Found
A3704402	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704402	CTA16660	75-00-3	UG/L	5.0U	Not Found
A3704402	CTA16660	75-01-4	UG/L	5.0U	Not Found
A3704402	CTA16660	75-09-2	UG/L	5.0U	Not Found
A3704402	CTA16660	75-15-0	UG/L	5.0U	Not Found
A3704402	CTA16660	75-25-2	UG/L	5.0U	Not Found
A3704402	CTA16660	75-27-4	UG/L	5.0U	Not Found
A3704402	CTA16660	75-34-3	UG/L	5.0U	Not Found
A3704402	CTA16660	75-35-4	UG/L	5.0U	Not Found

A3704403	CTA16660	75-69-4	UG/L	5.0U	Not Found
A3704403	CTA16660	75-71-8	UG/L	5.0U	Not Found
A3704402	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704402	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704403	CTA16660	78-93-3	UG/L	35U	Not Found
A3704402	CTA16660	79-00-5	UG/L	5.0U	Not Found
A3704402	CTA16660	79-01-6	UG/L	62	Not Found
A3704402	CTA16660	79-20-9	UG/L	5.0U	Not Found
A3704402	CTA16660	79-34-5	UG/L	5.0U	Not Found
A3704402	CTA16660	95-50-1	UG/L	5.0U	Not Found
A3704402	CTA16660	95-63-6	UG/L	5.0U	Not Found
A3704402	CTA16660	96-12-8	UG/L	5.0U	Not Found
A3704402	CTA16660	98-82-8	UG/L	5.0U	Not Found
A3704402	CTA16660	99-87-6	UG/L	5.0U	Not Found
A3704403	CTA16660	100-41-4	UG/L	5.0U	Not Found
A3704403	CTA16660	100-42-5	UG/L	5.0U	Not Found
A3704403	CTA16660	10061-01-5	UG/L	5.0U	Not Found
A3704403	CTA16660	10061-02-6	UG/L	5.0U	Not Found
A3704403	CTA16660	103-65-1	UG/L	5.0U	Not Found
A3704403	CTA16660	104-51-8	UG/L	5.0U	Not Found
A3704403	CTA16660	106-46-7	UG/L	5.0U	Not Found
A3704403	CTA16660	106-93-4	UG/L	5.0U	Not Found
A3704403	CTA16660	107-06-2	UG/L	5.0U	Not Found
A3704403	CTA16660	108-10-1	UG/L	25U	Not Found
A3704403	CTA16660	108-67-8	UG/L	5.0U	Not Found
A3704403	CTA16660	108-87-2	UG/L	5.0U	Not Found
A3704403	CTA16660	108-88-3	UG/L	5.0U	Not Found
A3704403	CTA16660	108-90-7	UG/L	5.0U	Not Found
A3704403	CTA16660	110-82-7	UG/L	5.0U	Not Found
A3704403	CTA16660	120-82-1	UG/L	5.0U	Not Found
A3704403	CTA16660	124-48-1	UG/L	5.0U	Not Found
A3704403	CTA16660	127-18-4	UG/L	5.0U	Not Found
A3704403	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704403	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704403	CTA16660	156-59-2	UG/L	140	Not Found
A3704403	CTA16660	156-60-5	UG/L	5.0U	Not Found
A3704403	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704403	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704403	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704403	CTA16660	591-78-6	UG/L	25U	Not Found
A3704403	CTA16660	67-64-1	UG/L	25U	Not Found
A3704403	CTA16660	67-66-3	UG/L	5.0U	Not Found
A3704403	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704403	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704403	CTA16660	74-83-9	UG/L	5.0U	Not Found
A3704403	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704403	CTA16660	75-00-3	UG/L	5.0U	Not Found
A3704403	CTA16660	75-01-4	UG/L	3.7J	Not Found
A3704403	CTA16660	75-09-2	UG/L	5.0U	Not Found
A3704403	CTA16660	75-15-0	UG/L	5.0U	Not Found
A3704403	CTA16660	75-25-2	UG/L	5.0U	Not Found
A3704403	CTA16660	75-27-4	UG/L	5.0U	Not Found
A3704403	CTA16660	75-34-3	UG/L	5.0U	Not Found
A3704403	CTA16660	75-35-4	UG/L	5.0U	Not Found
A3704403	CTA16660	75-69-4	UG/L	5.0U	Not Found
A3704403	CTA16660	75-71-8	UG/L	5.0U	Not Found
A3704403	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704403	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704403	CTA16660	78-93-3	UG/L	25U	Not Found
A3704403	CTA16660	79-00-5	UG/L	5.0U	Not Found
A3704403	CTA16660	79-01-6	UG/L	1$	Not Found
A3704403	CTA16660	79-20-9	UG/L	5.0U	Not Found
A3704403	CTA16660	79-34-5	UG/L	5.0U	Not Found
A3704403	CTA16660	95-50-1	UG/L	5.0U	Not Found
A3704403	CTA16660	95-63-6	UG/L	5.0U	Not Found
A3704403	CTA16660	96-12-8	UG/L	5.0U	Not Found

A3704403	CTA16660	98-82-8	UG/L	5.0U	Not Found
A3704403	CTA16660	99-87-6	UG/L	5.0U	Not Found
A3704404	CTA16660	100-41-4	UG/L	5.0U	Not Found
A3704404	CTA16660	100-42-5	UG/L	5.0U	Not Found
A3704404	CTA16660	10061-01-5	UG/L	5.0U	Not Found
A3704404	CTA16660	10061-02-6	UG/L	5.0U	Not Found
A3704404	CTA16660	103-65-1	UG/L	5.0U	Not Found
A3704404	CTA16660	104-51-8	UG/L	5.0U	Not Found
A3704404	CTA16660	106-46-7	UG/L	5.0U	Not Found
A3704404	CTA16660	106-93-4	UG/L	5.0U	Not Found
A3704404	CTA16660	107-06-2	UG/L	5.0U	Not Found
A3704404	CTA16660	108-10-1	UG/L	25U	Not Found
A3704404	CTA16660	108-67-8	UG/L	5.0U	Not Found
A3704404	CTA16660	108-87-2	UG/L	5.0U	Not Found
A3704404	CTA16660	108-88-3	UG/L	5.0U	Not Found
A3704404	CTA16660	108-90-7	UG/L	5.0U	Not Found
A3704404	CTA16660	110-82-7	UG/L	5.0U	Not Found
A3704404	CTA16660	120-82-1	UG/L	5.0U	Not Found
A3704404	CTA16660	124-48-1	UG/L	5.0U	Not Found
A3704404	CTA16660	127-18-4	UG/L	5.0U	Not Found
A3704404	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704404	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704404	CTA16660	156-59-2	UG/L	1800E	Not Found
A3704404	CTA16660	156-60-5	UG/L	25	Not Found
A3704404	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704404	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704404	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704404	CTA16660	591-78-6	UG/L	25U	Not Found
A3704404	CTA16660	67-64-1	UG/L	25U	Not Found
A3704404	CTA16660	67-66-3	UG/L	5.0U	Not Found
A3704404	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704404	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704404	CTA16660	74-83-9	UG/L	5.0U	Not Found
A3704404	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704404	CTA16660	75-00-3	UG/L	5.0U	Not Found
A3704404	CTA16660	75-01-4	UG/L	54	Not Found
A3704404	CTA16660	75-09-2	UG/L	5.0U	Not Found
A3704404	CTA16660	75-15-0	UG/L	5.0U	Not Found
A3704404	CTA16660	75-25-2	UG/L	5.0U	Not Found
A3704404	CTA16660	75-27-4	UG/L	5.0U	Not Found
A3704404	CTA16660	75-34-3	UG/L	5.0U	Not Found
A3704404	CTA16660	75-35-4	UG/L	5.0U	Not Found
A3704404	CTA16660	75-69-4	UG/L	5.0U	Not Found
A3704404	CTA16660	75-71-8	UG/L	5.0U	Not Found
A3704404	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704404	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704404	CTA16660	78-93-3	UG/L	25U	Not Found
A3704404	CTA16660	79-00-5	UG/L	5.0U	Not Found
A3704404	CTA16660	79-01-6	UG/L	1500E	Not Found
A3704404	CTA16660	79-20-9	UG/L	5.0U	Not Found
A3704404	CTA16660	79-34-5	UG/L	5.0U	Not Found
A3704404	CTA16660	95-50-1	UG/L	5.0U	Not Found
A3704404	CTA16660	95-63-6	UG/L	5.0U	Not Found
A3704404	CTA16660	96-12-8	UG/L	5.0U	Not Found
A3704404	CTA16660	98-82-8	UG/L	5.0U	Not Found
A3704404	CTA16660	99-87-6	UG/L	5.0U	Not Found
A3704405	CTA16660	100-41-4	UG/L	100U	Not Found
A3704405	CTA16660	100-42-5	UG/L	100U	Not Found
A3704405	CTA16660	10061-01-5	UG/L	100U	Not Found
A3704405	CTA16660	10061-02-6	UG/L	100U	Not Found
A3704405	CTA16660	103-65-1	UG/L	100U	Not Found
A3704405	CTA16660	104-51-8	UG/L	100U	Not Found
A3704405	CTA16660	106-46-7	UG/L	100U	Not Found
A3704405	CTA16660	106-93-4	UG/L	100U	Not Found
A3704405	CTA16660	107-06-2	UG/L	100U	Not Found
A3704405	CTA16660	108-10-1	UG/L	5000U	Not Found

A3704405	CTA16660	108-67-8	UG/L	100U	Not Found
A3704405	CTA16660	108-87-2	UG/L	100U	Not Found
A3704405	CTA16660	108-88-3	UG/L	100U	Not Found
A3704405	CTA16660	108-90-7	UG/L	100U	Not Found
A3704405	CTA16660	110-82-7	UG/L	100U	Not Found
A3704405	CTA16660	120-82-1	UG/L	100U	Not Found
A3704405	CTA16660	124-48-1	UG/L	100U	Not Found
A3704405	CTA16660	127-18-4	UG/L	100U	Not Found
A3704405	CTA16660	1330-20-7	UG/L	300U	Not Found
A3704405	CTA16660	135-98-8	UG/L	100U	Not Found
A3704405	CTA16660	156-59-2	UG/L	20000E	Not Found
A3704405	CTA16660	156-60-5	UG/L	120	Not Found
A3704405	CTA16660	1634-04-4	UG/L	1000U	Not Found
A3704405	CTA16660	541-73-1	UG/L	100U	Not Found
A3704405	CTA16660	56-23-5	UG/L	100U	Not Found
A3704405	CTA16660	591-78-6	UG/L	500U	Not Found
A3704405	CTA16660	67-64-1	UG/L	5000U	Not Found
A3704405	CTA16660	67-66-3	UG/L	100U	Not Found
A3704405	CTA16660	71-43-2	UG/L	100U	Not Found
A3704405	CTA16660	71-55-6	UG/L	100U	Not Found
A3704405	CTA16660	74-83-9	UG/L	100U	Not Found
A3704405	CTA16660	74-87-3	UG/L	100U	Not Found
A3704405	CTA16660	75-00-3	UG/L	1000U	Not Found
A3704405	CTA16660	75-01-4	UG/L	490	Not Found
A3704405	CTA16660	75-09-2	UG/L	100U	Not Found
A3704405	CTA16660	75-15-0	UG/L	100U	Not Found
A3704405	CTA16660	75-25-2	UG/L	100U	Not Found
A3704405	CTA16660	75-27-4	UG/L	100U	Not Found
A3704405	CTA16660	75-34-3	UG/L	100U	Not Found
A3704405	CTA16660	75-35-4	UG/L	100U	Not Found
A3704405	CTA16660	75-69-4	UG/L	100U	Not Found
A3704405	CTA16660	75-71-8	UG/L	100U	Not Found
A3704405	CTA16660	76-13-1	UG/L	100U	Not Found
A3704405	CTA16660	78-87-5	UG/L	100U	Not Found
A3704405	CTA16660	78-93-3	UG/L	500U	Not Found
A3704405	CTA16660	79-00-5	UG/L	100U	Not Found
A3704405	CTA16660	79-01-6	UG/L	16000E	Not Found
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A3704405	CTA16660	95-63-6	UG/L	100U	Not Found
A3704405	CTA16660	96-12-8	UG/L	100U	Not Found
A3704405	CTA16660	98-82-8	UG/L	100U	Not Found
A3704405	CTA16660	99-87-6	UG/L	100U	Not Found
A3704406	CTA16660	100-41-4	UG/L	5.0U	Not Found
A3704406	CTA16660	100-42-5	UG/L	5.0U	Not Found
A3704406	CTA16660	10061-01-5	UG/L	5.0U	Not Found
A3704406	CTA16660	10061-02-6	UG/L	5.0U	Not Found
A3704406	CTA16660	103-65-1	UG/L	5.0U	Not Found
A3704406	CTA16660	104-51-8	UG/L	5.0U	Not Found
A3704406	CTA16660	106-46-7	UG/L	5.0U	Not Found
A3704406	CTA16660	106-93-4	UG/L	5.0U	Not Found
A3704406	CTA16660	107-06-2	UG/L	5.0U	Not Found
A3704406	CTA16660	108-10-1	UG/L	25U	Not Found
A3704406	CTA16660	108-67-8	UG/L	5.0U	Not Found
A3704406	CTA16660	108-87-2	UG/L	5.0U	Not Found
A3704406	CTA16660	108-88-3	UG/L	5.0U	Not Found
A3704406	CTA16660	108-90-7	UG/L	5.0U	Not Found
A3704406	CTA16660	110-82-7	UG/L	5.0U	Not Found
A3704406	CTA16660	120-82-1	UG/L	5.0U	Not Found
A3704406	CTA16660	124-48-1	UG/L	5.0U	Not Found
A3704406	CTA16660	127-18-4	UG/L	5.0U	Not Found
A3704406	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704406	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704406	CTA16660	156-59-2	UG/L	5.0U	Not Found
A3704406	CTA16660	156-60-5	UG/L	5.0U	Not Found

A3704406	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704406	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704406	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704406	CTA16660	591-78-6	UG/L	25U	Not Found
A3704406	CTA16660	67-64-1	UG/L	25U	Not Found
A3704406	CTA16660	67-66-3	UG/L	2.8J	Not Found
A3704406	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704406	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704406	CTA16660	74-83-9	UG/L	5.0U	Not Found
A3704406	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704405	CTA16660	75-00-3	UG/L	5.0U	Not Found
A3704405	CTA16660	75-01-4	UG/L	5.0U	Not Found
A3704405	CTA16660	75-09-2	UG/L	5.0U	Not Found
A3704405	CTA16660	75-15-0	UG/L	3.7	Not Found
A3704406	CTA16660	75-25-2	UG/L	5.0U	Not Found
A3704405	CTA16660	75-27-4	UG/L	1.6J	Not Found
A3704405	CTA16660	75-34-3	UG/L	5.0U	Not Found
A3704405	CTA16660	75-35-4	UG/L	5.0U	Not Found
A3704406	CTA16660	75-69-4	UG/L	5.0U	Not Found
A3704406	CTA16660	75-71-8	UG/L	5.0U	Not Found
A3704406	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704406	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704406	CTA16660	78-93-3	UG/L	25U	Not Found
A3704406	CTA16660	79-00-5	UG/L	5.0U	Not Found
A3704406	CTA16660	79-01-6	UG/L	5.0U	Not Found
A3704406	CTA16660	79-20-9	UG/L	5.0U	Not Found
A3704406	CTA16660	79-34-5	UG/L	5.0U	Not Found
A3704406	CTA16660	95-50-1	UG/L	5.0U	Not Found
A3704406	CTA16660	95-63-6	UG/L	5.0U	Not Found
A3704406	CTA16660	96-12-8	UG/L	5.0U	Not Found
A3704406	CTA16660	98-82-8	UG/L	5.0U	Not Found
A3704406	CTA16660	99-87-6	UG/L	5.0U	Not Found
A3704407	CTA16660	100-41-4	UG/L	5.0U	Not Found
A3704407	CTA16660	100-42-5	UG/L	5.0U	Not Found
A3704407	CTA16660	10061-01-5	UG/L	5.0U	Not Found
A3704407	CTA16660	10061-02-6	UG/L	5.0U	Not Found
A3704407	CTA16660	103-65-1	UG/L	5.0U	Not Found
A3704407	CTA16660	104-51-8	UG/L	5.0U	Not Found
A3704407	CTA16660	106-46-7	UG/L	5.0U	Not Found
A3704407	CTA16660	106-93-4	UG/L	5.0U	Not Found
A3704407	CTA16660	107-06-2	UG/L	5.0U	Not Found
A3704407	CTA16660	108-10-1	UG/L	25U	Not Found
A3704407	CTA16660	108-67-8	UG/L	5.0U	Not Found
A3704407	CTA16660	108-87-2	UG/L	5.0U	Not Found
A3704407	CTA16660	108-88-3	UG/L	5.0U	Not Found
A3704407	CTA16660	108-90-7	UG/L	5.0U	Not Found
A3704407	CTA16660	110-82-7	UG/L	5.0U	Not Found
A3704407	CTA16660	120-82-1	UG/L	5.0U	Not Found
A3704407	CTA16660	124-48-1	UG/L	5.0U	Not Found
A3704407	CTA16660	127-18-4	UG/L	2.0U	Not Found
A3704407	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704407	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704407	CTA16660	156-59-2	UG/L	5.0U	Not Found
A3704407	CTA16660	156-60-5	UG/L	5.0U	Not Found
A3704407	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704407	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704407	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704407	CTA16660	591-78-6	UG/L	25U	Not Found
A3704407	CTA16660	67-64-1	UG/L	25U	Not Found
A3704407	CTA16660	67-66-3	UG/L	5.0U	Not Found
A3704407	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704407	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704407	CTA16660	74-83-9	UG/L	5.0U	Not Found
A3704407	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704407	CTA16660	75-00-3	UG/L	5.0U	Not Found
A3704407	CTA16660	75-01-4	UG/L	5.0U	Not Found

A3704407	CTA16660	75-09-2	UG/L	5.0U	Not Found
A3704407	CTA16660	75-15-0	UG/L	5.0U	Not Found
A3704407	CTA16660	75-25-2	UG/L	5.0U	Not Found
A3704407	CTA16660	75-27-4	UG/L	5.0U	Not Found
A3704407	CTA16660	75-34-3	UG/L	5.0U	Not Found
A3704407	CTA16660	75-35-4	UG/L	5.0U	Not Found
A3704407	CTA16660	75-69-4	UG/L	5.0U	Not Found
A3704407	CTA16660	75-71-8	UG/L	5.0U	Not Found
A3704407	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704407	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704407	CTA16660	78-93-3	UG/L	25U	Not Found
A3704407	CTA16660	79-00-5	UG/L	5.0U	Not Found
A3704407	CTA16660	79-01-6	UG/L	5.0U	Not Found
A3704407	CTA16660	79-20-9	UG/L	5.0U	Not Found
A3704407	CTA16660	79-34-5	UG/L	5.0U	Not Found
A3704407	CTA16660	95-50-1	UG/L	5.0U	Not Found
A3704407	CTA16660	95-63-6	UG/L	5.0U	Not Found
A3704407	CTA16660	96-12-8	UG/L	5.0U	Not Found
A3704407	CTA16660	98-82-8	UG/L	5.0U	Not Found
A3704407	CTA16660	99-87-6	UG/L	5.0U	Not Found
A3704408	CTA16660	100-41-4	UG/L	5.0U	Not Found
A3704408	CTA16660	100-42-5	UG/L	5.0U	Not Found
A3704408	CTA16660	10061-01-5	UG/L	5.0U	Not Found
A3704408	CTA16660	10061-02-6	UG/L	5.0U	Not Found
A3704408	CTA16660	103-65-1	UG/L	5.0U	Not Found
A3704408	CTA16660	104-51-8	UG/L	5.0U	Not Found
A3704408	CTA16660	106-46-7	UG/L	5.0U	Not Found
A3704408	CTA16660	106-93-4	UG/L	5.0U	Not Found
A3704408	CTA16660	107-06-2	UG/L	5.0U	Not Found
A3704408	CTA16660	108-10-1	UG/L	25U	Not Found
A3704408	CTA16660	108-67-8	UG/L	5.0U	Not Found
A3704408	CTA16660	108-87-2	UG/L	5.0U	Not Found
A3704408	CTA16660	108-88-3	UG/L	5.0U	Not Found
A3704408	CTA16660	108-90-7	UG/L	5.0U	Not Found
A3704408	CTA16660	110-82-7	UG/L	5.0U	Not Found
A3704408	CTA16660	120-82-1	UG/L	5.0U	Not Found
A3704408	CTA16660	124-48-1	UG/L	5.0U	Not Found
A3704408	CTA16660	127-18-4	UG/L	5.0U	Not Found
A3704408	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704408	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704408	CTA16660	156-59-2	UG/L	5.0U	Not Found
A3704408	CTA16660	156-60-5	UG/L	5.0U	Not Found
A3704408	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704408	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704408	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704408	CTA16660	591-78-6	UG/L	25U	Not Found
A3704408	CTA16660	67-64-1	UG/L	25U	Not Found
A3704408	CTA16660	67-66-3	UG/L	5.0U	Not Found
A3704408	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704408	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704408	CTA16660	74-83-9	UG/L	5.0U	Not Found
A3704408	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704408	CTA16660	75-00-3	UG/L	5.0U	Not Found
A3704408	CTA16660	75-01-4	UG/L	5.0U	Not Found
A3704408	CTA16660	75-09-2	UG/L	5.0U	Not Found
A3704408	CTA16660	75-15-0	UG/L	5.0U	Not Found
A3704408	CTA16660	75-25-2	UG/L	5.0U	Not Found
A3704408	CTA16660	75-27-4	UG/L	5.0U	Not Found
A3704408	CTA16660	75-34-3	UG/L	5.0U	Not Found
A3704408	CTA16660	75-35-4	UG/L	5.0U	Not Found
A3704408	CTA16660	75-69-4	UG/L	5.0U	Not Found
A3704408	CTA16660	75-71-8	UG/L	5.0U	Not Found
A3704408	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704408	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704408	CTA16660	78-93-3	UG/L	25U	Not Found
A3704408	CTA16660	79-00-5	UG/L	5.0U	Not Found

