EARTH TECH

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Letter of Transmittal

To: NYS Department of Environmental Conservation

Division of Environmental Remediation (Bureau C, 11th Floor)

625 Broadway

Albany, New York 12233

Date: 4-8-08	Earth Tech I.D. 93190
Submittal No.	
Attention: Bernard Franklin	
Subject: Final Remedial Action Construction Certification Report NYSEG Former MGP Oneonta	

WE ARE SENDING YOU:

☒ Attached ☐ Prints ☐ Under separate cover via _____ the following items:

☐ Shop Drawings ☐ Change Order ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of Letter ☐ _____

ITEM	COPIES	PARA.	DESCRIPTION
1	1		NYSEG Final Remedial Action Construction Certification Report Removal and Off-site Disposal of Coal Tar Impacted Soil on the Eastern and Western Plant Area Associated with Oneonta Former Manufactured Gas Plant Site James Georgeson Ave City of Oneonta, Otsego County, New York

THESE ARE TRANSMITTED AS CHECKED BELOW:

☒ For Approval ☐ Approved as submitted ☐ Resubmit ____ copies for approval

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☐ For review and comment ☐ _____

☐ For Bids Due _____, 20____

REMARKS:

Signed: Keith A Decker

Keith Decker, Project Manager

APR 10 2008

EARTH TECH

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NYSEG

NEW YORK STATE ELECTRIC & GAS CORPORATION

James A. Carrigg Center, 18 Link Drive, P.O. Box 5224
Binghamton, New York 13902-5224

Final Remedial Action Construction Certification Report

For Removal and Off-site Disposal of Coal Tar Impacted Soil
On The Eastern and Western Plant Area

Associated With

Oneonta
Former Manufactured Gas Plant Site
James Georgeson Avenue
City of Oneonta, Otsego County, New York

April 2008

Prepared By:
Earth Tech, Inc.
For
NYSEG Environmental Compliance
Site Investigation and Remediation

NYSEG

NEW YORK STATE ELECTRIC & GAS CORPORATION
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City of Oneonta, Otsego County, New York

April 2008

Reviewed By:

Bert W. Finch, Project Manager
NYSEG Corporation

Approved By:

Joseph Simone, PE, Program Manager
NYSEG Corporation

Approved By:

Carsten Floess, PE
Earth Tech, Inc.

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TABLES

FIGURES

APPENDICES

List of Acronyms

AS/SVE	Air Sparge/Soil Vapor Extraction
BBL	Blasland, Bouck & Lee
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene and xylenes
CAMP	Community Air Monitoring Plan
cPAHs	Carcinogenic Polycyclic Aromatic Hydrocarbons
ELAP	Environmental Laboratory Approval Programs
EPA	Eastern Plant Area
FS	Feasibility Study
GC	gas chromatograph
GCS-DN	gas chromatograph station - downwind
GCS-UP	gas chromatograph station - upwind
GPS	global positioning system
LKD	Lime Kiln Dust
MGP	manufactured gas plant
NAPL	non-aqueous phase liquid
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York state department of Health
NYSEG	New York State Electric & Gas Corporation
OSHA	Occupational Safety and Health Act or Administration
PAHs	polycyclic aromatic hydrocarbons
PID	photo ionization detector
POTW	Public Owned Treatment Works
ppb	parts per billion
PPE	personal protective equipment
ppm	parts per million
O&M	operation and maintenance
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
ROD	record of decision
STL	Severn Trent Laboratories
SVOCs	semi-volatile organic compounds
TAGM	technical and administrative guidance memorandum
TCLP	toxicity characteristic leachate procedure
TSS	Total Suspended Solids
UFPO	Underground Facility Protection Organization
VOCs	volatile organic compounds
VOA	volatile organic analysis
WPA	Western Plant Area

Executive Summary

This Final Remedial Action Construction Certification Report documents remedial activities at the Oneonta former manufactured gas plant (MGP) Site, located in the City of Oneonta, Otsego County, New York. Site activities were conducted in accordance with NYSEG's Remedial Design Work Plan for the Eastern Plant Area May 2005 and Earth Tech's Remedial Action Design and Remedial Design Work Plan for Western Plant Area June 2006 prepared in accordance with Section VII of the Order on Consent (Index Number D0-002-9309) between NYSEG and the New York State Department of Environmental Conservation (NYSDEC).

The manufactured gas plant was constructed by Oneonta Gas Light Company in 1881 and operated through the early 1950s. The above ground manufactured gas plant structures, excluding the gas house, were dismantled in 1956. The property was sold to the City of Oneonta in 1966. The former gas house was retained and used as a storage building by the City until it was demolished in 2001.

Remedial activities conducted by Sevenson Environmental Services for the removal of MGP impacted soils and structures began in October 2005 and were completed in May 2007. The remediation was conducted in two separate phases; the eastern plant area and western plant area (see Figure 5). Arcadis/ Blasland, Bouck and Lee (BBL) performed the project coordination for the eastern plant area and Earth Tech performed the project coordination for the western plant area.

During excavation activities, a Community Air Monitoring Program (CAMP) was implemented. There were no offsite exceedances of the established air emissions limits. All work was completed safely without incident.

The remedial action successfully removed the vast majority of the MGP impacts from the site. Over 70,000 tons of soil and sediments representing the contaminant source areas, including the gas holder foundations, below grade structures and piping have been removed. In addition, a permeable infiltration trench has been installed to assist in treating offsite MGP impacts.

The site improvements made as part of the re-construction of the site has added significant value to the City of Oneonta with the addition of state of the art facilities for the minor league baseball team. The outcome of the project exemplifies the success of the project and future of the site.

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C, 11th Floor
625 Broadway, Albany, New York 12233-7014
Phone: (518) 402-9662 • **FAX:** (518) 402-9679
Website: www.dec.state.ny.us

Alexander B. Grannis
Commissioner

March 18, 2008

Joseph Simone, PE, Program Manager
Site Investigation and Remediation
Environmental Compliance Team NY
NYSEG
P.O. Box 5224
James A. Carrigg Center, 18 Link Drive
Binghamton, NY 13902-5224

RE: Draft Construction Certification Report
Oneonta Former Manufactured Gas Plant Site
James Georgeson Avenue
City of Oneonta, Otsego County
Site # 4-39-001

Dear Mr. Simone:

The Department of Environmental Conservation (Department) has reviewed the referenced submittal dated February , 2008. Comments are as follows:

1. Construction Certification: edit "*general accordance*" to "substantial conformance"

2. Section 3.4.2, WPA Post Remediation Confirmation Sampling Results:
   1st paragraph, the sentence "*The results of the WPA bottom soil samples are provided in Table 1*" should be corrected to Table 2.
   2nd paragraph, the first sentence "*Five confirmation samples* " should be corrected to Thirteen, with the remaining contents of the paragraph adjusted to accurately reflect the contents of Table 2.

3. Section 4.0 Restoration: Please provide a detailed description of the source and quantity of imported fill pursuant to DER 10 Section 5.4(d). Analytical data for the backfill should be provided in electronic format.

4. Figure 5, Results of WPA Excavation Confirmation Sample, Column "Sample Identification": Phase 1A samples AREA 1A 001 BM, and AREA 1A 002 BM should be changed to OGEXBM001 and OGEXBM002 to be consistent with the map.
   Phase 1B samples OGEXBM003 and OGEXBM004 should have column "Depth Below Grade (feet)" values corrected from 8' to 16'.

With these changes, the Construction Completion Report will be approvable.

Please send the revised document both as a hard copy and electronically with the required PE certification.

Please call me at 518-402-9662 if you have any questions.

Sincerely,

Bernard Franklin

Bernard Franklin
Environmental Engineer
DER, Remedial Bureau C

cc: Bert Finch, NYSEG
John Ruspantini, NYSEG

ec: G. Laccetti/C. Bethoney - DOH

bec: G. Heitzman
B. Franklin

Construction Certification

I hereby certify, as a Professional Engineer registered in the State of New York, that the remedial action performed at the Oneonta former manufactured gas plant site during the period between October 2005 and May 2007 was performed in substantial accordance with the NYSDEC approved Remedial Design Work Plan for the Eastern Plant Area May 2005 and Remedial Action Design Work Plan for Western Plant Area June 2006 and in accordance with accepted standards of practice.

Respectfully submitted,
NYSEG

Joseph M. Simone 4/7/08

Joseph M. Simone
Registered Professional Engineer
New York License No. 073728-1

Date

1.0 INTRODUCTION

This Remedial Action Construction Certification Report certifies that the work performed at the Oneonta former manufactured gas plant site located in the City of Oneonta, Otsego County, New York was performed in accordance with the NYSEG's Remedial Design Work Plan May 2005, Earth Tech Remedial Action Design and Work Plan June 2006 and with Section VII of the Order on Consent (Index Number D0-0002-9309) between NYSEG and the NYSDEC.

Arcadis/BBL provided project coordination for the eastern plant area (EPA) remediation; Earth Tech provided project coordination for the western plant area (WPA) remediation. In this capacity, the project coordinator was responsible for oversight, documentation, and sampling to ensure that all on-site construction operations were performed by the Contractor per the requirements of the Remedial Action Design.

The following work activities were conducted as part of the Remedial Action:

- Pre-remediation sampling and analysis
- Site Set-up
- Limited demolition of on site structures within work area (WPA only)
- Construction of watertight sheet pile excavation support system
- Construction of temporary water treatment system and operation & maintenance (WPA only)
- Excavation of contaminated soils and sediment within excavation support system
- Off-site disposal of underground structures, their contents, associated piping, visible tarry waste, MGP impacted soil and sediments
- Collection of soil samples associated with the remedial action.
- Dewatering of excavation areas
- Collection of wastewater samples prior to discharge to the POTW (WPA only)
- Execution of the community air-monitoring program

The project objective was to excavate and dispose off site coal tar impacted soil and sediments within the project remediation limits that were 500 ppm or more total polycyclic aromatic hydrocarbons (PAHs) or 10 ppm or more total BTEX (benzene, toluene, ethyl benzene, and xylenes). All work activities conducted as part of the Remedial Action Design were performed to meet the project objective. Appendix A contains a photographic log of each phase of work.

1.1 Site Location and Description

The Oneonta former manufactured gas plant site is located in the western portion of the City of Oneonta, Otsego County, New York on James Georgeson Avenue (formerly known as Gas Avenue) which divides the 2-acre site (see Figure 1). The City of Oneonta uses the former WPA as facilities for Damaskchke Field, a minor league baseball stadium. The EPA is used as part of James Georgeson Avenue, David W. Brenner Road and parking for Damaskchke Field.

Bordering the site and Damaschke Field on the south, east and west is a large city-owned recreational facility, Neahwa Park. Bordering the site on the north is the Mill Race. Land use to the north, beyond the

Mill Race is both commercial and residential. Canadian Pacific railroad tracks are located along the northern bank of the Mill Race.

1.2 Site History

The manufactured gas plant was constructed by Oneonta Gas Light Company in 1881 and operated through the early 1950s. The layout of the facility during operations is shown on Figure 2. The EPA was used primarily for petroleum and tar storage tanks during the later years of the manufactured gas plant operations. On the WPA the above ground manufactured gas plant structures, excluding the gas house, were dismantled in 1956. The property was sold to the City of Oneonta in 1966. The former gas house was retained and used as a storage building by the city until it was demolished in 2001.

In 1996, as part of an interim remedial measure, NYSEG installed an air sparge/ soil vapor extraction (AS/SVE) system along the southern portions of the manufactured gas plant site to mitigate migration of the identified dissolved chemicals of concern. The AS/SVE system operation began on July 11, 1997 and ceased on July 26, 2001 to allow for a Remedial Investigation/Feasibility Study.

A detailed site history was prepared by TRC Environmental Consultants, Inc. for the investigation of the former coal gasification site in Oneonta, New York Task 1 Report Preliminary Site Evaluation, dated August 1986.

1.3 Previous Investigations and Reports

NYSEG's consultants completed the following Investigations and Reports:

February 1986	Task 1 Preliminary Site Evaluations by TRC Environmental Consultants, Inc.
August 1986	Task 1 Report – Preliminary Site Evaluations by TRC Environmental Consultants, Inc.
October 1988	Task 2 Report – Initial Field Investigations by TRC Environmental Consultants, Inc.
November 1989	Task 3 Report – Expanded Field Investigation by TRC Environmental Consultants, Inc.
February 1990	Task 4 Report – Technical Report by TRC Environmental Consultants, Inc.
January 1993	Supplemental Site Investigation by Atlantic Environmental Services, Inc.
October 1994	Conceptual Design Report Air Sparge/SVE Treatment System by Groundwater Technology
January 2002	Air Sparge/Soil Vapor Extraction Decommissioning and Retirement Completion Report by IT Corporation
May 2004	Supplemental Remedial Investigation Report by Blasland, Bouck & Lee, Inc. (BBL)
November 2004	Feasability Study Report by BBL
February 2006	Pre-Design Investigation Summary Report by BBL

All of the documents associated with these Investigation and Reports are available for public review at the following document repositories:

Huntington Memorial Library
62 Chestnut Street
Oneonta, New York 13802
Attn: Ms. Marie Bruni
(607) 432-1980
(By appointment only)

New York State Department of Environmental Conservation
Central Office, 625 Broadway 11th Floor
Albany, New York 12233-7014
Attn: Mr. Bernard Franklin
(518) 402-9662
(By appointment only)

2.0 PRE-REMEDIATION WORK ACTIVITIES

The pre-remediation activities were performed in order to prepare the site(s) for remediation construction activities and to provide waste characterization of soils prior to excavation and off-site disposal. Pre-remediation activities followed the same procedure for both the EPA and WPA.

2.1 Pre-remediation Sampling and Analysis

As part of the Remedial Action Design, in situ sampling events at the EPA and WPA of the Oneonta manufactured gas plant site were performed prior to initiation of remediation activities. These samples were collected in order to characterize soils within the proposed excavation areas for off site disposal, off site treatment, or possible re-use on site. No soil from the site was characterized as RCRA Hazardous Waste and therefore no soil was sent to a RCRA permitted facility. A letter report was prepared by Arcadis/BBL for the EPA (Pre-remediation Sampling Summary Report September 22, 2006) and a letter report was prepared by Earth Tech for the WPA (Pre-Remediation In Situ Sampling & Analysis, August 21, 2006) and submitted to NYSEG. The letter report summarizes the sampling locations, protocol, techniques, and analytical results of soil samples collected for waste characterization. See Appendix B for a copy of the letter reports and analytical results of the pre-remediation sampling.

The results of the pre-remediation analytical data for the EPA indicated that all soils were RCRA Non-Hazardous Waste and below 500 ppm PAHs. Soils that had minimal staining was sent to Seneca Meadows Landfill, Waterloo, NY a NYSDEC permitted facility. Soil that was stained and/or had an odor was sent to ESMI Fort Edward, NY a permitted thermal treatment facility.

The results of the pre-remediation analytical data for the WPA indicated that all soil were either RCRA Non-Hazardous Waste or Conditionally Exempt MGP Remediation Waste. All soil and sediments from WPA was sent to ESMI permitted facilities at Fort Edwards NY, Loudon NH and Keasbey NJ.

2.2 Site Set-up

Prior to the start of remediation activities, the site was prepared with several general site preparation activities. These activities were performed by the Contractor and/or their Subcontractors. The project coordinator [Arcadis/BBL (EPA) and Earth Tech (WPA)] ensured all activities were conducted in accordance with the contract documents. The following activities were conducted as part of the site set-up activities:

- Utility Notification – Dig Safely New York was contacted prior to any construction activities and on site utilities identified and marked out.

- Site Security – A 6-foot high temporary chain link fence was installed around the perimeter of the work site(s). A main entrance gate was constructed for each work area for delivery trucks and off-site disposal trucks. Signage was posted on the fence and a project sign was erected to notify the public of site activities.

- Local traffic control – During the EPA work, traffic on David W. Brenner Road was detoured around the east side of the Damaschke Field parking lot. Access onto James Georgeson Avenue was maintained throughout the project. During the WPA remediation a new road was constructed under a separate contract by NYSEG that took traffic to the north and east around the lay down areas and the water treatment area. The north entrance to Neahwa Park on James Georgeson Avenue remained open at all times. Trucks were not allowed to travel over the bridge on Neahwa Place (western entrance to park) due to a 12 ton weight limit.

- Mobile office trailer – For both the EPA and WPA two project trailers were mobilized to the site. Each trailer was blocked and leveled, and equipped with office supplies. Electric, telephone, potable water was supplied to each of the trailers. Two portable toilets were provided and made available to all project personnel.

