

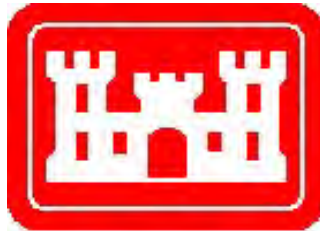
**SECOND FIVE YEAR REVIEW REPORT  
FOR NORTHEASTERN INDUSTRIAL PARK  
FUDS PROJECT C02NY000203  
ALBANY COUNTY, NEW YORK**



**U.S. Army Corps of Engineers  
New England District  
Concord, Massachusetts**

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INDUSTRIAL PARK  
FUDS PROJECT C02NY000203  
ALBANY COUNTY, NEW YORK**



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**for  
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New England District  
Concord, Massachusetts**

**Approved by:**

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## LIST OF ABBREVIATIONS & ACRONYMS

ACEMC	Albany County Environmental Management Council
AOC	Areas of Concern
ARAR	Applicable or Relevant and Appropriate Requirement
Bluestone	Bluestone Environmental Group, Inc.
CENAE	US Army Corps of Engineers, New England District
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Contaminant of Concern
1,2-DCA	1,2-Dichloroethane
1,2-DCE	Dichloroethene (total, consisting of cis- and trans-1,2 DCE)
DoD	Department of Defense
FUDS	Formerly Used Defense Site
FYR	Five-Year Review
H2H	H2H Associates, LLC.
HHRA	Human Health Risk Assessment
IC/EC	Institutional and Engineering Controls
LLDPE	Linear Low-Density Polyethylene
LUC	Land Use Control
MCL	Maximum Contaminant Level
MNA	Monitored Natural Attenuation
NCP	National Contingency Plan
NEIP	Northeastern Industrial Park
NPL	National Priorities List
NYCRR	New York Codes, Rules and Regulations
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	Operations and Maintenance
OU	Operating Unit
oz/yd <sup>2</sup>	ounce per square yard
PAH	Polycyclic Aromatic Hydrocarbon
PVC	Polyvinyl Chloride
RAO	Remedial Action Objectives
RG	Remedial Goal
RI	Remedial Investigation
SADVA	Schenectady Army Depot – Voorheesville Area
SMP	Site Management Plan
TCE	Trichloroethene
TOGS	Technical and Operational Guidance Series
U.S.	United States
UFP-QAPP	Uniform Federal Policy – Quality Assurance Project Plan
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey

## **LIST OF ABBREVIATIONS & ACRONYMS (CONTINUED)**

UU/UE	Unlimited Use and Unrestricted Exposure
VC	Vinyl Chloride
VOC	Volatile Organic Compound

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## I. INTRODUCTION

The purpose of a Five-year Review (FYR) is to evaluate the implementation and performance of a remedy in order to determine if the remedy is and will continue to be protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in FYR reports such as this one. In addition, FYR reports identify issues found during the review, if any, and document recommendations to address them.

The United States Army Corps of Engineers (USACE) prepared this FYR pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121, consistent with the National Contingency Plan (NCP) (40 Code of Federal Regulations (CFR) Section 300.430(f)(4)(ii)), and considering Department of Defense (DoD), Formerly Used Defense Sites (FUDS), and United States Environmental Protection Agency (USEPA) policy.

This is the second FYR for the Northeastern Industrial Park (NEIP) FUDS Property C02NY0002, Project Number 03 (Southern Landfill). The triggering action for this statutory review is the signature of the first FYR on 06 June 2018 (USACE, 2018). The FYR report has been prepared due to the fact that hazardous substances, pollutants, or contaminants remain at the site above levels that allow for unlimited use and unrestricted exposure (UU/UE).

NEIP Project Number 03 consists of nine Areas of Concern (AOCs), with six completed no action Decision Documents (USACE, 2021). According to the Decision Document for AOC 1 (U.S. Army Southern Landfill) and 7 (Triangular Disposal Area) (USACE, 2011), the response action addressed AOC 1 only. No response action was necessary at AOC 7; however, the groundwater potable use restriction in the environmental easement granted by the property owner extended to AOC 7, due to its proximity to AOC 1. As noted in the Decision Document, AOC 7 will only be discussed within the FYR with respect to changes in land use, since no unacceptable risk exists at AOC 7. Since 2011, there have been no changes in land use that would conflict with the original decision of no further action for AOC 7. The other Project 03 AOCs that are not addressed in this FYR include: AOC 2 (Former Bivouac Area, Post Commanders Landfill); AOC 3 (Former Burn Pit and Disposal Area); AOC 4 (Construction and Debris Landfill); AOC 5 (Former Voorheesville Depot); AOC 6 (Former Wastewater Treatment Plant); AOC 8 (Black Creek); and, AOC 9 (Building 60 Area).

The NEIP FYR was led by Mr. Jeff Dvorak with the USACE New England District. Participants from USACE, New York State Department of Environmental Conservation (NYSDEC), and Bluestone Environmental Group, Inc., included engineers and scientists with specialties in hydrogeology, chemistry, risk assessment, and regulatory compliance. The review began on 13 September 2022.

### **Site Background**

The NEIP (hereafter referred to as “the Site”), now privately owned and operated by the Galesi Group, was formerly operated as the Schenectady Army Depot – Voorheesville Area (SADVA), located in Guiderland, New York (**Appendix A, Figures A-1 and A-2**). AOC 1 is a former United States (U.S.) Army landfill located in the southeastern portion of the NEIP. The DoD used the property as a warehouse and storage complex from 1941 to 1969. The primary purpose of the installation was receipt, storage, maintenance, and distribution of supply items.

The Site is currently zoned industrial, while most adjacent properties are zoned agricultural (USACE, 2011). There have been no changes to land use within the past five years. The reasonably anticipated future land use remains the same; however, the site is being considered as a candidate location for a new solar panel project. Guiderland High School is located just north of NEIP (**Appendix A, Figure A-1**) and contains multiple outdoor athletic facilities such as tennis courts and baseball fields. Potable water within the area is largely supplied through the municipal government; however, some homes within the vicinity of NEIP are served by private drinking wells (Parsons, 2010).

AOC 1 reportedly contains construction and demolition debris, industrial and domestic wastes, and wastes from a former burn pit area located elsewhere at SADVA. The landfill boundaries were previously determined by past investigations conducted from the early 1990s through 2007, by Malcolm Pirnie (1997) and Parsons (1998, 2007, 2010, and 2011) under contract to the USACE. Impacts by volatile organic compounds (VOCs), polycyclic aromatic hydrocarbon (PAHs) and/or metals in surface soil, subsurface soil and groundwater have been documented, predominantly in the southern section.

### **FIVE-YEAR REVIEW SUMMARY FORM**

<b>SITE IDENTIFICATION</b>		
<b>Site Name:</b> Northeastern Industrial Park		
<b>FUDS Property Number:</b> C02NY0002		
<b>Region:</b> 2	<b>State:</b> NY	<b>City/County:</b> Guilderland/Albany
<b>SITE STATUS</b>		
<b>NPL Status:</b> Non-NPL		
<b>Multiple OUs?</b> No	<b>Has the site achieved construction completion?</b> Yes	
<b>REVIEW STATUS</b>		
<b>Lead agency:</b> Other Federal Agency <b>If “Other Federal Agency” was selected above, enter Agency name:</b> USACE		
<b>Author name (Federal or State Project Manager):</b> Mr. Jeff Dvorak		
<b>Author affiliation:</b> USACE New England District		
<b>Review period:</b> 13 September 2022 to 06 June 2023		
<b>Date of site inspection:</b> 25 October 2022		
<b>Type of review:</b> Statutory		
<b>Review number:</b> 2		
<b>Triggering action date:</b> 06 June 2018		
<b>Due date (five years after triggering action date):</b> 06 June 2023		

## II. RESPONSE ACTION SUMMARY

### **Basis for Taking Action**

As stated in the Decision Document (USACE, 2011), the need for the response action at AOC 1 was driven by the risks to human health posed by contaminants in groundwater. The response action at AOC 1 protects current site workers/users and the local public from human health risks posed by contaminants in groundwater by applying the USEPA's *CERCLA Municipal Landfill Presumptive Remedy to Military Landfills* (USEPA, 1996) and applying Monitored Natural Attenuation (MNA) to the groundwater plume. For soils, the landfill has not been completely characterized; however, the presumptive remedy eliminates the soil exposure pathway (USACE, 2011). Groundwater was evaluated as a drinking water source even though NEIP is supplied with municipal water, since there was no operational or legal impediment to the water being used for drinking, prior to implementation of the environmental easement. The contaminants of concern (COCs) identified for groundwater at AOC 1 are the following VOCs: trichloroethene (TCE), 1,2-dichloroethene (1,2-DCE; total, consisting of cis- and trans-1,2 DCE), 1,2-dichloroethane (1,2-DCA), and vinyl chloride (VC). According to the Decision Document (USACE, 2011), "Metals (arsenic, vanadium, selenium and antimony) also pose an unacceptable risk in groundwater. The presence of these metals will be addressed by the environmental easement prohibiting potable use of groundwater at AOC 1. Metals are not included as COCs for groundwater because the concentrations are not expected to be treated by MNA and therefore will not be monitored over time, as will be the case with VOCs." There were no COCs identified for soil at AOC 1.

No buildings currently exist at AOC 1; however, a vapor intrusion screening was completed to evaluate the potential for COCs in groundwater to intrude into buildings and to assess the potential for a vapor intrusion health risk should a building be constructed in the area in the future. The screening suggested that vapor intrusion could pose a risk if new buildings were to be constructed within the lateral limits of the VOC groundwater plume emanating from the southern portion of the AOC 1 landfill (H2H Associates, LLC, 2014a). This potential risk is addressed by the environmental easement, which prohibits the use of groundwater as drinking water or for industrial purposes, prohibits the construction of buildings over the plume and capped and covered areas, and requires the posting of "No Trespassing" signs.

As explained in the Decision Document (USACE, 2011), AOC 7 posed no unacceptable health risk with respect to soil, groundwater, surface water and sediment exposures; therefore, no COCs were identified for soil or groundwater and no remedial action was deemed necessary. In addition, the vegetative cover over AOC 7 was intact, and all soil sample concentrations of AOC 7 were below the applicable Title 6 New York Codes, Rules and Regulations (NYCRR) Part 375 industrial restricted land use soil cleanup objectives [USACE, 2011; H2H Associates, LLC (H2H), 2017]. However, a groundwater potable use restriction in the environmental easement granted by the property owner extends to AOC 7, due to its proximity to AOC 1. The only requirement noted in the Decision Document for AOC 7 indicates that land use changes should be reviewed during each FYR.

### **Response Actions**

There were no cleanup actions completed at AOC 1, prior to the signing of the Decision Document in 2011. The following Remedial Action Objectives (RAOs) were established for AOC 1 in the Decision Document:

- Eliminate or minimize the human health risks posed by TCE, VC, 1,2-DCA, and total-1,2-DCE in groundwater within the landfill by satisfying the New York State (NYS) Class GA (fresh groundwater) standards for groundwater as drinking water;
- Eliminate the soil exposure pathway;
- Mitigate the potential for future releases of contaminants in the landfill to groundwater; and,
- Mitigate the potential for movement and off-site migration of TCE, VC, 1,2-DCA, and total-1,2-DCE from the groundwater plume.

Groundwater and soil remedial goals (RGs) for AOC 1 are provided in the following table. Although there were no COCs identified for soil at AOC 1, the Restricted Use Cleanup Objectives established in 6 NYCRR §375-6.8, Table 375-6.8(b) were applied as RGs for the soil.

### Chemical-Specific Remedial Goals (RGs) for AOC 1

Groundwater		
Analyte	Value (µg/L)	ARAR
1,2-Dichloroethane (1,2-DCA)	0.6*	6 NYCRR §703.5(f), Table 1
1,2-Dichloroethene (total) (1,2-DCE)	5.0*	6 NYCRR §703.5(f), Table 1
Trichloroethene (TCE)	5.0	Federal MCL - 40 CFR §141.61
Vinyl Chloride (VC)	2.0	Federal MCL - 40 CFR §141.61
Soil		
Analyte	Value (µg/kg)	ARAR
Benzo(a)pyrene (PAH)	1,100	6 NYCRR §375-6.8, Table 375-6.8(b)
Total PAHs	1,000,000	6 NYCRR §375-6.8, Table 375-6.8(b)
Arsenic	16,000	6 NYCRR §375-6.8, Table 375-6.8(b)

#### NOTES:

ARAR – Applicable or Relevant and Appropriate Requirement, developed in the Feasibility Study as required under CERCLA. Section 121(d) of CERCLA requires that on-site remedial actions attain or waive Federal environmental ARARs, or more stringent State environmental ARARs, upon completion of the remedial action.

\* The NYSDEC Class GA Standards [from 6 NYCRR 703.5(f), Table 1] was stricter than the Federal MCL (40 CFR 141.61) for these COCs, so the NYSDEC Class GA Standards were established as the RGs in the Decision Document for these two COCs. NYSDEC classifies all fresh groundwater as a source of potable water, identified as Class GA waters. The Federal MCLs were equivalent to the NYSDEC Class GA Standards for TCE and VC.

The selected remedy for AOC 1 was Alternative 3 – Landfill Cover and Cap, Groundwater MNA, and Land Use Controls (LUCs) (USACE, 2011). The key components of the remedy included:

- An impermeable landfill cap over the approximately 2.5-acre area overlying the groundwater plume, satisfying the requirements of 40 CFR §264.310. The landfill cap was intended to mitigate the potential for continued release of contaminants to groundwater and to mitigate the potential for offsite migration of the VOC groundwater plume within the landfill.
- A soil cover over the approximately 8-acre landfill that was not affecting groundwater conditions. The soil cover improved the existing soil cover at the landfill, by minimizing human and animal contact with the soil.
- Groundwater MNA to address the health risks related to groundwater exposure. The groundwater remedy included annual groundwater sampling for VOCs and natural attenuation parameters, with annual reporting. The groundwater monitoring was planned to continue until the VOC COCs met the NYSDEC Class GA standards.
- LUCs to address the health risks posed by soil and groundwater exposure. The LUCs included an environmental easement, which prohibited the use of groundwater for drinking purposes and prohibited the construction of buildings over the plume and capped and covered areas, and required the posting of “No Trespassing” signs.

### Status of Implementation

Remedial construction of the selected remedy was completed in September 2013. The landfill cap in the southern portion (2.8 acres) contains the following components (from the top to the bottom).



A topsoil layer of at least 6 inches to support vegetation to prevent erosion.

- A 2-feet (ft) thick protective layer of soil graded, at a minimum of 4%, to promote drainage in accordance with Title 6 NYCRR Part 360-2 requirements.
- A subsurface geocomposite system consisting of a single-sided textured nonwoven 6-ounce per square yard (oz/yd<sup>2</sup>) geotextile to capture water infiltration and drainage.
- A low-permeability flexible 40-mil-thick textured linear low-density polyethylene (LLDPE) geosynthetic membrane to accommodate differential settling.
- A 10-oz/yd<sup>2</sup> nonwoven geotextile blanket cushion layer.
- A 6-inch minimum thickness soil subbase layer free of rocks greater than ½-inch in diameter to provide a smooth foundation for the composite cap system.

The soil cover in the northern portion (8 acres) contains the following components:

- A topsoil layer at least 6 inches thick and seeded with vegetation for erosion control.
- A 1-ft-thick soil protective layer.
- A 12-ft-wide gravel access road to allow limited vehicle access to this area and to the southern area landfill cap. The road was constructed in the location of a former access road and consists of an 8-inch layer of crushed gravel, sized 2 inches or less, which was placed over a non-woven geotextile, which was placed over an 8-inch compacted protective soil layer. This profile gives the access road a final elevation higher than the surrounding soil cover.

The existing monitoring well network was upgraded to include three new shallow monitoring wells installed along the perimeter of the landfill cap (H2H, 2014b):

- Well MW-13-01, located near former well AMW-4 at the southern edge of the landfill cap.
- Well MW-13-02, located near former well AMW-3 at the western edge of the landfill cap.
- Well MW-13-03, located near former wells AMW-1 and AMW-2 at the northeastern edge of the landfill cap.

The locations of the groundwater monitoring wells are displayed on **Figure A-3**, in **Appendix A**.

There was no remedial response action deemed necessary at AOC 7. However, a groundwater potable use restriction in the easement granted by the property owner for AOC 1 extends to AOC 7, due to its proximity to AOC 1. The environmental easement, provided in **Appendix B**, prohibits the use of groundwater underlying AOC 1 and 7 “without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or the Albany County Department of Health to render it safe for use as drinking water or for industrial purposes...” The perimeter of AOC 1 is enclosed by a 6-ft-high chain link fence and is accessed by the crushed gravel road.

The Site Management Plan (SMP), finalized in August 2014 (H2H, 2014a) and revised in December 2018 (Bluestone, 2018b), summarized the Institutional Controls/Engineering Controls (IC/ECs) and specified the details for annual monitoring, operations, and maintenance. A summary of the implemented ICs is provided on the following page. A site chronology is provided in **Appendix C**.

### **Systems Operations/Operation & Maintenance**

Operation and maintenance at NEIP is described in the SMP. The grass cover/topsoil layer for AOC 1 is inspected on an annual basis for the following:

- Erosion;
- Sinkholes;
- Bare spots;
- Dead species; and
- Undesirable species.

The grass cover at AOC 1 is mowed once per year, in the late fall. Trimming around existing features, such as fences, equipment and drainage ditches, and areas that cannot be reached with a mower is completed with smaller equipment that will not damage site features.

#### Summary of Implemented ICs

Media, engineered controls, and areas that do not support UU/UE based on current conditions	ICs Needed	ICs Called for in the Decision Documents	Impacted Parcel(s)	IC Objective	Title of IC Instrument Implemented and Date
Groundwater and Soil	Yes	Yes	26.062-acre Controlled Property, as described in Schedule A of the Environmental Easement (Appendix B)	Prohibits the use of groundwater as drinking water or for industrial purposes and the construction of buildings over the plume and capped and covered areas; requires posting of "No Trespassing" signs	Environmental Easement, December 2015

The cover soil and cap system at AOC 1 are inspected annually. The inspection covers, but is not limited to, the following:

- Surface cracks and irregularities in the cover system;
- Presence and condition of vegetative growth;
- Presence of burrowing animals;
- Evidence of significant settlement, bulging or sinkholes;
- Signs of erosion damage;
- Signs of unstable conditions; and
- Signs of leachate or waste breakthrough;

The stormwater management system at AOC 1 is inspected annually as outlined in the SMP. The following is inspected:

- Overgrown vegetation;
- Standing water;
- Sediments and debris;
- Erosion/washouts;
- Culvert (where present); and
- Damage to riprap (where applicable).