A3704408	CTA16660	79-01-6	UG/L	5.0U	Not Found
A3704408	CTA16660	79-20-9	UG/L	5.0U	Not Found
A3704408	CTA16660	79-34-5	UG/L	5.0U	Not Found
A3704408	CTA16660	95-50-1	UG/L	5.0U	Not Found
A3704408	CTA16660	95-63-6	UG/L	5.0U	Not Found
A3704408	CTA16660	96-12-8	UG/L	5.0U	Not Found
A3704409	CTA16660	98-82-8	UG/L	5.0U	Not Found
A3704408	CTA16660	99-87-6	UG/L	5.0U	Not Found
A3704409	CTA16660	100-41-4	UG/L	5.0U	Not Found
A3704409	CTA16660	100-42-5	UG/L	5.0U	Not Found
A3704409	CTA16660	10061-01-5	UG/L	5.0U	Not Found
A3704409	CTA16660	10061-02-6	UG/L	5.0U	Not Found
A3704409	CTA16660	103-65-1	UG/L	5.0U	Not Found
A3704409	CTA16660	104-51-8	UG/L	5.0U	Not Found
A3704409	CTA16660	106-46-7	UG/L	5.0U	Not Found
A3704409	CTA16660	106-93-4	UG/L	5.0U	Not Found
A3704409	CTA16660	107-06-2	UG/L	5.0U	Not Found
A3704409	CTA16660	108-10-1	UG/L	25U	Not Found
A3704408	CTA16660	108-67-8	UG/L	5.0U	Not Found
A3704409	CTA16660	108-87-2	UG/L	5.0U	Not Found
A3704409	CTA16660	108-88-3	UG/L	5.0U	Not Found
A3704409	CTA16660	108-90-7	UG/L	5.0U	Not Found
A3704409	CTA16660	110-82-7	UG/L	5.0U	Not Found
A3704409	CTA16660	120-82-1	UG/L	5.0U	Not Found
A3704409	CTA16660	124-48-1	UG/L	5.0U	Not Found
A3704409	CTA16660	127-18-4	UG/L	5.0U	Not Found
A3704409	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704409	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704409	CTA16660	156-59-2	UG/L	1.8J	Not Found
A3704409	CTA16660	156-60-5	UG/L	5.0U	Not Found
A3704409	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704409	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704409	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704409	CTA16660	591-78-6	UG/L	25U	Not Found
A3704409	CTA16660	67-64-1	UG/L	25U	Not Found
A3704409	CTA16660	67-66-3	UG/L	5.0U	Not Found
A3704409	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704409	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704409	CTA16660	74-83-9	UG/L	5.0U	Not Found
A3704409	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704409	CTA16660	75-00-3	UG/L	5.0U	Not Found
A3704409	CTA16660	75-01-4	UG/L	5.0U	Not Found
A3704409	CTA16660	75-09-2	UG/L	5.0U	Not Found
A3704409	CTA16660	75-15-0	UG/L	5.0U	Not Found
A3704409	CTA16660	75-25-2	UG/L	5.0U	Not Found
A3704409	CTA16660	75-27-4	UG/L	5.0U	Not Found
A3704409	CTA16660	75-34-3	UG/L	5.0U	Not Found
A3704409	CTA16660	75-35-4	UG/L	5.0U	Not Found
A3704409	CTA16660	75-69-4	UG/L	5.0U	Not Found
A3704409	CTA16660	75-71-8	UG/L	5.0U	Not Found
A3704409	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704409	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704409	CTA16660	78-93-3	UG/L	25U	Not Found
A3704409	CTA16660	79-00-5	UG/L	5.0U	Not Found
A3704409	CTA16660	79-01-6	UG/L	5.0U	Not Found
A3704409	CTA16660	79-20-9	UG/L	5.0U	Not Found
A3704409	CTA16660	79-34-5	UG/L	5.0U	Not Found
A3704409	CTA16660	95-50-1	UG/L	5.0U	Not Found
A3704409	CTA16660	95-63-6	UG/L	5.0U	Not Found
A3704409	CTA16660	96-12-8	UG/L	5.0U	Not Found
A3704409	CTA16660	98-82-8	UG/L	5.0U	Not Found
A3704409	CTA16660	99-87-6	UG/L	5.0U	Not Found
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A3704410	CTA16660	100-42-5	UG/L	5.0U	Not Found
A3704410	CTA16660	10061-01-5	UG/L	5.0U	Not Found
A3704410	CTA16660	10061-02-6	UG/L	5.0U	Not Found

A3704410	CTA16660	103-65-1	UG/L	5.0U	Not Found
A3704410	CTA16660	104-51-8	UG/L	5.0U	Not Found
A3704410	CTA16660	106-46-7	UG/L	5.0U	Not Found
A3704410	CTA16660	106-93-4	UG/L	5.0U	Not Found
A3704410	CTA16660	107-06-2	UG/L	5.0U	Not Found
A3704410	CTA16660	108-10-1	UG/L	25U	Not Found
A3704410	CTA16660	108-67-8	UG/L	5.0U	Not Found
A3704410	CTA16660	108-87-2	UG/L	5.0U	Not Found
A3704410	CTA16660	108-88-3	UG/L	5.0U	Not Found
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A3704410	CTA16660	124-48-1	UG/L	5.0U	Not Found
A3704410	CTA16660	127-18-4	UG/L	5.0U	Not Found
A3704410	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704410	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704410	CTA16660	156-59-2	UG/L	5.0U	Not Found
A3704410	CTA16660	156-60-5	UG/L	5.0U	Not Found
A3704410	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704410	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704410	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704410	CTA16660	591-78-6	UG/L	25U	Not Found
A3704410	CTA16660	67-64-1	UG/L	25U	Not Found
A3704410	CTA16660	67-66-3	UG/L	5.0U	Not Found
A3704410	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704410	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704410	CTA16660	74-83-9	UG/L	5.0U	Not Found
A3704410	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704410	CTA16660	75-00-3	UG/L	5.0U	Not Found
A3704410	CTA16660	75-01-4	UG/L	5.0U	Not Found
A3704410	CTA16660	75-09-2	UG/L	5.0U	Not Found
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A3704410	CTA16660	75-27-4	UG/L	5.0U	Not Found
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A3704410	CTA16660	75-69-4	UG/L	5.0U	Not Found
A3704410	CTA16660	75-71-8	UG/L	5.0U	Not Found
A3704410	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704410	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704410	CTA16660	78-93-3	UG/L	25U	Not Found
A3704410	CTA16660	79-00-5	UG/L	5.0U	Not Found
A3704410	CTA16660	79-01-6	UG/L	5.0U	Not Found
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A3704410	CTA16660	79-34-5	UG/L	5.0U	Not Found
A3704410	CTA16660	95-50-1	UG/L	5.0U	Not Found
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A3704411	CTA16660	108-67-8	UG/L	5.0U	Not Found
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A3704411	CTA16660	108-90-7	UG/L	5.0U	Not Found
A3704411	CTA16660	110-82-7	UG/L	5.0U	Not Found
A3704411	CTA16660	120-82-1	UG/L	5.0U	Not Found

A3704411	CTA16660	124-48-1	UG/L	5.0U	Not Found
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A3704411	CTA16660	1330-20-7	UG/L	15U	Not Found
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A3704411	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704411	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704411	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704411	CTA16660	591-78-6	UG/L	25U	Not Found
A3704411	CTA16660	67-64-1	UG/L	25U	Not Found
A3704411	CTA16660	67-66-3	UG/L	5.0U	Not Found
A3704411	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704411	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704411	CTA16660	74-83-9	UG/L	5.0U	Not Found
A3704411	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704411	CTA16660	75-00-3	UG/L	5.0U	Not Found
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A3704411	CTA16660	75-09-2	UG/L	5.0U	Not Found
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A3704411	CTA16660	76-13-1	UG/L	5.0U	Not Found
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A3704412	CTA16660	120-82-1	UG/L	5.0U	Not Found
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A3704412	CTA16660	67-64-1	UG/L	25U	Not Found
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A3704413	CTA16660	71-55-6	UG/L	5.0U	Not Found
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A3704413	CTA16660	75-71-8	UG/L	5.0U	Not Found
A3704413	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704413	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704413	CTA16660	78-93-3	UG/L	25U	Not Found
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A3704413	CTA16660	104-51-8	UG/L	5.0U	Not Found
A3704413	CTA16660	106-46-7	UG/L	5.0U	Not Found
A3704413	CTA16660	106-93-4	UG/L	5.0U	Not Found
A3704413	CTA16660	107-06-2	UG/L	5.0U	Not Found
A3704413	CTA16660	108-10-1	UG/L	25U	Not Found
A3704413	CTA16660	108-67-8	UG/L	5.0U	Not Found
A3704413	CTA16660	108-87-2	UG/L	5.0U	Not Found
A3704413	CTA16660	108-88-3	UG/L	5.0U	Not Found
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A3704413	CTA16660	127-18-4	UG/L	5.0U	Not Found
A3704413	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704413	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704413	CTA16660	156-59-2	UG/L	5.0U	Not Found
A3704413	CTA16660	156-60-5	UG/L	5.0U	Not Found
A3704413	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704413	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704413	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704413	CTA16660	591-78-6	UG/L	25U	Not Found
A3704413	CTA16660	67-64-1	UG/L	25U	Not Found
A3704413	CTA16660	67-66-3	UG/L	5.0U	Not Found
A3704413	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704413	CTA16660	71-55-6	UG/L	5.0U	Not Found
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A3704413	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704413	CTA16660	75-00-3	UG/L	5.0U	Not Found
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A3704413	CTA16660	76-13-1	UG/L	5.0U	Not Found
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A3704413	CTA16660	78-93-3	UG/L	25U	Not Found
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A3704413	CTA16660	79-20-9	UG/L	5.0U	Not Found
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A3704413	CTA16660	98-82-8	UG/L	5.0U	Not Found
A3704413	CTA16660	99-87-6	UG/L	5.0U	Not Found
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A3704414	CTA16660	104-51-8	UG/L	5.0U	Not Found
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A3704414	CTA16660	107-06-2	UG/L	5.0U	Not Found
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A3704414	CTA16660	108-88-3	UG/L	5.0U	Not Found
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A3704414	CTA16660	127-18-4	UG/L	5.0U	Not Found
A3704414	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704414	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704414	CTA16660	156-59-2	UG/L	66	Not Found
A3704414	CTA16660	156-60-5	UG/L	5.0U	Not Found
A3704414	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704414	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704414	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704414	CTA16660	591-78-6	UG/L	25U	Not Found
A3704414	CTA16660	67-64-1	UG/L	25U	Not Found
A3704414	CTA16660	67-66-3	UG/L	5.0U	Not Found
A3704414	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704414	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704414	CTA16660	74-83-9	UG/L	5.0U	Not Found
A3704414	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704414	CTA16660	75-00-3	UG/L	5.0U	Not Found
A3704414	CTA16660	75-01-4	UG/L	5.0U	Not Found
A3704414	CTA16660	75-09-2	UG/L	5.0U	Not Found
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A3704414	CTA16660	75-34-3	UG/L	5.0U	Not Found
A3704414	CTA16660	75-35-4	UG/L	5.0U	Not Found
A3704414	CTA16660	75-69-4	UG/L	5.0U	Not Found
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A3704414	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704414	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704414	CTA16660	78-93-3	UG/L	25U	Not Found
A3704414	CTA16660	79-00-5	UG/L	5.0U	Not Found
A3704414	CTA16660	79-01-6	UG/L	74	Not Found
A3704414	CTA16660	79-20-9	UG/L	5.0U	Not Found
A3704414	CTA16660	79-34-5	UG/L	5.0U	Not Found
A3704414	CTA16660	95-50-1	UG/L	5.0U	Not Found
A3704414	CTA16660	95-63-6	UG/L	5.0U	Not Found
A3704414	CTA16660	96-12-8	UG/L	5.0U	Not Found

A3704414	CTA16660	98-82-8	UG/L	5.0U	Not Found
A3704414	CTA16660	99-87-6	UG/L	5.0U	Not Found
A3704415	CTA16660	100-41-4	UG/L	5.0U	Not Found
A3704415	CTA16660	100-42-5	UG/L	5.0U	Not Found
A3704415	CTA16660	10061-01-5	UG/L	5.0U	Not Found
A3704415	CTA16660	10061-02-6	UG/L	5.0U	Not Found
A3704415	CTA16660	103-65-1	UG/L	5.0U	Not Found
A3704415	CTA16660	104-51-8	UG/L	5.0U	Not Found
A3704415	CTA16660	106-46-7	UG/L	5.0U	Not Found
A3704415	CTA16660	106-93-4	UG/L	5.0U	Not Found
A3704415	CTA16660	107-06-2	UG/L	5.0U	Not Found
A3704415	CTA16660	108-10-1	UG/L	25U	Not Found
A3704415	CTA16660	108-67-8	UG/L	5.0U	Not Found
A3704415	CTA16660	108-87-2	UG/L	5.0U	Not Found
A3704415	CTA16660	108-88-3	UG/L	5.0U	Not Found
A3704415	CTA16660	108-90-7	UG/L	5.0U	Not Found
A3704415	CTA16660	110-82-7	UG/L	5.0U	Not Found
A3704415	CTA16660	120-82-1	UG/L	5.0U	Not Found
A3704415	CTA16660	124-48-1	UG/L	5.0U	Not Found
A3704415	CTA16660	127-18-4	UG/L	5.0U	Not Found
A3704415	CTA16660	1330-20-7	UG/L	15U	Not Found
A3704415	CTA16660	135-98-8	UG/L	5.0U	Not Found
A3704415	CTA16660	156-59-2	UG/L	15	Not Found
A3704415	CTA16660	156-60-5	UG/L	5.0U	Not Found
A3704415	CTA16660	1634-04-4	UG/L	5.0U	Not Found
A3704415	CTA16660	541-73-1	UG/L	5.0U	Not Found
A3704415	CTA16660	56-23-5	UG/L	5.0U	Not Found
A3704415	CTA16660	591-78-6	UG/L	25U	Not Found
A3704415	CTA16660	67-64-1	UG/L	25U	Not Found
A3704415	CTA16660	67-66-3	UG/L	5.0U	Not Found
A3704415	CTA16660	71-43-2	UG/L	5.0U	Not Found
A3704415	CTA16660	71-55-6	UG/L	5.0U	Not Found
A3704415	CTA16660	74-83-9	UG/L	5.0U	Not Found
A3704415	CTA16660	74-87-3	UG/L	5.0U	Not Found
A3704415	CTA16660	75-00-3	UG/L	5.0U	Not Found
A3704415	CTA16660	75-01-4	UG/L	5.0U	Not Found
A3704415	CTA16660	75-09-2	UG/L	5.0U	Not Found
A3704415	CTA16660	75-15-0	UG/L	5.0U	Not Found
A3704415	CTA16660	75-25-2	UG/L	5.0U	Not Found
A3704415	CTA16660	75-27-4	UG/L	5.0U	Not Found
A3704415	CTA16660	75-34-3	UG/L	5.0U	Not Found
A3704415	CTA16660	75-35-4	UG/L	5.0U	Not Found
A3704415	CTA16660	75-69-4	UG/L	5.0U	Not Found
A3704415	CTA16660	75-71-8	UG/L	5.0U	Not Found
A3704415	CTA16660	76-13-1	UG/L	5.0U	Not Found
A3704415	CTA16660	78-87-5	UG/L	5.0U	Not Found
A3704415	CTA16660	78-93-3	UG/L	25U	Not Found
A3704415	CTA16660	79-00-5	UG/L	5.0U	Not Found
A3704415	CTA16660	79-01-6	UG/L	16	Not Found
A3704415	CTA16660	79-20-9	UG/L	5.0U	Not Found
A3704415	CTA16660	79-34-5	UG/L	5.0U	Not Found
A3704415	CTA16660	95-50-1	UG/L	5.0U	Not Found
A3704415	CTA16660	95-63-6	UG/L	5.0U	Not Found
A3704415	CTA16660	96-12-8	UG/L	5.0U	Not Found
A3704415	CTA16660	98-82-8	UG/L	5.0U	Not Found
A3704415	CTA16660	99-87-6	UG/L	5.0U	Not Found
A3704416	CTA16660	100-41-4	UG/L	10U	Not Found
A3704416	CTA16660	100-42-5	UG/L	10U	Not Found
A3704416	CTA16660	10061-01-5	UG/L	10U	Not Found
A3704416	CTA16660	10061-02-6	UG/L	10U	Not Found
A3704416	CTA16660	103-65-1	UG/L	10U	Not Found
A3704416	CTA16660	104-51-8	UG/L	10U	Not Found
A3704416	CTA16660	106-46-7	UG/L	10U	Not Found
A3704416	CTA16660	106-93-4	UG/L	10U	Not Found
A3704416	CTA16660	107-06-2	UG/L	10U	Not Found
A3704416	CTA16660	108-10-1	UG/L	50U	Not Found

A3704416	CTA16660	108-67-8	UG/L	10U	Not Found
A3704416	CTA16660	108-87-2	UG/L	10U	Not Found
A3704416	CTA16660	108-88-3	UG/L	10U	Not Found
A3704416	CTA16660	108-90-7	UG/L	10U	Not Found
A3704416	CTA16660	110-82-7	UG/L	10U	Not Found
A3704416	CTA16660	120-82-1	UG/L	10U	Not Found
A3704416	CTA16660	124-48-1	UG/L	10U	Not Found
A3704416	CTA16660	127-18-4	UG/L	10U	Not Found
A3704416	CTA16660	1330-20-7	UG/L	30U	Not Found
A3704416	CTA16660	135-98-8	UG/L	10U	Not Found
A3704416	CTA16660	156-59-2	UG/L	33U	Not Found
A3704416	CTA16660	156-60-5	UG/L	3.4J	Not Found
A3704416	CTA16660	1634-04-4	UG/L	10U	Not Found
A3704416	CTA16660	541-73-1	UG/L	10U	Not Found
A3704416	CTA16660	56-23-5	UG/L	10U	Not Found
A3704416	CTA16660	591-78-6	UG/L	50U	Not Found
A3704416	CTA16660	67-64-1	UG/L	50U	Not Found
A3704416	CTA16660	67-66-3	UG/L	10U	Not Found
A3704416	CTA16660	71-43-2	UG/L	10U	Not Found
A3704416	CTA16660	71-55-6	UG/L	10U	Not Found
A3704416	CTA16660	74-83-9	UG/L	10U	Not Found
A3704416	CTA16660	74-87-3	UG/L	10U	Not Found
A3704416	CTA16660	75-00-3	UG/L	10U	Not Found
A3704416	CTA16660	75-01-4	UG/L	10U	Not Found
A3704416	CTA16660	75-09-2	UG/L	10U	Not Found
A3704416	CTA16660	75-15-0	UG/L	10U	Not Found
A3704416	CTA16660	75-25-2	UG/L	10U	Not Found
A3704416	CTA16660	75-27-4	UG/L	10U	Not Found
A3704416	CTA16660	75-34-3	UG/L	10U	Not Found
A3704416	CTA16660	75-35-4	UG/L	10U	Not Found
A3704416	CTA16660	75-69-4	UG/L	10U	Not Found
A3704416	CTA16660	75-71-8	UG/L	10U	Not Found
A3704416	CTA16660	76-13-1	UG/L	10U	Not Found
A3704416	CTA16660	78-87-5	UG/L	10U	Not Found
A3704416	CTA16660	78-93-3	UG/L	50U	Not Found
A3704416	CTA16660	79-00-5	UG/L	10U	Not Found
A3704416	CTA16660	79-01-6	UG/L	10U	Not Found
A3704416	CTA16660	79-20-9	UG/L	10U	Not Found
A3704416	CTA16660	79-34-5	UG/L	10U	Not Found
A3704416	CTA16660	95-50-1	UG/L	10U	Not Found
A3704416	CTA16660	95-63-6	UG/L	10U	Not Found
A3704416	CTA16660	96-12-8	UG/L	10U	Not Found
A3704416	CTA16660	98-82-8	UG/L	10U	Not Found
A3704416	CTA16660	99-87-6	UG/L	10U	Not Found
A3704417	CTA16660	100-41-4	UG/L	10U	Not Found
A3704417	CTA16660	100-42-5	UG/L	10U	Not Found
A3704417	CTA16660	10061-01-5	UG/L	10U	Not Found
A3704417	CTA16660	10061-02-6	UG/L	10U	Not Found
A3704417	CTA16660	103-65-1	UG/L	10U	Not Found
A3704417	CTA16660	104-51-8	UG/L	10U	Not Found
A3704417	CTA16660	106-46-7	UG/L	10U	Not Found
A3704417	CTA16660	106-93-4	UG/L	10U	Not Found
A3704417	CTA16660	107-06-2	UG/L	10U	Not Found
A3704417	CTA16660	108-10-1	UG/L	50U	Not Found
A3704417	CTA16660	108-67-8	UG/L	10U	Not Found
A3704417	CTA16660	108-87-2	UG/L	10U	Not Found
A3704417	CTA16660	108-88-3	UG/L	10U	Not Found
A3704417	CTA16660	108-90-7	UG/L	10U	Not Found
A3704417	CTA16660	110-82-7	UG/L	10U	Not Found
A3704417	CTA16660	120-82-1	UG/L	10U	Not Found
A3704417	CTA16660	124-48-1	UG/L	10U	Not Found
A3704417	CTA16660	127-18-4	UG/L	10U	Not Found
A3704417	CTA16660	1330-20-7	UG/L	30U	Not Found
A3704417	CTA16660	135-98-8	UG/L	10U	Not Found
A3704417	CTA16660	156-59-2	UG/L	470E	Not Found
A3704417	CTA16660	156-60-5	UG/L	3.2J	Not Found

A3704417	CTA16660	1634-04-4	UG/L	10U	Not Found
A3704417	CTA16660	541-73-1	UG/L	10U	Not Found
A3704417	CTA16660	56-23-5	UG/L	10U	Not Found
A3704417	CTA16660	591-78-6	UG/L	50U	Not Found
A3704417	CTA16660	67-64-1	UG/L	50U	Not Found
A3704417	CTA16660	67-66-3	UG/L	10U	Not Found
A3704417	CTA16660	71-43-2	UG/L	10U	Not Found
A3704417	CTA16660	71-55-6	UG/L	10U	Not Found
A3704417	CTA16660	74-83-9	UG/L	10U	Not Found
A3704417	CTA16660	74-87-3	UG/L	10U	Not Found
A3704417	CTA16660	75-00-3	UG/L	10U	Not Found
A3704417	CTA16660	75-01-4	UG/L	10U	Not Found
A3704417	CTA16660	75-09-2	UG/L	20U	Not Found
A3704417	CTA16660	75-15-0	UG/L	10U	Not Found
A3704417	CTA16660	75-25-2	UG/L	10U	Not Found
A3704417	CTA16660	75-27-4	UG/L	10U	Not Found
A3704417	CTA16660	75-34-3	UG/L	10U	Not Found
A3704417	CTA16660	75-35-4	UG/L	10U	Not Found
A3704417	CTA16660	75-69-4	UG/L	10U	Not Found
A3704417	CTA16660	75-71-8	UG/L	10U	Not Found
A3704417	CTA16660	76-13-1	UG/L	10U	Not Found
A3704417	CTA16660	78-87-5	UG/L	10U	Not Found
A3704417	CTA16660	78-93-3	UG/L	50U	Not Found
A3704417	CTA16660	79-00-5	UG/L	10U	Not Found
A3704417	CTA16660	79-01-6	UG/L	18	Not Found
A3704417	CTA16660	79-20-9	UG/L	10U	Not Found
A3704417	CTA16660	79-34-5	UG/L	10U	Not Found
A3704417	CTA16660	95-50-1	UG/L	10U	Not Found
A3704417	CTA16660	95-63-6	UG/L	10U	Not Found
A3704417	CTA16660	96-12-8	UG/L	10U	Not Found
A3704417	CTA16660	98-82-8	UG/L	10U	Not Found
A3704417	CTA16660	99-87-6	UG/L	10U	Not Found

SEVERN TRENT STL

ANALYTICAL REPORT

Job#: A03-7045

STL Project#: NY2A8896
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center
Task: ASP00 LEVEL IV DELIVERABLES

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

STL Buffalo

Brian J. Fischer
Project Manager

07/31/2003

Severn Trent Laboratories, Inc.
STL Buffalo • 10 Hazelwood Drive, Suite 106, Amherst, NY 14228
Tel 716 691 2600 Fax 716 691 7991 • www.stlinc.com

SEVERN TRENT STL

August 8, 2003

Mr. Edward Jones
Bergmann Associates
28 East Main St.
Rochester, NY 14614

RE: Revised Analytical Report

Dear Mr. Jones:

Please find enclosed revised analytical results concerning the samples submitted by your firm. Specifically, the undiluted data for samples W072303 EJ-17 and W072303 EJ-12 have been numbered for replacement and/or insertion into the original report. The pertinent information regarding these analyses is listed below:

Site Name: Gowanda Day Habilitation Center
STL Project#: NY2A8896

If you have any questions concerning these data, please contact me 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 Manag

REVISED
ASP 2 Ground water Samples

Gowanda VCA

BJF/rtv

X6

SAMPLE DATA SUMMARY PACKAGE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A3704505	TRIP BLANK	07/23/2003		07/23/2003	19:25
A3704504	W072303 EJ-12	07/23/2003	17:45	07/23/2003	19:25
A3704502	W072303 EJ-16	07/23/2003	12:10	07/23/2003	19:25
A3704503	W072303 EJ-17	07/23/2003	13:25	07/23/2003	19:25
A3704503MS	W072303 EJ-17 MS	07/23/2003	13:25	07/23/2003	19:25
A3704503SD	W072303 EJ-17 SD	07/23/2003	13:25	07/23/2003	19:25
A3704501	W072303 EJ-19	07/23/2003	09:50	07/23/2003	19:25

METHODS SUMMARY

Job#: A03-7045

STL Project#: NY2A8896
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

PARAMETER	ANALYTICAL METHOD	
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS	ASP00	8260/5ML

References:

ASP00 "Analytical Services Protocol", New York State Department of Conservation, June 2000.