- Erosion and sedimentation controls – Silt fence and hay bales were placed along the Mill Race edge on the outside of the sheetpile alignment. During Mill Race sheetpile installation and work in the Mill Race, silt barrier/curtain and oil boom were placed directly downstream of the installation area. Additional silt fence and hay bales were maintained on-site during construction activities and replaced as necessary.

- Contaminate Reduction Pad – A decontamination pad for equipment was constructed by grading to a low point for a sump construction and compacting the area, placement of sand over area and earthen berms around perimeter. The area was then lined with a 30 mil PVC liner. The liner was then covered with sand and then #2 stone. All water collected within the decontamination pad was drained to a sump and recovered. The EPA water was transferred to on-site frac tanks via a submersible pump and hose. The WPA water was transferred to the on-site waste water treatment plant (WWTP) via a submersible pump and hose. At the

completion of the project, earthen material used to construct the pad was used as backfill in the Phase 3 excavation area.

- Stockpile Management Pad – a contaminated soil management or staging pad was constructed to stage excavated material prior to loading into off-site transport trucks. The soil management pad was constructed similar to the decontamination pad. The soil management pad was located within the footprint of the MGP site. During the EPA remediation the stockpile management pad was located in the WPA footprint. During the WPA remediation, most soils were staged inside the excavation area and direct loaded. No soil samples from the stockpile management pad were collected because all materials were removed and disposed of at the permitted facility.

The site layout for the EPA and the WPA is provided in Figure 3 and Figure 4 respectively.

2.3 Demolition

During the WPA remediation it was necessary to demolish a number of structures associated with Damaschke Field in preparation for sheetpile installation and excavation activities. The structures demolished included the concession stand, locker room facility, restrooms, former air sparge/SVE building, small storage shed and bleachers. The demolition debris was segregated by material types. The demolition debris was transported off-site by Mangiardi Trucking for disposal at C&D Hakes Landfill located in Painted Post, New York.

A bullpen was removed from the work area and stored. One high mast light pole was removed during remediation and the other high mast light poles, stadium box seats, stadium dugout, grandstand, and existing northern bridge remained in place and they were not damaged during remediation or restoration activities. At the completion of construction activities one concrete light pole base along the first base line was replaced due to its close proximity to the sheeting and the permeable wall. The existing base had tilted a bit from settlement that occurred during sheetpile installation and removal.

3.0 REMEDIATION ACTIVITIES

Remediation activities were performed in accordance with design documents to remove and dispose underground structures, their contents, associated piping, visible tarry waste, and MGP impacted soil and sediments. The main objective of the project was to excavate and dispose off site coal tar impacted soil within the remediation project limits that were greater than 500 ppm total PAHs or greater than 10 ppm BTEX. As part of the Remedial Design, NYSEG and NYSDEC agreed to excavate to a predetermined depth as follows: EPA , 12 feet below ground surface (bgs); WPA Phase 1A, 8 feet bgs; WPA Phase 1B, 16 feet bgs; WPA Phase 2, 20 feet bgs; and WPA Phase 3, 20 feet bgs.

3.1 Excavation Activities

Lime kiln dust (LKD) and pelletized lime was applied as needed to wet soils during the course of excavation work. The use of LKD was addressed prior to use and approved for use by NYSDEC and NYSEG. LKD was added to wet soils utilizing super sacks and blended into soils using an excavator. The addition of

LKD was necessary to reduce the moisture content of the soil. A reduction in the moisture content allowed the soil to be handled and loaded into trailers for transport off site more efficiently. Less moisture content in the soil also prevented standing water in the trailer of the transport truck and less potential for MGP impacted water to leak from trailer during transport. A reduction in moisture content was also necessary for the soil to meet the specifications of the thermal treatment facility.

3.1.1 EPA Remediation Activities

The EPA Remedial Design Work Plan was to excavate approximate 18 cells that are 15 feet x 50 feet to a depth 12 feet bgs (see Figure 3). During the initial excavation activities the amount of groundwater infiltration led to revising the excavation approach to include the installation of temporary sheetpiling. The project was temporarily stopped to design a watertight sheetpiling excavation support system. The sheetpiling support system was installed around the perimeter of the excavation area. Steel watertight sheeting was driven to a depth of approximately 40 feet. The excavation sequence was still maintained and included excavation of contaminated soils, inspection of bottom conditions and confirmation samples were collected and analyzed . A summary of analytical results are provided on Figure 5, Table 1 and laboratory analytical reports are provided on the CD as Appendix C. Orange construction fence was placed at the bottom the excavation as a demarcation layer and the area was backfilled to within a few feet of the next excavation cell.

3.1.2 WPA Remediation Activities

Watertight sheetpiling and bracing was installed in the WPA in accordance to the certified sheetpile design contract documents. Minor variations or changes made in the field were minimal and did not significantly alter the design or the integrity of the excavation support system or the existing structures on the site.

The Contractor installed all watertight steel sheeting in pairs. Each pair of sheets had a welded interlock and the open interlock was sealed with water tight sealant. The sealant was applied to the entire length of the sheet interlock according to manufacturer's specifications.

Sheets were substantially installed to the proposed sheetpile layout and dimensions as identified in the design documents except for the following deviations:

- Phase 2 excavation area eastern sheeting line extended beyond the proposed end point at P-7 by approximately 4 feet. Inadvertently the Contractor used a surveyed off set as the end point and not the actual surveyed location for P-7. Because end point P-7 was installed further north than proposed, the northern sheeting line of cell Phase 2 and Phase 3 were also slightly altered;
- Phase 1A southern sheeting line was moved further south by approximately 8 feet or 2 pair of sheets to allow for efficient equipment access and mobility.

During the installation of tie back rods for the eastern wall of Phase 3 midway along the wall, a small amount of stained soils and NAPL in the groundwater were encountered approximately 6 feet below ground

surface. The stained soil was removed and placed inside the excavation support system of Phase 3. This soil was later disposed of during excavation and disposal of soil from Phase 3.

During remediation of the western plant area what is believed to have been a former storm sewer pipe from the plant site was identified during pre-remediation activities. The former storm sewer pipe was located across the Mill Race beyond the northern sheet boundary of Phase 1A. Per the direction of Earth Tech, the contractor broke the pipe open for inspection. Upon inspection, no MGP impacts or other materials (liquid or solid) were found in the pipe. The northern section of pipe was plugged with hydraulic cement and left in place. The southern portion of pipe leading back into the proposed sheet line was removed and disposed of off site. The remaining portion of pipe was later removed during excavation activities of Phase 1A and Phase 1B.

During sheeting and bracing installation, debris and obstructions were encountered (i.e. brick, concrete, steel pipe, and lumber). Debris and obstructions were removed by pre-excavating and spudding and staged within the sheeting system limits. This material was either processed on site with heavy equipment to meet the size specifications of the thermal treatment facility (i.e. brick, concrete) or segregated and loaded out for disposal as MGP impacted construction debris and shipped to Casie Protank or ESMI of NY. All MGP impacted construction debris (i.e. steel pipe and lumber) was placed in metal roll off containers and removed from the job site by Casie Protank and disposed of at their Vineland, NJ facility. A total of 83.92 tons of MGP impacted debris was disposed of at Casie Protank.

The Contractor performed vibration monitoring and crack monitoring on existing structures at the site. Two of the high mast light poles were monitored for plumbness through out the sheetpiling installation. Crack gauges were installed on existing cracks in the grandstand and vibration monitoring was performed at the grandstand when sheets were driven within 40 feet. No notifications were made to the Engineer regarding monitoring or potential disturbances to existing structures during sheetpile installation.

MGP impacted soil and sediment excavation was completed in four (4) phases of work respectively; Phase 1A, Phase 1B, Phase 2, and Phase 3. Excavation work for each phase was performed according to the Remedial Action Design Excavation Procedures.

Phase 1A consisted of the area in and along the Mill Race. The final excavation depth of the Phase 1A area was approximately 8 feet bgs. The NYSDEC requested that one additional confirmation sample (OGEXBM002) be collected and analyzed at the western end of the cell due to heavy contamination encountered during the excavation in this area.

Phase 1B was the western most excavation area located on site and encompassed the majority of a former 100,000 cubic foot distribution gas holder and surrounding area. The final excavation depth of Phase 1B was approximately 16 feet bgs. In addition to soil the gas holder foundation was removed and sent to one of ESMI's permitted thermal treatment facilities. During final excavation activities, Earth Tech observed a small area of a gravel lens located in the northeast quadrant of the Phase 1B. The NYSDEC confirmed no visible MGP impacts were present and confirmation samples (OGEXBM 009 and OGEXBM 010) were collected and analyzed. Bottom confirmation samples did not exceed project cleanup goals. This gravel lens could provide a preferential pathway through the silt/clay confining unit.

Phase 2 was the central cell and encompassed a former 28,000 cubic foot gas holder and a former 10,000 cubic foot gas holder in addition to the area surrounding both holders. The final excavation depth of Phase 2 was approximately 20 feet bgs. In addition to soil both former gas holder foundations and their contents were removed and A "drip pot" (a subsurface structure associated with the holder) containing tarry waste was also identified. The drip pot contents were blended with existing MGP impacted soils from the cell. The drip pot and associated steel piping was removed and placed in a roll off container from Casie Protank and disposed of at the Vineland, NJ facility. During the removal of sheeting from this area a decision was made to leave six pairs of steel sheets in place to protect the newly replaced light mast base.

Phase 3 was the eastern most area and encompasses the gas house, tar well and surrounding area. The final excavation depth of Phase 3 was approximately 20 feet deep bgs. In addition to soil the gas house foundation and tar well and its contents were sent to one of ESMI's permitted thermal treatment facilities. Remaining soils showed slight impact but had no significant staining or presents of NAPL.

A permeable wall was created along the southern portion of the west sheetpile wall and the entire length of the southern sheetpile wall. Approximately 500 cubic yards of washed, clean, round stone was placed to create a wall that was approximately 3 feet wide. Phase 1B was built from 16 feet below grade to 4 feet below grade or 12 feet high, Phase 2 was built from 20 feet below grade to 4 feet below grade or 16 feet high and Phase 3 was built from 20 feet below grade to 16 feet below grade or 4 feet high. The stone was wrapped in Mirafi 140N. The permeable wall will serve as an infiltration gallery to treat offsite MGP impacts. Figure 7 depicts the permeable wall and a profile of how wall was constructed.

A clay barrier approximately 10' wide and 10' high was constructed along the northern walls of Phase 1B, Phase 2 and Phase 3. This was constructed to create a low permeable barrier between the Mill Race and the site.

3.1.3 Off-site Purifier Waste Remediation Activities

An off-site area in the park near the playground had been identified that contained traces of purifier waste (see Figure 6). On February 22, 2007, the area approximately 30 feet x 28 feet was excavated to a depth 2.5 feet bgs. The soil was directly loaded and sent to ESMI's Edward NY permitted thermal treatment facilities. Confirmation samples were collected and analyzed. The confirmation analytical results were non-detect for total cyanide. Orange construction fence was placed at the bottom the excavation as a demarcation layer and the area was backfilled. The excavation limits and confirmation samples were documented by Global Positioning System (GPS).

3.2 Groundwater, Storm Water and Wastewater Management

3.2.1 EPA Groundwater, Storm Water and Wastewater Management

During remediation of the EPA the original design did not include the on-site treatment and discharge of groundwater or storm water. Upon the initial excavation groundwater infiltration into the excavation area became an issue. The project was temporarily stopped to design a watertight sheetpiling excavation support system. The sheetpiling support system was installed around the perimeter of the excavation area.

Water from within the open excavation was pumped to on-site frac tank(s) for storage and eventual off-site disposal at Clean Harbors of Baltimore. See Appendix D for a summary of the water transported off-site.

3.2.2 WPA Groundwater, Storm Water and Wastewater Management

The WPA remediation projects design included the installation of a 50 gallon per minute groundwater treatment plant. In order to meet the goals of the Remedial Action Design, a modular temporary water treatment system was constructed on site. Any groundwater, storm water, and wastewater generated during the duration of the project was stored and treated on site prior to discharge to the City of Oneonta, New York local POTW. The majority of water generated on site was from dewatering activities completed within the excavation support systems and groundwater infiltration. In addition, storm water run-off from contaminated areas, decontamination water and water from other miscellaneous sources were also generated.

A combination of watertight sheetpiling and dewatering activities greatly reduced and controlled the amount of groundwater and surface water run off from precipitation within the excavation areas. Any water that accumulated in work areas was pumped from work areas and treated for potential contaminants such as benzene, MGP constituents, total suspended solids (TSS), and total dissolved solids prior to off site discharge.

The modular temporary water treatment system was constructed, operated, and maintained according to the Remedial Action Design contract documents. A series of start-up effluent water samples were collected post treatment at 10,000 gallons, 25,000 gallons, and 40,000 gallons. All three start-up water samples meet the acceptance criteria of the City of Oneonta sanitary sewer. Additional effluent water samples were collected during normal operations of the treatment system for each week of the first month of operation and once per month thereafter. See Table 3 for a summary of water treatment system conformance sample results.

The initial treated water was stored until analytical results were reviewed and approved. If necessary, system changes or upgrades were implemented to maintain system performance. A total of 1,300,000 gallons of water were treated and discharged to the City of Oneonta.

The temporary water treatment system was manually operated and controlled through a series of valves, visual reading gauges, and pump controls. The Contractor maintained a daily operations log recording process variables and all O&M activities related to the treatment system.

3.3 MGP Impacted Soil, Sediment and Debris Transport and Disposal

MGP impacted soil, sediment, and debris were transported in accordance with the NYSEG Specifications for the Transportation of Solid or Liquid Materials. All loads of material transported off the job site were accompanied by a Conditionally Exempt Manufactured Gas Plant Remediation Waste Manifest or a Non-hazardous Solid Waste Manifest signed by the project coordinator (NYSEG agent) and the driver. All transporters utilized during the project maintained current NYSDEC Waste Transporter Permits (6NYCRR

Part 364). A material disposition log was prepared to document all loads of solid waste that are transported off-site and is provided in Appendix D.

Facility ID	EPA	WPA	Material Description
Seneca Meadows Waterloo NY	2523.74 tons	None	Soil - Minimal Staining
ESMI Fort Edward NY	9292.18 tons	43,698.07 tons	Soil - MGP Impacted
ESMI Loudon NH	None	5206.16 tons	Soil - MGP Impacted
ESMI Keasbey NJ	None	588.23 tons	Soil - MGP Impacted
Clean Harbors Baltimore MD	276,364 gallons	None	Waste Water
Casie Protank Vineland NJ	None	83.92 tons	Debris - wood and piping

3.3.1 EPA MGP Impacted Soil Transport and Disposal

The results of the pre-remediation analytical data for the EPA indicated that all soils were RCRA Non-Hazardous Waste and below 500 ppm PAHs. Soils that had minimal staining was sent to Seneca Meadows Landfill, Waterloo, NY a NYSDEC permitted facility. Soil that was stained and/or had an odor was sent to ESMI Fort Edward, NY a permitted thermal treatment facility. There was no MGP impacted debris (i.e., lumber and steel pipe) for the EPA.

3.3.2 WPA MGP Impacted Soil, Sediment and Debris Transport and Disposal

The results of the pre-remediation analytical data for the WPA indicated that all soil were either RCRA Non-Hazardous Waste or Conditionally Exempt MGP Remediation Waste. All soil and sediments from WPA was sent to ESMI permitted thermal treatment facilities at Fort Edwards NY, Loudon NH and Keasbey NJ. All MGP impacted debris (i.e., brick, concrete) from the WPA that meet the size specification of the treatment facility was also sent to ESMI. Any MGP impacted debris (i.e. lumber and steel pipe) from the WPA that did not meet the acceptance requirements of the treatment facility was loaded into roll off containers and sent to Casie Protank Vineland NJ for treatment and disposal.

3.4 Post Remediation Confirmation Sampling Results

All confirmation bottom samples were collected and analyzed in accordance with design documents.

STL Buffalo is a NYSDOH ELAP and CLP approved laboratory and all bottom soil sample result packages were provided as NYSDEC ASP Category B Deliverables. Earth Tech subcontracted Alpha Geoscience to conduct a validation of each Category B package and provide a Data Usability Summary Report (DUSR). Each analytical data package and its associated DUSR have been provided in an electronic format (CD) in Appendix E.

