



**NORTHEAST TREATERS OF NEW YORK, LLC  
GREENE COUNTY, NEW YORK**

**Final Engineering Report**

**NYSDEC Site Number: C420029**

***Prepared for:***

Northeast Treathers of New York, LLC  
796 Schoharie Turnpike  
Athens, New York 10701

***Prepared by:***

Sterling Environmental Engineering, P.C.  
24 Wade Road  
Latham, New York 12110

July 15, 2016

*"Serving our clients and the environment since 1993"*

**NORTHEAST TREATERS OF NEW YORK, LLC  
GREENE COUNTY, NY**

**FINAL ENGINEERING REPORT  
SITE #C420029**

**TABLE OF CONTENTS**

	<b><u>Page #</u></b>
TABLE OF CONTENTS.....	i
CERTIFICATIONS .....	iii
LIST OF ACRONYMS .....	iv
1.0 BACKGROUND AND SITE DESCRIPTION .....	1
2.0 SUMMARY OF SITE REMEDIATION.....	1
2.1 Remedial Action Objectives .....	1
2.1.1 Soil RAOs .....	1
2.1.2 Sediment RAOs .....	1
2.2 Description of Selected Remedy.....	2
3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS..	4
4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED.....	4
4.1 Governing Documents .....	4
4.1.1 Site Specific Health & Safety Plan (HASP) .....	4
4.1.2 Stormwater Pollution Prevention Plan (SWPPP) .....	4
4.1.3 Community Air Monitoring Plan (CAMP).....	4
4.1.4 Excavation Work Plan (EWP) .....	5
4.1.5 Contractors Site Operations Plans (SOPs).....	5
4.1.6 Citizen Participation Plan (CPP).....	5
4.2 Remedial Program Elements.....	5
4.2.1 Contractors and Consultants .....	5
4.2.2 Site Preparation.....	6
4.2.3 General Site Controls.....	7
4.2.4 Nuisance Controls.....	7
4.2.5 Remediation Work Sequence.....	7
4.2.6 CAMP Results .....	8
4.2.7 Reporting .....	8
4.3 Management of Impacted Materials .....	9
4.3.1 Impacted Soil/Sediment Removal.....	9
4.3.2 Impacted Soil/Sediment Reuse .....	9
4.4 Remedial Performance/Documentation Sampling.....	9
4.5 Imported Backfill .....	10
4.6 Impacted Media Remaining at the Site .....	10
4.7 Soil Cover System .....	10
4.8 Other Engineering Controls .....	11
4.9 Institutional Controls .....	11
4.10 Deviations from the Remedial Work Plan .....	11

## **Tables**

Table 1	Commercial Use Soil Cleanup Objectives (SCOs)
Table 2a – 2b	Imported Backfill Data
Table 3a – 3k	Summary of Recent Sample Data

## **Figures**

Figure 1	Subject Property and Site Map
Figure 2	Areas Where Excavations Were Performed and Consolidation Area
Figure 3	Typical Soil Cover Detail
Figure 4	Remedial Investigation End-Point Sample Locations
Figure 5	Summary of Chromium and Arsenic Detections at Drip Pad Sample Locations
Figure 6	Summary of Chromium and Arsenic Detections at Drip pad Perimeter Sample Locations
Figure 7	Summary of Chromium and Arsenic Detections at Site Perimeter Sample Locations
Figure 8	Summary of Chromium and Arsenic Detections at OSS Sample Locations
Figure 9	Summary of Chromium and Arsenic Detections at Settling Basin and Exit Swale
Figure 10	Drainage Exit Swale Post-Remediation

## **Appendices**

Appendix A	Survey Map, Metes and Bounds
Appendix B	Digital Copy of the FER (Provided on CD)
Appendix C	Environmental Easement & Proof of Filing
Appendix D	Remediation Related Permits and Approvals
Appendix E	Post-Excavation Drainage Swale Sample Results Letter
Appendix F	List of Remedial Activities and Monthly Progress Reports
Appendix G	CAMP Air Monitoring Data (Provided on CD)
Appendix H	Photograph Log
Appendix I	Request to Import Fill Forms
Appendix J	As-Built Drawing

## CERTIFICATIONS

I, Mark P. Millspaugh, P.E., am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Work Plan (RWP) was implemented and that all construction activities were completed in substantial conformance with the New York State Department of Environmental Conservation (NYSDEC) approved RWP.

I certify that the data submitted to the NYSDEC with this Final Engineering Report demonstrates that the remediation requirements set forth in the RWP and in all applicable statutes and regulations have been or will be achieved in accordance with the timeframes, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an Environmental Easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan (SMP) has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site and that the SMP has been approved by the NYSDEC.

I certify that all documents generated in support of this report have been submitted in accordance with the Division of Environmental Remediation's (DER's) electronic submission protocols and have been accepted by the NYSDEC.

I certify that all data generated in support of this report have been submitted in accordance with the NYSDEC's electronic data deliverables and have been accepted by the NYSDEC.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Mark P. Millspaugh, P.E., of Sterling Environmental Engineering, P.C., am certifying as Owner's Designated Site Representative for the Site.



NY PE 059182

NYS Professional Engineer #

7/15/2016

Date

Signature



## LIST OF ACRONYMS

Acronym	Definition
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CAMP	Community Air Monitoring Plan
CCA	Chromated Copper Arsenate
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CPP	Citizen Participation Plan
Cr	Chromium
DER-10	Division of Environmental Remediation/Technical Guidance for Site Investigation and Remediation
DUSR	Data Usability Study Report
ECs	Engineering Controls
EWP	Excavation Work Plan
FER	Final Engineering Report
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
ICs	Institutional Controls
IRM	Interim Remedial Measure
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOL	New York State Department of Labor
OSHA	Occupational Safety and Health Administration
RAOs	Remedial Action Objectives
RD	Remedial Design
RI	Remedial Investigation
RWP	Remedial Work Plan
SCOs	Soil Cleanup Objectives
SEQRA	State Environmental Quality Review Act
SMP	Site Management Plan
SOPs	Site Operations Plans
SWPPP	Stormwater Pollution Prevention Plan
USEPA	United States Environmental Protection Agency

## **1.0 BACKGROUND AND SITE DESCRIPTION**

Northeast Treaters of New York, LLC (Northeast Treaters) entered into a Brownfield Cleanup Agreement (BCA), with the New York State Department of Environmental Conservation (NYSDEC) in December 2014, to investigate and remediate approximately 4.056 acres of the 32.2-acre Northeast Treaters property located at 796 Schoharie Turnpike in the Town of Athens, Greene County, New York. The Northeast Treaters Brownfield Cleanup Program (BCP) Site (“Site”) was remediated to commercial use as described herein and will be used as an industrial wood treatment process and storage facility.

The Site is located in Greene County, New York and is identified on a portion of Athens Tax Map Parcel 104.00-4-44 (see Figure 1). The Site is an approximate 4.056-acre area bounded by Northeast Treaters’ facility stormwater basin to the north, a commercial garage to the south, undeveloped lands of Northeast Treaters to the east, and the Northeast Treaters lumber storage yard to the west (see Figure 1). The boundaries of the Site are more fully described in Appendix A – Survey Map, Metes and Bounds. The owner of the Site parcel at the time of issuance of this Final Engineering Report (FER) is Northeast Treaters.

Remedial activities completed at the Site were conducted in substantial accordance with the NYSDEC-approved Remedial Work Plan (RWP) dated October 2, 2015, the RWP Addendum dated December 7, 2015, and the NYSDEC Decision Document dated December 31, 2015.

An electronic copy of this FER with all supporting documentation is included as Appendix B. A copy of the Environmental Easement and proof of filing is provided in Appendix C.

## **2.0 SUMMARY OF SITE REMEDIATION**

### **2.1 Remedial Action Objectives**

Based on the results of the Remedial Investigation (RI), the following Remedial Action Objectives (RAOs) were identified for this Site.

#### **2.1.1 Soil RAOs**

##### **RAOs for Public Health Protection**

- Prevent ingestion/direct contact with impacted soil.

##### **RAOs for Environmental Protection**

- Prevent migration of contaminants that could result in groundwater or surface water impacts.
- Prevent impacts to biota due to ingestion/direct contact with impacted soil that would cause toxicity or bioaccumulation through the terrestrial food chain.

#### **2.1.2 Sediment RAOs**

##### **RAOs for Public Health Protection**

- Prevent direct contact with impacted sediments.

## **RAOs for Environmental Protection**

- Restore sediments to pre-release/background conditions to the extent feasible.

## **2.2 Description of Selected Remedy**

The factors considered in selecting the remedy are those listed in 6 NYCRR 375-1.8. The elements of the selected remedy are as follows:

### **1. Remedial Design**

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

### **2. Cover System**

A Site cover will be required to allow for commercial use of the Site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the Site development or a soil cover in areas where the upper one (1) foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of one (1) foot of soil placed over a demarcation layer, with the upper six (6) inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the Site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

### **3. Excavation**

Off-site soil which has been impacted by overflow from the stormwater settling basin in excess of residential SCOs, as defined by 6 NYCRR Part 375-6.8, will be excavated. Approximately 45 cubic yards of contaminated soil will be removed and consolidated onsite under the cover system. Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) will be brought in to replace the excavated soil and establish the designed grades at the Site.

#### 4. Removal of all Sediment from Catch Basins

Sediment will be removed from Site-impacted stormwater catch basins on and downstream of the Site. All sediment removed from the catch basins will be consolidated onsite in areas subject to the final cover system or be disposed of in accordance with Federal and NYS regulations.

#### 5. Institutional Control

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or Site owner to complete and submit to the NYSDEC a periodic certification of institutional and engineering controls in accordance with Part 375-1.8(h)(3);
- allow the use and development of the controlled property for commercial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws; and
- require compliance with the NYSDEC approved Site Management Plan.

Note controlled property includes the entire BCP Site as well as "offsite" areas of the greater Northeast Treaters facility which have been impacted by Site-related contamination, including the settling basin and the basin exit swale.

#### 6. Site Management Plan

A Site Management Plan is required, which includes the following:

- A. An Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the Site and offsite area on the greater Northeast Treaters facility that have been impacted by Site-related contamination, details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place. Institutional Controls: The Environmental Easement described in Item 5 above. Engineering Controls: The cover system described above in Item 2. This plan includes, but may not be limited to:
  - an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
  - descriptions of the provisions of the environmental easement including any land use restrictions;
  - provisions for the management and inspection of the identified engineering controls;
  - maintaining Site access controls and NYSDEC notification; and
  - the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.
- B. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
  - monitoring of the soil/sediment downgradient of the settling basin to assess the performance and effectiveness of the remedy; and
  - a schedule of monitoring and frequency of submittals to the NYSDEC.
- C. A Closure Plan for the existing facility stormwater settling basin and any areas downgradient of the basin that may have received contaminated overflow.

### **3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS**

The remedy for this Site was performed as a single project, and no Interim Remedial Measures (IRMs), operable units or separate construction contracts were performed.

### **4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED**

Remedial activities completed at the Site were conducted in substantial accordance with the NYSDEC-approved RWP dated October 2, 2015 and the RWP Addendum dated December 7, 2015. Any deviations from the RWP and RWP Addendum are noted below.

#### **4.1 Governing Documents**

The Site was investigated and remediated in accordance with the BCA executed on December 31, 2014 and governing documents described in the following sections. Remedial activities completed at the Site were conducted in substantial accordance with the NYSDEC-approved RWP dated October 2, 2015, the RWP Addendum dated December 7, 2015, and the NYSDEC Decision Document dated December 31, 2015.

##### **4.1.1 Site Specific Health & Safety Plan (HASP)**

All remedial work performed under this remedial action was the subject of a site-specific Health and Safety Plan (HASP) satisfying the safety requirements mandated by the Federal Occupational Safety and Health Administration (OSHA). Each contractor was responsible for preparing a HASP for its activities and for compliance by its employees. The HASP identifies specific measures to ensure hazardous substances or conditions do not adversely impact the health and safety of construction personnel and the public for Site operations. The HASP also identifies potential hazards and appropriate precautions as defined by OSHA 29 CFR 1910.120 (Hazardous Waste Operations and Emergency Response).

##### **4.1.2 Stormwater Pollution Prevention Plan (SWPPP)**

The remedial work was conducted consistent with the State Pollutant Discharge Elimination System (SPDES) permit requirements set forth in the Construction Activity General Permit (GP-0-15-002). However, as part of the NYSDEC approved remedial program, General Permit coverage is not required provided the construction work is addressed by a Stormwater Pollution Prevention Plan (SWPPP) prepared under current standards and guidance.

The erosion and sediment controls for remedial construction were performed in accordance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control and the Site-specific SWPPP dated December 2015.

##### **4.1.3 Community Air Monitoring Plan (CAMP)**

The Community Air Monitoring Plan (CAMP) provided real-time monitoring of particulates (i.e., dust) at the downwind perimeter of the designated work area when ground-intrusive activities were implemented at the Site. The CAMP was developed from the New York State Department of Health (NYSDOH) Generic CAMP provided in the Division of Remediation DER-10 "Technical Guidance for Site Investigation and Remediation." The CAMP provided a measure of protection for the downwind community (potential receptors including residences, businesses and workers not directly involved with

the subject work activities) from potential airborne Site-related dust as a direct result of remedial and construction work activities. A mist of potable water was used, as needed, to minimize dust around work areas.

#### **4.1.4 Excavation Work Plan (EWP)**

An Excavation Work Plan (EWP) was developed for managing soils/materials that were disturbed at the Site, including excavation, handling, storage, transportation and disposal.

The EWP outlines the methods and procedures, work sequence, and construction management practices to complete soil excavation, consolidation, relocation, and/or disposal in an environmentally responsible fashion, and in conformance with applicable local, State, and Federal regulations.

#### **4.1.5 Contractors Site Operations Plans (SOPs)**

Site Operations Plans (SOPs) are not required for the Site because the Site remedy does not rely on mechanical systems.

The Remediation Engineer reviewed plans and submittals for this remedial project (i.e. Facility Redevelopment Site Plans) and confirmed plans and submittals were in compliance with the RWP and RWP Addendum. Remedial documents were submitted to NYSDEC and NYSDOH in a timely manner.

#### **4.1.6 Citizen Participation Plan (CPP)**

The CPP dated February 2015 describes citizen participation activities including the following:

- Public Notice of the BCP Application was published in the Catskill Daily Mail on October 29, 2014 and distributed to the contact mailing list and the designated document repository. A thirty (30) day public comment period was established by the NYSDEC concerning the BCP Application following the publication of the Public Notice.
- Prior to selection of a remedy for the Site, the NYSDEC issued a Fact Sheet announcing the availability of the RWP and a thirty (30) day comment period spanning from June 4, 2015 through July 21, 2015.
- A Fact Sheet will be published upon issuance of the Certificate of Completion.

### **4.2 Remedial Program Elements**

#### **4.2.1 Contractors and Consultants**

The following contractors and consultants performed the remedial work:

- Sterling Environmental Engineering, P.C. (STERLING) – Engineer of Record, performed environmental sampling, community air monitoring, design of remedy, and construction certification.
- BCI Construction, Inc. (BCI) – Performed all construction work including excavation and consolidation of soils, excavated basin exit swale, implemented Site redevelopment plans, and installed protective cover systems.

- MC Environmental Services, Inc. (MCES) – Performed excavation and consolidation of soils at the direction of BCI, removed impacted sediment from facility catch basins, and collected stockpile soil sample.
- TestAmerica Laboratories, Inc. – Performed analyses of soil samples.
- Alpha Analytical Laboratories, Inc. – Performed analyses of soil, sediment and groundwater samples.
- Alpha Geoscience – Performed third-party validation review of laboratory results and prepared Data Usability Summary Report (DUSR).
- Ostertag Land Surveying, P.C. – Performed Site surveys.

Each contractor and consultant working at the Site was responsible to comply with the HASP with regards to their employees.

#### 4.2.2 Site Preparation

On or about, January 7, 2015, an asbestos survey was conducted by Alpine Environmental Services, Inc. (Alpine), and the asbestos containing material was removed by Alpine in accordance with New York State Department of Labor (NYSDOL) regulations. The following tasks were performed in July and August 2015 in preparation for, and as the initial step in, the remedial program.

- Mobilization of equipment and materials;
- Implementation of perimeter fencing, decontamination pad construction, etc.;
- Installation of a polyethylene sheeting and plywood barrier over the regulated concrete drip pad;
- Placement of a six (6) inch stone subbase to limit exposure of exposed Site fill material;
- Implementation of erosion and sedimentation controls;
- Marking of underground utilities;
- Acquisition of Agency approval and permits:

Agency	Permit/Approval
Town of Athens	Site Plan Building Demolition Building Permit Rezoning
NYSDEC/NYSDOH	EWP CAMP HASP

Documentation of Agency approvals is included in Appendix D. A SWPPP was prepared and submitted to the NYSDEC; however, approval of the SWPPP by the NYSDEC is not required, however the work

performed under the BCP was implemented in accordance with the SWPPP.

All applicable State Environmental Quality Review Act (SEQRA) requirements for site plan review and zoning changes and all substantive compliance requirements for attainment of applicable natural resource or other permits were achieved during this remedial action. The remedial action is not subject to SEQRA.

#### **4.2.3 General Site Controls**

The Site access was secured with temporary construction fencing. Silt fencing was installed and maintained around the perimeter of the Site for erosion control. Equipment was inspected for soil from the Site prior to leaving the Site. A decontamination pad was available onsite for decontaminating vehicle wheels if a vehicle came in contact with impacted soil.

There were no problems encountered with general Site controls during remedial and construction activities.

#### **4.2.4 Nuisance Controls**

STERLING conducted particulate monitoring pursuant to a NYSDEC approved CAMP, and a mist of potable water was used by MCES for dust control when needed. A pressure washer was used to decontaminate equipment before leaving the defined work zone.

The remedial contractor, MCES, established work zones consistent with the HASP at the onset of remedial work. Non-OSHA HAZWOPER trained workers were not allowed access to areas where impacted soil was exposed and barriers (e.g. plywood, polyethylene sheeting, clean stone/soil, etc.) were used to protect workers, as necessary. Excavation and movement of impacted soil was performed only by OSHA-HAZWOPER trained workers. Impacted soil and concrete was temporarily staged in designated areas after being excavated/generated and was covered by polyethylene sheeting.

No complaints relating to nuisance conditions (e.g. dust, odors, noise, traffic) caused by construction activities were received by Northeast Treaters or its representatives during the implementation of the remedial action.

#### **4.2.5 Remediation Work Sequence**

During Site preparation activities discussed in Section 4.2.2, an asbestos survey was conducted by Alpine and all asbestos containing material was removed in accordance with NYSDOL Rule 56 by Alpine. Thereafter, the former process building was triple pressure washed by Northeast Treaters personnel as described in Section 6.1.1 of the RWP, and facility equipment was decontaminated and removed prior to the demolition of the process building. Following Site preparation and building demolition activities, Site soil was excavated by MCES at the direction of BCI to initiate the construction of a new process building.

Specified areas of the existing asphalt pavement and concrete drip pad were saw cut and demolished by MCES with a backhoe-mounted hydraulic jackhammer to allow access for excavation activities. Excavated Site soils and concrete drip pad debris were segregated and staged in designated stockpile areas identified by the EWP. Site soils were further segregated based on composition (i.e. structural fill material and native clay). Impacted Site soil and concrete were used onsite and covered with a protective cover consisting of either the structures such as buildings, pavement, and sidewalks comprising the Site development, or a one (1) foot soil cover which allows for commercial use of the Site. Potable water was used for dust control as needed.



MCES lined excavation areas with polyethylene sheeting and an approximate six (6) inch stone subbase to limit worker exposure to Site soils. Formwork for structural components of the new process building (i.e. frost walls, footers, piers, etc.) was assembled within the lined excavation areas by BCI. Undisturbed portions of the former concrete drip pad were covered by the concrete floor of the new process building and asphalt pavement. The concrete floor of the new process building was also installed over impacted Site soils located to the east of the former drip pad. After the installation of the protective concrete cover, the construction of the new process building was conducted by BCI. During the construction, polyethylene liner was maintained by MCES throughout the building erection sequence.

As part of the remedial work, the areal extent of impacted soils was determined to extend to the adjacent property located to the north and the east of the former process building. In order to address the impacted soils located to the north and the east of the former process building, the adjoining property was purchased, subdivided, cleared, grubbed, and covered with a protective cover. Also, as a part of the remedial work, designated facility catch basins were cleaned by MCES; and the drainage exit swale located downgradient of the existing facility settling basin was excavated by BCI. Post excavation sampling was conducted during the construction of the drainage exit swale and these data are summarized in Appendix E. Management of Site soils generated by these activities is described in Section 4.3 below. Impacted soil removed from facility catch basins and excavated from the drainage exit swale were reused onsite under a protective cover.

Construction road fabric was installed as a demarcation layer beyond the footprint of the new process building and within the footprint of the Site prior to the installation of the Site protective cover described in Section 4.7 below. A list of remedial activities is attached as part of Appendix F.

#### **4.2.6 CAMP Results**

The CAMP was implemented by STERLING during the remedial program from August 2015 through January 2016. As described in Section 4.1.3, CAMP particulate monitoring was conducted upwind and downwind of all ground-intrusive Site activities and activities involving movement or disturbance of impacted soil (e.g. grading, stockpiling, etc.). A Dust Trak II particulate monitor continuously logged data every 60 seconds. Alarm limits were determined based on background levels, measured from an upwind monitoring location. An action level of 150 ug/m<sup>3</sup> (defined as a 15 minute average) was established by the NYSDEC-approved CAMP.

During the implementation of the remedy, a single exceedance of the particulate action level was detected at the downwind monitor on November 24, 2015. STERLING personnel immediately determined that the exceedance of the particulate action level resulted from saw cutting activities associated with the construction of the offsite office building located southwest of the Site.

Visual dust observations were minimal and no action level exceedances were observed or recorded as a result of remedial activities conducted within the boundaries of the Site. Copies of all field data sheets relating to the CAMP are provided in electronic format in Appendix G.

#### **4.2.7 Reporting**

Monthly progress reports were prepared by STERLING and submitted to the NYSDEC to document activities relating to the remedial action. Monthly progress reports are included in electronic format in Appendix F. A photograph log is included in electronic format in Appendix H.

### **4.3 Management of Impacted Materials**

The Site was remediated in accordance with 6 NYCRR Part 375-6.8(b) Commercial SCOs.

A list of SCOs for the contaminants of concern for this project is provided in Table 1. The locations where excavations were performed are shown on Figure 2.

#### **4.3.1 Impacted Soil/Sediment Removal**

Impacted soil was not removed from the Site or the facility property. Impacted soil excavated within the boundaries of the Site was either used as structural backfill around new foundation walls and footings (and capped with concrete) or was consolidated onsite below the protective cover system described in Section 4.7. The horizontal extent of the eight (8) to 12 inch thick concrete pad is shown on the As-Built Drawing provided as Appendix J. Impacted soil/sediment excavated from the settling basin exit swale and sediment removed from facility catch basins were consolidated within the boundaries of the Site and below the protective cover system.

#### **4.3.2 Impacted Soil/Sediment Reuse**

Impacted soil was reused within the boundaries of the Site for structural components associated with Site redevelopment (e.g. structural backfill around new foundation walls and footings). Additionally, impacted sediment, soil and concrete drip pad debris were reused onsite for the installation of a noise abatement berm and to serve as a visual barrier in accordance with the December 7, 2015 RWP Addendum. The location of the berm and placement of impacted media are shown in Figure 3. Impacted soil within the footprint of the noise abatement berm is located below the Site's protective cover consisting of a one (1) foot soil cover which allows for commercial use of the Site and meets the requirements of 6 NYCRR Part 375-6.8(b).

The reuse of impacted media within the boundaries of the Site and below the protective cover system aligns with the concepts of green remediation contained in DER-31. Onsite reuse minimized truck travel for disposal and ultimately saved energy, reduced emissions, and minimized wear and tear on public roads.

### **4.4 Remedial Performance/Documentation Sampling**

Extensive sampling and analysis of soil was performed during the Remedial Investigation (RI) to define the lateral and vertical extent of impact. The sampling and analytical methodology and the results are described in detail in the RI Report dated August 3, 2015. End point samples consist of the soil samples collected during the RI exhibiting concentrations of contaminants of concern less than the Commercial Use SCOs that defined the lateral and vertical extent of impacts. A primary component of the selected remedy is to apply a protective cover over soil containing arsenic and chromium at concentrations greater than the applicable Commercial Use SCOs. The concentrations of these compounds are detailed in the RI Report. End-point sampling data collected during the RI are summarized and included as Figure 4, and all exceedances of the Commercial Use SCOs are highlighted.

Data Usability Summary Reports (DUSRs) were prepared for all data generated during the RI. These DUSRs and associated raw data are provided in the RI Report.

#### **4.5 Imported Backfill**

Approximately 8,000 cubic yards of pre-approved imported backfill was obtained from Halsted Excavating Corp., A Colarusso & Son Inc., and Carver Sand & Gravel, LLC. A table of sources of imported backfill with quantities for each source is shown in Table 2a. Imported backfill was used as a subbase product for the Site's protective cover system. Chemical analysis of imported material from these sources was not conducted because imported material consisted of gravel, rock or stone from a NYSDEC permitted mine or quarry. These materials are exempted from imported fill sampling requirements per DER-10, Section 5.4(e)(5). Request to Import Fill forms were submitted to the NYSDEC (see Appendix I).

Approximately 700 cubic yards of backfill was obtained from the excavation of the Northeast Treaters eastern stormwater basin located on the property north of the Site and used as grading material under the protective cover. A summary of analytical results for backfill obtained from this area, in comparison to allowable levels, is provided in Table 2b.

Imported backfill generally was used over the footprint of the Site as a component of the protective cover system. A Typical Soil Cover Detail is provided as Figure 3.

#### **4.6 Impacted Media Remaining at the Site**

Soil was excavated from portions of the Site within the footprint of the new Process Building to prepare the Site for redevelopment. Excavated impacted soils were either used as structural backfill along foundation walls and frostwalls below the concrete cap or consolidated onsite under the protective cover. As such, arsenic and chromium remain onsite in similar concentrations to those identified in the August 3, 2015 RI Report. Tables 3a through 3k and Figures 5 through 8 summarize the results of soil samples collected during the RI.

Geotextile fabric (Tencate Mirafi® RS580i) was used as a demarcation layer at the Site to delineate the separation between Site soil left in place and the overlying protective cover material installed during the implementation of the remedy.

Soil/sediment containing Site contaminants of concern was excavated from the facility's basin exit swale located downgradient of the facility's western settling basin (see Figure 9). As part of the Site redevelopment, excavated material was used as grading material onsite under the protective cover. Post-excavation samples were collected following excavation of the impacted offsite sediment along the basin exit swale. A reduction in the concentration of chromium and arsenic was observed in post-excavation samples compared to sediment samples collected prior to excavation. Table 3k and Figure 9 summarize the results of offsite sediment samples collected prior to and after completion of the remedial action.

Since impacted soil remains beneath the protective cover system after completion of the remedial action, Institutional and Engineering Controls (ECs/ICs) are required to protect human health and the environment. These ECs/ICs are described in the following sections. Long-term management of these EC/ICs and residual impacts will be performed under the NYSDEC approved SMP.

#### **4.7 Soil Cover System**

Exposure to remaining impacted media at the Site is prevented by a protective cover system placed over the Site. The type of cover differs on different portions of the Site and is comprised of a demarcation geotextile fabric covered by an asphalt pavement profile, concrete structural components, or a minimum

of 12 inches of clean fill. Figure 3 shows the typical cross sections for remedial cover type used on the Site. Figure 3 shows the location of each cover type built at the Site. An EWP, which outlines the procedures required in the event the cover system and/or underlying impacted media are disturbed, is provided as an appendix to the SMP.

#### **4.8 Other Engineering Controls**

The basin exit swale, located downgradient of the facility's western settling basin, was modified as part of the preferred remedy to prevent or minimize the offsite migration of impacted sediment from the settling basin. Figure 10 shows the drainage exit swale following completion of the remedy.

Procedures for monitoring the basin exit swale are provided in the SMP. The SMP also addresses inspection procedures that must occur after any severe weather condition has taken place that may affect onsite ECs.

#### **4.9 Institutional Controls**

The Site remedy requires that an Environmental Easement be placed on the property to (1) implement, maintain and monitor the Engineering Controls (ECs); (2) prevent future exposure to remaining impacted media by controlling disturbances of the subsurface; and, (3) limit the use and development of the Site to commercial uses only.

The Environmental Easement for the Site was executed by the NYSDEC and filed with the Greene County Clerk. The County Recording Identifier number for this filing is provided in Appendix C - Environmental Easement & Proof of Filing.

#### **4.10 Deviations from the Remedial Work Plan**

Remedial activities completed at the Site were conducted in substantial accordance with the NYSDEC-approved RWP dated October 2, 2015 and the RWP Addendum dated December 7, 2015. The October 2, 2015 RWP described key elements of the remedial design (RD) for the remediation of the Site and Site redevelopment. The December 7, 2015 RWP Addendum broadened the scope of the RD to include:

- Cleaning of facility catch basins;
- Excavation of impacted surface soil and sediment in the settling basin exit swale;
- Consolidation and capping of impacted media within the boundaries of the Site; and
- Installation of an abatement berm for noise abatement and as a visual barrier.

The initial RWP and subsequent RWP Addendum proposed onsite consolidation of impacted media and offsite disposal of impacted soil/sediment which was not reused onsite below the protective cover system. During the implementation of the remedy, fill and the underlying natural, clay material excavated from the Site was segregated and staged in separate stockpiles because the fill material was deemed a superior structural aggregate when compared to clay. The natural clay was deemed to be un-impacted based on existing RI data (specifically "DPP" sample location data). With NYSDEC approval, approximately 485 cubic yards of unimpacted, natural clay excavated for the construction of structural building components (i.e. frostwalls, footers, piers, etc.) was reused for grading the surface of the existing facility leachfield located on the Northeast Treaters property, approximately 200 feet north of the Site. The reuse of un-impacted soil within the facility property minimized truck travel for disposal and ultimately saved energy, reduced emissions, and minimized wear and tear on public roads.

The RWP Addendum proposed that the settling basin exit swale would be excavated and lined with course gravel to reduce suspended sediment in effluent water. During the implementation of the remedy, it was determined that a vegetative swale would provide improved sedimentation and allow for more accessible monitoring of potential sediment migration. The construction of a vegetative swale was discussed with, and approved by, the NYSDEC during the excavation of the swale conducted during December 2015.

Field modifications were made to components of Site redevelopment plans based on contractor needs and recommendations. Field modifications to Site redevelopment plans are reflected in the As-Built Drawing provided as Appendix J.