NON-CONFORMANCE SUMMARY

Job#: A03-7045

STL Project#: NY2A8896
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

A03-7045
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The ASP Volatile procedure has been modified in order to accomodate the need to quantitate additional analytes not analyzed by method ASP00. Specifically the internal standard 1,4-Dichlorobenzene-D4, has been used instead of the ASP required internal standard Bromochloromethane.

All samples were preserved to a PH less than 2.

STL Buffalo internal validation report is included in this report as Appendix A.

****

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 data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Brian J. Fischer
Project Manager

7-31-03
Date

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
W072303 EJ-17	A3704503	8260/5ML	4.00	008
W072303 EJ-17 MS	A3704503MS	8260/5ML	4.00	008
W072303 EJ-17 SD	A3704503SD	8260/5ML	4.00	008
W072303 EJ-12	A3704504	8260/5ML	50.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
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

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE 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	TCLP HERB	WATER QUALITY
W072303 EJ-12	A3704504	ASP00	-	-	-	-	-	-
W072303 EJ-16	A3704502	ASP00	-	-	-	-	-	-
W072303 EJ-17	A3704503	ASP00	-	-	-	-	-	-
W072303 EJ-19	A3704501	ASP00	-	-	-	-	-	-

NYSDEC-1

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE 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
W072303 EJ-12	WATER	07/23/2003	07/23/2003	-	07/30/2003
W072303 EJ-16	WATER	07/23/2003	07/23/2003	-	07/29/2003
W072303 EJ-17	WATER	07/23/2003	07/23/2003	-	07/30/2003
W072303 EJ-19	WATER	07/23/2003	07/23/2003	-	07/29/2003

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE 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
W072303 EJ-12	WATER	ASP00	-	AS REQUIRED	AS REQUIRED
W072303 EJ-16	WATER	ASP00	-	AS REQUIRED	AS REQUIRED
W072303 EJ-17	WATER	ASP00	-	AS REQUIRED	AS REQUIRED
W072303 EJ-19	WATER	ASP00	-	AS REQUIRED	AS REQUIRED

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
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.
1	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 at or above the reporting limit.
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
*	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

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704505

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1784.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704505

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1784.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	15	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

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

TRIP BLANK

ab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

atrix: (soil/water) WATER Lab Sample ID: A3704505

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1784.RR

evel: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

umber TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

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Client No.

W072303 EJ-12

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1802.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/30/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	1200	U
71-43-2	Benzene	250	U
75-27-4	Bromodichloromethane	250	U
75-25-2	Bromoform	250	U
74-83-9	Bromomethane	250	U
78-93-3	2-Butanone	1200	U
75-15-0	Carbon Disulfide	250	U
56-23-5	Carbon Tetrachloride	250	U
74-87-3	Chloromethane	250	U
108-90-7	Chlorobenzene	250	U
75-00-3	Chloroethane	250	U
110-82-7	Cyclohexane	500	U
67-66-3	Chloroform	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
124-48-1	Dibromochloromethane	250	U
75-71-8	Dichlorodifluoromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
95-50-1	1,2-Dichlorobenzene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
75-34-3	1,1-Dichloroethane	250	U
107-06-2	1,2-Dichloroethane	250	U
75-35-4	1,1-Dichloroethene	250	U
156-59-2	cis-1,2-Dichloroethene	3000	
156-60-5	trans-1,2-Dichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
100-41-4	Ethylbenzene	250	U
591-78-6	2-Hexanone	1200	U
98-82-8	Isopropylbenzene	250	U
79-20-9	Methyl acetate	500	U
75-09-2	Methylene chloride	500	U
1634-04-4	Methyl tert butyl ether	500	U

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.

W072303 EJ-12

ab Name: STL Buffalo Contract: _____

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

atrix: (soil/water) WATER Lab Sample ID: A3704504

ample wt/vol: 5.00 (g/mL) ML Lab File ID: F1802.RR

evel: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/30/2003

C Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-10-1	4-Methyl-2-pentanone	1200	U
108-87-2	Methylcyclohexane	500	U
100-42-5	Styrene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
127-18-4	Tetrachloroethene	250	U
108-88-3	Toluene	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
71-55-6	1,1,1-Trichloroethane	250	U
79-00-5	1,1,2-Trichloroethane	250	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	500	U
79-01-6	Trichloroethene	9100	
75-69-4	Trichlorofluoromethane	250	U
75-01-4	Vinyl chloride	250	U
1330-20-7	Total Xylenes	750	U
103-65-1	n-Propylbenzene	250	U
99-87-6	p-Cymene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
104-51-8	n-Butylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

W072303 EJ-12

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1802.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/30/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 50.00

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

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ANALYSIS DATA SHEET

000017A

Client No.

W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	7	
156-59-2	cis-1,2-Dichloroethene	2300	E
156-60-5	trans-1,2-Dichloroethene	24	
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000017 B

Client No.

W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	3400	E
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	22	
1330-20-7	Total Xylenes	15	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

000017C

Client No.

W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

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ANALYSIS DATA SHEET

Client No.: W072303 EJ-16

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704502

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1787.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

QC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	38	
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: W072303 EJ 16

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704502

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1787.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	15	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

Client No.

W072303 EJ-16

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704502

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1787.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

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000023A

Client No.

W072303 EJ-17 RI

Lab Name: SIL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1780.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	570	E
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
98-82-8	Isopropylbenzene	5	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
1634-04-4	Methyl tert butyl ether	10	U

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000023B

Client No.

W072303 EJ-17 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1780.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	350	E
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	4	J
1330-20-7	Total Xylenes	15	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

000023 C

Client No.

W072303 EJ-17 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1780.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: W072303 EJ-17

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1803.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/30/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	490	
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	40	U
1634-04-4	Methyl tert butyl ether	40	U

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.

W072303 EJ-17

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1803.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/30/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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	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	320	
75-69-4	Trichlorofluoromethane	20	U
75-01-4	Vinyl chloride	20	U
1330-20-7	Total Xylenes	60	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

W072303 EJ-17

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1803.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/30/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 4.00

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: W072303 EJ-19

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704501

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1786.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	3	J
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.
W072303 EJ-19

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704501

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1786.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	7	
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U
1330-20-7	Total Xylenes	15	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

W072303 EJ-19

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704501

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1786.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
WATER SURROGATE RECOVERY

000027

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

	Client Sample ID	BFB %REC	#	DCE %REC	#	TOL %REC	#						TOT OUT
1	MSB11	94		99		98							0
2	MSB12	96		102		99							0
3	TRIP BLANK	96		104		99							0
4	VBLK10	97		103		100							0
5	VBLK11	96		105		99							0
6	VBLK12	96		102		99							0
7	VHB	95		104		98							0
8	W072303 EJ-12	94		102		98							0
9	W072303 EJ-12 RI	98		105		98							0
10	W072303 EJ-16	94		104		99							0
11	W072303 EJ-17	98		99		99							0
12	W072303 EJ-17 MS	94		100		98							0
13	W072303 EJ-17 RI	95		105		99							0
14	W072303 EJ-17 SD	94		99		97							0
15	W072303 EJ-19	95		104		98							0

		QC LIMITS
BFB	= p-Bromofluorobenzene	(86-115)
DCE	= 1,2-Dichloroethane-D4	(76-114)
TOL	= Toluene-D8	(88-110)

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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
WATER SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: ____

	Client Sample ID	BFB %REC	#	DCE %REC	#	TOL %REC	#						TOT OUT
1	MSB11	94		99		98							0
2	MSB12	96		102		99							0
3	TRIP BLANK	96		104		99							0
4	VBLK11	96		105		99							0
5	VBLK12	96		102		99							0
6	VHB	95		104		98							0
7	W072303 EJ-12	94		102		98							0
8	W072303 EJ-16	94		104		99							0
9	W072303 EJ-17	98		99		99							0
10	W072303 EJ-17 MS	94		100		98							0
11	W072303 EJ-17 SD	94		99		97							0
12	W072303 EJ-19	95		104		98							0

		QC LIMITS
BFB	= p-Bromofluorobenzene	(86-115)
DCE	= 1,2-Dichloroethane-D4	(76-114)
TOL	= Toluene-D8	(88-110)

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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
WATER MATRIX SPIKE BLANK RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3704507

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: ~~VBLK11~~ MSB11 for 3/31/203

COMPOUND	SPIKE ADDED UG/L	MSB CONCENTRATION UG/L	MSB % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	59.5	119	61 - 145
Trichloroethene	50.0	57.6	112	71 - 120
Benzene	50.0	56.3	113	76 - 127
Toluene	50.0	57.3	115	76 - 125
Chlorobenzene	50.0	54.4	109	75 - 130

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

* Values outside of QC limits

Spike recovery: 0 out of 5 outside limits

Comments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
WATER MATRIX SPIKE BLANK RECOVERY

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3704509

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

latrix Spike - Client Sample No.: ~~VBLK12~~

COMPOUND	SPIKE ADDED UG/L	MSB CONCENTRATION UG/L	MSB % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	50.9	102	61 - 145
richloroethene	50.0	50.0	100	71 - 120
enzene	50.0	50.2	100	76 - 127
Toluene	50.0	49.8	100	76 - 125
hlorobenzene	50.0	49.6	99	75 - 130

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

Values outside of QC limits

ike recovery: 0 out of 5 outside limits

omments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3704503

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: W072303 EJ-17

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	200	0	233	116	61 - 145
Trichloroethene	200	316	539	111	71 - 120
Benzene	200	0	219	110	76 - 127
Toluene	200	0	220	110	76 - 125
Chlorobenzene	200	0	215	108	75 - 130

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	200	236	118	2	14	61 - 145
Trichloroethene	200	554	119	7	14	71 - 120
Benzene	200	220	110	0	11	76 - 127
Toluene	200	218	109	0	13	76 - 125
Chlorobenzene	200	213	107	0	13	75 - 130

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

Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike recovery: 0 out of 10 outside limits

Comments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
METHOD BLANK SUMMARY

000038A

Client No.

VBLK10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: F1775.RR Lab Sample ID: A3704511

Date Analyzed: 07/29/2003 Time Analyzed: 12:04

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5973F

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	W072303 EJ-12 RI	A3704504RI	F1781.RR	15:01
2	W072303 EJ-17 RI	A3704503RI	F1780.RR	14:31

Comments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
METHOD BLANK SUMMARY

Client No.: VBLK11

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: F1783.RR Lab Sample ID: A3704507

Date Analyzed: 07/29/2003 Time Analyzed: 16:55

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5973F

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MSB11	A3704508	F1774.RR	11:35
2	TRIP BLANK	A3704505	F1784.RR	17:31
3	VHB	A3704506	F1785.RR	18:00
4	W072303 EJ-16	A3704502	F1787.RR	18:59
5	W072303 EJ-19	A3704501	F1786.RR	18:30

Comments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000038B

Client No.

VBLK10

Lab Name: SIL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704511

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1775.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000038C

Client No.

VBLK10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704511

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1775.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	15	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

000038 D

Client No.

VBLK10

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704511

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1775.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q
1.	DIMETHYLNAPHTHALENE ISOMER	10.11	9	J
2.	AROMATIC DERIVATIVE	11.71	10	J
3.	TRIMETHYLNAPHTHALENE ISOMER	12.16	5	J
4.	TRIMETHYLNAPHTHALENE ISOMER	12.24	6	J
5.	UNKNOWN	12.52	8	J
6.	TRIMETHYLNAPHTHALENE ISOMER	12.63	5	J

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ANALYSIS DATA SHEET

Client No.: VBLK11

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704507

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1783.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

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ANALYSIS DATA SHEET

Client No.: VBLK11

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704507

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1783.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	15	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
TENTAITVELY IDENTIFIED COMPOUNDS

Client No.: VHLK11

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704507

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1783.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
METHOD BLANK SUMMARY

Client No.: VBLK12

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: F1794.RR Lab Sample ID: A3704509

Date Analyzed: 07/29/2003 Time Analyzed: 22:31

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: HP5973F

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MSB12	A3704510	F1796.RR	23:30
2	W072303 EJ-12	A3704504	F1802.RR	02:26
3	W072303 EJ-17	A3704503	F1803.RR	02:55
4	W072303 EJ-17 MS	A3704503MS	F1804.RR	03:25
5	W072303 EJ-17 SD	A3704503SD	F1805.RR	03:54

Comments: _____

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: VBLK12

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704509

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1794.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: VBLK12

ab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

atrix: (soil/water) WATER Lab Sample ID: A3704509

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1794.RR

evel: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	15	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

Client No.

VBLK12

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704509

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1794.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

000039

Lab Name: STL Buffalo Contract: _____ Labsampid: A3C0004460

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): F1772.RR Date Analyzed: 07/29/2003

Instrument ID: HP5973F Time Analyzed: 10:35

GC Column(1): DB-624 ID: 0.250 (mm) Heated Purge: (Y/N) N

	IS1 (CBZ) AREA	#	RT	#	IS2 (DCB) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
12 HOUR STD	204428		7.32		205949		9.75		380044		4.66	
UPPER LIMIT	408856		7.82		411898		10.25		760088		5.16	
LOWER LIMIT	102214		6.82		102975		9.25		190022		4.16	
CLIENT SAMPLE												
MSB11	202920		7.32		194908		9.75		374191		4.66	
TRIP BLANK	193624		7.32		187382		9.75		354226		4.66	
VBLK10	195839		7.32		192522		9.75		364075		4.66	
VBLK11	193847		7.32		184993		9.75		356985		4.66	
VHB	192122		7.32		185001		9.75		352203		4.66	
W072303 EJ-12 RI	194813		7.32		190965		9.75		362319		4.66	
W072303 EJ-16	192161		7.32		181930		9.75		353921		4.66	
W072303 EJ-17 RI	197799		7.32		187933		9.75		361764		4.66	
W072303 EJ-19	192659		7.32		186611		9.75		351185		4.66	

	AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (CBZ) = Chlorobenzene-D5	(50-200)	-0.50 / +0.50 min
IS2 (DCB) = 1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min
IS3 (DFB) = 1,4-Difluorobenzene	(50-200)	-0.50 / +0.50 min

Column to be used to flag recovery values
* Values outside of contract required QC limits

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Buffalo Contract: _____ Labsampid: A3C0004460

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): F1772.RR Date Analyzed: 07/29/2003

Instrument ID: HP5973F Time Analyzed: 10:35

GC Column(1): DB-624 ID: 0.250 (mm) Heated Purge: (Y/N) N

		IS1 (CBZ) AREA	#	RT	#	IS2 (DCB) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
	12 HOUR STD	204428		7.32		205949		9.75		380044		4.66	
	UPPER LIMIT	408856		7.82		411898		10.25		760088		5.16	
	LOWER LIMIT	102214		6.82		102975		9.25		190022		4.16	
	CLIENT SAMPLE												
1	MSB11	202920		7.32		194908		9.75		374191		4.66	
2	TRIP BLANK	193624		7.32		187382		9.75		354226		4.66	
3	VBLK11	193847		7.32		184993		9.75		356985		4.66	
4	VHB	192122		7.32		185001		9.75		352203		4.66	
5	W072303 EJ-16	192161		7.32		181930		9.75		353921		4.66	
6	W072303 EJ-19	192659		7.32		186611		9.75		351185		4.66	

	AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (CBZ) = Chlorobenzene-D5	(50-200)	-0.50 / +0.50 min
IS2 (DCB) = 1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min
IS3 (DFB) = 1,4-Difluorobenzene	(50-200)	-0.50 / +0.50 min

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Buffalo Contract: _____ Labsampid: A3C0004459

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): F1793.RR Date Analyzed: 07/29/2003

Instrument ID: HP5973F Time Analyzed: 21:12

GC Column(1): DB-624 ID: 0.250(mm) Heated Purge: (Y/N) N

	IS1 (CBZ) AREA	#	RT	#	IS2 (DCB) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
12 HOUR STD	199829		7.32		202941		9.75		368529		4.66	
UPPER LIMIT	399658		7.82		405882		10.25		737058		5.16	
LOWER LIMIT	99915		6.82		101471		9.25		184265		4.16	
CLIENT SAMPLE												
1 MSB12	194608		7.32		184977		9.75		357207		4.66	
^ VBLK12	188867		7.32		178982		9.75		347158		4.66	
W072303 EJ-12	185266		7.32		175193		9.75		340630		4.66	
W072303 EJ-17	182551		7.32		174992		9.75		343141		4.66	
5 W072303 EJ-17 MS	186786		7.32		177209		9.75		348062		4.66	
W072303 EJ-17 SD	187643		7.32		174014		9.75		344142		4.66	

	AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (CBZ) = Chlorobenzene-D5	(50-200)	-0.50 / +0.50 min
IS2 (DCB) = 1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min
IS3 (DFB) = 1,4-Difluorobenzene	(50-200)	-0.50 / +0.50 min

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

SAMPLE DATA PACKAGE

SDG NARRATIVE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A3704505	TRIP BLANK	07/23/2003		07/23/2003	19:25
A3704504	W072303 EJ-12	07/23/2003	17:45	07/23/2003	19:25
A3704502	W072303 EJ-16	07/23/2003	12:10	07/23/2003	19:25
A3704503	W072303 EJ-17	07/23/2003	13:25	07/23/2003	19:25
A3704503MS	W072303 EJ-17 MS	07/23/2003	13:25	07/23/2003	19:25
A3704503SD	W072303 EJ-17 SD	07/23/2003	13:25	07/23/2003	19:25
A3704501	W072303 EJ-19	07/23/2003	09:50	07/23/2003	19:25

METHODS SUMMARY

Job#: A03-7045

STL Project#: NY2A8896
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

PARAMETER	ANALYTICAL METHOD	
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS	ASP00	8260/5ML

References:

ASP00 "Analytical Services Protocol", New York State Department of Conservation, June 2000.

NON-CONFORMANCE SUMMARY

Job#: A03-7045

STL Project#: NY2A8896
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

A03-7045
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The ASP Volatile procedure has been modified in order to accomodate the need to quantitate additional analytes not analyzed by method ASP00. Specifically the internal standard 1,4-Dichlorobenzene-D4, has been used instead of the ASP required internal standard Bromochloromethane.

All samples were preserved to a PH less than 2.

STL Buffalo internal validation report is included in this report as Appendix A.

****

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 data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Brian J. Fischer
Project Manager

7-31-03
Date

CHAIN OF CUSTODY DOCUMENTATION

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

STL-4124 (0101)

Client: Bergmann Associates	Project Manager: Edward Jones	Date: 07/23/03	Chain of Custody Number: 112836
Address: 200 First Federal plaza 28 E-MAIN ST	Telephone Number (Area Code)/Fax Number: (585) 232-5137 X 409	Lab Number:	Page 1 of 2
City: Rochester / State: NY / Zip Code: 14614	Site Contact: —	Lab Contact: Brian Fischer	
Project Name and Location (State): Gowanda VCA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No: 5596-12			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TCL BN's + TCL VOC's	Special Instructions/ Conditions of Receipt
W072203EJ-08	07/22/03	0900		X						X			X	
W072203EJ-10	07/22/03	1015		X						X			X	
W072203EJ-04	07/22/03	1130		X						X			X	
W072203EJ-09	07/22/03	1230		X						X			X	
W072203EJ-03	07/22/03	1340		X						X			X	
W072203EJ-02	07/22/03	1435		X						X			X	
W072203EJ-05	07/22/03	1530		X						X			X	
W072203EJ-14	07/22/03	1715		X						X			X	
W072203EJ-13	07/22/03	1815		X						X			X	
W072203EJ-06	07/22/03	1915		X						X			X	
W072203EJ-07	07/22/03	2000		X						X			X	
W072303EJ-19	07/23/03	0950		X						X			X	ASP

Possible Hazard Identification: ☐ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months (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

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Edward Jones	07/23/03	1905	1. Received By: [illegible]	07/23/03	1905
2. Relinquished By:	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report, CANARY - Stays with the Sample, PINK - Field Copy

10/2006

Chain of Custody Record

SEVERN TRENT SERVICES — Severn Trent Laboratories, Inc.

