Former Signore, Inc.

CATTARAUGUS COUNTY

ELLICOTTVILLE, NEW YORK

SITE MANAGEMENT PLAN

NYSDEC Site Number: C905034

Prepared for:

Iskalo Ellicottville Holdings LLC

Harbinger Square

5166 Main Street

Williamsville, New York 14221

Prepared by:

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Revisions to Final Approved Site Management Plan:

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date
1	11/16/2023	Change in Frequency of Groundwater Monitoring; Application of SVI Assessment Requirement; and Property Usage Restrictions on the SSF Site.	Date

NOVEMBER 2023

CERTIFICATION STATEMENT

I, BART A. KLETTKE, P.E., certify that I am currently a NYS registered professional engineer, as defined in 6 NYCRR Part 375, and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Bart A. Klettke BART A. KLETTKE, P.E.,

NOVEMBER 16, 2023 DATE

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SITE MANAGEMENT PLAN

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List of Acronyms

AS	Air Sparging
ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAMP	Community Air Monitoring Plan
C/D	Construction and Demolition
CFR	Code of Federal Regulation
CLP	Contract Laboratory Program
COC	Certificate of Completion
CO2	Carbon Dioxide
CP	Commissioner Policy
DER	Division of Environmental Remediation
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Approval Program
ERP	Environmental Restoration Program
GHG	Green House Gas
GWE&T	Groundwater Extraction and Treatment
HASP	Health and Safety Plan
IC	Institutional Control
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYCRR	New York Codes, Rules and Regulations
O&M	Operations and Maintenance
OM&M	Operation, Maintenance and Monitoring
OSHA	Occupational Safety and Health Administration
OU	Operable Unit
PID	Photoionization Detector
PRP	Potentially Responsible Party
PRR	Periodic Review Report
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RP	Remedial Party
RSO	Remedial System Optimization
SAC	State Assistance Contract
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Soil Management Plan
SOP	Standard Operating Procedures
SOW	Statement of Work

SPDES	State Pollutant Discharge Elimination System
SRI	Site Remedial Investigation
SSD	Sub-slab Depressurization
SSF	State Superfund
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
SVMS	Soil Vapor Mitigation System
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leachate Procedure
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program

ES EXECUTIVE SUMMARY

The following provides a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, maintenance and reporting activities required by this Site Management Plan:

Site Identification:	The Site consists of the combined Brownfield Cleanup Program Site (C905034) and the State Superfund Site (905023), 55-57 Jefferson Street, Ellicottville, NY
Institutional Controls:	1. The Site (combined BCP and State Superfund Site (SSF)) may be used for restricted residential, commercial, and industrial use.
	2. All Engineering Controls must be operated and maintained as specified in the 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 Cattaraugus County DOH 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

Site Identification:	The Site consists of the combined Brownfield Cleanup Program Site (C905034) and the State Superfund Site (905023), 55-57 Jefferson Street, Ellicottville, NY

	assure compliance with the restrictions identified by the Environmental Easement.
	11.Vegetable gardens and farming on the Site are prohibited.
Engineering Controls:	1. Assessment and/or control of Soil Vapor Intrusion for all occupied, existing or future buildings on the 13.65-acres Site (combined BCP and SSF). Actions will be implemented to address exposure related to SVI, if identified.

Inspections:	Frequency
1. Site-wide inspection	Annually
Monitoring:	
1. Groundwater Monitoring – Post Injection Wells	Annually
2. Groundwater Monitoring – ROD Wells	Biennially
Reporting:	
1. BCP Post-Injection Groundwater Monitoring Report	Annually
2. ROD Groundwater Monitoring Report	Biennially
3. Periodic Review Report	Triennially

Further descriptions of the above requirements are provided in detail in the latter sections of this Site Management Plan.

1.0 INTRODUCTION

1.1 General

The former Signore Manufacturing property ("Signore Property"), consists of two parcels of land (SBL numbers 55.043-1-3.1, 55.002-2-3) located at 55-57 Jefferson Street, Village of Ellicottville, New York. This parcels of land include the former Signore manufacturing facility which was located on the eastern 13.65 acres of the Signore Property, between Plum Creek and Jefferson Street. This 13.65 acres of the Signore Property was designated as a New York State Superfund (SSF) Site (Site # 905023) and addressed via a consent order in 1989. Under the SSF program a remedial investigation and remedial measures were implemented for on-site and off-site groundwater usage.

In January of 2011, 8.43 acres of the SSF Site was entered into the New York State Brownfield Cleanup Program (BCP) for the remediation of on-site soil and groundwater. The BCP Site was named "Former Signore, Inc." Site and assigned Site No. C905034. **Figure 1** is a map that illustrates the location and mapped boundaries of the overall Signore Property, the 13.65-acre SSF portion, and the 8.43-acre BCP portion. This Site Management Plan (SMP) was initially approved by NYSDEC in October of 2015, as a required element of the BCP, and originally pertained only to the 8.43-acre BCP Site. This 2023 amendment of the SMP affects four primary parts of the original SMP as follows:

- The frequency of sampling and parameters analyzed relative to the post-injection groundwater monitoring wells at the BCP Site;
- The frequency of sampling analyzed relative to the ROD required groundwater monitoring wells;
- Extension of the area on which SVI evaluation is required to the SSF Site.
- Extension of groundwater use restrictions on the SSF Site.
- Extension of the area on which property-use restrictions (restricted residential, commercial, and industrial use) are required for the SSF Site.

Iskalo Ellicottville Holdings LLC entered into a Brownfield Cleanup Agreement (BCA) in January 2011 with the NYSDEC to remediate the BCP Site. A figure showing the BCP and SSF Site locations and boundaries of the Sites are provided in Figures 1 and 2. The boundary of the 13.65 acre SSF Site is more fully described in the metes and bounds Site description that is part of the Environmental Easement provided in Appendix A.

After completion of the remedial work, some contamination was left at the Site (Table 2) which is hereafter referred to as "remaining contamination". Institutional Controls and Engineering Controls (ICs and ECs) have been incorporated into the Site remedy to control exposure to remaining contamination to ensure protection of public health and the environment. An Environmental Easement granted to the NYSDEC, and recorded with the Cattaraugus County Clerk, requires compliance with this SMP and all ECs and ICs placed on the Site. Both the Environmental Easement and this SMP contain requirements and property use restrictions that apply to the entire 13.65-acre SSF Site, including but not limited to the 8.43-acre BCP Site located within the SSF Site boundaries.

This SMP was prepared to manage remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. This plan has been approved by the NYSDEC, and compliance with this plan by the grantor of the Environmental Easement and the grantor's successors and assigns is required with respect to the entire 13.65-acre SSF Site, including but not limited to the 8.43-acre BCP Site located within the SSF Site boundaries. This SMP may only be revised with the approval of the NYSDEC.

It is important to note that:

- This SMP details the Site-specific implementation procedures that are required by the Environmental Easement. Failure to properly implement the SMP is a violation of the Environmental Easement, which is grounds for revocation of the Certificate of Completion (COC);

Failure to comply with this SMP is also a violation of the Environmental Conservation Law, 6NYCRR Part 375, the BCA and/or COC for BCP Site #C905034, and/or the consent order for SSF Site 905023, and thereby subject to applicable penalties.

All reports associated with the Site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State. A list of contacts for persons involved with the Site is provided in Appendix B of this SMP.

This SMP was prepared by GZA GeoEnvironmental of New York, on behalf of Iskalo Ellicottville Holdings LLC, in accordance with the requirements of the NYSDEC's DER-10 ("Technical Guidance for Site Investigation and Remediation"), dated May 2010, and the guidelines provided by the NYSDEC. This SMP addresses the means for implementing the ICs and/or ECs required by the Environmental Easement for the SSF and BCP Sites.

1.2 Revisions

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements, upgrades to or shut-down of a remedial system, post-remedial removal of contaminated sediment or soil, or other significant change to the Site conditions. In accordance with the Environmental Easement for the Site, the NYSDEC will provide a notice of any approved changes to the SMP and append these notices to the SMP that is retained in its files.

1.3 Notifications

Notifications will be submitted by the property owner to the NYSDEC and NYSDOH (potential SVI exposure and CAMP issues), as needed, in accordance with NYSDEC's DER – 10 for the following reasons:

- 48-hour notice of any non-routine maintenance activities.
- 60-day advance notice of any proposed changes in Site use that are required under the terms of the BCA, 6NYCRR Part 375 and/or Environmental Conservation Law.
- 7-day advance notice of any field activity associated with the remedial program.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan.
- Notice within 48 hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the Site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party has been provided with a copy of the Brownfield Cleanup Agreement (BCA) and all approved work plans and reports, including this SMP.

- Within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

Table 1 on the following page includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of Site-related contact information is provided in Appendix B.

Table 1: Notifications*

Name	Contact Information
NYSDEC Project Manager Megan Kuczka	phone: (716) 851-7200 email: megan.kuczka@dec.ny.gov
NYSDOH Project Manager Angela Martin	Phone: (518) 402-7860 email: angela.martin@health.ny.gov
NYSDEC Regional HW Engineer	phone: (716) 851-7220
NYSDEC Site Control	phone: (518) 402-9553 email: derweb@dec.ny.gov

* Note: Notifications are subject to change and will be updated as necessary.

2.0 SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS

2.1 Site Location and Description

The Site is located in the Village of Ellicottville, Cattaraugus County, New York and is part of the larger 53.73-acre property (tax parcels 55.043-1-3.1 and 55.002-2-3 on the Cattaraugus Tax Map, see Figure 2 – Site Layout Map) and locally referred to as the "Signore Property". The Signore Property consists of "flatland" areas east of Plum Creek (approximately 13.65 acres) and approximately 40.08 acres of wooded hillside west of Plum Creek. The flatland portion of the Signore Property is comprised of the BCP and SSF Sites, has frontage along Jefferson Street (NYS 219), and is east of Plum Creek. The western portion of the Signore property consists of wooded hillsides and wetland (off the SSF and BCP sites). The BCP Site (Site number C905034) is an approximate 8.43-acre area and, like the 13.65-acre SSF Site, is situated most proximate to Jefferson Street Residences are located to the southeast and west of the Signore Property with a cemetery and additional residences located across Jefferson Street. (see Figure 2 – Site Layout Map). The boundaries of the Site are more fully described in Appendix A – Environmental Easement. The owner(s) of the Site parcel(s) at the time of this SMP revision is Iskalo Ellicottville Holdings LLC.