## TABLES

**TABLE 1**

**Commercial Use Soil Cleanup Objectives (SCOs)  
Northeast Treaters of New York, LLC  
796 Schoharie Turnpike, Town of Athens, New York**

<b>Parameter</b>	<b>Soil Cleanup Objectives <sup>(1)</sup> (ppm)</b>
<b>Metals</b>	
Arsenic	16
Barium	400
Beryllium	590
Cadmium	9.3
Chromium (hexavalent)	400
Chromium (trivalent)	1,500
Copper	270
Total Cyanide	27
Lead	1,000
Manganese	10,000
Mercury	2.8
Nickel	310
Selenium	1,500
Silver	1,500
Zinc	10,000

<sup>(1)</sup> As provided in 6 NYCRR Part 375-6.8(b) – Restricted Use Soil Cleanup Objectives

**TABLE 1**

**Commercial Use Soil Cleanup Objectives (SCOs)  
Northeast Treaters of New York, LLC  
796 Schoharie Turnpike, Town of Athens, New York**

<b>Parameter</b>	<b>Soil Cleanup Objectives <sup>(1)</sup> (ppm)</b>
<b>PCBs/Pesticides</b>	
2,4,5-TP Acid (Silvex)	500
4,4'-DDE	62
4,4'-DDT	47
4,4'-DDD	92
Aldrin	0.68
alpha-BHC	3.4
beta-BHC	3
Chlordane (alpha)	24
delta-BHC	500
Dibenzofuran	350
Dieldrin	1.4
Endosulfan I	200
Endosulfan II	200
Endosulfan sulfate	200
Endrin	89
Heptachlor	15
Lindane	9.2
Polychlorinated biphenyls	1

<sup>(1)</sup> As provided in 6 NYCRR Part 375-6.8(b) – Restricted Use Soil Cleanup Objectives



**TABLE 1**

**Commercial Use Soil Cleanup Objectives (SCOs)  
 Northeast Treaters of New York, LLC  
 796 Schoharie Turnpike, Town of Athens, New York**

<b>Parameter</b>	<b>Soil Cleanup Objectives <sup>(1)</sup> (ppm)</b>
<b>SVOCs</b>	
Acenaphthene	500
Acenaphthylene	500
Anthracene	500
Benzo(a)anthracene	5.6
Benzo(a)pyrene	1
Benzo(b)fluoranthene	5.6
Benzo(g,h,i)perylene	500
Benzo(k)fluoranthene	56
Chrysene	56
Dibenz(a,h)anthracene	0.56
Fluoranthene	500
Fluorene	500
Indeno(1,2,3-cd)pyrene	5.6
m-Cresol	500
Naphthalene	500
o-Cresol	500
p-Cresol	500
Pentachlorophenol	6.7
Phenanthrene	500
Phenol	500
Pyrene	500

<sup>(1)</sup> As provided in 6 NYCRR Part 375-6.8(b) – Restricted Use Soil Cleanup Objectives

**TABLE 1**

**Commercial Use Soil Cleanup Objectives (SCOs)  
 Northeast Treaters of New York, LLC  
 796 Schoharie Turnpike, Town of Athens, New York**

<b>Parameter</b>	<b>Soil Cleanup Objectives <sup>(1)</sup> (ppm)</b>
<b>VOCs</b>	
1,1,1-Trichloroethane	500
1,1-Dichloroethane	240
1,1-Dichloroethene	500
1,2-Dichlorobenzene	500
1,2-Dichloroethane	30
cis-1,2-Dichloroethene	500
trans-1,2-Dichloroethene	500
1,3-Dichlorobenzene	280
1,4-Dichlorobenzene	130
1,4-Dioxane	130
Acetone	500
Benzene	44
Butylbenzene	500
Carbon tetrachloride	22
Chlorobenzene	500
Chloroform	350
Ethylbenzene	390
Hexachlorobenzene	6
Methyl ethyl ketone	500
Methyl tert-butyl ether	500
Methylene chloride	500

<sup>(1)</sup> As provided in 6 NYCRR Part 375-6.8(b) – Restricted Use Soil Cleanup Objectives

**TABLE 1**

**Commercial Use Soil Cleanup Objectives (SCOs)  
Northeast Treaters of New York, LLC  
796 Schoharie Turnpike, Town of Athens, New York**

<b>Parameter</b>	<b>Soil Cleanup Objectives <sup>(1)</sup> (ppm)</b>
<b>VOCs (Continued)</b>	
n-Propylbenzene	500
sec-Butylbenzene	500
tert-Butylbenzene	500
Tetrachloroethene	150
Toluene	500
Trichloroethene	200
1,2,4-Trimethylbenzene	190
1,3,5-Trimethylbenzene	190
Vinyl chloride	13
Xylene (mixed)	500

S:\Sterling\Projects\2014 Projects\Northeast Treaters of New York - Athens NY - 2014-08\Reports\Final Engineering Report\Tables\Individual\Table 1 - Soil Cleanup Objectives.doc

<sup>(1)</sup> As provided in 6 NYCRR Part 375-6.8(b) – Restricted Use Soil Cleanup Objectives

**Table 2a: Summary of Imported Backfill  
Northeast Treaters of New York, LLC  
796 Schoharie Turnpike, Town of Athens, New York**

Fill Source	Fill Type	Approximate Quantity (Cubic Yards)	Date of Request to Import Fill Form	Analytical Data
Halsted Excavating Corp. (Mine ID: 40744)	Stone/Gravel/Rock	100 - 200	8/24/2015	Not Required
A. Colarusso & Son Inc. (Permit ID: 4-1040-00034/00025)	Stone/Gravel/Rock	500 - 800	8/28/2015	Not Required
A. Colarusso & Son Inc. (Permit ID: 4-1040-00034/00025)	Stone/Gravel/Rock	800 - 1000	2/18/2016	Not Required
Carver Sand & Gravel, LLC (Registration #: 01W12)	Recycled Concrete Aggregate	6,075	2/18/2016	Not Required
Northeast Treaters of New York, LLC	Native Soil	500 - 800	3/3/2016	See Table 2b

Table 2b: Summary of Imported Backfill Analytical Data  
Northeast Treaters of New York, LLC  
796 Schoharie Turnpike, Town of Athens, New York  
February 23, 2016

SAMPLE ID				G-1	G-2	G-3	G-4	G-5	G-6	C-1	C-2
SAMPLING DATE				2/23/2016	2/23/2016	2/23/2016	2/23/2016	2/23/2016	2/23/2016	2/23/2016	2/23/2016
		Soil Cleanup Objectives									
		Commercial	Unrestricted	Units	Qual	Qual	Qual	Qual	Qual	Qual	Qual
Chlorinated Herbicides by GC - Westborough Lab											
	2,4,5-TP (Silvex)	500	3.8	mg/kg	-	-	-	-	-	0.245 U	0.238 U
General Chemistry - Westborough Lab											
	Chromium, Trivalent	1500	30	mg/kg	-	-	-	-	-	21	20
	Cyanide, Total	27	27	mg/kg	-	-	-	-	-	1.4 U	2.8 U
	Chromium, Hexavalent	400	1	mg/kg	-	-	-	-	-	1.2 U	1.1 U
Organochlorine Pesticides by GC - Westborough Lab											
	Delta-BHC	500	0.04	mg/kg	-	-	-	-	-	0.00226 U	0.00225 U
	Lindane	9.2	0.1	mg/kg	-	-	-	-	-	0.00094 U	0.00094 U
	Alpha-BHC	3.4	0.02	mg/kg	-	-	-	-	-	0.00094 U	0.00094 U
	Beta-BHC	3	0.036	mg/kg	-	-	-	-	-	0.00226 U	0.00225 U
	Heptachlor	15	0.042	mg/kg	-	-	-	-	-	0.00113 U	0.00113 U
	Aldrin	0.68	0.005	mg/kg	-	-	-	-	-	0.00226 U	0.00225 U
	Endrin	89	0.014	mg/kg	-	-	-	-	-	0.00094 U	0.00094 U
	Dieldrin	1.4	0.005	mg/kg	-	-	-	-	-	0.00141 U	0.00141 U
	4,4'-DDE	62	0.0033	mg/kg	-	-	-	-	-	0.00226 U	0.00164 J
	4,4'-DDD	92	0.0033	mg/kg	-	-	-	-	-	0.00226 U	0.00225 U
	4,4'-DDT	47	0.0033	mg/kg	-	-	-	-	-	0.00423 U	0.00422 U
	Endosulfan I	200	2.4	mg/kg	-	-	-	-	-	0.00226 U	0.00225 U
	Endosulfan II	200	2.4	mg/kg	-	-	-	-	-	0.00226 U	0.00225 U
	Endosulfan sulfate	200	2.4	mg/kg	-	-	-	-	-	0.00094 U	0.00094 U
	cis-Chlordane	24	0.094	mg/kg	-	-	-	-	-	0.00282 U	0.00282 U
Polychlorinated Biphenyls by GC - Westborough Lab											
	Aroclor 1016	1	0.1	mg/kg	-	-	-	-	-	0.0468 U	0.0449 U
	Aroclor 1221	1	0.1	mg/kg	-	-	-	-	-	0.0468 U	0.0449 U
	Aroclor 1232	1	0.1	mg/kg	-	-	-	-	-	0.0468 U	0.0449 U
	Aroclor 1242	1	0.1	mg/kg	-	-	-	-	-	0.0468 U	0.0449 U
	Aroclor 1248	1	0.1	mg/kg	-	-	-	-	-	0.0468 U	0.0449 U
	Aroclor 1254	1	0.1	mg/kg	-	-	-	-	-	0.0468 U	0.0449 U
	Aroclor 1260	1	0.1	mg/kg	-	-	-	-	-	0.0468 U	0.0449 U
	Aroclor 1262	1	0.1	mg/kg	-	-	-	-	-	0.0468 U	0.0449 U
	Aroclor 1268	1	0.1	mg/kg	-	-	-	-	-	0.0468 U	0.0449 U
	PCBs, Total			mg/kg	-	-	-	-	-	0.0468 U	0.0449 U
Semivolatile Organics by GC/MS - Westborough Lab											
	Acenaphthene	500	20	mg/kg	-	-	-	-	-	0.19 U	0.18 U
	Hexachlorobenzene	6	0.33	mg/kg	-	-	-	-	-	0.14 U	0.14 U
	Fluoranthene	500	100	mg/kg	-	-	-	-	-	0.14 U	0.14 U
	Naphthalene	500	12	mg/kg	-	-	-	-	-	0.24 U	0.23 U
	Benzo(a)anthracene	5.6	1	mg/kg	-	-	-	-	-	0.14 U	0.14 U
	Benzo(a)pyrene	1	1	mg/kg	-	-	-	-	-	0.19 U	0.18 U
	Benzo(b)fluoranthene	5.6	1	mg/kg	-	-	-	-	-	0.14 U	0.14 U
	Benzo(k)fluoranthene	56	0.8	mg/kg	-	-	-	-	-	0.14 U	0.14 U
	Chrysene	56	1	mg/kg	-	-	-	-	-	0.14 U	0.14 U
	Acenaphthylene	500	100	mg/kg	-	-	-	-	-	0.19 U	0.18 U
	Anthracene	500	100	mg/kg	-	-	-	-	-	0.14 U	0.14 U
	Benzo(ghi)perylene	500	100	mg/kg	-	-	-	-	-	0.19 U	0.18 U
	Fluorene	500	30	mg/kg	-	-	-	-	-	0.24 U	0.23 U
	Phenanthrene	500	100	mg/kg	-	-	-	-	-	0.14 U	0.14 U
	Dibenzo(a,h)anthracene	0.56	0.33	mg/kg	-	-	-	-	-	0.14 U	0.14 U
	Indeno(1,2,3-cd)pyrene	5.6	0.5	mg/kg	-	-	-	-	-	0.19 U	0.18 U
	Pyrene	500	100	mg/kg	-	-	-	-	-	0.14 U	0.14 U
	Dibenzofuran	350	7	mg/kg	-	-	-	-	-	0.24 U	0.23 U
	Pentachlorophenol	6.7	0.8	mg/kg	-	-	-	-	-	0.19 U	0.18 U
	Phenol	500	0.33	mg/kg	-	-	-	-	-	0.24 U	0.23 U
	2-Methylphenol	500	0.33	mg/kg	-	-	-	-	-	0.24 U	0.23 U
	3-Methylphenol/4-Methylphenol	500	0.33	mg/kg	-	-	-	-	-	0.1 J	0.33 U
Total Metals - Westborough Lab											
	Arsenic, Total	16	13	mg/kg	-	-	-	-	-	8.2	7.8
	Barium, Total	400	350	mg/kg	-	-	-	-	-	120	120
	Beryllium, Total	590	7.2	mg/kg	-	-	-	-	-	1	0.91
	Cadmium, Total	9.3	2.5	mg/kg	-	-	-	-	-	1.1 U	1.1 U
	Chromium, Total			mg/kg	-	-	-	-	-	21	20
	Copper, Total	270	50	mg/kg	-	-	-	-	-	18	18
	Lead, Total	1000	63	mg/kg	-	-	-	-	-	9.1	7.6
	Manganese, Total	10000	1600	mg/kg	-	-	-	-	-	680	780
	Mercury, Total	2.8	0.18	mg/kg	-	-	-	-	-	0.085 J	0.06 J
	Nickel, Total	310	30	mg/kg	-	-	-	-	-	20	20
	Selenium, Total	1500	3.9	mg/kg	-	-	-	-	-	1 J	0.98 J
	Silver, Total	1500	2	mg/kg	-	-	-	-	-	1.1 U	1.1 U
	Zinc, Total	10000	109	mg/kg	-	-	-	-	-	57	56
Volatile Organics by GC/MS - Westborough Lab											
	Methylene chloride	500	0.05	mg/kg	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.014 U	- - - -
	1,1-Dichloroethane	240	0.27	mg/kg	0.0023 U	0.0022 U	0.0022 U	0.0022 U	0.0023 U	0.0021 U	- - - -
	Chloroform	350	0.37	mg/kg	0.0023 U	0.0022 U	0.0022 U	0.0022 U	0.0023 U	0.0021 U	- - - -
	Carbon tetrachloride	22	0.76	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	Tetrachloroethene	150	1.3	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	Chlorobenzene	500	1.1	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	1,2-Dichloroethane	30	0.02	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	1,1,1-Trichloroethane	500	0.68	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	Benzene	44	0.06	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	Toluene	500	0.7	mg/kg	0.0023 U	0.0022 U	0.0022 U	0.0022 U	0.0023 U	0.0021 U	- - - -
	Ethylbenzene	390	1	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	Vinyl chloride	13	0.02	mg/kg	0.0031 U	0.0029 U	0.0029 U	0.003 U	0.003 U	0.0029 U	- - - -
	1,1-Dichloroethene	500	0.33	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	trans-1,2-Dichloroethene	500	0.19	mg/kg	0.0023 U	0.0022 U	0.0022 U	0.0022 U	0.0023 U	0.0021 U	- - - -
	Trichloroethene	200	0.47	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	1,2-Dichlorobenzene	500	1.1	mg/kg	0.0076 U	0.0073 U	0.0074 U	0.0074 U	0.0075 U	0.0072 U	- - - -
	1,3-Dichlorobenzene	280	2.4	mg/kg	0.0076 U	0.0073 U	0.0074 U	0.0074 U	0.0075 U	0.0072 U	- - - -
	1,4-Dichlorobenzene	130	1.8	mg/kg	0.0076 U	0.0073 U	0.0074 U	0.0074 U	0.0075 U	0.0072 U	- - - -
	Methyl tert butyl ether	500	0.93	mg/kg	0.0031 U	0.0029 U	0.0029 U	0.003 U	0.003 U	0.0029 U	- - - -
	p/m-Xylene			mg/kg	0.0031 U	0.0029 U	0.0029 U	0.003 U	0.003 U	0.0029 U	- - - -
	o-Xylene			mg/kg	0.0031 U	0.0029 U	0.0029 U	0.003 U	0.003 U	0.0029 U	- - - -
	cis-1,2-Dichloroethene	500	0.25	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	Acetone	500	0.05	mg/kg	0.0087 J	0.004 J	0.003 J	0.0049 J	0.0051 J	0.073	- - - -
	2-Butanone	500	0.12	mg/kg	0.015 U	0.015 U	0.015 U	0.015 U	0.015 U	0.0088 J	- - - -
	n-Butylbenzene	500	12	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	sec-Butylbenzene	500	11	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	tert-Butylbenzene	500	5.9	mg/kg	0.0076 U	0.0073 U	0.0074 U	0.0074 U	0.0075 U	0.0072 U	- - - -
	n-Propylbenzene	500	3.9	mg/kg	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0014 U	- - - -
	1,3,5-Trimethylbenzene	190	8.4	mg/kg	0.0076 U	0.0073 U	0.0074 U	0.0074 U	0.0075 U	0.0072 U	- - - -
	1,2,4-Trimethylbenzene	190	3.6	mg/kg	0.0076 U	0.0073 U	0.0074 U	0.0074 U	0.0075 U	0.0072 U	- - - -
	1,4-Dioxane	130	0.1	mg/kg	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.14 U	- - - -

Notes:  
Values highlighted in yellow indicate exceedance of Unrestricted Use Soil Cleanup Objectives.  
Values highlighted in gray indicate that the laboratory's method detection limit exceeds the Unrestricted Use Soil Cleanup Objectives.

Lab Qualifiers:  
U = Not detected above the laboratory method detection limit shown.  
J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit, and the concentration is an approximate value.

Table 3a: Analytical Results for Full Parameter Sampling  
Northeast Treaters of New York, LLC  
796 Schoharie Turnpike,Town of Athens, New York  
November 18-20, 2014

		Sample ID Sample Matrix Date Sampled		SP01S Fill 11/18/2014	SP02S Fill 11/18/2014	SP03S Fill 11/18/2014	SP04S Fill 11/18/2014	SP05S Fill 11/18/2014	SP05D Fill 11/18/2014	SP06S Fill 11/19/2014	SP06D Fill 11/19/2014	DPP02ES Fill 11/18/2014	DPP05ES Fill 11/18/2014	DPP08ES Fill 11/18/2014	DPP10ES Fill 11/19/2014	DPP13ES Fill 11/19/2014	DPP16ES Fill 11/18/2014	SUMP FILL Soil 11/19/2014	SUMP Clay Soil 11/19/2014	DP01 FILL Fill 11/20/2014	DP01 Clay Soil 11/20/2014	DP03 FILL Fill 11/19/2014	DP03 Clay Soil 11/19/2014
Soil Cleanup Objectives																							
Semivolatiles (µg/kg)	Unrestricted	Commercial	Industrial																				
Acenaphthene	20,000	500,000	1,000,000	14 U	14 U	13 U	14 U	14 U	17 U	19 U	13 U	14 U	14 U	14 U	16 U	16 U	14 U	17 U	17 U	14 U	16 U	17 U	18 U
Acenaphthylene	100,000	500,000	1,000,000	16 U	16 U	15 U	16 U	16 U	20 U	22 U	16 U	16 U	16 U	16 U	18 U	18 U	16 U	19 U	19 U	17 U	19 U	20 U	21 U
Anthracene	100,000	500,000	1,000,000	15 U	15 U	14 U	15 U	15 U	18 U	20 U	15 U	15 U	15 U	71 J	17 U	17 U	15 U	18 U	18 U	16 U	18 U	19 U	20 U
Benzo[a]anthracene	1,000	5,600	11,000	14 U	14 U	13 U	14 U	14 U	17 U	19 U	13 U	14 U	14 U	1700	16 U	16 U	14 U	17 U	17 U	14 U	16 U	17 U	18 U
Benzo[a]pyrene	1,000	1,000	1,100	13 U	13 U	12 U	13 U	13 U	16 U	17 U	12 U	13 U	13 U	790	15 U	15 U	13 U	15 U	15 U	13 U	15 U	16 U	17 U
Benzo[b]fluoranthene	1,000	5,600	11,000	25 U	25 U	24 U	25 U	25 U	30 U	33 U	24 U	25 U	25 U	1800	28 U	28 U	25 U	30 U	29 U	25 U	29 U	31 U	32 U
Benzo[g,h,i]perylene	100,000	500,000	1,000,000	14 U	14 U	13 U	14 U	14 U	17 U	19 U	13 U	14 U	14 U	420	16 U	16 U	14 U	17 U	17 U	14 U	16 U	17 U	18 U
Benzo[k]fluoranthene	800	56,000	110,000	32 U	32 U	31 U	32 U	32 U	39 U	43 U	31 U	32 U	32 U	1500	36 U	37 U	33 U	39 U	38 U	33 U	38 U	40 U	42 U
Chrysene	1,000	56,000	110,000	19 U	19 U	18 U	19 U	19 U	24 U	26 U	19 U	19 U	19 U	1800	22 U	22 U	20 U	23 U	23 U	20 U	23 U	24 U	25 U
Dibenz[a,h]anthracene	330	560	1,100	12 U	12 U	11 U	12 U	12 U	14 U	16 U	11 U	12 U	12 U	140 J	13 U	13 U	12 U	14 U	14 U	12 U	14 U	15 U	15 U
Fluoranthene	100,000	500,000	1,000,000	13 U	13 U	12 U	40 J	13 U	16 U	17 U	12 U	13 U	53 J	2600	15 U	15 U	13 U	15 U	15 U	13 U	15 U	16 U	17 U
Fluorene	30,000	500,000	1,000,000	16 U	16 U	15 U	16 U	16 U	20 U	22 U	16 U	16 U	16 U	16 U	18 U	18 U	16 U	19 U	19 U	17 U	19 U	20 U	21 U
Indeno[1,2,3-cd]pyrene	500	5,600	11,000	15 U	15 U	14 U	15 U	15 U	18 U	20 U	15 U	15 U	15 U	440	17 U	17 U	15 U	18 U	18 U	16 U	18 U	19 U	20 U
m & p - Cresol	330	500,000	1,000,000	79 U	79 U	76 U	79 U	79 U	97 U	110 U	77 U	79 U	80 U	80 U	89 U	90 U	80 U	95 U	94 U	82 U	93 U	99 U	100 U
Naphthalene	12,000	500,000	1,000,000	16 U	16 U	15 U	16 U	16 U	20 U	22 U	16 U	16 U	16 U	16 U	18 U	18 U	16 U	19 U	19 U	17 U	19 U	20 U	21 U
o-Cresol	330	500,000	1,000,000	43 U	43 U	41 U	43 U	43 U	52 U	58 U	41 U	43 U	43 U	43 U	48 U	49 U	43 U	51 U	51 U	44 U	51 U	54 U	56 U
Pentachlorophenol	800	6,700	55,000	72 U	73 U	70 U	73 U	73 U	89 U	98 U	71 U	73 U	73 U	73 U	82 U	83 U	74 U	87 U	87 U	75 U	86 U	91 U	95 U
Phenanthrene	100,000	500,000	1,000,000	13 U	13 U	12 U	13 U	13 U	16 U	17 U	12 U	13 U	13 U	340 J	15 U	15 U	13 U	15 U	15 U	13 U	15 U	16 U	17 U
Phenol	330	500,000	1,000,000	43 U	43 U	41 U	43 U	43 U	52 U	58 U	41 U	43 U	43 U	43 U	48 U	49 U	43 U	51 U	51 U	44 U	51 U	54 U	56 U
Pyrene	100,000	500,000	1,000,000	15 U	15 U	14 U	15 U	15 U	18 U	20 U	15 U	15 U	49 J	2500	17 U	17 U	15 U	18 U	18 U	16 U	18 U	19 U	20 U

Volatiles (µg/kg)	Soil Cleanup Objectives			Sample ID Sample Matrix Date Sampled	SP01S Fill 11/18/2014	SP02S Fill 11/18/2014	SP03S Fill 11/18/2014	SP04S Fill 11/18/2014	SP05S Fill 11/18/2014	SP05D Fill 11/18/2014	SP06S Fill 11/19/2014	SP06D Fill 11/19/2014	DPP02ES Fill 11/18/2014	DPP05ES Fill 11/18/2014	DPP08ES Fill 11/18/2014	DPP10ES Fill 11/19/2014	DPP13ES Fill 11/19/2014	DPP16ES Fill 11/18/2014	SUMP FILL Fill 11/19/2014	SUMP Clay Soil 11/19/2014	DP01 FILL Fill 11/20/2014	DP01 Clay Soil 11/20/2014	DP03 FILL Fill 11/19/2014	DP03 Clay Soil 11/19/2014
	Unrestricted	Commercial	Industrial																					
1,1,1-Trichloroethane	680	500,000	1,000,000	0.25 U * E	0.35 U	0.35 U	0.39 U	0.27 U		16 U	0.43 U	0.25 U	0.29 U	0.39 U	0.35 U	0.36 U	0.27 U	0.29 U	0.37 U	0.33 U	0.29 U	0.32 U	0.37 U	0.35 U
1,1-Dichloroethane	270	240,000	480,000	0.36 U * E	0.50 U	0.50 U	0.57 U	0.39 U		16 U	0.63 U	0.36 U	0.42 U	0.56 U	0.51 U	0.52 U	0.38 U	0.42 U	0.53 U	0.48 U	0.42 U	0.46 U	0.53 U	0.51 U
1,1-Dichloroethene	330	500,000	1,000,000	0.22 U * E	0.31 U	0.31 U	0.36 U	0.24 U		17 U	0.39 U	0.23 U	0.26 U	0.35 U	0.32 U	0.32 U	0.24 U	0.26 U	0.33 U	0.30 U	0.26 U	0.29 U	0.33 U	0.32 U
1,2-Dichlorobenzene	1,100	500,000	1,000,000	0.10 U * E	0.15 U	0.15 U * E	0.17 U * E	0.11 U * E		16 U	0.18 U	0.10 U	0.12 U	0.16 U * E	0.15 U	0.15 U * E	0.11 U * E	0.12 U	0.15 U	0.14 U	0.12 U	0.13 U	0.15 U	0.15 U
1,2-Dichloroethane	20	30,000	60,000	0.69 U * E	0.98 U	0.97 U	1.1 U	0.75 U		13 U	1.2 U	0.70 U	0.82 U	1.1 U	0.99 U	1.0 U	0.74 U	0.82 U	1.0 U	0.93 U	0.81 U	0.90 U	1.0 U	0.99 U
cis-1,2-Dichloroethene	250	500,000	1,000,000	0.34 U * E	0.48 U	0.48 U	0.55 U	0.37 U		14 U	0.60 U	0.35 U	0.41 U	0.54 U	0.49 U	0.49 U	0.37 U	0.40 U	0.51 U	0.46 U	0.40 U	0.44 U	0.51 U	0.49 U
trans-1,2-Dichloroethene	190	500,000	1,000,000	0.066 U * E	0.093 U	0.093 U	0.11 U	0.071 U		16 U	0.12 U	0.067 U	0.078 U	0.10 U	0.094 U	0.095 U	0.071 U	0.078 U	0.098 U	0.088 U	0.078 U	0.086 U	0.098 U	0.095 U
1,3-Dichlorobenzene	2,400	280,000	560,000	0.088 U * E	0.12 U	0.12 U * E	0.14 U * E	0.095 U * E		15 U	0.15 U	0.089 U	0.094 U * E	0.12 U	0.13 U * E	0.094 U * E	0.10 U	0.13 U	0.13 U	0.12 U	0.10 U	0.11 U	0.13 U	0.13 U
1,4-Dichlorobenzene	1,800	130,000	250,000	0.30 U * E	0.43 U	0.42 U * E	0.48 U * E	0.33 U * E		15 U	0.53 U	0.31 U	0.36 U	0.48 U * E	0.43 U	0.44 U * E	0.32 U * E	0.36 U	0.45 U	0.40 U	0.36 U	0.39 U	0.45 U	0.43 U
1,4-Dioxane	100	130,000	250,000	11 U * E	16 U	16 U	18 U	12 U		880 U	19 U	11 U	13 U	18 U	16 U	16 U	12 U	13 U	15 U	13 U	14 U	16 U	16 U	16 U
Acetone	50	500,000	1,000,000	6.5 B * ND E	6.3 B ND	7.6	7.0	8.5		140 J B ND	5.7 U	5.4 B	4.7 B ND	5.9 J	8.3	7.4 B	3.6 J B	14 B ND	12 B	18 B	15 B	17 B	23 B	20 B ND
Benzene	60	44,000	89,000	0.34 U * E	0.48 U	0.48 U	0.55 U	0.37 U		17 U	0.60 U	0.49 U	0.37 U	0.87 J	0.49 U	0.37 U	0.40 U	0.60 J	0.46 U	0.40 U	0.44 U	0.51 U	0.49 U	0.49 U
n-Butylbenzene	12,000	500,000	1,000,000	0.21 U * E	0.29 U	1.9 J * E	0.33 U * E	0.22 U * E		15 U	0.36 U	0.21 U	0.25 U	0.33 U * E	0.29 U	0.30 U * E	0.22 U * E	0.24 U	0.31 U	0.28 U	0.24 U	0.27 U	0.31 U	0.30 U
Carbon tetrachloride	760	22,000	44,000	0.043 U * E	0.061 U	0.060 U	0.069 U	0.046 U		12 U	0.075 U	0.044 U	0.051 U	0.068 U	0.061 U	0.062 U	0.046 U	0.051 U	0.064 U	0.057 U	0.051 U	0.056 U	0.064 U	0.060 U
Chlorobenzene	1,100	500,000	1,000,000	0.088 U * E	0.12 U	0.12 U * E	0.14 U	0.095 U		16 U	0.15 U	0.089 U	0.10 U	0.14 U	0.12 U	0.13 U	0.094 U * E	0.10 U	0.13 U	0.12 U	0.10 U	0.11 U	0.13 U	0.13 U
Chloroform	370	350,000	700,000	0.35 U * E	0.49 U	0.49 U	0.56 U	0.38 U		15 U	0.61 U	0.55 U	0.38 U	0.55 U	0.50 U	0.51 U	0.38 U	0.41 U	0.52 U	0.47 U	0.41 U	0.45 U	0.52 U	0.50 U
Ethylbenzene	1,000	390,000	780,000	0.054 U * E	0.076 U	0.076 U * E	0.087 U	0.058 U		16 U	0.095 U	0.055 U	0.064 U	0.085 U	0.077 U	0.078 U	0.058 U * E	0.064 U	1.8 J	0.072 U	41	0.070 U	2.2 J	0.078 U
Hexachlorobenzene	330	6,000	12,000	49 U E	49 U	47 U	49 U	49 U		60 U	67 U	48 U	49 U	50 U	49 U	56 U	56 U	50 U	59 U	59 U	51 U	58 U	62 U	65 U
Methyl Ethyl Ketone	120	500,000	1,000,000	1.8 U * E	2.5 U	2.5 U	2.8 U	1.9 U		68 U	3.1 U	1.8 U	2.1 U	2.8 U	2.5 U	2.5 U	2.5 J	2.6 U	5.8	5.4	3.3 J	4.2 J	5.9	
Methyl tert-butyl ether	930	500,000	1,000,000	0.27 U * E	0.38 U	0.38 U	0.43 U	0.29 U		14 U	0.39 U	0.27 U	0.32 U	0.43 U	0.39 U	0.39 U	0.29 U	0.32 U	0.40 U	0.36 U	0.32 U	0.35 U	0.40 U	0.39 U
Methylene Chloride	50	500,000	1,000,000	0.80 J B * ND E	0.63 J B ND	0.79 J B ND	0.76 J B ND	0.48 U		21 U	1.4 J B ND	0.45 U	0.55 J B ND	0.70 U	0.65 J B ND	0.90 J B ND	0.49 J B ND	0.52 U	0.66 U	0.60 U	0.77 J B	0.58 U	0.87 J B ND	0.71 J B ND
N-Propylbenzene	3,900	500,000	1,000,000	0.25 U * E	0.35 U	0.35 U * E	0.39 U * E	0.27 U * E		16 U	0.43 U	0.25 U	0.29 U	0.39 U * E	0.35 U	0.36 U * E	0.27 U * E	0.29 U	0.37 U	0.33 U	0.35 J	0.32 U	0.37 U	0.35 U
sec-Butylbenzene	11,000	500,000	1,000,000	0.088 U * E	0.12 U	1.8 J * E	0.14 U * E	0.095 U * E		15 U	0.15 U	0.089 U	0.10 U	0.14 U * E	0.12 U	0.13 U * E	0.094 U * E	0.10 U	0.13 U	0.12 U	0.10 U	0.11 U	0.13 U	0.13 U
tert-Butylbenzene	5,900	500,000	1,000,000	0.20 U * E	0.28 U	0.28 U * E	0.32 U * E	0.21 U * E		14 U	0.35 U	0.20 U	0.24 U	0.31 U * E	0.28 U	0.29 U * E	0.21 U * E	0.23 U	0.29 U	0.27 U	0.23 U	0.26 U	0.29 U	0.29 U
Tetrachloroethene	1,300	150,000	300,000	0.23 U * E	0.33 U	0.32 U * E	0.37 U	0.25 U		16 U	0.40 U	0.23 U	0.27 U	0.36 U	0.33 U	0.33 U	0.25 U * E	0.27 U	0.34 U	0.31 U	0.27 U	0.30 U	0.34 U	0.33 U
Toluene	700	500,000	1,000,000	0.30 J * E	0.21 U	1.2 J * E	0.24 U	0.16 U		16 U	0.26 U	0.15 U	0.18 U	0.89 J	0.22 U	0.70 J	1.1 J * E	0.18 U	3.0 J	0.20 U	1.5 J	0.20 U	0.92 J	0.25 J
Trichloroethene	470	200,000	400,000	0.45 U * E	0.64 U	0.64 U	0.73 U	0.49 U		13 U	0.65 U	0.46 U	0.54 U	0.72 U	0.65 U	0.66 U	0.49 U	0.53 U	0.67 U	0.61 U	0.59 U	0.67 U	0.65 U	
1,2,4-Trimethylbenzene	3,600	190,000	380,000	0.096 U * E	0.13 U	2.6 J * E	0.15 U * E	0.10 U * E		14 U	0.17 U	0.097 U	0.11 U	0.15 U * E	0.14 U	0.14 U * E	0.10 U * E	0.17 J	0.24 J	0.13 U	0.61 J	0.12 U	0.36 J	0.14 U
1,3,5-Trimethylbenzene	8,400	190,000	380,000	0.18 U * E	0.25 U	0.25 U * E	0.28 U * E	0.19 U * E		14 U	0.31 U	0.18 U	0.21 U	0.28 U * E	0.25 U	0.25 U * E	0.19 U * E	0.21 U	0.26 U	0.23 U	0.30 J	0.23 U	0.26 U	0.25 U
Vinyl chloride	20	13,000	27,000	0.53 U * E	0.74 U	0.74 U	0.84 U	0.57 U		16 U *	0.92 U	0.53 U	0.62 U	0.83 U	0.75 U	0.76 U	0.56 U	0.62 U	0.78 U	0.70 U	0.62 U	0.68 U	0.78 U	0.75 U
Xylenes, Total	260	500,000	1,000,000	0.042 U * E	0.059 U	0.059 U * E	0.067 U	0.046 U		17 U	0.074 U	0.043 U	0.050 U	0.067 U	0.060 U	0.061 U	0.045 U * E	0.050 U	13	0.056 U	270	0.60 J	12	0.060 U

Table 3a: Analytical Results for Full Parameter Sampling  
Northeast Treaters of New York, LLC  
796 Schoharie Turnpike,Town of Athens, New York  
November 18-20, 2014