3.4.1 EPA Post Remediation Confirmation Sampling Results

In the EPA Arcadis/BBL and the onsite NYSDEC representative inspected the bottom of the excavation to confirm that no significant visible coal tar impacted soil was present. Once no significant visible coal tar impacts were identified, Arcadis/BBL collected confirmation bottom soil sample and document the location using GPS. Confirmation samples were taken every 900 square feet or on a 30 foot by 30 foot grid pattern within the excavated area. Samples were submitted to Severn Trent Laboratories (STL), Buffalo, New York for BTEX analysis by USEPA SW-8463 Method 8260 and Total PAH analysis by USEPA SW-8463 Method 8270. All samples results achieved the cleanup objectives. The results of the EPA bottom soil samples are provided in Table 1. The GPS sample locations and total results are shown in Figure 5.

3.4.2 WPA Post Remediation Confirmation Sampling Results

In the WPA Earth Tech and the onsite NYSDEC representation inspected the bottom of each excavation to confirm that no significant visible coal tar impacted soil was present. Once no significant visible coal tar impacts were identified, Earth Tech collected confirmation bottom soil sample and document the location using GPS. Confirmation bottom soil samples every 900 square feet or on a 30 foot by 30 foot grid pattern within the excavated area. The NYSDEC requested that one additional confirmation sample (OGEXBM002) be collected and analyzed at the western end of the Phase 1A cell due to heavy contamination encountered during the excavation in this area. Samples were submitted to Severn Trent Laboratories (STL), Buffalo, New York for BTEX analysis by USEPA SW-8463 Method 8260, Total PAH analysis by USEPA SW-8463 Method 8270, and Total Lead and Mercury by USEPA SW-8463 Method 6010 and Method 7471 (respectively). Four out of the 43 bottom soil samples were submitted to STL Buffalo for full Target Compound List (TCL) volatile and semi-volatile compound analysis. The results of the WPA bottom soil samples are provided in Table 2. The GPS sample locations and total results are shown in Figure 5.

Thirteen confirmation samples, OGEX-BM-003, OGEX-BM-005, OGEX-BM-010, OGEX-BM-017, OGEX-BM-018, OGEX-BM-021, OGEX-BM-022, OGEX-BM-024, OGEX-BM-039, OGEX-BM-040, OGEX-BM-041, OGEX-BM-042, and OGEX-BM-043 exceeded site cleanup goals. OGEX-BM-021, OGEX-BM-040 and OGEX-BM-041 exceeded for both Total PAHs and BTEX. OGEX-BM-005 exceeded site cleanup goals for Total PAHs only. OGEX-BM-003, OGEX-BM-010, OGEX-BM-017, OGEX-BM-018, OGEX-BM-022, OGEX-BM-024, OGEX-BM-039, OGEX-BM-042, and OGEX-BM-043 exceeded site clean up goals for BTEX only. Although these samples exceeded the site clean up goals, there was no significant soil staining or presence of free phase NAPL which would have warranted additional excavation. In all cases the negotiated excavation depths were achieved.

3.4.3 Off-site Purifier Waste Post Remediation Confirmation Sampling Results

In the off-site area in the park near the playground where traces of purifier waste had been identified Earth Tech and the onsite NYSDEC representation inspected the bottom of each excavation to confirm that no visible purifier waste was present. Once no significant visible purifier waste was identified, Earth Tech collected confirmation bottom soil sample and document the location using GPS. Samples were submitted to Severn Trent Laboratories (STL), Buffalo, New York for total cyanide USEPA SW 846 9012. The GPS sample locations and total results are shown in Figure 6.

3.5 Construction Equipment, Vehicles and Water Treatment System Decontamination

3.5.1 Equipment and Vehicle Decontamination

The tires, tracks, undercarriages, and excavation buckets of all construction equipment (excavator, wheel loaders, dozer, etc.) and tools that entered the Exclusion Zone were decontaminated at the Equipment Contamination Reduction Pad prior to entering the Support Zone. Decontamination procedures included the physical/mechanical removal of material through the use of shovels, picks, rotary air hammer, and high-pressure washing. All equipment used for remediation activities were decontaminated prior to use in restoration activities or demobilization from the site.

Decontamination waste and soils were collected and disposed of with the MGP impacted soils. Decontamination water was also collected and pumped from sump to on site treatment system or shipped off-site for disposal.

3.5.2 Water Treatment System Decontamination

Various components of the water treatment system (i.e. influent storage tanks, oil/water separator, soil and sludge storage tanks, pumps) were decontaminated prior to dismantling and removal from the site. Decontamination procedures included removal of material through use of high pressure washing, soaps/degreasers/abrasives, brushes, and squeegees.

Decontamination waste generated from cleaning water treatment system components was liquefied and maintained within the component. Decontamination waste was pumped to excavation area where it was blended with drier MGP impacted soils and loaded out for disposal at the thermal treatment system.

4.0 RESTORATION

All waste material generated during site restoration was disposed of in accordance with applicable regulations. All liners, polyethylene sheeting used to cover materials and personal protective equipment was characterized and disposed of appropriately.

4.1 EPA Restoration

The EPA excavation was filled with eleven feet of bank-run gravel from a NYSDOT source.. The fill material was placed in lifts and compacted as necessary. Then one foot of crusher-run from a quarry was placed and compacted.

4.2 WPA Restoration

Phase 1A was filled with eight feet of 4-8 inch cobbles, approximately 5,248 tons. Material provided by Seward Sand & Gravel and approved NYSDOT source. No analytical collected due to the material being of a bedrock source.

Phase 1B, Phase 2 and Phase 3

- A clay barrier approximately 10' wide and 10' high, approximately 2,482 tons, was constructed along the northern walls of Phase 1B, Phase 2 and Phase 3. Material provided by Seward Sand & Gravel. Analytical results have been provided in Appendix F. This was constructed to create a low permeable barrier between the Mill Race and the site.
- Clean soil stockpile staged from previous construction activities in the southeast corner of the park was placed at the bottom of the excavations. The clean soil was placed in lifts and compacted as necessary. Any remaining material or debris from this area was disposed of off-at ESMI of NY.
- Then bank-run gravel from Seward Sand & Gravel a NYSDOT source was used to fill the remaining excavation approximately 30,018 tons. The bank-run gravel was placed in lifts and compacted as necessary.
- A permeable wall was created along the southern portion of the west sheetpile wall and the entire length of the southern sheetpile wall. Approximately 450 tons of #1 stone was placed to create a wall that was approximately 3 feet wide. Phase 1B was built from 16 feet below grade to 4 feet below grade or 12 feet high, Phase 2 was built from 20 feet below grade to 4 feet below grade or 16 feet high and Phase 3 was built from 20 feet below grade to 16 feet below grade or 4 feet high. The stone was wrapped in Mirafi 140N. The permeable wall will serve as an infiltration gallery to treat offsite MGP impacts. Figure 7 depicts the permeable wall and a profile of how wall was constructed.
- Site was graded to allow surface water to runoff toward the Mill Race. Geotextile fabric was placed over gravel and twelve inches approximately 950 tons of crusher run from Seward Sand & Gravel was placed over the fabric.
- Geotextile fabric and 1-3 feet of armor stone approximately 670 tons was placed on the southern bank of the Mill Race.

5.0 AIR QUALITY MONITORING PROGRAM

As part of the Remedial Action Design, an Air-Quality Monitoring Program was implemented during the duration of the project. The objective of this Air-Quality Monitoring Program was to provide direct measurement of Volatile Organic Compounds (VOCs) and total suspended particulates that could potentially be released during excavation, handing, and transportation of MGP site residues at the site. The air-quality monitoring program consist of one (1) Exclusion Zone air-monitoring for evaluating construction worker health and safety; and two (2) community air-monitoring to determine the levels of VOCs and total suspended particulates at the perimeter of the Exclusion Zone.

5.1 Exclusion Zone Air-Monitoring

The air quality within the Exclusion Zone, including inside transporter's trailer and/or roll-off container, was monitored by the Contractor to ensure worker health and safety in accordance with requirements specified

in 29 CRFR 1910.120 as described in the Health And Safety Plan For Oneonta Former Manufactured Gas Plant Site. Documentation of Exclusion Zone air-monitoring is maintained by the Contractor and is not provided as part of this certification report.

5.2 Community Air Monitoring

The Community Air-Monitoring was conducted per the guidance and criteria provided in the New York State Department of Health Generic Community Air-monitoring Plan (CAMP) and the Remedial Action Design contract documents. The provisions included real-time air-monitoring for VOCs and particulates (i.e., dust) at the upwind and downwind perimeter of the Exclusion Zone. Real-time air-monitoring and speciated real-time data was used to guide appropriate actions to reduce/minimize air emissions to acceptable levels.

On a daily basis, the air monitoring equipment is calibrated for total VOCs and total Suspended Particulate. Air monitors for each parameter were set out upwind and downwind at the Exclusion Zone limits and programmed to log data continuously at 15 minute intervals. To supplement real-time VOC monitoring, upwind and downwind air samples were collected periodically in a Tedlar Bag and analyzed on a field gas chromatograph (GC) to confirm real-time concentrations.

Daily Community Air Monitoring Reports were maintained recording real-time air monitoring concentrations, site conditions, work activities, and periodic weather conditions from an on site weather station. All information was correlated to determine compliance with action levels identified in the Remedial Action Design contract document. Daily Community Air Monitoring Reports were provided on a weekly basis to the NYSDOH, NYSDEC, and NYSEG. Copies of these reports and electronic real-time data have also been provided in Appendix F.

5.2.1 Odor Monitoring Plan

The nature of manufactured gas plant site residues pose a concern regarding the generation of nuisance odors during excavation and material handling. As such, an odor control and monitoring plan was implemented as part of the project. If an odor complaint from a resident occurred they would speak with the NYSEG project coordinator or the NYSDEC on-site representative. An 800 number was also established to register an odor complaint to NYSEG. If a complaint was registered by the NYSEG customer service representative, the NYSEG customer service representative would contact NYSEG project manager. The NYSEG project manager would document the caller's concern and contact the appropriate project team members who will assess the reason for concern and apply the appropriate engineering controls. No such complaints were filed in this manner over the course of the project.

One odor complaint was received by the NYSDEC at the end of February 2007. The basis of the complaint was only provided verbally. Based on the fact that the complaint was referencing an alleged odor complaint a few months earlier there was no action to be taken.

If site personnel detected odor or a complaint is received, engineering controls would be implemented, as outlined in the Vapor Emission Response Plan from the Remedial Action Design document, to reduce odor-causing emissions. Once odors become non-discernable, normal operations would resume. This determination will be subject to the approval of the on-site NYSDEC representative. If in the opinion of NYSDEC on-site representative the concentration of the site related odors are unacceptable, the NYSDEC on-site representative would instruct the NYSEG project coordinator to implement odor control measures.

5.2.2 Real-Time Air-monitoring – Total Suspended Particulates

In conjunction with the real-time volatile emission monitoring, direct-reading monitoring equipment for particulate matter was used to collect real-time airborne particulate data on an every 15-minute basis. The instrument used for this sampling was a personal DataRAM ™ (field modified for active sampling) or the Thermo Andersen ADR-1200S Ambient Particulate Monitoring System both of which operate on the principle of light scattering. Both units respond to particles in the size range of 0.1 to 10 micrometers and in the concentration range of 0.01 to 400 mg/M^3. Particulate measurements were based on a 30-second, time-weighted average. The personal DataRAM ™ was calibrated daily with a filtered air sample. Record measurements at the upwind and downwind monitoring locations were logged every 15-minutes. Equivalent back-up real-time air-monitoring equipment was available on-site in the event of an equipment malfunction.

The New York State Department of Health Generic Community Air-monitoring Plan recommended action level of 0.15 mg/M^3 for particulate matter less than 10 micrometers in size (PM-10) above background was used to determine whether modifications to given processes were required. If the downwind particulate measurement of less than 10 micrometers in size (PM-10) is greater than 0.15 mg/M^3 above the upwind background level, or if dust is observed leaving the project area, dust suppression techniques (i.e., misting surfaces with water or covering open piles) would be implemented to reduce the generation of fugitive dust. If the action level of 0.15 mg/M^3 (above background) is exceeded, the NYSEG project manager and NYSDEC on-site representative would be notified.

The NYSEG project manager will notify the Division of Air Resources in writing within five working days in accordance with NYSDEC Technical and Administrative Guidance Memorandum (TAGM): Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites, October 1989).

On April 2, 2007 a dust exceedance occurred at one of the perimeter monitors. After further investigation the results of the exceedance could not be confirmed. Based on the investigation there appeared to be a number of contributing factors, including mist from Bio-Solve application, steam from Lime addition and dust from vehicle traffic. In compliance with the notification process the Division of Air Resources and the NYSDOH were notified in writing. A copy of the letter is provided in Appendix G.

6.0 DEVIATIONS FROM REMEDIAL DESIGN WORK PLANS

- The EPA remediation project was temporarily stopped to design a watertight sheetpiling excavation support system due to the amount of water encountered during open excavation activities. The sheetpiling support system was installed around the perimeter of the excavation area.

- The WPA a clay barrier approximately 10' wide and 10' high was constructed along the northern walls of Phase 1B, Phase 2 and Phase 3. This was constructed to create a low permeable barrier between the Mill Race and the site.

- The WPA a permeable wall was created along the southern portion of the west sheetpile wall and the entire length of the southern sheetpile wall. Approximately 500 cubic yards of washed, clean, round stone was placed to create a wall that was approximately 3 feet wide. Phase 1B was built from 16 feet below grade to 4 feet below grade or 12 feet high, Phase 2 was built from 20 feet below grade to 4 feet below grade or 16 feet high and Phase 3 was built from 20 feet below grade to 16 feet below grade or 4 feet high. The stone was wrapped in Mirafi 140N. The permeable wall will serve as an infiltration gallery to treat offsite MGP impacts. Figure 7 depicts the permeable wall and a profile of how wall was constructed.

- The WPA geotextile fabric 1-3 foot armor stone was placed on the southern bank of the Mill Race.

- An off-site area in the park near the playground had been identified that contained traces of purifier waste (see Figure 6). On February 22, 2007, the area approximately 30 feet x 28 feet was excavated to a depth 2.5 feet bgs. The soil was directly loaded and sent to ESMI's Edward NY permitted thermal treatment facilities. Confirmation samples were collected and analyzed. The confirmation analytical results were non detect for total cyanide. Orange construction fence was placed at the bottom the excavation as a demarcation layer and the area was backfilled. The excavation limits and confirmation samples were documented by Global Positioning System (GPS).