2.2 Physical Setting

2.2.1 Land Use

Improvements remaining on the Site include an approximate 168,000 square-foot concrete pad/foundation (former main Site building demolished in July and August 2012), three small ancillary steel buildings, and gravel parking areas/driveways. The majority of the "flatland" portion of the Signore Property that includes the BCP Site and SSF Site is zoned "Medium Density Residential" with a smaller portion zoned "Industrial". The wooded hillside portion of the Signore Property is zoned "Conservation". The Signore property is not presently in use. Plum Creek, a tributary to Great Valley Creek, flows into the larger Signore property from the north and continues through the central portion of the larger Signore property, bifurcating the "flatland" portion of the parcel from the wooded hillside portion Plum Creek forms the western and southern boundary of the SSF Site and the BCP Site and flows south/southeasterly off the southeast portion of the Site toward Great Valley Creek.

The land uses adjoining the Signore Property and in the surrounding neighborhood include recreational, commercial, community facilities (*i.e.,* cemetery) and residential . Specifically, the land uses immediately south of the Signore Property include vacant land and residential with recreational uses beyond; land uses immediately north of the Signore Property consist of commercial and residential; land uses immediately east of the Signore Property consist of community facilities (*i.e.* cemetery), commercial, and residential; and the land uses to the west of the Signore Property (which is hillside) consist of unimproved land and residential.

2.2.2 Geology

The topography and geology in the area were drastically altered by glaciation. Rivers in the area, prior to the Pleistocene aged glacial period, flowed north towards Lake Erie and the St. Lawrence River. Southern glacial advancement was halted near Salamanca, located approximately nine miles south of Ellicottville, by the north flowing Allegheny River. The glacial advancement and eventual glacial melt waters altered the river flow patterns to the south as they exist today. This area of the Signore Property consists of glacial outwash from the melting glaciers that were deposited in the surrounding valleys. On top of the glacial outwash are river derived alluvial deposits, from rivers and streams flowing along or into the valleys. Below the glacial outwash deposits is Devonian aged bedrock (350 million years old) at approximately 90 feet below ground surface.

Approximately one to two feet of fill is present on the flatlands portion of the Signore Property where the manufacturing operation was located. This fill generally consists of subbase stone and sand/gravel mixtures. The native overburden consists of three stratigraphic units; an upper alluvial deposit (10 to 30 feet thick and consists of sandy silt with some clay and gravel), middle outwash deposits (20 to 50 feet thick and consists of fine to coarse sand and gravel with a little silt) and a lower variable unit consisting of outwash, glacial till and lake deposits.

Site specific boring logs are provided in Appendix C.

2.2.3 Hydrogeology

Groundwater measurements were taken throughout Site investigation and remedial activities. Groundwater flow directions measured during monitoring events conducted from 2009 through 2021 show a southeasterly flow direction similar to the flow direction of Great Valley Creek. Groundwater levels in the 11 ROD wells ranged from 9.07 feet bgs to 23.98 feet bgs in September 2021 (Table 3). Groundwater flow direction has repeatedly been determined to be in a southeasterly direction, similar to the regional flow direction. Properties in the vicinity of the SSF Site and BCP Site are provided water from the municipality. The Ellicottville Town Well is sampled biennially and is located approximately 3,400 feet southeast of the BCP Site. A representative groundwater contour map is provided as Figure 4. Representative groundwater elevation data is provided in Table 3. Groundwater monitoring well construction logs are provided in Appendix C.

2.3 Investigation and Remedial History

The following narrative provides a remedial history timeline and a brief summary of the available project records to document key investigative and remedial milestones for the Site. Full titles for reports referenced below are provided in Section 7.0 - References.

Prior to closing of the Signore manufacturing facility in 2007, the Site (*i.e.,* combined SSF and BCP Sites) had been used for manufacturing purposes for over 50 years. It was reported that a tool and die operation occupied a garage associated with the residential dwelling that was formerly present on the property. Signore manufactured metal products including file cabinets, lockers, desks, and computer furniture. The Signore building, which was demolished in 2012, had undergone various expansions since 1952. The date of construction of the original manufacturing building located on the property is unknown but occurred sometime between the 1940s and 1952 as the property was identified as vacant woodland between 1922 and 1939.

The property was occupied by Signore until May 2007, when operations ceased. The main building was demolished by Iskalo in July and August 2012. The small ancillary buildings and the main building concrete-slab remain.

REMEDIAL INVESTIGATION ASSOCIATED WITH INITIATING IRMS

- Phase I Environmental Site Assessment – November 2007 – Lender Consulting Services
- Phase II Environmental Site Assessment – December 2007 – GZA

During the Phase II activities, significant VOC contamination and separate phase petroleum product (SPPP) impacted the soil and groundwater on the Subject property. Three areas of concern (AOC) were identified where the soil contaminant concentrations were greater than the NYSDEC Part 375 criteria.

1. AOC-1 – Petroleum underground storage tank (UST) Area – Three 1,000-gallon USTs, located on the eastern portion of the flat land portion of the Subject Property, SPP product and petroleum petroleum-impacted soil was identified during test pit completion.

2. AOC-2 – One 1,000-gallon UST Area – The historic contents of an UST identified on the southwest side of the main building are unknown. SPPP was identified during the test pit completed in this area.

3. AOC-3 – Paint Kitchen Area – VOC impacted soil was identified in the area within the main building identified as the paint kitchen and spray booth area. Additionally, a former septic system was also present in the area. "Product" was identified during the soil probe investigation.

In addition to the three identified AOCs, impacted subsurface soil and groundwater was detected at a location south of a floor drain that contained sludge. Groundwater impacts from the identified VOCs in AOC-1, -2 and -3 appeared to be present at the Subject Property at approximately 10 to 12 feet below ground surface (bgs). The detected compounds in AOC-2 and AOC-3 included toluene, ethylbenzene, TMBs, and xylenes.

PREVIOUS INTERIM REMEDIAL MEASURES – STATE SUPERFUND PROGRAM

In August 1989, Signore entered into an Administrative Order of Consent (#89-258-89-03) to perform a Remedial Investigation/Feasibility Study, under the SSF program, at the property and three Interim Remedial Measures (IRMs). The three IRMs included the following:

- Installation of an interceptor well upgradient of the Town drinking water well;
- Connection of 34 residential properties to the municipal water supply source; and
- Installation of an interceptor well on the downgradient portion of the Signore Property.

The above referenced IRM activities were completed by others and put into operation by January 1992. We note that, based on the Phase II ESA completed in December 2007 and the presence of USTs on the property, additional IRM activities were completed under the BCP as reported in the FER in 2011 and 2013.

BCP INTERIM REMEDIAL MEASURES

IRM activities conducted in 2011 under the BCP included the removal of six USTs and related petroleum petroleum-impacted soil. IRM activities in 2013 included the removal of two closed in-place septic tanks and impacted soils located in the vicinity of AOC-2 and AOC-3; and the completion of a pilot test to assess the viability of chlorinated volatile organic compound (cVOC) groundwater contamination treatment. Another septic tank was encountered and removed in 2013 during the remediation of AOC-3.

ELECTRON DONOR INJECTIONS

The groundwater data from the Site Remedial Investigation (SRI), indicated the cVOC plume (*i.e.* cVOC concentrations greater than 200 ppb) may have originated in the vicinity of the former septic tanks in the central portion of the BCP Site. Prior to implementing a full-scale in-situ groundwater treatment program, a pilot test was initiated in September 2013 to assess the effectiveness of the remedial alternative and collect pre-design data.

The pilot test consisted of the injection of approximately 1,775 pounds of EDC material in the vicinity of SP-3 and the 200 ppb concentration isopleth, 500 pounds of EDC in the vicinity of 100 ppb isopleth near SP-32, and monitoring the groundwater conditions in the areas of the injections. The EDC material was composed of food-grade vegetable oils and surfactants. The EDC material was mixed into slurry and injected into the subsurface groundwater.

Based on the results of the pilot study, GZA recommended implementing a full-scale injection program to enhance and accelerate natural attenuation of cVOCs at the BCP Site. The full-scale in-situ groundwater treatment involved injecting an organic carbon (OC) electron donor material into the cVOC-impacted groundwater via direct-push technology. Natural attenuation could then further reduce the concentrations at downgradient locations. As degradation of the remaining source of cVOCs would be enhanced by the in-situ treatment, this should help achieve the groundwater SCOs more quickly. The full-scale in-situ groundwater treatment was conducted in July 2015 (**Figure 9**).

In the Remedial Work Plan, impacted groundwater at the BCP Site was treated in-situ to enhance the reductive dechlorination process by replacement of chlorine with elemental hydrogen, in the presence of an electron donor. The electron donor enhances the anaerobic breakdown of parent cVOCs present at the BCP Site to daughter breakdown products which continue to degrade anaerobically or aerobically. GZA implemented the in-situ groundwater remedial program by injecting an organic carbon additive mixture of lactose, brewer's yeast, sodium bicarbonate and trace nutrients. Approximately 7,000 pounds of the mixture was mixed with 5,000 gallons of water to produce an injectable slurry. This slurry was injected into the subsurface using direct-push soil probes as specified in the RWP. Pre- and post-injection groundwater sampling was performed per the RWP (July 2015). Further details of the remedial injection program were reported in the Final Engineering Report (FER) prepared by GZA dated October 2015. Required groundwater monitoring at the Site in further detailed in Section 4.3.1.

Two outdoor soil gas sampling points (designated as SG-1 and SG-2) were installed north of the BCP Site boundary (northern portion of the SSF) at the locations depicted on **Figure 10** in June 2016. None of the VOCs detected in the soil gas samples were present at concentrations above the USEPA Target Exterior Soil Gas Concentrations.

Soil vapor intrusion (SVI) sampling was completed at five upgradient off-site locations (north of the Signore BCP Site) and four downgradient off-site locations (south of the Signore BCP Site) during the heating season from January 2012 through April 2012. The purpose of this vapor intrusion air sampling was to assess off-site residential dwellings along Jefferson Street for potential soil vapor intrusion, due to the detections of chlorinated solvents in groundwater at the Site. According to NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006, with updates), results of the sampling indicate that No Further Action is required at these locations.

2.4 Remedial Action Objectives

The Remedial Action Objectives for the SSF as listed in the Record of Decision (ROD) dated January 1992 were as follows:

- Provide water meeting State drinking water standards to residences with domestic wells between Signore and Town Well.
- Reduce VOC contaminants in Town Well below appropriate levels and prevent VOC contaminants from moving downgradient beyond Town Well.

- Restore aquifer between Signore and Town Well by reducing VOC contaminants be1ow appropriate State levels.
- Restore aquifer beneath Signore by reducing VOC contaminants below appropriate State 1evels.