Client: Bergmann Associates	Project Manager: Edward Jones	Date: 07/23/03	Chain of Custody Number: 112837
Address: 200 First Federal plaza	Telephone Number (Area Code)/Fax Number: (585) 232-5137 x409	Lab Number:	Page 2 of 2
City: Rochester	State: NY	Zip Code: 14614	Site Contact: —	Lab Contact: Brian Fischer
Project Name and Location (State): Gowanda VCA	Carrier/Waybill Number: —	
Contract/Purchase Order/Quote No.: 5596-12		

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): VOCs - TCL 8260	Special Instructions/ Conditions of Receipt
W072303EJ-19D	07/23/03	0950		X						X			X	
W072303EJ-16	07/23/03	1210		X						X			X	ASP
W072303EJ-17	07/23/03	1325		X						X			X	ASP
W072303EJ-17MS	07/23/03	1325		X						X			X	ASP-MS # 17
W072303EJ-17MSD	07/23/03	1325		X						X			X	ASP-MSD # 17
W072303EJ-15	07/23/03	1425		X						X			X	
W072303EJ-18	07/23/03	1445		X						X			X	
W072303EJ-01	07/23/03	1550		X						X			X	
W072303EJ-11	07/23/03	1650		X						X			X	
W072303EJ-12	07/23/03	1745		X						X			X	ASP;
W072303EJ-TB12	07/23/03	1750		X						X			X	
T.B.	07/11/03			X						X			X	ASP

Possible Hazard Identification: X Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ X Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ X 7 Days ☐ 14 Days ☐ 21 Days ☐ Other STANDARD

QC Requirements (Specify):

1. Relinquished By: Edward Jones	Date: 07/23/03	Time: 1905	1. Received By: [illegible]	Date: 07/23/03	Time: 1905
2. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments: 2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Stays with the Sample. PINK - Field Copy

Rec'd 7/24/03

SEVERN TRENT STL

ANALYTICAL REPORT

Job#: A03-6612

STL Project#: NY2A8896
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center
Task: ASP00 LEVEL IV DELIVERABLES

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

STL Buffalo

Brian J. Fischer
Project Manager

07/28/2003

Severn Trent Laboratories, Inc.
STL Buffalo • 10 Hazelwood Drive, Suite 106, Amherst, NY 14228
Tel 716 691 2600 Fax 716 691 7991 • www.stl-inc.com

SAMPLE DATA SUMMARY PACKAGE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A3661203	S071003EJMW18 16-18	07/10/2003	14:00	07/11/2003	15:30
A3661203MS	S071003EJMW18 16-18	07/10/2003	14:00	07/11/2003	15:30
A3661203SD	S071003EJMW18 16-18	07/10/2003	14:00	07/11/2003	15:30
A3661206	W071103EJTB	07/11/2003	11:15	07/11/2003	15:30

NON-CONFORMANCE SUMMARY

Job#: A03-6612

STL Project#: NY2A8896
Site Name: Berkmann 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

A03-6612
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The analyte Acetone was detected in the Method Blanks VBLK94, VBLK95 and VBLK98 and the 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 analyte Methylene Chloride was detected in the Method Blanks VBLK94, VBLK95 and VBLK98 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 the analyte Trichloroethene in the Matrix Spike Duplicate of sample S071003EJMW18 16-18 exceeded QC limits. The relative percent difference between the Matrix Spike and the Matrix Spike duplicate of sample S071003EJMW18 16-18 also exceeded quality control limits for the analyte Trichloroethene. The Matrix Spike Blank recoveries were compliant, so no corrective action is required.

The ASP Volatile procedure has been modified in order to accomodate the need to quantitate additional analytes not analyzed by method ASP00. Specifically the internal standard 1,4-Dichlorobenzene-D4, has been used instead of the ASP required internal standard Bromochloromethane.

All water samples were preserved to a PH less than 2.

STL Buffalo internal validation reports are included in this report as Appendix A.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

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Brian J. Fischer
Project Manager

7-28-03
Date

METHODS SUMMARY

Job#: A03-6612

STL Project#: NY2A8896
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
Leachable pH	ASP00	9045

References:

ASP00 "Analytical Services Protocol", New York State Department of Conservation, June 2000.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE 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	TCLP HERB	WATER QUALITY
S071003EJMW18 16-	A3661203	ASP00	-	-	-	-	-	ASP00

NYSDEC-1

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE 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
S071003EJMW18 16-18	SOIL	07/10/2003	07/11/2003	-	07/17/2003

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE 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
S071003EJMW18 16-18	SOIL	ASP00	-	AS REQUIRED	AS REQUIRED

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE 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
S071003EJMW18 16-18	SOIL	ASP00	ASP00	AS REQUIRED	AS REQUIRED

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
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 at or above the reporting limit.
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.

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.

S071003EJMW18 16-18

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661203

Sample wt/vol: 5.01 (g/mL) G Lab File ID: F1570.RR

Level: (low/med) LOW Date Samp/Recv: 07/10/2003 07/11/2003

% Moisture: not dec. 14.0 Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	19	B
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	12	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	500	E
156-60-5	trans-1,2-Dichloroethene	1	J
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	9	BJ
1634-04-4	Methyl tert butyl ether	12	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: S071003EJMW18 16-18

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661203

Sample wt/vol: 5.01 (g/mL) G Lab File ID: F1570.RR

Level: (low/med) LOW Date Samp/Recv: 07/10/2003 07/11/2003

% Moisture: not dec. 14.0 Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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	110	
75-69-4	Trichlorofluoromethane	2	J
75-01-4	Vinyl chloride	12	U
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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

S071003EJMW18 16-18

ab Name: STL Buffalo Contract: _____

ab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: ____

atrix: (soil/water) SOIL Lab Sample ID: A3661203

ample wt/vol: 5.01 (g/mL) G Lab File ID: F1570.RR

evel: (low/med) LOW Date Samp/Recv: 07/10/2003 07/11/2003

Moisture: not dec. 14.0 Date Analyzed: 07/17/2003

C Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

oil Extract Volume: ____ (uL) Soil Aliquot Volume: _____ (uL)

umber TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	Compound Name	RT	Est. Conc.	Q

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.

S071003EJMW18 16-18

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661203DL

Sample wt/vol: 1.20 (g/mL) G Lab File ID: F1577.RR

Level: (low/med) LOW Date Samp/Recv: 07/10/2003 07/11/2003

% Moisture: not dec. 14.0 Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	38	BDJ
71-43-2	Benzene	48	U
75-27-4	Bromodichloromethane	48	U
75-25-2	Bromoform	48	U
74-83-9	Bromomethane	48	U
78-93-3	2-Butanone	48	U
75-15-0	Carbon Disulfide	48	U
56-23-5	Carbon Tetrachloride	48	U
74-87-3	Chloromethane	48	U
108-90-7	Chlorobenzene	48	U
75-00-3	Chloroethane	48	U
110-82-7	Cyclohexane	48	U
67-66-3	Chloroform	48	U
96-12-8	1,2-Dibromo-3-chloropropane	48	U
124-48-1	Dibromochloromethane	48	U
75-71-8	Dichlorodifluoromethane	48	U
106-93-4	1,2-Dibromoethane	48	U
95-50-1	1,2-Dichlorobenzene	48	U
541-73-1	1,3-Dichlorobenzene	48	U
106-46-7	1,4-Dichlorobenzene	48	U
75-34-3	1,1-Dichloroethane	48	U
107-06-2	1,2-Dichloroethane	48	U
75-35-4	1,1-Dichloroethene	48	U
156-59-2	cis-1,2-Dichloroethene	380	D
156-60-5	trans-1,2-Dichloroethene	48	U
78-87-5	1,2-Dichloropropane	48	U
10061-01-5	cis-1,3-Dichloropropene	48	U
10061-02-6	trans-1,3-Dichloropropene	48	U
100-41-4	Ethylbenzene	48	U
591-78-6	2-Hexanone	48	U
98-82-8	Isopropylbenzene	48	U
79-20-9	Methyl acetate	48	U
75-09-2	Methylene chloride	46	BDJ
1634-04-4	Methyl tert butyl ether	48	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: S071003EJMW18 16-18

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661203DL

Sample wt/vol: 1.20 (g/mL) G Lab File ID: F1577.RR

Level: (low/med) LOW Date Samp/Recv: 07/10/2003 07/11/2003

% Moisture: not dec. 14.0 Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	48	U
108-87-2	Methylcyclohexane	48	U
100-42-5	Styrene	48	U
79-34-5	1,1,2,2-Tetrachloroethane	48	U
127-18-4	Tetrachloroethene	48	U
108-88-3	Toluene	48	U
120-82-1	1,2,4-Trichlorobenzene	48	U
71-55-6	1,1,1-Trichloroethane	48	U
79-00-5	1,1,2-Trichloroethane	48	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	48	U
79-01-6	Trichloroethene	150	D
75-69-4	Trichlorofluoromethane	48	U
75-01-4	Vinyl chloride	48	U
1330-20-7	Total Xylenes	48	U
103-65-1	n-Propylbenzene	48	U
99-87-6	p-Cymene	48	U
95-63-6	1,2,4-Trimethylbenzene	48	U
108-67-8	1,3,5-Trimethylbenzene	48	U
104-51-8	n-Butylbenzene	48	U
135-98-8	sec-Butylbenzene	48	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

S071003EJMW18 16-18

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661203DL

Sample wt/vol: 1.20 (g/mL) G Lab File ID: F1577.RR

Level: (low/med) LOW Date Samp/Recv: 07/10/2003 07/11/2003

% Moisture: not dec. 14.0 Date Analyzed: 07/17/2003

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	3.17	36	JN

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: W071103EJTB

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3661206

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1569.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2003 07/11/2003

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	10	BJ
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-chloropropene	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-Dichloropropene	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	10	U
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: W071103EJTB

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3661206

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1569.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2003 07/11/2003

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	15	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

W071103EJTB

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3661206

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1569.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2003 07/11/2003

% Moisture: not dec. _____ Date Analyzed: 07/17/2003

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. 420-56-4	FLUOROTRIMETHYL SILANE	1.79	6	JN

Bergmann Associates, Inc.
Bergmann Assoc. - Gowanda Day Habilitation Center
Wet Chemistry Analysis

Client Sample No.: S071003EJMW18 16-18

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Matrix (soil/water): SOIL Lab Sample ID: A3661203

% Solids: 0.0 Date Samp/Recv: 07/10/2003 07/11/2003

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Leachable pH	S.U.	7.86				9045	07/15/2003

Comments:

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
SOIL SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Level (low/med): LOW

	Client Sample ID	BFB %REC	#	DCE %REC	#	TOL %REC	#						TOT OUT
1	MSB94	105		110		104							0
2	MSB95	95		100		95							0
3	MSB98	91		103		92							0
4	S071003EJMW18 16-18	91		110		94							0
5	S071003EJMW18 16-18	91		96		102							0
6	S071003EJMW18 16-18	94		109		90							0
7	S071003EJMW18 16-18	96		112		100							0
8	VBLK94	92		103		95							0
9	VBLK95	92		109		93							0
10	VBLK98	87		99		89							0

QC LIMITS

BFB = p-Bromofluorobenzene (59-113)
DCE = 1,2-Dichloroethane-D4 (70-121)
TOL = Toluene-D8 (84-138)

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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
WATER SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: ____

	Client Sample ID	BFB %REC	#	DCE %REC	#	TOL %REC	#						TOT OUT
1	MSB94	105		110		104							0
2	VBLK94	92		103		95							0
3	VOL HOLD BLANK	90		104		97							0
4	W071103EJTB	96		110		100							0

QC LIMITS

BFB = p-Bromofluorobenzene (86-115)
DCE = 1,2-Dichloroethane-D4 (76-114)
TOL = Toluene-D8 (88-110)

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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3661214

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: ~~VBLK94~~ MSB94 MSD 11/24/203 Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	53.6	107	59 - 172
Trichloroethene	50.0	51.8	104	62 - 137
Benzene	50.0	52.2	104	66 - 142
Toluene	50.0	50.5	101	59 - 139
Chlorobenzene	50.0	50.3	101	60 - 133

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

Values outside of QC limits

Spike recovery: 0 out of 5 outside limits

Comments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
WATER MATRIX SPIKE BLANK RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3661208

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: ~~VBLK94~~ MSB94 3/24/23

COMPOUND	SPIKE ADDED UG/L	MSB CONCENTRATION UG/L	MSB % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	53.6	107	61 - 145
Trichloroethene	50.0	51.8	104	71 - 120
Benzene	50.0	52.2	104	76 - 127
Toluene	50.0	50.5	101	76 - 125
Chlorobenzene	50.0	50.3	101	75 - 130

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

Values outside of QC limits

Spike recovery: 0 out of 5 outside limits

Comments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
SOIL MATRIX SPIKE BLANK RECOVERY

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3661210

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

atrix Spike - Client Sample No.: ~~VBLK95~~ 115595 Level: (low/med) LOW

3/24/2003

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	46.7	93	59 - 172
Trichloroethene	50.0	46.3	93	62 - 137
Benzene	50.0	46.0	92	66 - 142
Toluene	50.0	45.2	90	59 - 139
Chlorobenzene	50.0	45.7	91	60 - 133

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

Values outside of QC limits

pike recovery: 0 out of 5 outside limits

mments: _____

BERGMANN ASSOCIATES, INC.
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BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3661212

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: ~~VBLK98~~ MSB48 Level: (low/med) LOW

7/24/2003

COMPOUND	SPIKE ADDED UG/KG	MSB CONCENTRATION UG/KG	MSB % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	49.9	100	59 - 172
Trichloroethene	50.0	47.8	96	62 - 137
Benzene	50.0	48.5	97	66 - 142
Toluene	50.0	47.9	96	59 - 139
Chlorobenzene	50.0	47.9	96	60 - 133

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

* Values outside of QC limits

Spike recovery: 0 out of 5 outside limits

Comments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
SOIL MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3661203

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - Client Sample No.: S071003EJMW18 16-18 Level: (low/med) LOW

COMPOUND	SPIKE ADDED UG/KG	SAMPLE CONCENTRATION UG/KG	MS CONCENTRATION UG/KG	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	56.6	0	53.3	94	59 - 172
Trichloroethene	56.6	108	155	83	62 - 137
Benzene	56.6	0	49.9	88	66 - 142
Toluene	56.6	0	41.4	73	59 - 139
Chlorobenzene	56.6	0	34.6	61	60 - 133

COMPOUND	SPIKE ADDED UG/KG	MSD CONCENTRATION UG/KG	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	57.0	64.9	114	19	22	59 - 172
Trichloroethene	57.0	138	52 *	46 *	24	62 - 137
Benzene	57.0	57.3	100	13	21	66 - 142
Toluene	57.0	51.5	90	21	21	59 - 139
Chlorobenzene	57.0	42.4	74	19	21	60 - 133

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

Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike recovery: 1 out of 10 outside limits

Comments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
METHOD BLANK SUMMARY

Client No.: VBLK94

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: F1565.RR Lab Sample ID: A3661214

Date Analyzed: 07/17/2003 Time Analyzed: 17:28

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP5973F

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MSB94	A3661215	F1563.RR	16:51
2	S071003EJMW18 16-18	A3661203DL	F1577.RR	22:49

Comments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: VBLK94

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661214

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F1565.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	8	J
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	10	U
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	10	U
67-66-3	Chloroform	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
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	10	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	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	3	J
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
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BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: VELK94

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661214

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F1565.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	10	U
108-87-2	Methylcyclohexane	10	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	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	10	U
79-01-6	Trichloroethene	10	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: VBLK94

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661214

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F1565.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Date Analyzed: 07/17/2003

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. 75-37-6	1,1-DIFLUOROETHANE	1.42	8	JN

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
METHOD BLANK SUMMARY

Client No.: VBLK94

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: F1565.RR Lab Sample ID: A3661208

Date Analyzed: 07/17/2003 Time Analyzed: 17:28

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP5973F

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MSB94	A3661209	F1563.RR	16:51
2	VOL HOLD BLANK	A3661207	F1567.RR	18:15
3	W071103EJTB	A3661206	F1569.RR	18:51

Comments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: VBLK94

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3661208

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1565.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	8	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	10	U
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: VBLK94

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3661208

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1565.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	15	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: VBLK94

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3661208

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1565.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Date Analyzed: 07/17/2003

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. 75-37-6	1,1-DIFLUOROETHANE	1.42	8	JN

BERGMANN ASSOCIATES, INC.
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BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
METHOD BLANK SUMMARY

Client No.: VBLK95

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: F1566.RR Lab Sample ID: A3661210

Date Analyzed: 07/17/2003 Time Analyzed: 17:47

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP5973F

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MSB95	A3661211	F1564.RR	17:11
2	S071003EJMW18 16-18	A3661203	F1570.RR	19:09
3	S071003EJMW18 16-18	A3661203SD	F1572.RR	19:45

Comments: _____

BERGMANN ASSOCIATES, INC.
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BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: VELK95

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661210

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F1566.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	7	J
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	10	U
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	10	U
67-66-3	Chloroform	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
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	10	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	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	3	J
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.
VBLK95

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661210

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F1566.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	10	U
108-87-2	Methylcyclohexane	10	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	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	10	U
79-01-6	Trichloroethene	10	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: VBLK95

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661210

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F1566.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Date Analyzed: 07/17/2003

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. 75-37-6	1,1-DIFLUOROETHANE	1.41	7	JN

BERGMANN ASSOCIATES, INC.
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BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
METHOD BLANK SUMMARY

Client No.
VBLK98

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID: F1629.RR Lab Sample ID: A3661212

Date Analyzed: 07/21/2003 Time Analyzed: 13:36

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP5973F

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	MSB98	A3661213	F1625.RR	12:17
2	S071003EJMW18 16-18	A3661203MS	F1632.RR	15:09

Comments: _____

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: VBLK98

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661212

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F1629.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/21/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	9	J
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	10	U
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	10	U
67-66-3	Chloroform	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
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	10	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	10	U
98-82-8	Isopropylbenzene	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	2	J
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: VBLK98

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661212

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F1629.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/21/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-10-1	4-Methyl-2-pentanone	10	U
108-87-2	Methylcyclohexane	10	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	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	10	U
79-01-6	Trichloroethene	10	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

BERGMANN ASSOCIATES, INC.
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BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: VBLK98

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661212

Sample wt/vol: 5.00 (g/mL) G Lab File ID: F1629.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Date Analyzed: 07/21/2003

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.	128-37-0	BUTYLATED HYDROXYTOLUENE	11.47	40	JN

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BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Buffalo Contract: _____ Labsampid: A3C0004233

Lab Code: RECNY Case No.: ____ SAS No.: ____ SDG No.: ____

Lab File ID (Standard): F1559.RR Date Analyzed: 07/17/2003

Instrument ID: HP5973F Time Analyzed: 13:41

GC Column(1): DB-624 ID: 0.250(mm) Heated Purge: (Y/N) Y

	IS1 (CBZ) AREA	#	RT	#	IS2 (DCB) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
12 HOUR STD	145932		7.32		134750		9.75		313017		4.66	
UPPER LIMIT	291864		7.82		269500		10.25		626034		5.16	
LOWER LIMIT	72966		6.82		67375		9.25		156509		4.16	
CLIENT SAMPLE												
1 MSB94	137781		7.32		126764		9.75		292492		4.66	
MSB95	150315		7.32		136321		9.75		323851		4.66	
S071003EJMW18 16-18	136068		7.32		111545		9.75		285552		4.66	
4 S071003EJMW18 16-18	148561		7.32		114645		9.75		334481		4.65	
S071003EJMW18 16-18	135622		7.32		113489		9.75		289838		4.66	
VBLK94	150587		7.32		129287		9.75		317577		4.66	
7 VBLK95	147879		7.31		126337		9.75		307781		4.66	

	AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (CBZ) = Chlorobenzene-D5	(50-200)	-0.50 / +0.50 min
IS2 (DCB) = 1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min
IS3 (DFB) = 1,4-Difluorobenzene	(50-200)	-0.50 / +0.50 min

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Buffalo Contract: _____ Labsampid: A3C0004233

Lab Code: RECNY Case No.: ____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): F1559.RR Date Analyzed: 07/17/2003

Instrument ID: HP5973F Time Analyzed: 13:41

GC Column(1): DB-624 ID: 0.250(mm) Heated Purge: (Y/N) Y

		IS1 (CBZ) AREA	#	RT	#	IS2 (DCB) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
	12 HOUR STD	145932		7.32		134750		9.75		313017		4.66	
	UPPER LIMIT	291864		7.82		269500		10.25		626034		5.16	
	LOWER LIMIT	72966		6.82		67375		9.25		156509		4.16	
	CLIENT SAMPLE												
1	MSB94	137781		7.32		126764		9.75		292492		4.66	
2	VBLK94	150587		7.32		129287		9.75		317577		4.66	
3	VOL HOLD BLANK	132842		7.32		107199		9.75		285546		4.66	
4	W071103EJTB	128808		7.32		107341		9.75		275148		4.66	

	AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (CBZ) = Chlorobenzene-D5	(50-200)	-0.50 / +0.50 min
IS2 (DCB) = 1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min
IS3 (DFB) = 1,4-Difluorobenzene	(50-200)	-0.50 / +0.50 min

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL Buffalo Contract: _____ Labsampid: A3C0004347

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Lab File ID (Standard): F1624.RR Date Analyzed: 07/21/2003

Instrument ID: HP5973F Time Analyzed: 11:43

GC Column(1): DB-624 ID: 0.250(mm) Heated Purge: (Y/N) Y

	IS1 (CBZ) AREA	#	RT	#	IS2 (DCB) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
12 HOUR STD	127935		7.32		117217		9.75		270534		4.66	
UPPER LIMIT	255870		7.82		234434		10.25		541068		5.16	
LOWER LIMIT	63968		6.82		58609		9.25		135267		4.16	
CLIENT SAMPLE												
1 MSB98	137105		7.32		111300		9.75		284134		4.66	
2 S071003EJMW18 16-18	145667		7.32		125538		9.75		297854		4.66	
3 VBLK98	137219		7.32		115790		9.75		283216		4.66	

	AREA UNIT QC LIMITS	RT QC LIMITS
IS1 (CBZ) = Chlorobenzene-D5	(50-200)	-0.50 / +0.50 min
IS2 (DCB) = 1,4-Dichlorobenzene-D4	(50-200)	-0.50 / +0.50 min
IS3 (DFB) = 1,4-Difluorobenzene	(50-200)	-0.50 / +0.50 min

\# Column to be used to flag recovery values
* Values outside of contract required QC limits

SAMPLE DATA PACKAGE

SDG NARRATIVE

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A3661203	S071003EJMW18 16-18	07/10/2003	14:00	07/11/2003	15:30
A3661203MS	S071003EJMW18 16-18	07/10/2003	14:00	07/11/2003	15:30
A3661203SD	S071003EJMW18 16-18	07/10/2003	14:00	07/11/2003	15:30
A3661206	W071103EJTB	07/11/2003	11:15	07/11/2003	15:30

METHODS SUMMARY

Job#: A03-6612

STL Project#: NY2A8896
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
leachable pH	ASP00	9045

References:

ASP00 "Analytical Services Protocol", New York State Department of Conservation, June 2000.