TABLES

TABLE 1

NYSEG - ONEONTA, NY
EASTERN PLANT AREA
POST EXCAVATION ANALYTICAL SUMMARY

Lab Name: STL - Buffalo
Customer: New York State Electric & Gas

Client Sample	OGEX-BM-12004		OGEX-BM-12005		OGEX-BM-12006		OGEX-BM-12007		OGEX-BM-12008		OGEX-BM-12009		OGEX-BM-12010		OGEX-BM-12011		OGEX-BM-12012	
Lab Sample	A5E60001		A5E60003		A6005101		A6005102		A6005103		A6034401		A6034402		A6034403		A6034404	
Date Sampled	12/20/2005		12/22/2005		12/29/2005		12/30/2005		1/3/2006		1/4/2006		1/6/2006		1/9/2006		1/9/2006	
METHOD 8270 - PAHs (SOIL) UG/KG																		
ACENAPHTHENE	950		360	U	1800	U	5500		120	J	350	U	67	J	96	J	370	U
ACENAPHTHYLENE	250	J	360	U	1800	U	1400	J	1800	U	350	U	31	J	1800	U	370	U
ANTHRACENE	790		360	U	1800	U	4800		1800	U	21	J	79	J	1800	U	370	U
BENZO(A)ANTHRACENE	450		360	U	180	J	2900		110	J	36	J	79	J	93	J	370	U
BENZO(B)FLUORANTHENE	540		22	J	250	J	2200		100	J	24	J	77	J	1800	U	370	U
BENZO(K)FLUORANTHENE	550		23	J	100	J	780	J	1800	U	350	U	90	J	1800	U	370	U
BENZO(GHI)PERYLENE	260	J	360	U	110	J	1600	J	100	J	24	J	43	J	1800	U	370	U
BENZO(A)PYRENE	380		360	U	110	J	2400		95	J	25	J	57	J	1800	U	370	U
CHRYSENE	400		360	U	220	J	2000		150	J	23	J	67	J	1800	U	370	U
DIBENZO(A,H)ANTHRACENE	63	J	360	U	1800	U	430	J	1800	U	350	U	350	U	1800	U	370	U
FLUORANTHENE	1700		41	J	380	J	4800		230	J	86	J	140	J	190	J	370	U
FLUORENE	680		360	U	130	J	3500		95	J	350	U	46	J	1800	U	370	U
INDENO(1,2,3-CD)PYRENE	210	J	360	U	110	J	1300	J	110	J	350	U	31	J	1800	U	370	U
2-METHYLNAPHTHALENE	490		19	J	1800	U	2700		200	J	350	U	350	U	1800	U	370	U
NAPHTHALENE	610		29	J	280	J	2500		280	J	350	U	19	J	120	J	370	U
PHENANTHRENE	2200		50	J	560	J	9100		410	J	30	J	82	J	200	J	370	U
PYRENE	1600		40	J	490	J	6500		370	J	120	J	190	J	270	J	370	U
DIBENZOFURAN	170	J	360	U	1800	U	580	J	1800	U	350	D	350	U	1800	U	370	U
TOTAL PAHS	**12293**		**224**		**2920**		**6090**		**2370**		**389**		**1098**		**969**		**0**	
METHOD 8260 - TCL VOLATILE ORGANICS (SOIL) UG/KG																		
ACETONE																	43	
BENZENE	6		5	J	85	DJ	2	J	66		5	U	5	U	80		6	U
ETHYLBENZENE	18	J	9	J	680	DJ	9		140		5	U	5	U	17		6	U
TOLUENE	2	J	2	J	500	DJ	3	J	7		5	U	5	U	35		2	J
TOTAL XYLENES	30	J	15	J	5800	D	40		160		16	U	16	U	99		17	U
BTEX	**56**		**31**		**7065**		**54**		**373**		**0**		**0**		**231**		**2**	

NOTES:
U - Non detect at or below method detection limits.
J - Estimated value and reported with a higher level of uncertainty.
D- Concentration reported from laboratory diluted sample

TABLE 1

NYSEG - ONEONTA, NY
EASTERN PLANT AREA
POST EXCAVATION ANALYTICAL SUMMARY

Lab Name: STL - Buffalo
Customer: New York State Electric & Gas

Client Sample	OGEX-BM-12013		OGEX-BM-12014		OGEX-BM-12015		OGEX-BM-14017		OGEX-SW-03018		OGEX-SW-07019		OGEX-BM-12020	
Lab Sample	A6057601		A6057602		A6057603		A6092001		A6090701		A6090702		A6092002	
Date Sampled	1/11/2006		1/12/2006		1/13/2006		1/20/2006		1/23/2006		1/23/2006		1/24/2006	
METHOD 8270 - PAHs (SOIL) UG/KG														
ACENAPHTHENE	380	J	360	U	240	J	11000		3200	J	18000		280	J
ACENAPHTHYLENE	840	J	360	U	68	J	2400	J	8900		11000		120	J
ANTHRACENE	440	J	360	U	250	J	7100		16000		16000		320	J
BENZO(A)ANTHRACENE	1100	J	360	U	220	J	4300		26000		11000		270	J
BENZO(B)FLUORANTHENE	1300	J	360	U	130	J	3200	J	26000		13000		230	J
BENZO(K)FLUORANTHENE	460	J	360	U	51	J	1100	J	7500		14000		76	J
BENZO(GHI)PERYLENE	1100	J	360	U	120	J	2200	J	9100		5900		150	J
BENZO(A)PYRENE	1400	J	360	U	140	J	3900		18000		13000		220	J
CHRYSENE	1200	J	360	U	200	J	3800		22000		9600		240	J
DIBENZO(A,H)ANTHRACENE	220	J	360	U	29	J	450	J	2700	J	1100	J	39	J
FLUORANTHENE	1700	J	360	U	400	J	9800		57000		28000		600	
FLUORENE	180	J	360	U	190	J	6600		14000		15000		220	J
INDENO(1,2,3-CD)PYRENE	840	J	360	U	77	J	1500	J	7900		4100		110	J
2-METHYLNAPHTHALENE	1800	U	360	U	63	J	5300		2200	J	820	J	81	J
NAPHTHALENE	1800	U	360	U	94	J	13000		4500	J	5100		170	J
PHENANTHRENE	760	J	360	U	840		24000		47000		41000	D	1000	
PYRENE	2400	J	360	U	690		13000		71000	J	33000	D	790	
DIBENZOFURAN	1800	U	360	U	19	J	570		3100	J	840	J	360	U
TOTAL PAHS	**14320**		**0**		**3821**		**113220**		**346100**		**240460**		**4916**	
METHOD 8260 - TCL VOLATILE ORGANICS (SOIL) UG/KG														
ACETONE									37		29	J		
BENZENE	5	U	5	U	5	U	31		3	J	8		100	
ETHYLBENZENE	1	J	5	U	24		530	D	8		120		340	
TOLUENE	5	U	5	U	5	U	20		4	J	5	J	54	
TOTAL XYLENES	16	U	16	UJ	25		1200	D	23		100		470	
BTEX	**1**		**0**		**49**		**1781**		**38**		**233**		**964**	

NOTES:
U - Non detect at or below method detection limits.
J - Estimated value and reported with a higher level of uncertainty.
D- Concentration reported from laboratory diluted sample

TABLE 2

NYSEG - ONEONTA, NY
WESTERN PLANT AREA
POST EXCAVATION ANALYTICAL SUMMARY

Lab Name: STL - Buffalo
Customer: New York State Electric & Gas

Client Sample	OGEMBM001 (a.k.a Area 1A 001 BM)		OGEXBM002 (a.k.a Area 1A 002 BM)		OGEXBM003		OGEXBM004		OGEXBM 005		OGEXBM 006		OGEXBM 007		OGEXBM 008		OGEXBM 009	
Lab Sample	A6C23101		A6C23102		A6D09201		A6D09202		A6D31901		A6D31902		A6D31903		A6D31904		A6D31905	
Date Sampled	10/16/2006		10/17/2006		11/3/2006		11/3/2006		11/8/2006		11/8/2006		11/8/2006		11/8/2006		11/8/2006	
METHOD 8270 - PAHs (SOIL) UG/KG																		
ACENAPHTHENE	85	J	280	J	22000		680		24000	B	860	B	2600	B	2000	B	26000	B
ACENAPHTHYLENE	380	U	76	J	6000		1200		170000	BD	910	B	5600	B	340	BJ	14000	B
ANTHRACENE	70	J	62	J	13000		1100		88000	D	1000		3800		1200		23000	
BENZO(A)ANTHRACENE	93	J	48	J	6300		520		39000		690		2400		680		10000	
BENZO(B)FLUORANTHENE	120	J	34	J	5000		330	J	30000		590		1900		400		8600	
BENZO(K)FLUORANTHENE	120	J	400	U	2000	U	110	J	3800	U	380	U	370	U	380	U	3400	U
BENZO(GHI)PERYLENE	52	J	20	J	2500		200	J	14000	J	350	J	880	J	190	J	3800	J
BENZO(A)PYRENE	70	J	32	J	4600		380		29000		540		1800		400		8100	
CHRYSENE	78	J	35	J	4700		400		28000		570		1700		670		7800	
DIBENZO(A,H)ANTHRACENE	380	U	400	U	580	J	45	J	4000		92	J	250	J	65	J	1100	J
FLUORANTHENE	250	J	82	J	14000		1200		97000	D	1200		4400		1400		21000	
FLUORENE	72	J	130	J	13000		1100		100000	BD	870	B	4100	B	1000	B	21000	B
INDENO(1,2,3-CD)PYRENE	41	J	400	U	1900	J	140	J	12000		270	J	750		140	J	3300	J
2-METHYLNAPHTHALENE	97	J	550		49000	D	2500		350000	BD	1300	B	16000	BD	980	B	50000	B
NAPHTHALENE	190	J	1300		73000	D	4100		640000	BD	2900	B	28000	BD	1300	U	66000	BD
PHENANTHRENE	300	J	220	J	42000	D	3400		280000	BD	3100	B	16000	BD	3800	B	63000	BD
PYRENE	240	J	110	J	17000		1500		130000	D	1800		5600		2000		27000	
DIBENZOFURAN	19	J	33	J	2700		220	J	18000		170	J	900		210	J	5500	
TOTAL PAHS	**1897**		**3012**		**277280**		**19125**	**0**	**2053000**		**17212**		**96680**		**15475**		**359200**	
METHOD 8260 - TCL VOLATILE ORGANICS (SOIL) UG/KG																		
ACETONE	15	J																
BENZENE	54		190		290		450		36	J	510		150		130	J	13	J
ETHYLBENZENE	100		270		5700		1300		290		1900		1900		760		370	
TOLUENE	ND		58	B	530		160		200		180		920		ND		100	
TOTAL XYLENES	68	J	270		6300		1100		340		1400		2600		810		470	
BTEX	**222**		**788**		**12820**		**3010**		**866**		**3990**		**5570**		**1700**		**953**	
TOTAL METALS (SOIL) MG/KG																		
LEAD, TOTAL	27.7		10.9		7.7	J	11	J	15.4		11.7		41.2		12.6		10.8	
MERCURY, TOTAL	0.027		0.021	U	0.019	U	0.021	U	0.026		0.024	U	0.023		0.025	U	0.02	

NOTES:
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TABLE 2

NYSEG - ONEONTA, NY
WESTERN PLANT AREA
POST EXCAVATION ANALYTICAL SUMMARY

Lab Name: STL - Buffalo
Customer: New York State Electric & Gas

Client Sample	OGEXBM 010		OGEXBM011		OGEXBM012		OGEXBM013		OGEXBM014		OGEXBM015		OGEXBM016		OGEXBM017		OGEXBM018	
Lab Sample	A6D31906		A6D78001		A6D78002		A6D84901		A6D84902DL		A6D84903		A6E41902		A6E41901		A7133201	
Date Sampled	11/8/2006		11/15/2006		11/15/2006		11/17/2006		11/17/2006		11/17/2006		11/30/2006		11/30/2006		2/8/2007	
METHOD 8270 - PAHs (SOIL) UG/KG																		
ACENAPHTHENE	15000	B	29000		330	J	1800	J	2000	D	420		680		210	J	2000	
ACENAPHTHYLENE	9600	B	20000		540		3700		980	D	150	J	88	J	210	J	4400	
ANTHRACENE	11000		22000		580		3500		2300	D	420		66	J	330	J	3100	
BENZO(A)ANTHRACENE	6600		14000		420		2600		1800	D	180	J	82	J	340	J	1800	
BENZO(B)FLUORANTHENE	5800		11000		350	J	2700		1400	D	170	J	84	J	250	J	1100	
BENZO(K)FLUORANTHENE	1900	U	8500	U	400	U	2000	U	770	U	390	U	26	J	87	J	340	J
BENZO(GHI)PERYLENE	3100	J	6000	J	200	J	1400	J	730	DJ	94	J	70	J	200	J	670	
BENZO(A)PYRENE	5800		10000		330	J	2300		1400	D	150	J	100	J	320	J	1300	
CHRYSENE	5400		11000		330	J	2300		1400	D	160	J	65	J	300	J	1200	
DIBENZO(A,H)ANTHRACENE	770	J	1200	J	46	J	320	J	170	DJ	390	U	410	U	42	J	160	J
FLUORANTHENE	14000		28000		770		4800		3300	D	430		140	J	710		3700	
FLUORENE	12000	B	24000		470		2900		1600	D	330	J	100	J	380	J	3300	
INDENO(1,2,3-CD)PYRENE	2400		4500	J	150	J	1000	J	540	DJ	62	J	52	J	140	J	530	
2-METHYLNAPHTHALENE	36000	BD	66000		940		8300		1200	D	680		1400		210	J	13000	D
NAPHTHALENE	64000	BD	100000	B	3600	B	14000		3400	D	1800		5900		710		21000	D
PHENANTHRENE	42000	BD	87000		1800		11000		5800	D	1200		190	J	1500		13000	D
PYRENE	19000		43000		1300		7600		4900	D	670		220	J	1100		5100	
DIBENZOFURAN	2300		3600	J	70	J	580	J	250	DJ	73	J	410	U	32	J	670	
TOTAL PAHS	**254770**		**480300**		**12226**		**70800**		**33170**		**6989**		**9263**		**7071**		**76370**	
METHOD 8260 - TCL VOLATILE ORGANICS (SOIL) UG/KG																		
ACETONE															10	J		
BENZENE	980	D	170		260		74		410		180		1100		38000	D	470	
ETHYLBENZENE	7800	D	890	B	270	B	54		450		180		270		760	DJ	3400	E
TOLUENE	2500	D	200	B	170	B	11	J	140		20		90		1800	D	3300	E
TOTAL XYLENES	8900	D	2400		700		160		1300		280		990		2400	J	8100	E
BTEX	**20180**		**3660**		**1400**		**299**		**2300**		**660**		**2450**		**42960**		**15270**	
TOTAL METALS (SOIL) MG/KG																		
LEAD, TOTAL	14.8		10.4		13.1		12.5		11.7		12.4		11.6		14.4		11.2	
MERCURY, TOTAL	0.021	U	0.044		0.021	U	0.018	U	0.022	U	0.021	U	0.023	U	0.021		0.022	U

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TABLE 2

NYSEG - ONEONTA, NY
WESTERN PLANT AREA
POST EXCAVATION ANALYTICAL SUMMARY

Lab Name: STL - Buffalo
Customer: New York State Electric & Gas

Client Sample	OGEXBM019		OGEXBM020		OGEXBM021		OGEXBM022		OGEXBM023		OGEXBM024		OGEXBM025		OGEXBM026		OGEXBM027		OGEXBM028	
Lab Sample	A7133202		A7147701		A7147702		A7170801		A7170802		A7191601		A7191602		A7197101		A7197102		A7220201	
Date Sampled	2/8/2007		2/12/2007		2/12/2007		2/21/2007		2/21/2007		2/28/2007		2/28/2007		3/2/2007		3/2/2007		3/6/2007	
METHOD 8270 - PAHs (SOIL) UG/KG																				
ACENAPHTHENE	410		400	U	13000		1100		59	J	7200		1300	J	7000		650		140	J
ACENAPHTHYLENE	530		63	J	130000	D	2500		660		29000		1900	J	14000		830		110	J
ANTHRACENE	480		39	J	47000		1700		110	J	15000		1300	J	9100		540		98	J
BENZO(A)ANTHRACENE	330	J	32	J	24000		1000		70	J	8000		860	J	4900		300	J	63	J
BENZO(B)FLUORANTHENE	200	J	400	U	15000		720		44	J	6300		650	J	4000		240	J	45	J
BENZO(K)FLUORANTHENE	80	J	400	U	4400		250	J	19	J	2100	U	2000	U	2100	U	430	U	390	U
BENZO(GHI)PERYLENE	130	J	400	U	8300		460		26	J	3300		360	J	1400	J	79	J	22	J
BENZO(A)PYRENE	240	J	21	J	17000		820		49	J	6000		640	J	3800		210	J	38	J
CHRYSENE	250	J	21	J	17000		790		53	J	5600		630	J	4000		230	J	43	J
DIBENZO(A,H)ANTHRACENE	32	J	400	U	2200	J	100	J	460	U	840	J	95	J	400	J	23	J	390	U
FLUORANTHENE	670		49	J	49000		2100		130	J	16000		1600	J	11000		570		110	J
FLUORENE	510		38	J	51000		1900		140	J	16000		1600	J	9800		580		120	J
INDENO(1,2,3-CD)PYRENE	100	J	400	U	6700		350	J	19	J	2500		48	J	1100	J	63	J	19	J
2-METHYLNAPHTHALENE	1300		160	J	280000	D	6200	BD	660	B	69000	BD	4000	B	37000	BD	2200	B	480	
NAPHTHALENE	2000		940	B	610000	BD	9300	BD	12000	BD	130000	BD	5500	B	78000	BD	5300	B	910	
PHENANTHRENE	1700		140	J	190000	D	5800		380	J	52000	D	4400		32000		1800		320	J
PYRENE	920		76	J	87000	D	2900		170	J	23000		2200		14000		760		150	J
DIBENZOFURAN	100	J	400	U	12000		430		34	J	3800		340	J	2100		140	J	25	J
TOTAL PAHS	**9982**		**1579**		**1563600**		**38420**		**14623**		**393540**		**27423**		**233600**		**14515**		**2693**	
METHOD 8260 - TCL VOLATILE ORGANICS (SOIL) UG/KG																				
ACETONE																				
BENZENE	27		3	J	880	D	930		220		3300		1600		1000		1100		ND	
ETHYLBENZENE	90		ND		9500	D	3400		1200		20000		3400		2400		3100		ND	
TOLUENE	73		4	J	8400	D	2900		120	J	12000		1200		1800		590		ND	
TOTAL XYLENES	160		8	J	14000	D	5500		1600		26000		3700		2800		1900		ND	
BTEX	**350**		**15**		**32780**		**12730**		**3140**		**61300**		**9900**		**8000**		**6690**		**0**	
TOTAL METALS (SOIL) MG/KG																				
LEAD, TOTAL	11.6		8.8		12.5		10.8		18.3		17.4		13		10.3		13.1		10.2	
MERCURY, TOTAL	0.019	U	0.02		0.041		0.02	U	0.024	U	0.03		0.021	U	0.021	U	0.022	U	0.02	U