				Sample ID Sample Matrix Date Sampled	SP01S Fill 11/18/2014	SP02S Fill 11/18/2014	SP03S Fill 11/18/2014	SP04S Fill 11/18/2014	SP05S Fill 11/18/2014	SP05D Soil 11/18/2014	SP06S Fill 11/19/2014	SP06D Soil 11/19/2014	DPP02ES Fill 11/18/2014	DPP05ES Fill 11/18/2014	DPP08ES Fill 11/18/2014	DPP10ES Fill 11/19/2014	DPP13ES Fill 11/19/2014	DPP16ES Fill 11/18/2014	SUMP FILL Fill 11/19/2014	SUMP Clay Soil 11/19/2014	DP01 FILL Fill 11/20/2014	DP01 Clay Soil 11/20/2014	DP03 FILL Fill 11/19/2014	DP03 Clay Soil 11/19/2014	
				Soil Cleanup Objectives																					
Pesticides (µg/kg)																									
	Unrestricted	Commercial	Industrial																						
Silvex (2,4,5-TP)	3,800	500,000	1,000,000	6.3 U	6.4 U	6.3 U	6.2 U	6.3 U	7.7 U	8.3 U	6.3 U	6.4 U	6.4 U	6.4 U	7.1 U	7.1 U	6.4 U	7.7 U	7.6 U	6.5 U	7.4 U	7.9 U	8.1 U		
4,4'-DDE	3.3	62,000	120,000	36 U	3.8 U	3.7 U	3.6 U	0.36 U	0.44 U	25 U	0.36 U	19 U	0.37 U	0.36 U	42 U	20 U	19 U	0.45 U	0.44 U	0.37 U	0.42 U	0.76 J E	0.48 U		
4,4'-DDT	3.3	47,000	94,000	41 U	4.2 U	4.1 U	4.0 U	0.41 U	0.50 U	28 U	0.40 U	21 U	0.41 U	0.41 U	47 U	23 U	21 U	2.1 E	0.50 U	0.41 U	0.47 U	0.52 U	0.53 U		
4,4'-DDD	3.3	92,000	180,000	34 U	3.5 U	3.4 U	3.3 U	0.34 U	0.41 U	23 U	0.33 U	17 U	0.34 U	0.34 U	39 U	19 U	17 U	0.41 U	0.41 U	0.34 U	0.39 U	0.43 U	0.44 U		
Aldrin	5.0	680	1,400	43 U	4.4 U	4.3 U	4.2 U	0.43 U	0.52 U	29 U	0.42 U	22 U	0.44 U	0.43 U	49 U	24 U	22 U	0.53 U	0.52 U	0.44 U	0.50 U	0.54 U	0.56 U		
alpha-BHC	20	3,400	6,800	31 U	3.2 U	4.9 J B ND	3.1 U	1.5 J B ND	0.84 J B ND	21 U	1.2 J B ND	16 U	3.1 B ND	2.6 B ND	36 U	17 U	16 U	1.5 J B ND	1.2 J B ND	0.51 J	0.88 J	1.4 J B ND	1.3 J B ND		
beta-BHC	36	3,000	14,000	31 U	3.2 U	3.1 U	3.1 U	0.31 U	0.38 U	21 U	0.31 U	16 U	1.8 R	1.9 R	36 U	17 U	16 U	0.38 U	0.38 U	0.32 U	0.36 U	0.40 U	2.7		
alpha-Chlordane	94	24,000	47,000	86 U	9.0 U	8.7 U	8.5 U	0.86 U	1.1 U	59 U	0.86 U	44 U	0.88 U	0.86 U	99 U	48 U	44 U	1.1 U	1.1 U	0.88 U	1.0 U	1.1 U	1.1 U		
delta-BHC	40	500,000	1,000,000	32 U	3.3 U	3.2 U	3.2 U	0.43 J	0.39 U	22 U	0.32 U	17 U	0.49 J JN	0.65 J R	37 U	18 U	17 U	0.40 U	0.39 U	0.33 U	0.38 U	0.41 U	0.42 U		
Dibenzofuran	7,000	350,000	1,000,000	17 U	17 U	16 U	17 U	17 U	21 U	23 U	17 U	17 U	17 U	17 U	19 U	20 U	17 U	21 U	20 U	18 U	20 U	21 U	22 U		
Dieldrin	5.0	1,400	2,800	42 U	4.3 U	4.2 U	4.1 U	0.42 U	0.51 U	28 U	0.41 U	21 U	0.43 U	0.42 U	48	23 U	21 U	0.51 U	0.51 U	0.43 U	0.49 U	0.53 U	0.54 U		
Endosulfan I	2,400	200,000	920,000	33 U	3.5 U	3.3 U	3.3 U	0.33 U	0.41 U	23 U	0.33 U	17 U	0.34 U	0.33 U	38 U	19 U	17 U	0.41 U	0.41 U	0.34 U	0.39 U	0.42 U	0.44 U		
Endosulfan II	2,400	200,000	920,000	31 U	3.2 U	3.1 U	3.1 U	0.31 U	0.38 U	21 U	0.31 U	16 U	0.32 U	0.31 U	36 U	17 U	16 U	0.38 U	0.38 U	0.32 U	0.36 U	0.40 U	0.41 U		
Endosulfan sulfate	2,400	200,000	920,000	32 U	3.4 U	3.2 U	3.2 U	0.32 U	0.40 U	22 U	0.32 U	17 U	0.33 U	0.32 U	37 U	18 U	17 U	0.40 U	0.40 U	0.33 U	0.38 U	0.41 U	0.42 U		
Endrin	14	89,000	410,000	34 U	3.6 U	3.4 U	3.4 U	0.34 U	0.42 U	23 U	0.34 U	18 U	0.35 U	0.34 U	40 U	19 U	18 U	0.42 U	0.42 U	0.35 U	0.40 U	0.44 U	0.45 U		
Heptachlor	42	15,000	29,000	38 U	3.9 U	3.8 U	3.7 U	0.38 U	0.46 U	25 U	0.37 U	19 U	0.38 U	0.38 U	43 U	21 U	19 U	0.46 U	0.46 U	0.38 U	0.44 U	0.48 U	0.49 U		
gamma-BHC (Lindane)	100	9,200	23,000	32 U	3.3 U	3.2 U	3.1 U	0.32 U	0.39 U	22 U	0.32 U	16 U	0.46 J	0.32 U	37 U	18 U	16 U	0.39 U	0.39 U	0.33 U	0.37 U	0.40 U	0.42 U		

				Sample ID Sample Media Date Sampled	SP01S Fill 11/18/2014	SP02S Fill 11/18/2014	SP03S Fill 11/18/2014	SP04S Fill 11/18/2014	SP05S Fill 11/18/2014	SP05D Fill 11/18/2014	SP06S Fill 11/19/2014	SP06D Fill 11/19/2014	DPP02ES Fill 11/18/2014	DPP05ES Fill 11/18/2014	DPP08ES Fill 11/18/2014	DPP10ES Fill 11/19/2014	DPP13ES Fill 11/19/2014	DPP16ES Fill 11/18/2014	SUMP FILL Fill 11/19/2014	SUMP Clay Soil 11/19/2014	DP01 FILL Fill 11/20/2014	DP01 Clay Soil 11/20/2014	DP03 FILL Fill 11/19/2014	DP03 Clay Soil 11/19/2014						
				Soil Cleanup Objectives																										
				Unrestricted	Commercial	Industrial																								
Metals (mg/kg)																														
Arsenic, Total Recoverable				13	16	16	18.7 E	19.1 E	27.0 E	10.5 E	13.1 E	7.7 E	18.8 E	6.5 E	76.4 E	40.4 E	46.3 E	17.7 E	28.9 E	46.5 E	333 E	74.3 E	641 E	14.5 E	401 E	8.7 E				
Barium, Total Recoverable				350	400	10,000	103 E	89.1 E	78.8 E	90.8 E	107 E	488 E	75.9 E	126 E	64.5 E	37.5 E	64.0 E	83.6 E	71.8 E	81.0 E	84.5 E	157 E	65.7 E	211 E	325 E	224 E				
Beryllium, Total Recoverable				7.2	590	2,700	0.35	0.48	0.56	0.57	0.52	1.7	0.55	1.1	0.61	0.52	0.59	0.46	0.66	0.49	0.69	1.4	0.59	1.3	0.51	1.5				
Cadmium, Total Recoverable				2.5	9.3	60	0.44	0.51	0.77	0.56	0.67	0.76	0.63	0.59	1.3	0.85	0.97	0.56	0.70	0.84	4.3	1.6	2.5	0.051 J	6.0	0.75				
Chromium, hexavalent				1.0	400	800	0.70 J	0.29 U	0.29 U	0.28 U	0.28 U	0.35 U	1.2 E	0.29 U	0.38 J	0.65 J	1.1	0.33 U	0.32 U	0.82 J	5.2	0.35 U	2.0	0.34 U	0.86 J	0.37 U				
Chromium, trivalent				30	1,500	6,800	9.6	17.4	26.8	16.8	13.7	30.7	25.4	23.5	62.1	36.4	39.4	20.6	32.9	40.9	161	169	614	35.9	97.8	31.8				
Chromium, Total Recoverable				-	-	-	10.3 E	17.4 E	26.8 E	16.8 E	13.7 E	30.7 E	26.6	23.5	62.4 E	37.1 E	40.5 E	20.6	32.9	41.7 E	166 E	169 E	616 E	35.9 E	98.6 E	31.8 E				
Copper, Total Recoverable				50	270	10,000	17.2 E	47.9 E	45.0 E	23.6 E	33.1 E	36.9 E	27.2 E	26.8 E	78.1 E	80.6 E	82.5 E	26.3 E	32.1 E	36.5 E	424 E	98.3 E	358 E	35.6 E	225 E	34.0 E				
Cyanide, Total				27	27	10,000	0.48 U E	0.52 U E	0.51 U E	0.49 U E	3.0 E	0.63 U E	0.66 U E	0.49 U E	0.52 U	0.51 U	0.50 U	0.58 U	0.55 U	0.51 U	2.1 E	0.61 U	0.52 U E	0.60 U	0.61 U E	0.64 U				
Lead, Total Recoverable				63	1,000	3,900	8.8 B E	12.1 B E	17.3 B E	15.4 B E	26.7 B E	18.2 B E	12.6	15.6	15.8 B E	16.6 B E	18.4 B E	13.0	16.2	13.4 B E	16.0	17.5	17.7	18.5	24.3	20.8				
Manganese, Total Recoverable				1,600	10,000	10,000	187 B E	322 B E	454 B E	455 B E	1900 B E	294 B E	408 E	334 E	282 B E	226 B E	166 B E	399 E	150 E	193 B E	850 E	1080 E	405 B E	700 B E	5470 B E	774 B E				
Mercury, Total Recoverable				0.18	2.8	5.7	0.025	0.023	0.027	0.016 J	0.025	0.046	0.017 J	0.019 J	0.023	0.031	0.028	0.024	0.039	0.024	0.030	0.029	0.023	0.029	0.023 J	0.028				
Nickel, Total Recoverable				30	310	10,000	12.8 E	19.2 E	27.8 E	28.0 E	27.7 E	43.5 E	23.6	33.9	31.3 E	27.9 E	30.9 E	21.9	28.8	22.5 E	31.7	48.5	33.9	42.2	25.9	43.6				
Selenium, Total Recoverable				3.9	1,500	6,800	0.41 U	0.45 U	0.46 U	0.66 J B	0.40 U	1.0 J B	0.57 U	0.40 U	0.44 U	0.42 U	0.64 J B	0.53 U	0.83 J	0.39 U	1.4 J	0.70 J	0.64 J	0.50 U	0.55 U	1.2 J				
Silver, Total Recoverable				2.0	1,500	6,800	0.21 U	0.22 U	0.23 U	0.21 U	0.20 U	0.27 U	0.29 U	0.20 U	0.29 U	0.20 U	0.23 U	0.27 U	0.26 U	0.20 U	0.29 U	0.26 U	0.21 U	0.25 U	0.28 U	0.30 U				
Zinc, Total Recoverable				109	10,000	10,000	26.4 B E	51.6 B E	66.0 B E	72.9 B E	65.8 B E	87.5 B E	54.9 B E	66.4 B E	149 B E	86.2 B E	71.7 B E	60.9 B E	66.8 B E	54.6 E	103 B E	82.1 B E	87.1 B E	81.5 B E	76.0 B E	93.6 B E				

				Sample ID Sample Media Date Sampled	SP01S Fill 11/18/2014	SP02S Fill 11/18/2014	SP03S Fill 11/18/2014	SP04S Fill 11/18/2014	SP05S Fill 11/18/2014	SP05D Soil 11/18/2014	SP06S Fill 11/19/2014	SP06D Soil 11/19/2014	DPP02ES Fill 11/18/2014	DPP05ES Fill 11/18/2014	DPP08ES Fill 11/18/2014	DPP10ES Fill 11/19/2014	DPP13ES Fill 11/19/2014	DPP16ES Fill 11/18/2014	SUMP FILL Fill 11/19/2014	SUMP Clay Soil 11/19/2014	DP01 FILL Fill 11/20/2014	DP01 Clay Soil 11/20/2014	DP03 FILL Fill 11/19/2014	DP03 Clay Soil 11/19/2014		
				Soil Cleanup Objectives																						
				Unrestricted	Commercial	Industrial																				
PCBs (mg/kg)				0.1	1.0	25	0.11 U	0.11 U	0.11 U	0.099 U	0.11 U	0.15 U	0.14 U	0.12 U	0.10 U	0.11 U	0.11 U	0.12 U	0.11 U	0.12 U	0.12 U	0.14 U	0.10 U	0.12 U	0.12 U	0.15 U
Polychlorinated biphenyls, Total																										

Notes:  
Values highlighted in yellow indicate exceedance of Unrestricted Use Clay Cleanup Objective.  
Values highlighted in blue indicate exceedance of Commercial Use Clay Cleanup Objectives.  
Values highlighted in gray indicate exceedance of Industrial Use Clay Cleanup Objectives.

Lab Qualifiers:  
U = Not detected above the laboratory method detection limit shown.  
J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit, and the concentration is an approximate value.  
B = Compound was found in the blank sample.  
\* = Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) exceeds the control limits.

Data Validation Qualifiers:  
ND = Not Detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.  
E = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method .  
R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.

**Table 3b: Summary of Chromium and Arsenic Detections at Drip Pad Sample Locations**  
**Northeast Treaters of New York, LLC**  
**796 Schoharie Turnpike, Town of Athens, New York**  
**November 19-20, 2014**

			Analyte	Arsenic, Total Recoverable	Chromium, Total Recoverable	Chromium, hexavalent
			Units	mg/kg	mg/kg	mg/kg
			Soil Cleanup Objectives (Unrestricted)	13	30	1
			Soil Cleanup Objectives (Commercial)	16	1,500	400
			Soil Cleanup Objectives (Industrial)	16	6,800	800
Sample ID	Sample Depth Interval	Sample Matrix	Date Sampled			
SUMP Fill	1 - 3' bgs	Fill	11/19/2014	333	166	5.2
SUMP Clay	3 - 4' bgs	Soil	11/19/2014	74.3	169	0.35 U
SUMP A	5 - 6' bgs	Soil	11/19/2014	34.7	50.2	0.37 U
SUMP B	10 - 11' bgs	Soil	11/19/2014	6.4	26	0.37 U
SUMP C	14 - 15' bgs	Soil	11/19/2014	9.3	22.2	0.29 U
DP01 FILL	1 - 3' bgs	Fill	11/20/2014	641	616	2
DP01 CLAY	3 - 4' bgs	Soil	11/20/2014	14.5	35.9	0.34 U
DP01A	5 - 6' bgs	Soil	11/20/2014	12.6	30	0.33 U
DP01B	10 - 11' bgs	Soil	11/20/2014	5.3	21	0.34 U
DP01C	14 - 15' bgs	Soil	11/20/2014	7.9	25.4	0.38 U
DP02A	1 - 3' bgs	Fill	11/20/2014	1360	1260	9.4
DP02B	4 - 5' bgs	Soil	11/20/2014	6.3	31.6	0.37 U
DP02C	8 - 9' bgs	Soil	11/20/2014	7.9	24.5	3.5
DP03 FILL	1 - 3' bgs	Fill	11/19/2014	401	98.6	0.86 J
DP03 CLAY	3 - 4' bgs	Soil	11/19/2014	8.7	31.8	0.37 U
DP03A	5 - 6' bgs	Soil	11/19/2014	8.6	28.3	0.37
DP03B	10 - 11' bgs	Soil	11/19/2014	13.3	25.2	0.41 J
DP03C	14 - 15' bgs	Soil	11/19/2014	20.5	30.1	0.38 J
DP04A	1 - 3' bgs	Fill	11/20/2014	91.8	37.8	1.5
DP04B	3 - 4' bgs	Soil	11/20/2014	6.8	29.7	0.34 U
DP04C	5 - 6' bgs	Soil	11/20/2014	5.2	29.2	0.34 U
DP04D	10 - 11' bgs	Soil	11/20/2014	5.9	27.6	0.34 U
DP04E	14 - 15' bgs	Soil	11/20/2014	11	30.1	0.39 U

**Notes:**

Values highlighted in yellow indicate exceedance of Unrestricted Use Soil Cleanup Objectives.

Values highlighted in blue indicate exceedance of Commercial Use Soil Cleanup Objectives.

Values highlighted in gray indicate exceedance of Industrial Use Soil Cleanup Objectives.

**Lab Qualifiers:**

U = Not detected above the laboratory method detection limit shown.

J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit, and the concentration is an approximate value.

**Data Validation Qualifier:**

E = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.



**Table 3c: Summary of Chromium and Arsenic Detections at DPP Sample Locations**  
**Northeast Treaters of New York, LLC**  
**796 Schoharie Turnpike, Town of Athens, New York**  
**November 17-20, 2014**

			Analyte	Arsenic, Total Recoverable	Chromium, Total Recoverable	Chromium, Hexavalent
			Units	mg/kg	mg/kg	mg/kg
			Soil Cleanup Objectives (Unrestricted)	13	30	1
			Soil Cleanup Objectives (Commercial)	16	1,500	400
			Soil Cleanup Objectives (Industrial)	16	6,800	800
Sample ID	Sample Depth Interval	Soil Matrix	Date Sampled			
DPP01IS	0 - 1' bgs	Fill	11/17/2014	27.7	12.9	0.28 U
DPP01ID	3 - 5' bgs	Soil	11/17/2014	7.4	22.4	0.45 J
DPP01ES	0 - 1' bgs	Fill	11/17/2014	16.5	14.5	0.30 U
DPP02IS	0 - 1' bgs	Fill	11/17/2014	127	67.9	1.6
DPP02ES	0 - 2' bgs	Fill	11/18/2014	76.4	62.4	0.38 J
DPP02ED	3 - 4' bgs	Soil	11/18/2014	8.4	23.8	0.35 U
DPP03IS	0 - 1' bgs	Fill	11/17/2014	103	64.7	3.3
DPP03ID	3 - 5' bgs	Soil	11/17/2014	5.1	28.6	0.36 U
DPP03ES	0 - 1' bgs	Fill	11/17/2014	83.8	54.3	0.93
DPP04IS	0 - 1' bgs	Fill	11/17/2014	43.6	36.6	4.2
DPP04ES	0 - 1' bgs	Fill	11/17/2014	35.3	28.5	2.1
DPP04ED	3 - 5' bgs	Soil	11/17/2014	9.0	22.4	0.34 U
DPP05IS	0 - 1' bgs	Fill	11/17/2014	66.3	33.6	1.8
DPP05ID	3 - 5' bgs	Soil	11/17/2014	7.8	26.3	0.68 J
DPP05ES	0 - 3' bgs	Fill	11/18/2014	40.4	37.1	0.65 J
DPP06IS	0 - 1' bgs	Fill	11/17/2014	47.9	27.3	0.6 J
DPP06ES	0 - 1' bgs	Fill	11/17/2014	78.8	57.3	0.29 U
DPP06ED	3 - 5' bgs	Soil	11/17/2014	9.7	26.2	0.38 J
DPP07IS	0 - 1' bgs	Fill	11/17/2014	206	91.7	4.8
DPP07ID	4 - 7' bgs	Soil	11/17/2014	35.7	47.3	0.48 J
DPP07ES	0 - 2' bgs	Fill	11/17/2014	23.8	18.2	0.29 U
DPP08IS	0 - 1' bgs	Fill	11/17/2014	46.4	38.6	0.30 U
DPP08ES	0 - 2' bgs	Fill	11/18/2014	46.3	40.5	1.1
DPP08ED	4 - 5' bgs	Soil	11/18/2014	8.2	27	0.35 U

**Notes:**

Values highlighted in yellow indicate exceedance of Unrestricted Use Soil Cleanup Objectives.

Values highlighted in blue indicate exceedance of Commercial Use Soil Cleanup Objectives.

Values highlighted in gray indicate exceedance of Industrial Use Soil Cleanup Objectives.

**Lab Qualifiers:**

U = Not detected above the laboratory method detection limit shown.

J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit, and the concentration is an

**Data Validation Qualifier:**

E = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

**Table 3c: Summary of Chromium and Arsenic Detections at DPP Sample Locations**  
**Northeast Treaters of New York, LLC**  
**796 Schoharie Turnpike, Town of Athens, New York**  
**November 17-20, 2014**

			Analyte	Arsenic, Total Recoverable	Chromium, Total Recoverable	Chromium, Hexavalent
			Units	mg/kg	mg/kg	mg/kg
			Soil Cleanup Objectives (Unrestricted)	13	30	1
			Soil Cleanup Objectives (Commercial)	16	1,500	400
			Soil Cleanup Objectives (Industrial)	16	6,800	800
Sample ID	Sample Depth Interval	Soil Matrix	Date Sampled			
DPP09IS	1 - 3' bgs	Fill	11/20/2014	72.4	17.8	0.29 U
DPP09ID	4 - 5' bgs	Soil	11/20/2014	10.4	30.1	0.35 U
DPP09ES	1 - 3' bgs	Fill	11/20/2014	86.1	96.7	3.1
DPP09ED	4 - 5' bgs	Soil	11/20/2014	12.6	30.1	0.59 J
DPP10IS	1 - 3' bgs	Fill	11/19/2014	9.3	15.5	0.32 U
DPP10ED	4 - 5' bgs	Soil	11/19/2014	6.4	22.5	0.62 U
DPP10ES	1 - 3' bgs	Fill	11/19/2014	17.7	20.6	0.33 U
DPP11IS	1 - 2' bgs	Fill	11/18/2014	34.6	34.5	1.9
DPP11ID	4 - 5' bgs	Soil	11/18/2014	11.3 E	27 E	0.46 J
DPP11ES	1 - 2' bgs	Fill	11/19/2014	35.8	34.3	2.5
DPP12IS	1 - 3' bgs	Fill	11/18/2014	30.4	31.8	1.1
DPP12ES	1 - 3' bgs	Fill	11/18/2014	62.4	50.1	2.5
DPP12ED	4 - 5' bgs	Soil	11/18/2014	11.1	27.5	0.37 U
DPP13IS	1 - 3' bgs	Fill	11/19/2014	24.6	28.4	0.90 J
DPP13ID	4 - 5' bgs	Soil	11/19/2014	9.1	25.1	0.33 U
DPP13ES	1 - 3' bgs	Fill	11/19/2014	28.9	32.9	0.32 U
DPP14IS	1 - 2' bgs	Fill	11/17/2014	24	23.4	1.7
DPP14ES	3 - 5' bgs	Fill	11/17/2014	52.9	34.6	0.33 J
DPP14ED	4 - 5' bgs	Soil	11/17/2014	7.0	30.3	0.35 U
DPP15IS	1 - 2' bgs	Fill	11/17/2014	104	77.2	1.6
DPP15ID	3 - 5' bgs	Soil	11/17/2014	6.7	30.6	2.0
DPP15ES	1 - 2' bgs	Fill	11/17/2014	7.9	17.9	0.32 J
DPP16IS	1 - 2' bgs	Fill	11/17/2014	35.8	37.3	0.82 J
DPP16ES	0 - 2' bgs	Fill	11/18/2014	46.5	41.7	0.82 J
DPP16ED	3 - 4' bgs	Soil	11/18/2014	7.4	26.6	0.36 U

**Notes:**

Values highlighted in yellow indicate exceedance of Unrestricted Use Soil Cleanup Objectives.

Values highlighted in blue indicate exceedance of Commercial Use Soil Cleanup Objectives.

Values highlighted in gray indicate exceedance of Industrial Use Soil Cleanup Objectives.

**Lab Qualifiers:**

U = Not detected above the laboratory method detection limit shown.

J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit, and the concentration is an

**Data Validation Qualifier:**

E = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

**Table 3d: Summary of Chromium and Arsenic Detections at Site Permitter Sample Locations  
Northeast Treaters of New York, LLC  
796 Schoharie Turnpike, Town of Athens, New York**

			Analyte	Arsenic, Total Recoverable	Chromium, Total Recoverable	Chromium, Hexavalent
			Units	mg/kg	mg/kg	mg/kg
			Soil Cleanup Objectives (Unrestricted)	13	30	1
			Soil Cleanup Objectives (Commercial)	16	1,500	400
			Soil Cleanup Objectives (Industrial)	16	6,800	800
Sample ID	Sample Depth Interval	Sample Matrix	Date Sampled			
SP01S	1 - 4' bgs	Fill	11/18/2014	18.7	10.3	0.70 J
SP01D	4 - 5' bgs	Soil	11/18/2014	6.2	23.8	0.36 U
SP02S	0 - 2' bgs	Fill	11/18/2014	19.1	17.4	0.29 U
SP02D	3 - 4' bgs	Soil	11/18/2014	3.8	32.7	0.37 U
SP03S	0 - 2' bgs	Fill	11/18/2014	27	26.8	0.29 U
SP03D	3 - 4' bgs	Soil	11/18/2014	6.7	23.6	0.36 U
SP04S	0 - 2' bgs	Fill	11/18/2014	10.5	16.8	0.28 U
SP04D	4 - 5' bgs	Soil	11/18/2014	8.9	30	0.35 U
SP05S	0 - 2' bgs	Fill	11/18/2014	13.1	13.7	0.28 U
SP05D	4 - 6' bgs	Soil	11/18/2014	7.7	30.7	0.35 U
SP06S	1 - 4' bgs	Fill	11/19/2014	18.8	26.6	1.2
SP06D	4 - 5' bgs	Soil	11/19/2014	6.5	23.5	0.29 U
SP07	0 - 1' bgs	Fill/Soil	01/22/2015	44.4	51.4 E	0.35 U
SP08	0 - 0.5' bgs	Fill/Soil	01/22/2015	9.7	32.5 E	0.36 U
SP09	0 - 1' bgs	Soil	01/22/2015	8.3	21.8 E	0.35 U
SP10	0 - 1' bgs	Soil	01/22/2015	6.1	0.28 U	0.35 U
SP11	0.5 - 1' bgs	Fill	01/22/2015	8.8	7.3 E	0.28 U
SP12	0.5 - 1' bgs	Fill	01/22/2015	9.0	7.6 E	0.28 U

**Notes:**

Values highlighted in yellow indicate exceedance of Unrestricted Use Soil Cleanup Objectives.

Values highlighted in blue indicate exceedance of Commercial Use Soil Cleanup Objectives.

Values highlighted in gray indicate exceedance of Industrial Use Soil Cleanup Objectives.

**Lab Qualifiers:**

U = Not detected above the laboratory method detection limit shown.

J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit, and the concentration is an approximate value.

**Data Validation Qualifier:**

E = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

**Table 3d: Summary of Chromium and Arsenic Detections at Site Permitter Sample Locations**  
**Northeast Treaters of New York, LLC**  
**796 Schoharie Turnpike, Town of Athens, New York**

			Analyte	Arsenic, Total Recoverable	Chromium, Total Recoverable	Chromium, Hexavalent
			Units	mg/kg	mg/kg	mg/kg
			Soil Cleanup Objectives (Unrestricted)	13	30	1
			Soil Cleanup Objectives (Commercial)	16	1,500	400
			Soil Cleanup Objectives (Industrial)	16	6,800	800
Sample ID	Sample Depth Interval	Sample Matrix	Date Sampled			
SP-13	0 - 1'	Soil	4/15/2015	24	28	0.2 U R
SP-13S	0 - 2"	Soil	4/15/2015	29	35	0.19 U R
SP-14	0 - 1'	Soil	4/15/2015	17	29	0.21 U R
SP-14S	0 - 2"	Soil	4/15/2015	18	29	0.21 U R
SP-15	0 - 1'	Soil	4/15/2015	16	27	0.22 U R
SP-15S	0 - 2"	Soil	4/15/2015	19	22	0.25 U R
SP-16	0 - 1'	Soil	4/15/2015	14	26 E	0.22 U
SP-16S	0 - 2"	Soil	4/15/2015	8.3	21 E	0.22 U
SP-17	0 - 1'	Soil	4/15/2015	20	22 E	0.2 U
SP-17S	0 - 2"	Soil	4/20/2015	13	17 E	0.2 U
SP-18	0 - 1'	Soil	4/15/2015	16	28 E	0.21 U
SP-18S	0 - 2"	Soil	4/15/2015	19	20 E	0.21 U
SP-19	0 - 1'	Soil	4/15/2015	13	23 E	0.21 U
SP-19S	0 - 2"	Soil	4/15/2015	19	25 E	0.2 U
SP-20	0 - 1'	Soil	4/15/2015	6.8	20 E	0.23 U
SP-20S	0 - 2"	Soil	4/15/2015	20	21 E	0.18 U
SP-21	0 - 1'	Fill	4/15/2015	15	17 E	0.17 U E
SP-21S	0 - 2"	Fill	4/15/2015	9.4	9.7 E	0.16 U E
SP-22	0.5 - 1'	Fill	4/15/2015	13	11 E	0.17 U E
SP-23	0.5 - 1'	Fill	4/15/2015	9.9	23 E	0.17 U E
SP-24	0.5 - 1'	Fill	4/15/2015	12	8.1 E	0.17 U E
SP-25	0.5 - 1'	Fill	4/15/2015	9	26 E	0.17 U E
SP-26	0.5 - 1'	Soil	4/15/2015	12	29	0.23 U E
SP-26S	0 - 2"	Fill/Soil	4/20/2015	13	27	0.22 U E

**Notes:**

- Values highlighted in yellow indicate exceedance of Unrestricted Use Soil Cleanup Objectives.
- Values highlighted in blue indicate exceedance of Commercial Use Soil Cleanup Objectives.
- Values highlighted in gray indicate exceedance of Industrial Use Soil Cleanup Objectives.

**Lab Qualifiers:**

U = Not detected above the laboratory method detection limit shown.

J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit, and the concentration is an approximate value.

**Data Validation Qualifier:**

E = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.

**Table 3e: Summary of Chromium and Arsenic Detections at Former Woodland Sample Locations**  
**Northeast Treaters of New York, LLC**  
**796 Schoharie Turnpike, Town of Athens, New York**  
**April 15, 2015**

			Analyte	Arsenic, Total Recoverable	Chromium, Total Recoverable	Chromium, Hexavalent
			Units	mg/kg	mg/kg	mg/kg
			Soil Cleanup Objectives (Unrestricted)	13	30	1
			Soil Cleanup Objectives (Commercial)	16	1,500	400
			Soil Cleanup Objectives (Industrial)	16	6,800	800
Sample ID	Sample Depth Interval	Sample Matrix	Date Sampled			
OSS-1	0 - 2"	Soil	4/15/2015	46	46 E	0.24 U E
OSS-2	0 - 2"	Soil	4/15/2015	50	45 E	0.25 U E
OSS-3	0 - 2"	Soil	4/15/2015	34	39 E	0.51 U E
OSS-4	0 - 2"	Soil	4/15/2015	27	31	0.28 U R
OSS-5	.5 - 1'	Soil	4/20/2015	16	27	0.23 U E
OSS-5S	0 - 2"	Soil	4/20/2015	17	28	0.25 U E
OSS-6	.5 - 1'	Soil	4/20/2015	16	22	0.22 U E
OSS-6S	0 - 2"	Soil	4/20/2015	23	27	0.24 U E
OSS-7	.5 - 1'	Soil	4/20/2015	9.5	21	0.23 U E
OSS-7S	0 - 2"	Soil	4/20/2015	24	31	0.94 J
OSS-8	.5 - 1'	Soil	4/20/2015	11	25	0.24 U E
OSS-8S	0 - 2"	Soil	4/20/2015	17	26	0.31 U E
OSS-9	.5 - 1'	Soil	4/20/2015	12	21	0.21 U
OSS-9S	0 - 2"	Soil	4/20/2015	35	35	0.22 U E
OSS-10	.5 - 1'	Soil	4/20/2015	7.7	15	0.22 U E
OSS-10S	0 - 2"	Soil	4/20/2015	14	19	0.25 U E
OSS-11	.5 - 1'	Soil	4/20/2015	9.1	21	0.24 U E
OSS-11S	0 - 2"	Soil	4/20/2015	11	22	0.25 U E
OSS-12	.5 - 1'	Soil	4/20/2015	11	22	0.22 U E
OSS-12S	0 - 2"	Soil	4/20/2015	20	28	0.26 U E
OSS-13	.5 - 1'	Soil	4/20/2015	9.3	20	0.35 J
OSS-13S	0 - 2"	Soil	4/20/2015	19	30	0.32 U E
OSS-15	.5 - 1'	Soil	4/20/2015	8.5	23	0.23 U
OSS-15S	0 - 2"	Soil	4/20/2015	11	24	0.3 U
OSS-16	.5 - 1'	Soil	4/20/2015	12	29	0.28 U
OSS-16S	0 - 2"	Soil	4/20/2015	12	26	0.35 U
OSS-17	.5 - 1'	Soil	4/20/2015	7.7	24	0.23 U
OSS-17S	0 - 2"	Soil	4/20/2015	7.4	20	0.32 U
OSS-18	.5 - 1'	Soil	4/20/2015	7.2	26	0.24 U
OSS-18S	0 - 2"	Soil	4/20/2015	7.7	21	0.24 U
OSS-19	.5 - 1'	Soil	4/20/2015	7.1	20	0.23 U
OSS-19S	0 - 2"	Soil	4/20/2015	9.2	21	0.27 U E

**Notes:**

Values highlighted in yellow indicate exceedance of Unrestricted Use Soil Cleanup Objectives.