The condition and integrity of the existing environmental monitoring network of groundwater wells at the site are inspected annually. Historically, all systems have been in good condition and operating properly. However, during a gauging event in May 2018, well GW-03 was found to not be functioning properly. The monitoring well was installed with a total depth of 25 ft with a screened interval of 20 ft to 25 ft. The depth to bottom was found to be 14.23 ft in May 2018. It was concluded that the well was damaged and should either be re-developed or abandoned

and replaced. Well GW-03 was properly abandoned and replaced with well GW-03R in July 2019. Installation details for GW-3R were provided in the Decommissioning Report (Bluestone, 2019b). During groundwater sampling in November 2022, well MW-13-02 was found to have a collapse in the polyvinyl chloride (PVC) casing at the junction of the riser and screen pipe. A recommendation was made to repair or replace well MW-13-02 in the *Groundwater Monitoring and Annual Certification Report Number 9* (Bluestone, 2023).

For the first five years post-construction, groundwater monitoring was conducted once every five quarters (to evaluate seasonal variation) and the results were documented in annual reports. Groundwater monitoring was conducted in Winter 2013, Spring 2014, Summer 2015, Fall 2016, Winter 2017, and Spring 2018. During each event, groundwater samples were collected from four landfill cap area monitoring wells (GW-12, MW-13-01, MW-13-02, and MW-13-3) and five soil cover area monitoring wells (ACE-3, ACE-4, ACE-5, GW-03, and GW-13). Groundwater samples were analyzed for the following analytes and MNA parameters, in accordance with the SMP (Bluestone, 2018b) and Uniform Federal Policy – Quality Assurance Project Plan (Bluestone, 2022b):

- VOCs (full suite)
- Total Organic Carbon
- Dissolved Gases - Methane, Ethane, Ethene
- Nitrate/Nitrite
- Sulfate
- Total Sulfide
- Chloride
- Total Alkalinity
- Total Manganese
- Iron Speciation (Total, Ferrous, and Ferric) – Method 6010C for total iron, ferrous iron by SM3500-Fe D, ferric iron by subtraction of ferrous iron from total iron (unfiltered sample).

Based on the results of the first FYR, the frequency for groundwater monitoring was reduced to once every five years.

### III. PROGRESS SINCE THE LAST REVIEW

This section includes the protectiveness determinations and statements from the last five-year review as well as the recommendations from the last five-year review and the current status of those recommendations.

#### Protectiveness Determinations/Statements from the 2018 FYR

Area	Protectiveness Determination	Protectiveness Statement
AOC 1 and 7	Protective	The remedy at AOC 1 and 7 is protective of human health and the environment. The elements of the remedy include a Landfill Cap/Cover system, Land Use Controls (LUCs), and Monitored Natural Attenuation (MNA) for groundwater. The LUCs include an Environmental Easement, which prohibits the use of groundwater for drinking purposes and construction of buildings over the plume and capped and covered areas; fencing; and posting of “No Trespassing” signs. The LUC elements of the remedy ensure that there is no exposure to site contaminants of concern.

There were no issues or recommendations in the last FYR.

There were two other findings in the last FYR (summarized in the table below).

**Status of Other Findings from the 2018 FYR**

<b>Area</b>	<b>Finding</b>	<b>Current Status</b>	<b>Current Implementation Status Description</b>	<b>Completion Date (if applicable)</b>
AOC 1	It is recommended that the frequency for groundwater monitoring be reduced from annual sampling to once every five years, preceding the FYR, to confirm that the remedy remains protective.	Completed	Groundwater monitoring is currently being conducted once every five years.	11/28/2022
AOC 1	It is recommended that future sampling and reporting be limited to site COCs and other parameters necessary to evaluate remedy performance.	Considered But Not Implemented	The groundwater samples in 2022 were analyzed for full suite VOCs (Method 8260c), rather than just the site COCs (a short list of VOCS). MNA parameters were also included on the analyte list.	N/A

## IV. FIVE-YEAR REVIEW PROCESS

### **Community Notification, Involvement & Site Interviews**

A public notice was published in the Albany Times on 27 January 2023 (provided in **Appendix D**), notifying potentially interested parties of the FYR. Community members with comments were urged to contact the USACE Project Manager. To date, no public comments have been received. A public notice will be sent to the same newspaper announcing that the second FYR report for the site has been completed. The results of the review and the report will be made available on the USACE website:

<http://www.nan.usace.army.mil/Missions/Environmental/Environmental-Remediation/Formerly-Used-Defense-Sites/Former-Schenectady-Army-Depot-Voorheesville-Area/>

During the FYR process, interviews were conducted to document any perceived problems or successes with the remedy that has been implemented to date. Stakeholders interviewed included a representative from the State (NYSDEC) and the Site Owner's representative (Galesi). The result of these interviews is that none of the stakeholders interviewed were aware of any recurring problems associated with the implementation of ICs/ECs or the O&M of the remedy, or any unusual situations or problems that have occurred during the review period for this FYR at the Site. However, several of the stakeholders interviewed mentioned the fact that the Site is being considered as a candidate location for a new solar panel project. One stakeholder also indicated that they heard

discussion regarding the possible creation of a picnic area for the NEIP employees. Summaries of the interviews are provided in **Appendix E**.

### **Data Review**

Groundwater sampling results from 2018 (Bluestone, 2019a) and 2022 (Bluestone, 2023) were reviewed as part of this FYR. The groundwater analytical results for COCs (**Appendix F**) were compared with historical data, as well as to RGs. There have been no detections of any COCs above laboratory limits of detection in samples from the current monitoring well network since 2014. Additionally, laboratory limits of detection were below the RGs established for the site COCs. In general, the groundwater contours suggest that groundwater flows north/northwest towards Black Creek (**Appendix A, Figure A-1**). However, with no COCs detected over the past five years, there was no observed groundwater contamination available to migrate away from the landfill. Historical data for the site COCs are illustrated in **Appendix A, Figure A-4**. Evaluation of this groundwater data suggests that RAOs pertaining to groundwater (i.e., eliminate human health risk and mitigate potential for movement) have been attained for AOC 1.

### **Site Inspection**

The site inspection for the FYR was conducted simultaneously with the annual inspection on 25 October 2022, by Bluestone, in accordance with the revised SMP (Bluestone, 2018b). In attendance were Mr. Chris Gallo (USACE New York District, Mr. Jeff Dvorak (CENAE), and Mr. Joe Maule (Bluestone). The purpose of the inspection was to assess the protectiveness of the remedy.

The site inspection evaluated the following:

- Whether the stormwater management system was functioning properly;
- If vegetative growth was present and if it was excessive;
- If any surface cracks, settlement, seepage, or erosion were noticed;
- Information regarding the stability of the slopes;
- Any signs of trespassing or vandalism along the site perimeter; and,
- Any changes in land use.

The site inspection also assessed whether the land use restrictions within the environmental easement area were being enforced, including prohibition on the use of groundwater for drinking water purposes, prohibition on building construction over the plume and capped/covered areas, and posting of “No Trespassing” signs. There were no newly installed wells or recently constructed buildings within the easement area and “No Trespassing” signs were intact. The prohibition on the use of groundwater for drinking water purposes and on building construction over the plume and capped/covered areas was also confirmed during the site interviews with representatives from NYSDEC and the site owner. Overall, the environmental easement is meeting the RAOs related to soil and groundwater exposure.

Site inspection forms and photographs from the 2022 inspection are provided in **Appendix G**. The integrity and condition of the final cover/cap system was good, with only a few minor deficiencies. There were no surface cracks, erosion, slope stability issues or seepage in either the soil cover portion, or the smaller cap portion.

Observations during the 2022 site inspection include:

- Healthy vegetation on both landfill cap (Photo IDs: LC3 through LC12) and soil cover area (Photo IDs: SC1 through SC6).
- Animal burrows along eastern edge of landfill cap (Photo ID: LC1).
- No signs of rill erosion.
- Wooden perimeter fence post (second most western) damaged (Photo ID: LC2).
- Southern site perimeter fence near MW-13-01 is still sagging, overgrown, and in need of repair (Photo ID: LC10).

- Eastern cap perimeter fence sagging away from property (Photo ID: LC13).
- Monitoring wells are in good condition and locks are properly secured (Photo IDs: ACE-3, ACE-4, GW-03R, GW-11R, GW-12, and MW-13-01).
- Protective casing cap of GW-12 does not fully close, but is locked and secured (Photo ID: GW-12)
- Stormwater culverts in good condition (Photo IDs: SW1 through SW5).
- No direct changes in land use were noted for the Site or adjacent areas; however, the site interviews revealed that the site is being considered as a candidate location for a new solar panel project.

Overall, the site inspection concluded that the protectiveness of the remedy is not compromised and is performing as intended. The landfill and soil cover systems eliminates the soil exposure pathway and the stormwater management system mitigates the potential overland migration of Site media.

Unauthorized access to the Site is limited by the following engineering controls:

- i) Vehicle access is restricted by a locked gate,
- ii) Offsite pedestrian access is restricted by the fencing surrounding the NEIP property (along the railroad tracks and Albany County Road 201); and
- iii) Onsite pedestrian access is restricted by the security gate to the NEIP Property.

During the 2018 FYR, it was noted that the metal chain-link perimeter fence appeared to have been cut and bent back, creating a 3-ft x 3-ft hole in the bottom of the fence, approximately 40 feet north of ACE-5. During the annual inspections since 2018, two more holes of similar size were observed in close proximity to ACE-5. However, it was observed that these gaps in the chain-linked fence allowed surface water to flow freely through these points, and prevents fallen leaves, branches, and other vegetation from piling up at the fence and hence blocking surface water flow. It is believed that the fence installers needed to make these holes to maintain proper stormwater management at the site. Additionally, the holes are located in dense wetland vegetation, and trespassers are not of concern. However, as of 2022, the eastern perimeter chain-link fence is now sagging away from the property and is in need of repair (LC13).

The major components of the stormwater management system were also inspected in 2022, including the two site stormwater channels, which are lined with grass and riprap. The stormwater management system was inspected following all procedures outlined in the SMP. All components of the stormwater management system were inspected for evidence of overgrown vegetation, standing water, sediments and debris, erosion/washouts, culvert condition and performance (where present), and damage to riprap where applicable. No significant deficiencies were identified. Stormwater was actively flowing through swales undisturbed during the inspection.

## V. TECHNICAL ASSESSMENT

**QUESTION A:** Is the remedy functioning as intended by the decision documents?

### Question A Summary:

Yes, the remedy is functioning as intended by the Decision Document (USACE, 2011). Groundwater monitoring, site maintenance, and site inspections are the only operations and maintenance (O&M) activities required. The RGs for the groundwater COCs are specified groundwater concentrations (based on Federal MCLs and NYSDEC Class GA Standards). No COCs have been detected in groundwater since 2014 and laboratory limits of detection have remained protective of RGs (**Appendix F**). Based on these results, there is currently no evidence of COC migration into the groundwater beneath the landfill cap.

ICs/ECs were implemented and include the soil cover/cap and an environmental easement. These controls are meeting the RAOs by successfully mitigating the risks associated with site soil and groundwater. The soil cover eliminates the soil exposure pathway and the cap prevents further migration of COCs into groundwater. Both the soil cover and cap were noted as functioning as intended during site inspections and visits. Interviews with the site

owner, NYSDEC, and USACE confirmed that there have been no new well permits granted or wells installed at the site.

**QUESTION B:** Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives (RAOs) used at the time of the remedy selection still valid?

**Question B Summary:**

Yes, the exposure assumptions, toxicity data, cleanup levels, and RAOs are still valid for AOC 1. There have been no changes in the Federal MCLs or NYSDEC Class GA Standards for the AOC 1 groundwater COCs. There have also been no changes to the standardized risk assessment methodology that affect the protectiveness of the remedy. The selection of COCs has not been impacted by changes regarding chemical toxicity that have occurred since the HHRA was performed for AOC 1.

There have been no detections of any COCs above laboratory limits of detection in samples from the current monitoring well network since 2014. Thus, the RGs have already been met by the site COCs. The absence of COCs suggests that VOC contamination has already been naturally attenuated.

The site inspection and interview confirmed there have been no changes in land use on or near the site that would cause a change in exposure pathways for AOCs 1 or 7.

**QUESTION C:** Has any **other** information come to light that could call into question the protectiveness of the remedy?

**Question C Summary:**

Based on the site inspections, there have been no known impacts from natural disasters or climate change concerns at the site. No other information has come to light that could call into question the protectiveness of the remedy.

## VI. ISSUES/RECOMMENDATIONS

Issues/Recommendations
<b>OU(s) without Issues/Recommendations Identified in the Five-Year Review:</b>
Northeastern Industrial Park AOC 1 and 7

## OTHER FINDINGS

The following recommendation may improve performance of the remedy, but does not affect current and/or future protectiveness.

- Based on the results of this FYR and allowances provided in the Decision Document and Site Management Plan (summarized below), USACE and NYSDEC will meet to determine whether groundwater monitoring should be continued at AOC 1.
  - The Decision Document (USACE, 2011) indicates that groundwater monitoring is to be continued “until volatile COCs meet the NYSDEC Class GA standards, which are trichloroethene (5 micrograms per liter (µg/l)), cis-1,2 dichloroethene (5 µg/l) and VC (2 µg/l)”.
  - The SMP (Bluestone, 2018b) stated: “Each of the site wells are proposed to be sampled quinquennially for the second five year period to confirm the post-remediation baseline data set taken during the first five years after remedial construction began. The frequency of sampling will be evaluated again in the second Five-Year Review Report. The analytical parameters will be changed if deemed appropriate by the USACE or NYSDEC. Based on analytical results, select wells may be chosen to be sampled at a more or less frequent interval.”

- There have been no detections of any of the volatile COCs above laboratory limits of detection in samples from the current monitoring well network since 2014. Additionally, laboratory limits of detection were below the RGs established for the site COCs. Based on the first FYR, the monitoring frequency was reduced from annual to once every five years to confirm that the remedy remains protective.

Further discussion is planned between USACE and NYSDEC after the FYR is completed. Any changes to the monitoring frequency that result from this discussion will be documented in a revision to the SMP.

## VII. PROTECTIVENESS STATEMENT

Protectiveness Statement(s)		
<i>Operable Unit:</i> AOC 1 and 7	<i>Protectiveness Determination:</i> Protective	<i>Addendum Due Date (if applicable):</i> Not Applicable
<p><i>Protectiveness Statement:</i></p> <p>The remedy at AOC 1 and 7 is protective of human health and the environment.</p> <p>The elements of the remedy include a Landfill Cap/Cover system, Land Use Controls (LUCs), and Monitored Natural Attenuation (MNA) for groundwater. The LUCs include an environmental easement, which prohibits the use of groundwater as drinking water or for industrial purposes and construction of buildings over the plume and capped and covered areas, and requires posting of “No Trespassing” signs. The landfill cap mitigated the human health risks posed by TCE, VC, 1,2-DCA, and total-1,2-DCE in groundwater [as demonstrated by groundwater monitoring and the satisfaction of the NYSDEC Class GA (fresh groundwater) standards for groundwater as drinking water]; the potential for future releases of contaminants in the landfill to groundwater; and, the potential for movement and off-site migration of the site COCs. The soil exposure pathway has also been eliminated by the landfill cap and soil cover and enforcement of the environmental easement.</p>		

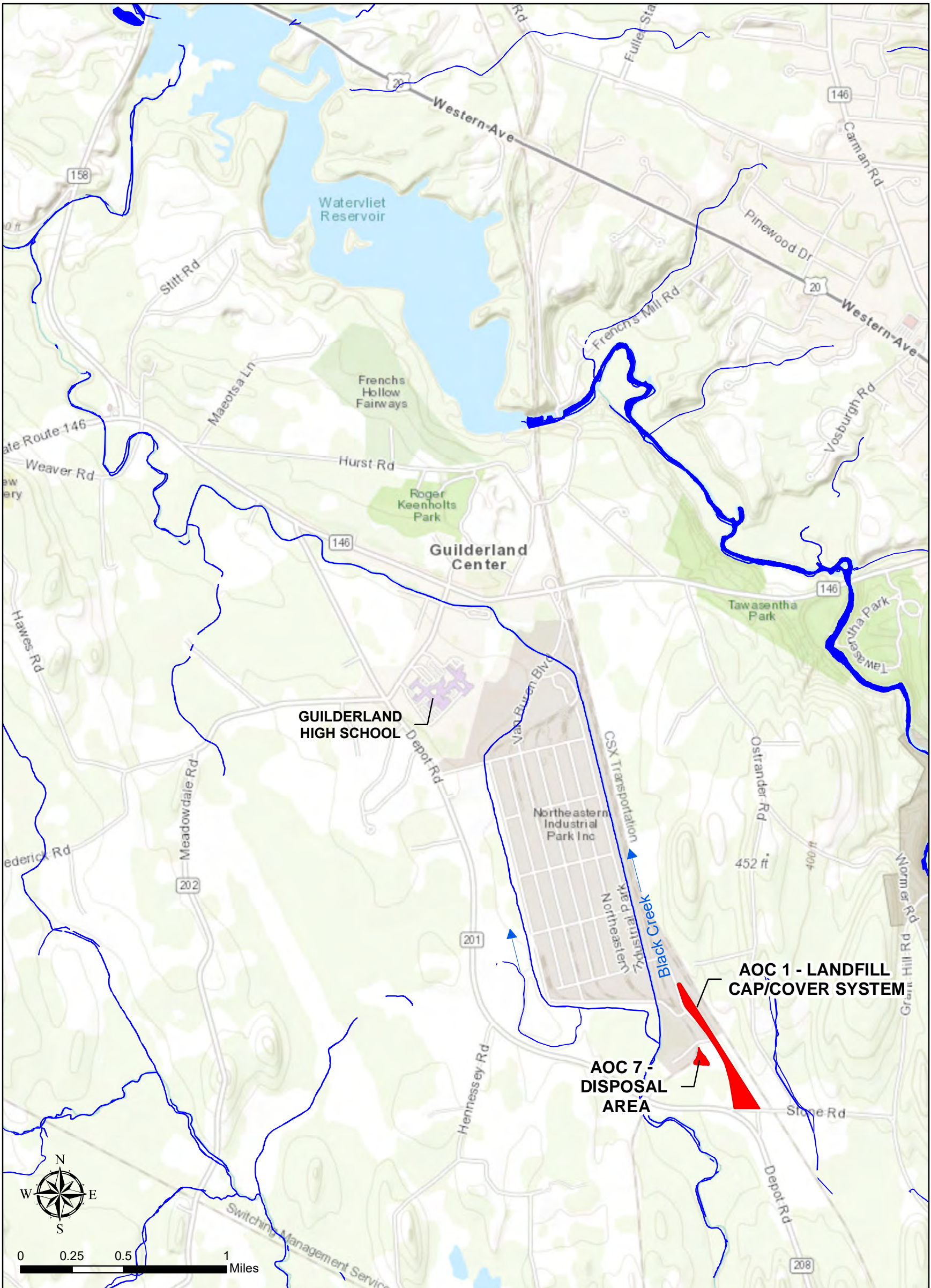
## VIII. NEXT REVIEW

The next FYR report for the NEIP FUDS is required five years from the completion date of this review.