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TABLE 2

NYSEG - ONEONTA, NY
WESTERN PLANT AREA
POST EXCAVATION ANALYTICAL SUMMARY

Lab Name: STL - Buffalo
Customer: New York State Electric & Gas

Client Sample	OGEXBM029		OGEXBM30		OGEXBM31		OGEXBM32		OGEXBM33		OGEXBM034		OGEXBM035		OGEXBM036		OGEXBM037	
Lab Sample	A7220202		A7380401		A7380402		A7380403		A7380404		A7417401		A7417402		A7417403		A7417404	
Date Sampled	3/8/2007		4/10/2007		4/10/2007		4/12/2007		4/12/2007		4/16/2007		4/16/2007		4/18/2007		4/18/2007	
METHOD 8270 - PAHs (SOIL) UG/KG																		
ACENAPHTHENE	2500		710		47	J	52	J	2000		41	J	200	J	830		81	J
ACENAPHTHYLENE	6700		120	J	12	J	11	J	320	J	10	J	41	J	150	J	170	J
ANTHRACENE	4000		580		36	J	27	J	1700		29	J	140	J	290		120	J
BENZO(A)ANTHRACENE	2400		390	J	37	J	26	J	920		32	J	110	J	110	J	78	J
BENZO(B)FLUORANTHENE	1900	J	330	J	25	J	21	J	770		17	J	61	J	78	J	58	J
BENZO(K)FLUORANTHENE	2000	U	510	U	410	U	390	U	410	U	200	U	25	J	210	U	210	U
BENZO(GHI)PERYLENE	890	J	200	J	19	J	13	J	410		13	J	47	J	41	J	26	J
BENZO(A)PYRENE	1700	J	320	J	29	J	18	J	750		24	J	84	J	75	J	52	J
CHRYSENE	1800	J	330	J	24	J	17	J	740		19	J	80	J	85	J	56	J
DIBENZO(A,H)ANTHRACENE	240	J	45	J	410	U	390	U	92	J	200	U	9	J	12	J	210	U
FLUORANTHENE	4700		820		66	J	42	J	2000		52	J	220		220		140	J
FLUORENE	4400		420	J	24	J	24	J	1000		16	J	100	J	380		130	J
INDENO(1,2,3-CD)PYRENE	740	J	150	J	14	J	9	J	300	J	9	J	32	J	28	J	21	J
2-METHYLNAPHTHALENE	15000		820		49	J	96	J	2300		28	J	220		1400		340	
NAPHTHALENE	24000		1100		130	J	200	J	3500		82	J	400		2500		490	
PHENANTHRENE	13000		1900		160	J	110	J	4900		120	J	540		1200		440	
PYRENE	6200		1100		94	J	62	J	2700		77	J	350		310		220	
DIBENZOFURAN	940	J	61	J	410	U	390	U	160	J	200	U	12	J	89	J	42	J
TOTAL PAHS	**91110**		**9396**		**766**		**728**		**24562**		**569**		**2671**		**7798**		**2464**	
METHOD 8260 - TCL VOLATILE ORGANICS (SOIL) UG/KG																		
ACETONE																		
BENZENE	ND		8	J	ND		ND		39		3	J	ND		45		110	
ETHYLBENZENE	300		480		4	J	ND		1300	E	ND		42		150		2100	E
TOLUENE	ND		22	J	ND		ND		52		2	J	2	J	140		1400	E
TOTAL XYLENES	430	J	550		ND		ND		1300		10	J	79		180		2900	
BTEX	**730**		**1060**		**4**		**0**		**2691**		**15**		**123**		**515**		**6510**	
TOTAL METALS (SOIL) MG/KG																		
LEAD, TOTAL	10.2		24.9		18		9.4		19.1		9.6	J	9.9	J	9.5	J	9.3	J
MERCURY, TOTAL	0.022	U	0.032		0.022	U	0.022	U	0.038		0.021	U	0.023	U	0.021	U	0.022	U

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TABLE 2

NYSEG - ONEONTA, NY
WESTERN PLANT AREA
POST EXCAVATION ANALYTICAL SUMMARY

Lab Name: STL - Buffalo
Customer: New York State Electric & Gas

Client Sample	OGEXBM038		OGEXBM039		0GEXBM040		0GEXBM041		0GEXBM042		0GEXBM043	
Lab Sample	A7417405		A7417406		A7441901		A7441902		A7441903		A7441904	
Date Sampled	4/20/2007		4/20/2007		4/23/2007		4/23/2007		4/24/2007		4/24/2007	
METHOD 8270 - PAHs (SOIL) UG/KG												
ACENAPHTHENE	500		1100		32000		150000	D	3400	J	2400	U
ACENAPHTHYLENE	720		1100		120000	D	640000	D	13000	J	1600	J
ANTHRACENE	120	J	810		52000		260000	D	9600	J	13000	
BENZO(A)ANTHRACENE	86	J	440		28000		60000		22000		9900	
BENZO(B)FLUORANTHENE	67	J	230		17000		100000	D	23000		6200	
BENZO(K)FLUORANTHENE	200	U	100	J	5500		2200	U	10000	J	2400	U
BENZO(GHI)PERYLENE	30	J	140	J	11000		53000		12000	J	1200	J
BENZO(A)PYRENE	57	J	290		20000		120000	D	18000	J	2200	J
CHRYSENE	61	J	290		21000		45000		19000	J	2400	U
DIBENZO(A,H)ANTHRACENE	8	J	36	J	2800		15000		3600	J	310	J
FLUORANTHENE	160	J	820		51000		260000	D	39000		10000	
FLUORENE	250		1000		59000		340000	D	5000	J	2400	U
INDENO(1,2,3-CD)PYRENE	22	J	110	J	8700		46000		11000	J	1200	J
2-METHYLNAPHTHALENE	2200		4200		310000	D	1600000	D	3000	J	1800	J
NAPHTHALENE	3400		6500	D	560000	D	3100000	D	21000	U	3400	
PHENANTHRENE	490		3000		200000	D	270000	D	28000		3600	
PYRENE	230		1100		60000		320000	D	29000		4800	
DIBENZOFURAN	47	J	280		13000		62000		2900	J	2400	U
TOTAL PAHS	**8448**		**21546**		**1571000**		**7441000**		**251500**		**59210**	
METHOD 8260 - TCL VOLATILE ORGANICS (SOIL) UG/KG												
ACETONE	130	U										
BENZENE	260		730000		400	J	12000		1700		18000	
ETHYLBENZENE	730		2000000	E	26000		170000	E	26000		210000	E
TOLUENE	120		540000		6400		84000		11000		110000	E
TOTAL XYLENES	590		1900000		31000		200000		32000		250000	
BTEX	**1700**		**5170000**		**63800**		**466000**		**70700**		**588000**	
TOTAL METALS (SOIL) MG/KG												
LEAD, TOTAL	9.5	J	9.5	J	10.2	J	12.8	J	16.4	J	14.2	J
MERCURY, TOTAL	0.022	U	0.021	U	0.02	U	0.023	U	0.03		0.024	U

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TABLE 3

NYSEG - ONEONTA, NY
WESTERN PLANT AREA
TREATED GROUNDWATER SAMPLING RESULTS

Lab Name: STL - Buffalo		Sytem Start Up						Discharge to POTW															
Client Sample ID		SYSTEM EFF		SYSTEM EFF		SYSTEM EFF		SYSTEM EFF (WD)		SYSTEM EFF(WD)		SYSTEM EFF WEEK 2		SYSTEM EFF (WD)		SYSTEM EFF (WD)		SYSTEM EFF		SYSTEM EFF (WD)		SYSTEM EFF	
Totalizer Reading		10K gallon		25K gallon		40K gallon		232K gallon		433K gallon		Not Recorded		528K gallon		537K gallon		660K gallon		781K gallon		952K gallon	
Lab Sample ID		A6B97501		A6C21401		A6C63101		A6C99501		A6D39001		A6D78301		A6E39101		A7025501		A7175601		A7290401		A7350001	
Date Sampled		10/12/2006		10/18/2006		10/25/2006		11/2/2006		11/9/2006		11/16/2007		11/30/2007		1/9/2007		2/23/2007		3/26/2007		4/9/2007	
	City of Oneonata Industrial Use Ordinance Allowable Daily Average Effluent Limit (ug/L)																						
METHOD 624 - PRIORITY POLLUTANT VOLATILES (AQUEOUS) UG/L																							
1,1,1-TRICHLOROETHANE	50	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
1,1,2,2-TETRACHLOROETHANE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
1,1,2-TRICHLOROETHANE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
1,1-DICHLOROETHANE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
1,1-DICHLOROETHYLENE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
1,2-DICHLOROBENZENE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
1,2-DICHLOROETHANE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
1,2 DICHLOROETHENE (TOTAL)		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U		
1,2-DICHLOROPROPANE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
1,3-DICHLOROBENZENE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
1,4-DICHLOROBENZENE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
2-CHLOROETHYLVINYL ETHER		25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U		
ACROLEIN		100	U	100	U	100	U	100	U	100	U	100	U	100	U	100	U	100	U	100	U		
ACRYLONITRILE		100	U	100	U	100	U	100	U	100	U	100	U	100	U	100	U	100	U	100	U		
BENZENE	50	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	6.3		55		5	U
DICHLOROBROMOMETHANE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
BROMOFORM		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
METHYLBROMIDE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
CARBON TETRACHLORIDE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
CHLOROBENZENE	10	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
CHLOROETHANE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
CHLOROFORM	100	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
CHLOROMETHANE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
CIS-1,3-DICHLOROPROPENE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
CHLORODIBROMOMETHANE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
ETHYLBENZENE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
METHYLENE CHLORIDE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
TETRACHLOROETHENE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
TOLUENE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
TRANS-1,3-DICHLOROPROPENE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
TRICHLOROETHENE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
TRICHLOROFLUOROMETHANE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
VINYL CHLORIDE		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
TOTAL XYLENES																						15	U
METHOD 625 - P.P. BASE NEUTRAL/ACID EXTRACTABLES (AQUEOUS) UG/L																							
1,2,4-TRICHLOROBENZENE		0.12	U	0.12	U	0.12	U	0.12	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U		
1,2-DICHLOROBENZENE		0.036	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U		
1,2-DIPHENYLHYDRAZINE (as AZOBENZENE)		0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U		
1,3-DICHLOROBENZENE		0.066	U	0.066	U	0.066	U	0.066	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U	0.067	U		
1,4-DICHLOROBENZENE		0.085	U	0.085	U	0.086	U	0.086	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U	0.087	U		
BIS(2-CHLOROISOPROPYL)ETHER		0.082	U	0.082	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U	0.083	U		
2,4,6-TRICHLOROPHENOL		0.9	U	0.9	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U	0.91	U		
2,4-DICHLOROPHENOL		0.064	U	0.064	U	0.064	U	0.064	U	0.066	U	0.066	U	0.066	U	0.066	U	0.066	U	0.066	U		
2,4-DIMETHYLPHENOL		0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.13	U	0.32		0.13	U		
2,4-DINITROPHENOL		1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U	1.7	U		
2,4-DINITROTOLUENE		0.7	U	0.7	U	0.7	U	0.7	U	0.72	U	0.72	U	0.72	U	0.72	U	0.72	U	0.72	U		
2,6-DINITROTOLUENE		0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U	0.27	U		
2-CHLORONAPHTHALENE		0.064	U	0.064	U	0.064	U	0.064	U	0.066	U	0.066	U	0.066	U	0.066	U	0.066	U	0.066	U	NA	
2-CHLOROPHENOL		0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U		
2-NITROPHENOL		0.045	U	0.045	U	0.045	U	0.045	U	0.045	U	0.045	U	0.045	U	0.045	U	0.045	U	0.045	U		
3,3'-DICHLOROBENZIDINE		0.077	U	0.077	U	0.077	U	0.077	U	0.078	U	0.078	U	0.078	U	0.078	U	0.078	U	0.078	U		
4,6-DINITRO-O-CRESOL		4.8	U	4.8	U	4.8	U	4.8	U	4.9	U	4.9	U	4.9	U	4.9	U	4.9	U	4.9	U		
4-BROMOPHENYL PHENYL ETHER		0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U		
4-CHLORO-3-METHYLPHENOL		0.036	U	0.036	U	0.036	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U		
4-CHLOROPHENYL PHENYL ETHER		0.088	U	0.088	U	0.088	U	0.088	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U	0.09	U		
4-NITROPHENOL		1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U	1.3	U		
ACENAPHTHENE		0.057	U	0.057	U	0.057	U	0.44		0.058	U	0.058	U	0.058	U	0.058	U	0.22		0.12			
ACENAPHTHYLENE		0.034	U	0.45		0.033	U	1.5		0.033	U	0.033	U	0.25		1.3		0.5		2.1			
ANTHRACENE		0.05	U	0.05	U	0.05	U	0.84		0.051	U	0.051	U	0.051	U	0.88		0.69		0.5			