The Remedial Action Objectives (RAOs) for the BCP Site as listed in the RWP and Decision Document dated July 24, 2015 were as follows:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater. RAOs pertaining to vapor mitigation are discussed later in this section.

RAOs for Environmental Protection

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.
- Prevent the discharge of contaminants to surface water.
- Remove the source of ground or surface water contamination. Soils exceeding PGWSCOs were remediated during the IRM activities conducted in 2011 and 2013.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil; and
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil. RAOs pertaining to soil vapor mitigation are discussed later in this section.

RAOs for Environmental Protection

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

Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site (combined approximate 13.65 acre SSF and BCP Sites).

2.5 Remaining Contamination

2.5.1 Soil

Table 2 and Figure 5 summarize the results of the limited soil samples collected that exceed the Unrestricted, Residential, and Commercial Use SCOs following completion of remediation. As discussed previously in this SMP, impacted soil of concern was removed from the BCP Site. The only known remaining soil with a contaminant present above commercial and/or restricted residential SCOs is arsenic at 3 locations. The arsenic concentrations slightly exceed the commercial SCO at two of these locations (reported concentrations of 16.9 and 20 mg/kg, Table 2) and slightly above the unrestricted SCO at the third location (reported concentration of 14.6 mg/kg, Table 2). Arsenic is a naturally occurring element and often naturally present in soil and rock at such concentrations.

2.5.2 Groundwater

Tables 8, 9, and 14 and Figure 8 summarize the results of samples of groundwater that exceed the SCGs after completion of the IRM remedial action. The remedial groundwater injections were completed in July of 2015 and post remedial groundwater monitoring data is presented in the semi-annual groundwater monitoring reports subsequent to the July 2015 ground water remediation until July 2017 at which time annual sampling began with approval from NYSDEC. Post remedial injection groundwater sampling was conducted annually in 2017, 2018, 2019, 2021, and 2022. The analytical results of the groundwater sampling provide data (Table 18) for documentation of concentrations of cVOCs present in the on-Site groundwater. The body of data collected since remedial injections indicates reductive dichlorination has effectively decreased groundwater cVOC concentrations as intended; and that a slow and steady overall trend of cVOC reduction has been established. However, recent data indicates Site groundwater has returned to an oxidizing environment characteristic of that prior to treatment. Additionally, PCE and TCE concentrations in monitoring well SP-45 have increased over the last two annual sampling events.

The analytical results provide data for documentation of concentrations of cVOCs present in the on-Site groundwater. Groundwater cVOC concentrations measured at 86 months post-Organic Carbon Electron Donor Substrate (OCEDS) injection (September 2022) indicate the groundwater in the sampled monitoring wells/treatment area has returned to pre-treatment oxidizing conditions. While natural attenuation can occur in these conditions, it is most effective at low concentrations and for compounds having relatively few chlorines. Biotic degradation of the more chlorinated compounds, including PCE and TCE, is very slow and particularly ineffective at higher concentrations. In situations where reductive dechlorination has removed the parent compounds PCE and TCE, a change to oxidizing conditions can be beneficial for remediation of the daughter products cis-1,2-dichloroethene (DCE) and vinyl chloride (VC). However, if undissolved PCE and TCE remain, oxidative degradation may not be able to keep pace with their rate of dissolution.

One important exception to the trend of returning to an oxidizing environment is noted: results from the downgradient well EW-1.25R show that reductive dichlorination is continuing to keep cVOC concentrations low. This well is located proximate to the southern BCP Site boundary. Monitoring will continue to document the dechlorination process in accordance with this SMP.

2.5.3 Soil Vapor

Sources of VOCs of concern have been removed from the BCP Site and no occupied structures are present on Site at the time of the writing of this SMP amendment. An SVI investigation was completed at 5 hydraulically upgradient and 4 hydraulically downgradient locations from the BCP Site (**Table 15**). According to NYSDOH Guidance, results of the sampling indicate that No Further Action is required at these locations.

Two outdoor soil gas sampling points (designated as SG-1 and SG-2) were installed north of the BCP Site boundary (northern portion of the SSF) at the locations depicted on **Figure 10** in June 2016. Analytical testing results are summarized below. None of the VOCs detected in the soil gas samples were present at concentrations above the USEPA Target Exterior Soil Gas Concentrations for residential exposure. Additionally, the chlorinated solvents detected (tetrachloroethene and trichloroethene) in exterior soil gas were at concentrations warranting no further action compared to the corresponding target NYSDOH sub-slab vapor concentrations.

Parameter	*EXTERIOR SOIL GAS*		
	Target Exterior Soil Gas Concentration - Residential	SG-1	SG-2
Volatile Organic Compounds - EPA Method TO-15 (µg/m³)			
1,2,4-Trimethylbenzene	**2.4E+02**	44	1.4
1,3,5-Trimethylbenzene	**NV**	14	2.5
Acetone	**1.1E+06**	120	43
Benzene	**1.2E+01**	1.1	0.86
Bromodichloromethane	**2.5E+00**	0.94 J	0.67 J
Carbon disulfide	**2.4E+04**	3.3	2.4
Chloroform	**4.1E+00**	1.5	1.2
4-ethyltoluene	**NV**	9.1	ND
Ethyl acetate	**2.4E+03**	ND	0.83 J
Ethylbenzene	**3.7E+01**	2.8	1.3
Freon 11	**NV**	1.0	1.2
Freon 113	**1.0E+06**	0.84 J	ND
Freon 12	**3.5E+03**	1.8	2.0
m&p-Xylene	**3.5E+03**	11	2.0
Methyl Ethyl Ketone	**1.7E+05**	21	5.0
Methyl Isobutyl Ketone	**1.0E+05**	ND	2.9
Methylene chloride	**3.4E+03**	1.6	0.90
o-Xylene	**3.5E+03**	8.6	2.3
Tetrahydrofuran	**7.0E+04**	2.0	2.0
Tetrachloroethylene	**3.6E+02**	4.8	71
Toluene	**1.7E+05**	4.8	3.1
Trichloroethene	**1.6E+01**	ND	0.70 J

For the Site (*i.e.,* combined BCP and the SSF Sites), any new buildings constructed on-site and any of the existing ancillary buildings which become occupied (*i.e.,* structures not used exclusively for storage) will be evaluated for the potential for soil vapor intrusion, by a qualified environmental professional in accordance with the NYSDOH's "Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York," dated October 2006 (and subsequent updates). This evaluation will occur prior to a building becoming occupied. A copy of this reference document is included as Appendix I. If the results of a soil vapor intrusion assessment indicate that further action is warranted in accordance with the NYSDOH guidance, actions will be taken to address exposures related to soil vapor intrusion. Alternatively, the Site owner may elect to install an active vapor mitigation system on any new construction or existing building which becomes occupied. Change of Use

documentation will be provided to NYSDEC and NYSDOH for any redevelopment or new buildings constructed at the Site.

New buildings constructed on the Site will include vapor barriers and subsurface piping for passive SSD systems. The effectiveness of any passive or active vapor mitigation system or vapor barrier installed will need to be evaluated. Subslab depressurization systems (SSDSs), where installed, will be operated and monitored until such time the NYSDOH approves a request to diminish or eliminate the requirement to do so.

3.0 INSTITUTIONAL AND ENGINEERING CONTROL PLAN

3.1 General

Since remaining contamination exists at the BCP Site, Institutional Controls (ICs) and Engineering Controls (ECs) are required to protect human health and the environment. This IC/EC Plan describes the procedures for the implementation and management of all IC/ECs at the Site. An EWP is not required on the northern/off BCP Site portions of the SSF. The IC/EC Plan is one component of the SMP and is subject to revision by the NYSDEC.

This plan provides:

- A description of all IC/ECs on the Site;
- The basic implementation and intended role of each IC/EC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the controls to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of IC/ECs, such as the implementation of the Excavation Work Plan (EWP) (as provided in **Appendix D**) for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the BCP Site; and
- Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the Site remedy, as determined by the NYSDEC.

3.2 Institutional Controls

A series of ICs is required by the BCP Site Decision Document to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and, (3) limit the use and development of the Site to restricted residential, commercial, and industrial uses only. Adherence to these ICs on the Site is required by the Environmental Easement and will be implemented under this SMP. ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The IC boundaries are shown on the survey map (Figure D14-832) attached with the EE (within Appendix A). These ICs are:

- The BCP Site and SSF Site (i.e. the Site) may be used for: Restricted residential, Commercial, and Industrial use;
- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the Site is prohibited without necessary water quality treatment as determined by the NYSDOH or the Cattaraugus 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.
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP
- Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in this SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;
- 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 the Environmental Easement;
- Vegetable gardens and farming on the Site are prohibited.
- The potential for vapor intrusion must be evaluated for any existing buildings or buildings to be constructed on the Site (*i.e.,* combined SSF and BCP Sites), and any potential impacts identified must be monitored or mitigated.
- An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible.

3.3 Engineering Controls

3.3.1 Sub-Slab Depressurization (SSD) System

Known sources of VOCs of concern have been removed from the Site and no occupied structures are present. An SVI investigation was completed at 5 hydraulically upgradient and 4 hydraulically downgradient locations from the BCP Site. According the NYSDOH Guidance, results of the sampling indicate that No Further Action is required at these locations.

However, vapor intrusion will be evaluated on occupied existing or new buildings on the BCP Site and those on the SSF Site and mitigation systems, if installed, (*i.e.,* SSDSs) will be operated and monitored until such time the NYSDOH approves a request to diminish or eliminate the requirement to do so. An SSDS will not be discontinued unless prior written approval is granted by the NYSDEC and the NYSDOH. In the event that monitoring data indicates the SSDS may no longer be required, a proposal to discontinue the SSDS will be submitted by the remedial party to the NYSDEC and NYSDOH.

3.3.2 Monitoring Wells Associated with Monitored Natural Attenuation

Groundwater monitoring activities to assess natural attenuation on the BCP Site will continue, as determined by the NYSDEC in consultation with NYSDOH, until residual groundwater concentrations are found to be consistently below ambient water quality standards/SCGs, or have become asymptotic at an acceptable level over an extended period. In the event data indicates monitoring for natural attenuation may no longer be required, a proposal to discontinue operation of the SSDS will be submitted by the remedial party. Monitoring will continue until permission to discontinue is granted in writing by the NYSDEC. If groundwater contaminant levels become asymptotic at a level that is not acceptable to the NYSDEC, additional treatment and/or control measures will be evaluated.