## **APPENDIX A – SITE FIGURES**

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**LEGEND**

- AREA OF CONCERN
- STREAM/RIVER

1. RIVERINE FROM NATIONAL WETLAND INVENTORY BY US FISH AND WILDLIFE (2019)
2. SITE FEATURE BOUNDARIES FROM SITE MANAGMENT PLAN, NEIP AOC 1 AND 7, H2H ASSOCIATES (2014)

**FIGURE A-1**  
**SITE LOCATION**  
**NORTHEASTERN INDUSTRIAL PARK**  
**AOCs 1 AND 7, GUILDERLAND, NEW YORK**



**US Army Corps  
of Engineers®**



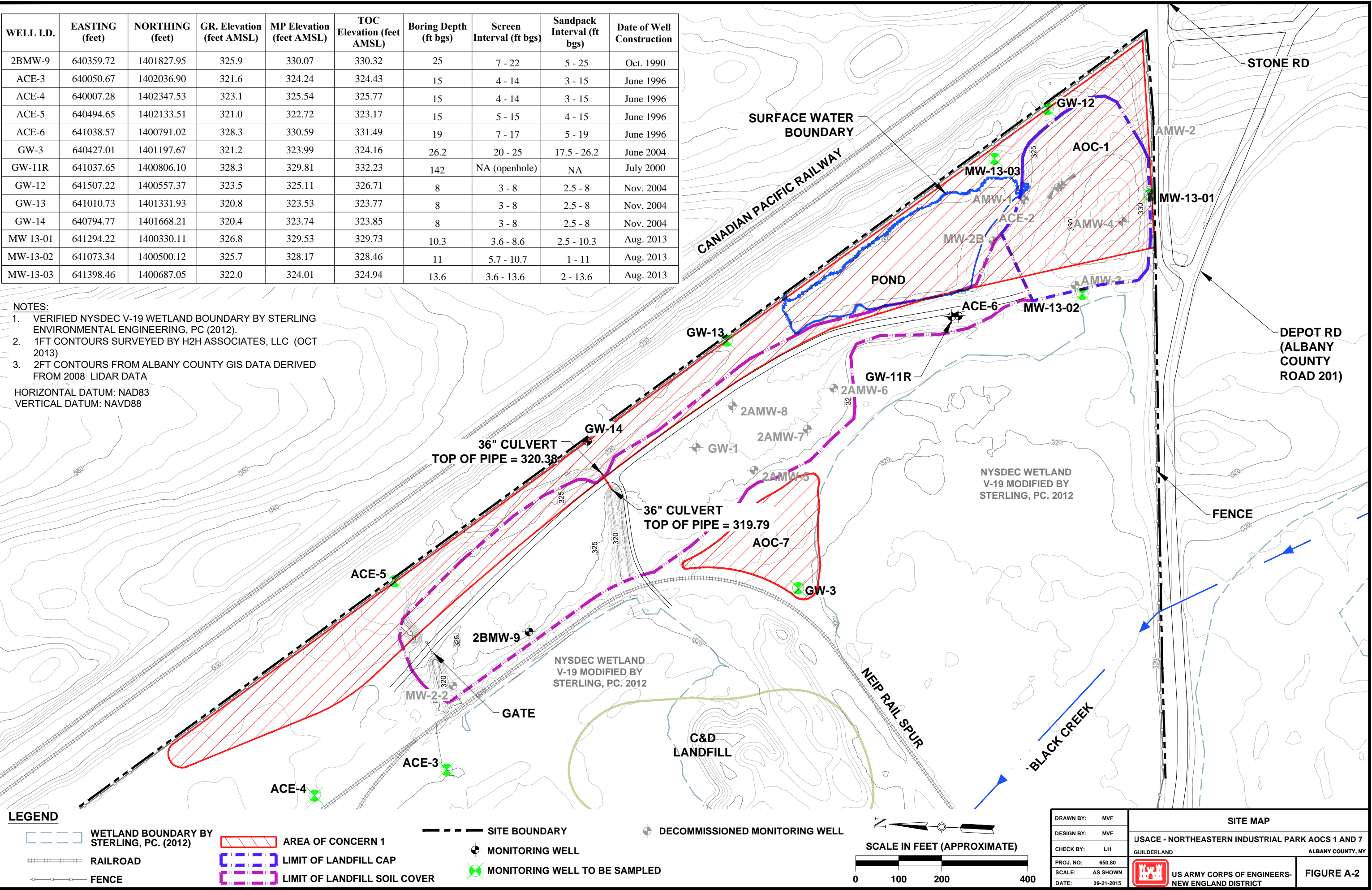
**Bluestone**

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WELL I.D.	EASTING (feet)	NORTHING (feet)	GR. Elevation (feet AMSL)	MP Elevation (feet AMSL)	TOC Elevation (feet AMSL)	Boring Depth (ft bgs)	Screen Interval (ft bgs)	Sandpack Interval (ft bgs)	Date of Well Construction
2BMW-9	640359.72	1401827.95	325.9	330.07	330.32	25	7 - 22	5 - 25	Oct. 1990
ACE-3	640050.67	1402036.90	321.6	324.24	324.43	15	4 - 14	3 - 15	June 1996
ACE-4	640007.28	1402347.53	323.1	325.54	325.77	15	4 - 14	3 - 15	June 1996
ACE-5	640494.65	1402133.51	321.0	322.72	323.17	15	5 - 15	4 - 15	June 1996
ACE-6	641038.57	1400791.02	328.3	330.59	331.49	19	7 - 17	5 - 19	June 1996
GW-3	640427.01	1401197.67	321.2	323.99	324.16	26.2	20 - 25	17.5 - 26.2	June 2004
GW-11R	641037.65	1400806.10	328.3	329.81	332.23	142	NA (openhole)	NA	July 2000
GW-12	641507.22	1400557.37	323.5	325.11	326.71	8	3 - 8	2.5 - 8	Nov. 2004
GW-13	641010.73	1401331.93	320.8	323.53	323.77	8	3 - 8	2.5 - 8	Nov. 2004
GW-14	640794.77	1401668.21	320.4	323.74	323.85	8	3 - 8	2.5 - 8	Nov. 2004
MW 13-01	641294.22	1400330.11	326.8	329.53	329.73	10.3	3.6 - 8.6	2.5 - 10.3	Aug. 2013
MW-13-02	641073.34	1400500.12	325.7	328.17	328.46	11	5.7 - 10.7	1 - 11	Aug. 2013
MW-13-03	641398.46	1400687.05	322.0	324.01	324.94	13.6	3.6 - 13.6	2 - 13.6	Aug. 2013

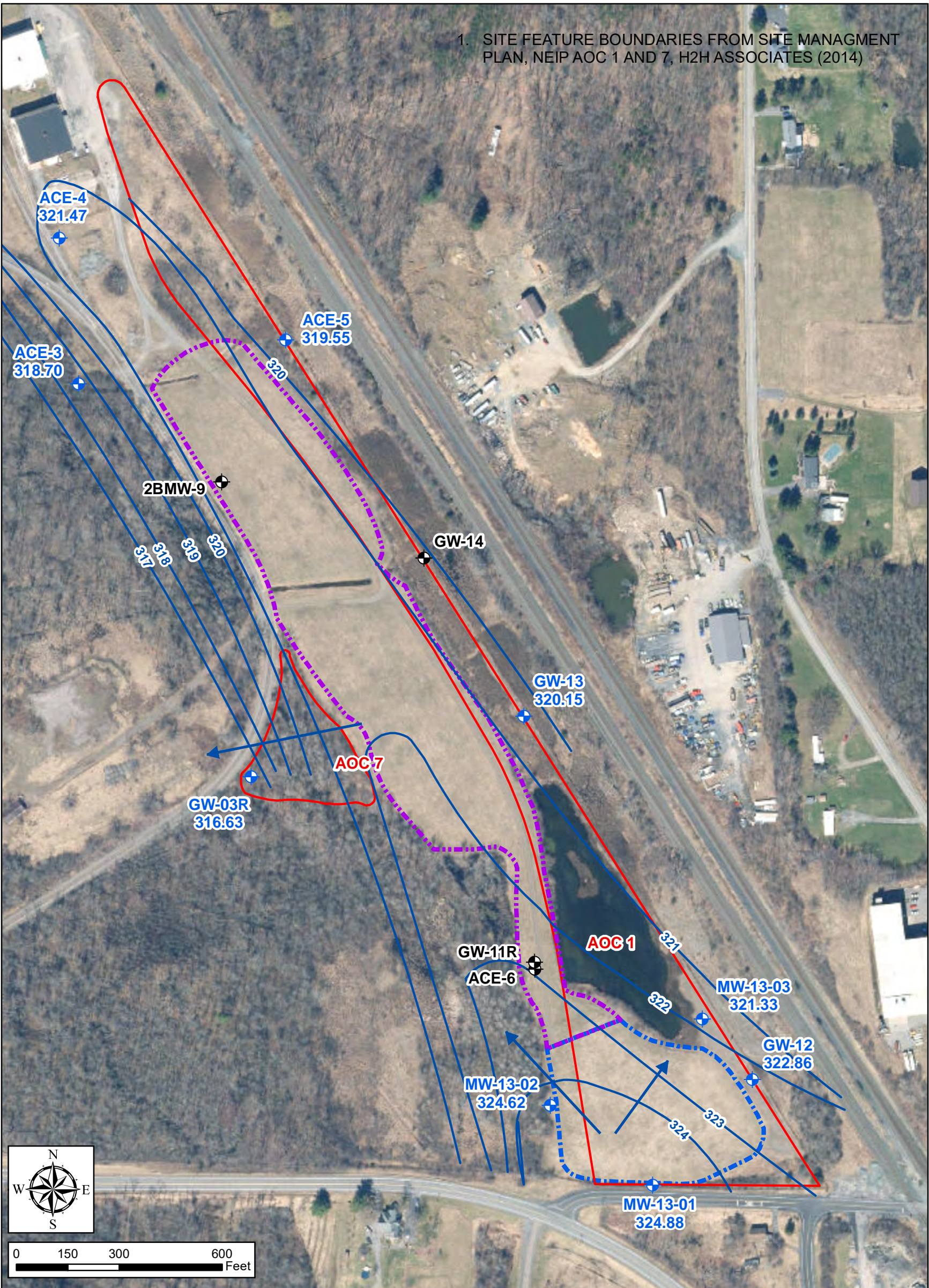
NOTES:  
1. VERIFIED NYSDEC V-19 WETLAND BOUNDARY BY STERLING ENVIRONMENTAL ENGINEERING, PC (2012).  
2. 1FT CONTOURS SURVEYED BY H2H ASSOCIATES, LLC (OCT 2013)  
3. 2FT CONTOURS FROM ALBANY COUNTY GIS DATA DERIVED FROM 2008 LIDAR DATA  
HORIZONTAL DATUM: NAD83  
VERTICAL DATUM: NAVD88



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1. SITE FEATURE BOUNDARIES FROM SITE MANAGEMENT PLAN, NEIP AOC 1 AND 7, H2H ASSOCIATES (2014)



**LEGEND**

- LONG-TERM MONITORING WELL
- OTHER MONITORING WELL
- AREA OF CONCERN
- LIMIT OF LANDFILL CAP
- LIMIT OF SOIL COVER
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER CONTOUR

SYNOPTIC LEVEL MEASUREMENTS IN FT. NAVD88 - COMPLETED 11/28/22.

**FIGURE A-3**  
**GROUNDWATER CONTOUR MAP**  
**NORTHEASTERN INDUSTRIAL PARK**  
**AOCS 1 AND 7, GUILDERLAND, NEW YORK**



US Army Corps  
of Engineers®



Bluestone



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## **APPENDIX B – ENVIRONMENTAL EASEMENT**

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## Allen & Desnoyers LLP

**Partners:**

Gregory J. Allen  
Dale A. Desnoyers  
Patrick L. Kehoe  
Denise J. D'Ambrosio

**Of Counsel:**

Ralph F. Ambrosio  
Darren S. O'Connor  
Val Washington  
George J. Hoffman, Jr.

### NOTICE TO MUNICIPALITY

#### CERTIFIED MAIL, RETURN RECEIPT REQUESTED

December 21, 2015

Hon. Peter G. Barber  
Town Supervisor  
Town of Guilderland  
P.O. Box 339, 5209 Western Tpk.  
Guilderland, New York 12084

Re: Environmental Easement

Dear Supervisor Barber:

Attached please find a copy of an environmental easement granted to the New York State Department of Environmental Conservation ("Department") on October 5, 2015, and recorded in the Office of the Albany County Clerk on November 5, 2015, by Northeastern IP Holdings for property at 2 Van Buren Blvd., Guilderland, New York, Tax Map No. 50.-1-14.21, DEC Site No: 401009.

This Environmental Easement restricts future use of the above-referenced property. Any on-site activity must be done in accordance with the Environmental Easement and the Site Management Plan which is incorporated into the Environmental Easement. Department approval is also required prior to any groundwater use.

Article 71, Section 71-3607 of the New York State Environmental Conservation Law requires that:

1. Whenever the department is granted an environmental easement, it shall provide each affected local government with a copy of such easement and shall also provide a copy of any documents modifying or terminating such environmental easement.
2. Whenever an affected local government receives an application for a building permit or any other application affecting land use or development of land that is subject to an environmental easement and that may relate to or impact such easement, the affected local government shall notify the department and refer such

application to the department. The department shall evaluate whether the application is consistent with the environmental easement and shall notify the affected local government of its determination in a timely fashion, considering the time frame for the local government's review of the application. The affected local government shall not approve the application until it receives approval from the department.

An electronic version of every environmental easement that has been accepted by the Department is available to the public at: <http://www.dec.ny.gov/chemical/36045.html>. Please forward this notice to your building and/or planning departments, as applicable, to ensure your compliance with these provisions of New York State Environmental Conservation Law. If you have any questions or comments regarding this matter, please do not hesitate to contact me.

Very truly yours,



Gregory J. Allen, Esq.





ALBANY COUNTY – STATE OF NEW YORK  
BRUCE A. HIDLEY COUNTY CLERK  
16 EAGLE STREET, ALBANY, NEW YORK 12207

COUNTY CLERK'S RECORDING PAGE

\*\*\*THIS PAGE IS PART OF THE DOCUMENT – DO NOT DETACH\*\*\*



INSTRUMENT #: 2015-103

Receipt#: 20150000693  
Clerk: SP  
Rec Date: 11/05/2015 10:15:50 AM  
Doc Grp: D  
Descrip: DEED, EASEMENT  
Num Pgs: 10  
Rec'd Frm: NYSDEC

Party1: NORTHEASTERN IP HOLDINGS INC  
Party2: PEOPLE OF STATE OF NEW YORK  
Town: GUILDERLAND TOWN

Recording:

Cover Page	5.00
Recording Fee	65.00
Cultural Ed	14.25
Records Management - Coun	1.00
Records Management - Stat	4.75
TP584	5.00

Sub Total: 95.00

Transfer Tax  
Transfer Tax - State 0.00

Sub Total: 0.00

Total: 95.00

\*\*\*\* NOTICE: THIS IS NOT A BILL \*\*\*\*

\*\*\*\*\* Transfer Tax \*\*\*\*\*

Transfer Tax #: 2210  
Transfer Tax  
Consideration: 0.00

Total: 0.00

Record and Return To:

BOX 8

THIS PAGE CONSTITUTES THE CLERK'S  
ENDORSEMENT, REQUIRED BY SECTION 316-a (5)  
& 319 OF THE REAL PROPERTY LAW OF THE  
STATE OF NEW YORK.

Bruce A. Hidley  
Albany County Clerk



9  
SP  
County: Albany Site No: 401009

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36  
OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this 5<sup>th</sup> day of October, 2015, between Owner(s) Northeastern IP Holdings, Inc., having an office at 695 Rotterdam Industrial Park, Schenectady, New York 12306, County of Albany, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 2 Van Buren Blvd in the Town of Guilderland, County of Albany and State of New York, known and designated on the tax map of the County Clerk of Albany as tax map parcel numbers: Section 50 Block 1 Lot 14.21, being the same as that property conveyed to Grantor by deed dated September 30, 2001 and recorded in the Albany County Clerk's Office in Liber and Page 2720/1002. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 26.062 +/- acres, and is hereinafter more fully described in the Land Title Survey dated January 2, 2013 and last revised on March 31, 2014 prepared by Bruce W. Snyder, Delta Engineers, Architects, & Land Surveyors, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is



extinguished pursuant to ECL Article 71, Title 36; and

**NOW THEREFORE, in consideration of the mutual covenants contained herein, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement")**

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

**A. (1) The controlled property is currently zoned for industrial uses as described in 6 NYCRR Part 375-1.8 (g)(2)(iv) and Guilderland Code 280-23.I. The controlled property is subject to additional restrictions as set forth in this Environmental Easement and Site Management Plan.**

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Albany County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;



(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section  
Division of Environmental Remediation  
NYSDEC  
625 Broadway  
Albany, New York 12233  
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

**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 Environmental Conservation Law.**

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement



A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to: Site Number: 401009  
Office of General Counsel  
NYSDEC  
625 Broadway  
Albany New York 12233-5500

With a copy to: Site Control Section  
Division of Environmental Remediation  
NYSDEC  
625 Broadway  
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.