TABLE 3

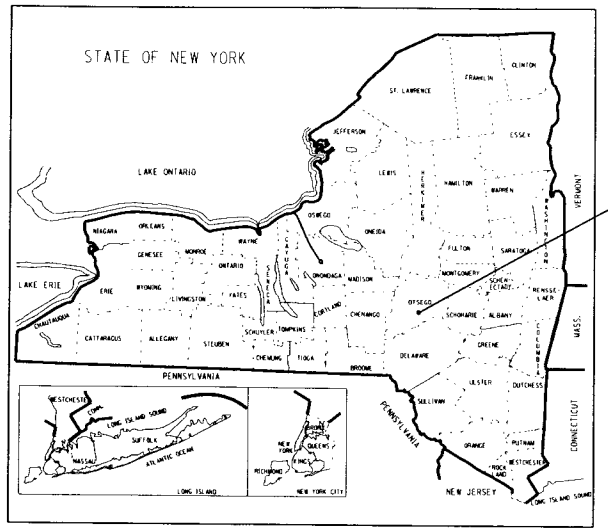
NYSEG - ONEONTA, NY
WESTERN PLANT AREA
TREATED GROUNDWATER SAMPLING RESULTS

Lab Name: STL - Buffalo		Sytem Start Up						Discharge to POTW															
Client Sample ID		SYSTEM EFF		SYSTEM EFF		SYSTEM EFF		SYSTEM EFF (WD)		SYSTEM EFF(WD)		SYSTEM EFF WEEK 2		SYSTEM EFF (WD)		SYSTEM EFF (WD)		SYSTEM EFF		SYSTEM EFF (WD)		SYSTEM EFF	
Totalizer Reading		10K gallon		25K gallon		40K gallon		232K gallon		433K gallon		Not Recorded		528K gallon		537K gallon		660K gallon		781K gallon		952K gallon	
Lab Sample ID		A6B97501		A6C21401		A6C63101		A6C99501		A6D39001		A6D78301		A6E39101		A7025501		A7175601		A7290401		A7350001	
Date Sampled		10/12/2006		10/18/2006		10/25/2006		11/2/2006		11/9/2006		11/16/2007		11/30/2007		1/9/2007		2/23/2007		3/26/2007		4/9/2007	
	City of Oneonata Industrial Use Ordinance Allowable Daily Average Effluent Limit (ug/L)																						
BENZIDINE		2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U	2.4	U		
BENZO(A)ANTHRACENE		0.041	U	0.041	U	0.041	U	3.9		0.042	U	0.42		0.48		2.2		0.81		3.2			
BENZO(A)PYRENE		0.055	U	0.055	U	0.055	U	3.2		0.056	U	0.056	U	0.61		2.3		0.6		4.4			
BENZO(B)FLUORANTHENE		0.059	U	0.059	U	0.059	U	3.8		0.06	U	0.06	U	0.39		2.5		0.74		4.5			
BENZO(GHI)PERYLENE		0.1	U	0.28		0.097	U	2.5		0.097	U	0.097	U	0.32		1.1		0.3		3			
BENZO(K)FLUORANTHENE		0.04	U	0.04	U	0.04	U	4.3		0.04	U	0.04	U	0.04	U	0.59		0.04	U	0.04	U		
BIS(2-CHLOROETHOXY)METHANE		0.081	U	0.081	U	0.081	U	0.081	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U	0.082	U		
BIS(2-CHLOROETHYL)ETHER		0.091	U	0.091	U	0.091	U	0.091	U	0.093	U	0.093	U	0.093	U	0.093	U	0.093	U	0.093	U		
BIS(2-ETHYLHEXYL)PHTHALATE		5	U	5	U	5	U	5	U	5.1	U	5.1	U	5.1	U	5.1	U	5.1	U	5.1	U		
BUTYL BENZYL PHTHALATE		4.2	U	4.2	U	4.2	U	4.2	U	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U		
CHRYSENE		0.034	U	0.034	U	0.034	U	3.7		0.035	U	0.035	U	0.035	U	1.9		0.54		2.4			
Decane		0.67	U	0.67	U	0.67	U	0.67	U	0.68	U	0.68	U	0.68	U	0.68	U	0.68	U	1.2			
DI-N-BUTYL PHTHALATE		0.27	U	0.27	U	0.27	U	0.27	U	0.28	U	0.28	U	0.29		0.31		0.27	U	0.27	U		
DI-N-OCTYL PHTHALATE		4.2	U	4.2	U	4.2	U	4.2	U	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U	4.3	U		
DIBENZO(A,H)ANTHRACENE		0.053	U	0.053	U	0.053	U	0.45		0.054	U	0.054	U	0.054	U	0.26		0.053	U	0.81			
DIETHYLPHTHALATE		0.05	U	0.05	U	0.05	U	0.05	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U	0.051	U		
DIMETHYLPHTHALATE		0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U	0.036	U		
FLUORANTHENE		0.04	U	0.04	U	0.04	U	6		0.04	U	1.3		1.3		2.9		1.3		0.8		NA	
FLUORENE		0.041	U	0.041	U	0.041	U	0.42		0.041	U	0.041	U	0.041	U	0.42		0.44		0.25			
HEXACHLOROBENZENE		0.06	U	0.06	U	0.06	U	0.06	U	0.061	U	0.061	U	0.061	U	0.061	U	0.061	U	0.061	U		
HEXACHLORO-1,3-BUTADIENE		0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U	0.15	U		
HEXACHLOROCYCLOPENTADIENE		5.6	U	5.6	U	5.6	U	5.6	U	5.7	U	5.7	U	5.7	U	5.7	U	5.7	U	5.7	U		
HEXACHLOROETHANE		0.067	U	0.067	U	0.067	U	0.067	U	0.069	U	0.069	U	0.069	U	0.069	U	0.069	U	0.069	U		
INDENO(1,2,3-CD)PYRENE		0.042	U	0.26		0.041	U	1.8		0.041	U	0.041	U	0.26		0.85		0.22		2.3			
ISOPHORONE		0.036	U	0.036	U	0.036	U	0.036	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U	0.037	U		
N-NITROSODI-N-PROPYLAMINE		0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U	0.22	U		
N-NITROSODIMETHYLAMINE		0.92	U	0.92	U	0.92	U	0.92	U	0.93	U	0.93	U	0.93	U	0.93	U	0.93	U	0.93	U		
N-NITROSODIPHENYLAMINE		0.057	U	0.057	U	0.057	U	0.057	U	0.058	U	0.058	U	0.058	U	0.058	U	0.058	U	0.36			
NAPHTHALENE		0.076	U	0.076	U	0.076	U	0.42		0.078	U	0.078	U	0.078	U	0.62		0.076	U	0.24			
NITROBENZENE		0.1	U	0.1	U	0.1	U	0.1	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U		
Octadecane		0.67	U	0.67	U	0.67	U	0.67	U	0.68	U	0.68	U	0.68	U	0.68	U	0.68	U	1.1			
PENTACHLOROPHENOL		1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U	1.5	U		
PHENANTHRENE		0.03	U	0.03	U	0.03	U	0.92		0.03	U	0.03	U	0.03	U	0.72		0.29		0.47			
PHENOL	100	0.023	U	0.023	U	0.023	U	0.023	U	0.024	U	0.024	U	0.024	U	0.024	U	1.2		0.37			
PYRENE		0.039	U	0.039	U	0.039	U	9.5		0.84		1.9		0.68		3.8		1.8		1.4			
TOTAL METALS (AQUEOUS) MG/L																							
ARSENIC, TOTAL	1000	0.01	U	0.01	U	0.01	U	0.027		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.014			
BARIUM, TOTAL	2000	0.083		0.096		0.11		0.28		0.11		0.11		0.084		0.068		0.087		0.035			
BERYLLIUM, TOTAL	150	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U		
CADMIUM, TOTAL	1000	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U		
CHROMIUM, TOTAL	2000	0.004	U	0.004	U	0.004	U	0.045		0.004	U	0.004	U	0.004	U	0.004	U	0.004	U	0.004	U		
COPPER, TOTAL	5000	0.01	U	0.01	U	0.01	U	0.076		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.014			
LEAD, TOTAL	500	0.011		0.011		0.021		0.12		0.005	U	0.005	U	0.005	U	0.016		0.013		0.005	U	NA	
MANGANESE,TOTAL	1000	1.5		1.4		1.8		0.9		1.1		2.7		1.2		0.6		0.92		0.0041			
MERCURY, TOTAL	250	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U		
NICKEL, TOTAL	2000	0.01	U	0.01	U	0.01	U	0.057		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U		
SELENIUM, TOTAL	1000	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U	0.015	U		
SILVER, TOTAL	1000	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U		
TOTAL ZINC	5000	0.01	U	0.01	U	0.01	U	0.25		0.01	U	0.01	U	0.01	U	0.02		0.01	U	0.01	U		
WET CHEMISTRY ANALYSIS (AQUEOUS) MG/L-N																							
AMMONIA	30000	1.1		0.97		0.95		0.31		0.6		0.19		0.64		0.3		2.1		0.54			
BROMIDE	1000	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
CYANIDE, TOTAL	500	10	U	10	U	10	U	27.2		14.1		73.5		248		619		243		39.4			
FLUORIDE	10000	0.14		0.21		0.16		0.16		0.19		0.15	U	0.18		0.11		0.27		0.14			
Oil & Grease		5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U		
SULFIDE	3000	1	U	1	U	1	U	2	U	1	U	1	U	1	U	1.2		1	U	1	U		
TOTAL ALKALINITY		212		243		141		68.3		174		170		172		110		73.3		27.8			
Total Dissolved Solids		462		410		358		1030		355		431		594		366		443		280		NA	
TOTAL KJELDAHL NITROGEN		0.2		0.26		0.94		2.2		1		0.71		1.2		1.6		2.4		1.3			
TOTAL ORGANIC CARBON		1	U	1	U	1	U	1	U	1	U	1.7		3		2		5.6		9.4			
PHOSPHOROUS, TOTAL (as P)	7000	0.093		0.056		0.077		1.4		0.073		0.024		0.059		0.038		0.038		0.04			
TOTAL RECOVERABLE PHENOLICS		0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U	0.01	U		
CHLORINE, TOTAL RESIDUAL	1500	0.03		0.05		0.03		0.02	U	0.03		0.08		0.05		0.02		0.12		0.05			
TOTAL SUSPENDED SOLIDS		4	U	4	U	7		228		4	U	4	U	4	U	4	U	4	U	9			

NOTES
Final totalizer reading for water treatment system was 1,285,000 gallons on 4-23-07.
System shut down and demobilized after this date.
U - Non detect at or below method detection limits.
NA - Analytical method not analyzed

FIGURES

DESIGN SUPERVISOR CHF | JOB MANAGER KAD | DESIGNED BY SAU/BAA | ESTIMATED BY KBP | DRAFTED BY KAM/KBP | CHECKED BY KBP/CHF



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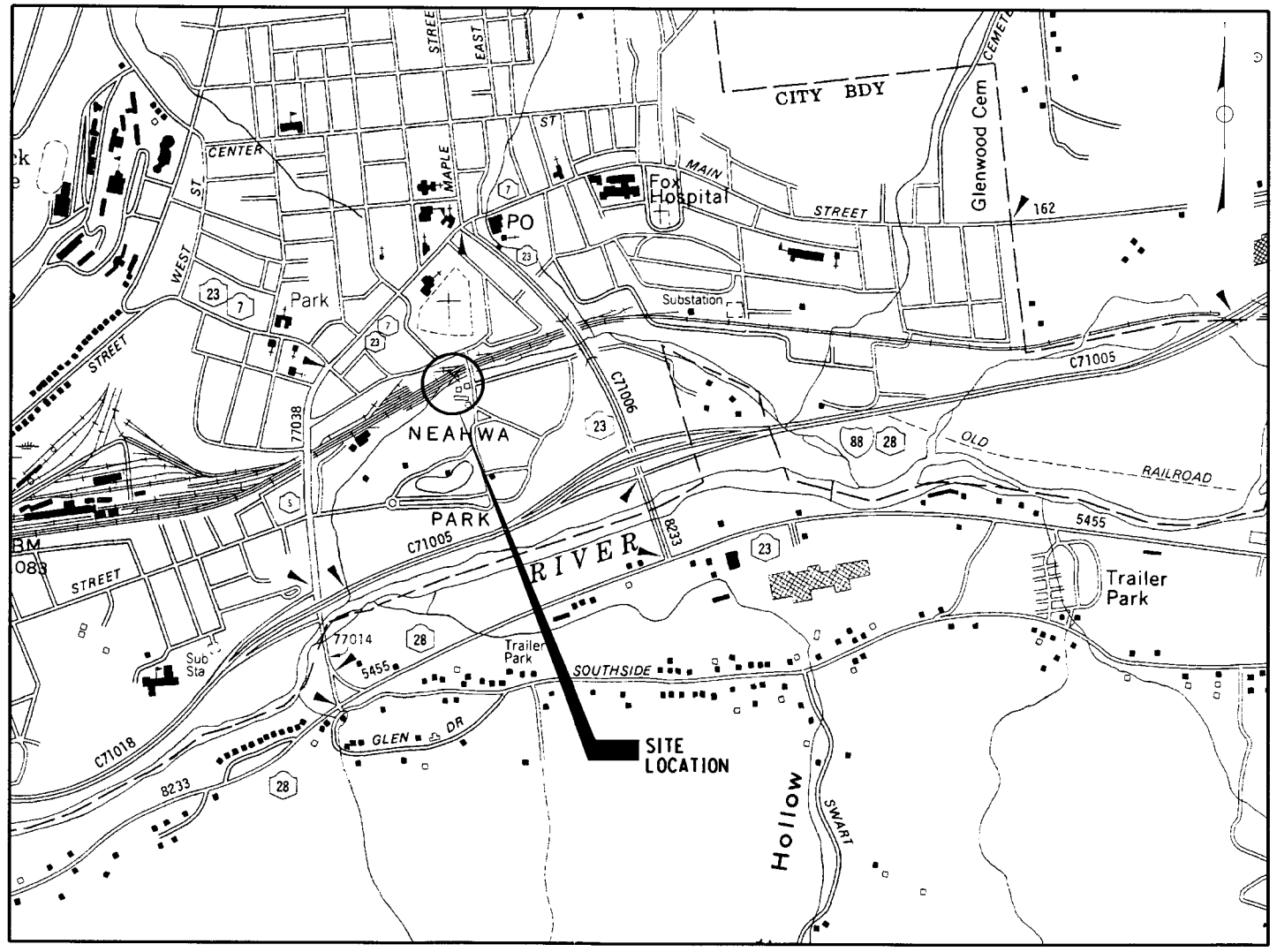
OTSEGO COUTY, NY

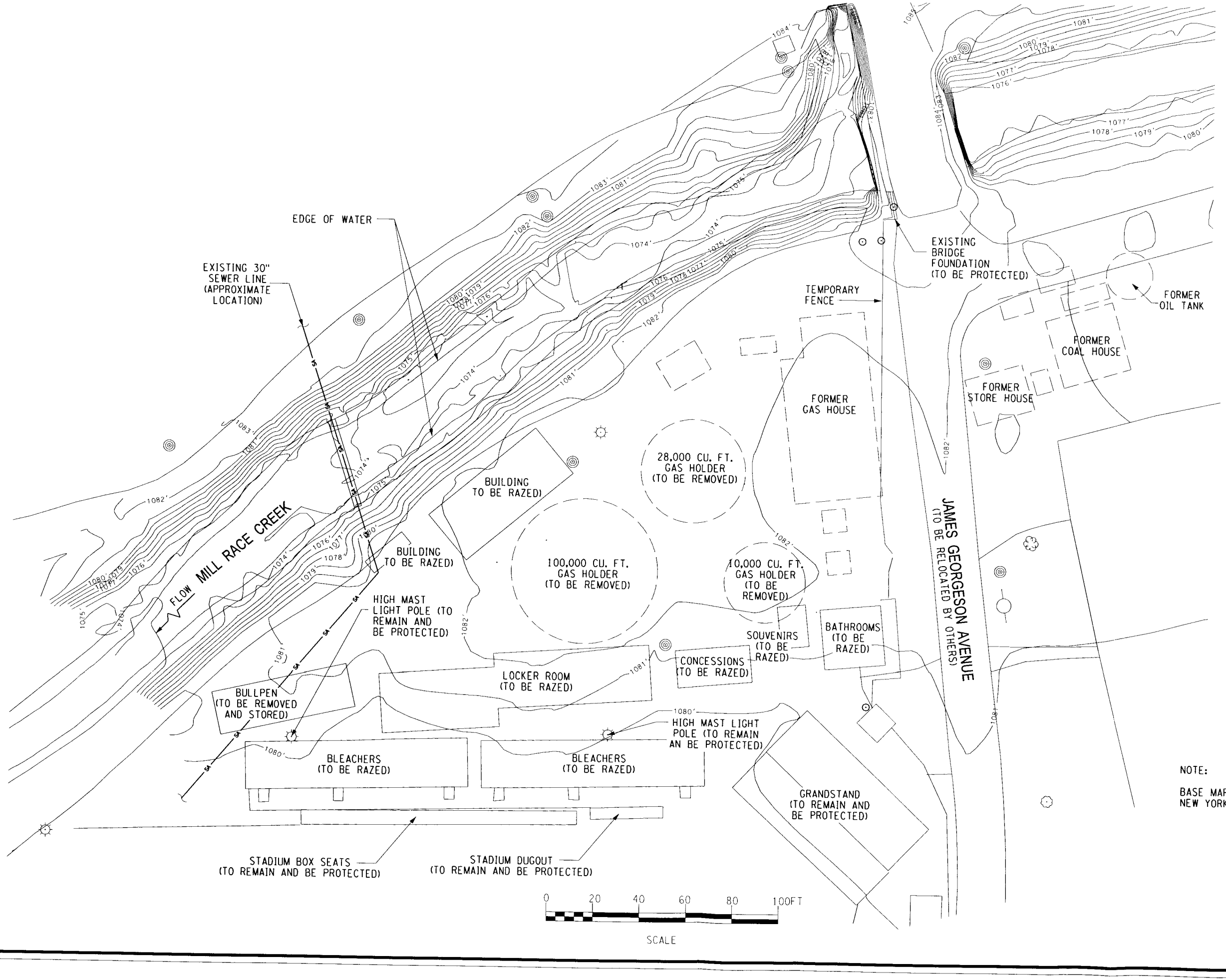


PROJECT LOCATION MAP
NOT TO SCALE

PLANS PREPARED BY:

EarthTech
A Tyco International Ltd. Company
40 BRITISH AMERICAN BLVD.
LATHAM, NEW YORK 12110

ONEONTA MGP	
NEW YORK STATE ELECTRIC AND GAS	
TOWN OF ONEONTA	
OTSEGO COUNTY	
FIGURE NO.	
1	



NOTE:

BASE MAP PROVIDED BY
NEW YORK STATE ELECTRIC AND GAS.

NO	REVISIONS	ORN	CHK	DATE

EARTH TECH
40 BRITISH AMERICAN BLVD.
LATHAM, NY 12110
(518) 951-2200

ORN	KBP	4/2006
DES	BAA	4/2006
CHK		
APP	CHF	4/2006

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FIGURE 2
FORMER OPERATIONS LAYOUT

ONEONTA MGP
NEW YORK STATE ELECTRIC AND GAS
ONEONTA, NEW YORK

DATE	DECEMBER 2007
PROJECT NO	93190
FILENAME	ONEONTA
SHEET NO	2

TYPICAL EXCAVATION CELL (15X50)

AREA 4

YELLOW CAUTION TAPE AROUND PERIMETER OF EXCAVATION

ORANGE CONSTRUCTION FENCE & SILTATION FENCE & EARTH BERM

MH

CB

CONTAMINATION REDUCTION ZONE

EXCLUSION ZONE

6'-0" CHAIN LINK FENCE (PANELS OR POST DRIVEN)

AREA 7

AREA 8

AREA 9

B

B

STOCKPILE MANAGEMENT AREA (40X80)

CONTAMINATION REDUCTION ZONE

SAFETY ZONE

TEMPORARY RELOCATION OF DAVID W. BRENNER

EQUIPMENT CONTAMINATION REDUCTION PAD

SOCCER

A

A

ORANGE CONSTRUCTION FENCE

JAMES GEORGESON AVENUE

SAFETY ZONE

FRAC TANK (10X50)

PERSONNEL CONTAMINATION REDUCTION AREA (10X10)

PORTABLE TOILET

PARKING

PROJECT TRAILERS

EXCLUSION ZONE
(VARIES BASED ON TYPICAL EXCAVATION CELL)

CONTAMINATION REDUCTION ZONE

Mapping Reference::

1. Eastern Plant Area mapping from plan titled " Figure 4, Project Layout", James Georgeson Avenue, Former MGP Site, Oneonta, NY" by NYSEG Engineering Services, Binghamton, NY.