4.0 MONITORING AND SAMPLING PLAN

4.1 General

This Monitoring and Sampling Plan describes the measures for evaluating the overall performance and effectiveness of the remedy. This Monitoring and Sampling Plan may only be revised with the approval of the NYSDEC. Details regarding the sampling procedures, data quality usability objectives, analytical methods, etc. for all samples collected as part of management for the Site are included in the Quality Assurance Project Plan provided in Appendix G.

This Monitoring and Sampling Plan describes the methods to be used for:

- Sampling and analysis of all appropriate media (*e.g.,* groundwater, indoor air, soil vapor, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance (SCGs), particularly groundwater standards and Part 375 SCOs for soil; and
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment;

To adequately address these issues, this Monitoring and Sampling Plan provides information on:

- Sampling locations, protocol and frequency;
- Analytical sampling program requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and
- Annual inspection and periodic certification.

Reporting requirements are provided in Section 6.0 of this SMP.

4.2 Site – Wide Inspection

Site-wide inspections will be performed at a minimum of once per year. These periodic inspections must be conducted when the ground surface is visible (i.e. no snow cover). Site-wide inspections will be performed by a qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State.. Modification to the frequency or duration of the inspections will require approval from the NYSDEC project manager. Site-wide inspections will also be performed after all severe weather conditions that may affect ECs or monitoring devices. During these inspections, an inspection form will be completed as provided in Appendix H – Site Management Forms. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including Site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General Site conditions at the time of the inspection;
- Whether stormwater management systems, such as basins and outfalls, are working as designed;
- The Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection; and
- Confirm that Site records are up to date.

Inspections of all remedial components installed at the Site (and vapor mitigation systems at the SSF Site, if installed and required) will be conducted. A comprehensive Site-wide inspection will be conducted and documented according to the SMP schedule, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether ECs continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria; and

- If Site records are complete and up to date.

Reporting requirements are outlined in Section 6.0 of this plan.

Inspections will also be performed in the event of an emergency. If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs that reduces or has the potential to reduce the effectiveness of ECs in place at the site, verbal notice to the NYSDEC project manager must be given by noon of the following day. In addition, an inspection of the site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the site by a qualified environmental professional, as defined in 6 NYCCR Part 375. Written confirmation must be provided to the NYSDEC project manager within 7 days of the event that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public. The remedial party will submit follow-up status reports to the NYSDEC within 45 days of the event on actions taken to respond to any emergency event requiring ongoing responsive action, describing and documenting actions taken to restore the effectiveness of the ECs.

4.3 Post-Remediation Media Monitoring and Sampling

Groundwater samples shall be collected from Site wells on a routine basis (Figure 4). Sampling locations, required analytical parameters, and schedule are provided in Table 16 below.

Semi-annual groundwater sampling for VOCs was conducted from April 2009 to July 2017 in accordance with ROD and/or BCP decision document. Required wells were sampled annually in June 2018, June 2019, and September 2021. Sampling for VOCs will continue at the ROD wells biennially.

Remedial post-injection sampling for VOCs and monitored natural attenuation (MNA) parameters (iron, manganese, ethane, ethene, Total Organic Carbon (TOC), chloride, nitrate, nitrite and sulfate) was originally performed semi-annually from October 2015 until October 2016, annually in July 2017, June 2018, June 2019, and September 2021. MNA parameters were no longer required as of November 2022 per NYSDEC. Post-injection sampling for VOCs will continue at the BCP site annually.

Modification to the frequency or sampling requirements will require approval from the NYSDEC.

Table 16 – Groundwater Monitoring Requirements and Schedule

Annually Sampled Post-Injection BCP Wells (7)	**Biennially Sampled SSF Wells ROD Required (12)**	**Sample Analyses**
On Site Wells		**VOCs (8260C)**
EW-1.25R*	EW-1.25R*	X
SP-32	EW-1.5	X
SP-37	EW-2.5	X
SP-38	MW-1I	X
SP-43	MW-4S	X
SP-45	MW-5S	X
TP-11	MW-9I	X
	MW-2I	X
Off Site Wells		
	EW-4.5	X
	IRM-1	X
	IRM-2I	X
	Town Well	X

Detailed sample collection and analytical procedures and protocols are provided in Appendix E – Field Sampling Plan and Appendix F – Quality Assurance Project Plan.

* - EW-1.25R is included in both monitoring programs.

4.3.1 Groundwater Sampling

Groundwater monitoring will be performed annually for the seven BCP Site Post-Injection monitoring wells and biennially for the 12 SSF Site wells to assess the performance of the remedy. Note that well EW-1.25R is included in both monitoring programs. Modification to the frequency or sampling requirements will require approval from the NYSDEC.

The network of monitoring wells has been installed to monitor upgradient, on-site and downgradient groundwater conditions.

Monitoring well construction logs are included in Appendix C of this document.

If biofouling or silt accumulation occurs in the on-site and/or off-site monitoring wells, the wells will be physically agitated/surged and redeveloped. Additionally, monitoring wells will be properly decommissioned and replaced if an event renders the wells unusable.

Repairs and/or replacement of wells in the monitoring well network will be performed based on assessments of structural integrity and overall performance.

The NYSDEC will be notified prior to any repair or decommissioning of any monitoring well for the purpose of replacement, and the repair or decommissioning and replacement process will be documented in the subsequent Periodic Review Report. Well decommissioning without replacement will be done only with the prior approval of the NYSDEC. Well abandonment will be performed in accordance with NYSDEC's guidance entitled "CP-43: Groundwater Monitoring Well Decommissioning Procedures." Monitoring wells that are decommissioned because they have been rendered unusable will be replaced in kind in the nearest available location, unless otherwise approved by the NYSDEC.

The sampling frequency may only be modified with the approval of the NYSDEC. This SMP will be modified to reflect changes in sampling plans approved by the NYSDEC.

Deliverables for the groundwater monitoring program are specified in Section 6.0 – Reporting Requirements.

4.3.2 Monitoring and Sampling Protocol

All sampling activities will be recorded in a field book and associated sampling log as provided in Appendix H - Site Management Forms. Other observations (*e.g.,* groundwater monitoring well integrity, *etc.*) will be noted on the sampling log. The sampling log will serve as the inspection form for the monitoring network. Additional detail regarding monitoring and sampling protocols are provided in the Site-specific Field Activities Plan provided as Appendix E of this document.

5.0 OPERATION AND MAINTENANCE PLAN

5.1 General

The Site remedy does not currently rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems or air sparge/soil vapor extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP. If, in the future, SSDSs are installed in occupied structures located within the BCP or SSF Sites, then an O&M Plan will be included in this SMP.

6.0. REPORTING REQUIREMENTS

6.1 Site Management Reports

All Site management inspection, maintenance and monitoring events will be recorded on the appropriate Site management forms provided in Appendix H. These forms are subject to NYSDEC revision. All site management inspection, maintenance, and monitoring events will be conducted by a qualified environmental professional as defined in 6 NYCRR Part 375, a PE who is licensed and registered in New York State, or a qualified person who directly reports to a PE who is licensed and registered in New York State.

All applicable inspection forms and other records, including media sampling data and system maintenance reports, generated for the Site during the reporting period will be provided in electronic format to the NYSDEC in accordance with the requirements of Table 6-1 below and summarized in the Periodic Review Report. PRRs will be submitted triennially, ROD groundwater monitoring reports will be submitted biennially, and BCP post-injection groundwater monitoring reports will be submitted annually.

Table 6-1: Schedule of Interim Monitoring/Inspection Reports

Task/Report	Reporting Frequency*
Periodic Review Report	Triennially, or as otherwise determined by the Department
ROD Groundwater Monitoring Report	Biennially, or as otherwise determined by the Department
BCP Post-Injection Groundwater Monitoring Report	Annually, or as otherwise determined by the Department

* The frequency of events will be conducted as specified until otherwise approved by the NYSDEC. ROD Groundwater Report and the BCP Post-Injection Groundwater Monitoring Report will be submitted 30 days after laboratory data is received.

All interim monitoring/inspections reports will include, at a minimum:

- Date of event or reporting period;
- Name, company, and position of person(s) conducting monitoring/inspection activities;

- Description of the activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet);
- Type of samples collected (e.g., sub-slab vapor, indoor air, outdoor air, *etc*.);
- Copies of all field forms completed (e.g., well sampling logs, chain-of-custody documentation, etc.);
- Sampling results in comparison to appropriate standards/criteria;
- A figure illustrating sample type and sampling locations;
- Copies of all laboratory data sheets and the required laboratory data deliverables required for all points sampled (to be submitted electronically in the NYSDEC-identified format);
- Any observations, conclusions, or recommendations; and
- A determination as to whether contaminant conditions have changed since the last reporting event.

Routine maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting maintenance activities;
- Description of maintenance activities performed;
- Any modifications to the system;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet); and
- Other documentation such as copies of invoices for maintenance work, receipts for replacement equipment, etc., (attached to the checklist/form).

Non-routine maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting non-routine maintenance/repair activities;
- Description of non-routine activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet); and

- Other documentation such as copies of invoices for repair work, receipts for replacement equipment, etc. (attached to the checklist/form).

Data will be reported in digital format as determined by the NYSDEC. Currently, data is to be supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link http://www.dec.ny.gov/chemical/62440.html.

6.2 Periodic Review Report

Periodic Review Reports were submitted annually until 2021. A Periodic Review Report (PRR) will be submitted to the NYSDEC project manager triennially or at another frequency as may be required by the Department. In the event that the site is subdivided into separate parcels with different ownership, a single Periodic Review Report will be prepared that addresses the site described in Appendix A -Environmental Easement. The report will be prepared in accordance with NYSDEC's DER-10 and submitted within 30 days of the end of each certification period. Media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the site.
- Results of the required annual site inspections, fire inspections and severe condition inspections, if applicable.
- All applicable site management forms and other records generated for the site during the reporting period in the NYSDEC-approved electronic format, if not previously submitted.
- Identification of any wastes generated during the reporting period, along with waste characterization data, manifests, and disposal documentation.
- A summary of any discharge monitoring data and/or information generated during the reporting period, with comments and conclusions.
- Data summary tables and graphical representations of contaminants of concern by media (groundwater, soil vapor, etc.), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted. These tables and figures will include a presentation of past data as part of an evaluation of contaminant concentration trends, including but not limited to:
  - Trend monitoring graphs that present groundwater contaminant levels from before the start of the remedy implementation to the most current sampling data;
  - Trend monitoring graphs depicting system influent analytical data on a per event and cumulative basis;

- O&M data summary tables;
- A current plume map for sites with remaining groundwater contamination; and
- A groundwater elevation contour map for each gauging event.

- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted in digital format as determined by the NYSDEC. Currently, data is supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link: http://www.dec.ny.gov/chemical/62440.html.

- A site evaluation, which includes the following:
  - The compliance of the remedy with the requirements of the site-specific Remedial Action Work Plan (RAWP), ROD or Decision Document;
  - The operation and the effectiveness of all treatment units, etc., including identification of any needed repairs or modifications;
  - Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring and Sampling Plan for the media being monitored;
  - Recommendations regarding any necessary changes to the remedy and/or Monitoring and Sampling Plan;
  - An evaluation of trends in contaminant levels in the affected media to determine if the remedy continues to be effective in achieving remedial goals as specified by the RAWP, ROD or Decision Document; and
  - The overall performance and effectiveness of the remedy.

6.2.1 Certification of Institutional and Engineering Controls

Following the last inspection of the reporting period, a qualified environmental professional as defined in 6 NYCRR Part 375 or Professional Engineer licensed to practice and registered in New York State will prepare, and include in the Periodic Review Report, the following certification as per the requirements of NYSDEC DER-10:

"*For each institutional or engineering control identified for the Site, I certify that all of the following statements are true:*

- *The inspection of the Site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;*

- *The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;*

- *Nothing has occurred that would impair the ability of the control to protect the public health and environment;*

- *Nothing has occurred that would constitute a violation or failure to comply with any Site management plan for this control;*

- *Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;*

- *If a financial assurance mechanism is required under the oversight document for the Site, the mechanism remains valid and sufficient for the intended purpose under the document;*

- *Use of the Site is compliant with the environmental easement;*

- *The engineering control systems are performing as designed and are effective;*

- *To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the Site remedial program; and*

- *The information presented in this report is accurate and complete.*

I certify that the information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I _____, of _____, am certifying as [Owner/Remedial Party or Owner's/Remedial Party's Designated Site Representative] for the Site."

- *No new information has come to my attention, including groundwater monitoring data from wells located at the Site boundary, if any, to indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid; and*

- *The assumptions made in the qualitative exposure assessment remain valid.*

The signed certification will be included in the Periodic Review Report.

The Periodic Review Report will be submitted, in electronic format, to the NYSDEC Central Office, Regional Office in which the Site is located and the NYSDOH Bureau of Environmental Exposure Investigation. The Periodic Review Report may need to be submitted in hard-copy format, as requested by the NYSDEC project manager.

6.3 Corrective Measures Work Plan

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a Corrective Measures Work Plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Work Plan until it has been approved by the NYSDEC.

7.0 REFERENCES

6NYCRR Part 375, Environmental Remediation Programs. December 14, 2006.

NYSDEC DER-10 – "Technical Guidance for Site Investigation and Remediation".

NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1. June 1998 (April 2000 addendum).

Supplemental Remedial Investigation/Interim Remedial Measure/Alternative Analysis Report and Remedial Work Plan, Former Signore BCP Site, April 2015, GZA GeoEnvironmental of New York.

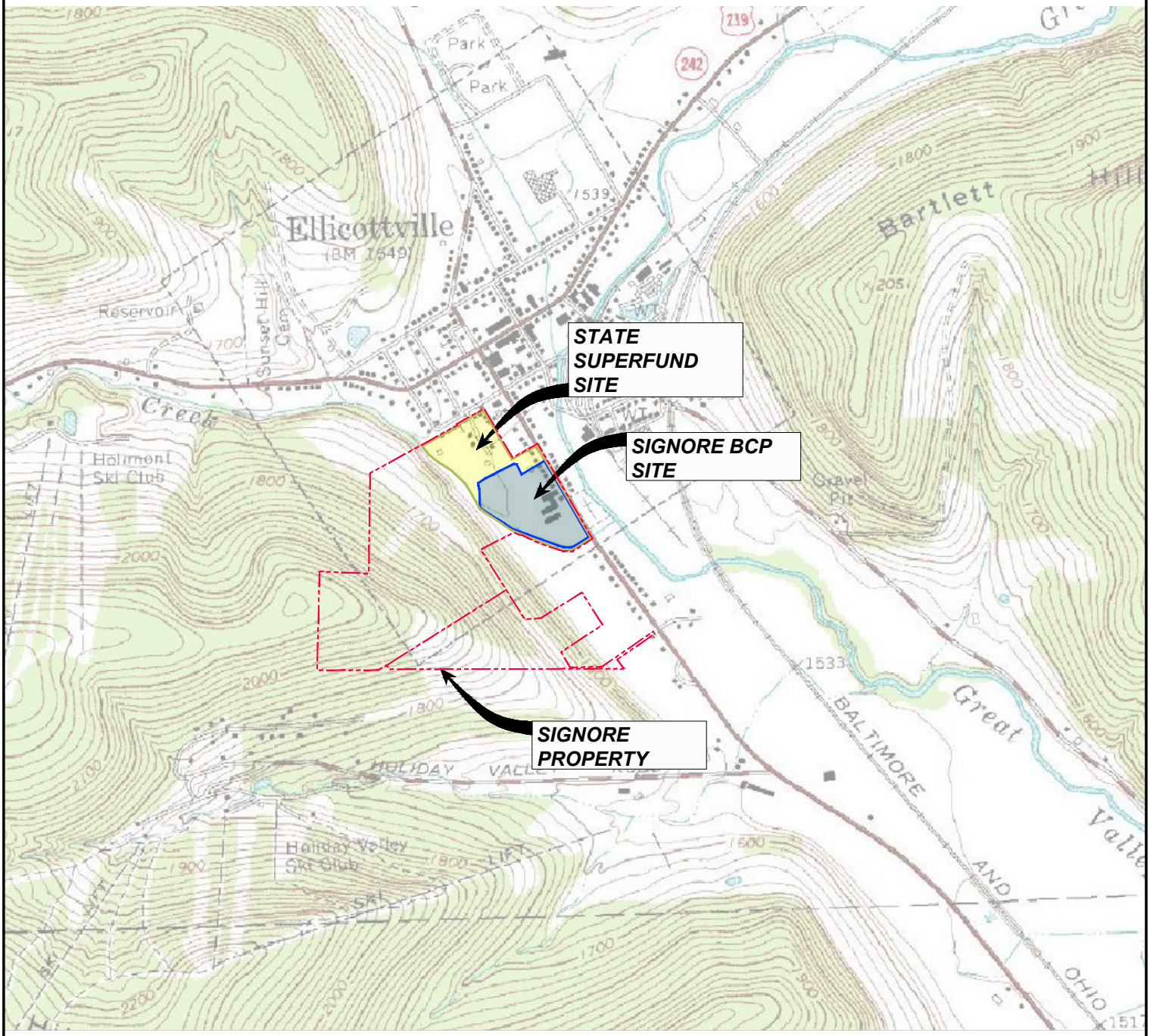
Record of Decision, Signore Inc. Site No. 905023. January 1992, New York State Department of Environmental Conservation.

Phase I Environmental Site Assessment, November 2007, Lender Consulting Services.

Phase II Environmental Site Assessment, December 2007, GZA GeoEnvironmental.

NYSDEC. July 2015. Decision Document

Soil Gas Sampling Analysis, Former Signore, Inc., August 25, 2016, GZA GeoEnvironmental.



NOTE:
BASE MAP ADAPTED FROM USA TOPO MAPS USING ArcGIS AUTOCAD PLUGIN

0 500 1000 2000
APPROXIMATE SCALE IN FEET

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NO.	ISSUE/DESCRIPTION	BY	DATE

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
BUFFALO, NEW YORK 14202
(716) 685-2300

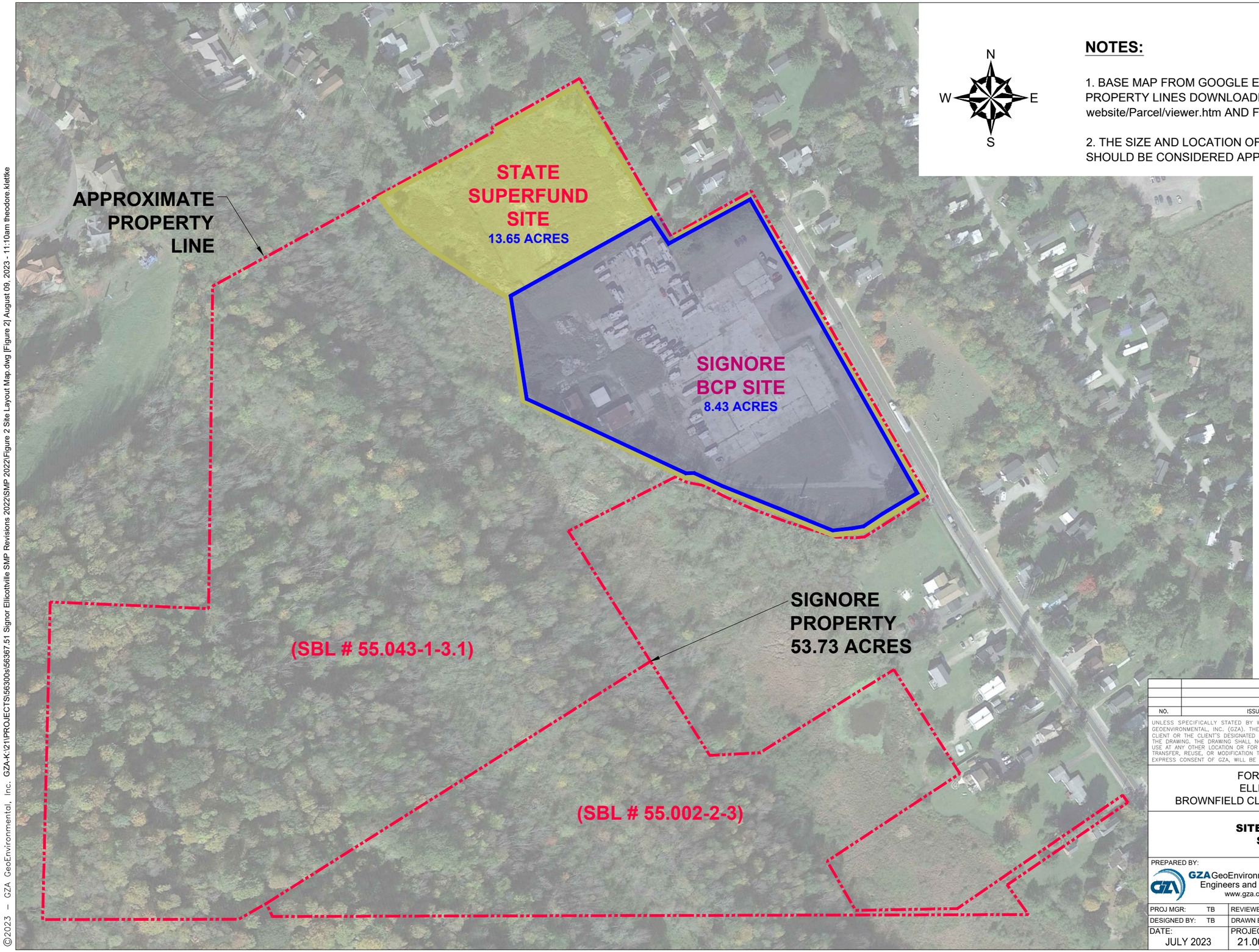
PREPARED FOR:
ISKALO ELLICOTTVILLE HOLDINGS, LLC

FORMER SIGNORE FACILITY
55-57 JEFFERSON STREET
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM
SITE NO. C905034

SITE MANAGEMENT PLAN
LOCUS PLAN

FIGURE
1

PROJ MGR:	TB	REVIEWED BY:	BAK	CHECKED BY:	BAK	DATE	PROJECT NO.	REVISION NO.
DESIGNED BY:	TB	DRAWN BY:	MDK	SCALE:	AS SHOWN	JULY 2023	21.0056367.51	