Values highlighted in blue indicate exceedance of Commercial Use Soil Cleanup Objectives.

Values highlighted in gray indicate exceedance of Industrial Use Soil Cleanup Objectives.

**Lab Qualifiers:**

U = Not detected above the laboratory method detection limit shown.

J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit, and the concentration is an approximate value.

**Data Validation Qualifier:**

E = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.

**Table 3f: Summary of Chromium and Arsenic Detections at Catch Basin Locations**  
**Northeast Treaters of New York, LLC**  
**796 Schoharie Turnpike, Town of Athens, New York**  
**April 15 & 20, 2015**

			Analyte	Arsenic, Total Recoverable	Chromium, Total Recoverable	Chromium, Hexavalent
			Units	mg/kg	mg/kg	mg/kg
			Soil Cleanup Objectives (Unrestricted)	13	30	1
			Soil Cleanup Objectives (Commercial)	16	1,500	400
			Soil Cleanup Objectives (Industrial)	16	6,800	800
Sample ID	Sample Depth Interval	Sample Matrix	Date Sampled			
CB-01	0 - 2"	Sediment	4/15/2015	28	30 E	0.25 U E
CB-02	0 - 2"	Soil	4/15/2015	35	43 E	0.21 J E
CB-03	0 - 2"	Soil	4/15/2015	40	36 E	0.2 U E
CB-04	0 - 2"	Soil	4/15/2015	24	41	0.21 U E
CB-05	0 - 2"	Soil	4/15/2015	27	28	0.2 U E
CB-06	0 - 2"	Soil	4/15/2015	26	33	0.22 U E
CB-07	0 - 2"	Sediment	4/15/2015	36	35	0.34 J
CB-08	0 - 2"	Sediment	4/20/2015	39	87	0.33 J E

**Notes:**

Values highlighted in yellow indicate exceedance of Unrestricted Use Soil Cleanup Objectives.

Values highlighted in blue indicate exceedance of Commercial Use Soil Cleanup Objectives.

Values highlighted in gray indicate exceedance of Industrial Use Soil Cleanup Objectives.

**Lab Qualifiers:**

U = Not detected above the laboratory method detection limit shown.

J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit, and the concentration is an approximate value.

**Data Validation Qualifier:**

E = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.

R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.

**Table 3g: Soil Sample Results - Total Recoverable Metals**  
**Northeast Treaters of New York, LLC**  
**796 Schoharie Turnpike, Town of Athens, New York**  
**June 23, 2014**

			Analyte	Arsenic, Total Recoverable	Chromium, Total Recoverable
			Units	mg/kg	mg/kg
			Soil Cleanup Objectives (Unrestricted)	13	30
			Soil Cleanup Objectives (Commercial)	16	1,500
			Soil Cleanup Objectives (Industrial)	16	6,800
Sample ID	Sample Depth Interval	Sample Matrix	Date Sampled		
S-1A	1.0 - 2.0' bgs	Fill	6/23/2014	1430	1060
S-1B	2.0 - 3.0' bgs	Fill	6/23/2014	95.3	316
S-1C	3.0 - 4.0' bgs	Soil	6/23/2014	6.7	20.6
S-1D	4.0 - 5.0' bgs	Soil	6/23/2014	17.1	37.3
S-1E	5.0 - 6.0' bgs	Soil	6/23/2014	9.2	25.6
S-2A	1.0 - 2.0' bgs	Fill	6/23/2014	26.0	11.7
S-2B	2.0 - 3.0' bgs	Fill	6/23/2014	10.1	20.8
S-2C	3.0 - 4.0' bgs	Soil	6/23/2014	8.0	17.3
S-2D	4.0 - 5.0' bgs	Soil	6/23/2014	7.2	17.3
S-2E	5.0 - 6.0' bgs	Soil	6/23/2014	8.4	16.7
S-3A	1.0 - 2.0' bgs	Fill	6/23/2014	56.8	76.5
S-3B	2.0 - 3.0' bgs	Fill	6/23/2014	7.5	24.9
S-3C	3.0 - 4.0' bgs	Soil	6/23/2014	9.0	29.8
S-3D	4.0 - 5.0' bgs	Soil	6/23/2014	6.7	19.9
S-3E	5.0 - 6.0' bgs	Soil	6/23/2014	7.0	22.9
S-4A	1.0 - 2.0' bgs	Fill	6/23/2014	78.0	55.0
S-4B	2.0 - 3.0' bgs	Fill	6/23/2014	39.7	66.8
S-4C	3.0 - 4.0' bgs	Soil	6/23/2014	53.2	46.2
S-4D	4.0 - 5.0' bgs	Soil	6/23/2014	64.1	40.7
S-4E	5.0 - 6.0' bgs	Soil	6/23/2014	52.6	47.3

**Notes:**

- Values highlighted in yellow indicate exceedance of Unrestricted Use Soil Cleanup Objective.
- Values highlighted in blue indicate exceedance of Commercial Use Soil Cleanup Objectives.
- Values highlighted in gray indicate exceedance of Industrial Use Soil Cleanup Objectives.

**Table 3h: Drip Pad Concrete Sample Results - Total Recoverable Metals**  
**Northeast Treaters of New York, LLC**  
**796 Schoharie Turnpike, Town of Athens, New York**  
**June 23, 2014**

		<b>Analyte</b>	Arsenic, Total Recoverable	Chromium, Total Recoverable
		<b>Units</b>	mg/kg	mg/kg
<b>Sample ID</b>	<b>Sample Matrix</b>	<b>Sample Depth Interval</b>		
C-1A	Concrete	0 - 3" bgs	7.6	262
C-1B	Concrete	3 - 6" bgs	740	1610
C-1C	Concrete	6 - 9" bgs	1290	726
C-2A	Concrete	0 - 3" bgs	7.4	20.0
C-2B	Concrete	3 - 6" bgs	8.6	15.5
C-2C	Concrete	6 - 9" bgs	6.7	13.1
C-3A	Concrete	0 - 3" bgs	9.1	257
C-3B	Concrete	3 - 6" bgs	48.7	61.0
C-3C	Concrete	6 - 9" bgs	88.5	96.0
C-4A	Concrete	0 - 3" bgs	8.5	299
C-4B	Concrete	3 - 6" bgs	198	111
C-4C	Concrete	6 - 9" bgs	448	237



**Table 3i: Soil Sample Results - TCLP Metals**  
**Northeast Treaters of New York, LLC**  
**796 Schoharie Turnpike, Town of Athens, New York**  
**June 23, 2014**

		Parameter	Arsenic (mg/L)	Chromium (mg/L)
		Determination Level	50	6
Sample ID	Sample Matrix	Sample Depth Interval		
S-1A	Fill	1.0 - 2.0' bgs	0.85 B	0.054 J B
S-1B	Fill	2.0 - 3.0' bgs	0.059 J B	0.080 J B
S-1C	Soil	3.0 - 4.0' bgs	0.0077 J B	0.0084 J B
S-1D	Soil	4.0 - 5.0' bgs	0.019 J B	0.0073 J B
S-1E	Soil	5.0 - 6.0' bgs	0.010 J B	0.0069 J B
S-2A	Fill	1.0 - 2.0' bgs	0.011 J B	0.0068 J B
S-2B	Fill	2.0 - 3.0' bgs	0.0078 J B	0.0072 J B
S-2C	Soil	3.0 - 4.0' bgs	0.0094 J B	0.0067 J B
S-2D	Soil	4.0 - 5.0' bgs	0.0075 J B	0.014 J B
S-2E	Soil	5.0 - 6.0' bgs	0.0068 J B	0.0064 J B
S-3A	Fill	1.0 - 2.0' bgs	0.011 J B	0.018 J B
S-3B	Fill	2.0 - 3.0' bgs	0.0047 J B	0.0074 J B
S-3C	Soil	3.0 - 4.0' bgs	0.0062 J B	0.0066 J B
S-3D	Soil	4.0 - 5.0' bgs	0.0083 J B	0.0074 J B
S-3E	Soil	5.0 - 6.0' bgs	0.0095 J B	0.0086 J B
S-4A	Fill	1.0 - 2.0' bgs	0.016 J B	0.0077 J B
S-4B	Fill	2.0 - 3.0' bgs	0.25 J B	0.032 J B
S-4C	Soil	3.0 - 4.0' bgs	0.17 J B	0.010 J B
S-4D	Soil	4.0 - 5.0' bgs	0.21 J B	0.013 J B
S-4E	Soil	5.0 - 6.0' bgs	0.27 J B	0.015 J B

**Bold** indicates Contained-in Determination Level exceedance.

B - Compound was found in the blank and sample.

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

**Table3j: Concrete Sample Results - TCLP Metals**  
**Northeast Treaters of New York, LLC**  
**796 Schoharie Turnpike, Town of Athens, New York**  
**June 23, 2014**

		Parameter	Arsenic (mg/L)	Chromium (mg/L)
		Debris Rule / Universal Treatment Standard	5	0.6
Sample ID	Sample Matrix	Sample Depth Interval		
C-1A	Concrete	0 - 3" bgs	0.0062 J B	<b>5.7</b> B
C-1B	Concrete	3 - 6" bgs	0.015 J B	<b>5.3</b> B
C-1C	Concrete	6 - 9" bgs	0.034 J B	<b>0.83</b> B
C-2A	Concrete	0 - 3" bgs	0.0054 J B	0.14 J B
C-2B	Concrete	3 - 6" bgs	0.0069 J B	0.058 J B
C-2C	Concrete	6 - 9" bgs	0.0073 J	0.077 J B
C-3A	Concrete	0 - 3" bgs	0.0058 J B	<b>4.3</b> B
C-3B	Concrete	3 - 6" bgs	0.0060 J B	0.25 J B
C-3C	Concrete	6 - 9" bgs	0.013 J B	<b>0.88</b> B
C-4A	Concrete	0 - 3" bgs	0.0063 J B	<b>6.9</b> B
C-4B	Concrete	3 - 6" bgs	0.013 J B	0.073 J B
C-4C	Concrete	6 - 9" bgs	0.037 J B	0.12 J B

**Bold** indicates Debris Rule exceedance.

B - Compound was found in the blank and sample.

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

**Table 3k Summary of Chromium and Arsenic Detections at Settling Basin and Downgradient Swale  
Northeast Treaters of New York, LLC  
796 Schoharie Turnpike, Town of Athens, New York  
August 17, 2015 & December 7, 2015**

Analyte		Arsenic, Total	Chromium, Total	Chromium, Hexavalent
Soil Cleanup Objectives (Unrestricted)		13	30	1
Units		mg/kg	mg/kg	mg/kg
LOCATION	SAMPLING DATE	Qual	Qual	Qual
SB-1	8/17/2015	82	89	-
SB-2	8/17/2015	210	320	-
SB-3	8/17/2015	56	81	-
SB-4	8/17/2015	34	41	-
SB-5	8/17/2015	44	88	-
DS-1	8/17/2015	70	92	-
DS-2	8/17/2015	26	39	-
WSW-1	12/7/2015	14	120	1.1 U
ESW-1	12/7/2015	12	23	0.57 J
B-1	12/7/2015	13	22	1.2 U
WSW-2	12/7/2015	28	46	1.4 U
ESW-2	12/7/2015	16	21	1.1 U
B-2	12/7/2015	12	17	1.2 U
WSW-3	12/7/2015	12	18	0.42 J
ESW-3	12/7/2015	12	20	1.4 U
B-3	12/7/2015	11	17	1.2 U
WSW-4	12/7/2015	26	30	1.4 U
ESW-4	12/7/2015	19	23	1.4 U
B-4	12/7/2015	19	26	1.3 U
MP-1	12/7/2015	20	28	2.6 U

**Notes:**

Values highlighted in yellow indicate exceedance of Unrestricted Use Soil Cleanup Objectives.

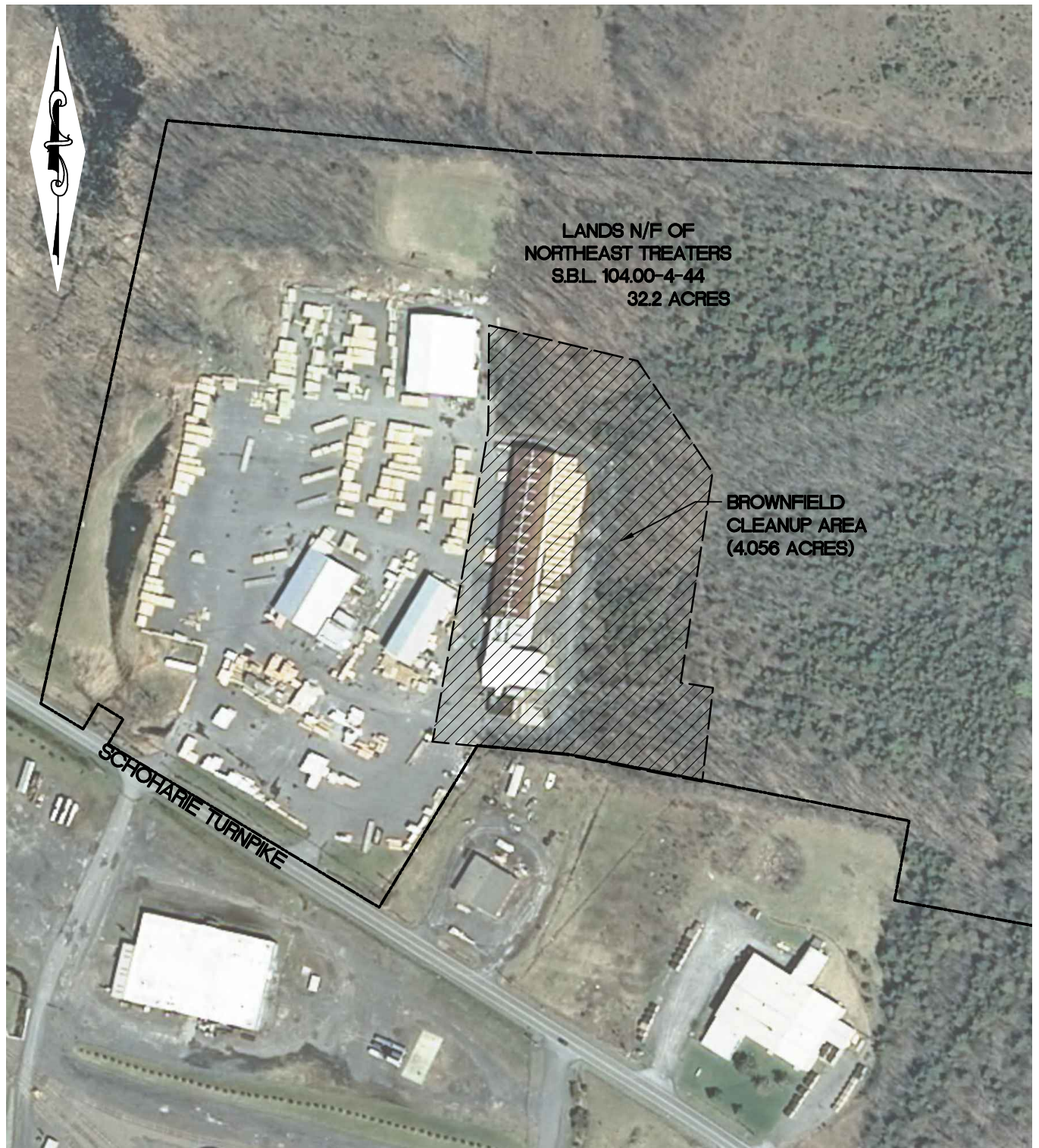
Values highlighted in gray indicate that the laboratory's method detection limit exceeds the Unrestricted Use Soil Cleanup Objectives.

**Lab Qualifiers:**

U = Not detected above the laboratory method detection limit shown.

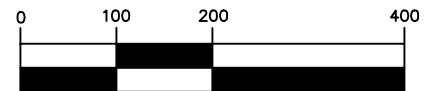
J = Result is less than the laboratory reporting limit but greater than or equal to the method detection limit, and the concentration is an approximate value.

## FIGURES



**LEGEND:**

— — — — — APPROXIMATE PROPERTY BOUNDARY



1 inch = 200 ft.

MAP REFERENCE: NEW YORK STATEWIDE DIGITAL ORTHOIMAGERY PROGRAM, PHOTOGRAPHY CIRCA 2013

**STERLING**  
Sterling Environmental Engineering, P.C.  
24 Wade Road ♦ Latham, New York 12110

SUBJECT PROPERTY AND SITE MAP  
**NORTHEAST TREATERS**  
SCHOHARIE TURNPIKE

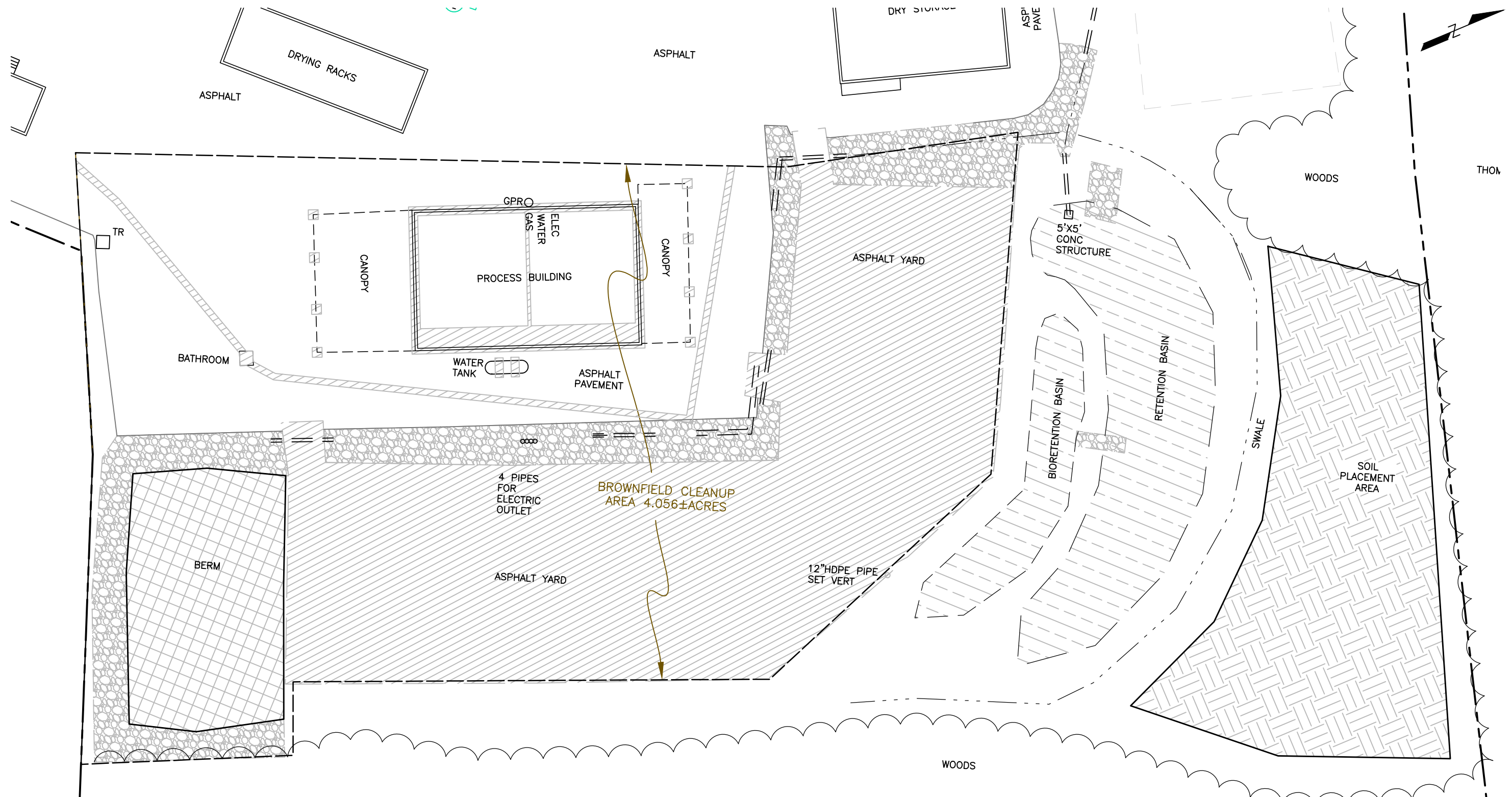
TOWN OF ATHENS

GREENE CO., N.Y.

PROJ. No.: 2014-08 | DATE: 07/13/2016 | SCALE: 1" = 200' | DWG. NO. 2014-08023 | FIGURE 1



S:\Drawings\2014-08 - Northeast Treators of New York - Athens NY\2014-08105\_F-2 - Soil Excavation and Consolidation Areas.dwg SWEETT 7/14/2016 11:06 AM

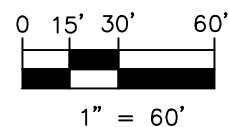


LEGEND:

	IMPACTED SOIL EXCAVATION
	IMPACTED SOIL CONSOLIDATION
	UNIMPACTED SOIL EXCAVATION
	UNIMPACTED SOIL PLACEMENT AREA
	RIPRAP
	PROPERTY LINE

NOTES

1. SEE FIGURE 3 FOR BCA PROTECTIVE COVER SYSTEM AND DETAILS



MAP REFERENCE: MAP FROM SURVEY PERFORMED BY SANTO ASSOCIATES DATED JUNE 8, 2016

**STERLING**

Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

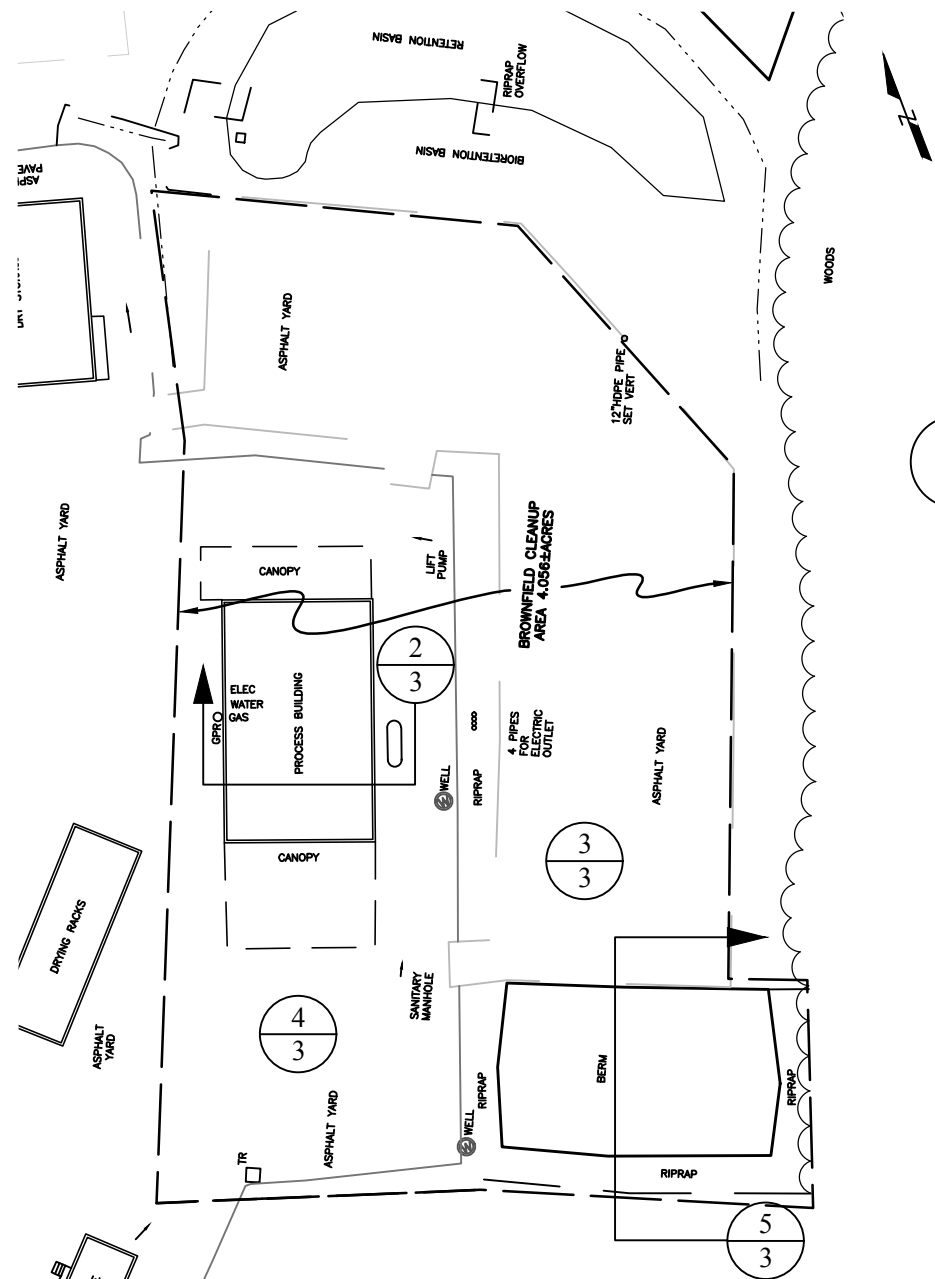
EXCAVATION AND  
CONSOLIDATION AREAS  
**NORTHEAST TREATORS**  
SCHOHARIE TURNPIKE

TOWN OF ATHENS

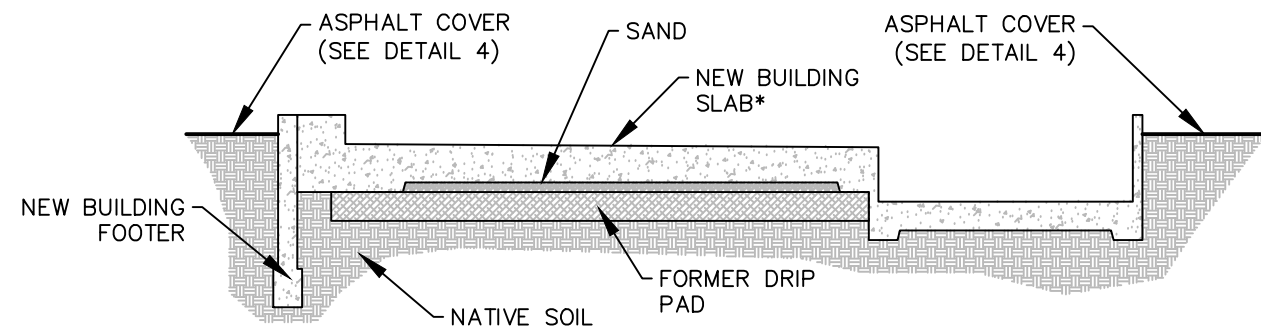
GREENE CO., N.Y.

PROJ. No.: 2014-08 | DATE: 07/13/2016 | SCALE: 1" = 60' | DWG. NO. 2014-08105 | FIGURE 2

S:\Drawings\2014-08 - Northeast Treators of New York - Athens NY\2014-08103\_F-3 - Typical Cover Soil Details (FER).dwg SWEETT 7/14/2016 11:04 AM

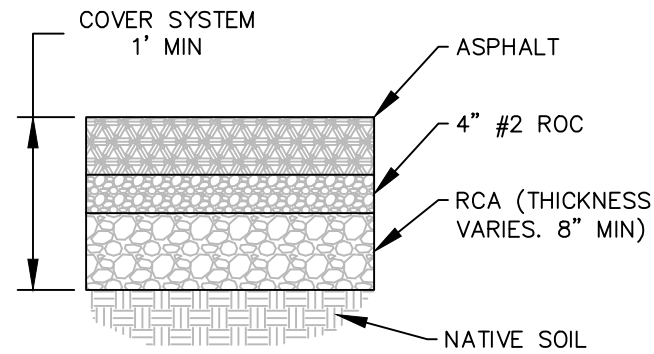


1 BCA PLAN VIEW  
SCALE: 1" = 100'

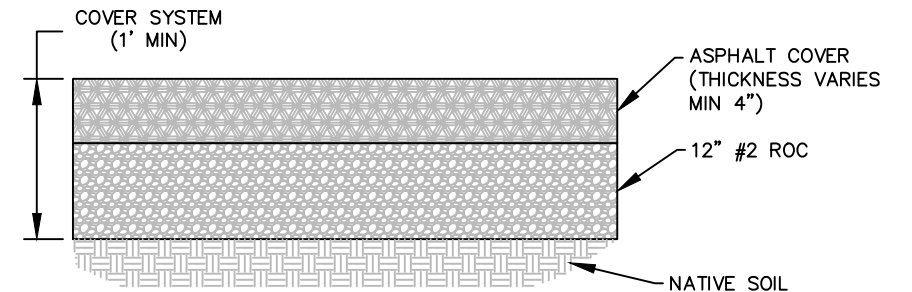


\*NOTE: CONFIGURATION OF NEW BUILDING SLAB VARIES WITH LOCATION

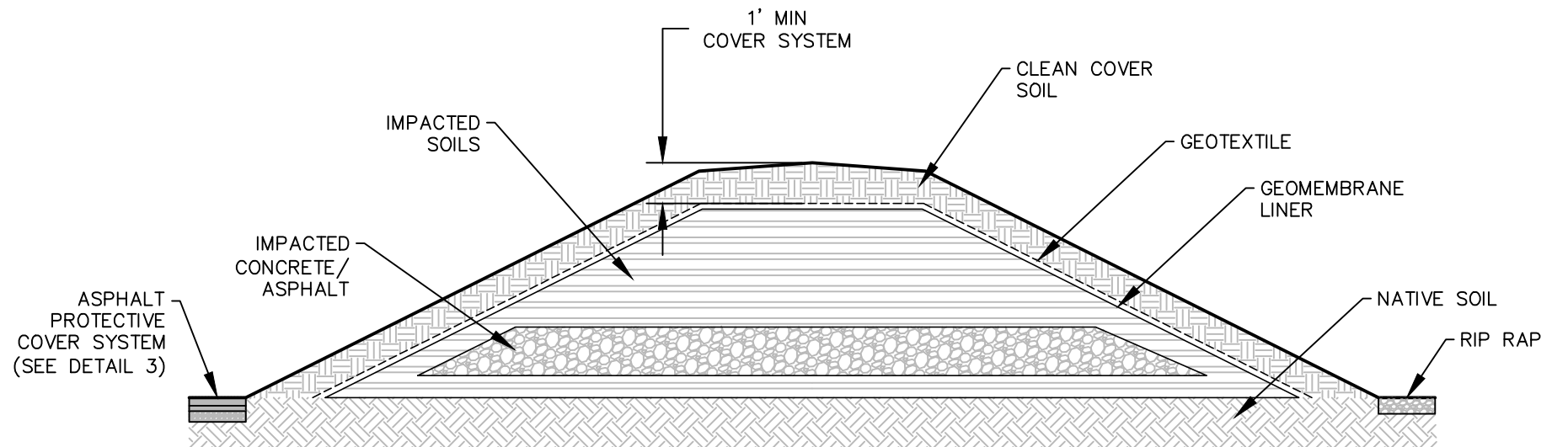
2 CONCRETE/ASPHALT COVER SYSTEM DETAIL  
HORIZONTAL SCALE: 1" = 10'  
VERTICAL SCALE: 1" = 2.5'



3 ASPHALT PAVEMENT COVER DETAIL  
SCALE: N.T.S.



4 ASPHALT PAVEMENT COVER DETAIL  
SCALE: N.T.S.



5 BERM COVER SYSTEM DETAIL  
SCALE: N.T.S.

ABBREVIATIONS:  
ROC- RUN OF CRUSH (CRUSHED STONE)  
RCA- RECYCLED CONCRETE AGGREGATE

**STERLING**

Sterling Environmental Engineering, P.C.