7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

Northeastern IP Holdings, Inc.:

By: 

Print Name: David M. Buicko

Title: Exec Vice Pres/COO Date: 7/21/15

Box 8  
Sneeringer Monahan Provost  
Redgrave Title Agency, Inc.  
420 Warren Street  
Hudson, New York 12534  
518 828-4351 or 800 724-7856

M-059947

Record + Return to:  
Allen & Deshayors LLP  
90 State Street, Suite 1009  
Albany, New York 12207

County: Albany Site No: 401009

**Grantor's Acknowledgment**

STATE OF NEW YORK     )  
COUNTY OF Schenectady     ) ss:

On the 21 day of July, in the year 2015, before me, the undersigned, personally appeared DAVID BUIKOW, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Sandra D. Andi  
Notary Public - State of New York

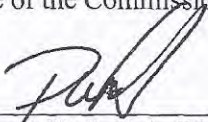
SANDRA D. ANDI  
Notary Public, State of New York  
No. 4737914  
Qualified in Albany County  
Commission Expires November 30, 2017



County: Albany Site No: 401009

**THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK**, Acting By and Through the Department of Environmental Conservation as Designee of the Commissioner,

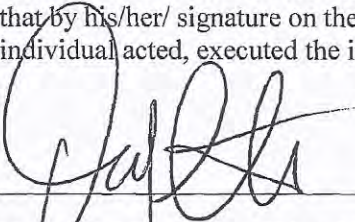
By:

  
Robert W. Schick, Director  
Division of Environmental Remediation

**Grantee's Acknowledgment**

STATE OF NEW YORK     )  
                                  ) ss:  
COUNTY OF ALBANY    )

On the 5<sup>th</sup> day of October, in the year 2015, before me, the undersigned, personally appeared Robert W. Schick, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

  
\_\_\_\_\_  
Notary Public - State of New York

**David J. Chiusano**  
Notary Public, State of New York  
No. 01CH5082146  
Qualified in Schenectady County  
Commission Expires August 22, 2018



**SCHEDULE "A" PROPERTY DESCRIPTION**

ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE TOWN OF  
GUILDERLAND, COUNTY OF ALBANY AND STATE OF NEW YORK, BOUNDED AND  
DESCRIBED AS FOLLOWS:

Beginning at a point on the northerly highway boundary of Stone Road (Depot Road) (Voorheesville - Guilderland Center County Road #201), said point standing at the intersection of the northerly highway boundary of Stone Road (Depot Road) (Voorheesville - Guilderland Center County Road #201) with the westerly boundary of the lands of CSX Transportation, Inc. (Reputed Owner) (New York Central Railroad Company - Now or Formerly) (West Shore Railroad); thence S89°03'21"W 176.16 feet along the northerly highway boundary of Stone Road (Depot Road) (Voorheesville - Guilderland Center County Road #201) a metal fence post; thence N88°25'41"W 300.02 feet continuing along the northerly highway boundary of Stone Road (Depot Road) (Voorheesville - Guilderland Center County Road #201) to a metal fence post; thence N80°53'43"W 66.23 feet to a metal fence post; thence N81°55'11"W 88.99 feet to an iron rod; thence N03°09'49"E 1.00 feet to an iron rod; thence N87°55'11"W 70.55 feet still along the northerly highway boundary of Stone Road (Depot Road) (Voorheesville - Guilderland Center County Road #201) to an iron rod; thence N33°25'31"W 1,046.57 feet to an iron rod; thence northerly 487.89 feet along a curve to the left with a radius of 410.00 feet, a delta angle of 68°10'48" and a chord bearing and distance of N01°40'04"E 459.61 feet to an iron rod, thence N32°25'20"W 785.00 feet to an iron rod; thence N70°57'28"E 343.83 feet to an iron rod standing on the westerly boundary of the lands reputedly owned by CSX Transportation, Inc.; thence S32°25'20"E 2,534.68 feet along the westerly boundary of the lands reputedly owned by CSX Transportation, Inc. to the point and place of beginning.

Environmental Easement parcel containing 26.062 Acres (1,135,281.3 sq.ft.) more or less.

Subject to a 15 ft. wide permanent easement, reserved to the United States of America, its successors and assigns, for joint use with the Town of Guilderland Urban Renewal Agency, its successors and assigns, of the existing railroad tracks, together with an easement for the installation, construction, maintenance, replacement, or relocation and patrol of such facilities, in, on, over, and through the above referenced premises.

Also Subject to any other easements, covenants or restrictions of record.

*RdR*

Sneeringer Monahan Provost  
Redgrave Title Agency, Inc.  
420 Warren Street  
Hudson, New York 12534  
518 828-4351 or 800 724-7856

*Box 8*

*m - 059947*





PROPOSED DESCRIPTION OF A PORTION OF THE LANDS OF  
**NORTHEASTERN IP HOLDINGS, INC.**  
DEPOT ROAD, TOWN OF GUILDERLAND, ALBANY COUNTY

**Beginning** at a point on the northerly highway boundary of Stone Road (Depot Road) (Voorheesville - Guilderland Center County Road #201), said point standing at the intersection of the northerly highway boundary of Stone Road (Depot Road) (Voorheesville - Guilderland Center County Road #201) with the westerly boundary of the lands of CSX Transportation, Inc. (Reputed Owner) (New York Central Railroad Company - Now or Formerly) (West Shore Railroad) (Guilderland Center County Road #201), **G** **feet** along the northerly highway boundary of Stone Road (Depot Road) (Voorheesville - Guilderland Center County Road #201) to a metal fence post; thence **B<sup>5</sup> ¼ N 89° E 130.002 feet** continuing along the northerly highway boundary of Stone Road (Depot Road) (Voorheesville - Guilderland Center County Road #201) to a metal fence post; thence **B<sup>5</sup> ½ S 76° E 66.23 feet** to a metal fence post; thence **B<sup>5</sup> ¾ N 68° E 88.99 feet** to an iron rod; thence **B<sup>5</sup> ½ S 76° E 1.00 feet** to an iron rod; thence **B<sup>5</sup> ¼ N 89° E 75.55 feet** still along the northerly highway boundary of Stone Road (Depot Road) (Voorheesville - Guilderland Center County Road #201) to a metal fence post; thence **B<sup>5</sup> ½ S 76° E 1,046.57 feet** to an iron rod; thence **Northerly 487.89 feet** along a right-of-way easement owned by CSX Transportation, Inc. (Reputed Owner) (New York Central Railroad Company - Now or Formerly) (West Shore Railroad) (Guilderland Center County Road #201) to a metal fence post; thence **B<sup>5</sup> ½ S 76° E 134.33 feet** to an iron rod standing on the westerly border of the lands reputedly owned by CSX Transportation, Inc.; thence **G<sup>5</sup> 66° E 86.61 ft**, **2,534.68 feet** along the westerly boundary of the lands of reputedly owned by CSX Transportation, Inc. to the **point and place of beginning.**

**Subject to** a 15 ft. wide permanent easement, reserved to the United States of America, its successors and assigns, for joint use with the Town of Gunderland Urban Renewal Agency, its successors and assigns, of the existing railroad tracks, together with an easement for the installation, construction, maintenance, replacement, or relocation and patrol of such facilities, in, on, over, and through the above referenced premises.

- ⊙ Denotes Existing Iron Rod
- SIR ○ Denotes Set Iron Rod
- Denotes Set Metal Survey Marker
- Denotes Existing Power Pole
- Denotes Overhead Power Pole Line
- FH ○ Denotes Existing Fire Hydrant
- 12 ○ Denotes Existing Monitoring Well
- 33 ○ Denotes Existing Monitoring Well
- Denotes Existing Bollard
- Denotes Existing Street Sign
- Denotes Location Of Landfill Cap Area By Map Reference #2
- Denotes Location Of Soil Cover Area By Map Reference #2
- 7 Denotes Location Of Area Of Concern

D.R. #1 To  
Northeastern IP Holdings, Inc.  
Quit Claim Deed - Dated: September 30, 2002  
Liber 2720 Of Deeds At Page 1002

**Subject to** any state of facts a current Abstract of Title may show.

**Subject to** any other Easements, Covenants or Restrictions of Record.

**(M.R. #1)** Park, Inc. Showing Buildings, Easements And Exceptions”  
By Richard Danskin, P.C., Dated August 15, 1980, Revised On  
October 2, 1980, Last Revised On May 19, 2003

**(M.R. #2)** Northeast Industrial Park Area Of Concern 1  
Landfill Cap / Soil Cover Site Plan”  
Town Of Guilderland - Albany County - State Of New York  
By U.S. Army Corps Of Engineers, New England District  
Concord, Massachusetts Dated January 23, 2014

36.58 M      0 M      36.58 M      73.15 M      109.73 M

**A** Existing Railroad Tracks Encroach Over The Northwest Property Line Of The "Environmental Easement" Onto The Remaining Lands Of Northeastern IP Holdings , INC. A Distance Of 2.5 Feet By 1272.89 Feet.

HCH5 @57 F95; 9 9BJ=F CBA9BH5 @95 G9A9BH=G"&\* '\$&- '57 F9G"  
(1,135,281.3± Sq. Ft.)

BEGINNING at a point on the center line of tracks of GSA PMDS Depot where it joins the east bound main line of the N.Y.C.R.R. and runs: thence southwesterly on the arc of a circle curving to the left, having a central angle of 6° and '51, a radius of 608.60 feet for an arc distance of 64.61 feet; thence S8°08'E, a distance of 53.28 feet; thence on the arc of a circle curving to the left having a central angle of 1° 3' a radius of 2,223.94 feet for an arc distance of 40.11 feet; thence S9°11'E, a distance of 171.83 feet; thence on the arc of a circle curving to the left having a central angle of 1° 3' a radius of 2,223.94 feet for an arc distance of 40.11 feet; thence S10°11'E, a distance of 171.83 feet; thence on the arc of a circle curving to the left having a central angle of 1° 3' a radius of 2,223.94 feet for an arc distance of 40.11 feet; thence S11°11'E, a distance of 171.83 feet; thence on the arc of a circle curving to the left, having a central angle of 6° 53', a radius of 463.07 feet for an arc distance of 56.62 feet; thence S14°13'E, a distance of 74.60 feet; thence on the arc of a circle curving to the left, having a central angle of 6° 58', a radius of 465.41 feet for an arc distance of 56.72 feet; thence S7°13'E, a distance of 45.49 feet; thence on the arc of a circle curving to the left, having a central angle of 7° 0', a radius of 490.51 feet for an arc distance of 59.92 feet;

Beginning at a point in the division line between the lands now or formerly of the Central School District No. 2, Towns of Guilford, Bethlehem and New Scotland on the Northwest and lands now or formerly of the United States of America (Schenckadedy General Depot-Voorheesville Area) on the Southeast, said point being 148.76 feet southwesterly from the southeast corner of said division line, and then easterly along the said point being 148.76 feet southwesterly from the southeast corner of said division line on a magnetic bearing of 61.5 degrees 15 minutes 15 seconds to a point, the northwesterly distance of which is 107.0000 feet, to the intersection of the line of the United States of America (Schenckadedy General Depot-Voorheesville Area-Southern) with the line of the United States of America (Boundary Railroads-Boundary and Property Line), dated March 27, 1952, and made by E.W. Boutelle and Son; thence southwesterly along said division line 1,000.00 feet to a point, thence southwesterly with an interior angle on 90 deg. and through the lands now or formerly of the United States of America, a distance of 252.59 feet to a point; thence northeasterly with an interior angle of 111 deg. 14'44" continuing through lands now or formerly of the United States of America, a distance of 296.41 feet to a point; thence northeasterly with an interior angle of 158 deg. 43'16" along a line parallel to the aforementioned division line and continuing through lands now or formerly of the United States of America, a distance of 131.45 feet to a point; thence northeasterly with the interior angle of 107 deg. 00'00" and continuing through the lands now or formerly of the United States of America, a distance of 376.45 feet to a point of beginning, the last mentioned course making an interior angle of 73 deg. 00'00" with the first mentioned course.

Portion Of The Lands Of  
**Northeastern IP Holdings, Inc.**

Town Of Guilderland - Albany County  
State Of New York

Surveyor's Certification

TO: New York State Department Of Environmental Conservation

THE UNDERSIGNED HEREBY CERTIFIES THAT THIS IS  
AN ACCURATE MAP OF AN ACTUAL FIELD SURVEY  
DATED: January 2, 2013 AND  
THAT BOTH MAP AND SURVEY ARE CORRECT.

**Bruce W. Snyder** Y  
Registered Land Surveyor No.050195  
In The State Of New York  
Date Of Survey: January 2, 2013  
Date Of Last Revision: March 31, 2013  
Project Number: 2013.453.001



SHEET 1 OF 1

**3 NYS Route 5, Vernon, NY 13476**  
**Tel: 315.953.4200**  
**Fax: 315.953.4202**  
**Website: [www.deltacngineers.com](http://www.deltacngineers.com)**



**DELTA**  
ENGINEERS, ARCHITECTS, & LAND SURVEYORS

Unauthorized Alteration Or Addition To A Survey Map Bearing A Licensed Land Surveyor's Seal Is A Violation Of Section 7209-2, Of The New York State Education Law.

Only Copies From The Original Of This Survey Marked With The Land Surveyor's Signature And An Original Embossed Or Ink Seal Shall Be Considered Valid True Copies.



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## **APPENDIX C – SITE CHRONOLOGY**

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### Chronology of Site Events

Event	Date
DoD Ownership and Use as Warehouse and Storage Complex	1941 to 1969
Albany County Environmental Management Council (ACEMC) Report Prompting Environmental Concern at NEIP	1980
FUDS Project Initiation	1989
Landfill Added to FUDS Project	1990
Remedial Investigation for AOC 1	1997
Remedial Investigations for AOC 1 and 7	1999 to 2007
Feasibility Study for AOC 1 and 7	2010
Proposed Plan Issued for AOC 1 and 7	February 2011
Decision Document Signed	11 October 2011
Pre-Design Investigation	October 2012 to December 2012
100% Remedial Design	June 2013
Remedial Construction	06 June 2013 to 06 September 2013
Groundwater Monitoring Events	12 May 2014 28 July 2015 18 October 2016 19-20 December 2017 07-08 May 2018 28-30 November 2022
Landfill Cap and Soil Cover Inspections	14 May 2014 03 August 2015 21 October 2016 11 October 2017 24-25 October 2018 30 October 2019 08-09 October 2020 07 October 2021 25 October 2022
Site Management Plan (SMP) Finalized	August 2014
New York State Department of Environmental Conservation (NYSDEC) Concurrence with Cap Installation	14 January 2015
EE Approval	21 December 2015
NYSDEC Notification of Change in Site Classification from 2 to 4	13 February 2017
First FYR	06 June 2018
Replacement of Monitoring Well GW-3	18 July 2019

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## **APPENDIX D – PUBLIC NOTICE**

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**PUBLIC NOTICE FOR START OF  
SECOND FIVE-YEAR REVIEW  
FOR NORTHEASTERN INDUSTRIAL PARK,  
ALBANY COUNTY, NEW YORK**

The U.S. Army Corps of Engineers (USACE) is conducting the second Five-Year Review (FYR) for the selected remedy at Areas of Concern (AOCs) 1 and 7 at the Northeastern Industrial Park (NEIP), formerly known as the Schenectady Army Depot-Voorheesville Area (SADVA), located at 2 Van Buren Boulevard, Guilderland, Albany County, New York. The FYR will be conducted in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) under the Defense Environmental Restoration Program (DERP). FYRs provide an opportunity to evaluate the implementation and performance of a remedy to determine whether it remains protective of human health and the environment. Pursuant to 40 Code of Federal Regulations (CFR) §300.430(f)(4)(ii), reviews take place five years following the start of a CERCLA response action and are repeated every succeeding five years so long as hazardous substances, pollutants or contaminants remain at the site above levels that allow for unlimited use and unrestricted exposure.

In 2013, USACE constructed a landfill cap and cover system over the former Army landfill (AOC 1) and implemented land-use controls, to prevent exposure to potential buried waste. The remedy also included monitored natural attenuation to address the volatile organic compounds (VOCs) in groundwater, which included trichloroethene (TCE), 1,2-dichloroethane, total-1,2-dichloroethene, and vinyl chloride. An environmental easement was put in place to prohibit withdrawal of groundwater from the area encompassing AOCs 1 & 7. The first FYR was completed in June 2018. The purpose of this review is to ensure the selected remedy remains protective of human health and the environment. If the review identifies issues that affect protectiveness, the FYR report will recommend improvements. USACE plans to issue the final, second FYR in June 2023.

The public is invited to provide any information regarding this site that it deems relevant to the review process and is requested to postmark comments no later than 31 March 2023. Public input should be directed to the USACE's point of contact listed below. Upon completion of the FYR, the report will be placed in the Information Repository, and another public notice will be issued to present findings of the review.