PLAN

NORTH

Scale in Feet

0 20 40

CAD FILE NAME: L:\work\93190\CADD\Oneonta_soil_boring\Oneonta-Conformation-Sample.dwg

NO	REVISIONS	DRN	CHK	DATE

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	DRN	DES	CHD	APP
	-	-	-	-

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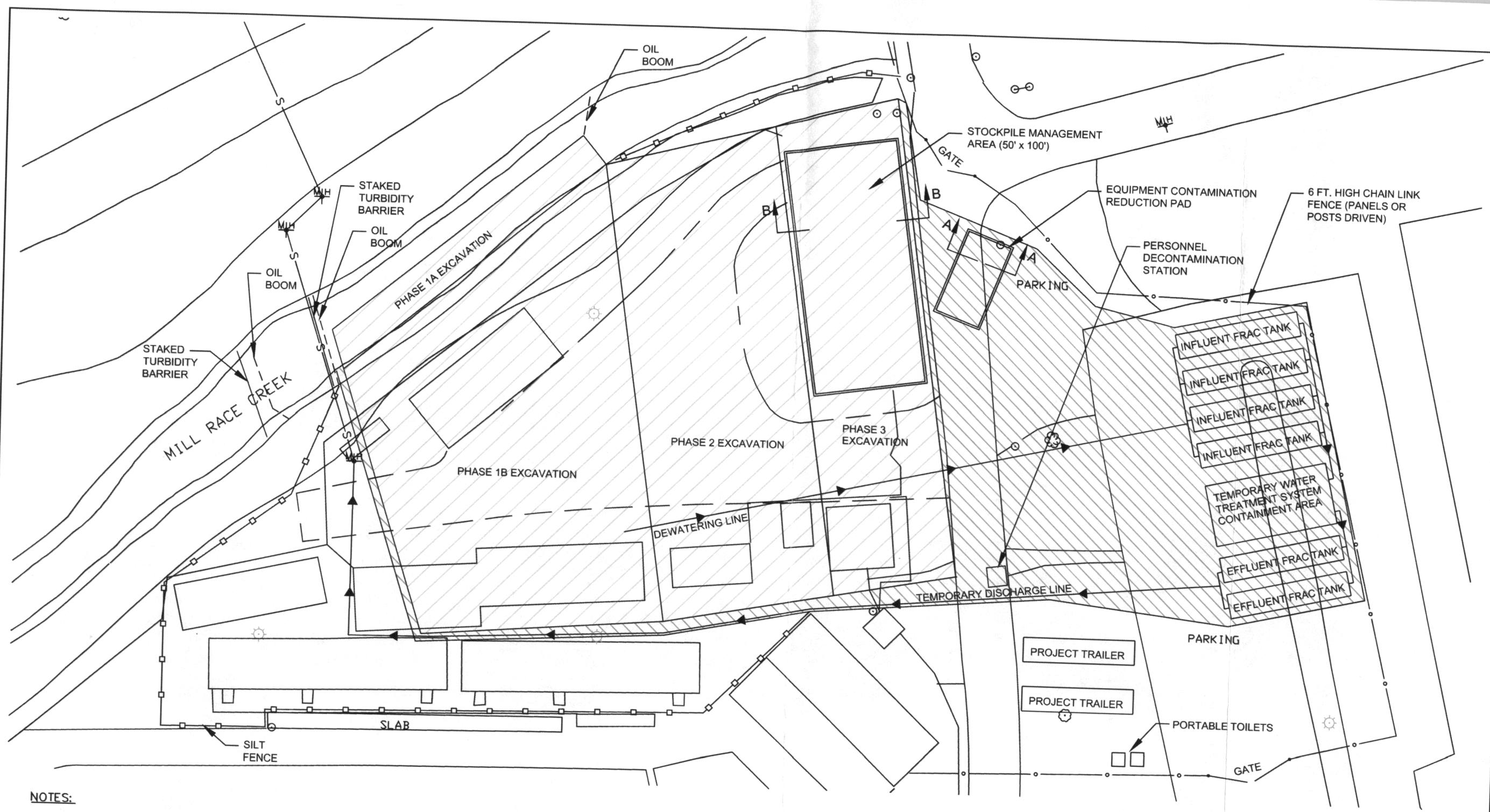
FIGURE 3
EASTERN PLANT AREA
SITE LAYOUT

ONEONTA MGP
NEW YORK STATE ELECTRIC AND GAS
ONEONTA, NEW YORK

DATE	DECEMBER, 2007
PROJECT NO	93190
DRAWING NO	ONEONTA
SHEET NO	3



NOTES:

1. LOCATION OF FENCING TO BE FIELD VERIFIED BY CONTRACTOR AND COORDINATED WITH THE CITY OF ONEONTA.
2. EQUIPMENT CONTAMINATION PAD MAY NEED TO BE RELOCATED DURING PHASE 3 EXCAVATION.
3. TEMPORARY WASTEWATER DISCHARGE LINE SHALL BE HEAT TRACED AND INSULATED TO PREVENT FREEZING.

Mapping Reference:

1. Base mapping from plan titled " Sample & Test Locations, Oneonta MGP Site (Neahwa Park), Oneonta, NY" by NYSEG Engineering Services, Binghamton, NY, date 12/23/02.

PLAN

NORTH

Scale in Feet

0 20 40

LEGEND

- OUTFALL
- MANHOLE
- SANATARY SEWER
- SILT FENCE
- EXCULSION ZONE
- CONTAMINATION REDUCTION ZONE

CAD FILE NAME: L:\work\93190\CADD\Oneonta_soil_boring\Oneonta-Conformation-Sample.dwg

NO	REVISIONS	DRN	CHK	DATE

40 BRITISH AMERICAN BOULEVARD
LATHAM, NEW YORK 12110
(518) - 951-2200

DRN	-
DES	-
CKD	-
APP	-

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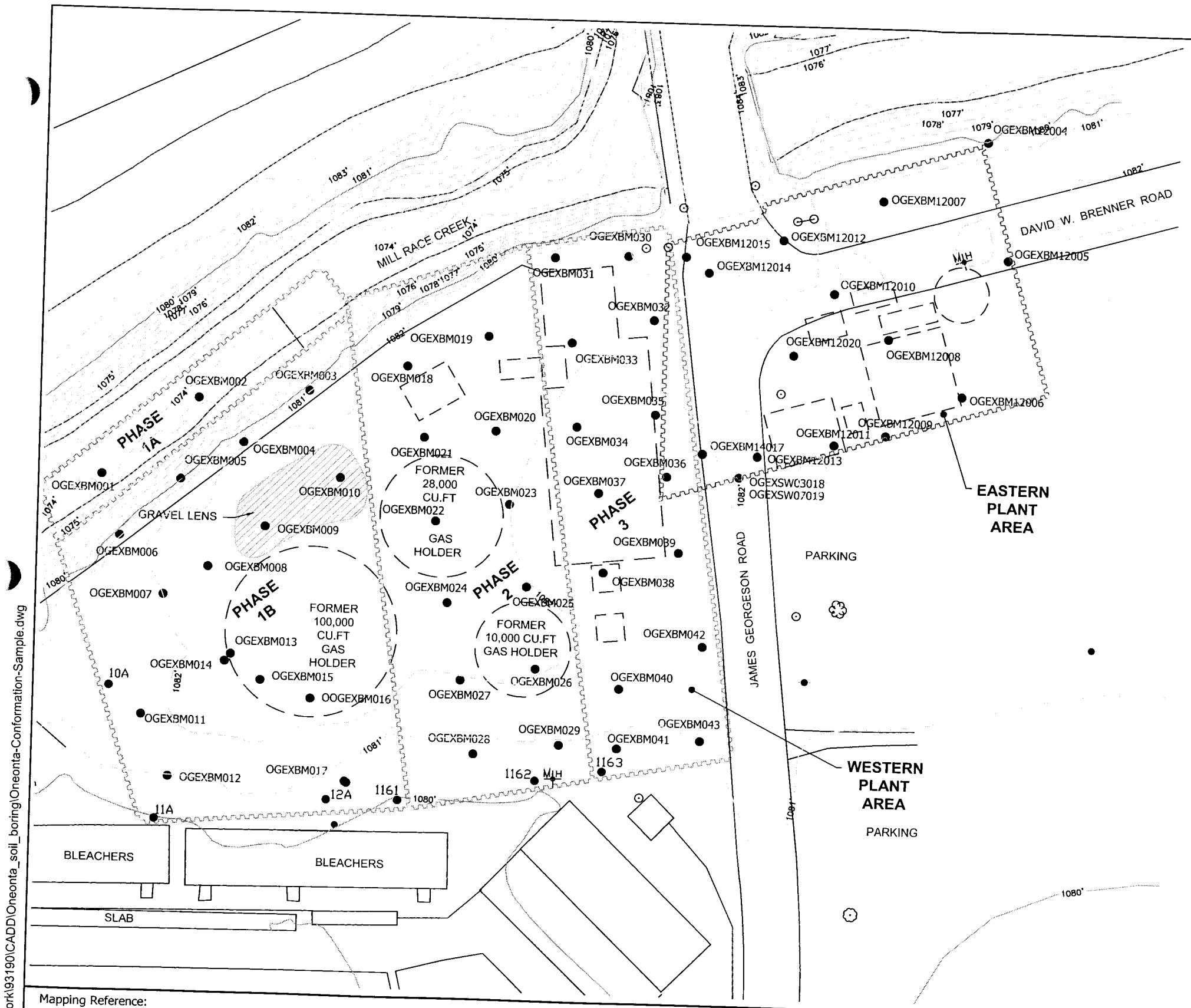
FIGURE 4
WESTERN PLANT AREA
SITE LAYOUT

ONEONTA MGP
NEW YORK STATE ELECTRIC AND GAS
ONEONTA, NEW YORK

DATE	DECEMBER, 2007
PROJECT NO	93190
DRAWING NO	ONEONTA
SHEET NO	4



Oneonta James George Avenue
Former Manufactured Gas Plant Site
2007 Western Plant Area Remediation Project

Results of WPA Excavation Confirmation Samples

Phase	Northing	Easting	Sample Identification	Collection Date	Depth Below Grade (feet)	Total PAHs (ppm)	BTEX (ppm)
1A	897183.39	1231653.02	OGEXBM001	10/16/06	8'	1.897	0.222
	897212.23	1231687.86	OGEXBM002	10/17/06	8'	3.01	0.788
1B	897215.90	1231728.13	OGEXBM003	11/03/06	16'	277.28	12.82
	897196.30	1231704.61	OGEXBM004	11/03/06	16'	19.1	3.01
	897183.04	1231682.11	OGEXBM 005	11/08/06	16'	2053	0.866
	897161.73	1231680.22	OGEXBM 006	11/08/06	16'	17.2	3.99
	897140.38	1231676.85	OGEXBM 007	11/08/06	16'	96.7	5.57
	897151.08	1231692.94	OGEXBM 008	11/08/06	16'	15.475	1.7
	897166.34	1231713.41	OGEXBM 009	11/08/06	16'	359.2	0.953
	897185.00	1231740.59	OGEXBM 010	11/08/06	16'	254.8	20.2
	897095.99	1231669.78	OGEXBM 011	11/15/06	16'	480.3	3.66
	897073.36	1231680.15	OGEXBM 012	11/15/06	16'	12.23	1.4
	897119.04	1231702.07	OGEXBM 013	11/17/06	16'	70.6	0.299
	* See Note Below		OGEXBM 014	11/17/06	16'	33.17	2.3
	897109.72	1231713.09	OGEXBM 015	11/17/06	16'	6.989	0.66
	897103.36	1231731.58	OGEXBM 016	11/30/06	16'	9.263	2.45
	897073.18	1231745.05	OGEXBM 017	11/30/06	16'	7.07	42.96
2	897226.50	1231764.16	OGEXBM 018	02/08/07	20'	76.37	15.270
	897238.29	1231793.46	OGEXBM 019	02/08/07	20'	9.96	0.350
	897203.65	1231797.01	OGEXBM 020	02/12/07	20'	1.58	0.015
	897200.61	1231770.93	OGEXBM 021	02/12/07	20'	1563.80	32.780
	897170.07	1231775.87	OGEXBM 022	02/21/07	20'	38.42	12.730
	* See Note Below		*OGEXBM 023	02/21/07	20'	14.62	3.140
	897140.07	1231780.89	OGEXBM 024	02/28/07	20'	393.54	61.3
	897146.68	1231809.8	OGEXBM 025	02/28/07	20'	27.42	9.9
	897116.49	1231813.82	OGEXBM 026	03/02/07	20'	233.60	8
	897111.69	1231786.40	OGEXBM 027	03/02/07	20'	14.52	6.690
	897084.61	1231791.86	OGEXBM 028	03/06/07	20'	2.69	0
	897088.69	1231823.10	OGEXBM 029	03/08/07	20'	91.11	0.73
	897266.95	1231843.79	OGEXBM 030	04/10/07	20'	9.40	1.060
	897267.70	1231817.03	OGEXBM 031	04/10/07	20'	0.766	0.004
3	897245.77	1231853.71	OGEXBM 032	04/12/07	20'	0.728	0
	897236.73	1231824.08	OGEXBM 033	04/12/07	20'	24.56	2.691
	897205.98	1231826.68	OGEXBM 034	04/16/07	20'	0.569	0.015
	897211.29	1231855.08	OGEXBM 035	04/16/07	20'	2.67	0.123
	897188.71	1231859.81	OGEXBM 036	04/18/07	20'	7.80	0.515
	897181.98	1231835.26	OGEXBM 037	04/18/07	20'	2.46	6.510
	897152.71	1231837.68	OGEXBM 038	04/20/07	20'	8.45	1.7
	897160.76	1231864.81	OGEXBM 039	04/20/07	20'	21.55	5170
	897110.00	1231844.53	OGEXBM 040	04/23/07	20'	1571.00	63.8
	897087.99	1231844.31	OGEXBM 041	04/23/07	20'	7441.00	466
	897126.38	1231874.44	OGEXBM 042	04/24/07	20'	251.50	70.7
	897091.59	1231874.40	OGEXBM 043	04/24/07	20'	59.21	588

* NOTE: Northing and Easting coordinates have been interperlated from the 30' X 30' sample grid.

Oneonta James George Avenue
Former Manufactured Gas Plant Site
2006 Eastern Plant Area Remediation Project

Results of EPA Excavation Confirmation Samples

Number	Northing	Easting	Sample Identification	Collection Date	Depth Below Grade (feet)	Total PAHs (ppm)	BTEX (ppm)
1	897314.32	1231973.69	OGEX-BM-12004	12/20/05	12'	12.293	0.56
2	897271.28	1231982.13	OGEX-BM-12005	12/22/05	12'	0.224	0.031
3	897220.94	1231966.61	OGEX-BM-12006	12/29/05	12'	2.92	7.065
4	897291.78	1231936.10	OGEX-BM-12007	12/30/05	12'	6.09	0.054
5	897241.18	1231939.25	OGEX-BM-12008	01/03/06	12'	2.37	0.373
6	897205.82	1231939.13	OGEX-BM-12009	01/04/06	12'	0.389	0
7	897257.28	1231919.14	OGEX-BM-12010	01/06/06	12'	1.098	0
8	897201.91	1231920.45	OGEX-BM-12011	01/09/06	12'	0.969	0.231
9	897276.44	1231900.20	OGEX-BM-12012	1/9/2006	12'	0	0.002
10	897197.05	1231892.64	OGEX-BM-12013	01/11/06	12'	14.32	0.001
11	897263.73	1231873.23	OGEX-BM-12014	01/12/06	12'	0	0
12	897269.31	1231864.76	OGEX-BM-12015	01/13/06	12'	3.821	0.049
13	897197.44	1231872.53	OGEX-BM-14017	01/20/06	12'	113.22	1.781
14	897189.15	1231886.07	OGEX-SW-03018	01/20/06	3'	346.1	0.038
15	897189.15	1231886.07	OGEX-SW-07019	01/23/06	7'	240.48	0.233
16	897234.33	1231904.99	OGEX-BM-12020	01/24/06	12'	4.916	0.964

Mapping Reference:

1. Base mapping from plan titled " Sample & Test Locations, Oneonta MGP Site (Neahwa Park), Oneonta, NY" by NYSEG Engineering Services, Binghamton, NY, date 12/23/02.