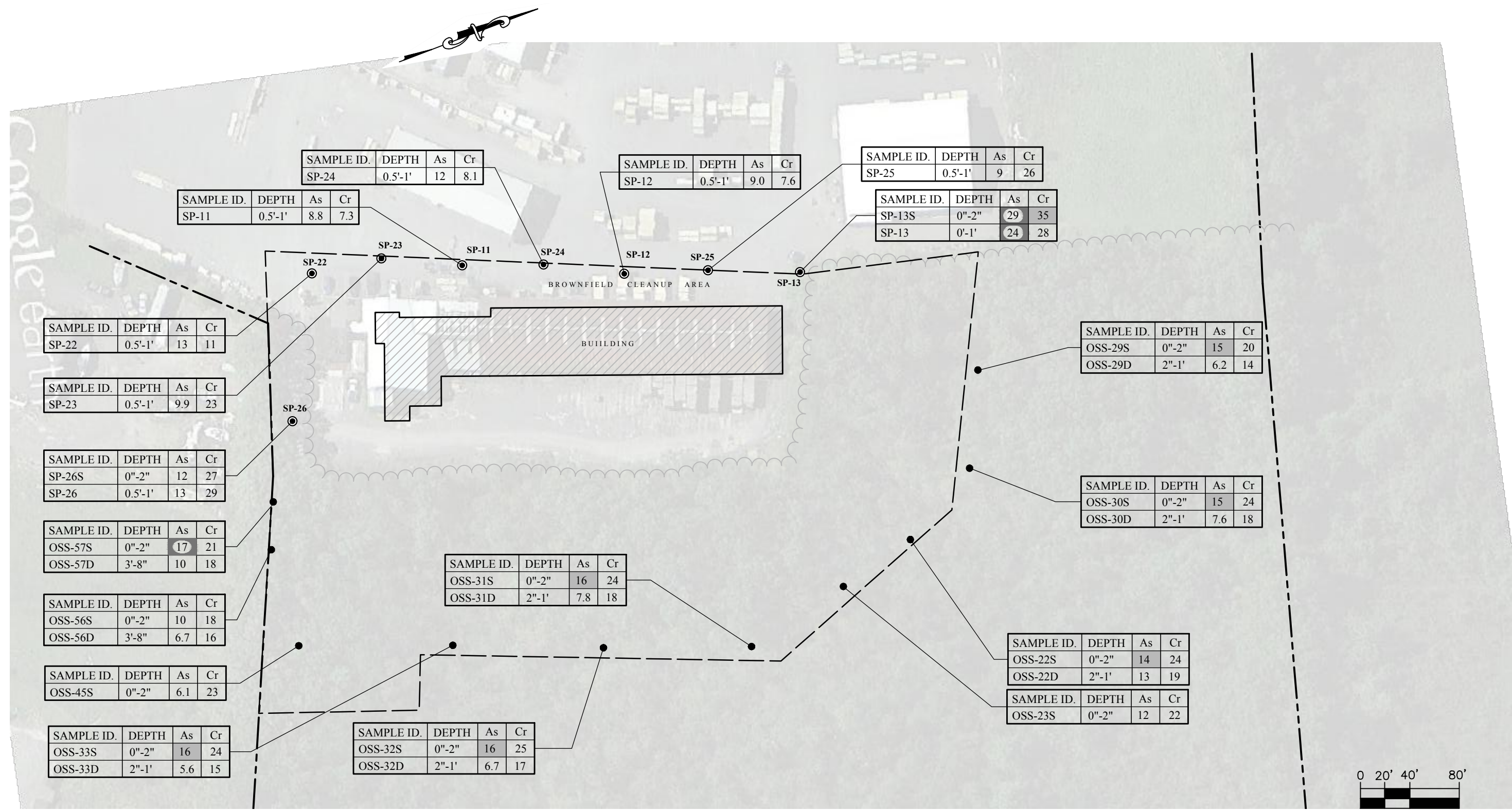
24 Wade Road • Latham, New York 12110

BCA AREA  
PROTECTIVE COVER SYSTEM DETAILS  
NORTHEAST TREATERS  
SCHOHARIE TURNPIKE

TOWN OF ATHENS

GREENE CO., N.Y.

PROJ. No.: 2014-08 | DATE: 07/13/2016 | SCALE: AS NOTED | DWG. NO. 2014-08102 | FIGURE 3



NOTES

ALL VALUES IN MG/KG  
LOCATIONS OSS-20 THROUGH OSS-45 SAMPLED ON 6/16/2015  
LOCATIONS OSS-56 AND OSS-57 SAMPLED ON 7/23/2015

LEGEND

As	Cr
13 mg/kg	30 mg/kg
16 mg/kg	1500 mg/kg

BCA BOUNDARY LINE  
PROPERTY LINE  
EDGE OF WOODS  
APPROXIMATE SOIL SAMPLE LOCATION  
As = ARSENIC Cr = CHROMIUM  
LIGHT GRAY INDICATES EXCEEDANCE OF  
UNRESTRICTED USE SOIL CLEANUP  
OBJECTIVES  
DARK GRAY INDICATES EXCEEDANCE OF  
COMMERCIAL USE SOIL CLEANUP  
OBJECTIVES

**STERLING**  
Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

REMEDIAL INVESTIGATION  
END POINT SAMPLE LOCATIONS  
NORTHEAST TREATERS  
SCHOHARIE TURNPIKE

TOWN OF ATHENS

GREENE CO., N.Y.



S:\Drawings\2014-08 - Northeast Treaters of New York - Athens NY\2014-08028\_F-5 - DripPadSummary (FER).dwg CAD 7/13/2016 11:35 AM



SAMPLE I.D. (DEPTH)	ARSENIC	CHROMIUM
S-1 A (1'-2')	1430.0	1060.0
S-1 B (2'-3')	95.3	316.0
S-1 C (3'-4')	6.7	20.6
S-1 D (4'-5')	17.1	37.3
S-1 E (5'-6')	9.2	25.6
ALL RESULTS EXPRESSED IN mg/kg		

SAMPLE I.D. (DEPTH)	ARSENIC	CHROMIUM
S-2 A (1'-2')	26.0	11.7
S-2 B (2'-3')	10.1	20.8
S-2 C (3'-4')	8.0	17.3
S-2 D (4'-5')	7.2	17.3
S-2 E (5'-6')	8.4	16.7
ALL RESULTS EXPRESSED IN mg/kg		

SAMPLE I.D. (DEPTH)	ARSENIC	CHROMIUM
S-3 A (1'-2')	56.8	76.5
S-3 B (2'-3')	7.5	24.9
S-3 C (3'-4')	9.0	29.8
S-3 D (4'-5')	6.7	19.9
S-3 E (5'-6')	7.0	22.9
ALL RESULTS EXPRESSED IN mg/kg		

SAMPLE I.D. (DEPTH)	ARSENIC	CHROMIUM
S-4 A (1'-2')	78.0	55.0
S-4 B (2'-3')	39.7	66.8
S-4 C (3'-4')	53.2	46.2
S-4 D (4'-5')	64.1	40.7
S-4 E (5'-6')	52.6	47.3
ALL RESULTS EXPRESSED IN mg/kg		

SAMPLE I.D. (DEPTH)	ARSENIC	CHROMIUM
DP02 A (1'-3')	1360	1260
DP02 B (4'-5')	6.3	31.6
DP02 C (8'-9')	7.9	24.5
ALL RESULTS EXPRESSED IN mg/kg		

SAMPLE I.D. (DEPTH)	ARSENIC	CHROMIUM
DP01 FILL + (1'-3')	641.0	616.0
DP01 CLAY + (3'-4')	14.5	35.9
DP01 A (5'-6')	12.6	30.0
DP01 B (10'-11')	5.3	21.0
DP01 C (14'-15')	7.9	25.4
ALL RESULTS EXPRESSED IN mg/kg		

SAMPLE I.D. (DEPTH)	ARSENIC	CHROMIUM
DP04A (1'-3')	91.8	37.8
DP04B (3'-4')	6.8	29.7
DP04C (5'-6')	5.2	29.2
DP04D (10'-11')	5.9	27.6
DP04E (14'-15')	11.0	30.1
ALL RESULTS EXPRESSED IN mg/kg		

SAMPLE I.D. (DEPTH)	ARSENIC	CHROMIUM
DP03 FILL + (1'-3')	401	98.6
DP03 CLAY + (3'-4')	8.7	31.8
DP03 A (5'-6')	8.6	28.3
DP03 B (10'-11')	13.3	25.2
DP03 C (14'-15')	20.5	30.1
ALL RESULTS EXPRESSED IN mg/kg		

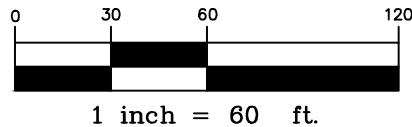
SAMPLE I.D. (DEPTH)	ARSENIC	CHROMIUM
SUMP FILL + (1'-3')	333.0	166.0
SUMP CLAY + (3'-4')	74.3	169
SUMP A (5'-6')	34.7	50.2
SUMP B (10'-11')	6.4	26.0
SUMP C (14'-15')	9.3	22.2
ALL RESULTS EXPRESSED IN mg/kg		

LEGEND

- SUMP-01 SUMP SAMPLE LOCATION (NOVEMBER 17-20 2014)
- ⊙ DP-01 DRIP PAD SAMPLE LOCATION (NOVEMBER 17-20 2014)
- S/C-01 DRIP PAD SAMPLE LOCATION (JUNE 23 2014)
- PROPERTY BOUNDARY

ARSENIC	CHROMIUM	
13 mg/kg	30 mg/kg	- SHADED VALUES INDICATE EXCEEDANCE OF RESPECTIVE SOIL CLEANUP OBJECTIVES
16 mg/kg	1500 mg/kg	- UNRESTRICTED USE
		- COMMERCIAL USE

+ Aerial Photographs of NYCR PART 375-6.8



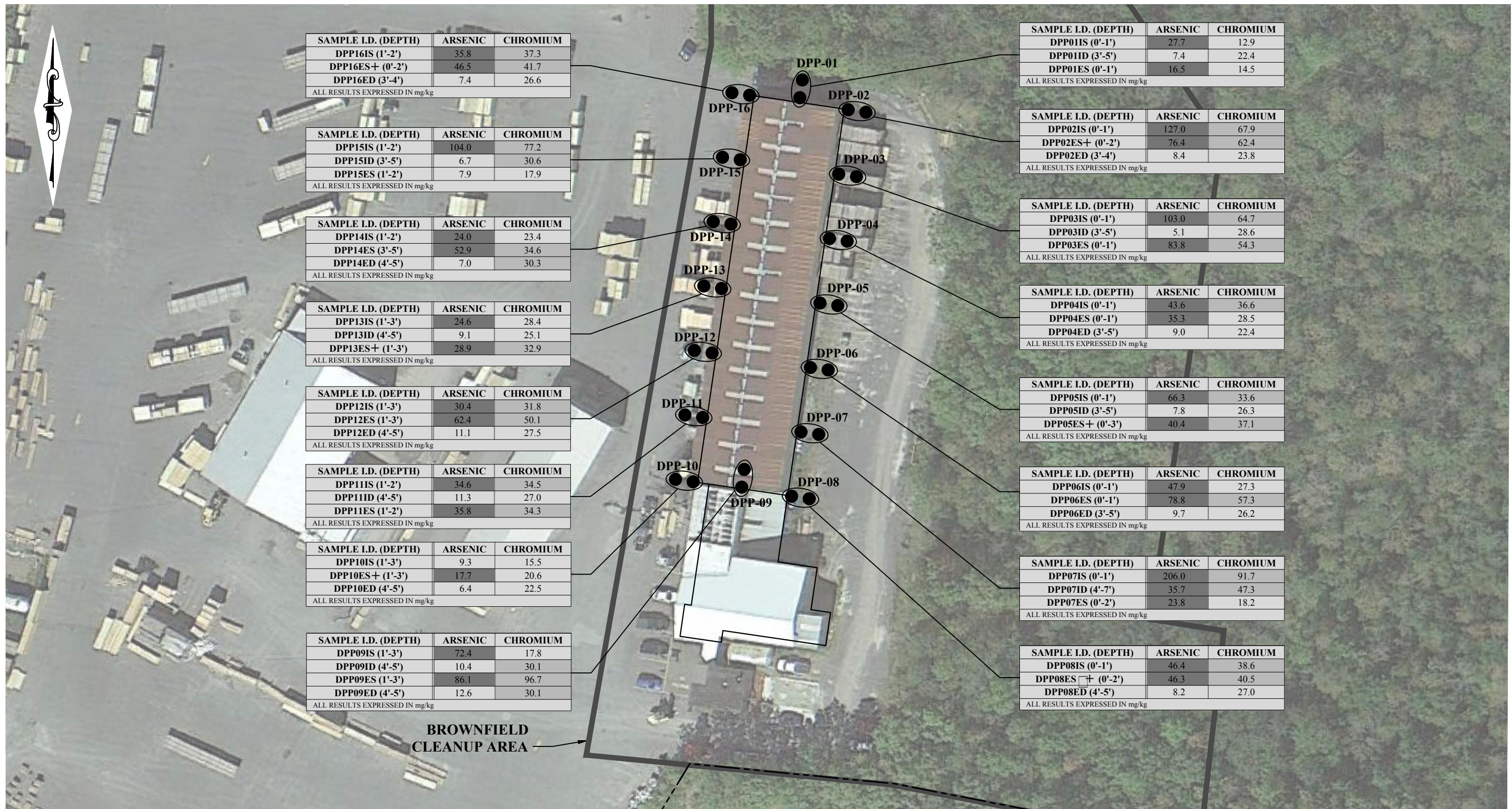
**STERLING**  
Sterling Environmental Engineering, P.C.  
24 Wade Road • Latham, New York 12110

SUMMARY OF CHROMIUM AND ARSENIC  
DETECTIONS AT DRIP PAD SAMPLE LOCATIONS  
**NORTHEAST TREATERS**  
SCHOHARIE TURNPIKE

TOWN OF ATHENS GREENE CO., N.Y.

PROJ. No.: 2014-08 | DATE: 07/13/2016 | SCALE: 1" = 60' | DWG. NO. 2014-08028 | FIGURE 5



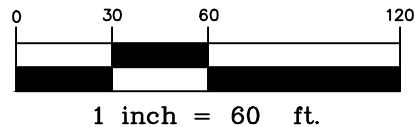


LEGEND

- DPP-01 DRIP PAD PERIMETER SAMPLE LOCATION NOVEMBER 17-20 2014
- PROPERTY BOUNDARY

ARSENIC	CHROMIUM	
13 mg/kg	30 mg/kg	- SHADED VALUES INDICATE EXCEEDANCE OF RESPECTIVE SOIL CLEANUP OBJECTIVES
16 mg/kg	1500 mg/kg	- UNRESTRICTED USE
		- COMMERCIAL USE

Site Visit Conducted By: Sterling Environmental Engineering, P.C.  
Covers the area of the DPP08ES and DPP08ES-Us and SCOs.  
+ Aerial Photo of the area of the DPP08ES and DPP08ES-Us and SCOs.



**STERLING**

Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

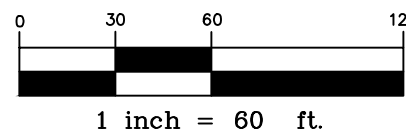
SUMMARY OF CHROMIUM AND ARSENIC  
DETECTIONS AT DRIP PAD PERIMETER SAMPLE LOCATIONS  
NORTHEAST TREATERS  
SCHOHARIE TURNPIKE

TOWN OF ATHENS

GREENE CO., N.Y.



 SP-01      SITE PERIMETER SAMPLE LOCATION (NOVEMBER 17-20, 2014 AND JANUARY 22, 2015)  
      PROPERTY BOUNDARY

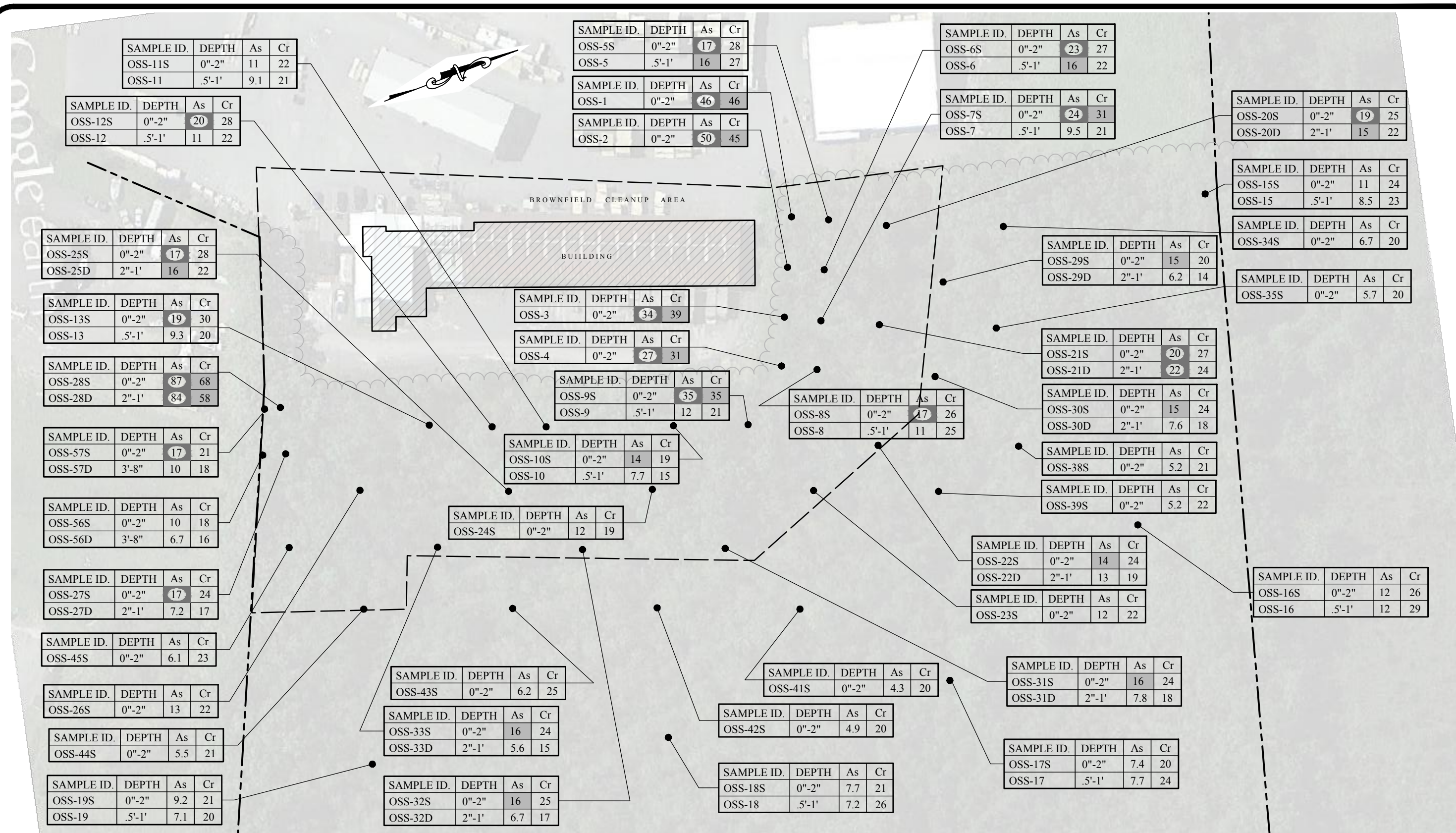


**STERLING**  
Sterling Environmental Engineering, P.C.  
24 Wade Road ♦ Latham, New York 12110

TOWN OF ATHENS GREENE CO., N.Y.

ARSENIC	CHROMIUM	- SHADED VALUES INDICATE EXCEEDANCE OF RESPECTIVE SOIL CLEANUP OBJECTIVES □
13 mg/kg	30 mg/kg	- UNRESTRICTED USE
16 mg/kg	1500 mg/kg	- COMMERCIAL USE





S+ERLING

Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

SUMMARY OF CHROMIUM AND ARSENIC  
DETECTIONS AT OSS SAMPLE LOCATIONS  
NORTHEAST TREATERS  
SCHOHARIE TURNPIKE

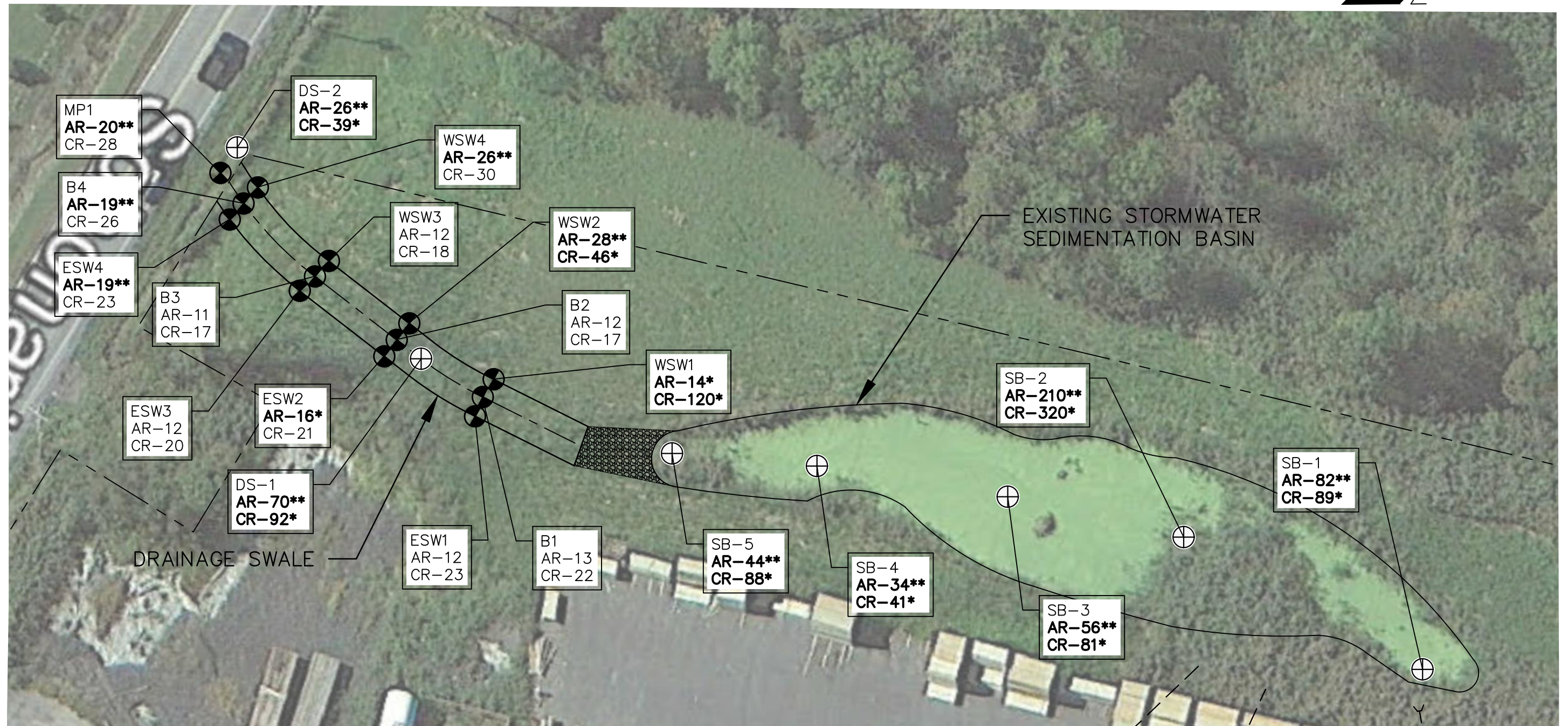
TOWN OF ATHENS

GREENE CO., N.Y.

PROJ. No.: 2014-08 | DATE: 07/13/2016 | SCALE: 1" = 80' | DWG. NO. 2014-08043 | FIGURE 8



S:\Drawings\2014-08 - Northeast Treeters of New York - Athens NY\2014-08101\_F-9 - Summary Swale (FER).dwg SWEET 3/2/2016 2:20 PM



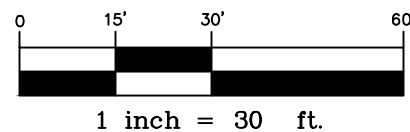
⊗ POST EXCAVATION SAMPLE  
(SAMPLED 12/7/15)

⊕ SEDIMENT BASIN SAMPLE  
(SAMPLED 8/17/15)

\* EXCEEDS UNRESTRICTED STANDARDS  
(AR - 13, CR - 30)

\*\* EXCEEDS COMMERCIAL STANDARDS  
(AR - 16, CR - 1,500)

AR-ARSENIC VALUE  
CR-CHROMIUM (TOTALS) VALUE  
ALL VALUES IN PPM



MAP REFERENCE: NEW YORK STATEWIDE DIGITAL ORTHOIMAGERY PROGRAM, PHOTOGRAPHY CIRCA 2013

**STERLING**

Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

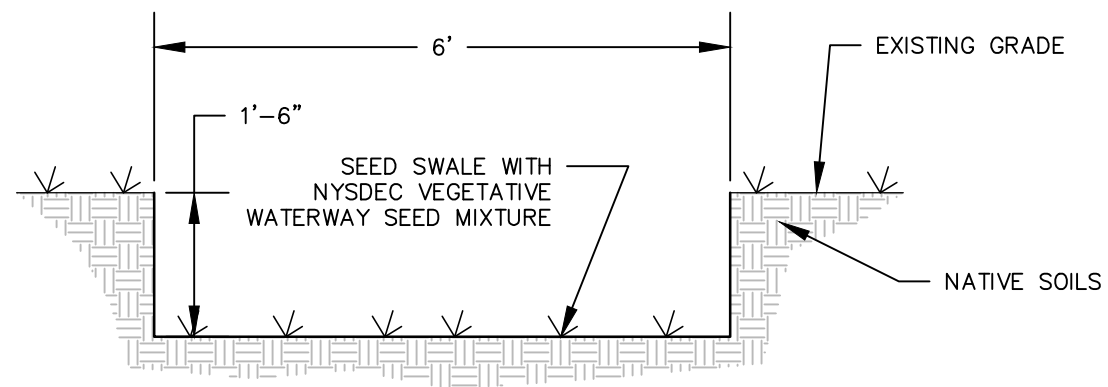
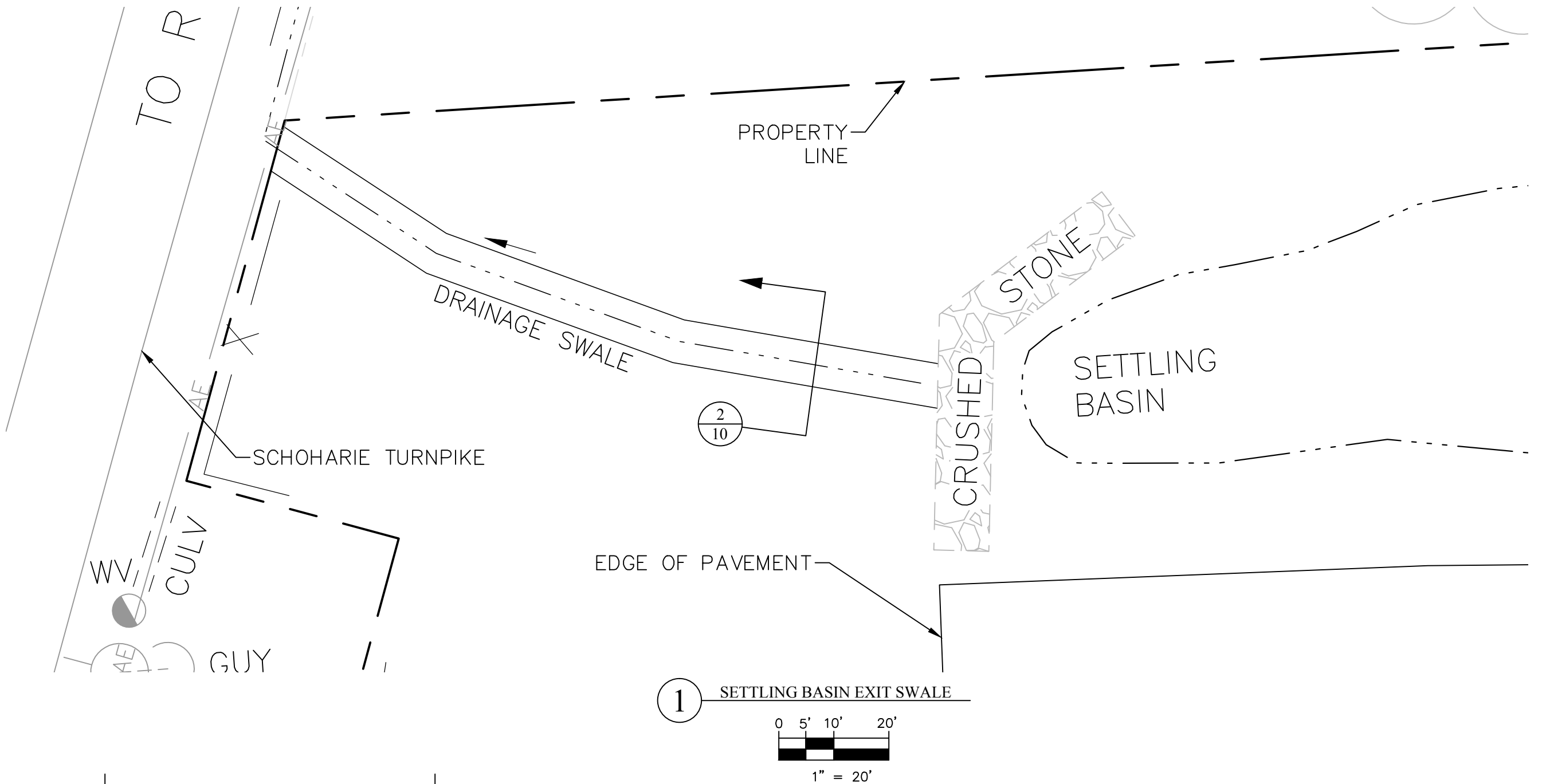
SUMMARY OF CHROMIUM AND ARSENIC DETECTIONS  
AT SETTLING BASIN AND EXIT SWALE  
**NORTHEAST TREETERS**  
SCHOHARIE TURNPIKE

TOWN OF ATHENS

GREENE CO., N.Y.

PROJ. No.: 2014-08 | DATE: 03/02/2016 | SCALE: 1" = 30' | DWG. NO. 2014-08101 | FIGURE

S:\Drawings\2014-08 - Northeast Treaters of New York - Athens NY\2014-08046\_F-10 - Exit Swale.dwg SWEET 7/14/2016 8:21 AM



2 DRAINAGE SWALE CROSS SECTION

0 6" 1' 2'

1" = 2'

**STERLING**

Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

DRAINAGE EXIT SWALE  
POST REMEDIATION  
NORTHEAST TREATERS  
SCHOHARIE TURNPIKE

TOWN OF ATHENS

GREENE CO., NEW YORK

PROJ. No.: 2014-08 | DATE: 06/22/2016 | SCALE: AS NOTED | DWG. NO. 2014-08046 | FIGURE 10

## **APPENDIX A**

### **SURVEY MAP, METES AND BOUNDS**



- DRAWING REFERENCES
- "Survey and Map of Lands Property Conveyed by Erich A. Schubert & Karl O. Nie to Cross, Austin & Ireland Lumber Co.", prepared by Frank Ambrosio, dated February 1975, and filed on May 16, 1975 in the Greene County Clerk's Office in EASI-H 123-1098.
  - "Survey and Map of Lands of David Hazen", Prepared by Santo Associates, P.C., dated November 5, 1995, drawing number 3917.
  - "Proposed Boundary Line Change Between Tax Parcels 104.00-4-30 and 104.00-4-40 Prepared for Northeast Treaters, LLC", prepared by Ostertag Land Surveying, P.C., dated May 27, 2015, and revised through July 07, 2015, drawing number 5596.
  - See Sheet 2 of 2 for drawing references 4 to 9.
  - "Site Plan Proposed Treatment Building Northeast Treaters of New York, LLC", prepared by K.A. Martin Engineer, PLLC, dated November 2013 and revised through April 18, 2014, PRO # 13-019 Sheets 1 through 6.