**Information Repositories**

Guilderland Public Library  
2228 Western Avenue (Route 20)  
Guilderland, NY 12084  
518-456-2400

Voorheesville Public Library  
51 School Road  
Voorheesville, NY 12186  
518-765-2791

**Administrative Record**

The Administrative Record can also be found through the following USACE website:

<http://www.nan.usace.army.mil/Missions/Environmental/Environmental-Remediation/Formerly-Used-Defense-Sites/Former-Schenectady-Army-Depot-Voorheesville-Area/>

For more information, or to send comments, please contact:

Christopher T. Gallo  
Project Manager  
USACE New York District  
26 Federal Plaza, Room 17-401  
New York, NY 10278-0900  
917-790-8230  
[christopher.t.gallo@usace.army.mil](mailto:christopher.t.gallo@usace.army.mil)

# TIMES UNION | Classified Marketplace

Albany, NY

Friday, January 27, 2023

2:52 PM EST

[HOME](#) > [LEGAL NOTICES](#) > [LEGALS](#)

PUBLIC NOTICE FOR START OF SECOND FIVE-YEAR REVIEW FOR NORTHEASTERN INDUSTRIAL PARK, ALBANY COUNTY, NEW YORK The U.S. Army Corps of Engineers (USACE) is conducting the second Five-Year Review (FYR) for the selected remedy at Areas of Concern (AOCs) 1 and 7 at the Northeastern Industrial Park (NEIP), formerly known as the Schenectady Army Depot-Voorheesville Area (SADVA), located at 2 Van Buren Boulevard, Guilderland, Albany County, New York. The FYR will be conducted in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) under the Defense Environmental Restoration Program (DERP). FYRs provide an opportunity to evaluate the implementation and performance of a remedy to determine whether it remains protective of human health and the environment. Pursuant to 40 Code of Federal Regulations (CFR) §300.430(f)(4)(ii), reviews take place five years following the start of a CERCLA response action and are repeated every succeeding five years so long as hazardous substances, pollutants or contaminants remain at the site above levels that allow for unlimited use and unrestricted exposure. In 2013, USACE constructed a landfill cap and cover system over the former Army landfill (AOC 1) and implemented land-use controls, to prevent exposure to potential buried waste. The remedy also included monitored natural attenuation to address the volatile organic compounds (VOCs) in groundwater, which included trichloroethene (TCE), 1,2-dichloroethane, total-1,2-dichloroethene, and vinyl chloride. An environmental easement was put in place to prohibit withdrawal of groundwater from the area encompassing AOCs 1 & 7. The first FYR was completed in June 2018. The purpose of this review is to ensure the selected remedy remains protective of human health and the environment. If the review identifies issues that affect protectiveness, the FYR report will recommend improvements. USACE plans to issue the final, second FYR in June 2023. The public is invited to provide any information regarding this site that it deems relevant to the review process and is requested to postmark comments no later than 31 March 2023. Public input should be directed to the USACE's point of contact listed below. Upon completion of the FYR, the report will be placed in the Information Repository, and another public notice will be issued to present findings of the review. Information Repositories Guilderland Public Library 2228 Western Avenue (Route 20) Guilderland, NY 12084 518-456-2400 Voorheesville Public Library 51 School Road Voorheesville, NY 12186 518-765-2791 Administrative Record The Administrative Record can also be found through the following USACE website: <http://www.nan.usace.army.mil/Missions/Environmental/Environmental-Remediation/Formerly-Used-Defense-Sites/Former-Schenectady-Army-Depot-Voorheesville-Area/> For more information, or to send comments, please contact: Christopher T. Gallo Project Manager USACE New York District 26 Federal Plaza, Room 17-401 New York, NY 10278-0900 917-790-8230 [christopher.t.gallo@usace.army.mil](mailto:christopher.t.gallo@usace.army.mil) TU1t 4235862

## **APPENDIX E – SITE INTERVIEW FORMS**

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**NORTHEASTERN INDUSTRIAL PARK (NEIP)  
AREAS OF CONCERN (AOCs) 1 AND 7  
FIVE-YEAR REVIEW**

<b>INTERVIEW RECORD</b>		
<b>Site Name:</b> Northeastern Industrial Park		<b>FUDS ID:</b> C02NY00203
<b>Subject:</b> Five-Year Review Interview		<b>Time:</b> 10:00am <b>Date:</b> 01/27/23
<b>Type:</b> Telephone      Visit <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Other: MS Teams</span> <b>Location of Visit:</b> N/A		Incoming <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Outgoing</span>
<b>Contact Made By:</b>		
<b>Name:</b> Ms. Jennifer Harris	<b>Title:</b> Senior Engineer	<b>Organization:</b> Bluestone Environmental Group, Inc.
<b>Individual Contacted:</b>		
<b>Name:</b> Mr. Christopher Gallo	<b>Title:</b> Project Manager	<b>Organization:</b> USACE New York
<b>Telephone No:</b> 917.790.8230 (Office) 917.575.1819 (Mobile) <b>Fax No:</b> N/A <b>E-Mail Address:</b> christopher.t.gallo@usace.army.mil		<b>Street Address:</b> 26 Federal Plaza, Room 17-401 <b>City, State, Zip:</b> New York, NY 10278-0090
<b>Summary Of Conversation</b>		
The purpose of this call was to interview Mr. Christopher Gallo, the USACE New York District Project Manager. The interview was conducted remotely via MS Teams, on 27 January 2023. Overall, Mr. Gallo feels that the remedy is functioning as intended.		





**Questions:**

**1. What is your role specific to NEIP?**

*Mr. Gallo has been serving as the Geographic Program Manager and USACE New York District Project Manager for NEIP since March 2022. The project is funded through USACE New York District, but the technical management is performed through USACE New England District. Mr. Gallo is primarily responsible for funding issues and stakeholder interaction.*

**2. Are you aware of any recurring issues at the NEIP landfill?**

*Other than a few fence issues, he is not aware of any recurring issues at the NEIP landfill.*

**3. What, if any, issues have been encountered and corrected at NEIP since the implementation of the cap and cover system?**

*No known.*

**4. What, if any, issues were experienced during the implementation of the cap and cover system?**

*No known (prior to his tenure on the project).*

**5. Are there any unusual situations, or problems, at the site?**

*No known.*

**6. Have there been any changes to the land uses of the landfill cap and cover or surrounding areas?**

*None to date.*

**7. Are there any anticipated changes to land uses surrounding the landfill cap and cover?**

*A solar field project has been proposed for the site, but is still in the planning stages. USACE, the site owner, and a solar company are working on a Site Management Plan that will identify responsibilities for site management and damage that may occur to the landfill cap and cover.*

**8. Has there been any construction in AOC 1 or 7?**

*None, since construction of the landfill and soil cover.*

**9. Has the property been sold, subdivided, merged or undergone a tax map amendment during this period? Has there been a change of ownership?**

*No, the property has not been sold, subdivided, merged or undergone a tax map amendment. There has been no change in ownership.*

**10. Have any Federal, State, or local permits been issued for the property during this period?**

*No known.*





**11. Have any drinking water sources been installed in AOC 1 or 7? Have any surface waters been used for drinking water in AOC 1?**

*No, there have been no new drinking water sources installed or surface water sources used for drinking water.*

**12. What is your overall impression of the project? (general sentiment)**

*Mr. Gallo feels that the project is going well. The remedy is functioning as expected, with long-term monitoring indicating no off-site migration and the cap/cover system performing as intended.*

**13. What affects have site operations had on the surrounding community?**

*None.*

**14. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details.**

*Mr. Gallo is not aware of any community concerns regarding the site or its operation and administration. However, the library has asked how long the information repository needs to be maintained.*

**15. Are you aware of any events, incidents, or activities at the site such as vandalism, trespassing, or emergency responses from local authorities? If so, please give details.**

*No known.*

**16. Do you feel well informed about the site's activities and progress?**

*Yes. Mr. Gallo feels well informed about the site's activities and progress.*

**17. Is the remedy functioning as intended?**

*Yes, as mentioned previously, the remedy is functioning as intended.*

**18. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?**

*No. Mr. Gallo has no other comments, suggestions, or recommendations. He feels that the site's management is running smoothly.*

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**NORTHEASTERN INDUSTRIAL PARK (NEIP)  
AREAS OF CONCERN (AOCs) 1 AND 7  
FIVE-YEAR REVIEW**

<b>INTERVIEW RECORD</b>		
<b>Site Name:</b> Northeastern Industrial Park		<b>FUDS ID:</b> C02NY00203
<b>Subject:</b> Five-Year Review Interview		<b>Time:</b> 09:00am <b>Date:</b> 02/08/23
<b>Type:</b> <u>Telephone</u> Visit    Other: MS Teams <b>Location of Visit:</b> N/A		Incoming <u>Outgoing</u>
<b>Contact Made By:</b>		
<b>Name:</b> Ms. Jennifer Harris	<b>Title:</b> Senior Engineer	<b>Organization:</b> Bluestone Environmental Group, Inc.
<b>Individual Contacted:</b>		
<b>Name:</b> Mr. Dean D. Brammer	<b>Title:</b> Chief, Environmental Engineering Section	<b>Organization:</b> USACE New England District
<b>Telephone No:</b> O: 978-318-8144 C: 978-399-6137 <b>Fax No:</b> N/A <b>E-Mail Address:</b> Dean.D.Brammer@usace.army.mil		<b>Street Address:</b> 696 Virginia Road <b>City, State, Zip:</b> Concord, MA 01742
<p style="text-align: center;"><b>Summary Of Conversation</b></p> <p>The purpose of this call was to interview Mr. Dean Brammer of USACE New England District. The interview was conducted via telephone on 08 February 2023. Mr. Brammer's general impression is that the remedy is functioning as intended and limits site access. He also feels that the site would be a good candidate for a solar array, since it is located in a remote, unused portion of the facility.</p>		



**Questions:**

**1. What is your role specific to NEIP?**

*Mr. Brammer is the current Contracting Officer's Representative (COR) and former Project Manager for the NEIP project. He has been supporting the project since the design phase. He managed the site maintenance and long-term monitoring project from approximately 2017 through 2021, when he transitioned into his new role as Chief of the Environmental Engineering Section.*

**2. Are you aware of any recurring issues at the NEIP landfill?**

*Nothing significant, only minor repairs.*

**3. What, if any, issues have been encountered and corrected at NEIP since the implementation of the cap and cover system?**

*He recalls repairs of one of the culverts and minor repairs to the surface. Fence damage has also been reported over the years, but is the responsibility of the site owner. He also mentioned that one of the monitoring wells was replaced due to silting in and not related to any site activities or vandalism.*

**4. What, if any, issues were experienced during the implementation of the cap and cover system?**

*No known.*

**5. Are there any unusual situations, or problems, at the site?**

*No known.*

**6. Have there been any changes to the land uses of the landfill cap and cover or surrounding areas?**

*None to date.*

**7. Are there any anticipated changes to land uses surrounding the landfill cap and cover?**

*There is a solar array project that has been proposed for the site that is still in the planning stage. USACE has been coordinating with the State and property owner regarding potential impacts from the array installation and changes to the Site Management Plan.*

**8. Has there been any construction in AOC 1 or 7?**

*Not aware of any construction in AOC 1 or 7.*

**9. Has the property been sold, subdivided, merged or undergone a tax map amendment during this period? Has there been a change of ownership?**

*No changes in ownership.*

**10. Have any Federal, State, or local permits been issued for the property during this period?**

*None to date.*





**11. Have any drinking water sources been installed in AOC 1 or 7? Have any surface waters been used for drinking water in AOC 1?**

*There is an Environmental Easement that prohibits the use of site groundwater as a drinking water source, so no new drinking water sources have been installed. Surface water is not used for drinking water.*

**12. What is your overall impression of the project? (general sentiment)**

*Overall, the project has been successful. The solar array, if approved, would be a good use of the site, appropriate for the location (remote corner) and land use for the site.*

**13. What affects have site operations had on the surrounding community?**

*Positive impact since the waste has been covered.*

**14. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details.**

*No known. Public meetings were held during the construction phase, with minimal comments.*

**15. Are you aware of any events, incidents, or activities at the site such as vandalism, trespassing, or emergency responses from local authorities? If so, please give details.**

*No known.*

**16. Do you feel well informed about the site's activities and progress?**

*Yes. Mr. Brammer has been involved with the project for several years and is well informed.*

**17. Is the remedy functioning as intended?**

*Yes, the remedy is functioning as intended and limits site access.*

**18. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?**

*No specific comments. Mr. Brammer feels there is good coordination between the State, USACE, and property owner and that the site has been maintained well by the contractor over the past few years. He also feels that it would be a good site for a solar array.*

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**NORTHEASTERN INDUSTRIAL PARK (NEIP)  
AREAS OF CONCERN (AOCs) 1 AND 7  
FIVE-YEAR REVIEW**

<b>INTERVIEW RECORD</b>			
<b>Site Name:</b> Northeastern Industrial Park		<b>FUDS ID:</b> C02NY00203	
<b>Subject:</b> Five-Year Review Interview		<b>Time:</b> 10:00 AM	<b>Date:</b> 2/9/2023
<b>Type:</b> Telephone            Visit            Other: <u>MS Teams</u> <b>Location of Visit:</b> N/A		<b>Incoming</b> <u>Outgoing</u>	
<b>Contact Made By:</b>			
<b>Name:</b> Mr. Carl Gibney	<b>Title:</b> Environmental Scientist	<b>Organization:</b> Bluestone Environmental Group, Inc.	
<b>Individual Contacted:</b>			
<b>Name:</b> Ms. Heather Bishop	<b>Title:</b> Project Manager	<b>Organization:</b> NYSDEC, Division of Environmental Remediation	
<b>Telephone No:</b> 518-415-5885  <b>Fax No:</b> N/A <b>E-Mail Address:</b> heather.bishop@dec.ny.gov		<b>Street Address:</b> 625 Broadway <b>City, State, Zip:</b> Albany, NY 12233	
<b>Summary Of Conversation</b>			
<p>The purpose of this call was to interview Heather Bishop as part of the second Five Year Review for the Northeastern Industrial Park, AOCs 1 and 7. Ms. Bishop has been involved with the site since the cap and cover system was implemented and now serves as NYSDEC's Project Manager for the site. Ms. Bishop is not aware of any issues at the site and believes the remedy has been successful. She believes that the planned solar array project would be a good use for the site, as long as it goes through all the regulatory procedures.</p>			



**Questions:**

**1. What is your role specific to NEIP?**

*Project Manager for NYSDEC, Division of Environmental Remediation.*

**2. Are you aware of any recurring issues at the NEIP landfill?**

*Not to my knowledge.*

**3. What, if any, issues have been encountered and corrected at NEIP since the implementation of the cap and cover system?**

*No issues come to mind. Annual maintenance continues to be performed.*

**4. What, if any, issues were experienced during the implementation of the cap and cover system?**

*Water bodies nearby. Neighbor to the south was curious, but not concerned. USACE and NYSDEC visited the neighbor and informed them of the project.*

**5. Are there any unusual situations, or problems, at the site?**

*Not to my knowledge.*

**6. Have there been any changes to the land uses of the landfill cap and cover or surrounding areas?**

*Not to my knowledge.*

**7. Are there any anticipated changes to land uses surrounding the landfill cap and cover?**

*There is a plan to build a solar array.*

**8. Has there been any construction in AOC 1 or 7?**

*No.*

**9. Has the property been sold, subdivided, merged or undergone a tax map amendment during this period? Has there been a change of ownership?**

*Not to my knowledge.*

**10. Have any Federal, State, or local permits been issued for the property during this period?**

*No.*





- 11. Have any drinking water sources been installed in AOC 1 or 7? Have any surface waters been used for drinking water in AOC 1?**

*No.*

- 12. What is your overall impression of the project? (general sentiment)**

*It has been a successful remedy. If we can put a solar array there that would be great.*

- 13. What effects have site operations had on the surrounding community?**

*No detrimental effects. No one really notices it's there. The neighbor to the south was curious, but not concerned at the beginning of the implementation of the remedy.*

- 14. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details.**

*No.*

- 15. Are you aware of any events, incidents, or activities at the site such as vandalism, trespassing, or emergency responses from local authorities? If so, please give details.**

*No.*

- 16. Do you feel well informed about the site's activities and progress?**

*Yes.*

- 17. Is the remedy functioning as intended?**

*Yes.*

- 18. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?**

*Continue to provide O&M reports. I think the solar array project would be a good use of the site. There is some talk about creating a picnic area for the Park's workers as well.*

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**NORTHEASTERN INDUSTRIAL PARK (NEIP)  
AREAS OF CONCERN (AOCs) 1 AND 7  
FIVE-YEAR REVIEW**

<b>INTERVIEW RECORD</b>		
<b>Site Name:</b> Northeastern Industrial Park		<b>FUDS ID:</b> C02NY00203
<b>Subject:</b> Five-Year Review Interview		<b>Time:</b> 10:06am <b>Date:</b> 02/09/23
<b>Type:</b> Telephone    Visit    Other: <u>Email</u>		<u>Incoming</u> Outgoing
<b>Location of Visit:</b> N/A		
<b>Contact Made By:</b>		
<b>Name:</b> Ms. Jennifer Harris	<b>Title:</b> Senior Engineer	<b>Organization:</b> Bluestone Environmental Group, Inc.
<b>Individual Contacted:</b>		
<b>Name:</b> Ms. Lindsay Roberts (on behalf of Mr. David Ahl, Chief Operating Officer)	<b>Title:</b> Leasing Administrator	<b>Organization:</b> Galesi Group
<b>Telephone No:</b> 518-356-4445  <b>Fax No:</b> N/A <b>E-Mail Address:</b> lroberts@galesi.com	<b>Street Address:</b> 220 Harborside Drive, Suite 300 <b>City, State, Zip:</b> Schenectady, NY 12305	
<b>Summary Of Conversation</b>		
Ms. Roberts responded via email on 09 February 2023, on behalf of Mr. David Ahl, Chief Operating Officer, Galesi Group to the list of interview questions provided by Bluestone. Overall, Mr. Ahl feels the remedy is working properly and he is pleased with the current management of the site.		



**Questions:**

**1. What is your role specific to NEIP?**

*Mr. Ahl is the Chief Operating Officer of Galesi Group, which includes overseeing operations of the Northeastern Industrial Park.*

**2. Are you aware of any recurring issues at the NEIP landfill?**

*No issues that I'm aware of.*

**3. What, if any, issues have been encountered and corrected at NEIP since the implementation of the cap and cover system?**

*No issues that I'm aware of.*

**4. What, if any, issues were experienced during the implementation of the cap and cover system?**

*No issues that I'm aware of.*

**5. Are there any unusual situations, or problems, at the site?**

*No issues that I'm aware of.*

**6. Have there been any changes to the land uses of the landfill cap and cover or surrounding areas?**

*No issues that I'm aware of.*

**7. Are there any anticipated changes to land uses surrounding the landfill cap and cover?**

*There is a solar company that is currently working directly with the Army Corps of Engineers (Christopher Gallo) that may result in a change of use.*

**8. Has there been any construction in AOC 1 or 7?**

*None.*

**9. Has the property been sold, subdivided, merged or undergone a tax map amendment during this period? Has there been a change of ownership?**

*Not that I know of.*

**10. Have any Federal, State, or local permits been issued for the property during this period?**

*Not that I know of.*



**11. Have any drinking water sources been installed in AOC 1 or 7? Have any surface waters been used for drinking water in AOC 1?**

*No.*

**12. What is your overall impression of the project? (general sentiment)**

*The project seems to be running smoothly with minimal disruption to the operations of our industrial park.*

**13. What affects have site operations had on the surrounding community?**

*None that I'm aware of.*

**14. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details.**

*No.*

**15. Are you aware of any events, incidents, or activities at the site such as vandalism, trespassing, or emergency responses from local authorities? If so, please give details.**

*No.*

**16. Do you feel well informed about the site's activities and progress?**

*Yes, our team has been informed of all activities happening on site as well as all other pertinent information.*

**17. Is the remedy functioning as intended?**

*As far as I know, yes, everything seems to be working properly.*

**18. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?**

*We are very pleased with the team that is managing the site, there are no concerns.*

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## **APPENDIX F – GROUNDWATER ANALYTICAL RESULTS**

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	LOCATION			ACE-3	ACE-3		ACE-3		ACE-3		ACE-3		ACE-3		ACE-3	
	SAMPLING DATE			11/20/2012	5/12/2014		7/27/2015		10/17/2016		12/19/2017		5/8/2018		11/28/2022	
	LAB SAMPLE ID			L1221157-06	L1410116-02		MC40285-2		JC29864		JC57698-2				680-226786-3	
	SAMPLE TYPE															
	SAMPLE DEPTH (ft.)															
		RG	Units			Qual		Qual		Qual		Qual		Qual		Qual

#### Volatiles Organics by GC/MS

	1,2-Dichloroethane	0.6	ug/l	U	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U
	1,2-Dichloroethene, Total	5	ug/l	U	2.5	U	0.50	U	0.50	U						
	Trichloroethene	5	ug/l	U	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U
	Vinyl chloride	2	ug/l	U	1	U	0.50	U	0.50	U	0.62	UJ <sup>1</sup>	1	U	1	U

<sup>1</sup>The %D was outside of acceptance limits for the closing continuing calibration and the value was associated with the non-compliant continuing calibration. Affected results were qualified "J", estimated, or UJ, estimated non-detect, on this basis.