NON-CONFORMANCE SUMMARY

Job#: A03-6612

STL Project#: NY2A8896
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

A03-6612
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The analyte Acetone was detected in the Method Blanks VBLK94, VBLK95 and VBLK98 and the 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 analyte Methylene Chloride was detected in the Method Blanks VBLK94, VBLK95 and VBLK98 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 the analyte Trichloroethene in the Matrix Spike Duplicate of sample S071003EJMW18 16-18 exceeded QC limits. The relative percent difference between the Matrix Spike and the Matrix Spike duplicate of sample S071003EJMW18 16-18 also exceeded quality control limits for the analyte Trichloroethene. The Matrix Spike Blank recoveries were compliant, so no corrective action is required.

The ASP Volatile procedure has been modified in order to accomodate the need to quantitate additional analytes not analyzed by method ASP00. Specifically the internal standard 1,4-Dichlorobenzene-D4, has been used instead of the ASP required internal standard Bromochloromethane.

All water samples were preserved to a PH less than 2.

STL Buffalo internal validation reports are included in this report as Appendix A.

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 data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Brian J. Fischer
Project Manager

7-28-03
Date

CHAIN OF CUSTODY DOCUMENTATION

Chain of Custody Record

SEVERN TRENT SERVICES — **Severn Trent Laboratories, Inc.**

STL 4124 (0901)

Client: Bergmann Associates	Project Manager: Edward Jones	Date:	Chain of Custody Number: 112570
Address: 200 First Federal Plaza 28 E. Main St.	Telephone Number (Area Code)/Fax Number: (585) [redacted] 232-5135	Lab Number:	Page 1 of 1
City: Rochester / State: NY / Zip Code: 14614	Site Contact:	Lab Contact: Brian Fischer	
Project Name and Location (State): Gowanda VCA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 5596.12			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres	HNO3	H2SO4	HCl	NaOH	ZnAc/NaOH	Analysis: VOCs 8260	Special Instructions/ Conditions of Receipt
S070903EJ mw17-20	07/09/03	17 00				X	X						X	
S071003EJ mw16-18	07/10/03	0900				X	X						X	
S071003EJ mw18 16-18	07/10/03	1400				X	X						X	ASP Deliverable
S071003EJ mw18 16-18	07/10/03	1400				X	X						MS-VOCs	ASP-MS
S071003EJ mw18 16-18	07/10/03	1406				X	X						MSD-VOCs	ASP MS D
S071103EJ mw19 12-14	07/11/03	10 00				X	X						X	
S071103EJ mw19 12-14 Dup	07/11/03	10 00				X	X						X	
W071103EJ mw19FB	07/11/03	1115		X						X			X	
W071103EJ T.B.	07/11/03			X						X			X	

Possible Hazard Identification: [X] Non Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months (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

QC Requirements (Specify): CLIENT SPECIFIC

	Date	Time		Date	Time
1 Relinquished By: Edward Jones	07/11/03	15:30	1 Received By:		
2 Relinquished By:			2 Received By: STL	7-11-03	15:30
3 Relinquished By:			3 Received By:		

Comments: 2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report CANARY - Stays with the Sample. PINK - Field Copy

SEVERN TRENT STL

ANALYTICAL REPORT

Job#: A03-6668

STL Project#: NY2A8896
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center
Task: SW8463 DELIVERABLES

Mr. Edward Jones
Bergmann Associates
28 East Main Street
Rochester, NY 14614

STL Buffalo

Brian J. Fischer
Project Manager

07/29/2003

Severn Trent Laboratories, Inc.
STL Buffalo • 10 Hazelwood Drive, Suite 106, Amherst, NY 14228
Tel 716 691 2600 Fax 716 691 7991 • www.stlinc.com

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A3661201	S070903EJMW17-20	07/09/2003	17:00	07/11/2003	15:30
A3661202	S071003EJMW16-18	07/10/2003	09:00	07/11/2003	15:30
A3661204	S071103EJMW19 12-14	07/11/2003	10:00	07/11/2003	15:30
A3661204FD	S071103EJMW19 12-14	07/11/2003	10:00	07/11/2003	15:30
A3661205	W071103EJMW19FB	07/11/2003	11:15	07/11/2003	15:30

NON-CONFORMANCE SUMMARY

Job#: A03-6668

STL Project#: NY2A8896
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

A03-6668
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

STL Buffalo internal validation report is included in this report as Appendix A.

****

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 data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Brian J. Fischer
Project Manager

7-29-03
Date

METHODS SUMMARY

Job#: A03-6668

STL Project#: NY2A8896
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

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.

DATA COMMENT PAGE

ORGANIC DATA QUALIFIERS

ND or U	Indicates compound was analyzed for, but not detected at or above the reporting limit.
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/Arocior 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.
1	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 at or above the reporting limit.
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.

Sample Data Package

Client ID		S07C903EJMW17-20		S071003EJMW16-18		S071103EJMW19 12-14		S071103EJMW19 12-14	
Job No	Lab ID	A03-6668	A3661201	A03-6668	A3661202	A03-6668	A3661204	A03-6668	A3661204FD
Sample Date		07/09/2003		07/10/2003		07/11/2003		07/11/2003	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	27	ND	27	ND	28	ND	29
Benzene	UG/KG	ND	5	ND	5	ND	6	ND	6
Bromodichloromethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Bromoform	UG/KG	ND	5	ND	5	ND	6	ND	6
Bromomethane	UG/KG	ND	5	ND	5	ND	6	ND	6
2-Butanone	UG/KG	ND	27	ND	27	ND	28	ND	29
Carbon Disulfide	UG/KG	ND	5	ND	5	ND	6	ND	6
Carbon Tetrachloride	UG/KG	ND	5	ND	5	ND	6	ND	6
Chloromethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Chlorobenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
Chloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Cyclohexane	UG/KG	ND	5	ND	5	ND	6	ND	6
Chloroform	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	5	ND	6	ND	6
Dibromochloromethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Dichlorodifluoromethane	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2-Dibromoethane	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,4-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,1-Dichloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2-Dichloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6
1,1-Dichloroethene	UG/KG	ND	5	ND	5	ND	6	ND	6
cis-1,2-Dichloroethene	UG/KG	200	5	10	5	2 J	6	8	6
trans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2-Dichloropropane	UG/KG	ND	5	ND	5	ND	6	ND	6
cis-1,3-Dichloropropene	UG/KG	ND	5	ND	5	ND	6	ND	6
trans-1,3-Dichloropropene	UG/KG	ND	5	ND	5	ND	6	ND	6
Ethylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
2-Hexanone	UG/KG	ND	27	ND	27	ND	28	ND	29
Isopropylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
Methyl acetate	UG/KG	ND	5	ND	5	ND	6	ND	6
Methylene chloride	UG/KG	7	5	6	5	7	6	7	6
Methyl tert butyl ether	UG/KG	ND	5	ND	5	ND	6	ND	6
4-Methyl-2-pentanone	UG/KG	ND	27	ND	27	ND	28	ND	29
Methylcyclohexane	UG/KG	ND	5	ND	5	ND	6	ND	6
Styrene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,1,2,2-Tetrachloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Tetrachloroethene	UG/KG	ND	5	ND	5	ND	6	ND	6
Toluene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,1,1-Trichloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6
1,1,2-Trichloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		S070903EJMW17-20		S071003EJMW16-18		S071103EJMW19 12-14		S071103EJMW19 12-14	
Job No / Lab ID		A03-6668 / A3661201		A03-6668 / A3661202		A03-6668 / A3661204		A03-6668 / A3661204FD	
Sample Date		07/09/2003		07/10/2003		07/11/2003		07/11/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	5	ND	5	ND	6	ND	6
Trichloroethene	UG/KG	26	5	ND	5	14	6	37	6
Trichlorofluoromethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Vinyl chloride	UG/KG	ND	11	ND	11	ND	11	ND	12
Total Xylenes	UG/KG	ND	16	ND	16	ND	16	ND	18
n-Propylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
p-Cymene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2,4-Trimethylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,3,5-Trimethylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
n-Butylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
sec-Butylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
========18/SURROGATE(S)========									
Chlorobenzene-D5	%	81	50-200	89	50-200	89	50-200	90	50-200
1,4-Difluorobenzene	%	89	50-200	92	50-200	92	50-200	92	50-200
1,4-Dichlorobenzene-D4	%	69	50-200	80	50-200	78	50-200	83	50-200
Toluene-D8	%	116	71-125	109	71-125	109	71-125	106	71-125
p-Bromofluorobenzene	%	88	68-124	86	68-124	84	68-124	84	68-124
1,2-Dichloroethane-D4	%	78	61-136	80	61-136	80	61-136	78	61-136

NA = Not Applicable ND = Not Detected

Client ID		WO71103EJMW19FB							
Job No	Lab ID	A03-6668	A3661205						
Sample Date		07/11/2003							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	25	NA		NA		NA	
Benzene	UG/L	ND	5.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	5.0	NA		NA		NA	
Bromoform	UG/L	ND	5.0	NA		NA		NA	
Bromomethane	UG/L	ND	5.0	NA		NA		NA	
2-Butanone	UG/L	ND	25	NA		NA		NA	
Carbon Disulfide	UG/L	ND	5.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	5.0	NA		NA		NA	
Chloromethane	UG/L	ND	5.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	5.0	NA		NA		NA	
Chloroethane	UG/L	ND	5.0	NA		NA		NA	
Cyclohexane	UG/L	ND	5.0	NA		NA		NA	
Chloroform	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	5.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	5.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	5.0	NA		NA		NA	
2-Hexanone	UG/L	ND	25	NA		NA		NA	
Isopropylbenzene	UG/L	ND	5.0	NA		NA		NA	
Methyl acetate	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	ND	5.0	NA		NA		NA	
Methyl tert butyl ether	UG/L	ND	5.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	25	NA		NA		NA	
Methylcyclohexane	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	5.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	5.0	NA		NA		NA	
Toluene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		WO71103EJMW19TB							
Job No	Lab ID	A03-6668	A3661205						
Sample Date		07/11/2003							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	NA		NA		NA	
Trichloroethene	UG/L	ND	5.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	5.0	NA		NA		NA	
Total Xylenes	UG/L	ND	15	NA		NA		NA	
n-Propylbenzene	UG/L	ND	5.0	NA		NA		NA	
p-Cymene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/L	ND	5.0	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/L	ND	5.0	NA		NA		NA	
n-Butylbenzene	UG/L	ND	5.0	NA		NA		NA	
sec-Butylbenzene	UG/L	ND	5.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	93	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	92	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	80	50-200	NA		NA		NA	
Toluene-D8	%	97	77-122	NA		NA		NA	
p-Bromofluorobenzene	%	90	74-120	NA		NA		NA	
1,2-Dichloroethane-D4	%	99	73-136	NA		NA		NA	

11\32

NA = Not Applicable ND = Not Detected

Chronology and QC Summary Package

Client ID		VBLK92							
Job No	Lab ID	A03-6668	A3666801						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	NA		NA		NA	
Benzene	UG/KG	ND	5	NA		NA		NA	
Bromodichloromethane	UG/KG	ND	5	NA		NA		NA	
Bromoform	UG/KG	ND	5	NA		NA		NA	
Bromomethane	UG/KG	ND	5	NA		NA		NA	
2-Butanone	UG/KG	ND	25	NA		NA		NA	
Carbon Disulfide	UG/KG	ND	5	NA		NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	NA		NA		NA	
Chloromethane	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	ND	5	NA		NA		NA	
Chloroethane	UG/KG	ND	5	NA		NA		NA	
Cyclohexane	UG/KG	ND	5	NA		NA		NA	
Chloroform	UG/KG	ND	5	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	NA		NA		NA	
Dibromochloromethane	UG/KG	ND	5	NA		NA		NA	
Dichlorodifluoromethane	UG/KG	ND	5	NA		NA		NA	
1,2-Dibromoethane	UG/KG	ND	5	NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,2-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
1,2-Dichloropropane	UG/KG	ND	5	NA		NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	5	NA		NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	5	NA		NA		NA	
Ethylbenzene	UG/KG	ND	5	NA		NA		NA	
2-Hexanone	UG/KG	ND	25	NA		NA		NA	
Isopropylbenzene	UG/KG	ND	5	NA		NA		NA	
Methyl acetate	UG/KG	ND	5	NA		NA		NA	
Methylene chloride	UG/KG	ND	5	NA		NA		NA	
Methyl tert butyl ether	UG/KG	ND	5	NA		NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	25	NA		NA		NA	
Methylcyclohexane	UG/KG	ND	5	NA		NA		NA	
Styrene	UG/KG	ND	5	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	5	NA		NA		NA	
Tetrachloroethene	UG/KG	ND	5	NA		NA		NA	
Toluene	UG/KG	ND	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5	NA		NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	5	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		VBLK92							
Job No	Lab ID	A03-6668	A3666801						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	5	NA		NA		NA	
Trichloroethene	UG/KG	ND	5	NA		NA		NA	
Trichlorofluoromethane	UG/KG	ND	5	NA		NA		NA	
Vinyl chloride	UG/KG	ND	10	NA		NA		NA	
Total Xylenes	UG/KG	ND	15	NA		NA		NA	
n-Propylbenzene	UG/KG	ND	5	NA		NA		NA	
p-Cymene	UG/KG	ND	5	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
n-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
sec-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	94	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	101	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	83	50-200	NA		NA		NA	
Toluene-D8	%	106	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	81	60-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	68	61-136	NA		NA		NA	

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NA = Not Applicable ND = Not Detected

Client ID		VBLK95							
Job No	Lab ID	A03-6668	A3665803						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	25	NA		NA		NA	
Benzene	UG/L	ND	5.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	5.0	NA		NA		NA	
Bromoform	UG/L	ND	5.0	NA		NA		NA	
Bromomethane	UG/L	ND	5.0	NA		NA		NA	
2-Butanone	UG/L	ND	25	NA		NA		NA	
Carbon Disulfide	UG/L	ND	5.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	5.0	NA		NA		NA	
Chloromethane	UG/L	ND	5.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	5.0	NA		NA		NA	
Chloroethane	UG/L	ND	5.0	NA		NA		NA	
Cyclohexane	UG/L	ND	5.0	NA		NA		NA	
Chloroform	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	5.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	5.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	5.0	NA		NA		NA	
2-Hexanone	UG/L	ND	25	NA		NA		NA	
Isopropylbenzene	UG/L	ND	5.0	NA		NA		NA	
Methyl acetate	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	ND	5.0	NA		NA		NA	
Methyl tert butyl ether	UG/L	ND	5.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	25	NA		NA		NA	
Methylcyclohexane	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	5.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	5.0	NA		NA		NA	
Toluene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		VBLK95							
Job No	Lab ID	A03-6668	A3666803						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	NA		NA		NA	
Trichloroethene	UG/L	ND	5.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	5.0	NA		NA		NA	
Total Xylenes	UG/L	ND	15	NA		NA		NA	
n-Propylbenzene	UG/L	ND	5.0	NA		NA		NA	
p-Cymene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/L	ND	5.0	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/L	ND	5.0	NA		NA		NA	
n-Butylbenzene	UG/L	ND	5.0	NA		NA		NA	
sec-Butylbenzene	UG/L	ND	5.0	NA		NA		NA	
IS/SURROGATES									
Chlorobenzene-D5	%	101	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	98	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	94	50-200	NA		NA		NA	
Toluene-D8	%	93	77-122	NA		NA		NA	
p-Bromofluorobenzene	%	88	74-120	NA		NA		NA	
1,2-Dichloroethane-D4	%	100	73-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB32							
Job No	Lab ID	A03-6668	A3666802						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	25	NA		NA		NA	
Benzene	UG/KG	43	5	NA		NA		NA	
Bromodichloromethane	UG/KG	ND	5	NA		NA		NA	
Bromoform	UG/KG	ND	5	NA		NA		NA	
Bromomethane	UG/KG	ND	5	NA		NA		NA	
2-Butanone	UG/KG	ND	25	NA		NA		NA	
Carbon Disulfide	UG/KG	ND	5	NA		NA		NA	
Carbon Tetrachloride	UG/KG	ND	5	NA		NA		NA	
Chloromethane	UG/KG	ND	5	NA		NA		NA	
Chlorobenzene	UG/KG	45	5	NA		NA		NA	
Chloroethane	UG/KG	ND	5	NA		NA		NA	
Cyclohexane	UG/KG	ND	5	NA		NA		NA	
Chloroform	UG/KG	ND	5	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	NA		NA		NA	
Dibromochloromethane	UG/KG	ND	5	NA		NA		NA	
Dichlorodifluoromethane	UG/KG	ND	5	NA		NA		NA	
1,2-Dibromoethane	UG/KG	ND	5	NA		NA		NA	
1,2-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,3-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,4-Dichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,2-Dichloroethane	UG/KG	ND	5	NA		NA		NA	
1,1-Dichloroethene	UG/KG	54	5	NA		NA		NA	
cis-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
trans-1,2-Dichloroethene	UG/KG	ND	5	NA		NA		NA	
1,2-Dichloropropane	UG/KG	ND	5	NA		NA		NA	
cis-1,3-Dichloropropene	UG/KG	ND	5	NA		NA		NA	
trans-1,3-Dichloropropene	UG/KG	ND	5	NA		NA		NA	
Ethylbenzene	UG/KG	ND	5	NA		NA		NA	
2-Hexanone	UG/KG	ND	25	NA		NA		NA	
Isopropylbenzene	UG/KG	ND	5	NA		NA		NA	
Methyl acetate	UG/KG	ND	5	NA		NA		NA	
Methylene chloride	UG/KG	ND	5	NA		NA		NA	
Methyl tert butyl ether	UG/KG	ND	5	NA		NA		NA	
4-Methyl-2-pentanone	UG/KG	ND	25	NA		NA		NA	
Methylcyclohexane	UG/KG	ND	5	NA		NA		NA	
Styrene	UG/KG	ND	5	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/KG	ND	5	NA		NA		NA	
Tetrachloroethene	UG/KG	ND	5	NA		NA		NA	
Toluene	UG/KG	43	5	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/KG	ND	5	NA		NA		NA	
1,1,1-Trichloroethane	UG/KG	ND	5	NA		NA		NA	
1,1,2-Trichloroethane	UG/KG	ND	5	NA		NA		NA	

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NA = Not Applicable ND = Not Detected

Client ID		PS892							
Job No	Lab ID	#03-6668	#3666802						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/KG	ND	5	NA		NA		NA	
Trichloroethene	UG/KG	45	5	NA		NA		NA	
Trichlorofluoromethane	UG/KG	ND	5	NA		NA		NA	
Vinyl chloride	UG/KG	ND	10	NA		NA		NA	
Total Xylenes	UG/KG	ND	15	NA		NA		NA	
n-Propylbenzene	UG/KG	ND	5	NA		NA		NA	
p-Cymene	UG/KG	ND	5	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/KG	ND	5	NA		NA		NA	
n-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
sec-Butylbenzene	UG/KG	ND	5	NA		NA		NA	
15/SURROGATE(S)									
Chlorobenzene-D5	%	102	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	112	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	87	50-200	NA		NA		NA	
Toluene-D8	%	97	71-125	NA		NA		NA	
p-Bromofluorobenzene	%	76	68-124	NA		NA		NA	
1,2-Dichloroethane-D4	%	65	61-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB95							
Job No	Lab ID	A03-6668	A3666804						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	220	25	NA		NA		NA	
Benzene	UG/L	46	5.0	NA		NA		NA	
Bromodichloromethane	UG/L	47	5.0	NA		NA		NA	
Bromoform	UG/L	47	5.0	NA		NA		NA	
Bromomethane	UG/L	45	5.0	NA		NA		NA	
2-Butanone	UG/L	240	25	NA		NA		NA	
Carbon Disulfide	UG/L	50	5.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	47	5.0	NA		NA		NA	
Chloromethane	UG/L	39	5.0	NA		NA		NA	
Chlorobenzene	UG/L	46	5.0	NA		NA		NA	
Chloroethane	UG/L	45	5.0	NA		NA		NA	
Cyclohexane	UG/L	50	5.0	NA		NA		NA	
Chloroform	UG/L	47	5.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	48	5.0	NA		NA		NA	
Dibromochloromethane	UG/L	49	5.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	35	5.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	47	5.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	45	5.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	49	5.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	45	5.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	48	5.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	47	5.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	47	5.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	45	5.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	47	5.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	46	5.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	48	5.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	48	5.0	NA		NA		NA	
Ethylbenzene	UG/L	47	5.0	NA		NA		NA	
2-Hexanone	UG/L	240	25	NA		NA		NA	
Isopropylbenzene	UG/L	45	5.0	NA		NA		NA	
Methyl acetate	UG/L	49	5.0	NA		NA		NA	
Methylene chloride	UG/L	43	5.0	NA		NA		NA	
Methyl tert butyl ether	UG/L	48	5.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	250	25	NA		NA		NA	
Methylcyclohexane	UG/L	50	5.0	NA		NA		NA	
Styrene	UG/L	47	5.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	46	5.0	NA		NA		NA	
Tetrachloroethene	UG/L	46	5.0	NA		NA		NA	
Toluene	UG/L	46	5.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	44	5.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	45	5.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	47	5.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		MSB05							
Job No	Lab ID	A03-6668	A36668D4						
Sample Date									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	50	5.0	NA		NA		NA	
Trichloroethene	UG/L	47	5.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	45	5.0	NA		NA		NA	
Vinyl chloride	UG/L	44	5.0	NA		NA		NA	
Total Xylenes	UG/L	140	15	NA		NA		NA	
n-Propylbenzene	UG/L	47	5.0	NA		NA		NA	
p-Cymene	UG/L	45	5.0	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/L	47	5.0	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/L	46	5.0	NA		NA		NA	
n-Butylbenzene	UG/L	46	5.0	NA		NA		NA	
sec-Butylbenzene	UG/L	48	5.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	103	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	103	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	101	50-200	NA		NA		NA	
Toluene-D8	%	94	77-122	NA		NA		NA	
p-Bromofluorobenzene	%	92	74-120	NA		NA		NA	
1,2-Dichloroethane-D4	%	91	73-136	NA		NA		NA	

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NA = Not Applicable ND = Not Detected