LEGEND	
UTILITY POLE	UP / 12872
GUY WIRE	
CATCH BASIN	CB
WATER VALVE	WV
LIGHT POLE	LP
HYDRANT	HYD
ELEC TRANSFORMER	TR
GAS PRESURE REDUCER	GPR
PROPERTY LINE	
SANITARY SEWER LINE	S
CULVERT	
STORM DRAIN	
CHAIN LINK FENCE	X
OVERHEAD WIRES	AE
UNDERGROUND WIRES	UE
WATER LINE	W
GAS LINE	G

Legal Description of the BCA

A portion of a parcel or piece of land situate, lying and being in the Town of Athens, County of Greene and State of New York, said property is shown on a map entitled "Brownfield Cleanup Program Site Prepared for Northeast Treaters of New York, LLC", prepared by Santo Associates Land Surveying and Engineering, PC, dated June 8, 2016, and revised through July 14, 2016, drawing number 7892-BCA said portion is more particularly described as follows:

Beginning at a point marked by an iron rebar found at the most northerly corner of lands now or formerly of Charles and Heather Ford, Liber 731 page 176, said point of beginning is N45°12'01"E a distance of 262.63 feet from the northeasterly side of Schoharie Turnpike;

Proceeding thence through lands now or formerly of Northeast Treaters of New York, LLC, Liber 848, page 62, the following eight courses and distances:

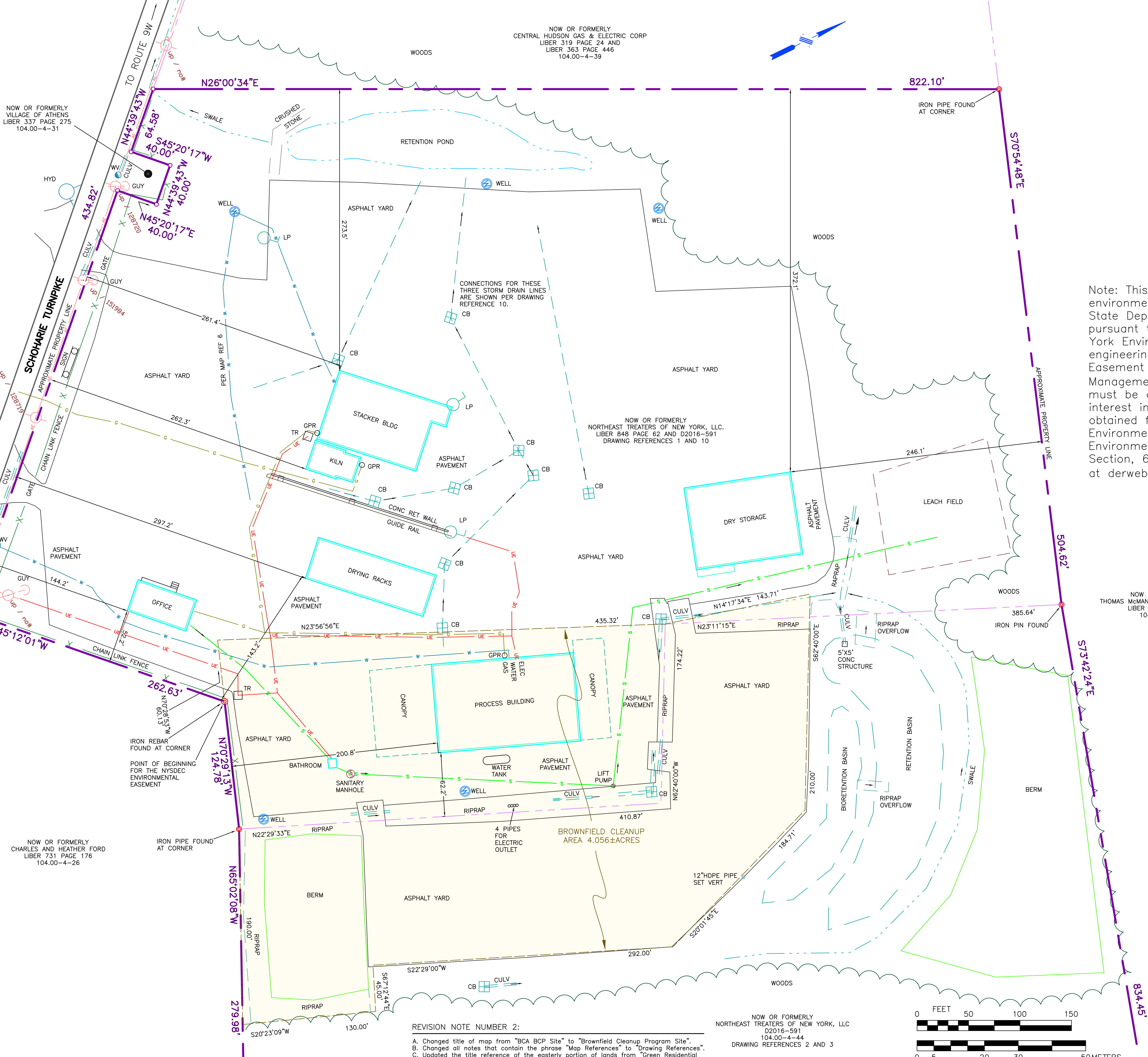
- N70°28'53"W a distance of 60.13 feet to a point,
- N23°56'56"E a distance of 435.32 feet to a point,
- N14°17'34"E a distance of 143.71 feet to a point,
- S62°40'00"E a distance of 210.00 feet to a point,
- S20°01'45"E a distance of 184.71 feet to a point,
- S22°29'00"W a distance of 292.00 feet to a point,
- S67°12'44"E a distance of 45.00 feet to a point and
- S20°23'09"W a distance of 130.00 feet to a point on the northerly line of the aforementioned Charles and Heather Ford;

Thence the following two courses along lands of said Ford:

- N65°02'08"W a distance of 190.00 feet to a point marked by an iron pipe found and
- N70°29'13"W a distance of 124.78 feet to the point and place of beginning.

Containing 4.056 acres of land be it the same more or less.

End of description.



Note: This property is subject to an environmental easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the New York Environmental Conservation Law. The engineering and institutional controls for this Easement are set forth in the Site Management Plan (SMP). A copy of the SMP must be obtained by any party with an interest in the property. The SMP can be obtained from NYS Department of Environmental Conservation, Division of Environmental Remediation, Site Control Section, 625 Broadway, Albany, NY 12233 or at [derweb@dec.ny.gov](mailto:derweb@dec.ny.gov)

- MAP NOTES
- Subject to any rights of way or easements affecting surveyed premise.
  - Subject to the rights of the public in and to any lands lying within the highway bounds of Schoharie Turnpike.
  - North orientation and bearing base per drawing reference 1.
  - This drawing was prepared from an actual field survey performed June 28, 2016.
  - Underground structures and/or utilities shown hereon have been plotted from a combination of the following: surface structures, cuts in the pavement that align with surface structures, painted pavement markings and the physical pointing out of said utility lines by Mr. Greg Christy, (VP of Operations at Northeast Treaters of New York, LLC). The actual location of any underground structure and/or utility may vary. There may be additional underground structures and/or utilities unknown to the undersigned. The location of underground structures and/or utilities are not certified.
  - Site address: 796 Schoharie Turnpike, Athens, NY 12015.
  - Site area = 32.224± acres.
  - See Sheet 2 of 2 (ALTA/NSPS Land Title Survey) for information on the Title Survey of the entire site.

CERTIFICATION

To the following three parties only:

- Northeast Treaters of New York, LLC
- Greene County Industrial Development Agency
- Chicago Title Insurance Company

This is to certify that this map and the survey on which it is based was made in accordance with the 2016 Minimum Standard Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes items 2, 4, 6 and 13 of Table A thereof. The fieldwork was completed on June 28, 2016.

Jeff M. Ostertag, PLS

SHEET 1 OF 2

Certifications indicated hereon shall run only to the title company, governmental agency and lending institution listed hereon and to the assignees of the lending institution. Certifications are not transferable to additional institutions or subsequent owners.

Unauthorized alteration or addition to a survey map bearing licensed land surveyor's seal is a violation of Section 7209, subdivision 2 of the N.Y. State Education Law. Only Copies from the original of this survey marked with an original of the land surveyor's embossed seal shall be considered to be valid copies.

©2016 SANTO ASSOCIATES, P.C. "ALL RIGHTS RESERVED." "UNAUTHORIZED REPRODUCTION IS A VIOLATION OF APPLICABLE LAWS."

REVISIONS		
NO.	DATE:	NOTES:
1.	7/12/16	Changes per ALTA/NSPS survey of site.
2.	7/14/16	See Revision Note 2.

NOW OR FORMERLY  
NORTHEAST TREATERS OF NEW YORK, LLC  
D2016-591  
104.00-4-44  
DRAWING REFERENCES 2 AND 3

ONLY COPIES FROM THE ORIGINAL OF THIS SURVEY MARKED WITH AN ORIGINAL OF THE LAND SURVEYOR'S SIGNATURE IN RED SHALL BE CONSIDERED TO BE VALID COPIES.

Jeff M. Ostertag, L.S.  
License number 050101

**BROWNFIELD CLEANUP PROGRAM SITE**

PREPARED FOR

**NORTHEAST TREATERS OF NEW YORK, LLC**

**TOWN OF ATHENS  
COUNTY OF GREENE**

**STATE OF NEW YORK**



July 14, 2016

## A Description of Brownfield Cleanup Area on Lands of Northeast Treaters of New York, LLC

**A portion** of a parcel or piece of land situate, lying and being in the Town of Athens, County of Greene and State of New York, said property is shown on a map entitled "Brownfield Cleanup Program Site Prepared for Northeast Treaters of New York, LLC", prepared by Santo Associates Land Surveying and Engineering, PC, dated June 8, 2016, and revised through July 14, 2016, drawing number 7892-BCA said portion is more particularly described as follows:

**Beginning** at a point marked by an iron rebar found at the most northerly corner of lands now or formerly of Charles and Heather Ford, Liber 731 page 176, said point of beginning is N45°12'01"E a distance of 262.63 feet from the northeasterly side of Schoharie Turnpike;

**Proceeding** thence through lands now or formerly of Northeast Treaters of New York, LLC, Liber 848, page 62, the following eight courses and distances:

1. N70°28'53"W a distance of 60.13 feet to a point,
2. N23°56'56"E a distance of 435.32 feet to a point,
3. N14°17'34"E a distance of 143.71 feet to a point,
4. S62°40'00"E a distance of 210.00 feet to a point,
5. S20°01'45"E a distance of 184.71 feet to a point,
6. S22°29'00"W a distance of 292.00 feet to a point,
7. S67°12'44"E a distance of 45.00 feet to a point and
8. S20°23'09"W a distance of 130.00 feet to a point on the northerly line of the aforementioned Charles and Heather Ford;

**Thence** the following two courses along lands of said Ford:

1. N65°02'08"W a distance of 190.00 feet to a point marked by an iron pipe found and
2. N70°29'13"W a distance of 124.78 feet to the point and place of beginning.

**Containing** 4.056 acres of land be it the same more or less.

**End** of description.

**APPENDIX B**

**DIGITAL COPY OF FER  
(PROVIDED ON CD)**

## **APPENDIX C**

### **ENVIRONMENTAL EASEMENT & PROOF OF FILING**

**TO BE PROVIDED AT LATER DATE**

## **APPENDIX D**

### **REMEDIATION RELATED PERMITS AND APPROVALS**

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Office of Environmental Quality, Region 4

1130 North Westcott Road, Schenectady, NY 12306-2014

P: (518) 357-2045 | F: (518) 357-2398

www.dec.ny.gov

November 20, 2015

Greg Christy, Northeast Treaters  
Northeast Treaters of New York, LLC  
796 Schoharie Turnpike  
Athens, NY 12015

Re: Remedial Work Plan  
Addendum Comments  
Northeast Treaters, C420029

The NYSDEC and NYSDOH have reviewed your submitted Remedial Work Plan Addendum and have the following comments.

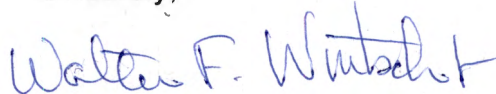
1. Section 2.2.2 – The statement “Northern stormwater line (contamination) demonstrate that the primary source of arsenic and chromium is from the storage area west of the site and not from the site itself” should be removed, as it does not reflect current understandings based on data presented and previous discussions with Northeast Treaters, NYSDEC and NYSDOH.
2. Section 2.4 – More specification is needed on the measures in place which prevent exposure to the sediment in the stormwater basin.
3. Section 5.3 – Concerning the statement “The facility’s stormwater basin effectively removes sediment from stormwater. Human exposure to basin sediment is remote because the basin contains static water year round.” The first portion of this statement should be removed as the contaminated sediment downstream demonstrates that the basin does not effectively remove sediment. The second sentence should have the word “static” removed.
4. Section 6.1.2 – A surface sample (0-2”) adjacent to the most down gradient edge of excavation is required.
5. Section 6.1.2 –Concerning post-excavation confirmation sampling; the sampling results should be compared to unrestricted and site-specific soil clean-up objectives. Additionally, hexavalent and trivalent chromium should be included in confirmation sampling analysis.



Department of  
Environmental  
Conservation

The Remedial Work Plan Addendum is approved contingent on these changes.  
Please incorporate these changes and resubmit the Addendum.  
Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Walter F. Wintsch, Jr." with a stylized flourish at the end.

Walter F. Wintsch, Jr.  
Engineering Geologist 2  
NYSDEC, Region 4

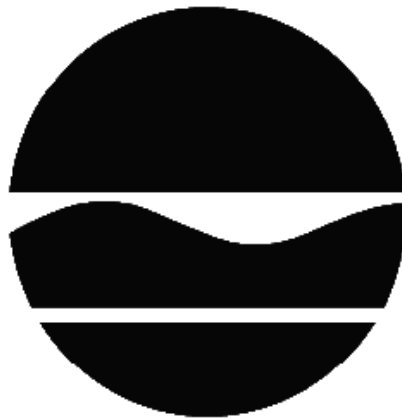
ecc Vedran Cirkovic, Sterling  
Tom Johnson, Sterling  
Brad Wenskoski, NYSDOH  
Scarlett McLaughlin, NYSDOH  
Kevin Young, Young and Sommers  
Jim Quinn, NYSDEC

WW:jh\letter.2015-11-20.remedial work plan.Northeast Treaters\_C420029

# DECISION DOCUMENT

---

Northeast Treaters of New York, LLC  
Brownfield Cleanup Program  
Athens, Greene County  
Site No. C420029  
December 2015



Prepared by  
Division of Environmental Remediation  
New York State Department of Environmental Conservation



# **DECLARATION STATEMENT - DECISION DOCUMENT**

---

Northeast Treators of New York, LLC  
Brownfield Cleanup Program  
Athens, Greene County  
Site No. C420029  
December 2015

## **Statement of Purpose and Basis**

This document presents the remedy for the Northeast Treators of New York, LLC site, a brownfield cleanup site. The remedial program was chosen in accordance with the New York State Environmental Conservation Law and Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375.

This decision is based on the Administrative Record of the New York State Department of Environmental Conservation (the Department) for the Northeast Treators of New York, LLC site and the public's input to the proposed remedy presented by the Department.

## **Description of Selected Remedy**

The elements of the selected remedy are as follows:

### **1. Remedial Design**

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows;

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

## 2. Cover System

A site cover will be required to allow for commercial use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of one foot of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

## 3. Excavation

Off-site soil which has been impacted by overflow from the storm water settling basin in excess of residential SCOs, as defined by 6 NYCRR Part 375-6.8, will be excavated. Approximately forty five (45) cubic yards of contaminated soil will be removed and consolidated onsite under the cover system. Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) will be brought in to replace the excavated soil and establish the designed grades at the site.

## 4. Removal of all Sediment from Catch Basins

Sediment will be removed from site-impacted storm water catch basins on and downstream of the site. All sediment removed from the catch basins will be consolidated on-site in areas subject to the final cover system or be disposed of in accordance with Federal and NYS regulations.

## 5. Institutional Control

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- . require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8(h)(3);
- . allow the use and development of the controlled property for commercial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- . require compliance with the Department approved Site Management Plan.

Note controlled property includes the entire BCP site as well as "off-site" areas of the greater Northeast Treaters facility which have been impacted by site-related contamination, including the settling basin and the basin exit swale.

## 6. Site Management Plan

A Site Management Plan is required, which includes the following:

- a. An Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and off-site area on the greater Northeast Treaters facility that have been impacted by site-related contamination, details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place.

Institutional Controls: The Environmental Easement described above in Paragraph 5.

Engineering Controls: The cover system described above in Paragraph 2.

This plan includes, but may not be limited to:

- . an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
  - . descriptions of the provisions of the environmental easement including any land use restrictions;
  - . provisions for the management and inspection of the identified engineering controls;
  - . maintaining site access controls and Department notification; and
  - . The steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.
- b. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
- . monitoring of the soil/sediment downgradient of the settling basin to assess the performance and effectiveness of the remedy; and
  - . a schedule of monitoring and frequency of submittals to the Department.
- c. A Closure Plan for the existing facility storm water settling basin and any areas downgradient of the basin that may have received contaminated overflow.

### **Declaration**

The remedy conforms with promulgated standards and criteria that are directly applicable, or that are relevant and appropriate and takes into consideration Department guidance, as appropriate. The remedy is protective of public health and the environment.

December 31, 2015

---

Date




---

Robert J. Cozzy, Director  
Remedial Bureau B

# **DECISION DOCUMENT**

Northeast Treaters of New York, LLC  
Athens, Greene County  
Site No. C420029  
December 2015

---

## **SECTION 1: SUMMARY AND PURPOSE**

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has selected a remedy for the above referenced site. The disposal of contaminants at the site has resulted in threats to public health and the environment that would be addressed by the remedy. The disposal or release of contaminants at this site, as more fully described in this document, has contaminated various environmental media. Contaminants include hazardous waste and/or petroleum.

The New York State Brownfield Cleanup Program (BCP) is a voluntary program. The goal of the BCP is to enhance private-sector cleanups of brownfields and to reduce development pressure on "greenfields." A brownfield site is real property, the redevelopment or reuse of which may be complicated by the presence or potential presence of a contaminant.

The Department has issued this document in accordance with the requirements of New York State Environmental Conservation Law and 6 NYCRR Part 375. This document is a summary of the information that can be found in the site-related reports and documents.

## **SECTION 2: CITIZEN PARTICIPATION**

The Department seeks input from the community on all remedies. A public comment period was held, during which the public was encouraged to submit comment on the proposed remedy. All comments on the remedy received during the comment period were considered by the Department in selecting a remedy for the site. Site-related reports and documents were made available for review by the public at the following document repository:

D. R. Evarts Library  
Attn: Bonnie Snyder  
80 Second Street  
Athens, NY 12015  
Phone: (518) 945-1417

### **Receive Site Citizen Participation Information By Email**

Please note that the Department's Division of Environmental Remediation (DER) is "going paperless" relative to citizen participation information. The ultimate goal is to distribute citizen

participation information about contaminated sites electronically by way of county email listservs. Information will be distributed for all sites that are being investigated and cleaned up in a particular county under the State Superfund Program, Environmental Restoration Program, Brownfield Cleanup Program, Voluntary Cleanup Program, and Resource Conservation and Recovery Act Program. We encourage the public to sign up for one or more county listservs at <http://www.dec.ny.gov/chemical/61092.html>

### **SECTION 3: SITE DESCRIPTION AND HISTORY**

**Location:** The site is located in a rural area on the north side of the Schoharie Turnpike (Route 28) approximately 0.75 miles east of Route 9W in the Town of Athens. The BCP site, which consists of the former drip pad, surrounding asphalt and a portion of adjacent undeveloped land, is bounded by agricultural lands to the north, undeveloped land to the west, the remainder of the Northeast Treaters facility to the east and County Route 28, Peckam Industries and Amerigas to the south.

**Site Features:** The original facility consisted of three buildings: a lumber stacking building, the process building and the maintenance building. The process building, recently demolished, contained a drip pad and offices. The Brownfield Cleanup Program (BCP) site is limited to the eastern most portion of the Northeast Treaters facility, specifically the area of the former process building and property to the north and east.

The BCP site consists of approximately 1.68 acres of developed land and 2.22 acres of undeveloped woodland for a total size of 3.9 acres. A storm water collection system transports runoff water from the site to a settling basin located on the western portion of the facility (i.e. off of the BCP site). The basin has an outflow, which is referred to as a swale located to the south and west of the basin.

**Current zoning and land use:** The site is used as pressure treated wood manufacturing facility and is zoned LI-2, Light Industrial. The surrounding parcels are used for agriculture, light industry or is forested.

**Past Use of the Site:** The facility was constructed in 1977 and was originally a saw mill. Atlantic Wood Industries, Inc., began operating as a pressure treating wood manufacturing facility in 1979. The facility traditionally engaged in treating architectural and dimensional lumber with a preservative solution of chromated copper arsenate. The facility ceased using chromated copper arsenate preservative in 2003.

**Site Geology and Hydrology:** The site slopes slightly towards the west. Predominant soils in the vicinity of the site consists of dark brown to dark gray clay and silty clay. The bedrock in the vicinity of the site is shale and is estimated to exist at a depth ranging from 60 to 100 feet. The nearest surface water, a tributary to Murderers Creek, is located approximately 1,000 feet to the north of the site. Murderers Creek, a DEC-regulated waterbody (Class C), is located approximately 1.6 miles to the north of the site and flows east towards Sleepy Hollow Lake.

Perched water is occasionally present in the fill material immediately above the native clay.

During intrusive ground investigations, perched water was encountered at some locations, but not all. Information gained during the site investigation indicates that the perched water does not migrate, but mostly dissipates through evapotranspiration. Groundwater was not encountered in the underlying clay during intrusive ground investigations. Groundwater exists in the bedrock beneath the site and water levels recorded during the installation of facility water wells indicate piezometric levels within the boundaries of the Site are between ten (10) and 19.33 feet below ground surface. The regional groundwater flow direction is anticipated to be west to southwest, based on interpretation of topographic maps.

As discussed above, all surface water runoff is collected by the site-wide storm water collection system and directed to the settling basin to the west of the facility.

A site location map is attached as Figure 1.

#### **SECTION 4: LAND USE AND PHYSICAL SETTING**

The Department may consider the current, intended, and reasonably anticipated future land use of the site and its surroundings when evaluating a remedy for soil remediation. For this site, alternatives (or an alternative) that restrict(s) the use of the site to commercial use (which allows for industrial use) as described in Part 375-1.8(g) were/was evaluated in addition to an alternative which would allow for unrestricted use of the site.

A comparison of the results of the Remedial Investigation (RI) to the appropriate standards, criteria and guidance values (SCGs) for the identified land use and the unrestricted use SCGs for the site contaminants is available in the RI Report.

#### **SECTION 5: ENFORCEMENT STATUS**

The Applicant under the Brownfield Cleanup Agreement is a Participant. The Applicant has an obligation to address on-site and off-site contamination. Accordingly, no enforcement actions are necessary.

#### **SECTION 6: SITE CONTAMINATION**

##### **6.1: Summary of the Remedial Investigation**

A remedial investigation (RI) serves as the mechanism for collecting data to:

- characterize site conditions;
- determine the nature of the contamination; and
- assess risk to human health and the environment.

The RI is intended to identify the nature (or type) of contamination which may be present at a site and the extent of that contamination in the environment on the site, or leaving the site. The RI reports on data gathered to determine if the soil, groundwater, soil vapor, indoor air, surface water or sediments may have been contaminated. Monitoring wells are installed to assess

groundwater and soil borings or test pits are installed to sample soil and/or waste(s) identified. If other natural resources are present, such as surface water bodies or wetlands, the water and sediment may be sampled as well. Based on the presence of contaminants in soil and groundwater, soil vapor will also be sampled for the presence of contamination. Data collected in the RI influence the development of remedial alternatives. The RI report is available for review in the site document repository and the results are summarized in section 6.3.

The analytical data collected on this site includes data for:

- groundwater
- soil
- sediment

#### **6.1.1: Standards, Criteria, and Guidance (SCGs)**

The remedy must conform to promulgated standards and criteria that are directly applicable or that are relevant and appropriate. The selection of a remedy must also take into consideration guidance, as appropriate. Standards, Criteria and Guidance are hereafter called SCGs.

To determine whether the contaminants identified in various media are present at levels of concern, the data from the RI were compared to media-specific SCGs. The Department has developed SCGs for groundwater, surface water, sediments, and soil. The NYSDOH has developed SCGs for drinking water and soil vapor intrusion. For a full listing of all SCGs see: <http://www.dec.ny.gov/regulations/61794.html>

#### **6.1.2: RI Results**

The data have identified contaminants of concern. A "contaminant of concern" is a contaminant that is sufficiently present in frequency and concentration in the environment to require evaluation for remedial action. Not all contaminants identified on the property are contaminants of concern. The nature and extent of contamination and environmental media requiring action are summarized below. Additionally, the RI Report contains a full discussion of the data. The contaminant(s) of concern identified at this site is/are:

arsenic

chromium

The contaminant(s) of concern exceed the applicable SCGs for:

- soil
- sediment

#### **6.2: Interim Remedial Measures**

An interim remedial measure (IRM) is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before issuance of the Decision Document.

There were no IRMs performed at this site during the RI.

### **6.3: Summary of Environmental Assessment**

This section summarizes the assessment of existing and potential future environmental impacts presented by the site. Environmental impacts may include existing and potential future exposure pathways to fish and wildlife receptors, wetlands, groundwater resources, and surface water. The RI report presents a detailed discussion of any existing and potential impacts from the site to fish and wildlife receptors.

Soils were initially analyzed for volatile organic compounds (VOCs) semi-volatile organic compounds (SVOCs), metals, poly-chlorinated biphenyls (PCBs) and pesticides. From the sample results, only metals exceeded the Commercial Soil Cleanup Objectives and the contaminants of concern were determined to be arsenic and chromium. Initial samples collected during the RI were analyzed for hexavalent chromium and total chromium. Analysis showed that detections of hexavalent chromium were consistently a small percentage of the total chromium. Therefore, with regard to chromium samples only, the remainder of soil analysis were for total chromium, and result were compared to trivalent chromium SCOs to evaluate the magnitude and extent of chromium contamination at the Site.

Soil-Arsenic and chromium are found beneath the facility's historic drip pad, on the soil along the perimeter of the drip pad, and in the soil of the woodland property to the north and east. Contamination was also detected within catch basins both on the BCP site and off-site in portions of the storm water collection system hydraulically downgradient of the BCP site. Arsenic contamination exceeds the unrestricted (13ppm) soil cleanup objective (SCO) beneath the drip pad (maximum 1360 ppm), along the perimeter of the drip pad (maximum 206 ppm). Several sample locations immediately east of the site showed arsenic concentrations above unrestricted SCOs but below residential SCOs. Chromium also exceeds unrestricted (30 ppm) SCO beneath the drip pad(maximum 1260 ppm), and along the perimeter of the drip pad (maximum 96.7 ppm).

Additionally, soil samples were taken in the settling basin's outflow. The maximum sample result in the basin's outflow was 70 ppm (closest to the basin) with levels decreasing with distance from the basin.

Sediment-Sediment samples were taken off-site in the settling basin and analyzed for arsenic and chromium. The samples exceeded the unrestricted SCO for arsenic (maximum 210 ppm) and chromium maximum 320 ppm).

Groundwater-Four monitoring wells (MW-1 thru MW-4) were installed during the Remedial Investigation. The Remedial Investigation found perched water that was irregularly found and very limited in quantity. Only MW-1 developed enough water to be sampled, which was sampled for chromium and arsenic. Sample analysis determined that the perched water was not impacted by site contaminants. Additionally, the bedrock groundwater, while not hydraulically connected to the drip pad, was found not to have been impacted by site operations.



#### **6.4: Summary of Human Exposure Pathways**

This human exposure assessment identifies ways in which people may be exposed to site-related contaminants. Chemicals can enter the body through three major pathways (breathing, touching or swallowing). This is referred to as *exposure*.

Direct contact with contaminants in the soil is unlikely because the majority of the site is covered with pavement. Persons who enter the site and affected off-site areas could contact contaminants in the catch basins by accessing unimproved entry points, and the facility storm water settling basin and downgradient areas by walking on, digging or otherwise disturbing the soil and sediment in these areas.

#### **6.5: Summary of the Remediation Objectives**

The objectives for the remedial program have been established through the remedy selection process stated in 6 NYCRR Part 375. The goal for the remedial program is to restore the site to pre-disposal conditions to the extent feasible. At a minimum, the remedy shall eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the site through the proper application of scientific and engineering principles.

The remedial action objectives for this site are:

##### **Soil**

###### **RAOs for Public Health Protection**

- Prevent ingestion/direct contact with contaminated soil.

###### **RAOs for Environmental Protection**

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.

##### **Sediment**

###### **RAOs for Public Health Protection**

- Prevent direct contact with contaminated sediments.

###### **RAOs for Environmental Protection**

- Restore sediments to pre-release/background conditions to the extent feasible.

#### **SECTION 7: ELEMENTS OF THE SELECTED REMEDY**

The alternatives developed for the site and the evaluation of the remedial criteria are presented in the Alternative Analysis. The remedy is selected pursuant to the remedy selection criteria set forth in DER-10, Technical Guidance for Site Investigation and Remediation and 6 NYCRR Part 375.

The selected remedy is a Track 4: Restricted use with site-specific soil cleanup objectives remedy.

The selected remedy is referred to as the Protective Cover, Excavation of Catch Basins/Swale, ICs and SMP remedy.

The elements of the selected remedy, as shown in Figure 2, are as follows:

### 1. Remedial Design

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows;

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.

### 2. Cover System

A site cover will be required to allow for commercial use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper one foot of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of one foot of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

### 3. Excavation

Off-site soil which has been impacted by overflow from the storm water settling basin in excess of residential SCOs, as defined by 6 NYCRR Part 375-6.8, will be excavated. Approximately forty five (45) cubic yards of contaminated soil will be removed and consolidated onsite under the cover system. Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) will be brought in to replace the excavated soil and establish the designed grades at the site.

#### 4. Removal of all Sediment from Catch Basins

Sediment will be removed from site-impacted storm water catch basins on and downstream of the site. All sediment removed from the catch basins will be consolidated on-site in areas subject to the final cover system or be disposed of in accordance with Federal and NYS regulations.

#### 5. Institutional Control

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- . require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8(h)(3);
- . allow the use and development of the controlled property for commercial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
- . require compliance with the Department approved Site Management Plan.

Note controlled property includes the entire BCP site as well as "off-site" areas of the greater Northeast Treaters facility which have been impacted by site-related contamination, including the settling basin and the basin exit swale.

#### 6. Site Management Plan

A Site Management Plan is required, which includes the following:

- a. An Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and off-site area on the greater Northeast Treaters facility that have been impacted by site-related contamination, details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place.

Institutional Controls: The Environmental Easement described above in Paragraph 5.

Engineering Controls: The cover system described above in Paragraph 2.

This plan includes, but may not be limited to:

- . an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- . descriptions of the provisions of the environmental easement including any land use restrictions;
- . provisions for the management and inspection of the identified engineering controls;
- . maintaining site access controls and Department notification; and
- . The steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

- b. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:

- . monitoring of the soil/sediment downgradient of the settling basin to assess the performance and effectiveness of the remedy; and
  - . a schedule of monitoring and frequency of submittals to the Department.
- c. A Closure Plan for the existing facility storm water settling basin and any areas downgradient of the basin that may have received contaminated overflow.

**Town of Athens**  
2 First Street  
Athens, NY 12015

**Building Demolition and Removal Permit**

Tax Map #: 104.00-4-9

Permit #: 015-01

This notice, which must be prominently displayed on the property to which it pertains, indicates that a Building Demolition and Removal Permit has been issued to :

**North East Treaters**  
**796 Schoharie Tpk.**  
**Athens N.Y. 120165**

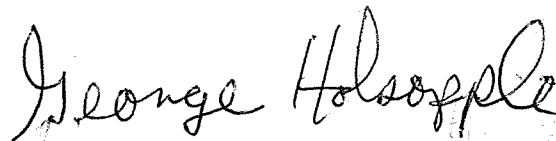
For Building Demolition and Removal at : **796 Schoharie Tpk. ,Town of Athens**

**Demolition – Old office & treatment building** All work shall be executed in strict compliance with the permit application, approved plans, the Uniform Fire Prevention and Building Codes, including all other laws, rules and regulations, which apply.

Permission is hereby granted to proceed with the demolition and removal as set forth in the specifications, plans. Specifications must be submitted for approval.

**NOTE :** this permit is good for **sixty (60) days** from the date of issue.

**Date: 06/29/15**



Code Enforcement Officer

## **TOWN OF ATHENS**

**2 First Street  
Athens, NY 12015  
(518) 945-2430**

## **BUILDING PERMIT**

**Tax ID # 104.00-4-30**

**Building Permit 15-24**

This notice, which must be prominently displayed on the property or premises to which it pertains, indicates that a Building Permit has been issued to:

**Name: BCI**

**Address: 20 Loudonville Road  
Albany, N.Y. 12205**

**Erect: New treatment building 230'x 88' 20,240 sq ft**

**AT: 796 Schoharie Tpk., Town of Athens**

All work shall be executed in strict compliance with the permit application, approved plans, the Uniform Fire Prevention and Building Codes, including all other laws, rules and regulations which apply. This Building Permit **DOES NOT** constitute authority to build in violation of any Federal, State, or Local Law or any other regulation.

**DO NOT** proceed beyond the points of the inspection report, until countersigned by the Code Enforcement Officer:

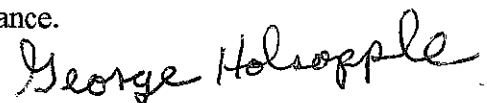
**> Inspection report is attached to this permit.**

Permission is hereby granted to proceed with the construction as set forth in the specifications, plans, or statements now on file in this department. Any amendments made to the original plans or specifications must first be submitted for approval.

**NOTE:** This permit is good for one (1) year from the date issued, or until a Certificate of Occupancy or Compliance is issued.

Building Permits shall become invalid unless the authorized work is commenced within six (6) months following the date of issuance.

**Date: 7/30/15**

  
Code Enforcement Officer

**Town of Athens  
Code Enforcement Office  
Construction Inspection  
518-945-2430**

Owner's Name: **BCI Construction Inc.**

**B/P 15-24**

Location: **796 Schoharie Tkp.**

Directions to Job Site:

Phone #

Date Received: **7/30/15**

Type of Inspection (Note Date and Initials)

**Rebar in place before pouring concrete**

Footers before pour (X)

Foundation walls (X)

Floor before pour (X)

Water proofing (X)

Framing Inspection (X)

Rough in of Plumbing & Electrical (X)

Insulation before enclosing (X)

Final Completion (X)

( ) Approved ( ) Conditionally ( ) Not Approved

Certificate of Occupancy (X)

Certificate of Compliance ( )

**C of O WILL NOT BE ISSUED WITH OUT A 911 ADDRESS**

Inspector's Signature:

*George Holmapple*

As owner/contractor, I have been informed and given a copy of the inspections required during construction. I will inform the Building Inspector of the required inspections during this construction.