RG = Remedial Goal; RGs for 1,2-dichloroethane and 1,2-dichloroethene are the New York State Ambient Water Quality Standard (TOGS 1.1.1). RGs for trichloroethene and vinyl chloride are the federal Maximum Contaminant Levels (MCLs).

All groundwater samples analyzed in November 2012 and May 2014 were by Alpha Analytical of Westborough, Massachusetts.

All groundwater samples analyzed in July/August 2015 were by Accutest New England, Marlborough, Massachusetts.

All groundwater samples collected in December 2017 were analyzed by SGS Accutest of Dayton, NJ

MW-13-1, MW-13-2 & GW-12 samples analyzed in October 2016 were by SGS Accutest New England, Marlborough, Massachusetts. The remainder of the October 2016 samples were Analyzed by SGS Accutest New Jersey.

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

J: Estimated - The analyte was positively identified; the quantitation is an estimation.

U: Not detected above laboratory limits of detection (LODs).

UJ: The analyte was analyzed for and was not present above the level of the associated value. The associated numerical value may not accurately or precisely represent the concentration necessary to detect the analyte in this sample.

	LOCATION			ACE-4	ACE-4		ACE-4		ACE-4		ACE-4		ACE-4		ACE-4	
	SAMPLING DATE			11/20/2012	5/12/2014		7/27/2015		10/17/2016		12/19/2017		5/8/2018		11/29/2022	
	LAB SAMPLE ID			L1221157-07	L1410116-03		MC40285-1		JC29864		JC57698-1		SL3994-3		680-226794-2	
	SAMPLE TYPE															
	SAMPLE DEPTH (ft.)															
		RG	Units			Qual		Qual		Qual		Qual		Qual		Qual

#### Volatile Organics by GC/MS

	1,2-Dichloroethane	0.6	ug/l	U	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U
	1,2-Dichloroethene, Total	5	ug/l	U	2.5	U	0.50	U	0.50	U						
	Trichloroethene	5	ug/l	U	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U
	Vinyl chloride	2	ug/l	U	1	U	0.50	U	0.50	U	0.62	UJ <sup>1</sup>	1	U	1	U

<sup>1</sup>The %D was outside of acceptance limits for the closing continuing calibration and the value was associated with the non-compliant continuing calibration. Affected results were qualified "J", estimated, or UJ, estimated non-detect, on this basis.

RG = Remedial Goal; RGs for 1,2-dichloroethane and 1,2-dichloroethene are the New York State Ambient Water Quality Standard (TOGS 1.1.1). RGs for trichloroethene and vinyl chloride are the federal Maximum Contaminant Levels (MCLs).

All groundwater samples analyzed in November 2012 and May 2014 were by Alpha Analytical of Westborough, Massachusetts.

All groundwater samples analyzed in July/August 2015 were by Accutest New England, Marlborough, Massachusetts.

All groundwater samples collected in December 2017 were analyzed by SGS Accutest of Dayton, NJ

MW-13-1, MW-13-2 & GW-12 samples analyzed in October 2016 were by SGS Accutest New England, Marlborough, Massachusetts. The remainder of the October 2016 samples were Analyzed by SGS Accutest New Jersey.

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

J: Estimated - The analyte was positively identified; the quantitation is an estimation.

U: Not detected above laboratory limits of detection (LODs).

UJ: The analyte was analyzed for and was not present above the level of the associated value. The associated numerical value may not accurately or precisely represent the concentration necessary to detect the analyte in this sample.

	LOCATION			ACE-5	ACE-5		ACE-5		ACE-5		ACE-5		ACE-5		ACE-5	
	SAMPLING DATE			11/20/2012	5/12/2014		7/27/2015		10/18/2016		12/20/2017		5/7/2018		11/29/2022	
	LAB SAMPLE ID			L1221157-08	L1410116-04		MC40285-3		JC29944		JC57789-4		SL38950-6		680-226794-3	
	SAMPLE TYPE															
	SAMPLE DEPTH (ft.)															
		RG	Units			Qual		Qual		Qual		Qual		Qual		Qual
<b>Volatile Organics by GC/MS</b>																
	1,2-Dichloroethane	0.6	ug/l	U	0.5	U	0.50	U	0.50	U	0.50	U	0.50	U	0.5	U
	1,2-Dichloroethene, Total	5	ug/l	U	2.5	U	0.50	U	0.50	U						
	Trichloroethene	5	ug/l	U	0.5	U	0.50	U	0.50	U	0.50	U	0.50	U	0.5	U
	Vinyl chloride	2	ug/l	U	1	U	0.50	U	0.50	U	0.62	UJ <sup>1</sup>	1.00	U	1	U

<sup>1</sup>The %D was outside of acceptance limits for the closing continuing calibration and the value was associated with the non-compliant continuing calibration. Affected results were qualified "J", estimated, or UJ, estimated non-detect, on this basis.

RG = Remedial Goal; RGs for 1,2-dichloroethane and 1,2-dichloroethene are the New York State Ambient Water Quality Standard (TOGS 1.1.1). RGs for trichloroethene and vinyl chloride are the federal Maximum Contaminant Levels (MCLs).

All groundwater samples analyzed in November 2012 and May 2014 were by Alpha Analytical of Westborough, Massachusetts.

All groundwater samples analyzed in July/August 2015 were by Accutest New England, Marlborough, Massachusetts.

All groundwater samples collected in December 2017 were analyzed by SGS Accutest of Dayton, NJ

MW-13-1, MW-13-2 & GW-12 samples analyzed in October 2016 were by SGS Accutest New England, Marlborough, Massachusetts. The remainder of the October 2016 samples were Analyzed by SGS Accutest New Jersey.

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

J: Estimated - The analyte was positively identified; the quantitation is an estimation.

U: Not detected above laboratory limits of detection (LODs).

UJ: The analyte was analyzed for and was not present above the level of the associated value. The associated numerical value may not accurately or precisely represent the concentration necessary to detect the analyte in this sample.

	LOCATION			GW-3	GW-3		GW-3		GW-3		GW-3		GW-3		GW-3R	
	SAMPLING DATE			11/20/2012	5/12/2014		7/28/2015		10/18/2016		12/20/2017		5/8/2018		11/28/2022	
	LAB SAMPLE ID			L1221157-05	L1410116-01		MC40306-1		JC29944		JC57698-3		SL3994-5RA		680-226786-2	
	SAMPLE TYPE															
	SAMPLE DEPTH (ft.)															
		RG	Units			Qual		Qual		Qual		Qual		Qual		Qual
<b>Volatile Organics by GC/MS</b>																
	1,2-Dichloroethane	0.6	ug/l	U	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U
	1,2-Dichloroethene, Total	5	ug/l	U	2.5	U	0.50	U	0.50	U						
	Trichloroethene	5	ug/l	U	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U
	Vinyl chloride	2	ug/l	U	1	U	0.50	U	0.50	U	0.62	UJ <sup>1</sup>	1	U	1	U

<sup>1</sup>The %D was outside of acceptance limits for the closing continuing calibration and the value was associated with the non-compliant continuing calibration. Affected results were qualified "J", estimated, or UJ, estimated non-detect, on this basis.

RG = Remedial Goal; RGs for 1,2-dichloroethane and 1,2-dichloroethene are the New York State Ambient Water Quality Standard (TOGS 1.1.1). RGs for trichloroethene and vinyl chloride are the federal Maximum Contaminant Levels (MCLs).

All groundwater samples analyzed in November 2012 and May 2014 were by Alpha Analytical of Westborough, Massachusetts.

All groundwater samples analyzed in July/August 2015 were by Accutest New England, Marlborough, Massachusetts.

All groundwater samples collected in December 2017 were analyzed by SGS Accutest of Dayton, NJ

MW-13-1, MW-13-2 & GW-12 samples analyzed in October 2016 were by SGS Accutest New England, Marlborough, Massachusetts. The remainder of the October 2016 samples were Analyzed by SGS Accutest New Jersey.

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

J: Estimated - The analyte was positively identified; the quantitation is an estimation.

U: Not detected above laboratory limits of detection (LODs).

UJ: The analyte was analyzed for and was not present above the level of the associated value. The associated numerical value may not accurately or precisely represent the concentration necessary to detect the analyte in this sample.



	LOCATION			GW-12	GW-12		GW-12		GW-12		GW-12		GW-12		GW-12	
	SAMPLING DATE			11/20/2012	5/15/2014		7/30/2015		10/19&24/2016		12/19&20/2017		5/7/2018		11/30/2022	
	LAB SAMPLE ID			L1221157-01	L1410490-01		MC40360-2		MC48383		JC57789-1		SL38950-1		680-226799-1	
	SAMPLE TYPE															
	SAMPLE DEPTH (ft.)															
		RG	Units			Qual		Qual		Qual		Qual		Qual		Qual

#### Volatile Organics by GC/MS

	1,2-Dichloroethane	0.6	ug/l	U	0.5	U	0.50	U	1.00	U	0.5	U	0.5	U	0.5	U
	1,2-Dichloroethene, Total	5	ug/l	U	2.5	U	0.50	U	1.00	U						
	Trichloroethene	5	ug/l	U	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U
	Vinyl chloride	2	ug/l	U	1	UJ	0.50	U	1.00	U	0.62	UJ <sup>1</sup>	1	U	1	U

<sup>1</sup>The %D was outside of acceptance limits for the closing continuing calibration and the value was associated with the non-compliant continuing calibration. Affected results were qualified "J", estimated, or UJ, estimated non-detect, on this basis.

RG = Remedial Goal; RGs for 1,2-dichloroethane and 1,2-dichloroethene are the New York State Ambient Water Quality Standard (TOGS 1.1.1). RGs for trichloroethene and vinyl chloride are the federal Maximum Contaminant Levels (MCLs).

All groundwater samples analyzed in November 2012 and May 2014 were by Alpha Analytical of Westborough, Massachusetts.

All groundwater samples analyzed in July/August 2015 were by Accutest New England, Marlborough, Massachusetts.

All groundwater samples collected in December 2017 were analyzed by SGS Accutest of Dayton, NJ

MW-13-1, MW-13-2 & GW-12 samples analyzed in October 2016 were by SGS Accutest New England, Marlborough, Massachusetts. The remainder of the October 2016 samples were Analyzed by SGS Accutest New Jersey.

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

J: Estimated - The analyte was positively identified; the quantitation is an estimation.

U: Not detected above laboratory limits of detection (LODs).

UJ: The analyte was analyzed for and was not present above the level of the associated value. The associated numerical value may not accurately or precisely represent the concentration necessary to detect the analyte in this sample.

	LOCATION			GW-13		GW-13		GW-13		GW-13		GW-13		GW-13	
	SAMPLING DATE			5/13/2014		7/28/2015		10/18/2016		12/20/2017		5/7/2018		11/28/2022	
	LAB SAMPLE ID			L1410230-03		MC40306-2		JC29944		JC57789-2		SL38950-5		680-226786-1	
	SAMPLE TYPE														
	SAMPLE DEPTH (ft.)														
		RG	Units		Qual		Qual	JC30071	Qual		Qual		Qual		Qual
<b>Volatile Organics by GC/MS</b>															
	1,2-Dichloroethane	0.6	ug/l	0.5	U	0.50	U	0.50	U	0.50 U	U	0.50	U	0.5	U
	1,2-Dichloroethene, Total	5	ug/l	2.5	U	0.50	U	0.50	U						
	Trichloroethene	5	ug/l	0.5	U	0.50	U	0.50	U	0.50 U	U	0.50	U	0.5	U
	Vinyl chloride	2	ug/l	1	UJ	0.50	U	0.50	U	0.62 U a	UJ <sup>1</sup>	1.00	U	1	U

<sup>1</sup>The %D was outside of acceptance limits for the closing continuing calibration and the value was associated with the non-compliant continuing calibration. Affected results were qualified "J", estimated, or UJ, estimated non-detect, on this basis.

RG = Remedial Goal; RGs for 1,2-dichloroethane and 1,2-dichloroethene are the New York State Ambient Water Quality Standard (TOGS 1.1.1). RGs for trichloroethene and vinyl chloride are the federal Maximum Contaminant Levels (MCLs).

All groundwater samples analyzed in November 2012 and May 2014 were by Alpha Analytical of Westborough, Massachusetts.

All groundwater samples analyzed in July/August 2015 were by Accutest New England, Marlborough, Massachusetts.

All groundwater samples collected in December 2017 were analyzed by SGS Accutest of Dayton, NJ

MW-13-1, MW-13-2 & GW-12 samples analyzed in October 2016 were by SGS Accutest New England, Marlborough, Massachusetts. The remainder of the October 2016 samples were Analyzed by SGS Accutest New Jersey.

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

J: Estimated - The analyte was positively identified; the quantitation is an estimation.

U: Not detected above laboratory limits of detection (LODs).

UJ: The analyte was analyzed for and was not present above the level of the associated value. The associated numerical value may not accurately or precisely represent the concentration necessary to detect the analyte in this sample.

	LOCATION			MW-13-1		MW-13-1		MW-13-1		MW-13-1		MW-13-1		MW-13-1	
	SAMPLING DATE			5/13/2014		7/30/2015		10/19&20/2016		12/19/2017		5/7/2018		11/30/2022	
	LAB SAMPLE ID			L1410230-01		MC40360-2		MC48383		JC57698-4		SL38950-3		680-226799-2	
	SAMPLE TYPE														
	SAMPLE DEPTH (ft.)														
		RG	Units		Qual		Qual		Qual		Qual		Qual		Qual
<b>Volatile Organics by GC/MS</b>															
	1,2-Dichloroethane	0.6	ug/l	0.5	U	0.50	U	1.0	U	0.5	U	0.5	U	0.5	U
	1,2-Dichloroethene, Total	5	ug/l	2.5	U	0.50	U	1.0	U						
	Trichloroethene	5	ug/l	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U
	Vinyl chloride	2	ug/l	1	UJ	0.50	U	1.0	U	0.62	UJ <sup>1</sup>	1	U	1	U

<sup>1</sup>The %D was outside of acceptance limits for the closing continuing calibration and the value was associated with the non-compliant continuing calibration. Affected results were qualified "J", estimated, or UJ, estimated non-detect, on this basis.

RG = Remedial Goal; RGs for 1,2-dichloroethane and 1,2-dichloroethene are the New York State Ambient Water Quality Standard (TOGS 1.1.1). RGs for trichloroethene and vinyl chloride are the federal Maximum Contaminant Levels (MCLs).

All groundwater samples analyzed in November 2012 and May 2014 were by Alpha Analytical of Westborough, Massachusetts.

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All groundwater samples collected in December 2017 were analyzed by SGS Accutest of Dayton, NJ

MW-13-1, MW-13-2 & GW-12 samples analyzed in October 2016 were by SGS Accutest New England, Marlborough, Massachusetts. The remainder of the October 2016 samples were Analyzed by SGS Accutest New Jersey.

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

J: Estimated - The analyte was positively identified; the quantitation is an estimation.

U: Not detected above laboratory limits of detection (LODs).

UJ: The analyte was analyzed for and was not present above the level of the associated value. The associated numerical value may not accurately or precisely represent the concentration necessary to detect the analyte in this sample.

	LOCATION			MW-13-2		MW-13-2		MW-13-2		MW-13-2		MW-13-2		MW-13-2	
	SAMPLING DATE			5/13/2014		7/29/2015		10/19&24/2016		12/19/2017		5/7/2018		11/30/2022	
	LAB SAMPLE ID			L1410230-02		MC40336-1		MC48383		JC57698-5		SL38950-2		680-226799-3	
	SAMPLE TYPE														
	SAMPLE DEPTH (ft.)														
		RG	Units		Qual		Qual		Qual		Qual		Qual		Qual
<b>Volatile Organics by GC/MS</b>															
	1,2-Dichloroethane	0.6	ug/l	0.5	U	0.50	U	1.00	U	0.5	U	0.5	U	0.5	U
	1,2-Dichloroethene, Total	5	ug/l	2.5	U	0.50	U	1.00	U						
	Trichloroethene	5	ug/l	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U
	Vinyl chloride	2	ug/l	1	UJ	0.50	U	1.00	U	0.62	UJ <sup>1</sup>	1	U	1	U

<sup>1</sup>The %D was outside of acceptance limits for the closing continuing calibration and the value was associated with the non-compliant continuing calibration. Affected results were qualified "J", estimated, or UJ, estimated non-detect, on this basis.

RG = Remedial Goal; RGs for 1,2-dichloroethane and 1,2-dichloroethene are the New York State Ambient Water Quality Standard (TOGS 1.1.1). RGs for trichloroethene and vinyl chloride are the federal Maximum Contaminant Levels (MCLs).

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	LOCATION			MW-13-3		MW-13-3		MW-13-3		MW-13-3		MW-13-3		MW-13-3	
	SAMPLING DATE			5/14/2014		7/29/2015		10/19/2016		12/19/2017		5/7/2018		11/29/2022	
	LAB SAMPLE ID			L1410358-01		MC40336-2		JC30071		JC57698-9		SL38950-2		680-226794-4	
	SAMPLE TYPE														
	SAMPLE DEPTH (ft.)														
		RG	Units		Qual		Qual		Qual		Qual				Qual

**Volatile Organics by GC/MS**

	1,2-Dichloroethane	0.6	ug/l	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U
	1,2-Dichloroethene, Total	5	ug/l	2.5	U	0.50	U	0.50	U						
	Trichloroethene	5	ug/l	0.5	U	0.50	U	0.50	U	0.5	U	0.5	U	0.5	U
	Vinyl chloride	2	ug/l	1	U	0.50	U	0.50	U	0.62	UJ <sup>1</sup>	1	U	1	U

<sup>1</sup>The %D was outside of acceptance limits for the closing continuing calibration and the value was associated with the non-compliant continuing calibration. Affected results were qualified "J", estimated, or UJ, estimated non-detect, on this basis.