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NOTES:

1. BASE MAP FROM GOOGLE EARTH PRO, DATED 10/2019 AND PROPERTY LINES DOWNLOADED FROM http://maps.cattco.org/website/Parcel/viewer.htm AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

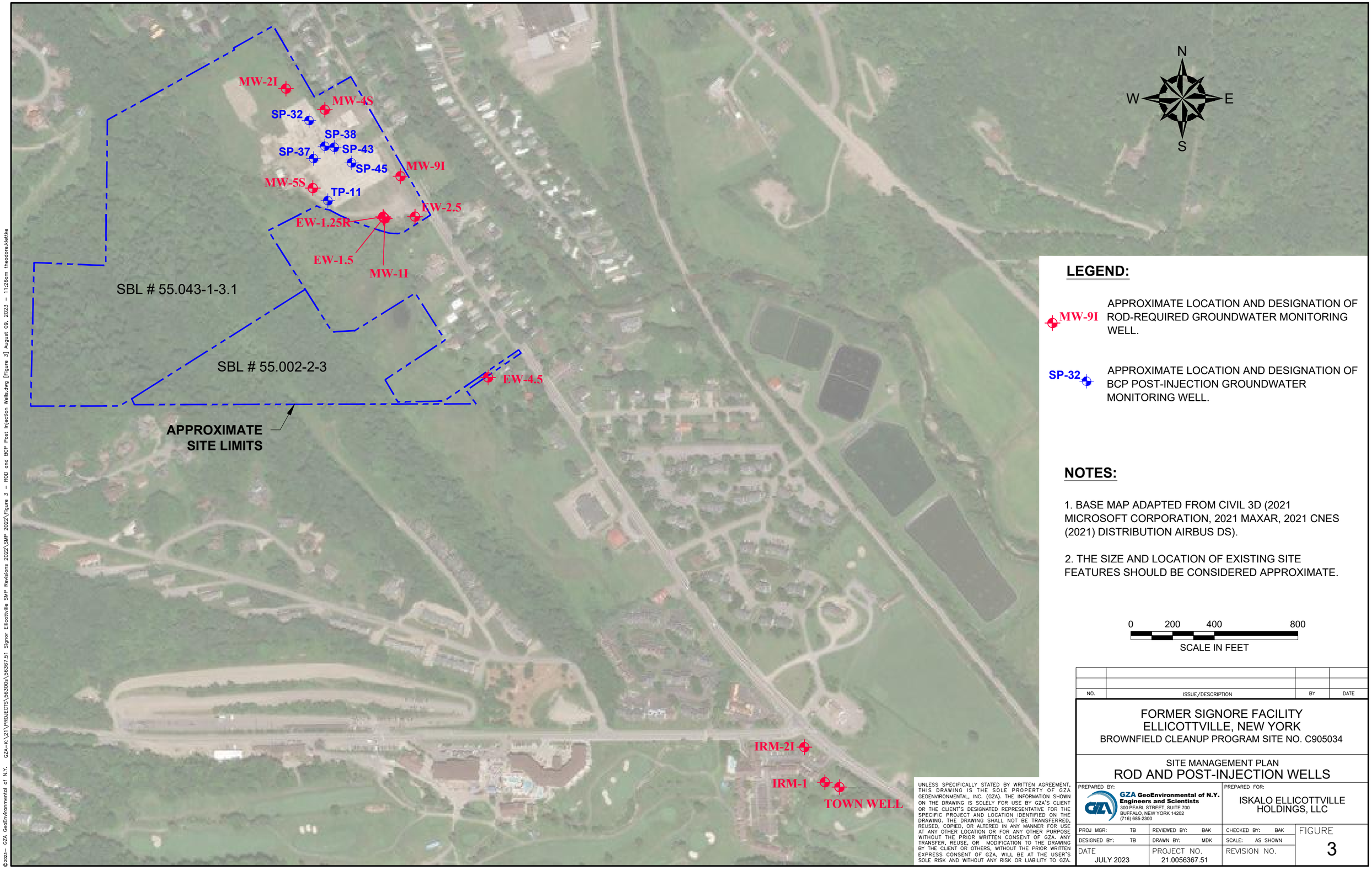
0 200 400
SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE FACILITY
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

SITE MANAGEMENT PLAN
SITE LAYOUT MAP

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		ISKALO ELLICOTTVILLE HOLDINGS, LLC	
PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE 2
DESIGNED BY: TB	DRAWN BY: MDK	SCALE: AS SHOWN	
DATE: JULY 2023	PROJECT NO. 21.0056367.51	REVISION NO.	



LEGEND:

MW-9I — APPROXIMATE LOCATION AND DESIGNATION OF ROD-REQUIRED GROUNDWATER MONITORING WELL.

SP-32 — APPROXIMATE LOCATION AND DESIGNATION OF BCP POST-INJECTION GROUNDWATER MONITORING WELL.

NOTES:

1. BASE MAP ADAPTED FROM CIVIL 3D (2021 MICROSOFT CORPORATION, 2021 MAXAR, 2021 CNES (2021) DISTRIBUTION AIRBUS DS).

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

0 200 400 800

SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

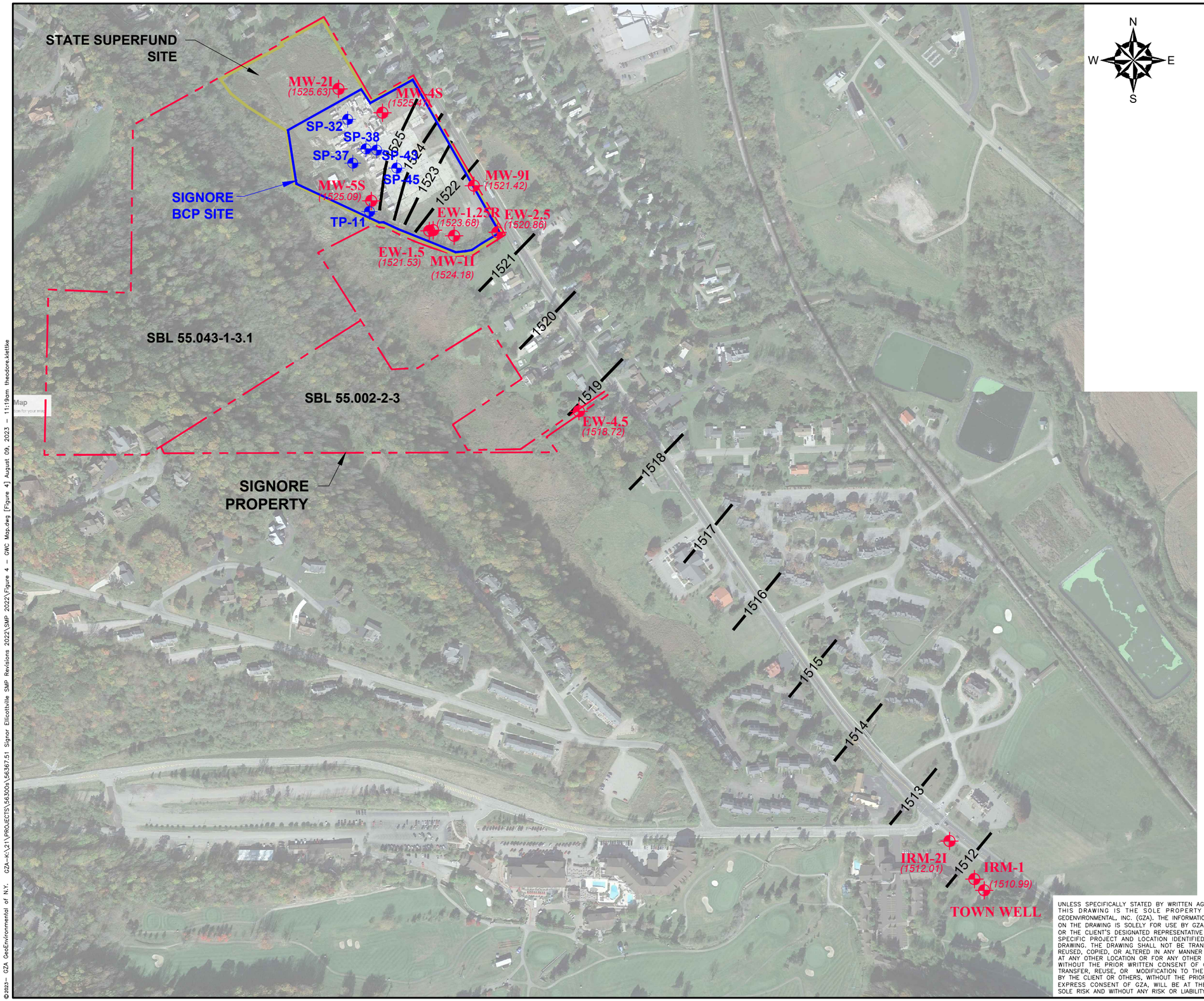
FORMER SIGNORE FACILITY
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

SITE MANAGEMENT PLAN
ROD AND POST-INJECTION WELLS

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
300 PEARL STREET, SUITE 700
BUFFALO, NEW YORK 14202
(716) 685-2300

PREPARED FOR:
ISKALO ELLICOTTVILLE HOLDINGS, LLC

PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE 3
DESIGNED BY: TB	DRAWN BY: MDK	SCALE: AS SHOWN	
DATE JULY 2023	PROJECT NO. 21.0056367.51	REVISION NO.	