Owner/Contractor: **BCI 20 Loudonville Rd. Albany, N.Y. 12204**

Cell

Phone # **518-426-3200**

## **APPENDIX E**

### **POST-EXCAVATION DRAINAGE SWALE SAMPLE RESULTS LETTER**





December 21, 2015

Mr. James A. Quinn, P.E.  
New York State Department of Environmental Conservation  
Region 4  
1130 North Westcott Road  
Schenectady, New York 12306

Subject: Post-Excavation Drainage Swale Sample Results  
Northeast Treaters of New York, LLC  
STERLING File #2014-08

Dear Mr. Quinn,

In accordance with the Remedial Work Plan Addendum (RWP Addendum) prepared for the subject site, Sterling Environmental Engineering, P.C. (STERLING) conducted post-excavation sampling following the excavation of the existing stormwater drainage swale located near the western property line of the Northeast Treaters of New York, LLC (Northeast Treaters) facility located at 796 Schoharie Turnpike in the Town of Athens, New York. Excavation activities and post-excavation sampling were conducted on December 7, 2015.

Comments were received from the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) prior to excavation activities and post excavation sampling. The NYSDEC was present onsite during the excavation of the drainage swale.

Post-excavation samples were collected by STERLING and consisted of four (4) soil samples at approximately equidistant intervals along the centerline of the excavation (B-1 through B-4), and two (2) corresponding sidewall samples on either side of each centerline sample at a depth of six (6) to twelve inches (WSW-1 through WSW-4 and ESW-1 through ESW-4). One (1) surface sample (MP-1) was collected adjacent to the most downgradient edge of excavation at a depth of 0-2" below grade as requested by NYSDEC and NYSDOH. Soil samples were analyzed for total arsenic and total chromium via USEPA Method 6010C and hexavalent chromium via USEPA Method 7196A. Sample results are presented in Figure 1 (Attachment 1). The analytical laboratory report is provided as Attachment 2.

Hexavalent chromium was not detected above the unrestricted use soil cleanup objective (SCO) or the laboratory's reporting limit. Detections of total chromium are one (1) to two (2) orders of magnitude greater in concentration when compared to the concentration of hexavalent chromium, if detected. Therefore, detected concentrations of total chromium are considered representative of trivalent chromium concentrations, and are compared to trivalent chromium SCOs in the attached Figure 1.

*"Serving our clients and the environment since 1993"*

---

24 Wade Road ♦ Latham, New York 12110 ♦ Tel: 518-456-4900 ♦ Fax: 518-456-3532  
E-mail: [sterling@sterlingenvironmental.com](mailto:sterling@sterlingenvironmental.com) ♦ Website: [www.sterlingenvironmental.com](http://www.sterlingenvironmental.com)

---

Northeast Treaters will proceed with the construction of the engineered drainage swale as described in the RWP Addendum. Please contact me should you have any questions.

Very truly yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.

A handwritten signature in black ink, reading "Thomas M. Johnson". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Thomas M. Johnson, CPG

Senior Hydrogeologist

[Thomas.Johnson@sterlingenvironmental.com](mailto:Thomas.Johnson@sterlingenvironmental.com)

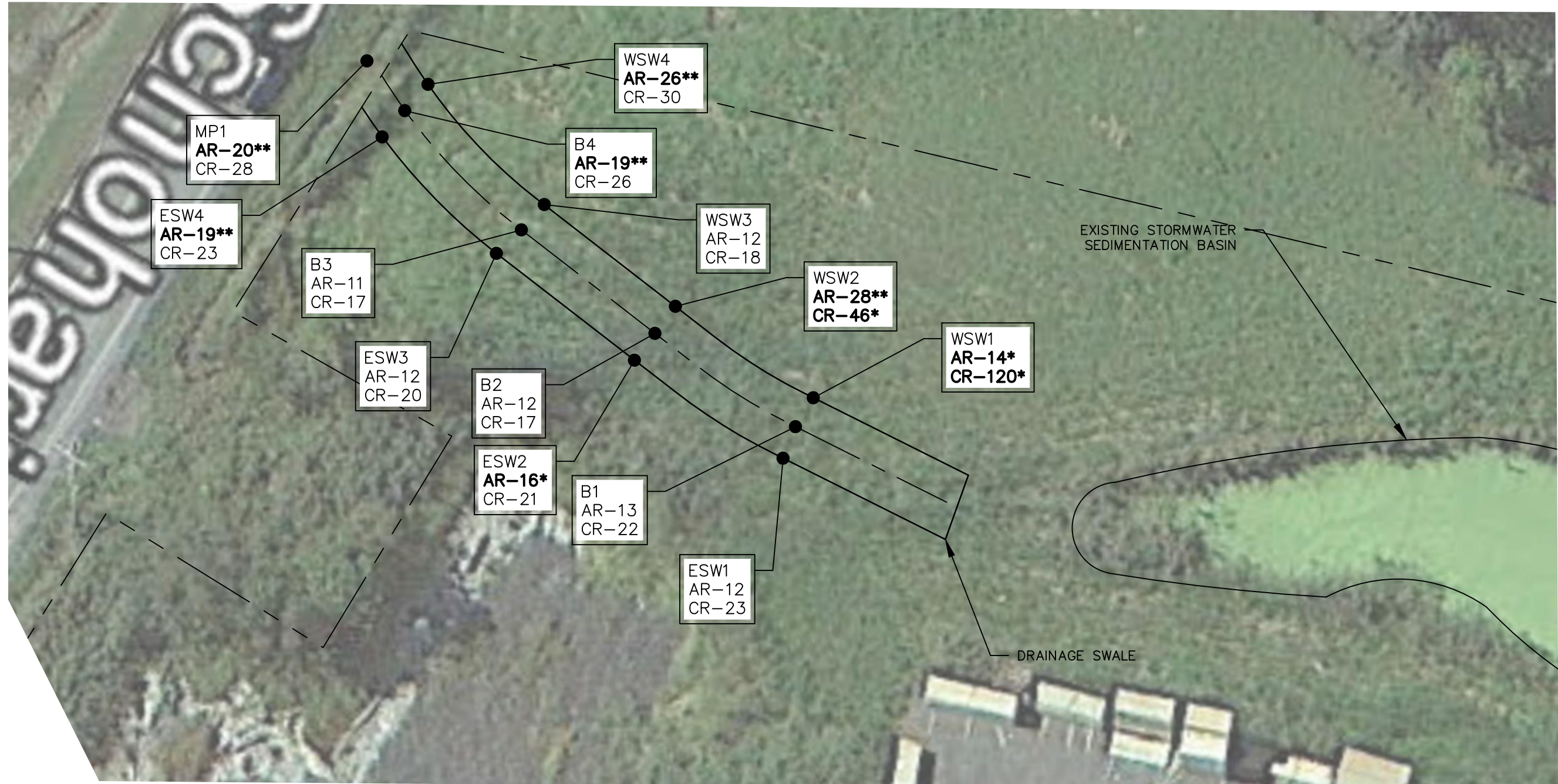
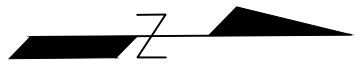
TMJ/bc

Email Only

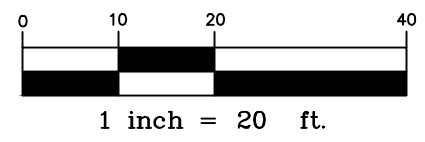
Attachments (Figure, Laboratory Report)

cc: Walter Wintsch, NYSDEC Central Office (Email Only)  
Scarlett McLaughlin, NYSDOH (Email Only)  
Brad Wenskoski, NYSDOH (Email Only)  
Justin Deming, NYSDOH (Email Only)  
David Reed, Northeast Treaters, Athens, NY (Email Only)  
Greg Christy, Northeast Treaters, Athens, NY (Email Only)  
Kevin Young, Young Sommer (Email Only)  
Beth Morss, Young Sommer (Email Only)

**ATTACHMENT 1**  
**FIGURE 1**



- SAMPLE ID  
AR-ARSENIC VALUE  
CR-CHROMIUM (TOTALS) VALUE
  - \* EXCEEDS UNRESTRICTED STANDARDS  
(AR - 13, CR - 30)
  - \*\* EXCEEDS INDUSTRIAL STANDARDS  
(AR - 16, CR - 6800)
- ALL VALUES IN PPM



**STERLING**  
Sterling Environmental Engineering, P.C.  
24 Wade Road • Latham, New York 12110

DRAINAGE SWALE  
SAMPLING PLAN AND RESULTS  
NORTHEAST TREATERS  
SCHOHARIE TURNPIKE

TOWN OF ATHENS GREENE CO., N.Y.

S:\Dr\2014-08 - Northeast Treaters\2014-08101 - SW S\STERLING.dwg 12/17/2015 9:59 AM

**ATTACHMENT 2**  
**ANALYTICAL LABORATORY REPORT**



## ANALYTICAL REPORT

Lab Number:	L1532153
Client:	Sterling Environmental Eng 24 Wade Road Latham, NY 12110
ATTN:	Vedran Cirkovic
Phone:	(518) 456-4900
Project Name:	NORTHEAST TREATERS
Project Number:	2014-08
Report Date:	12/16/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





**Project Name:** NORTHEAST TREATERS  
**Project Number:** 2014-08

**Lab Number:** L1532153  
**Report Date:** 12/16/15

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L1532153-01	WSW-1	SOIL	NORTHEAST TREATERS	12/07/15 14:05	12/07/15
L1532153-02	ESW-1	SOIL	NORTHEAST TREATERS	12/07/15 14:18	12/07/15
L1532153-03	B-1	SOIL	NORTHEAST TREATERS	12/07/15 14:21	12/07/15
L1532153-04	WSW-2	SOIL	NORTHEAST TREATERS	12/07/15 14:24	12/07/15
L1532153-05	ESW-2	SOIL	NORTHEAST TREATERS	12/07/15 14:27	12/07/15
L1532153-06	B-2	SOIL	NORTHEAST TREATERS	12/07/15 14:30	12/07/15
L1532153-07	WSW-3	SOIL	NORTHEAST TREATERS	12/07/15 14:33	12/07/15
L1532153-08	ESW-3	SOIL	NORTHEAST TREATERS	12/07/15 14:36	12/07/15
L1532153-09	B-3	SOIL	NORTHEAST TREATERS	12/07/15 14:39	12/07/15
L1532153-10	WSW-4	SOIL	NORTHEAST TREATERS	12/07/15 14:41	12/07/15
L1532153-11	ESW-4	SOIL	NORTHEAST TREATERS	12/07/15 14:44	12/07/15
L1532153-12	B-4	SOIL	NORTHEAST TREATERS	12/07/15 14:47	12/07/15
L1532153-13	MP-1	SOIL	NORTHEAST TREATERS	12/07/15 14:50	12/07/15

**Project Name:** NORTHEAST TREATERS  
**Project Number:** 2014-08

**Lab Number:** L1532153  
**Report Date:** 12/16/15

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---



**Project Name:** NORTHEAST TREATERS  
**Project Number:** 2014-08

**Lab Number:** L1532153  
**Report Date:** 12/16/15


**Case Narrative (continued)**

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Lisa Westerlind

Title: Technical Director/Representative

Date: 12/16/15

## METALS

**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-01

Date Collected: 12/07/15 14:05

Client ID: WSW-1

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
-----------	--------	-----------	-------	----	-----	-----------------	---------------	---------------	-------------	-------------------	---------

**Total Metals - Westborough Lab**

Arsenic, Total	14		mg/kg	0.54	0.11	1	12/09/15 17:00	12/10/15 15:01	EPA 3050B	1,6010C	PS
Chromium, Total	120		mg/kg	0.54	0.11	1	12/09/15 17:00	12/10/15 15:01	EPA 3050B	1,6010C	PS



**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-02

Date Collected: 12/07/15 14:18

Client ID: ESW-1

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	12		mg/kg	0.57	0.11	1	12/09/15 17:00	12/10/15 15:05	EPA 3050B	1,6010C	PS
Chromium, Total	23		mg/kg	0.57	0.11	1	12/09/15 17:00	12/10/15 15:05	EPA 3050B	1,6010C	PS



**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-03

Date Collected: 12/07/15 14:21

Client ID: B-1

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 69%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	13		mg/kg	0.56	0.11	1	12/09/15 17:00	12/10/15 15:09	EPA 3050B	1,6010C	PS
Chromium, Total	22		mg/kg	0.56	0.11	1	12/09/15 17:00	12/10/15 15:09	EPA 3050B	1,6010C	PS



**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-04

Date Collected: 12/07/15 14:24

Client ID: WSW-2

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 58%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	28		mg/kg	0.69	0.14	1	12/09/15 17:00	12/10/15 16:34	EPA 3050B	1,6010C	PS
Chromium, Total	46		mg/kg	0.69	0.14	1	12/09/15 17:00	12/10/15 16:34	EPA 3050B	1,6010C	PS



**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-05

Date Collected: 12/07/15 14:27

Client ID: ESW-2

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 70%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	16		mg/kg	0.55	0.11	1	12/09/15 17:00	12/10/15 16:38	EPA 3050B	1,6010C	PS
Chromium, Total	21		mg/kg	0.55	0.11	1	12/09/15 17:00	12/10/15 16:38	EPA 3050B	1,6010C	PS



**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-06

Date Collected: 12/07/15 14:30

Client ID: B-2

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 68%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	12		mg/kg	0.57	0.11	1	12/09/15 17:00	12/10/15 16:42	EPA 3050B	1,6010C	PS
Chromium, Total	17		mg/kg	0.57	0.11	1	12/09/15 17:00	12/10/15 16:42	EPA 3050B	1,6010C	PS





**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-07

Date Collected: 12/07/15 14:33

Client ID: WSW-3

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	12		mg/kg	0.63	0.12	1	12/09/15 17:59	12/10/15 16:46	EPA 3050B	1,6010C	PS
Chromium, Total	18		mg/kg	0.63	0.12	1	12/09/15 17:59	12/10/15 16:46	EPA 3050B	1,6010C	PS



Project Name: NORTHEAST TREATERS

Lab Number: L1532153

Project Number: 2014-08

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-08

Date Collected: 12/07/15 14:36

Client ID: ESW-3

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 55%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
-----------	--------	-----------	-------	----	-----	-----------------	---------------	---------------	-------------	-------------------	---------

## Total Metals - Westborough Lab

Arsenic, Total	12		mg/kg	0.68	0.14	1	12/09/15 17:59	12/10/15 16:50	EPA 3050B	1,6010C	PS
Chromium, Total	20		mg/kg	0.68	0.14	1	12/09/15 17:59	12/10/15 16:50	EPA 3050B	1,6010C	PS



**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-09

Date Collected: 12/07/15 14:39

Client ID: B-3

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
-----------	--------	-----------	-------	----	-----	-----------------	---------------	---------------	-------------	-------------------	---------

**Total Metals - Westborough Lab**

Arsenic, Total	11		mg/kg	0.59	0.12	1	12/09/15 17:59	12/10/15 16:54	EPA 3050B	1,6010C	PS
Chromium, Total	17		mg/kg	0.59	0.12	1	12/09/15 17:59	12/10/15 16:54	EPA 3050B	1,6010C	PS



**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-10

Date Collected: 12/07/15 14:41

Client ID: WSW-4

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 56%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
-----------	--------	-----------	-------	----	-----	-----------------	---------------	---------------	-------------	-------------------	---------

**Total Metals - Westborough Lab**

Arsenic, Total	26		mg/kg	0.68	0.14	1	12/09/15 17:59	12/10/15 18:24	EPA 3050B	1,6010C	PS
Chromium, Total	30		mg/kg	0.68	0.14	1	12/09/15 17:59	12/10/15 18:24	EPA 3050B	1,6010C	PS



**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-11

Date Collected: 12/07/15 14:44

Client ID: ESW-4

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 59%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
-----------	--------	-----------	-------	----	-----	-----------------	---------------	---------------	-------------	-------------------	---------

**Total Metals - Westborough Lab**

Arsenic, Total	19		mg/kg	0.65	0.13	1	12/09/15 17:59	12/10/15 18:28	EPA 3050B	1,6010C	PS
Chromium, Total	23		mg/kg	0.65	0.13	1	12/09/15 17:59	12/10/15 18:28	EPA 3050B	1,6010C	PS



**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-12

Date Collected: 12/07/15 14:47

Client ID: B-4

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Arsenic, Total	19		mg/kg	0.64	0.13	1	12/09/15 17:59	12/10/15 18:32	EPA 3050B	1,6010C	PS
Chromium, Total	26		mg/kg	0.64	0.13	1	12/09/15 17:59	12/10/15 18:32	EPA 3050B	1,6010C	PS



**Project Name:** NORTHEAST TREATERS**Lab Number:** L1532153**Project Number:** 2014-08**Report Date:** 12/16/15**SAMPLE RESULTS**

Lab ID: L1532153-13

Date Collected: 12/07/15 14:50

Client ID: MP-1

Date Received: 12/07/15

Sample Location: NORTHEAST TREATERS

Field Prep: Not Specified

Matrix: Soil

Percent Solids: 30%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
-----------	--------	-----------	-------	----	-----	-----------------	---------------	---------------	-------------	-------------------	---------

**Total Metals - Westborough Lab**

Arsenic, Total	20		mg/kg	1.3	0.26	1	12/09/15 17:59	12/10/15 18:36	EPA 3050B	1,6010C	PS
Chromium, Total	28		mg/kg	1.3	0.26	1	12/09/15 17:59	12/10/15 18:36	EPA 3050B	1,6010C	PS



Project Name: NORTHEAST TREATERS

Lab Number: L1532153

Project Number: 2014-08

Report Date: 12/16/15

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG848243-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	12/09/15 17:00	12/10/15 12:55	1,6010C	PS
Chromium, Total	ND		mg/kg	0.40	0.08	1	12/09/15 17:00	12/10/15 12:55	1,6010C	PS

### Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 07-13 Batch: WG848273-1										
Arsenic, Total	ND		mg/kg	0.40	0.08	1	12/09/15 17:59	12/10/15 14:01	1,6010C	PS
Chromium, Total	ND		mg/kg	0.40	0.08	1	12/09/15 17:59	12/10/15 14:01	1,6010C	PS

### Prep Information

Digestion Method: EPA 3050B



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** NORTHEAST TREATERS

**Project Number:** 2014-08

**Lab Number:** L1532153

**Report Date:** 12/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG848243-2 SRM Lot Number: D088-540								
Arsenic, Total	87		-		79-121	-		
Chromium, Total	81		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 07-13 Batch: WG848273-2 SRM Lot Number: D088-540								
Arsenic, Total	85		-		79-121	-		
Chromium, Total	110		-		80-120	-		

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** NORTHEAST TREATERS

**Project Number:** 2014-08

**Lab Number:** L1532153

**Report Date:** 12/16/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG848243-3 WG848243-4 QC Sample: L1532125-01 Client ID: MS Sample												
Arsenic, Total	4.0	10.5	14	95		14	96		75-125	0		20
Chromium, Total	10.	17.5	28	103		30	115		75-125	7		20
Total Metals - Westborough Lab Associated sample(s): 07-13 QC Batch ID: WG848273-4 QC Sample: L1532169-01 Client ID: MS Sample												
Arsenic, Total	27.	11.3	34	62	Q	-	-		75-125	-		20
Chromium, Total	13.	18.9	32	100		-	-		75-125	-		20

**Project Name:** NORTHEAST TREATERS  
**Project Number:** 2014-08

## Lab Duplicate Analysis

Batch Quality Control

**Lab Number:** L1532153  
**Report Date:** 12/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 07-13 QC Batch ID: WG848273-3 QC Sample: L1532169-01 Client ID: DUP Sample						
Arsenic, Total	27.	24	mg/kg	12		20
Chromium, Total	13.	13	mg/kg	0		20

# **INORGANICS & MISCELLANEOUS**

Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-01

Client ID: WSW-1

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:05

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.7		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.1	0.22	1	12/10/15 14:57	12/11/15 11:58	1,7196A	JT



Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-02

Client ID: ESW-1

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:18

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.9		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	0.57	J	mg/kg	1.2	0.24	1	12/10/15 14:57	12/11/15 11:59	1,7196A	JT



Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-03

Client ID: B-1

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:21

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	68.8		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.2	0.23	1	12/10/15 14:57	12/11/15 11:59	1,7196A	JT



Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-04

Client ID: WSW-2

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:24

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	58.1		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.4	0.28	1	12/10/15 14:57	12/11/15 12:00	1,7196A	JT





Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-05

Client ID: ESW-2

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:27

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	69.8		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.1	0.23	1	12/10/15 14:57	12/11/15 12:01	1,7196A	JT



Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-06

Client ID: B-2

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:30

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	67.6		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.2	0.24	1	12/10/15 14:57	12/11/15 12:01	1,7196A	JT



Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-07

Client ID: WSW-3

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:33

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	62.2		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	0.42	J	mg/kg	1.3	0.26	1	12/10/15 14:57	12/11/15 12:02	1,7196A	JT



Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-08

Client ID: ESW-3

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:36

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.4		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.4	0.29	1	12/10/15 14:57	12/11/15 12:21	1,7196A	JT



Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-09

Client ID: B-3

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:39

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.3		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.2	0.24	1	12/10/15 14:57	12/11/15 12:22	1,7196A	JT



Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-10

Client ID: WSW-4

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:41

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	55.5		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.4	0.29	1	12/10/15 14:57	12/11/15 12:23	1,7196A	JT



Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-11

Client ID: ESW-4

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:44

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	58.8		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.4	0.27	1	12/10/15 14:57	12/11/15 12:24	1,7196A	JT



Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-12

Client ID: B-4

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:47

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.7		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	ND		mg/kg	1.3	0.26	1	12/10/15 14:57	12/11/15 12:26	1,7196A	JT





Project Name: NORTHEAST TREATERS

Project Number: 2014-08

Lab Number: L1532153

Report Date: 12/16/15

## SAMPLE RESULTS

Lab ID: L1532153-13

Client ID: MP-1

Sample Location: NORTHEAST TREATERS

Matrix: Soil

Date Collected: 12/07/15 14:50

Date Received: 12/07/15

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	30.1		%	0.100	NA	1	-	12/08/15 13:51	30,2540G	RI
Chromium, Hexavalent	ND		mg/kg	2.6	0.53	1	12/10/15 14:57	12/11/15 12:27	1,7196A	JT



**Project Name:** NORTHEAST TREATERS  
**Project Number:** 2014-08

**Lab Number:** L1532153  
**Report Date:** 12/16/15

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG848612-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	12/10/15 14:57	12/11/15 11:55	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 08-13 Batch: WG848613-1										
Chromium, Hexavalent	ND		mg/kg	0.80	0.16	1	12/10/15 14:57	12/11/15 12:20	1,7196A	JT

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** NORTHEAST TREATERS

**Project Number:** 2014-08

**Lab Number:** L1532153

**Report Date:** 12/16/15

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG848612-2								
Chromium, Hexavalent	94		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 08-13 Batch: WG848613-2								
Chromium, Hexavalent	98		-		80-120	-		20

# **Matrix Spike Analysis** Batch Quality Control

**Project Name:** NORTHEAST TREATERS

**Project Number:** 2014-08

**Lab Number:** L1532153

**Report Date:** 12/16/15

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG848612-4 QC Sample: L1532153-01 Client ID: WSW-1												
Chromium, Hexavalent	ND	1240	1100	89		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 08-13 QC Batch ID: WG848613-4 QC Sample: L1532153-08 Client ID: ESW-3												
Chromium, Hexavalent	ND	1700	1600	94		-	-		75-125	-		20

**Project Name:** NORTHEAST TREATERS  
**Project Number:** 2014-08

## Lab Duplicate Analysis

Batch Quality Control

**Lab Number:** L1532153  
**Report Date:** 12/16/15

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG847799-1 QC Sample: L1532153-01 Client ID: WSW-1						
Solids, Total	72.7	71.1	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG848612-6 QC Sample: L1532153-01 Client ID: WSW-1						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 08-13 QC Batch ID: WG848613-6 QC Sample: L1532153-08 Client ID: ESW-3						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

**Project Name:** NORTHEAST TREATERS**Project Number:** 2014-08**Lab Number:** L1532153**Report Date:** 12/16/15**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1532153-01A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-01B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-02A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-02B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-03A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-03B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-04A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-04B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-05A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-05B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-06A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-06B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-07A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-07B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-08A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-08B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-09A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-09B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-10A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-10B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-11A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)

\*Values in parentheses indicate holding time in days



**Project Name:** NORTHEAST TREATERS**Project Number:** 2014-08**Lab Number:** L1532153**Report Date:** 12/16/15**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Analysis(*)</b>
L1532153-11B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-12A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-12B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-13A	Glass 60mL/2oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)
L1532153-13B	Glass 120ml/4oz unpreserved	A	N/A	2.6	Y	Absent	AS-TI(180),CR-TI(180),TS(7),HEXCR-7196(30)

\*Values in parentheses indicate holding time in days



**Project Name:** NORTHEAST TREATERS  
**Project Number:** 2014-08

**Lab Number:** L1532153  
**Report Date:** 12/16/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

**Report Format:** DU Report with 'J' Qualifiers





**Project Name:** NORTHEAST TREATERS  
**Project Number:** 2014-08

**Lab Number:** L1532153  
**Report Date:** 12/16/15

#### Data Qualifiers

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** NORTHEAST TREATERS  
**Project Number:** 2014-08

**Lab Number:** L1532153  
**Report Date:** 12/16/15

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 524.2:** 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene  
**EPA 624:** 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene  
**EPA 625:** Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.  
**EPA 1010A:** NPW: Ignitability  
**EPA 6010C:** NPW: Strontium; SCM: Strontium  
**EPA 8151A:** NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP  
**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.  
**EPA 8270D:** NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.  
**EPA 9010:** NPW: Amenable Cyanide Distillation, Total Cyanide Distillation  
**EPA 9038:** NPW: Sulfate  
**EPA 9050A:** NPW: Specific Conductance  
**EPA 9056:** NPW: Chloride, Nitrate, Sulfate  
**EPA 9065:** NPW: Phenols  
**EPA 9251:** NPW: Chloride  
**SM3500:** NPW: Ferrous Iron  
**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.  
**SM5310C:** DW: Dissolved Organic Carbon

### Mansfield Facility

**EPA 8270D:** NPW: Biphenyl; SCM: Biphenyl  
**EPA 2540D:** TSS  
**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:


### Drinking Water

**EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ti; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;  
**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO<sub>3</sub>-F:** Nitrate-N, Nitrite-N; **SM4500F-C,**  
**SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**  
**EPA 332:** Perchlorate.  
**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Ti, Zn;  
**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, V, Zn;  
**EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,**  
**SM426C, SM4500NH<sub>3</sub>-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO<sub>3</sub>-F,**  
**EPA 353.2:** Nitrate-N, **SM4500NH<sub>3</sub>-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**  
**SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**  
**EPA 624:** Volatile Halocarbons & Aromatics,  
**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,  
Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs  
**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.  
**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

 <b>NEW YORK CHAIN OF CUSTODY</b> Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page # <b>1 of 2</b>		Date Rec'd in Lab <b>12/8/15</b>		ALPHA Job # <b>L1532153</b>																																																																																					
<b>Client Information</b> Client: Sterling Environmental Engineering Address: 24 Wade Rd Latham, NY 12110 Phone: 518-456-4900 Fax: 518-456-3532 Email: vedran.cerkovic@sterlingenvironmental.com		<b>Project Information</b> Project Name: Northeast Treators Project Location: <i>Northeast Treators</i> Project # <i>2014-08</i> (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input type="checkbox"/> Same as Client Info PO #																																																																																							
		<b>Turn-Around Time</b> Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input checked="" type="checkbox"/> 2# of Days: <i>or ASAP</i>		<b>Required Equipment</b> <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other: NA																																																																																							
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: vedran.cerkovic@sterlingenvironmental.com  Please specify Metals or TAL.		<b>ANALYSIS</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		<b>Sample Specific Comments</b>																																																																																							
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">Total Metals (As,Cr)</th> <th rowspan="2">HEXCR</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr><td>32153-01</td><td>WSW-1</td><td>12/7/15</td><td>14:05</td><td>Soil</td><td>VC</td><td>X</td><td>X</td></tr> <tr><td>02</td><td>ESW-1</td><td></td><td>14:18</td><td></td><td></td><td></td><td></td></tr> <tr><td>03</td><td>B-1</td><td></td><td>14:21</td><td></td><td></td><td></td><td></td></tr> <tr><td>04</td><td>WSW-2</td><td></td><td>14:24</td><td></td><td></td><td></td><td></td></tr> <tr><td>05</td><td>ESW-2</td><td></td><td>14:27</td><td></td><td></td><td></td><td></td></tr> <tr><td>06</td><td>B-2</td><td></td><td>14:30</td><td></td><td></td><td></td><td></td></tr> <tr><td>07</td><td>WSW-3</td><td></td><td>14:33</td><td></td><td></td><td></td><td></td></tr> <tr><td>08</td><td>ESW-3</td><td></td><td>14:36</td><td></td><td></td><td></td><td></td></tr> <tr><td>09</td><td>B-3</td><td></td><td>14:39</td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>WSW-4</td><td></td><td>14:41</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID			Collection		Sample Matrix	Sampler's Initials	Total Metals (As,Cr)	HEXCR	Date	Time	32153-01	WSW-1	12/7/15	14:05	Soil	VC	X	X	02	ESW-1		14:18					03	B-1		14:21					04	WSW-2		14:24					05	ESW-2		14:27					06	B-2		14:30					07	WSW-3		14:33					08	ESW-3		14:36					09	B-3		14:39					10	WSW-4		14:41		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection				Sample Matrix	Sampler's Initials	Total Metals (As,Cr)	HEXCR																																																																																				
		Date	Time																																																																																										
32153-01	WSW-1	12/7/15	14:05	Soil	VC	X	X																																																																																						
02	ESW-1		14:18																																																																																										
03	B-1		14:21																																																																																										
04	WSW-2		14:24																																																																																										
05	ESW-2		14:27																																																																																										
06	B-2		14:30																																																																																										
07	WSW-3		14:33																																																																																										
08	ESW-3		14:36																																																																																										
09	B-3		14:39																																																																																										
10	WSW-4		14:41																																																																																										
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type A    A Preservative A    A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.																																																																																					
Relinquished By: <i>[Signature]</i>		Date/Time: <i>12/7/15 16:35</i>		Received By: <i>[Signature]</i>		Date/Time: <i>12-7-15 16:35</i>																																																																																							
Relinquished By: <i>[Signature]</i>		Date/Time: <i>12/15 2305</i>		Received By: <i>[Signature]</i>		Date/Time: <i>12-15 2305</i>																																																																																							
Relinquished By: <i>[Signature]</i>		Date/Time: <i>12/8/15 0155</i>		Received By: <i>[Signature]</i>		Date/Time: <i>12/8/15 0155</i>																																																																																							





## **APPENDIX F**

### **LIST OF REMEDIAL ACTIVITIES AND MONTHLY PROGRESS REPORTS**

## **Appendix F**

### **List of Remedial Activities Completed**

**Northeast Treaters of New York, LLC  
BCP #C420029**

- Site preparation
  - Building demolition
  - Isolation cover over former drip pad
  - Site demarcation fencing
  - Decontamination pad
  - Erosion Control measures
- Sawcut and break up of concrete pad
- Excavation and management of site concrete
- Excavation and management of site soil
- Maintenance of concrete and soil stockpiles
- Removal of impacted sediment from facility catch basins
- Clearing and grubbing of expansion area
- Construction of Site cover
  - Asphalt pavement
  - Imported soil and stone cover
  - New concrete building slab
- Modifications to existing downgradient basin exit swale
- Construction of southern berm

## Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period May 10, 2015 through June 10, 2015

### **Actions taken relative to the project during the reporting period:**

- Revised Remedial Investigation Report and Remedial Work Plan submitted to the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) between 5/13/2015 and 5/15/2015;
- Revised Remedial Investigation Report and Remedial Work Plan submitted to document repository on 6/1/2015;
- Public Comment Period for the Remedial Work Plan announced 6/4/2015 and open through 7/21/2015;
- Request for Proposals transmitted to Qualified Remedial Contractors;
- Comment Letter Re: Excavation Work Plan and Community Air Monitoring Plan issued by NYSDEC on 6/4/2015; and
- Predesign Sampling Work Plan submitted to NYSDEC and NYSDOH on 6/8/2015.

### **Anticipated activities for next reporting period:**

- Conduct Predesign Sampling field investigation week of 6/15/2015;
- Report Predesign Sample data and further delineate extent of preferred remedy (i.e. capping);
- Retain Qualified Remedial Contractor;
- Finalize Excavation Work Plan and Community Air Monitoring Plan, including obtaining DEC approval; and
- Revise BCA to expand Site boundaries to include portion of recently acquired adjoining property.

### **Approved activity modifications (changes of work scope and/or schedule)**

- No activity modifications were requested during this reporting period.

### **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- No sampling or tests were conducted during this reporting period.

### **Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

### **Estimated percentage of project completion:**

- ~30%



**Unresolved delays encountered or anticipated that may affect the approved schedule:**

- Further delineation of surface soils requested to north and east of currently defined Brownfield Cleanup Program Site.