Client Sample ID: VBLK92 NSB92
Lab Sample ID: A3666801 A3666802

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
BERG - SOIL METHOD 8260 - ICL VOAS + STA					
1,1-Dichloroethene	UG/KG	54.1	50.0	108	65-146
Trichloroethene	UG/KG	44.6	50.0	89	74-127
Benzene	UG/KG	42.6	50.0	85	74-128
Toluene	UG/KG	43.1	50.0	86	74-123
Chlorobenzene	UG/KG	44.9	50.0	90	76-124

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: VBLK95 MSB95
Lab Sample ID: A3666803 A3666804

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	% Recovery Blank Spike	QC LIMITS
BER6 -W- METH 8260 - TCL VOLATILE ORGANI					
1,1-Dichloroethene	UG/L	47.0	50.0	94	66-142
Trichloroethene	UG/L	47.0	50.0	94	77-123
Benzene	UG/L	46.0	50.0	92	77-123
Toluene	UG/L	45.5	50.0	91	74-122
Chlorobenzene	UG/L	45.6	50.0	91	77-121

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

BERG - SOIL METHOD 8260 - TCL VOAS + STARS

Client Sample ID Job No & Lab Sample ID	S070903EJMW17-20 A03-6668 A3661201	S071003EJMW16-18 A03-6668 A3661202	S071103EJMW19 12-14 A03-6668 A3661204	S071103EJMW19 12-14 A03-6668 A3661204FD	W071103EJMW19FB A03-6668 A3661205
Sample Date	07/09/2003 17:00	07/10/2003 09:00	07/11/2003 10:00	07/11/2003 10:00	
Received Date	07/11/2003 15:30	07/11/2003 15:30	07/11/2003 15:30	07/11/2003 15:30	
Extraction Date					
Analysis Date	07/15/2003 16:18	07/15/2003 16:48	07/15/2003 17:18	07/15/2003 17:48	
Extraction HT Met?	-	-	-	-	NA
Analytical HT Met?	YES	YES	YES	YES	
Sample Matrix	SOIL LOW	SOIL LOW	SOIL LOW	SOIL LOW	
Dilution Factor	1.0	1.0	1.0	1.0	
Sample wt/vol	5.08 GRAMS	5.13 GRAMS	5.04 GRAMS	5.0 GRAMS	
% Dry	91.75	91.44	89.70	85.51	

BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS

Client Sample ID Job No & Lab Sample ID	S070903EJMW17-20 A03-6668 A3661201	S071003EJMW16-18 A03-6668 A3661202	S071103EJMW19 12-14 A03-6668 A3661204	S071103EJMW19 12-14 A03-6668 A3661204FD	W071103EJMW19FB A03-6668 A3661205
Sample Date					07/11/2003 11:15
Received Date					07/11/2003 15:30
Extraction Date					
Analysis Date					07/17/2003 18:33
Extraction HT Met?	NA	NA	NA	NA	-
Analytical HT Met?					YES
Sample Matrix					WATER
Dilution Factor					1.0
Sample wt/vol					0.005 LITERS
% Dry					

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BERG - SOIL METHOD 8260 - TCL VOAS + STARS

Client Sample ID Job No & Lab Sample ID	MSB92 A03-6668 A3666802	MSB95 A03-6668 A3666804			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/15/2003 12:11				
Extraction HT Met?	-	NA			
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS

Client Sample ID Job No & Lab Sample ID	MSB92 A03-6668 A3666802	MSB95 A03-6668 A3666804			
Sample Date					
Received Date					
Extraction Date					
Analysis Date		07/17/2003 17:11			
Extraction HT Met?	NA	-			
Analytical HT Met?		-			
Sample Matrix		WATER			
Dilution Factor		1.0			
Sample wt/vol		0.005 LITERS			
% Dry					

24132

NA = Not Applicable

BERG - SOIL METHOD 8260 - TCL VOAS + STARS

Client Sample ID Job No & Lab Sample ID	VBLK92 A03-6668 A3666801	VBLK95 A03-6668 A3666803			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	07/15/2003 12:41				
Extraction HT Met?	-	NA			
Analytical HT Met?	-				
Sample Matrix	SOIL LOW				
Dilution Factor	1.0				
Sample wt/vol	5.0 GRAMS				
% Dry	100.00				

BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS

Client Sample ID Job No & Lab Sample ID	VBLK92 A03-6668 A3666801	VBLK95 A03-6668 A3666803			
Sample Date					
Received Date					
Extraction Date					
Analysis Date		07/17/2003 17:47			
Extraction HT Met?	NA	-			
Analytical HT Met?		-			
Sample Matrix		WATER			
Dilution Factor		1.0			
Sample wt/vol		0.005 LITERS			
% Dry					

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NA = Not Applicable

Chain of Custody

Chain of Custody Record

SEVERN TRENT SERVICES — **Severn Trent Laboratories, Inc.**

STL-4124 (0301)

Client: Bergman Associates	Project Manager: Edward Jones	Date:	Chain of Custody Number: 112570
Address: 200 East Federal Plaza 28 E. Main St	Telephone Number (Area Code)/Fax Number: (585) [redacted] 232-5135	Lab Number:	Page 1 of 1
City: Rochester / State: NY / Zip Code: 14614	Site Contact:	Lab Contact: Brian Fischer	
Project Name and Location (State): Groundwater VCA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 53-96.12			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): VOCs 8260	Special Instructions/ Conditions of Receipt
S070903 EJ mw17-20	07/09/03	17 06				X	X						X	
S071003 EJ mw16-18	07/10/03	0900				X	X						X	
S071003 EJ mw18 16-18	07/10/03	1400				X	X						X	ASP Deliverable
S071003 EJ mw18 16-18	07/10/03	1400				X	X						MS-VOCs	ASP-MS
S071003 EJ mw18 16-18	07/10/03	1400				X	X						MSD-VOCs	ASP MS D
S071103 EJ mw19 12-14	07/11/03	10 00				X	X						X	
S071103 EJ mw19 13-14 Dup	07/11/03	10 00				X	X						X	
W071103 EJ mw19 FB	07/11/03	11 15		X						X			X	
W071103 EJ T.B.	07/11/03			X						X			X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (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

QC Requirements (Specify): Client Specific

	Relinquished By	Date	Time	Received By	Date	Time
1	Edward Jones	07/14/03	15:30	STL	7-11-03	1535
2						
3						

Comments: 2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

2732

Appendix A

AIMS DATA VALIDATION TESTS

Run Date: 07/28/2003
by: FISCHERB

Validation Filter:
Job: A03-6668
Fraction(s): MV

Out-of-Sequence Sample and Received Date/Time	: No exceptions found
Out-of-Sequence S/R and Prep Date/Time	: No exceptions found
Out-of-Sequence S/R and TCLP Date/time	: No exceptions found
Out-of-Sequence S/R and Analysis Date/Time	: No exceptions found
Out-of-Sequence Prep and TCLP Date/time	: No exceptions found
Out-of-Sequence Prep and Analysis Date/Time	: No exceptions found
Out-of-Sequence TCLP and Analysis Date/Time	: No exceptions found
Date Entered Exceeds Current Date	: No exceptions found
Missed Analysis Holding Times	: No exceptions found
Missed Prep Holding Times	: No exceptions found
Missed TCLP Holding Times	: No exceptions found
Analysis Dates Not Entered	: No exceptions found
Calculation Dates Not Set	: No exceptions found
Invalid Calculation Date	: No exceptions found
Sample/Tests with No Results	: No exceptions found
Sample Weights and Volumes Not Entered	: No exceptions found
% Dry Weights Not Entered	: No exceptions found
pH Not Entered	: No exceptions found
Missing IIC Results	: No exceptions found
Tests Not Closed	: No exceptions found
Method Blank Hits (or errors)	: No exceptions found
Vol Anal Exceeds 12hrs after Method Blank Analysis	: No exceptions found
Vol Anal Exceeds 24hrs after Method Blank Analysis	: No exceptions found
Dilutable Sample/Test with No Dilution	: No exceptions found
Sample/Test w/No Dilution and Secondary Not Set	: No exceptions found

Diluted Base Sample, Missing Initial Wt /Organic	: No exceptions found
Dilution missing for "E" flagged Compound /Organic	: No exceptions found
TDL / Concentration with unexpected Result Flag	: No exceptions found
Unexpected Adj. Detection Limits / CRDL < IDL/MDL	: No exceptions found
Adj. PDL/IDL > Requested Detection Limit("Y" flag)	: No exceptions found
Missing or invalid method	: No exceptions found
Sample/Tests Processed Manually	: No exceptions found

Job Comments Approval : Exception list

Job	Fraction	Status	Exception (*)
A03-6668	MV	No comments	

Total Vs. Soluble Metals	: No exceptions found
Diluted Sample/Test Secondary Not Set	: No exceptions found
Field Blank Hits	: No exceptions found
Surrogate Results = 0	: No exceptions found
Surrogates with QC Limits = 0	: No exceptions found
Surrogate Results Outside of QC Limits	: No exceptions found
Surrogate Results > 0 for Diluted Samples	: No exceptions found
Missing Surrogate Code in Results	: No exceptions found
Surrogate Limits Differing from Requested Limits	: No exceptions found
Internal Standards Results = 0	: No exceptions found
Internal Standards QC Limits = 0	: No exceptions found
Internal Standards Results Outside of QC Limits	: No exceptions found
Internal Standard Results > 0 for Dilutions	: No exceptions found
Missing Internal Standards Code in Results	: No exceptions found
Internal Std Limits Differing from Requested Limit	: No exceptions found
Sample Spikes with No Results	: No exceptions found
Spike Calculation Dates Not Set	: No exceptions found
Spike Invalid Calculation Date	: No exceptions found
Sample Spikes with % Recovery = 0	: No exceptions found
Spike Samples with QC Limits = 0	: No exceptions found
Matrix Spike Results Exceeding QC Limits	: No exceptions found
Matrix Spike Duplicate Results Exceeding QC Limits	: No exceptions found

Matrix Spike Duplicate RPDs Exceeding QC Limits	: No exceptions found
Spike Limits Differing from Requested Limits	: No exceptions found
Spike Results with Missing Raw Sample Results	: No exceptions found
MS Sample/Test with No Standard	: No exceptions found
MS Continuing Std with Missing or Invalid Initial	: No exceptions found
MS Standard Calibration Date/Time Not Set	: No exceptions found
MS Standard Calculation Date Not Set	: No exceptions found
MS Invalid Calculation Date	: No exceptions found
MS Anal Date/Time Exceeds 12hrs after Calibration	: No exceptions found
MS RRF out of QC Limits	: No exceptions found
MS % RSD out of QC Limits	: No exceptions found
MS % Difference out of QC Limits	: No exceptions found
MS Test Params with missing Lvl/Lv4 Std. Params	: No exceptions found
MS Standards Not Closed	: No exceptions found
MS Tune Not Linked for Standard	: No exceptions found
MS Tune Calculation Date/Time Not Set	: No exceptions found
MS Tune Not Closed	: No exceptions found
MS Tune Invalid Calculation Date	: No exceptions found
MS Tune Injection Date/Time Not Set	: No exceptions found
MS Tune Error	: No exceptions found
MS Tune Heated Purge Not Matching its Standard	: No exceptions found
MS Analysis Date/Time Exceeds 12hrs after Tune	: No exceptions found
MS Calibration exeeds 12 hrs after Tune	: No exceptions found
MS Tune/Std/Analysis Date-Time out of Sequence	: No exceptions found
Sample/Test and Method Blank Matching Prep Batch	: No exceptions found
Sample/Test and Method Blank Matching Anal Batch	: No exceptions found
GC Sample/Test with No Standard	: No exceptions found
GC Continuing Std with Missing or Invalid Initial	: No exceptions found
GC Standard Calibration Date/Time Not Set	: No exceptions found
GC Standard Calculation Date Not Set	: No exceptions found
GC Invalid Calculation Date	: No exceptions found
GC Correlation Coefficient out of QC Limits	: No exceptions found
GC % RSD out of QC Limits	: No exceptions found

GC % Difference out of QC Limits	: No exceptions found
GC missing Ref ICC point	: No exceptions found
GC Test Params with missing Lvl/Lv4 Std. Params	: No exceptions found
GC Standards Not Closed	: No exceptions found
Processing/Not Processing data from AFCEE Project	: Test not run
Sample/Tests with No Sample Time	: Test not run
Sample/Tests with No Received Time	: Test not run
Sample/Tests with No Prep Time	: Test not run
Sample/Tests with No Analysis Time	: Test not run
Sample/Tests with No Analysis Batch Assigned	: Test not run
Sample/Tests Assigned Batches with Missing Master	: Test not run
Batches Not Closed	: Test not run
Sample/Tests with No Prep Batch Assigned	: Test not run
Sample/Tests with No Prep Batch Details	: Test not run
Sample/Tests with No Analysis Batch Details	: Test not run
Matrix Spike Amt Added <> MS Duplicate Amt Added	: Test not run

****

Result NOT Consistent with Historical/No History : Exception list

Lab Sample	Test	Current Parameter	UM	Result	Historical Results
A3661201	CTA16661	100-41-4	UG/KG	5U	Not Found
A3661201	CTA16661	100-42-5	UG/KG	5U	Not Found
A3661201	CTA16661	10061-01-5	UG/KG	5U	Not Found
A3661201	CTA16661	10061-02-6	UG/KG	5U	Not Found
A3661201	CTA16661	103-65-1	UG/KG	5U	Not Found
A3661201	CTA16661	104-51-8	UG/KG	5U	Not Found
A3661201	CTA16661	106-46-7	UG/KG	5U	Not Found
A3661201	CTA16661	106-93-4	UG/KG	5U	Not Found
A3661201	CTA16661	107-06-2	UG/KG	5U	Not Found
A3661201	CTA16661	108-10-1	UG/KG	27U	Not Found
A3661201	CTA16661	108-67-8	UG/KG	5U	Not Found
A3661201	CTA16661	108-87-2	UG/KG	5U	Not Found
A3661201	CTA16661	108-88-3	UG/KG	5U	Not Found
A3661201	CTA16661	108-90-7	UG/KG	5U	Not Found
A3661201	CTA16661	110-82-7	UG/KG	5U	Not Found
A3661201	CTA16661	120-82-1	UG/KG	5U	Not Found
A3661201	CTA16661	124-48-1	UG/KG	5U	Not Found
A3661201	CTA16661	127-18-4	UG/KG	5U	Not Found
A3661201	CTA16661	1330-20-7	UG/KG	16U	Not Found
A3661201	CTA16661	135-98-8	UG/KG	5U	Not Found
A3661201	CTA16661	156-59-2	UG/KG	20U	Not Found
A3661201	CTA16661	156-60-5	UG/KG	5U	Not Found
A3661201	CTA16661	1634-04-4	UG/KG	5U	Not Found
A3661201	CTA16661	541-73-1	UG/KG	5U	Not Found
A3661201	CTA16661	56-23-5	UG/KG	5U	Not Found
A3661201	CTA16661	591-78-6	UG/KG	27U	Not Found
A3661201	CTA16661	67-64-1	UG/KG	27U	Not Found
A3661201	CTA16661	67-66-3	UG/KG	5U	Not Found

A3661201	CTA16661	71-43-2	UG/KG	5U	Not Found
A3661201	CTA16661	71-55-6	UG/KG	5U	Not Found
A3661201	CTA16661	74-83-9	UG/KG	5U	Not Found
A3661201	CTA16661	74-87-3	UG/KG	5U	Not Found
A3661201	CTA16661	75-00-3	UG/KG	5U	Not Found
A3661201	CTA16661	75-01-4	UG/KG	11U	Not Found
A3661201	CTA16661	75-09-2	UG/KG	7	Not Found
A3661201	CTA16661	75-15-0	UG/KG	5U	Not Found
A3661201	CTA16661	75-25-2	UG/KG	5U	Not Found
A3661201	CTA16661	75-27-4	UG/KG	5U	Not Found
A3661201	CTA16661	75-34-3	UG/KG	5U	Not Found
A3661201	CTA16661	75-35-4	UG/KG	5U	Not Found
A3661201	CTA16661	75-69-4	UG/KG	5U	Not Found
A3661201	CTA16661	75-71-8	UG/KG	5U	Not Found
A3661201	CTA16661	76-13-1	UG/KG	5U	Not Found
A3661201	CTA16661	78-87-5	UG/KG	5U	Not Found
A3661201	CTA16661	78-93-3	UG/KG	27U	Not Found
A3661201	CTA16661	79-00-5	UG/KG	5U	Not Found
A3661201	CTA16661	79-01-6	UG/KG	26	Not Found
A3661201	CTA16661	79-20-9	UG/KG	5U	Not Found
A3661201	CTA16661	79-34-5	UG/KG	5U	Not Found
A3661201	CTA16661	95-50-1	UG/KG	5U	Not Found
A3661201	CTA16661	95-63-6	UG/KG	5U	Not Found
A3661201	CTA16661	96-12-8	UG/KG	5U	Not Found
A3661201	CTA16661	98-82-8	UG/KG	5U	Not Found
A3661201	CTA16661	99-87-6	UG/KG	5U	Not Found
A3661202	CTA16661	100-41-4	UG/KG	5U	Not Found
A3661202	CTA16661	100-42-5	UG/KG	5U	Not Found
A3661202	CTA16661	10061-01-5	UG/KG	5U	Not Found
A3661202	CTA16661	10061-02-6	UG/KG	5U	Not Found
A3661202	CTA16661	103-65-1	UG/KG	5U	Not Found
A3661202	CTA16661	104-51-8	UG/KG	5U	Not Found
A3661202	CTA16661	106-46-7	UG/KG	5U	Not Found
A3661202	CTA16661	106-93-4	UG/KG	5U	Not Found
A3661202	CTA16661	107-06-2	UG/KG	5U	Not Found
A3661202	CTA16661	108-10-1	UG/KG	27U	Not Found
A3661202	CTA16661	108-67-8	UG/KG	5U	Not Found
A3661202	CTA16661	108-87-2	UG/KG	5U	Not Found
A3661202	CTA16661	108-88-3	UG/KG	5U	Not Found
A3661202	CTA16661	108-90-7	UG/KG	5U	Not Found
A3661202	CTA16661	110-82-7	UG/KG	5U	Not Found
A3661202	CTA16661	120-82-1	UG/KG	5U	Not Found
A3661202	CTA16661	124-48-1	UG/KG	5U	Not Found
A3661202	CTA16661	127-18-4	UG/KG	5U	Not Found
A3661202	CTA16661	1330-20-7	UG/KG	16U	Not Found
A3661202	CTA16661	135-98-8	UG/KG	5U	Not Found
A3661202	CTA16661	156-59-2	UG/KG	5U	Not Found
A3661202	CTA16661	156-60-5	UG/KG	5U	Not Found
A3661202	CTA16661	1634-04-4	UG/KG	5U	Not Found
A3661202	CTA16661	541-73-1	UG/KG	5U	Not Found
A3661202	CTA16661	56-23-5	UG/KG	5U	Not Found
A3661202	CTA16661	591-78-6	UG/KG	27U	Not Found
A3661202	CTA16661	67-64-1	UG/KG	27U	Not Found
A3661202	CTA16661	67-66-3	UG/KG	5U	Not Found
A3661202	CTA16661	71-43-2	UG/KG	5U	Not Found
A3661202	CTA16661	71-55-6	UG/KG	5U	Not Found
A3661202	CTA16661	74-83-9	UG/KG	5U	Not Found
A3661202	CTA16661	74-87-3	UG/KG	5U	Not Found
A3661202	CTA16661	75-00-3	UG/KG	5U	Not Found
A3661202	CTA16661	75-01-4	UG/KG	11U	Not Found
A3661202	CTA16661	75-09-2	UG/KG	6	Not Found
A3661202	CTA16661	75-15-0	UG/KG	5U	Not Found
A3661202	CTA16661	75-25-2	UG/KG	5U	Not Found
A3661202	CTA16661	75-27-4	UG/KG	5U	Not Found
A3661202	CTA16661	75-34-3	UG/KG	5U	Not Found
A3661202	CTA16661	75-35-4	UG/KG	5U	Not Found

A3661202	CTA16661	75-69-4	UG/KG	5U	Not Found
A3661202	CTA16661	75-71-8	UG/KG	5U	Not Found
A3661202	CTA16661	76-13-1	UG/KG	5U	Not Found
A3661202	CTA16661	78-87-5	UG/KG	5U	Not Found
A3661202	CTA16661	78-93-3	UG/KG	27U	Not Found
A3661202	CTA16661	79-00-5	UG/KG	5U	Not Found
A3661202	CTA16661	79-01-6	UG/KG	5U	Not Found
A3661202	CTA16661	79-20-9	UG/KG	5U	Not Found
A3661202	CTA16661	79-34-5	UG/KG	5U	Not Found
A3661202	CTA16661	95-50-1	UG/KG	5U	Not Found
A3661202	CTA16661	95-63-6	UG/KG	5U	Not Found
A3661202	CTA16661	96-12-8	UG/KG	5U	Not Found
A3661202	CTA16661	98-82-8	UG/KG	5U	Not Found
A3661202	CTA16661	99-87-6	UG/KG	5U	Not Found
A3661204	CTA16661	100-41-4	UG/KG	6U	Not Found
A3661204	CTA16661	100-42-5	UG/KG	6U	Not Found
A3661204	CTA16661	10061-01-5	UG/KG	6U	Not Found
A3661204	CTA16661	10061-02-6	UG/KG	6U	Not Found
A3661204	CTA16661	103-65-1	UG/KG	6U	Not Found
A3661204	CTA16661	104-51-8	UG/KG	6U	Not Found
A3661204	CTA16661	106-46-7	UG/KG	6U	Not Found
A3661204	CTA16661	106-93-4	UG/KG	6U	Not Found
A3661204	CTA16661	107-06-2	UG/KG	6U	Not Found
A3661204	CTA16661	108-10-1	UG/KG	28U	Not Found
A3661204	CTA16661	108-67-8	UG/KG	6U	Not Found
A3661204	CTA16661	108-87-2	UG/KG	6U	Not Found
A3661204	CTA16661	108-88-3	UG/KG	6U	Not Found
A3661204	CTA16661	108-90-7	UG/KG	6U	Not Found
A3661204	CTA16661	110-82-7	UG/KG	6U	Not Found
A3661204	CTA16661	120-82-1	UG/KG	6U	Not Found
A3661204	CTA16661	124-48-1	UG/KG	6U	Not Found
A3661204	CTA16661	127-18-4	UG/KG	6U	Not Found
A3661204	CTA16661	1330-20-7	UG/KG	16U	Not Found
A3661204	CTA16661	135-98-8	UG/KG	6U	Not Found
A3661204	CTA16661	156-59-2	UG/KG	2J	Not Found
A3661204	CTA16661	156-60-5	UG/KG	6U	Not Found
A3661204	CTA16661	1634-04-4	UG/KG	6U	Not Found
A3661204	CTA16661	541-73-1	UG/KG	6U	Not Found
A3661204	CTA16661	56-23-5	UG/KG	6U	Not Found
A3661204	CTA16661	591-78-6	UG/KG	28U	Not Found
A3661204	CTA16661	67-64-1	UG/KG	28U	Not Found
A3661204	CTA16661	67-66-3	UG/KG	6U	Not Found
A3661204	CTA16661	71-43-2	UG/KG	6U	Not Found
A3661204	CTA16661	71-55-6	UG/KG	6U	Not Found
A3661204	CTA16661	74-83-9	UG/KG	6U	Not Found
A3661204	CTA16661	74-87-3	UG/KG	6U	Not Found
A3661204	CTA16661	75-00-3	UG/KG	6U	Not Found
A3661204	CTA16661	75-01-4	UG/KG	11U	Not Found
A3661204	CTA16661	75-09-2	UG/KG	7	Not Found
A3661204	CTA16661	75-15-0	UG/KG	6U	Not Found
A3661204	CTA16661	75-25-2	UG/KG	6U	Not Found
A3661204	CTA16661	75-27-4	UG/KG	6U	Not Found
A3661204	CTA16661	75-34-3	UG/KG	6U	Not Found
A3661204	CTA16661	75-35-4	UG/KG	6U	Not Found
A3661204	CTA16661	75-69-4	UG/KG	6U	Not Found
A3661204	CTA16661	75-71-8	UG/KG	6U	Not Found
A3661204	CTA16661	76-13-1	UG/KG	6U	Not Found
A3661204	CTA16661	78-87-5	UG/KG	6U	Not Found
A3661204	CTA16661	78-93-3	UG/KG	28U	Not Found
A3661204	CTA16661	79-00-5	UG/KG	6U	Not Found
A3661204	CTA16661	79-01-6	UG/KG	14	Not Found
A3661204	CTA16661	79-20-9	UG/KG	6U	Not Found
A3661204	CTA16661	79-34-5	UG/KG	6U	Not Found
A3661204	CTA16661	95-50-1	UG/KG	6U	Not Found
A3661204	CTA16661	95-63-6	UG/KG	6U	Not Found
A3661204	CTA16661	96-12-8	UG/KG	6U	Not Found

A3661204	CTA16661	98-83-8	UG/NO	6U	Not Found
A3661204	CTA16661	99-87-6	UG/KG	6U	Not Found

APPENDIX 5

APPENDIX 5

2003 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

September 5, 2003

Edward Jones
Bergmann Associates
200 lst Federal Plaza
28 E. Main St.
Rochester, NY 14614

RE: Data Usability Summary Report for Gowanda Day Habilitation site
STL-Buffalo SDG/Package Nos. A03-6612, A03-6668, A03-7044, and A03-7045

Dear Mr. Jones:

Review has been completed for the data packages generated by Severn Trent Laboratories that pertain to soil samples collected 7/09/03 through 7/11/03 and aqueous samples collected 7/22/03 and 7/23/03 at the Gowanda site. Twenty aqueous samples were processed for TCL and STARS volatiles, sixteen of them by USEPA SW846 methods, and four by the 2000 NYSDEC ASP. Five soil samples were processed for TCL and STARS volatiles, four of them by USEPA SW846 methods, and one 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 Standards (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, the data is usable as reported, or usable with minor edit or qualification as estimated.