RG = Remedial Goal; RGs for 1,2-dichloroethane and 1,2-dichloroethene are the New York State Ambient Water Quality Standard (TOGS 1.1.1). RGs for trichloroethene and vinyl chloride are the federal Maximum Contaminant Levels (MCLs).

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	LOCATION			DUP		DUP-01		DUP-01		DUP-01		DUP-01		DUP-01	
	SAMPLING DATE			5/13/2014		7/27/2015		10/17/2016		12/20/2017		5/7/2018		11/29/2022	
	LAB SAMPLE ID			L1410230-04		MC40285-4		JC29864				SL38950-7		680-226794-4	
	SAMPLE TYPE														
	SAMPLE DEPTH (ft.)														
		RG	Units	(MW-13-2)	Qual	(ACE-4)	Qual	(ACE-4)	Qual		Qual		Qual		Qual
<b>Volatile Organics by GC/MS</b>															
	1,2-Dichloroethane	0.6	ug/l	0.5	U	0.50	U	0.50	U	0.50	U	0.5	U	0.5	U
	1,2-Dichloroethene, Total	5	ug/l	2.5	U	0.50	U	0.50	U						
	Trichloroethene	5	ug/l	0.5	U	0.50	U	0.50	U	0.50	U	0.5	U	0.5	U
	Vinyl chloride	2	ug/l	1	UJ	0.50	U	0.5	U	0.62	UJ <sup>1</sup>	1	U	1	U

<sup>1</sup>The %D was outside of acceptance limits for the closing continuing calibration and the value was associated with the non-compliant continuing calibration. Affected results were qualified "J", estimated, or UJ, estimated non-detect, on this basis.

RG = Remedial Goal; RGs for 1,2-dichloroethane and 1,2-dichloroethene are the New York State Ambient Water Quality Standard (TOGS 1.1.1). RGs for trichloroethene and vinyl chloride are the federal Maximum Contaminant Levels (MCLs).

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## **APPENDIX G – SITE INSPECTION FORMS AND PHOTOGRAPHS**

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I. SITE INFORMATION	
<b>Site name:</b> Northeastern Industrial Park	<b>Date of inspection:</b> 25 October 2022
<b>Location and Region:</b> Guilderland, NY	<b>FUDS ID:</b> CO2NY00203
<b>Agency, office, or company leading the five-year review:</b> USACE	<b>Weather/temperature:</b> Overcast/light rain/ high 65°F
<b>Remedy Includes:</b> (Check all that apply) <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> Landfill cover/containment  <input type="checkbox"/> Access controls  <input checked="" type="checkbox"/> Institutional controls  <input type="checkbox"/> Groundwater pump and treatment  <input type="checkbox"/> Surface water collection and treatment  <input type="checkbox"/> Other _____            _____         </div> <div> <input checked="" type="checkbox"/> Monitored natural attenuation  <input type="checkbox"/> Groundwater containment  <input type="checkbox"/> Vertical barrier walls         </div> </div>	
<b>Attachments:</b> <input type="checkbox"/> Inspection team roster attached <input type="checkbox"/> Site map attached <input checked="" type="checkbox"/> Addl checklist	
II. INTERVIEWS (Check all that apply)	
<b>1. O&amp;M site manager</b> _____      _____      _____ <div style="display: flex; justify-content: space-between;"> <div>Name</div> <div>Title</div> <div>Date</div> </div> Interviewed <input type="checkbox"/> at site <input type="checkbox"/> at office <input type="checkbox"/> by phone   Phone no. _____ Problems, suggestions; <input type="checkbox"/> Report attached	
<b>2. O&amp;M staff</b> _____      _____      _____ <div style="display: flex; justify-content: space-between;"> <div>Name</div> <div>Title</div> <div>Date</div> </div> Interviewed <input type="checkbox"/> at site <input type="checkbox"/> at office <input type="checkbox"/> by phone   Phone no. _____ Problems, suggestions; <input type="checkbox"/> Report attached	

3. **Local regulatory authorities and response agencies** (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.

Agency	<u>NYSDEC</u>			
Contact	<u>Heather Bishop</u>	<u>Project Manager</u>	<u>02/09/2023</u>	<u>518-415-5885</u>
	Name	Title	Date	Phone no.

Problems; suggestions; x Report attached

Agency \_\_\_\_\_  
Contact \_\_\_\_\_

Name	Title	Date	Phone no.
------	-------	------	-----------

Problems; suggestions; ☐ Report attached

Agency \_\_\_\_\_

Contact \_\_\_\_\_

Name	Title	Date	Phone no.
------	-------	------	-----------

Problems; suggestions; ☐ Report attached

Agency \_\_\_\_\_  
 Contact \_\_\_\_\_

Name	Title	Date	Phone no.
------	-------	------	-----------

Problems; suggestions; ☐ Report attached

4. **Other interviews** (optional) x Reports attached.

USACE New York District, Chris Gallo, Project Manager, 01/27/2023, 917-790-8230

USACE New England District, Dean Brammer, Former Project Manager/Current Contracting Officer's Representative (COR), 02/08/2023, 978-318-8144

Galesi Group (Site Owner), Lindsay Roberts (Leasing Administrator) on behalf of David Ahl (Chief Operating Officer), 02/09/2023, 518-356-4445



III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply)				
1.	<b>O&amp;M Documents</b> <input type="checkbox"/> O&M manual <input type="checkbox"/> As-built drawings <input type="checkbox"/> Maintenance logs Remarks _____	<input type="checkbox"/> Readily available <input type="checkbox"/> Readily available <input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date <input type="checkbox"/> Up to date <input type="checkbox"/> Up to date	<input type="checkbox"/> N/A <input type="checkbox"/> N/A <input type="checkbox"/> N/A
2.	<b>Site-Specific Health and Safety Plan</b> <input type="checkbox"/> Contingency plan/emergency response plan Remarks _____	<input checked="" type="checkbox"/> Readily available <input type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date <input type="checkbox"/> Up to date	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A
3.	<b>O&amp;M and OSHA Training Records</b> Remarks _____	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A
4.	<b>Permits and Service Agreements</b> <input type="checkbox"/> Air discharge permit <input type="checkbox"/> Effluent discharge <input type="checkbox"/> Waste disposal, POTW <input type="checkbox"/> Other permits _____ Remarks _____	<input type="checkbox"/> Readily available <input type="checkbox"/> Readily available <input type="checkbox"/> Readily available <input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date <input type="checkbox"/> Up to date <input type="checkbox"/> Up to date <input type="checkbox"/> Up to date	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A
5.	<b>Gas Generation Records</b> Remarks _____	<input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input checked="" type="checkbox"/> N/A
6.	<b>Settlement Monument Records</b> Remarks _____	<input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input checked="" type="checkbox"/> N/A
7.	<b>Groundwater Monitoring Records</b> Remarks _____	<input checked="" type="checkbox"/> Readily available	<input checked="" type="checkbox"/> Up to date	<input type="checkbox"/> N/A
8.	<b>Leachate Extraction Records</b> Remarks _____	<input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input checked="" type="checkbox"/> N/A
9.	<b>Discharge Compliance Records</b> <input type="checkbox"/> Air <input type="checkbox"/> Water (effluent) Remarks _____	<input type="checkbox"/> Readily available <input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date <input type="checkbox"/> Up to date	<input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A
10.	<b>Daily Access/Security Logs</b> Remarks _____	<input type="checkbox"/> Readily available	<input type="checkbox"/> Up to date	<input checked="" type="checkbox"/> N/A

#### IV. O&M COSTS

1.	<b>O&amp;M Organization</b>
----	-----------------------------

- ☐ State in-house                      ☐ Contractor for State  
☐ PRP in-house                        ☐ Contractor for PRP  
☐ Federal Facility in-house          ☐ Contractor for Federal Facility  
x Other FUDS – Contractor for USACE

2	O&M Cost Records
---	------------------

2. **O&M Cost Records**  
☒ Readily available ☒ Up to date  
☒ Funding mechanism/agreement in place  
 Original O&M cost estimate \_\_\_\_\_ ☐ Breakdown attached

Total annual cost by year for review period if available	
--	--

From 2017 To 2018 \$133,161 ☐ Breakdown attached  
Date Date Total cost

From <u>2018</u>	To <u>2019</u>	<u>\$96,837</u>	<input type="checkbox"/> Breakdown attached
Date	Date	Total cost	
From <u>2018</u>	To <u>2020</u>	<u>\$74,833</u>	<input type="checkbox"/> Breakdown attached
Date	Date	Total cost	

From	<u>2019</u>	To	<u>2020</u>	<u>\$74,923</u>	<input type="checkbox"/> Breakdown attached
	Date		Date	Total cost	
From	<u>2020</u>	To	<u>2021</u>	<u>\$29,002</u>	<input type="checkbox"/> Breakdown attached

From          Date          To          Date          Total cost \$29,791 ☐ Breakdown attached

Date	Date	Total cost
------	------	------------

### 3. Unanticipated or Unusually High O&M Costs During Review Period

Describe costs and reasons:

None.

<b>V. ACCESS AND INSTITUTIONAL CONTROLS</b> <input checked="" type="checkbox"/> Applicable <input type="checkbox"/> N/A	
---	--

### A. Fencing

1. **Fencing damaged**    ☐ Location shown on site map    ☒ Gates secured    ☐ N/A

Remarks	Sagging fence near well GW-12
---------	-------------------------------

<b>B. Other Access Restrictions</b>
-------------------------------------

- |    |  |   |                              |
|----|--|---|------------------------------|
| 1. | <b>Signs and other security measures</b> | <input type="checkbox"/> Location shown on site map | <input type="checkbox"/> N/A |
|----|--|---|------------------------------|

Remarks Good condition

<b>C. Institutional Controls (ICs)</b>				
1.	<b>Implementation and enforcement</b> Site conditions imply ICs not properly implemented <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Site conditions imply ICs not being fully enforced <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A  Type of monitoring (e.g., self-reporting, drive by) <u>Inspection</u> Frequency <u>Annual</u> Responsible party/agency <u>USACE</u> Contact <u>Jeff Dvorak</u> <u>PM</u> <u>10/25/2022</u> <u>978-318-8464</u> <div style="display: flex; justify-content: space-around; font-size: small;"> <span>Name</span> <span>Title</span> <span>Date</span> <span>Phone no.</span> </div> Reporting is up-to-date <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Reports are verified by the lead agency <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A  Specific requirements in deed or decision documents have been met <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Violations have been reported <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Other problems or suggestions: <input type="checkbox"/> Report attached <hr style="border: 0; border-top: 1px solid black; margin-top: 10px;"/>			
2.	<b>Adequacy</b> <input checked="" type="checkbox"/> ICs are adequate <input type="checkbox"/> ICs are inadequate <input type="checkbox"/> N/A Remarks <hr style="border: 0; border-top: 1px solid black; margin-top: 5px;"/>			
<b>D. General</b>				
1.	<b>Vandalism/trespassing</b> <input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> No vandalism evident Remarks <hr style="border: 0; border-top: 1px solid black; margin-top: 5px;"/>			
2.	<b>Land use changes on site</b> <input checked="" type="checkbox"/> N/A Remarks <hr style="border: 0; border-top: 1px solid black; margin-top: 5px;"/>			
3.	<b>Land use changes off site</b> <input checked="" type="checkbox"/> N/A Remarks <hr style="border: 0; border-top: 1px solid black; margin-top: 5px;"/>			
<b>VI. GENERAL SITE CONDITIONS</b>				
<b>A. Roads</b> <input checked="" type="checkbox"/> Applicable <input type="checkbox"/> N/A				
1.	<b>Roads damaged</b> <input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> Roads adequate <input type="checkbox"/> N/A Remarks <hr style="border: 0; border-top: 1px solid black; margin-top: 5px;"/>			

<b>B. Other Site Conditions</b>		
Remarks _____ _____ _____ _____ _____ _____		
<b>VII. LANDFILL COVERS</b> <input checked="" type="checkbox"/> Applicable <input type="checkbox"/> N/A		
<b>A. Landfill Surface</b>		
1.	<b>Settlement</b> (Low spots) Areal extent _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> Settlement not evident Depth _____
2.	<b>Cracks</b> Lengths _____ Widths _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> Cracking not evident Depths _____
3.	<b>Erosion</b> Areal extent _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> Erosion not evident Depth _____
4.	<b>Holes</b> Areal extent _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> Holes not evident Depth _____
5.	<b>Vegetative Cover</b> <input type="checkbox"/> Grass <input type="checkbox"/> Cover properly established <input checked="" type="checkbox"/> No signs of stress <input type="checkbox"/> Trees/Shrubs (indicate size and locations on a diagram) Remarks _____	
6.	<b>Alternative Cover (armored rock, concrete, etc.)</b> <input checked="" type="checkbox"/> N/A Remarks _____	
7.	<b>Bulges</b> Areal extent _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> Bulges not evident Height _____

8.	<b>Wet Areas/Water Damage</b> <input type="checkbox"/> Wet areas <input type="checkbox"/> Ponding <input type="checkbox"/> Seeps <input type="checkbox"/> Soft subgrade Remarks _____	<input checked="" type="checkbox"/> Wet areas/water damage not evident <input type="checkbox"/> Location shown on site map Areal extent _____ <input type="checkbox"/> Location shown on site map Areal extent _____ <input type="checkbox"/> Location shown on site map Areal extent _____ <input type="checkbox"/> Location shown on site map Areal extent _____
9.	<b>Slope Instability</b> <input type="checkbox"/> Slides Areal extent _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> No evidence of slope instability
<b>B. Benches</b> <input type="checkbox"/> Applicable <input checked="" type="checkbox"/> N/A (Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.)		
1.	<b>Flows Bypass Bench</b> Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> N/A or okay
2.	<b>Bench Breached</b> Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> N/A or okay
3.	<b>Bench Overtopped</b> Remarks _____	<input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> N/A or okay
<b>C. Letdown Channels</b> <input type="checkbox"/> Applicable <input checked="" type="checkbox"/> N/A (Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.)		
1.	<b>Settlement</b> Areal extent _____ Depth _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input type="checkbox"/> No evidence of settlement
2.	<b>Material Degradation</b> Material type _____ Areal extent _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input type="checkbox"/> No evidence of degradation
3.	<b>Erosion</b> Areal extent _____ Depth _____ Remarks _____	<input type="checkbox"/> Location shown on site map <input type="checkbox"/> No evidence of erosion



4.	<b>Undercutting</b> <input type="checkbox"/> Location shown on site map <input type="checkbox"/> No evidence of undercutting Areal extent _____ Depth _____ Remarks _____
5.	<b>Obstructions</b> Type _____ <input type="checkbox"/> No obstructions <input type="checkbox"/> Location shown on site map      Areal extent _____ Size _____ Remarks _____
6.	<b>Excessive Vegetative Growth</b> Type _____ <input type="checkbox"/> No evidence of excessive growth <input type="checkbox"/> Vegetation in channels does not obstruct flow <input type="checkbox"/> Location shown on site map      Areal extent _____ Remarks _____
<b>D. Cover Penetrations</b> <input type="checkbox"/> Applicable    x N/A	
1.	<b>Gas Vents</b> <input type="checkbox"/> Active <input type="checkbox"/> Passive <input type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input type="checkbox"/> Good condition <input type="checkbox"/> Evidence of leakage at penetration <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____
2.	<b>Gas Monitoring Probes</b> <input type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input type="checkbox"/> Good condition <input type="checkbox"/> Evidence of leakage at penetration <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____
3.	<b>Monitoring Wells</b> (within surface area of landfill) <input type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input type="checkbox"/> Good condition <input type="checkbox"/> Evidence of leakage at penetration <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____
4.	<b>Leachate Extraction Wells</b> <input type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input type="checkbox"/> Good condition <input type="checkbox"/> Evidence of leakage at penetration <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____
5.	<b>Settlement Monuments</b> <input type="checkbox"/> Located <input type="checkbox"/> Routinely surveyed <input type="checkbox"/> N/A Remarks _____

<b>E. Gas Collection and Treatment</b>		<input type="checkbox"/> Applicable	<input checked="" type="checkbox"/> N/A
1.	<b>Gas Treatment Facilities</b> <input type="checkbox"/> Flaring <input type="checkbox"/> Thermal destruction <input type="checkbox"/> Collection for reuse <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____		
2.	<b>Gas Collection Wells, Manifolds and Piping</b> <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____		
3.	<b>Gas Monitoring Facilities</b> ( <i>e.g.</i> , gas monitoring of adjacent homes or buildings) <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____		
<b>F. Cover Drainage Layer</b>		<input type="checkbox"/> Applicable	<input checked="" type="checkbox"/> N/A
1.	<b>Outlet Pipes Inspected</b> <input type="checkbox"/> Functioning <input type="checkbox"/> N/A Remarks _____		
2.	<b>Outlet Rock Inspected</b> <input type="checkbox"/> Functioning <input type="checkbox"/> N/A Remarks _____		
<b>G. Detention/Sedimentation Ponds</b>		<input type="checkbox"/> Applicable	<input checked="" type="checkbox"/> N/A
1.	<b>Siltation</b> Areal extent _____                      Depth _____ <input type="checkbox"/> N/A <input type="checkbox"/> Siltation not evident Remarks _____		
2.	<b>Erosion</b> Areal extent _____                      Depth _____ <input type="checkbox"/> Erosion not evident Remarks _____		
3.	<b>Outlet Works</b> <input type="checkbox"/> Functioning <input type="checkbox"/> N/A Remarks _____		
4.	<b>Dam</b> <input type="checkbox"/> Functioning <input type="checkbox"/> N/A Remarks _____		