**If applicable, efforts made to mitigate such delays:**

- Predesign Sampling Work Plan developed to delineate surface soils to north and east of the currently defined Brownfield Cleanup Program Site.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- Revised Remedial Investigation Report and Remedial Work Plan submitted to document repository on 6/1/ 2015; and
- Public Comment Period for the Remedial Work Plan announced 6/4/2015 and open through 7/21 2015.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- Address public comments, if any, concerning the Remedial Work Plan.

## Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period June 1, 2015 through June 30, 2015

### **Actions taken relative to the project during the reporting period:**

- Revised Remedial Investigation Report and Remedial Work Plan submitted to document repository on 6/1/2015;
- Public Comment Period for the Remedial Work Plan announced 6/4/2015 and open through 7/21/2015;
- Request for Service Quotations transmitted to Qualified Remedial Contractors;
- Comment Letter concerning the Excavation Work Plan and Community Air Monitoring Plan issued by the New York State Department of Environmental Conservation (NYSDEC) on 6/4/2015;
- Predesign Sampling Work Plan submitted to the NYSDEC and the New York State Department of Health (NYSDOH) on 6/8/2015;
- Revised Excavation Work Plan, Revised Community Air Monitoring Plan and response to comments submitted to the NYSDEC and the NYSDOH on 6/12/2015;
- Predesign Sampling approval letter issued by the NYSDEC on 6/12/2015;
- Predesign Sampling field investigation conducted on 6/16/2015;
- Approval for lot line adjustment obtained from Town of Athens on 6/25/2015;
- Survey of proposed Brownfield Cleanup Area expansion completed by 6/30/2015; and
- Service Quotations submitted by Qualified Remedial Contractors.

### **Anticipated activities for next reporting period:**

- Report Predesign Sample data to the NYSDEC;
- Retain Qualified Remedial Contractor;
- Revise BCA to expand Site boundaries;
- Submit notice to the NYSDEC concerning planned Site disturbance activities;
- Finalize Remedial Work Plan (incorporating NYSDEC comments); and
- Mobilize construction equipment, begin demolition of existing processing building and prepare Site for remedial activities.

### **Approved activity modifications (changes of work scope and/or schedule)**

- No activity modifications were requested during this reporting period.

### **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- Analytical Laboratory Reports associated with Predesign Sampling are provided as Attachment 1.
- Data Usability Summary Reports associated with Predesign Sampling are provided as Attachment 2.

**Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

**Estimated percentage of project completion:**

- ~35%

**Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

**If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- Revised Remedial Investigation Report and Remedial Work Plan submitted to document repository on 6/1/2015; and
- Public Comment Period for the Remedial Work Plan announced 6/4/2015 and open through 7/21/2015.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- Address public comments, if any, concerning the Remedial Work Plan.

# Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period July 1, 2015 through July 31, 2015

## **Actions taken relative to the project during the reporting period:**

- Notice of intent to initiate construction and remedial activities on the Brownfield Cleanup Program (BCP) Site submitted to New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) on 7/13/15;
- Memorandum regarding consolidation of concrete and soil under protective cover submitted to NYSDEC and NYSDOH on 7/13/15;
- Brownfield Cleanup Agreement (BCA) Amendment Application submitted to NYSDEC and NYSDOH on 7/14/15 to expand the boundaries of the BCP Site;
- Supplemental Predesign Sampling Plan submitted to NYSDEC and NYSDOH on 7/14/2015 to collect additional soil samples at the southeastern portion of the Site;
- Predesign Sampling approval letter and request to conduct stormwater sediment sampling at catch basin sample locations issued by the NYSDEC on 7/17/2015;
- Revised Remedial Investigation Report Comment Letter issued by NYSDEC on 7/17/2015;
- Public Comment Period for the Remedial Work Plan ended on 7/22/2015, and no public comments were received;
- Supplemental Predesign Sampling field investigation addressed in 7/14/2015 sampling plan letter conducted on 7/23/2015 to collect additional soil samples and stormwater sediment samples;
- Contained-In Determination Request for Site soils submitted to NYSDEC on 7/29/2015; and
- NYSDEC approved BCA Amendment Application on 7/31/2015.

## **Anticipated activities for next reporting period:**

- Report Predesign Sample and Supplemental Predesign Sampling data to NYSDEC;
- Submit Revised Remedial Investigation Report per 7/17/2015 NYSDEC comment letter;
- Obtain NYSDEC Decision Document;
- Finalize Remedial Work Plan (incorporating NYSDEC comments);
- Initiate remedial activities at the Northeast Treaters BCP Site;
- Conduct soil testing for disposal characterization; and
- Obtain Contained-In Determination for Site soil.

## **Approved activity modifications (changes of work scope and/or schedule)**

- No activity modifications were requested during this reporting period.

## **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- Analytical Laboratory Reports associated with Supplemental Predesign Sampling conducted on July 23, 2015 are provided as Attachment 1.

**Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

**Estimated percentage of project completion:**

- ~40%

**Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

**If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- Public Comment Period for the Remedial Work Plan ended on 7/22/2015, and no public comments were received.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- Issue Notice and Fact Sheet to Site Contact List before protective cover is installed at the BCP Site.

# Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period August 1, 2015 through August 31, 2015

## **Actions taken relative to the project during the reporting period:**

- Revised Remedial Investigation Report submitted to NYSDEC on 8/3/2015; received 8/26/15 NYSDEC acceptance letter for the Remedial Investigation Report;
- Catch Basin Sediment Sampling Letter (results) submitted to NYSDEC on 8/7/2015;
- Meeting held at NYSDEC on 8/13/2015 to discuss Stormwater Basin Sediment Sampling;
- Stormwater Basin Sampling Work Plan submitted to NYSDEC on 8/14/2015;
- Stormwater Basin Sediment Samples collected 8/17/2015;
- Ground-intrusive Activities initiated at the BCP Site on 8/17/2015;
- Community Air Monitoring initiated on 8/17/2015 in conjunction with the start of BCP Site ground-intrusive activities;
- Submitted revised Figure 2 – Extent of Remedy map to NYSDEC on 8/19/2015;
- Submitted “Request to Import Fill” form to NYSDEC on 8/27/2015;
- Submitted additional “Request to Import Fill” form to NYSDEC on 8/28/2015.

## **Anticipated activities for next reporting period:**

- Obtain NYSDEC comments on results of Stormwater Basin Sediment Sampling, which were submitted to NYSDEC by letter dated 9/4/2015;
- Submit Revised Remedial Work Plan addressing 9/3/2015 NYSDEC comment letter;
- Obtain NYSDEC Decision Document;
- Continue remedial activities at the Northeast Treaters BCP Site;
- Conduct soil testing for disposal characterization; and
- Obtain Contained-In Determination for Site soil.

## **Approved activity modifications (changes of work scope and/or schedule)**

- No activity modifications were requested during this reporting period.

## **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- Analytical Laboratory Reports appended to the August 7, 2015 Catch Basin Sediment sampling letter were provided to the NYSDEC with the previous monthly progress report.
- Analytical laboratory report for Stormwater Basin Sediment Samples collected 8/17/2015 is provided as Attachment 1 and was previously submitted to NYSDEC by letter dated 9/4/2015.

## **Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

## **Estimated percentage of project completion:**

- ~50%

**Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

**If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- No activities required or taken.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- Issue Notice and Fact Sheet to Site Contact List before protective cover is installed at the BCP Site.

S:\Sterling\Projects\2014 Projects\Northeast Treaters of New York - Athens NY - 2014-08\Monthly Progress Reports\NE Treaters Monthly Progress Report August 2015.docx

## Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period September 1, 2015 through September 30, 2015

### **Actions taken relative to the project during the reporting period:**

- New York State Department of Environmental Conservation (NYSDEC) issued comments on the Remedial Work Plan on 9/3/2015;
- Soil stockpile sample collected by MC Environmental Services, Inc. on 9/4/2015 to characterize soil for contained-in determination/disposal purposes;
- Stormwater Basin Sampling Results Letter submitted to NYSDEC on 9/4/2015;
- Analytical laboratory report concerning waste characterization sample issued by Phoenix Environmental Laboratories, Inc. on 9/16/2015;
- Revised Excavation Work Plan with Stockpile Location figure submitted to NYSDEC on 9/17/2015;
- Environmental Assessment Form submitted to the Town of Athens on 9/21/2015 in support of petition to rezone the undeveloped portion of the Brownfield Cleanup Program (BCP) Site from residential to light industrial use; and
- Community Air Monitoring performed at BCP Site during soil disturbance activities.

### **Anticipated activities for next reporting period:**

- Submit Revised Remedial Work Plan addressing 9/3/2015 NYSDEC comment letter;
- Submit Remedial Work Plan Addendum addressing expansion of Site covered by BCA and management of stormwater basin and drainage swale;
- Submit complete petition to the Town of Athens to rezone the undeveloped portion of the BCP Site for light industrial use;
- Obtain NYSDEC Decision Document;
- Continue remedial activities at the Northeast Treaters BCP Site; and
- Obtain Contained-In Determination for Site soil.

### **Approved activity modifications (changes of work scope and/or schedule)**

- No activity modifications were requested during this reporting period.

### **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- Analytical laboratory report dated 9/16/15 for the waste characterization sample collected on 9/4/2015 is provided as Attachment 1.

### **Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.



**Estimated percentage of project completion:**

- ~54%

**Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

**If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- No activities required or taken.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- Issue Notice and Fact Sheet to Site Contact List before protective cover is installed at the BCP Site.

## Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period October 1, 2015 through October 31, 2015

### **Actions taken relative to the project during the reporting period:**

- Revised Remedial Work Plan submitted to New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) on 10/2/2015 in response to NYSDEC's 9/3/2015 comment letter;
- Complete Petition to rezone undeveloped woodland area from Rural Residential to Light Industrial submitted to the Town of Athens on 10/5/2015;
- Site visit to review conditions of the Northeast Treaters' facility stormwater basin attended by NYSDEC, NYSDOH, Northeast Treaters, and Sterling Environmental Engineering, P.C. on 10/5/2015;
- Letter concerning proposed measures to address impacted sediment in the Northeast Treaters' stormwater basin and drainage swale submitted to NYSDEC and NYSDOH on 10/5/2015;
- Letter regarding Comments on Stormwater Basin Sample Results issued by NYSDEC on 10/15/2015;
- Contained-In Determination issued by NYSDEC on 10/19/2015 allowing impacted fill material at the Site to be managed as solid waste by the City of Albany Landfill;
- Remedial Work Plan Addendum submitted to NYSDEC and NYSDOH on 10/28/2015 to address impacts identified during predesign sampling and to address NYSDEC comments received in the 10/15/2015 Stormwater Basin Sample Results comment letter;
- Wipe sample collected from the interior surface of the decommissioned Northeast Treaters' treatment cylinder on 10/29/2015; and
- Community Air Monitoring performed at BCP Site during soil disturbance activities.

### **Anticipated activities for next reporting period:**

- Obtain NYSDEC Decision Document; and
- Continue remedial activities at the Northeast Treaters BCP Site including, but not limited to, the installation of the protective cover.

### **Approved activity modifications (changes of work scope and/or schedule)**

- Awaiting NYSDEC and NYSDOH comment on activity modifications described in the 10/28/2015 Remedial Work Plan Addendum.

### **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- Analytical laboratory report dated 11/5/15 for the wipe sample collected on 10/29/2015 is provided as Attachment 1.

**Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

**Estimated percentage of project completion:**

- ~58%

**Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

**If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- No activities required or taken.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- Issue Notice and Fact Sheet to Site Contact List before protective cover is installed at the BCP Site.

## Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period November 1, 2015 through November 30, 2015

### **Actions taken relative to the project during the reporting period:**

- Contingent approval of the Remedial Work Plan Addendum provided by the New York State Department of Environmental Conservation (NYSDEC) by letter dated 11/20/2015;
- Community Air Monitoring performed at BCP Site during soil disturbance activities.

### **Anticipated activities for next reporting period:**

- Obtain NYSDEC Decision Document; and
- Continue remedial activities at the Northeast Treaters BCP Site including, but not limited to, the installation of the protective cover and the excavation of the stormwater drainage swale.

### **Approved activity modifications (changes of work scope and/or schedule)**

- Activity modifications are provided in the revised Remedial Work Plan Addendum dated 12/7/2015.

### **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- No sampling or tests were conducted during this reporting period.

### **Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

### **Estimated percentage of project completion:**

- ~75%

### **Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

### **If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- No activities required or taken.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- Not applicable.

## Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period December 1, 2015 through December 31, 2015

### **Actions taken relative to the project during the reporting period:**

- Revised Remedial Work Plan Addendum submitted to the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) on 12/7/2015 in response to NYSDEC's 11/20/2015 Comment Letter;
- Excavation for basin exit swale located downgradient of the existing facility stormwater basin completed on 12/7/2015;
- Asphalt cover installed on developed 1.68-acre portion of the BCP Site between 12/7/2015 and 12/8/2015;
- Data associated with Predesign Sampling submitted to the NYSDEC's Environmental Information Management System (EIMS) on 12/14/15 and 12/18/15;
- Stormwater Pollution Prevention Plan was revised and a Notice of Intent to initiate ground disturbance activities on the undeveloped 2.22-acre portion of the BCP Site submitted on 12/17/2015;
- Basin exit swale sample results submitted to NYSDEC and NYSDOH on 12/21/2015;
- Decision Document issued by NYSDEC on 12/31/2015; and
- Community Air Monitoring performed at BCP Site during soil disturbance activities.

### **Anticipated activities for next reporting period:**

- Continue remedial activities at the Northeast Treaters BCP Site including, but not limited to, the installation of the protective cover over the undeveloped 2.22-acre portion of the BCP Site (including grading and berm). Basin exit swale is complete as of the date of this notice.

### **Approved activity modifications (changes of work scope and/or schedule)**

- Not Applicable.

### **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- Sample results associated with the basin exit swale excavation were submitted to the NYSDEC and NYSDOH on 12/21/2015.

### **Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- Waste generated during the demolition process removed from Site. Manifest available upon request.

**Estimated percentage of project completion:**

- ~90%

**Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

**If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- No activities required or taken.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- Not applicable.

# Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period January 1, 2016 through January 31, 2016

**Actions taken relative to the project during the reporting period:**

- Grubbing and grading conducted on undeveloped, formerly wooded portion of the Brownfield Cleanup Program (BCP) Site. Impacted concrete and soil consolidated and aesthetic berm constructed in accordance with Remedial Work Plan Addendum dated December 7, 2015.
- Community Air Monitoring performed at BCP Site during soil disturbance activities.

**Anticipated activities for next reporting period:**

- Complete remedial activities at the Northeast Treaters BCP Site.

**Approved activity modifications (changes of work scope and/or schedule)**

- Not Applicable.

**Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- No sampling or tests were conducted during this reporting period.

**Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

**Estimated percentage of project completion:**

- ~93%

**Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

**If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- No activities required or taken.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- Not applicable.



## Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period February 1, 2016 through February 29, 2016

### **Actions taken relative to the project during the reporting period:**

- Schedule of Activity for receipt of a Certificate of Completion submitted to the New York State Department of Environmental Conservation (NYSDEC) on 2/5/2016;
- Draft Site Management Plan and Settling Basin Closure Plan submitted to NYSDEC and the New York State Department of Health (NYSDOH) on 2/17/2016;
- "Request to Import Fill" form submitted to NYSDEC on 2/19/2016 to import subbase material for the Site's protective cover;
- Construction of new process building completed;
- Sampling of soil cover "imported" from the area north of the Brownfield Cleanup Program (BCP) Site was conducted by Sterling Environmental Engineering, P.C. (STERLING) on 2/23/2016;
- Installation of protective cover over formerly wooded portion of the BCP Site and construction of aesthetic/noise abatement berm were completed by BCI Construction, Inc. in accordance with Remedial Work Plan Addendum dated December 7, 201; and
- Weekly inspections conducted by STERLING in accordance with the Site Stormwater Pollution Prevention Plan.

### **Anticipated activities for next reporting period:**

- Complete remedial activities at the Northeast Treaters BCP Site.
- Submit draft Final Engineering Report to NYSDEC and NYSDOH

### **Approved activity modifications (changes of work scope and/or schedule)**

- Not Applicable.

### **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- Soil samples representative of the approximate 700 cubic yards of native soil located adjacent to and north of the BCP Site were collected in accordance with DER-10 Section 5.4(e) on 2/23/2016 for use on the BCP Site as a protective cover over the aesthetic/noise abatement berm. The subject soil was excavated for the construction of a stormwater settling basin north of the BCP Site to support facility expansion and redevelopment. Sample results indicate that this soil is acceptable cover material pursuant to DER-10, and these data are provided as Attachment 1.

### **Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

**Estimated percentage of project completion:**

- ~98%

**Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

**If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- No activities required or taken.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- No citizen participation activities anticipated for the next reporting period. A Fact Sheet will be published upon issuance of the Certificate of Completion.

## Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period March 1, 2016 through March 31, 2016

### **Actions taken relative to the project during the reporting period:**

- Draft FER submitted to New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) on 3/2/2016;
- “Request to Import Fill” form submitted to NYSDEC on 3/3/2016 to import soil cover material from the area adjacent to the north boundary of the Brownfield Cleanup Program (BCP) Site;
- Letters of approval regarding Northeast Treaters’ requests to import fill/soil issued by NYSDEC on 3/14/2016;
- Seeding and installation of erosion control mat associated with Site remediation and redevelopment activities completed by BCI Construction, Inc. between 3/28/2016 and 4/1/2016; and
- Weekly Site inspections conducted by STERLING in accordance with the Site Stormwater Pollution Prevention Plan.

### **Anticipated activities for next reporting period:**

- Receive and address NYSDEC and NYSDOH comments on FER and Site Management Plan (SMP).
- Submit Revised FER and SMP addressing NYSDEC and NYSDOH comments.

### **Approved activity modifications (changes of work scope and/or schedule)**

- Not Applicable.

### **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- No sampling or tests were conducted during this reporting period.

### **Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

### **Estimated percentage of project completion:**

- ~99%. Construction activities associated with Site remediation are considered complete.

### **Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

**If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- No activities required or taken.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- No citizen participation activities anticipated for the next reporting period. A Fact Sheet will be published upon issuance of the Certificate of Completion.

## Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treators of New York, LLC  
Athens, New York

Reporting Period April 1, 2016 through April 30, 2016

### **Actions taken relative to the project during the reporting period:**

- Monthly Stormwater Site inspections conducted by STERLING on 4/1/2016 in accordance with the Site Stormwater Pollution Prevention Plan;
- Comments on draft Site Management Plan (SMP) issued by New York State Department of Environmental Conservation (NYSDEC) on 4/12/2016; and
- Comments on draft Final Engineering Report (FER) issued by NYSDEC on 4/14/2016.

### **Anticipated activities for next reporting period:**

- Address NYSDEC and New York State Department of Health (NYSDOH) comments on draft FER and SMP;
- Complete As-Built Survey and As-Built Drawings; and
- Submit revised draft FER and SMP addressing NYSDEC and NYSDOH comments.

### **Approved activity modifications (changes of work scope and/or schedule)**

- Not Applicable.

### **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- No sampling or tests were conducted during this reporting period.

### **Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

### **Estimated percentage of project completion:**

- ~99%. Construction activities associated with Site remediation are considered complete.

### **Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

### **If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- No activities required or taken.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- No citizen participation activities anticipated for the next reporting period. A Fact Sheet will be published upon issuance of the Certificate of Completion.

## Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treaters of New York, LLC  
Athens, New York

Reporting Period May 1, 2016 through May 31, 2016

**Actions taken relative to the project during the reporting period:**

- Monthly Stormwater Site inspection conducted by STERLING on 5/2/2016 in accordance with the Site Stormwater Pollution Prevention Plan.

**Anticipated activities for next reporting period:**

- Complete placement of asphalt cover over the northern and eastern portion of the Site;
- Complete As-Built Survey and As-Built Drawings; and
- Finalize and submit revised FER and SMP addressing NYSDEC and NYSDOH comments.

**Approved activity modifications (changes of work scope and/or schedule)**

- Not Applicable.

**Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- No sampling or tests were conducted during this reporting period.

**Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

**Estimated percentage of project completion:**

- ~99%. Construction activities associated with Site remediation are considered complete.

**Unresolved delays encountered or anticipated that may affect the approved schedule:**

- No unresolved delays were encountered during this reporting period.

**If applicable, efforts made to mitigate such delays:**

- Not applicable.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- No activities required or taken.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- No citizen participation activities anticipated for the next reporting period. A Fact Sheet will be published upon issuance of the Certificate of Completion.



## Brownfield Cleanup Project Monthly Progress Report

BCP Site #C420029  
Northeast Treators of New York, LLC  
Athens, New York

Reporting Period June 1, 2016 through June 30, 2016

### **Actions taken relative to the project during the reporting period:**

- Monthly Stormwater Site inspection conducted by STERLING on 6/1/2016 in accordance with the Site Stormwater Pollution Prevention Plan;
- Placement of asphalt cover over the northern and eastern portion of the Site completed on 6/8/2016; and
- As-Built Survey map prepared on 6/9/2016.

### **Anticipated activities for next reporting period:**

- Submit Brownfield Cleanup Area (BCA) Amendment Application to modify the boundaries of the Site;
- Revise As-Built Survey and As-Built Drawings to incorporate revisions to the BCA boundary;
- Submit Environmental Easement (EE) package; and
- Finalize and submit revised FER and SMP addressing NYSDEC and NYSDOH comments.

### **Approved activity modifications (changes of work scope and/or schedule)**

- Not Applicable.

### **Results of sampling and tests and all other data received or generated by or on behalf of Participant in connection with this Site, whether under this Agreement or otherwise, obtained in the previous reporting period (including quality assurance/quality control information):**

- No sampling or tests were conducted during this reporting period.

### **Type and quantity of any waste removed from Site. Attach copy of manifest(s).**

- No waste was removed from the Site during this reporting period.

### **Estimated percentage of project completion:**

- ~99%. Construction activities associated with Site remediation are considered complete.

### **Unresolved delays encountered or anticipated that may affect the approved schedule:**

- The As-Built Survey indicates the southern aesthetic berm extended approximately 27 feet beyond the eastern boundary of the defined BCA Site.

### **If applicable, efforts made to mitigate such delays:**

- A BCA Amendment Application will be prepared to modify the defined BCA Site to include the entire footprint of the southern aesthetic berm.

**Activities undertaken in support of the Citizen Participation Plan during the reporting period:**

- No activities required or taken.

**Anticipated activities undertaken in support of the Citizen Participation Plan for the next reporting period:**

- No citizen participation activities anticipated for the next reporting period. A Fact Sheet will be published upon issuance of the Certificate of Completion.

**APPENDIX G**

**CAMP AIR MONITORING DATA  
(PROVIDED ON CD)**

**APPENDIX H**  
**PHOTOGRAPH LOG**



Photograph 1: The concrete drip pad was isolated using polyethylene sheeting and plywood. The drip pad was later sealed with an acrylic-based liquid polymer following excavation activities.



Photograph 2: Excavated impacted soil was stockpiled in designated areas on a layer of polyethylene sheeting.





Photograph 3: Designated impacted soil stockpile areas were located along eastern portion of the developed Site. Erosion and sediment control measures were established along the perimeter of the construction area.



Photograph 4: Potable water was used for dust control, as needed.



Photograph 5: Community Air Monitoring and Worker Breathing Zone Monitoring were conducted with three (3) DustTrak II Aerosol Monitors with audible and visual alarms. Breathing zone monitor shown.



Photograph 6: Worker exposure to impacted soil within excavation areas was limited by polyethylene sheeting and clean stone.





Photograph 7: Formwork for structural components was assembled within excavation areas.



Photograph 8: Polyethylene lined excavations were maintained throughout the building erection sequence.





Photograph 9: New industrial wood treatment cylinders were installed.



Photograph 10: Designated impacted soil stockpile area located in the northern, undeveloped portion of the Site, facing north.



Photograph 11: Designated concrete debris stockpile area located in the southern undeveloped portion of the Site, facing east.



Photograph 12: Construction road fabric was used as a demarcation layer beyond the footprint of the new process building and within the footprint of the Site.





Photograph 13: The undeveloped woodland area east of the new process building was cleared and grubbed to expand product storage capacity (photograph facing north).



Photograph 14: Excavated impacted soil was consolidated in the vicinity of the concrete debris stockpile area (photograph facing east). Stockpiles were covered with polyethylene sheeting at the end of daily activities.



Photograph 15: Consolidated impacted soil and stockpiled concrete debris were used to construct an aesthetic berm on the southernmost portion of the storage yard expansion area.



Photograph 16: Construction of the new process building was conducted concurrently with remedial activities. Asphalt paving is an integral part of the protective cover.





Photograph 17: Impacted soil and concrete comprising the aesthetic berm was encapsulated within an impermeable geomembrane. Recycled concrete aggregate obtained from a NYSDEC registered recycling facility and clean stone was placed over the storage yard expansion area.



Photograph 18: A minimum of one (1) foot of clean imported soil was placed over the aesthetic berm and above the impermeable geomembrane.



Photograph 19: Erosion control matting was placed over the one (1) foot soil cover of the noise abatement berm.



Photograph 20: A minimum of one (1) foot of clean imported riprap was placed between the original Northeast Treaters facility and the newly constructed expansion area. Photograph facing south.





Photograph 21: A new facility stormwater settling basin was constructed adjacent to and north of the Brownfield Cleanup Area Site as a component of the facility redevelopment project. Photograph facing north.



Photograph 22: The offsite drainage exit swale located south of the existing facility stormwater settling basin was modified during remedial activities.

## **APPENDIX I**

### **REQUEST TO IMPORT FILL FORMS**





**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



**Request to Import/Reuse Fill or Soil**

\*This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.\*

**SECTION 1 – SITE BACKGROUND**

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

**SECTION 2 – MATERIAL OTHER THAN SOIL**

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

**SECTION 3 - SAMPLING**

Provide a brief description of the number and type of samples collected in the space below:

N/A

*Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.*

*If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.*

### SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

N/A

*Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.*

*If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.*

### SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Carver Sand & Gravel, LLC.

Location where fill was obtained:

Port of Coeymans

Identification of any state or local approvals as a fill source:

DEC Registration #01W12

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

  
Signature

2/18/16  
Date

Mark Bacon  
Print Name

BCI Construction, Inc  
Firm



**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



**Request to Import/Reuse Fill or Soil**

\*This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.\*

**SECTION 1 – SITE BACKGROUND**

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

**SECTION 2 – MATERIAL OTHER THAN SOIL**

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

**SECTION 3 - SAMPLING**

Provide a brief description of the number and type of samples collected in the space below:

N/A

*Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.*

*If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.*

### SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

N/A

*Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.*

*If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.*

### SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

A. Colarusso & Sons, Inc. supplier of crushed stone subbase to BCI Construction

Location where fill was obtained:

Colarusso Quarry, 91 Newman Rd. Hudson, NY

Identification of any state or local approvals as a fill source:

NYS DEC Mined Land Reclamation Permit ID: 4-1040-00034/00025

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

The information provided on this form is accurate and complete.

  
Signature

2/18/16  
Date

Mark Bacon  
Print Name

BCI CONSTRUCTION, INC.  
Firm





**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



**Request to Import/Reuse Fill or Soil**

\*This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.\*

**SECTION 1 – SITE BACKGROUND**

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

**SECTION 2 – MATERIAL OTHER THAN SOIL**

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

**SECTION 3 - SAMPLING**

Provide a brief description of the number and type of samples collected in the space below:

N/A

*Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.*

*If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.*

### SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

N/A

*Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.*

*If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.*

### SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

A. Colarusso & Son Inc. supplier of crushed stone subbase to BCI Construction

Location where fill was obtained:

Colarusso Quarry 91 Newman Rd. Hudson NY

Identification of any state or local approvals as a fill source:

NYS DEC Mined Land Reclamation Permit ID: 4-1040-00034/00025

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:



The information provided on this form is accurate and complete.



Signature

8/28/15

Date

Mark Bacon

Print Name

BCI Construction, Inc.

Firm



**NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



**Request to Import/Reuse Fill or Soil**

\*This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.\*

**SECTION 1 – SITE BACKGROUND**

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

**SECTION 2 – MATERIAL OTHER THAN SOIL**

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

**SECTION 3 - SAMPLING**

Provide a brief description of the number and type of samples collected in the space below:

NA

*Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.*

*If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.*

### SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

NA

*Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.*

*If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.*

### SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Halsted Excavating Corp., [NYSDEC Mine Permittee]

Location where fill was obtained:

Coxsackie, New York [Mine ID: 40744]

Identification of any state or local approvals as a fill source:

-

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Permitted NYSDEC Mine (Shale Mine)

Provide a list of supporting documentation included with this request:

NA

The information provided on this form is accurate and complete.

Michael G. Craft  
Signature

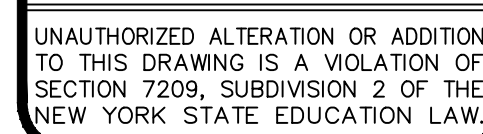
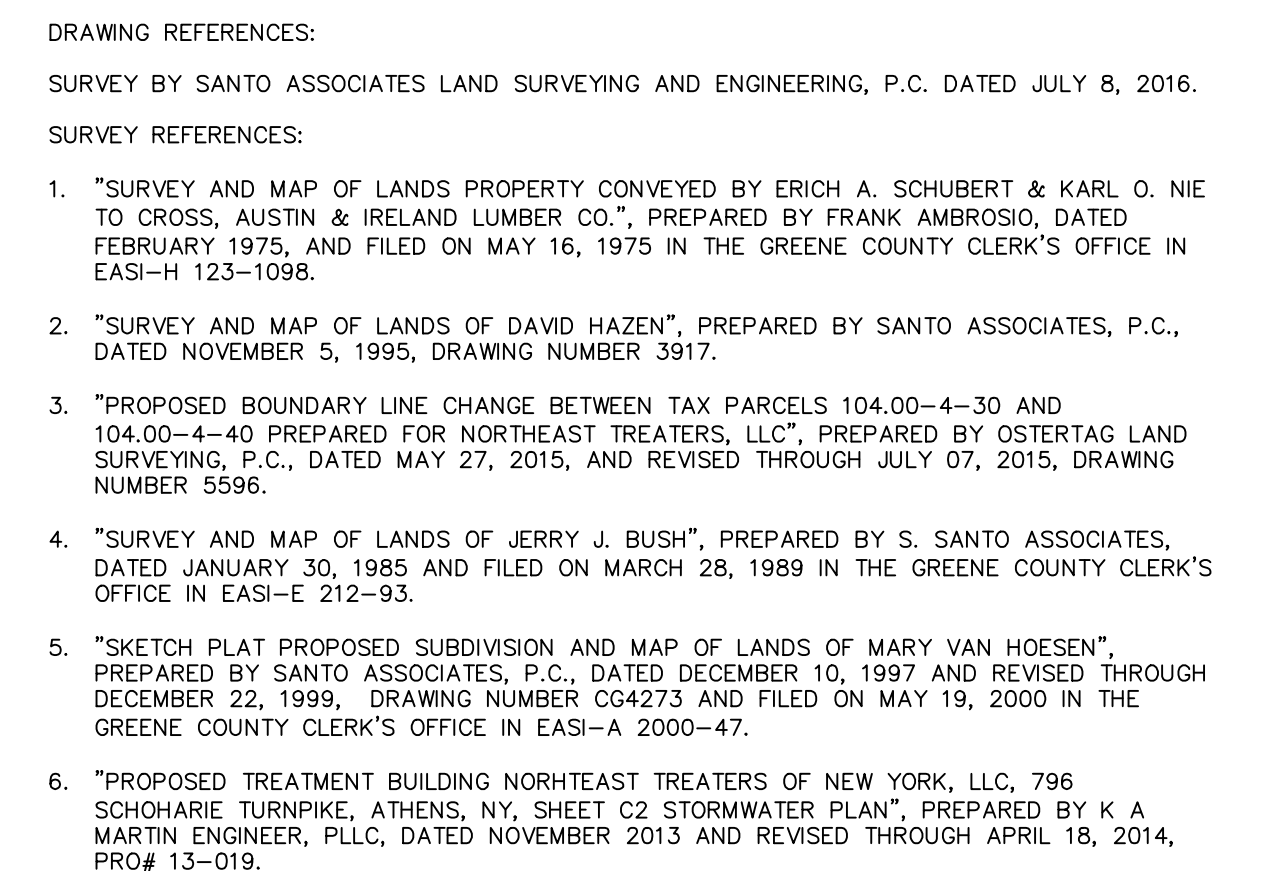
8/24/15  
Date

Michael G. Craft  
Print Name

MC Environmental Services, Inc.  
Firm

## **APPENDIX J**

### **AS-BUILT DRAWINGS**



PROJECT	
PROJ. ENGR.:	MPM
PROJ. NO.:	2014-08
PREPARED BY:	TAS
DRAFTED BY:	TAS
CHECKED BY:	
APPROVED BY:	
DATUM:	NA
CONTOUR INTERVAL =	NA FEET

REMEDIAL CONSTRUCTION  
AS BUILT DRAWING  
***NORTHEAST TREATERS***  
SCHOHARIE TURNPIKE  
TOWN OF ATHENS GREEN CO., NEW YORK

---

**STERLING**  
Sterling Environmental Engineering, P.C.  
24 Wade Road • Latham, New York 12110

---

DATE: 07/13/2016 | SCALE: 1" = 60' | DWG. NO. 2014-08104 | SHEET 1 OF 1