Copies of the laboratory case narratives and sample summaries are attached to this text, and should be reviewed in conjunction with this report. Sample report forms from the data summary packages and laboratory addendums 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

The laboratory submissions include an addendum for the undiluted aqueous sample analyses. These have been incorporated into the original data package (A03-7045).

The aqueous field blank showed a variance between bottle label and custody entry. This was resolved at sample receipt

General

Aqueous accuracy and precision evaluations for the field duplicate on sample W072303EJ-19, and for matrix spikes on sample W072303EJ-17, show very good recoveries and correlations.

Soil accuracy and precision evaluations for the field duplicate on S071103EJ-MW19 12-14, and for matrix spikes on sample S071003EJ-MW18 16-18, were also acceptable, with the exception of the analyte trichloroethene. The field duplicate correlation for that compound exceeds the limit of +-2X CRDL (at 14 ppb and 47 ppb), and the matrix spike recoveries, at 52% and 46%, are below the recommended limit of 62%. The results for trichlorocthene in S071103EJ-MW19 12-14, its field duplicate, and S071003EJMW18 16-18 have been qualified estimated ("J").

TCL Volatiles by ASP CLP and SW846

Surrogate and internal standard recoveries were acceptable for all project samples. NYSDEC ASP 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 holding blanks, detected results for methylene chloride and acetone in the soil samples 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 the associated equipment blank, the detected result for chloroform in aqueous sample W072303EJ-19D is considered external contamination, and edited to nondetection ("U") at the CRDL.

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
S071003EJ-MW18 16-18	trichloroethene	380
W072203EJ-07	cis-1,2-dichloroethene	510
W072303EJ-01	cis-1,2-dichloroethene	1700
	trichloroethene	1100
W072303EJ-11	cis-1,2-dichloroethene	19000
	trichloroethene	15000
W072303EJ-12	cis-1,2-dichloroethene	3000
	trichloroethene	9100
W072303EJ-15	cis-1,2-dichloroethene	200
W072303EJ-17	cis-1,2-dichloroethene	490
	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.

Calibrations standards were evaluated for the samples reported by ASP processing, and show acceptable responses not adversely affecting reported results.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A3661201	S070903EJMW17-20	07/09/2003	17:00	07/11/2003	15:30
A3661202	S071003EJMW16-18	07/10/2003	09:00	07/11/2003	15:30
A3661204	S071103EJMW19 12-14	07/11/2003	10:00	07/11/2003	15:30
A3661204FD	S071103EJMW19 12-14	07/11/2003	10:00	07/11/2003	15:30
A3661205	W071103EJMW19FB	07/11/2003	11:15	07/11/2003	15:30

NON-CONFORMANCE SUMMARY

Job#: A03-6668

STL Project#: NY2A8896
Site Name: Bergmann Assoc. - Gowanda Dav Habilitation Center

General Comments

The enclosed data have been reported utilizing data qualifiers (O) 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

A03-6668
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

STL Buffalo internal validation report is included in this report as Appendix A.

****

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 data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Brian J. Fischer
Project Manager

7-29-03
Date

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A3661203	S071003EJMW18 16-18	07/10/2003	14:00	07/11/2003	15:30
A3661203MS	S071003EJMW18 16-18	07/10/2003	14:00	07/11/2003	15:30
A3661203SD	S071003EJMW18 16-18	07/10/2003	14:00	07/11/2003	15:30
A3661206	W071103EJTB	07/11/2003	11:15	07/11/2003	15:30

NON-CONFORMANCE SUMMARY

Job#: A03-6612

STL Project#: NY2A8896
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

A03-6612
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

QC/MS Volatile Data

The analyte Acetone was detected in the Method Blanks VBLK94, VBLK95 and VBLK98 and the 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 analyte Methylene Chloride was detected in the Method Blanks VBLK94, VBLK95 and VBLK98 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 the analyte Trichloroethene in the Matrix Spike Duplicate of sample S071003EJMW18 16-18 exceeded QC limits. The relative percent difference between the Matrix Spike and the Matrix Spike duplicate of sample S071003EJMW18 16-18 also exceeded quality control limits for the analyte Trichloroethene. The Matrix Spike Blank recoveries were compliant, so no corrective action is required.

The ASP Volatile procedure has been modified in order to accomodate the need to quantitate additional analytes not analyzed by method ASP00. Specifically the internal standard 1,4-Dichlorobenzene-D4, has been used instead of the ASP required internal standard Bromochloromethane.

All water samples were preserved to a PH less than 2.

STL Buffalo internal validation reports are included in this report as Appendix A.

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.

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Brian J. Fischer
Project Manager

7-28-03
Date

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A3704412	W072203 EJ-02	07/22/2003	14:35	07/23/2003	19:25
A3704411	W072203 EJ-03	07/22/2003	13:40	07/23/2003	19:25
A3704409	W072203 EJ-04	07/22/2003	11:30	07/23/2003	19:25
A3704413	W072203 EJ-05	07/22/2003	15:30	07/23/2003	19:25
A3704416	W072203 EJ-06	07/22/2003	19:15	07/23/2003	19:25
A3704417	W072203 EJ-07	07/22/2003	20:00	07/23/2003	19:25
A3704407	W072203 EJ-08	07/22/2003	09:00	07/23/2003	19:25
A3704410	W072203 EJ-09	07/22/2003	12:30	07/23/2003	19:25
A3704408	W072203 EJ-10	07/22/2003	10:15	07/23/2003	19:25
A3704415	W072203 EJ-13	07/22/2003	18:15	07/23/2003	19:25
A3704414	W072203 EJ-14	07/22/2003	17:15	07/23/2003	19:25
A3704404	W072303 EJ-01	07/23/2003	15:50	07/23/2003	19:25
A3704405	W072303 EJ-11	07/23/2003	16:50	07/23/2003	19:25
A3704402	W072303 EJ-15	07/23/2003	14:25	07/23/2003	19:25
A3704403	W072303 EJ-18	07/23/2003	14:45	07/23/2003	19:25
A3704401	W072303 EJ 19D	07/23/2003	09:50	07/23/2003	19:25
A3704406	W072303 FB-12	07/23/2003	17:50	07/23/2003	19:25

METHODS SUMMARY

Job#: A03-7044

STL Project#: NYZA8896
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

PARAMETER	ANALYTICAL METHOD
BERC -W- METH 8260 - TCL VOLATILE ORGANICS + STARS	SW8463 8260/SML

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#: A03-7044

STL Project#: NY2A8896
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

A03-7044
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
Sample W072303 EJ-FB-12 from the COC was labeled W072303 EJ-FB-11 on the bottle label. This sample was logged in using the COC ID (W072303 EJ-FB-12).

GC/MS Volatile Data

STL Buffalo internal validation report is included in this report as Appendix A.

****

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.

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Brian J. Fischer
Project Manager

7-31-03
Date

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A3704505	TRIP BLANK	07/23/2003		07/23/2003	19:25
A3704504	W072303 EJ-12	07/23/2003	17:45	07/23/2003	19:25
A3704502	W072303 EJ-16	07/23/2003	12:10	07/23/2003	19:25
A3704503	W072303 EJ-17	07/23/2003	13:25	07/23/2003	19:25
A3704503MS	W072303 EJ-17 MS	07/23/2003	13:25	07/23/2003	19:25
A3704503SD	W072303 EJ-17 SD	07/23/2003	13:25	07/23/2003	19:25
A3704501	W072303 EJ-19	07/23/2003	09:50	07/23/2003	19:25

METHODS SUMMARY

Job#: A03-7045

SIL Project#: NY2A8896
Site Name: Bergmann Assoc. - Gowanda Day Habilitation Center

PARAMETER	ANALYTICAL METHOD
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS	ASP00 8260/5ML

References:

ASP00 "Analytical Services Protocol", New York State Department of Conservation, June 2000.

NON-CONFORMANCE SUMMARY

Job#: A03-7045

STL Project#: NY2A8896
Site Name: Bergmann Assoc. - Gowanda Dav 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

A03-7045
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

The ASP Volatile procedure has been modified in order to accomodate the need to quantitate additional analytes not analyzed by method ASP00. Specifically the internal standard 1,4-Dichlorobenzene-D4, has been used instead of the ASP required internal standard Bromochloromethane.

All samples were preserved to a PH less than 2.

STL Buffalo internal validation report is included in this report as Appendix A.

****

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.

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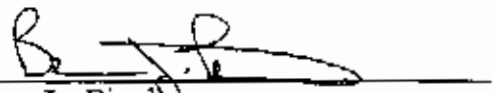

Brian J. Fischer
Project Manager

7-31-03
Date

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.

SO71003EJMW18 16-18

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661203

Sample wt/vol: 5.01 (g/mL) G Lab File ID: F1570.RR

Level: (low/med) LOW Date Samp/Recv: 07/10/2003 07/11/2003

% Moisture: not dec. 14.0 Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
67-64-1	Acetone	19	B 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	12	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	~~500~~ 380	~~E~~
156-60-5	trans-1,2-Dichloroethene	1	J
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	9	BJ
1634-04-4	Methyl tert butyl ether	12	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - S - ASP 2000 METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.

S071003EJMW18 16-18

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661203

Sample wt/vol: 5.01 (g/mL) G Lab File ID: F1570.RR

Level: (low/med) LOW Date Samp/Recv: 07/10/2003 07/11/2003

% Moisture: not dec. 14.0 Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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	110	J
75-69-4	Trichlorofluoromethane	2	J
75-01-4	Vinyl chloride	12	U
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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERC - S - ASP 2000 METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

S071003EJMW18 16-18

Lab Name: STL Buffalo Contract: _____

Job Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: A3661203

Sample wt/vol: 5.01 (g/mL) G Lab File ID: F1570.RR

Level: (low/med) LOW Date Samp/Recv: 07/10/2003 07/11/2003

% Moisture: not dec. 14.0 Date Analyzed: 07/17/2003

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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: W071103EJTB

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3661206

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1569.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2003 07/11/2003

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	10	BJ
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.
W071103EJTB

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3661206

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1569.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2003 07/11/2003

% Moisture: not dec. _____ Heated Purge: Y Date Analyzed: 07/17/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	15	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.
W071103EJTB

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3661206

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1569.RR

Level: (low/med) LOW Date Samp/Recv: 07/11/2003 07/11/2003

% Moisture: not dec. _____ Date Analyzed: 07/17/2003

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.	420-56-4	FLUOROTRIMETHYL SILANE	1.79	6	JN

Client ID		SO70903EJMW17-20		SO71003EJMW16-18		SO71103EJMW19 12-14		SO71105EJMW19 12-14	
Job No / Lab ID		A03-6668 A3661201		A03-6668 A3661202		A03-6668 A3661204		A03-6668 A3661204FD	
Sample Date		07/09/2003		07/10/2003		07/11/2003		07/11/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/KG	ND	27	ND	27	ND	28	ND	29
Benzene	UG/KG	ND	5	ND	5	ND	6	ND	6
Bromodichloromethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Bromoform	UG/KG	ND	5	ND	5	ND	6	ND	6
Bromomethane	UG/KG	ND	5	ND	5	ND	6	ND	6
2-Butanone	UG/KG	ND	27	ND	27	ND	28	ND	29
Carbon Disulfide	UG/KG	ND	5	ND	5	ND	6	ND	6
Carbon Tetrachloride	UG/KG	ND	5	ND	5	ND	6	ND	6
Chloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Chlorobenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
Chloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Cyclohexane	UG/KG	ND	5	ND	5	ND	6	ND	6
Chloroform	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2-Dibromo-3-chloropropane	UG/KG	ND	5	ND	5	ND	6	ND	6
Dibromochloromethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Dichlorodifluoromethane	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2-Dibromoethane	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,3-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,4-Dichlorobenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,1-Dichloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2-Dichloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6
1,1-Dichloroethene	UG/KG	ND	5	ND	5	ND	6	ND	6
cis-1,2-Dichloroethene	UG/KG	200	5	10	5	2 J	6	8	6
trans-1,2-Dichloroethene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2-Dichloropropane	UG/KG	ND	5	ND	5	ND	6	ND	6
cis-1,3-Dichloropropene	UG/KG	ND	5	ND	5	ND	6	ND	6
trans-1,3-Dichloropropene	UG/KG	ND	5	ND	5	ND	6	ND	6
Ethylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
2-Hexanone	UG/KG	ND	27	ND	27	ND	28	ND	29
Isopropylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
Methyl acetate	UG/KG	ND	5	ND	5	ND	6	ND	6
Methylene chloride	UG/KG	ND 2-tc	7 5	ND 6	6 5	ND 7	7 6	ND 7	7 6
Methyl tert butyl ether	UG/KG	ND	5	ND	5	ND	6	ND	6
4-Methyl-2-pentanone	UG/KG	ND	27	ND	27	ND	28	ND	29
Methylcyclohexane	UG/KG	ND	5	ND	5	ND	6	ND	6
Styrene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,1,2,2-Tetrachloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Tetrachloroethene	UG/KG	ND	5	ND	5	ND	6	ND	6
Toluene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2,4-Trichlorobenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,1,1-Trichloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6
1,1,2-Trichloroethane	UG/KG	ND	5	ND	5	ND	6	ND	6

8132

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID Job No Sample Date	Lab ID	SO70903EJMW17-20 A03-6668 07/09/2003	A3661201	SO71003EJMW16-18 A03-6668 07/10/2003	A3661202	SO71103EJMW19 12-14 #03-6668 07/11/2003	A3661204	SO71103EJMW19 12-14 #03-6668 07/11/2003	A3661204FD
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluo	UG/KG	ND	5	ND	5	ND	6	ND	6
Trichloroethene	UG/KG	26	5	ND	5	14 J	6	37 J	6
Trichlorofluoromethane	UG/KG	ND	5	ND	5	ND	6	ND	6
Vinyl chloride	UG/KG	ND	11	ND	11	ND	11	ND	12
Total Xylenes	UG/KG	ND	16	ND	16	ND	16	ND	18
n-Propylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
p-Cymene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,2,4-Trimethylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
1,3,5-Trimethylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
n-Butylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
sec-Butylbenzene	UG/KG	ND	5	ND	5	ND	6	ND	6
==IS/SURROGATE(S)==									
Chlorobenzene D5	%	81	50-200	89	50-200	89	50-200	90	50-200
1,4-Difluorobenzene	%	89	50-200	92	50-200	92	50-200	92	50-200
1,4-Dichlorobenzene-D4	%	69	50-200	80	50-200	78	50-200	83	50-200
Toluene-D8	%	116	71-125	109	71-125	109	71-125	106	71-125
p-Bromofluorobenzene	%	88	68-124	86	68-124	84	68-124	84	68-124
1,2-Dichloroethane-D4	%	78	61-136	80	61-136	80	61-136	78	61-136

9132

NA = Not Applicable ND = Not Detected

Client ID		W0711C3E.WA19FB							
Job No	Lab ID	A03-6668	A366209						
Sample Date		07/11/2003							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	25	NA		NA		NA	
Benzene	UG/L	ND	5.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	5.0	NA		NA		NA	
Bromoform	UG/L	ND	5.0	NA		NA		NA	
Bromomethane	UG/L	ND	5.0	NA		NA		NA	
2-Butanone	UG/L	ND	25	NA		NA		NA	
Carbon Disulfide	UG/L	ND	5.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	5.0	NA		NA		NA	
Chloromethane	UG/L	ND	5.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	5.0	NA		NA		NA	
Chloroethane	UG/L	ND	5.0	NA		NA		NA	
Cyclohexane	UG/L	ND	5.0	NA		NA		NA	
Chloroform	UG/L	ND	5.0	NA		NA		NA	
1,2 Dibromo-3-chloropropane	UG/L	ND	5.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	5.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
cis-1,2 Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	5.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
trans-1,3 Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	5.0	NA		NA		NA	
2-Hexanone	UG/L	ND	25	NA		NA		NA	
Isopropylbenzene	UG/L	ND	5.0	NA		NA		NA	
Methyl acetate	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	ND	5.0	NA		NA		NA	
Methyl tert butyl ether	UG/L	ND	5.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	25	NA		NA		NA	
Methylcyclohexane	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	5.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	5.0	NA		NA		NA	
Toluene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		4C211036JM419FB							
Job No	Lab ID	AC3-6668	A3661205						
Sample Date		07/11/2003							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	NA		NA		NA	
Trichloroethene	UG/L	ND	5.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	5.0	NA		NA		NA	
Total Xylenes	UG/L	ND	15	NA		NA		NA	
m-Propylbenzene	UG/L	ND	5.0	NA		NA		NA	
p-Cymene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/L	ND	5.0	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/L	ND	5.0	NA		NA		NA	
n-Butylbenzene	UG/L	ND	5.0	NA		NA		NA	
sec-Butylbenzene	UG/L	ND	5.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	93	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	92	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	80	50-200	NA		NA		NA	
Toluene-D8	%	97	77-122	NA		NA		NA	
p-Bromofluorobenzene	%	90	74-120	NA		NA		NA	
1,2-Dichloroethane-D4	%	99	73-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

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ANALYSIS DATA SHEET

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704505

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: P1784.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.

TRIP BLANK

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704505

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F17B4.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	15	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

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

TRIP BLANK

ab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

atrix: (soil/water) WATER Lab Sample ID: A3704505

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1784.RR

evel: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

umber TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

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ANALYSIS DATA SHEET

000017A

Client No.

W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	
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	7		
156-59-2	cis-1,2-Dichloroethene	2300	E	3000
156-60-5	trans-1,2-Dichloroethene	24		
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	10	U	
1634-04-4	Methyl tert butyl ether	10	U	

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000017B

Client No.

W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

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
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	~~2400~~ 9100	E
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	22	
1330-20-7	Total Xylenes	15	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

000017C

Client No.

W072303 EJ-12 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704504RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: FI781.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: WG72303 EJ-16

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704502

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1787.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	38	
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: W072303 EJ-16

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704502

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1787.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	15	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.: W072303 EJ-16

ab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

atrix: (soil/water) WATER Lab Sample ID: A3704502

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1787.RR

vel: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

Moisture: not dec. _____ Date Analyzed: 07/29/2003

Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000023A

Client No.

W072303 EJ-17 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1780.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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	
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	~~570~~ 490	~~E~~	
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	
98-82-8	Isopropylbenzene	5	U	
79-20-9	Methyl acetate	10	U	
75-09-2	Methylene chloride	10	U	
1634 04-4	Methyl tert butyl ether	10	U	

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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

000023B

Client No.

W072303 EJ-17 RI

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1730.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	350	E 320
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	4	J
1330-20-7	Total Xylenes	15	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

000023 C

Client No.

W072303 EJ-17 R1

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704503RI

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1780.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

BERGMANN ASSOCIATES, INC.
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BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.

W072303 ET-19

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704501

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1786.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	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
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	3	J
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	10	U
1634-04-4	Methyl tert butyl ether	10	U

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - COWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
ANALYSIS DATA SHEET

Client No.: W072303 EJ-19

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704501

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: F1786.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 07/29/2003

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) 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	7	
75-69-4	Trichlorofluoromethane	5	U
75-01-4	Vinyl chloride	5	U
1330-20-7	Total Xylenes	15	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

BERGMANN ASSOCIATES, INC.
BERGMANN ASSOC. - GOWANDA DAY HABILITATION CENTER
BERG - W - EPA ASP00-METHOD 8260 VOLATILES + STARS
TENTATIVELY IDENTIFIED COMPOUNDS

Client No.