2. Soil sample locations from a GPS survey performed by NYSEG.

3. Eastern Plant Area shown digitized from plan titled " Cantilevered Sheet Piling Plan & Section, & Notes, by Sevenson Environmental, dated 11/15/05.

PLAN

NORTH

Scale in Feet

0 20 40

LEGEND

OGEXBM007 ● SOIL SAMPLE LOCATION

CAD FILE NAME: L:\work\93190\CADD\Oneonta_soil_boring\Oneonta-Conformation-Sample.dwg

DRN | CHK | DATE

REVISIONS

NO

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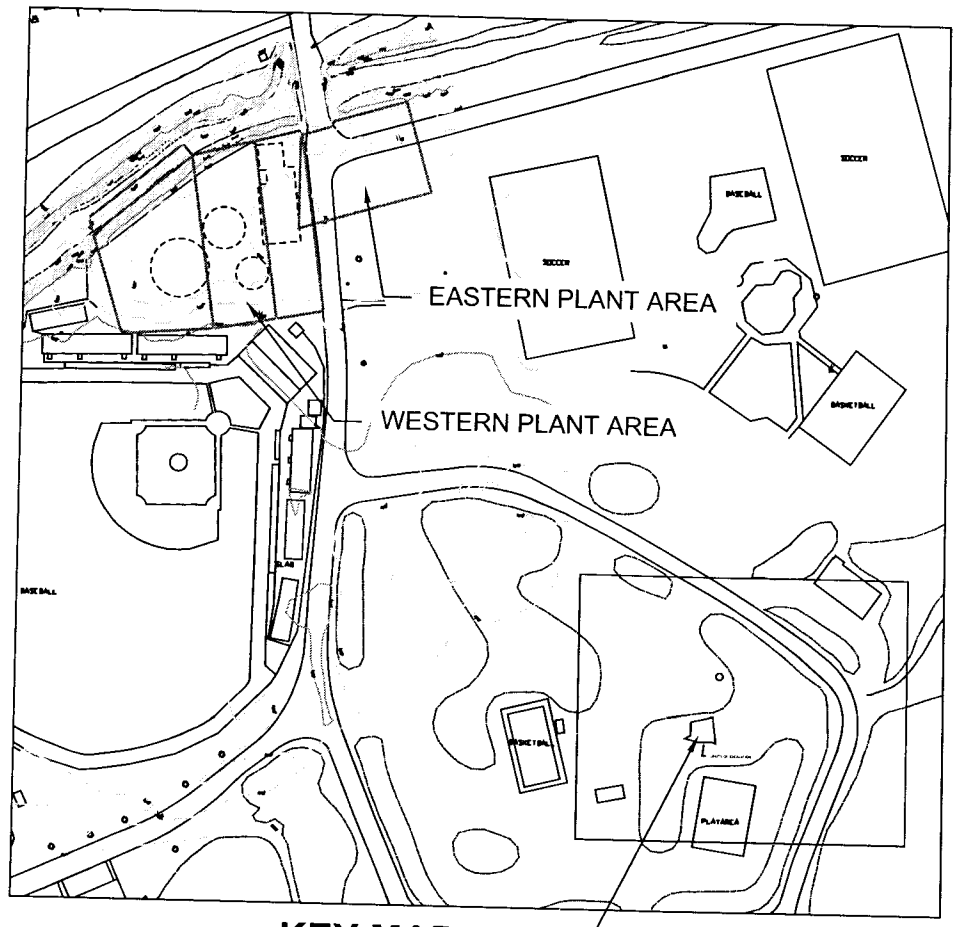
FIGURE 5
EASTERN & WESTERN PLANT AREA SOIL SAMPLE LOCATIONS

ONEONTA MGP
NEW YORK STATE ELECTRIC AND GAS
ONEONTA, NEW YORK

DATE DECEMBER, 2007
PROJECT NO 93190
DRAWING NO ONEONTA
SHEET NO 5

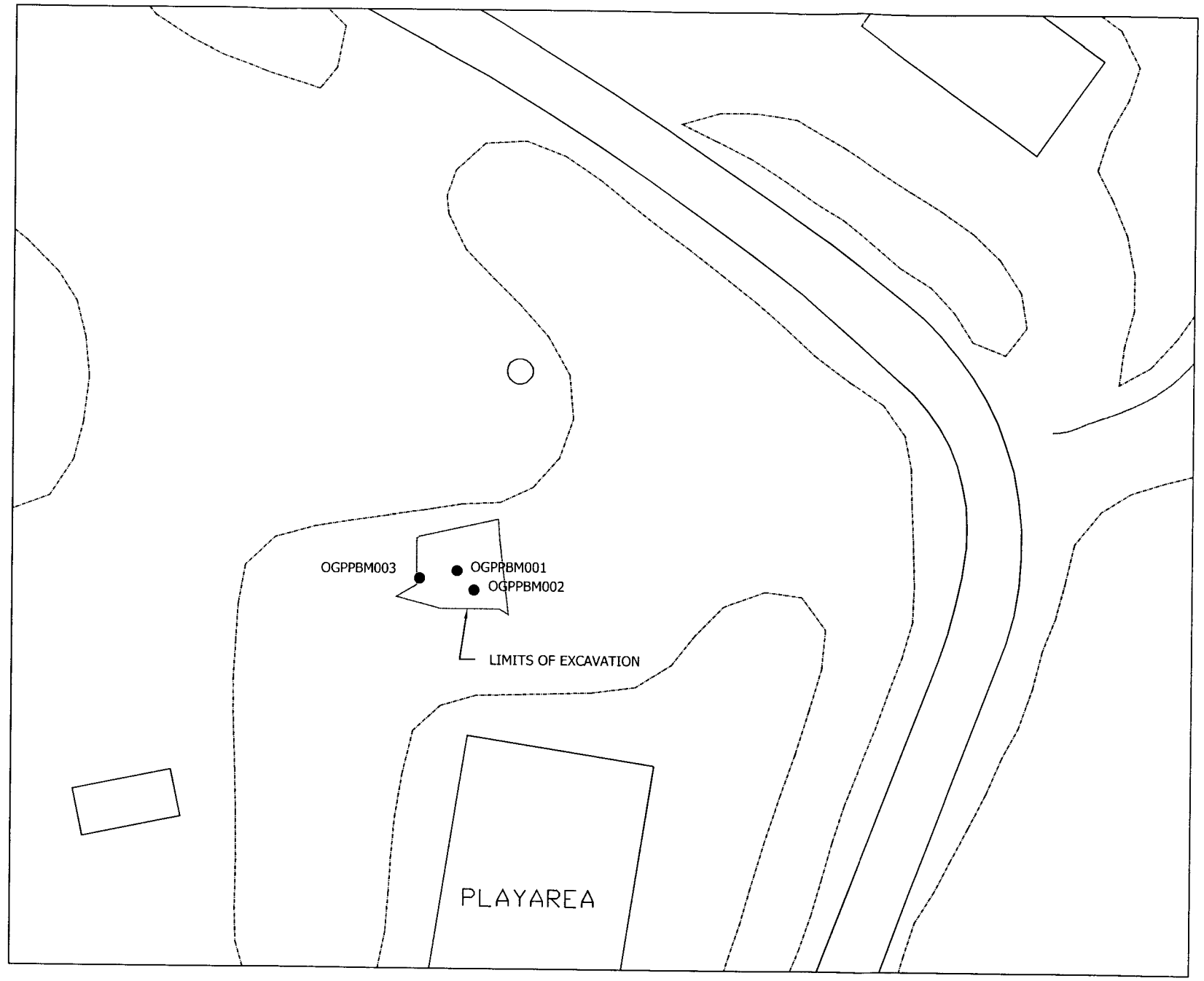


KEY MAP

NORTH

Scale in Feet

0 100' 200'



PLAN

NORTH

Scale in Feet

0 20 40

Oneonta James George Avenue
Former Manufactured Gas Plant Site
2007 Western Plant Area Remediation Project

Results of Purifier Waste Excavation Confirmation Samples

Number	Northing	Easting	Sample Identification	Collection Date	Depth Below Grade (feet)	Total Cyanide (ppm)
1	896641.5	1232303.22	OGPPBM 001	03/01/07	2'	ND
2	896635.8	1232308.19	OGPPBM 002	03/01/07	2'	ND
3	896639.23	1232292.23	OGPPBM 003	03/01/07	2'	ND

Mapping Reference:

1. Base mapping from plan titled " Sample & Test Locations, Oneonta MGP Site (Neahwa Park), Oneonta, NY" by NYSEG Engineering Services, Binghamton, NY, date 12/23/02.

2. Soil sample locations from a GPS survey performed by NYSEG.

LEGEND

OGEXBM001 ● SOIL SAMPLE LOCATION

NO	REVISIONS	DRN	CHK	DATE

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(518) 951-2200

DRN	-
DES	-
CKD	-
APP	-

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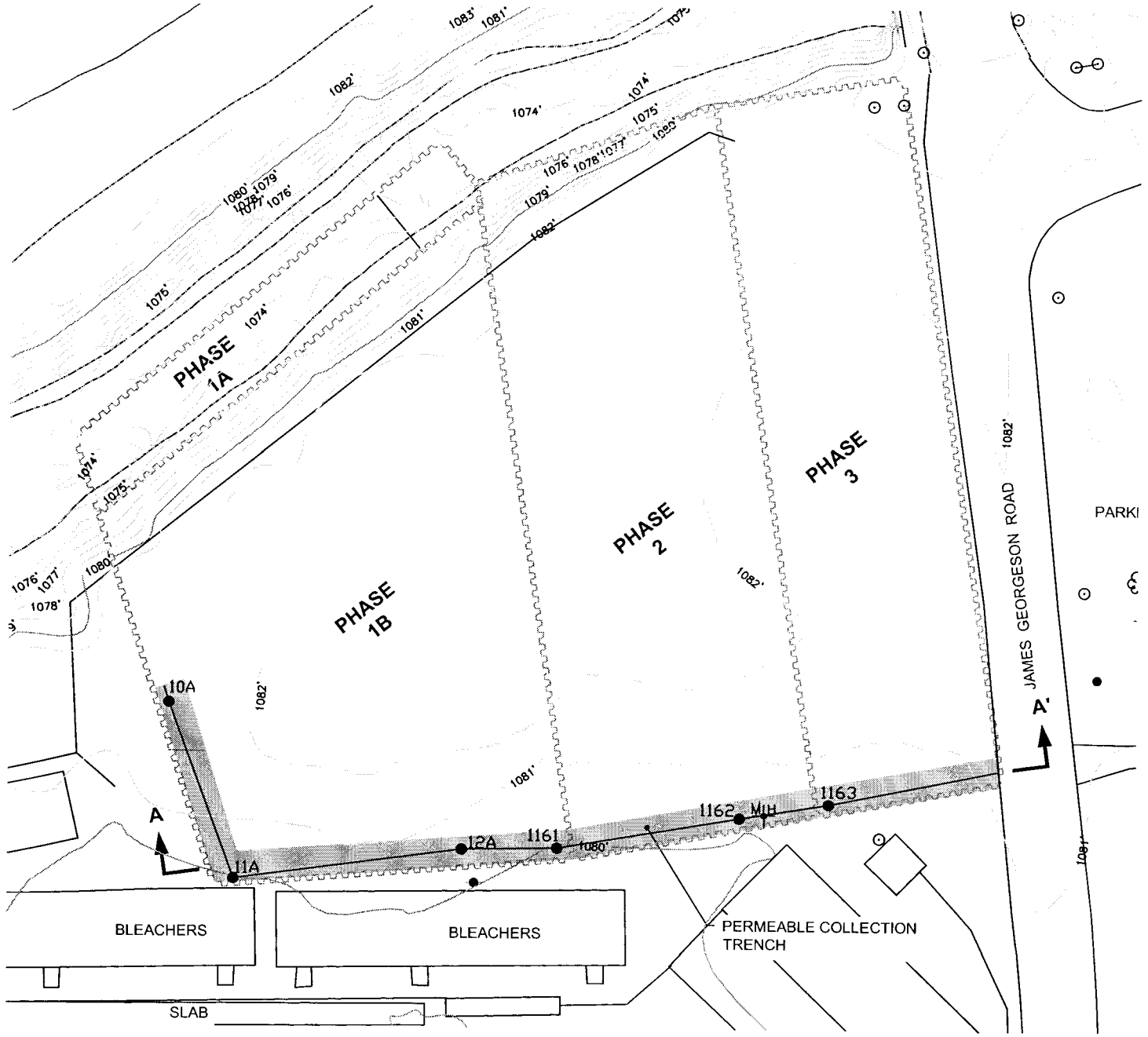
FIGURE 6
PURIFIER WASTE AREA
SOIL SAMPLE LOCATIONS

ONEONTA MGP
NEW YORK STATE ELECTRIC AND GAS
ONEONTA, NEW YORK

DATE	DECEMBER, 2007
PROJECT NO	93190
DRAWING NO	ONEONTA
SHEET NO	6

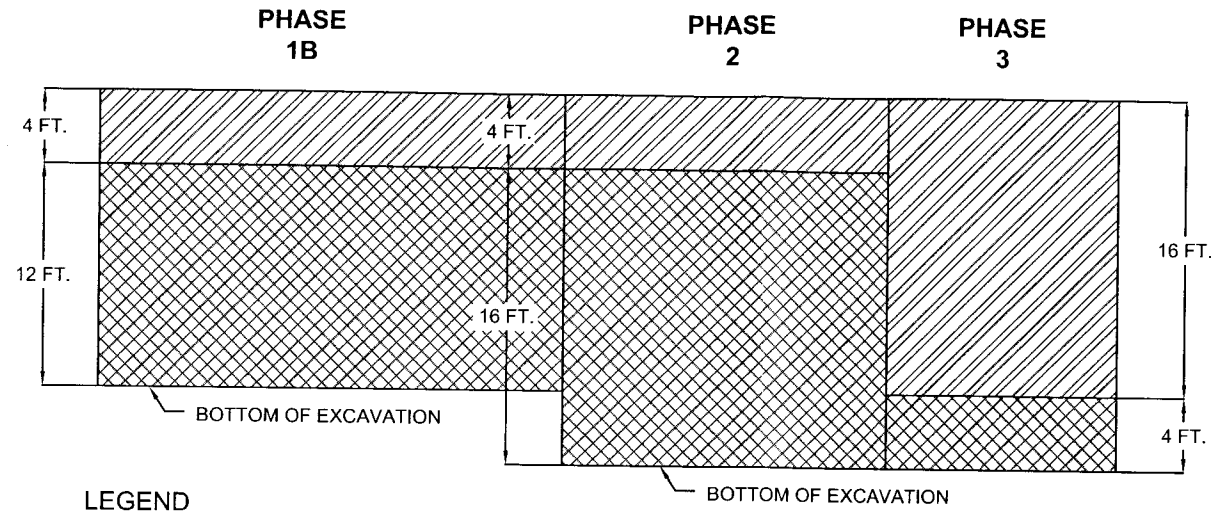
CAD FILE NAME: L:\work\93190\CADD\Oneonta_soil_boring\Oneonta-Conformation-Sample.dwg



PLAN

Scale in Feet

0 15 30



LEGEND

- GENERAL BACKFILL MATERIAL
- #1 STONE
- 1163 — SURVEYED CENTERLINE OF COLLECTION TRENCH (BY OTHERS)

SECTION A-A'
COLLECTION TRENCH

NOT TO SCALE

Mapping Reference:

1. Base mapping from plan titled " Sample & Test Locations, Oneonta MGP Site (Neahwa Park), Oneonta, NY" by NYSEG Engineering Services, Binghamton, NY, date 12/23/02.

NORTH

CAD FILE NAME: L:\work\93190\CADD\Oneonta_soil_boring\Oneonta-Conformation-Sample.dwg

NO.	REVISIONS	DRN	CHK	DATE

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FIGURE 7
WESTERN PLANT AREA
PERMEABLE COLLECTION TRENCH

ONEONTA MGP
NEW YORK STATE ELECTRIC AND GAS
ONEONTA, NEW YORK

DATE	DECEMBER 2007
PROJECT NO	93190
DRAWING NO	ONEONTA
SHEET NO	7