LEGEND:

MW-9I (1521.42) — APPROXIMATE LOCATION AND DESIGNATION OF GROUNDWATER MONITORING WELL INSTALLED BY OTHERS, SHOWN WITH GROUNDWATER ELEVATION MEASURED ON SEPT 15-17, 2021.

SP-45 — APPROXIMATE LOCATION AND DESIGNATION OF BCP POST-INJECTION WELL INSTALLED BY OTHERS.

1520 — APPROXIMATE LOCATION AND GROUNDWATER ELEVATION CONTOUR AS MEASURED ON SEPT 15-17, 2021 (SEE NOTE 3 AND 4).

NOTES:

1. BASE MAP FROM GOOGLE EARTH PRO, DATED 10/2019 AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

3. BCP POST-INJECTION WELL ELEVATIONS FROM SEPTEMBER 2022 WERE NOT CONSIDERED FOR CONTOURING.

4. MONITORING WELLS EW-1.25R, EW-1.5 AND MW-1I WERE NOT CONSIDERED FOR GROUNDWATER CONTOURING.

5. THE GROUNDWATER CONTOURS SHOWN WERE DEVELOPED BY INTERPOLATING BETWEEN WIDELY SPACED MONITORING WELLS AND ARE SHOWN ON THIS DRAWING FOR DISCUSSION PURPOSES ONLY. ACTUAL GROUNDWATER ELEVATIONS WILL VARY DUE TO PRECIPITATION, BAROMETRIC PRESSURE AND OTHER FACTORS.

0 200 400 800
SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE FACILITY
ELLICOTTVILE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

SITE MANAGEMENT PLAN
SEPTEMBER 2021 GROUNDWATER CONTOUR MAP

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
300 PEARL STREET, SUITE 700
BUFFALO, NEW YORK 14202
(716) 685-2300

PREPARED FOR:
ISKALO ELLICOTTVILLE HOLDINGS, LLC

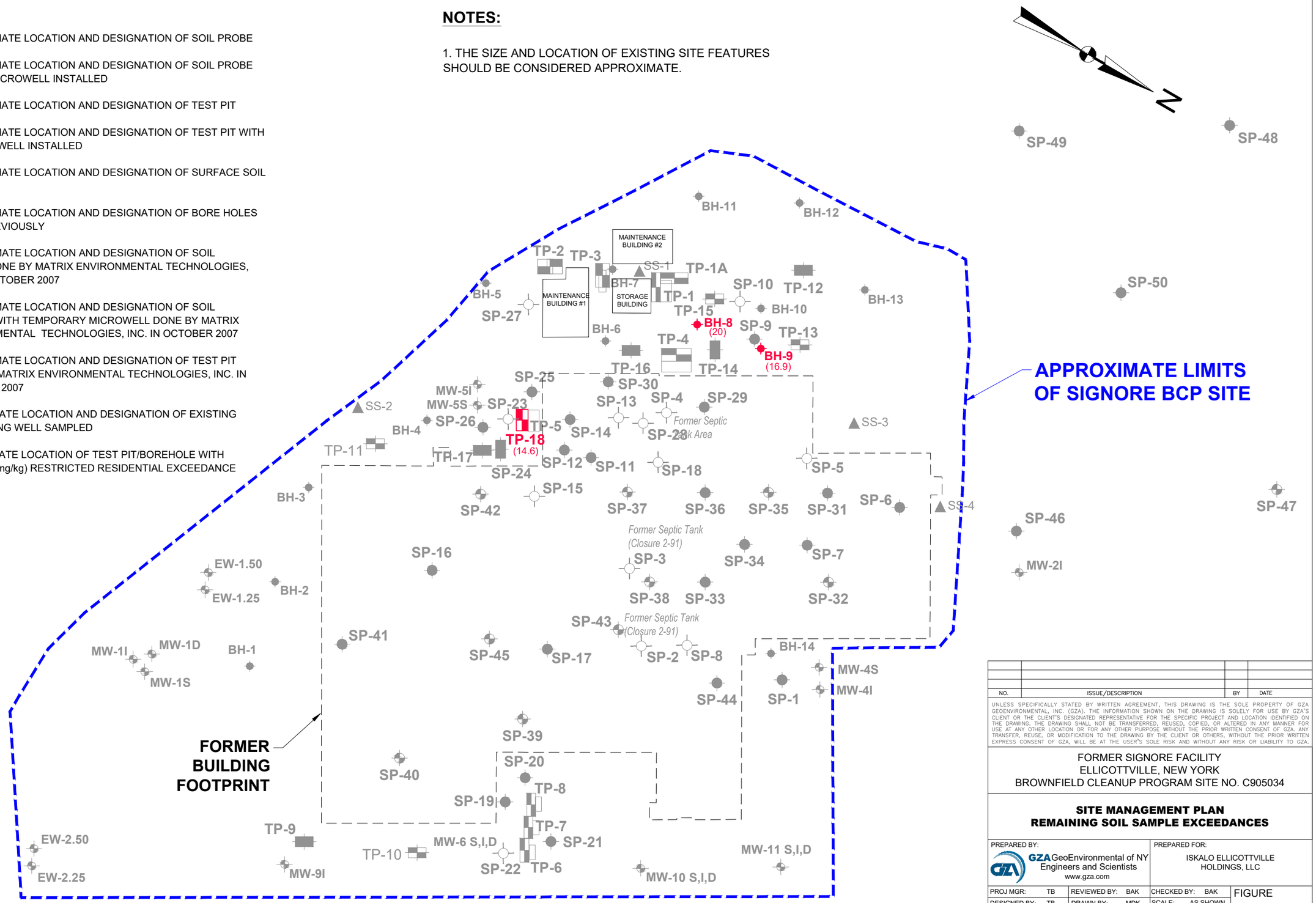
PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE
DESIGNED BY: TB	DRAWN BY: MDK	SCALE: AS SHOWN	4
DATE: JULY 2023	PROJECT NO.: 21.0056367.51	REVISION NO.:	

LEGEND:

- SP-33 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE
- SP-32 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE WITH 1" MICROWELL INSTALLED
- TP-18 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PIT
- TP-10 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PIT WITH 1" MICRO-WELL INSTALLED
- SS-3 — APPROXIMATE LOCATION AND DESIGNATION OF SURFACE SOIL SAMPLE
- BH-1 — APPROXIMATE LOCATION AND DESIGNATION OF BORE HOLES DONE PREVIOUSLY
- SP-20 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBE DONE BY MATRIX ENVIRONMENTAL TECHNOLOGIES, INC. IN OCTOBER 2007
- SP-27 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL PROBES WITH TEMPORARY MICROWELL DONE BY MATRIX ENVIRONMENTAL TECHNOLOGIES, INC. IN OCTOBER 2007
- TP-8 — APPROXIMATE LOCATION AND DESIGNATION OF TEST PIT DONE BY MATRIX ENVIRONMENTAL TECHNOLOGIES, INC. IN OCTOBER 2007
- EW-1.25 — APPROXIMATE LOCATION AND DESIGNATION OF EXISTING MONITORING WELL SAMPLED
- / — APPROXIMATE LOCATION OF TEST PIT/BOREHOLE WITH ARSENIC (mg/kg) RESTRICTED RESIDENTIAL EXCEEDANCE

NOTES:

1. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

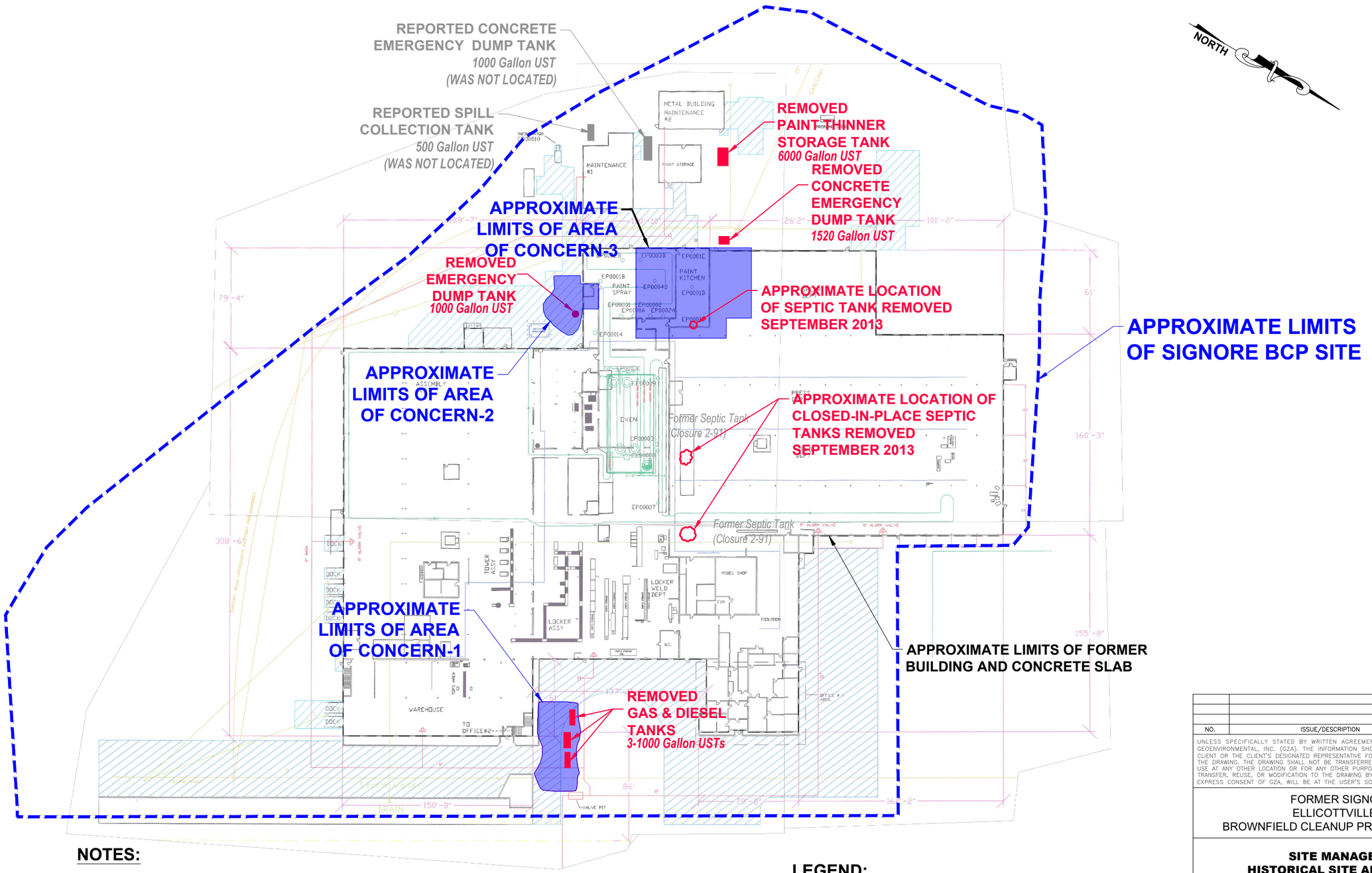


NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE FACILITY
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

SITE MANAGEMENT PLAN
REMAINING SOIL SAMPLE EXCEEDANCES

PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		PREPARED FOR: ISKALO ELLICOTTVILLE HOLDINGS, LLC	
PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE 5
DESIGNED BY: TB	DRAWN BY: MDK	SCALE: AS SHOWN	
DATE: JULY 2023	PROJECT NO. 21.0056367.51	REVISION NO.	