W072303 EJ-19

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: A3704501

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: FI786.RR

Level: (low/med) LOW Date Samp/Recv: 07/23/2003 07/23/2003

% Moisture: not dec. _____ Date Analyzed: 07/29/2003

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/L

CAS NO.	Compound Name	RT	Est. Conc.	Q

Client ID		W072203 EJ-02		W072203 EJ-03		W072203 EJ-04		W072203 EJ-05	
Job No	Lab ID	A03-7044	A3704412	A03-7044	A3704411	A03-7044	A3704409	A03-7044	A3704413
Sample Date		07/22/2003		07/22/2003		07/22/2003		07/22/2003	

Analyte	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	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	5.0	ND	5.0	ND	5.0	ND	5.0
2-Butanone	UG/L	ND	25	ND	25	ND	25	ND	25
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	5.0	ND	5.0	ND	5.0	ND	5.0
Chlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
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	7.1	5.0	3.1 J	5.0	1.8 J	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	25	ND	25	ND	25	ND	25
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	25	ND	25	ND	25	ND	25
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

NA = Not Applicable ND = Not Detected

Client ID		W072203 EJ-02		W072203 EJ-03		W072203 EJ-04		W072203 EJ-05	
Job No / Lab ID		A03-7044 / A3704412		A03-7044 / A3704411		A03-7044 / A3704409		A03-7044 / A3704413	
Sample Date		07/22/2003		07/22/2003		07/22/2003		07/22/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Trichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	7.3	5.0
Trichlorofluoromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Vinyl chloride	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Total Xylenes	UG/L	ND	15	ND	15	ND	15	ND	15
n-Propylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
p-Cymene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2,4-Trimethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,3,5-Trimethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
n-Butylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
sec-Butylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
IS/SURROGATE(S)									
Chlorobenzene-D5	%	72	50-200	77	50-200	86	50-200	71	50-200
1,4-Difluorobenzene	%	77	50-200	79	50-200	88	50-200	73	50-200
1,4-Dichlorobenzene-D4	%	67	50-200	68	50-200	82	50-200	63	50-200
Toluene-D8	%	102	77-122	100	77-122	95	77-122	101	77-122
p-Bromofluorobenzene	%	90	74-120	90	74-120	87	74-120	90	74-120
1,2-Dichloroethane-D4	%	100	73-136	100	73-136	102	73-136	104	73-136

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 07/31/2003
Time: 15:27:55

Bergmann Assoc. - Gowanda Day Habilitation Center
SW8463 DELIVERABLES
BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS

Rept: AN0326

Client ID		WO72203 EJ-06		WO72203 EJ-07		WO72203 EJ-07DL		WO72203 EJ-08	
Job No / Lab ID		A03-7044 A3704416		A03-7044 A3704417		A03-7044 A3704417DL		A03-7044 A3704407	
Sample Date		07/22/2003		07/22/2003		07/22/2003		07/22/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	50	ND	50	ND	100	ND	25
Benzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
Bromodichloromethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Bromoform	UG/L	ND	10	ND	10	ND	20	ND	5.0
Bromomethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
2-Butanone	UG/L	ND	50	ND	50	ND	100	ND	25
Carbon Disulfide	UG/L	ND	10	ND	10	ND	20	ND	5.0
Carbon Tetrachloride	UG/L	ND	10	ND	10	ND	20	ND	5.0
Chloromethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Chlorobenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
Chloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Cyclohexane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Chloroform	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2-Dibromo-3-chloropropane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Dibromochloromethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Dichlorodifluoromethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2-Dibromoethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2-Dichlorobenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,3-Dichlorobenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,4-Dichlorobenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,1-Dichloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2-Dichloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,1-Dichloroethene	UG/L	ND	10	ND	10	ND	20	ND	5.0
cis-1,2-Dichloroethene	UG/L	330	10	~~470 E~~ → 510	10	~~510 D~~	20	ND	5.0
trans-1,2-Dichloroethene	UG/L	3.4 J	10	2.2 J	10	ND	20	ND	5.0
1,2-Dichloropropane	UG/L	ND	10	ND	10	ND	20	ND	5.0
cis-1,3-Dichloropropene	UG/L	ND	10	ND	10	ND	20	ND	5.0
trans-1,3-Dichloropropene	UG/L	ND	10	ND	10	ND	20	ND	5.0
Ethylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
2-Hexanone	UG/L	ND	50	ND	50	ND	100	ND	25
Isopropylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
Methyl acetate	UG/L	ND	10	ND	10	ND	20	ND	5.0
Methylene chloride	UG/L	ND	10	ND	10	ND	20	ND	5.0
Methyl tert butyl ether	UG/L	ND	10	ND	10	ND	20	ND	5.0
4-Methyl-2-pentanone	UG/L	ND	50	ND	50	ND	100	ND	25
Methylcyclohexane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Styrene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,1,2,2-Tetrachloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Tetrachloroethene	UG/L	ND	10	ND	10	ND	20	ND	5.0
Toluene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2,4 Trichlorobenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,1,1 Trichloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,1,2-Trichloroethane	UG/L	ND	10	ND	10	ND	20	ND	5.0

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NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		WC72203 EJ-06		WD72203 EJ-07		WD72203 EJ-07DL		WD72203 EJ-08	
Job No	Lab ID	A03-7044	A3704416	A03-7044	A3704417	A03-7044	A3704417DL	A03-7044	A3704407
Sample Date		07/22/2003		07/22/2003		07/22/2003		07/22/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	10	ND	10	ND	20	ND	5.0
Trichloroethene	UG/L	ND	10	18	10	22 D	20	ND	5.0
Trichlorofluoromethane	UG/L	ND	10	ND	10	ND	20	ND	5.0
Vinyl chloride	UG/L	ND	10	ND	10	ND	20	ND	5.0
Total Xylenes	UG/L	ND	30	ND	30	ND	60	ND	15
n-Propylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
p-Cymene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,2,4-Trimethylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
1,3,5-Trimethylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
n-Butylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
sec-Butylbenzene	UG/L	ND	10	ND	10	ND	20	ND	5.0
IS/SURROGATE(S)									
Chlorobenzene-D5	%	92	50-200	65	50-200	93	50-200	87	50-200
1,4-Difluorobenzene	%	92	50-200	69	50-200	93	50-200	90	50-200
1,4-Dichlorobenzene-D4	%	87	50-200	59	50-200	87	50-200	83	50-200
Toluene-D8	%	97	77-122	101	77-122	92	77-122	95	77-122
p-Bromofluorobenzene	%	90	74-120	90	74-120	90	74-120	87	74-120
1,2-Dichloroethane-D4	%	95	73-136	104	73-136	97	73-136	100	73-136

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		W072203 EJ-09		W072203 EJ-10		W072203 EJ-13		W072203 EJ-14	
Job No	Lab ID	A03-7044	A3704410	A03-7044	A3704408	A03-7044	A3704415	A03-7044	A3704414
Sample Date		07/22/2003		07/22/2003		07/22/2003		07/22/2003	
Analyte	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	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	5.0	ND	5.0	ND	5.0	ND	5.0
2-Butanone	UG/L	ND	25	ND	25	ND	25	ND	25
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	5.0	ND	5.0	ND	5.0	ND	5.0
Chlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
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	15	5.0	66	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	25	ND	25	ND	25	ND	25
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	25	ND	25	ND	25	ND	25
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-Trichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0

NA - Not Applicable ND = Not Detected

STL Buffalo

Client ID		WO72203 EJ-09		WO72203 EJ-10		WO72203 EJ-13		WO72203 EJ-14	
Job No	Lab ID	A03-7044	A3704410	A03-7044	A3704408	A03-7044	A3704413	A03-7044	A3704414
Sample Date		07/22/2003		07/22/2003		07/22/2003		07/22/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Trichlorofluoromethane	UG/L	ND	5.0	ND	5.0	16	5.0	74	5.0
Trichlorofluoromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Vinyl chloride	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Total Xylenes	UG/L	ND	15	ND	15	ND	15	ND	15
n-Propylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
p-Cymene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2,4-Trimethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,3,5-Trimethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
n-Butylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
sec-Butylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
IS/SURROGATE(S)									
Chlorobenzene D5	%	86	50-200	85	50-200	92	50-200	70	50-200
1,4-Difluorobenzene	%	87	50-200	89	50-200	92	50-200	73	50-200
1,4-Dichlorobenzene-D4	%	82	50-200	83	50-200	86	50-200	64	50-200
Toluene-D8	%	94	77-122	96	77-122	93	77-122	101	77-122
p-Bromofluorobenzene	%	87	74-120	88	74-120	90	74-120	90	74-120
1,2-Dichloroethane-D4	%	101	73-136	101	73-136	97	73-136	102	73-136

NA = Not Applicable ND = Not Detected

SL- Buffalo

Date: 07/31/2003
Time: 15:21:55

Bergmann Assoc. - Gowanda Day Habilitation Center
SW8463 DELIVERABLES
BERG -W- METH 8260 - TCL VOLATILE ORGANICS + STARS

Rept: AN0326

Client ID		WD72303 EJ-01		WD72303 EJ-01DL		WD72303 EJ-11		WD72303 EJ-11DL	
Job No / Lab ID		A03-7044	A3704404	A03-7044	A3704404DL	A03-7044	A3704405	A03-7044	A3704405DL
Sample Date		07/23/2003		07/23/2003		07/23/2003		07/23/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	25	ND	500	ND	500	ND	5000
Benzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Bromodichloromethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Bromoform	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Bromomethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
2-Butanone	UG/L	ND	25	ND	500	ND	500	ND	5000
Carbon Disulfide	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Carbon Tetrachloride	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Chloromethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Chlorobenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Chloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Cyclohexane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Chloroform	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Dibromochloromethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Dichlorodifluoromethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2-Dibromoethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2-Dichlorobenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,3-Dichlorobenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,4-Dichlorobenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,1-Dichloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2-Dichloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,1-Dichloroethene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
cis-1,2-Dichloroethene	UG/L	1800 E → 1700	5.0	1700 D	100	20000 E → 19000	100	19000 D	1000
trans-1,2-Dichloroethene	UG/L	25	5.0	ND	100	120	100	ND	1000
1,2-Dichloropropane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
cis-1,3-Dichloropropene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
trans-1,3-Dichloropropene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Ethylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
2-Hexanone	UG/L	ND	25	ND	500	ND	500	ND	5000
Isopropylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Methyl acetate	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Methylene chloride	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Methyl tert butyl ether	UG/L	ND	5.0	ND	100	ND	100	ND	1000
4-Methyl-2-pentanone	UG/L	ND	25	ND	500	ND	500	ND	5000
Methylcyclohexane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Styrene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Tetrachloroethene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Toluene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2,4-Trichlorobenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,1,1-Trichloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,1,2-Trichloroethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000

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NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		WO72303 EJ-01		WO72303 EJ-01DL		WO72303 EJ-1'		WO72303 EJ-1'DL	
Job No	Lab ID	A03-7044	A3704404	A03-7044	A3704404DL	A03-7044	A3704405	A03-7044	A3704405DL
Sample Date		07/23/2003		07/23/2003		07/23/2003		07/23/2003	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Trichloroethene	UG/L	4500 E → 1100	5.0	1100 D	100	46000 E → 15000	100	15000 D	1000
Trichlorofluoromethane	UG/L	ND	5.0	ND	100	ND	100	ND	1000
Vinyl chloride	UG/L	54	5.0	47 DJ	100	49 J	100	ND	1000
Total Xylenes	UG/L	ND	15	ND	300	ND	300	ND	3000
n-Propylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
p-Cymene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,2,4-Trimethylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
1,3,5-Trimethylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
n-Butylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
sec-Butylbenzene	UG/L	ND	5.0	ND	100	ND	100	ND	1000
IS/SURROGATE(S)									
Chlorobenzene-D5	%	90	50-200	63	50-200	88	50-200	64	50-200
1,4-Difluorobenzene	%	91	50-200	67	50-200	90	50-200	66	50-200
1,4-Dichlorobenzene-D4	%	86	50-200	57	50-200	84	50-200	57	50-200
Toluene-D8	%	95	77-122	102	77-122	95	77-122	100	77-122
p-Bromofluorobenzene	%	88	74-120	92	74-120	88	74-120	91	74-120
1,2-Dichloroethane-D4	%	101	73-136	104	73-136	100	73-136	102	73-136

NA = Not Applicable ND = Not Detected

Client ID		W072303 EJ-15		W072303 EJ-15DL		W072303 EJ-18		W072303 EJ-19D	
Job No	Lab ID	A03-7044	A3704402	A03-7044	A3704402DL	A03-7044	A3704403	A03-7044	A3704401
Sample Date		07/23/2003		07/23/2003		07/23/2003		07/23/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	25	ND	50	ND	25	ND	25
Benzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Bromodichloromethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Bromoform	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Bromomethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
2-Butanone	UG/L	ND	25	ND	50	ND	25	ND	25
Carbon Disulfide	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Carbon Tetrachloride	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Chloromethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Chlorobenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Chloroethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Cyclohexane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Chloroform	UG/L	ND	5.0	ND	10	ND	5.0	ND 1.2 J	5.0
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Dibromochloromethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Dichlorodifluoromethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,2-Dibromoethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,2-Dichlorobenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,3-Dichlorobenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,4-Dichlorobenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,1-Dichloroethane	UG/L	ND	5.0	ND	10	ND	5.0	1.4 J	5.0
1,2-Dichloroethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,1-Dichloroethene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
cis-1,2 Dichloroethene	UG/L	200	5.0	200	10	140	5.0	2.8 J	5.0
trans-1,2-Dichloroethene	UG/L	1.5 J	5.0	ND	10	ND	5.0	ND	5.0
1,2-Dichloropropane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
cis-1,3-Dichloropropene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
trans-1,3-Dichloropropene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Ethylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
2-Hexanone	UG/L	ND	25	ND	50	ND	25	ND	25
Isopropylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Methyl acetate	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Methylene chloride	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Methyl tert butyl ether	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
4-Methyl-2-pentanone	UG/L	ND	25	ND	50	ND	25	ND	25
Methylcyclohexane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Styrene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Tetrachloroethene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Toluene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,2,4-Trichlorobenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,1,1-Trichloroethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,1,2-Trichloroethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0

NA = Not Applicable ND = Not Detected

STL Buffalo

Client ID		W072303 EJ-15		W072303 EJ-15DL		W072303 EJ-18		W072303 EJ-19D	
Job No	Lab ID	A03-7044	A3704402	A03-7044	A3704402DL	A03-7044	A3704403	A03-7044	A3704401
Sample Date		07/23/2003		07/23/2003		07/23/2003		07/23/2003	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Trichloroethene	UG/L	62	5.0	56 D	10	15	5.0	7.1	5.0
Trichlorofluoromethane	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
Vinyl chloride	UG/L	ND	5.0	ND	10	3.7 J	5.0	ND	5.0
Total Xylenes	UG/L	ND	15	ND	30	ND	15	ND	15
n-Propylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
p-Cymene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,2,4-Trimethylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
1,3,5-Trimethylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
n-Butylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
sec-Butylbenzene	UG/L	ND	5.0	ND	10	ND	5.0	ND	5.0
IS/SURROGATE(S)									
Chlorobenzene D5	%	89	50-200	64	50-200	90	50-200	90	50-200
1,4 Difluorobenzene	%	92	50-200	67	50-200	92	50-200	93	50-200
1,4-Dichlorobenzene-D4	%	85	50-200	59	50-200	87	50-200	86	50-200
Toluene-D8	%	96	77-122	101	77-122	94	77-122	94	77-122
p-Bromofluorobenzene	%	88	74-120	90	74-120	86	74-120	87	74-120
1,2-Dichloroethane-D4	%	100	73-136	104	73-136	100	73-136	99	73-136

NA = Not Applicable ND = Not Detected

Client ID		MW072303 FB-12	
Job No	Lab ID	A03-7044	A3704406
Sample Date		07/23/2003	

Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	25	NA		NA		NA	
Benzene	UG/L	ND	5.0	NA		NA		NA	
Bromochloromethane	UG/L	1.6 J	5.0	NA		NA		NA	
Bromoform	UG/L	ND	5.0	NA		NA		NA	
Bromomethane	UG/L	ND	5.0	NA		NA		NA	
2-Butanone	UG/L	ND	25	NA		NA		NA	
Carbon Disulfide	UG/L	5.7	5.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	5.0	NA		NA		NA	
Chloromethane	UG/L	ND	5.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	5.0	NA		NA		NA	
Chloroethane	UG/L	ND	5.0	NA		NA		NA	
Cyclohexane	UG/L	ND	5.0	NA		NA		NA	
Chloroform	UG/L	2.8 J	5.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	5.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	5.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	5.0	NA		NA		NA	
2-Hexanone	UG/L	ND	25	NA		NA		NA	
Isopropylbenzene	UG/L	ND	5.0	NA		NA		NA	
Methyl acetate	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	ND	5.0	NA		NA		NA	
Methyl tert butyl ether	UG/L	ND	5.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	25	NA		NA		NA	
Methylcyclohexane	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	5.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	5.0	NA		NA		NA	
Toluene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

Client ID		w072303 FB-12							
Job No	Lab ID	A03-7044	A3704406						
Sample Date		07/23/2003							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-Trifluor	UG/L	ND	5.0	NA		NA		NA	
Trichloroethene	UG/L	ND	5.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	5.0	NA		NA		NA	
Total Xylenes	UG/L	ND	15	NA		NA		NA	
n-Propylbenzene	UG/L	ND	5.0	NA		NA		NA	
p-Cymene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trimethylbenzene	UG/L	ND	5.0	NA		NA		NA	
1,3,5-Trimethylbenzene	UG/L	ND	5.0	NA		NA		NA	
n-Butylbenzene	UG/L	ND	5.0	NA		NA		NA	
sec-Butylbenzene	UG/L	ND	5.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	62	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	65	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	57	50-200	NA		NA		NA	
Toluene-D8	%	100	77-122	NA		NA		NA	
p-Bromofluorobenzene	%	89	74-120	NA		NA		NA	
1,2-Dichloroethane-D4	%	101	73-136	NA		NA		NA	

NA = Not Applicable ND = Not Detected

APPENDIX 6

APPENDIX 6

Indoor Air Quality Model Worksheets (Johnson & Ettinger SG-Advanced.xls)

DATA ENTRY SHEET

SG-104

SG-ADV
Version 2.0; 02/03

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
79016	6.50E+01			Trichloroethylene

MORE

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, h_B (cm)	ENTER Thickness of soil stratum C, h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
183	198	10	198	0	0	SIL		

MORE

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
SIL	1.5	0.44	0.18	SIL	1.5	0.44	0.18	SIL	1.5	0.44	0.18

MORE

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	0.25	5

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

INTERMEDIATE CALCULATIONS SHEET SG-104

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9.46E+08	15	0.260	0.260	0.260	0.307	2.82E-09	0.798	2.25E-09	4,000	6.50E+01	2.54E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.73E+06	2.31E-04	183	8,557	4.78E-03	2.06E-01	1.75E-04	4.60E-03	0.00E+00	0.00E+00	4.60E-03	15

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
183	6.50E+01	0.10	8.33E+01	4.60E-03	4.00E+02	5.47E+196	2.83E-03	1.84E-01	1.1E-04	4.0E-02

END

RESULTS SHEET SG-104

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
8.3E-06	4.4E-03

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END

SG-164

VLOOKUP TABLES

Soil Properties Lookup Table							Bulk Density		
SCS Soil Type	K_s (cm/h)	α_1 (1/cm)	N (unitless)	M (unitless)	n (cm^3/cm^3)	θ_r (cm^3/cm^3)	Mean Grain Diameter (cm)	(g/cm^3)	θ_w (cm^3/cm^3)	SCS Soil Name
C	0.61	0.01496	1.253	0.2019	0.459	0.098	0.0092	1.43	0.215	Clay
CL	0.34	0.01581	1.416	0.2938	0.442	0.079	0.016	1.48	0.168	Clay Loam
L	0.50	0.01112	1.472	0.3207	0.399	0.061	0.020	1.59	0.148	Loam
LS	4.38	0.03475	1.746	0.4273	0.390	0.049	0.040	1.62	0.076	Loamy Sand
S	26.78	0.03524	3.177	0.6852	0.375	0.053	0.044	1.66	0.054	Sand
SC	0.47	0.03342	1.208	0.1722	0.385	0.117	0.025	1.63	0.197	Sandy Clay
SCL	0.55	0.02109	1.330	0.2481	0.384	0.063	0.029	1.63	0.146	Sandy Clay Loam
SI	1.82	0.00658	1.679	0.4044	0.489	0.050	0.0046	1.35	0.167	Silt
SIC	0.40	0.01622	1.321	0.2430	0.481	0.111	0.0039	1.38	0.216	Silty Clay
SICL	0.46	0.00839	1.521	0.3425	0.482	0.090	0.0056	1.37	0.198	Silty Clay Loam
SIL	0.76	0.00506	1.663	0.3987	0.439	0.065	0 011	1.49	0.180	Silt Loam
SL	1.60	0.02667	1.449	0.3099	0.387	0.039	0 030	1.62	0.103	Sandy Loam

SG-104

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($atm\text{-}m^3/mol$)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	131.39	1.1E-04	4.0E-02

= TCE

END

DATA ENTRY SHEET

SG-ADV
Version 2.0; 02/03

SG-102

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
79016	3.00E-01			Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Totals must add up to value of Ls (cell F24) Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
183	198	10	198	0	0	SIL		

MORE ↓

ENTER Stratum A SCS soil type Lookup Soil Parameters	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type Lookup Soil Parameters	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type Lookup Soil Parameters	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
SIL	1.5	0.44	0.18	SIL	1.5	0.44	0.18	SIL	1.5	0.44	0.18

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	0.25	5

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

INTERMEDIATE CALCULATIONS SHEET SG-102

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9.46E+08	15	0.260	0.260	0.260	0.307	2.82E-09	0.798	2.25E-09	4,000	3.00E-01	2.54E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.73E+06	2.31E-04	183	8,557	4.78E-03	2.06E-01	1.75E-04	4.60E-03	0.00E+00	0.00E+00	4.60E-03	15

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, exp(Pe^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
183	3.00E-01	0.10	8.33E+01	4.60E-03	4.00E+02	5.47E+196	2.83E-03	8.50E-04	1.1E-04	4.0E-02

END

RESULTS SHEET SG-102

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
3.8E-08	2.0E-05

MESSAGE AND ERROR SUMMARY BELOW: (DO NOT USE RESULTS IF ERRORS ARE PRESENT)

MESSAGE: Risk/HQ or risk-based soil concentration is based on a route-to-route extrapolation.

SCROLL DOWN TO "END"

END