<b>H. Retaining Walls</b>		<input type="checkbox"/> Applicable	<input checked="" type="checkbox"/> N/A
1.	<b>Deformations</b>	<input type="checkbox"/> Location shown on site map	<input type="checkbox"/> Deformation not evident
	Horizontal displacement_____	Vertical displacement_____	
	Rotational displacement_____		
	Remarks_____		
2.	<b>Degradation</b>	<input type="checkbox"/> Location shown on site map	<input type="checkbox"/> Degradation not evident
	Remarks_____		
<b>I. Perimeter Ditches/Off-Site Discharge (Swales)</b>		<input checked="" type="checkbox"/> Applicable	<input type="checkbox"/> N/A
1.	<b>Siltation</b>	<input type="checkbox"/> Location shown on site map	<input checked="" type="checkbox"/> Siltation not evident
	Areal extent_____	Depth_____	
	Remarks_____		
2.	<b>Vegetative Growth</b>	<input type="checkbox"/> Location shown on site map	<input type="checkbox"/> N/A
	<input checked="" type="checkbox"/> Vegetation does not impede flow		
	Areal extent_____	Type_____	
	Remarks_____		
3.	<b>Erosion</b>	<input type="checkbox"/> Location shown on site map	<input checked="" type="checkbox"/> Erosion not evident
	Areal extent_____	Depth_____	
	Remarks_____		
4.	<b>Discharge Structure</b>	<input checked="" type="checkbox"/> Functioning	<input type="checkbox"/> N/A
	Remarks_____		
<b>VIII. VERTICAL BARRIER WALLS</b>		<input type="checkbox"/> Applicable	<input checked="" type="checkbox"/> N/A
1.	<b>Settlement</b>	<input type="checkbox"/> Location shown on site map	<input type="checkbox"/> Settlement not evident
	Areal extent_____	Depth_____	
	Remarks_____		
2.	<b>Performance Monitoring</b>	Type of monitoring_____	
	<input type="checkbox"/> Performance not monitored		
	Frequency_____	<input type="checkbox"/> Evidence of breaching	
	Head differential_____		
	Remarks_____		

<b>IX. GROUNDWATER/SURFACE WATER REMEDIES</b>		<input type="checkbox"/> Applicable	<input checked="" type="checkbox"/> N/A
<b>A. Groundwater Extraction Wells, Pumps, and Pipelines</b>		<input type="checkbox"/> Applicable	<input type="checkbox"/> N/A
1.	<b>Pumps, Wellhead Plumbing, and Electrical</b> <input type="checkbox"/> Good condition <input type="checkbox"/> All required wells properly operating <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____		
2.	<b>Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances</b> <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____		
3.	<b>Spare Parts and Equipment</b> <input type="checkbox"/> Readily available <input type="checkbox"/> Good condition <input type="checkbox"/> Requires upgrade <input type="checkbox"/> Needs to be provided Remarks _____		
<b>B. Surface Water Collection Structures, Pumps, and Pipelines</b>		<input type="checkbox"/> Applicable	<input checked="" type="checkbox"/> N/A
1.	<b>Collection Structures, Pumps, and Electrical</b> <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____		
2.	<b>Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances</b> <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____		
3.	<b>Spare Parts and Equipment</b> <input type="checkbox"/> Readily available <input type="checkbox"/> Good condition <input type="checkbox"/> Requires upgrade <input type="checkbox"/> Needs to be provided Remarks _____		

<b>C. Treatment System</b> <input type="checkbox"/> Applicable    x N/A			
1.	<b>Treatment Train</b> (Check components that apply) <input type="checkbox"/> Metals removal <input type="checkbox"/> Oil/water separation <input type="checkbox"/> Bioremediation <input type="checkbox"/> Air stripping <input type="checkbox"/> Carbon adsorbers <input type="checkbox"/> Filters _____ <input type="checkbox"/> Additive ( <i>e.g.</i> , chelation agent, flocculent) _____ <input type="checkbox"/> Others _____ <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> Sampling ports properly marked and functional <input type="checkbox"/> Sampling/maintenance log displayed and up to date <input type="checkbox"/> Equipment properly identified <input type="checkbox"/> Quantity of groundwater treated annually _____ <input type="checkbox"/> Quantity of surface water treated annually _____ Remarks _____		
2.	<b>Electrical Enclosures and Panels</b> (properly rated and functional) <input type="checkbox"/> N/A <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____		
3.	<b>Tanks, Vaults, Storage Vessels</b> <input type="checkbox"/> N/A <input type="checkbox"/> Good condition <input type="checkbox"/> Proper secondary containment <input type="checkbox"/> Needs Maintenance Remarks _____		
4.	<b>Discharge Structure and Appurtenances</b> <input type="checkbox"/> N/A <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____		
5.	<b>Treatment Building(s)</b> <input type="checkbox"/> N/A <input type="checkbox"/> Good condition (esp. roof and doorways) <input type="checkbox"/> Needs repair <input type="checkbox"/> Chemicals and equipment properly stored Remarks _____		
6.	<b>Monitoring Wells</b> (pump and treatment remedy) <input type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input type="checkbox"/> Good condition <input type="checkbox"/> All required wells located <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____		
<b>D. Monitoring Data</b>			
1.	Monitoring Data x Is routinely submitted on time                      x Is of acceptable quality		



2.	Monitoring data suggests: <input checked="" type="checkbox"/> Groundwater plume is effectively contained <input checked="" type="checkbox"/> Contaminant concentrations are declining
<b>D. Monitored Natural Attenuation</b>	
1.	<b>Monitoring Wells</b> (natural attenuation remedy) <input checked="" type="checkbox"/> Properly secured/locked <input checked="" type="checkbox"/> Functioning <input checked="" type="checkbox"/> Routinely sampled <input checked="" type="checkbox"/> Good condition <input checked="" type="checkbox"/> All required wells located <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____
<b>X. OTHER REMEDIES</b>	
If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.	
<b>XI. OVERALL OBSERVATIONS</b>	
<b>A. Implementation of the Remedy</b>	
Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.). <u>Landfill cap and soil cover constructed to eliminate exposure to potential subsurface waste.</u> <u>Groundwater monitoring (with sampling every five years) to verify that site COCs are not migrating off-site.</u>	
<b>B. Adequacy of O&amp;M</b>	
Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy. <u>Annual inspections and site maintenance are performed to maintain the integrity of the landfill cap, soil cover, and monitoring well network.</u>	
<b>C. Early Indicators of Potential Remedy Problems</b>	
Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future. <u>None.</u> _____ _____ _____	

**D. Opportunities for Optimization**

Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.

Groundwater analytes should be limited to site contaminants of concern and other  
parameters necessary to evaluate remedy performance.

\_\_\_\_\_  
\_\_\_\_\_



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### COVER SHEET

LANDFILL CAP/SOIL COVER INSPECTION  
AOC 1, Northeast Industrial Park, Guilderland, New York

FORM	Description	Completed?	Date Completed
Form 1	Final Cap/Cover System	Yes	10/25/22
Form 2	Stormwater Drainage Ditches	Yes	10/25/22
Form 3	Deficiencies and Problems	Yes	10/25/22

Notes: Stick-up casing @ GW-12 doesn't close; small burrows  
observed along east edge of cap; wood fence post damaged @ cap.

Attach and complete all Forms listed above. Check and date each Form at the time of completion.

WEATHER CONDITIONS:

overcast/mist/light rain, high 65°F

Inspection Date:

10/25/22

INSPECTOR:

Joseph Mante

SIGNATURE:

*[Signature]*



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FORM: Form 1

FINAL COVER/CAP SYSTEM - INSPECTION CHECKLIST  
AOC 1, Northeast Industrial Park, Guilderland, New York

Item No.	Item Title	Inspection Area	
		Landfill Cap	Soil Cover
1	Surface Cracks	✓	✓
2	Vegetative Growth	✓	✓
3	Vector Penetration	✓	✓
4	Settlement	✓	✓
5	Erosion	✓	✓
6	Slope Stability	✓	✓
7	Seepage	✓	✓
8	Condition of Perimeter/Fencing	✱	✓
9	Vandalism and Illegal Entry/Use	✓	✓
10	Change in Land Use Since Last Inspection	✓	✓
11	Condition of Monitoring Wells	✱	✓
12	Wildlife Observations	✱	✓

Inspection Date: 10/25/22

INSPECTOR: Joseph Mante

SIGNATURE:



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FORM: Form 2

STORMWATER MANAGEMENT SYSTEM - INSPECTION CHECKLIST  
AOC 1, Northeast Industrial Park, Guilderland, New York

ITEM NO.	ITEM TITLE	Inspection Area	
		Landfill Cap	Soil Cover
1	Overgrown Vegetation	✓	✓
2	Standing Water	✓	✓
3	Sediments and Debris	✓	✓
4	Erosion/Washouts	✓	✓
5	Culvert (where present)	✓	✓
6	Damage to riprap (where applicable)	✓ 0	✓ 1

Notes:

1. Check (✓): Area has been inspected for this condition and no problems were reported pertaining to the stormwater management system
2. Not Satisfactory (NS): Area has been inspected for this condition and problems have been identified. \* = viewed as a minor NS condition. A description of deficiencies is provided on Form 3.

Inspection Date: 10/25/22

INSPECTOR:

Joseph Magli

SIGNATURE:

Joseph Magli





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FORM: Form 3

DESCRIPTION OF DEFICIENCIES AND PROBLEMS  
AOC 1, Northeast Industrial Park, Guilderland, New York

Form No.	Location	Description of Deficiency and Problems	Corrective Action Taken
1	Landfill Cap	Leaning chain link fence @ GW-12	Responsibility of Property Owner.
1	Landfill cap	Broken wooden fence post north of cap	Bluestone will replace the wooden fence post. - Completed 11/29/22
1	Landfill cap	GW-12 cap does not close, PVC is protruding from top	Monitoring well is locked and secured for monitoring activities. No action at this time. Well is secured.
1	Landfill cap	small animal burrows near GW-12	Bluestone will fill burrows with topsoil. - Completed 11/29/22

Inspection Date: 10/25/22

INSPECTOR: Joseph Mayle

SIGNATURE:



**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: LC1  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: East  
Notes: Burrows along eastern edge of landfill cap



Photo ID: LC2  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: East  
Notes: Damaged fence post at landfill cap

**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: LC3  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: South  
Notes: Landfill cap from northeast corner facing south



Photo ID: LC4  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: Northwest  
Notes: Landfill cap edge from northern boundary facing northwest



**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: LC5  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: East  
Notes: Landfill cap from northern boundary facing east



Photo ID: LC6  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: South  
Notes: Landfill cap from northern boundary facing south

**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: LC7  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: West  
Notes: Landfill cap from northern boundary facing west



Photo ID: LC8  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: East  
Notes: Landfill cap from northwest corner facing east



**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: LC9  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: West  
Notes: Landfill cap from southern boundary facing west



Photo ID: LC10  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: East  
Notes: Landfill cap from southwest corner facing east

**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: LC11  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph:  
Notes: Landfill cap from southwest corner facing north (2)



Photo ID: LC12  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph:  
Notes: Landfill cap from southwest corner facing north



**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: LC13  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: East  
Notes: Leaning fencing along eastern boundary of the landfill cap



Photo ID: 2-BMW-9  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: South  
Notes: Monitoring Well 2-BMW-9

**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: ACE-3  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: South  
Notes: Monitoring Well ACE-3



Photo ID: ACE-4  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: North  
Notes: Monitoring Well ACE-4



**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: GW-3  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: South  
Notes: Monitoring Well GW-3



Photo ID: GW-11R  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: Northwest  
Notes: Monitoring Well GW-11R

**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: GW-12  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: Northeast  
Notes: Monitoring Well GW-12



Photo ID: MW-13-01  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: South  
Notes: Monitoring Well MW-13-01



**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: SW1  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: South  
Notes: Northern swale from access road facing south



Photo ID: SW2  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: Southwest  
Notes: Northern swale from access road facing southwest



**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: SC1  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: North  
Notes: Soil cover along access road facing north from  
ACE-6 and GW-11R wells



Photo ID: SC2  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: West  
Notes: Soil cover and northern swale from gate facing  
west

**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: SC3  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: South  
Notes: Soil cover from access road at the pond facing south



Photo ID: SC4  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: West  
Notes: Soil cover from access road at the pond facing west



**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: SC5  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: Southeast  
Notes: Soil cover from gate facing southeast



Photo ID: SC6  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: East  
Notes: Soil cover from Monitoring Well 2-BMW-9 facing east

**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: SW3  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: East  
Notes: Southern swale facing east



Photo ID: SW4  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: West  
Notes: Southern swale from access road facing west



**Photographic Log**  
**25 October 2022 Landfill Cap and Soil Cover Inspection**  
**AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: SC7  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: South  
Notes: View of soil cover facing south from gate



Photo ID: SW5  
Date: 25 October 2022  
Inspector: JM  
Direction of Photograph: North  
Notes: West culvert outlet in southern swale facing north



**Photographic Log**  
**29 November 2022 Landfill Cap and Soil Cover Corrective Actions**  
**Maintenance AOCs 1 & 7, Northeastern Industrial Park, Guilderland, NY**



Photo ID: CA1

Date: 29 November 2022

Inspector: CG

Direction of Photograph: Northeast

Notes: Animal burrows filled with  
topsoil



Photo ID: CA2

Date: 29 November 2022

Inspector: CG

Direction of Photograph: South

Notes: Wooden landfill cap fence repaired

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## **APPENDIX H – REFERENCE LIST**

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## REFERENCES

- Albany County Environmental Management Council (ACEMC), 1980. *Northeastern Industrial Park (Voorheesville Depot) and Vicinity, Closed Landfill Study*. 25 June 1980.
- Bluestone, 2018a. *Groundwater Monitoring and Annual Certification Report Number 4, Site Management Activities, Northeastern Industrial Park AOC 1 and 7, CO2NY000203, Former Schenectady Army Depot, Guilderland, New York*. Prepared for the USACE New England District under Contract Number W912WJ-17-C-0011. March 2018.
- Bluestone, 2018b. *Site Management Plan (Revision 1), Site Management Activities, Northeastern Industrial Park AOC 1 and 7, CO2NY000203, Former Schenectady Army Depot, Guilderland, New York*. Prepared for the USACE New England District under Contract Number W912WJ-17-C-0011. December 2018.
- Bluestone, 2019a. *Groundwater Monitoring and Annual Certification Report Number 5, Site Management Activities, Northeastern Industrial Park AOC 1 and 7, CO2NY000203, Former Schenectady Army Depot, Guilderland, New York*. Prepared for the USACE New England District under Contract Number W912WJ-17-C-0011. January 2019.
- Bluestone, 2019b. *Monitoring Well Decommissioning Report, Additional Groundwater Monitoring Wells at Northeastern Industrial Park, CO2NY000203, Former Schenectady Army Depot, Guilderland, New York*. Prepared for USACE New England District under Contract Number W912WJ-17-C-0011. September 2019.
- Bluestone, 2020a. *Annual Certification Report Number 6, Site Management Activities, Northeastern Industrial Park AOC 1 and 7, CO2NY000203, Former Schenectady Army Depot, Guilderland, New York*. Prepared for the USACE New England District under Contract Number W912WJ-17-C-0011. January 2020.
- Bluestone, 2020b. *Annual Certification Report Number 7, Site Management Activities, Northeastern Industrial Park AOC 1 and 7, CO2NY000203, Former Schenectady Army Depot, Guilderland, New York*. Prepared for the USACE New England District under Contract Number W912WJ-17-C-0011. October 2020.
- Bluestone, 2022a. *Annual Certification Report Number 8, Site Management Activities, Northeastern Industrial Park AOC 1 and 7, CO2NY000203, Former Schenectady Army Depot, Guilderland, New York*. Prepared for the USACE New England District under Contract Number W912WJ-17-C-0011. February 2022.
- Bluestone, 2022b. *Uniform Federal Policy – Quality Assurance Project Plan, Site Management Activities, Northeastern Industrial Park (Former Schenectady Army Depot – Voorheesville Area) Guilderland, New York*. Prepared for the USACE New England District under Contract Number W912WJ22C0015. November 2022.
- Bluestone, 2023. *Groundwater Monitoring and Annual Certification Report Number 9, Site Management Activities, Northeastern Industrial Park AOC 1 and 7, CO2NY000203, Former Schenectady Army Depot, Guilderland, New York*. Prepared for the USACE New England District under Contract Number W912WJ22C0015. January 2023.
- H2H Associates, LLC, 2014a. *Site Management Plan – Northeastern Industrial Park Area of Concern 1 & 7*. August 2014
- H2H Associates, LLC, 2014b. *Landfill Cap and Soil Cover Certification Report, Area of Concern 1, Northeastern Industrial Park, Guilderland, New York*. January 2014.



- Malcolm Pirnie, 1997. *Final Limited Remedial Investigation Report – Southern Disposal Landfill*. April 1997.
- New York State Department of Environmental Conservation (NYSDEC), 1998. *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*., T.O.G.S. 1.1.1
- NYSDEC, 2009. “CP-43:Groundwater Monitoring Well Decommissioning Policy.” November. [https://www.dec.ny.gov/docs/remediation\\_hudson\\_pdf/cp43mwdecomm.pdf](https://www.dec.ny.gov/docs/remediation_hudson_pdf/cp43mwdecomm.pdf)
- NYSDEC, 2018. Email Correspondence from Ms. Heather Bishop (NYSDEC) to Mr. Gregory Goepfert (USACE New York District). Subject: RE: Transmittal of Five Year Review Document to NYSDEC – Northeastern Industrial Park FUDS. May 2018.
- Parsons ES, 1998. *Final Preliminary Assessment Report Voorheesville Depot*. Prepared by Parsons Engineering Science, Inc. December 1998.
- Parsons, 2007. *Remedial Investigation Report, Former Schenectady Army Depot Voorheesville Area*. May 2007.
- Parsons, 2010. *Focused Feasibility Study for Areas of Concern 1 and 7 Former Schenectady Army Depot Voorheesville Area Guilderland, New York*. June 2010.
- Parsons, 2011. *Proposed Plan for Areas of Concern 1 and 7 Former Schenectady Army Depot Voorheesville Area Guilderland, New York*. February 2011.
- U.S. Army Corps of Engineers (USACE), 2011. *Final Decision Document, Former Schenectady Army Depot Areas of Concern 1 and 7: U.S. Army Southern Landfill and Triangular Disposal Area Formerly Used Defense Site*. Signed 11 October 2011.
- USACE, 2018. *Five- Year Review Report for Northeastern Industrial Park AOC 1 and 7, Former Schenectady Army Depot FUDS Site*. June 2018.
- USACE, 2021. *Northeastern Industrial Park, Formerly Used Defense Sites Program, Management Action Plan*. Data as of 2021 Annual Report to Congress.
- U.S. Army Toxic and Hazardous Materials Agency, 1980. *Historical Summary and Report of Findings at Schenectady General Depot, Guilderland, New York*. July 1980.
- U.S. Environmental Protection Agency (USEPA), 1996. *Application of the CERCLA Municipal Landfill Presumptive Remedy to Military Landfills*. Office of Solid Waste and Emergency Response (OSWER) Directive No. 9355.0-67FS. EPA/540/F096/020. December 1996.