NOTES:

1. BASE MAP ADAPTED FROM A SITE INVESTIGATION PLAN PROVIDED BY THE CLIENT AND FIELD OBSERVATIONS.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

LEGEND:

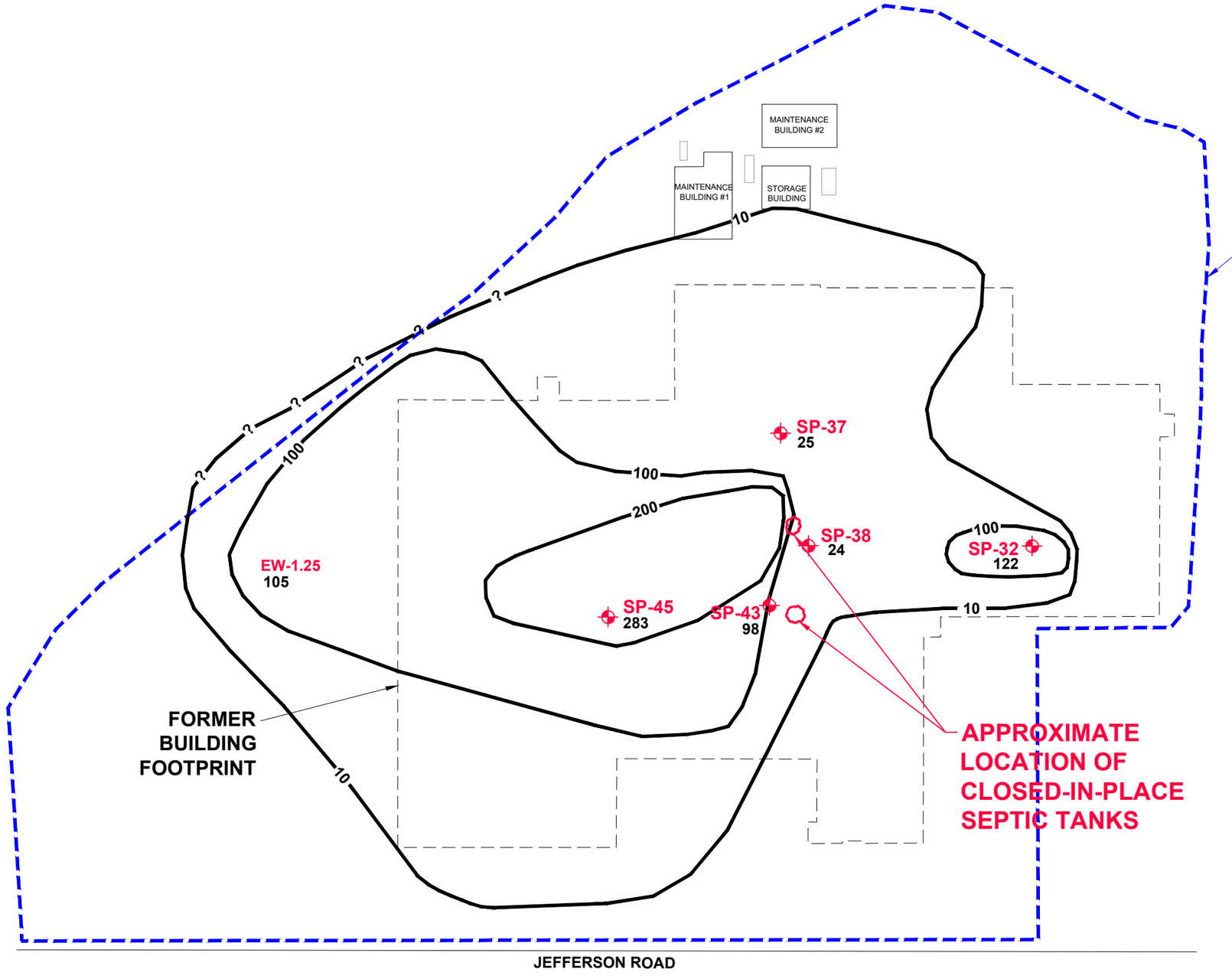
AREA OF CONCERN

NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE FACILITY
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

SITE MANAGEMENT PLAN
HISTORICAL SITE AREAS OF CONCERN

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		ISKALO ELLICOTTVILLE HOLDINGS, LLC	
PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE 6
DESIGNED BY: TB	DRAWN BY: MDK	SCALE: AS SHOWN	
DATE: JULY 2023	PROJECT NO. 21.0056367.51	REVISION NO.	



LEGEND:

SP-45 — APPROXIMATE LOCATION AND DESIGNATION OF WELLS MONITORED AS PART OF PILOT TESTING (6 LOCATIONS)

100 / 122 — MEASURED CONCENTRATION (AT SAMPLING POINT) OF TOTAL CHLORINATED VOCs IN GROUNDWATER (PARTS PER BILLION, PPB)

CONTOUR OF CONCENTRATION OF TOTAL CHLORINATED VOCs IN GROUNDWATER (PARTS PER BILLION, PPB)

NOTES:

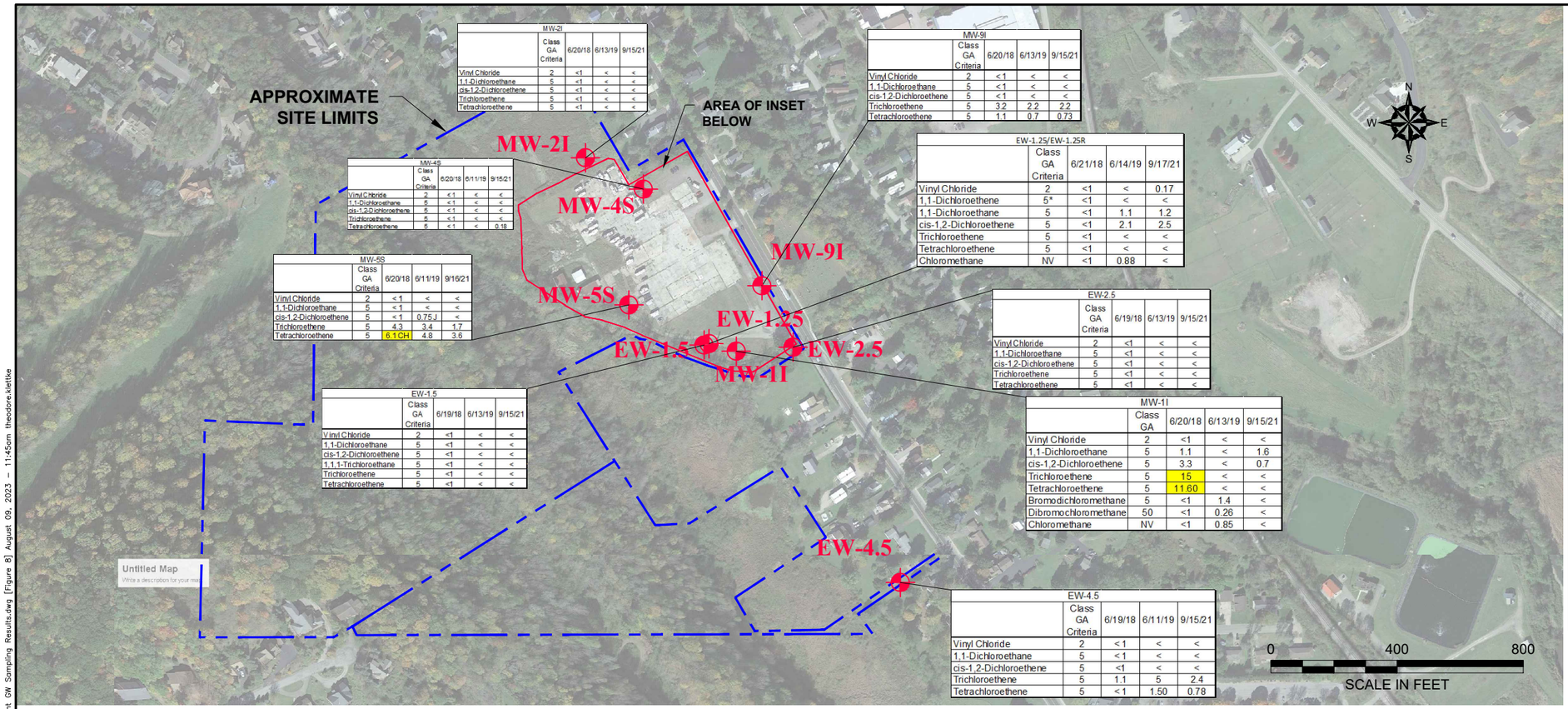
1. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE FACILITY
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

SITE MANAGEMENT PLAN
PRE-REMEDIAL INJECTION TOTAL CHLORINATED VOC GROUNDWATER CONCENTRATIONS

PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		PREPARED FOR: ISKALO ELLICOTTVILLE HOLDINGS, LLC	
PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE 7
DESIGNED BY: TB	DRAWN BY: MDK	SCALE: AS SHOWN	
DATE: JULY 2023	PROJECT NO. 21.0056367.51	REVISION NO.	



MW-2I	Class GA Criteria	6/20/18	6/13/19	9/15/21
Vinyl Chloride	2	<1	<	<
1,1-Dichloroethane	5	<1	<	<
cis-1,2-Dichloroethene	5	<1	<	<
Trichloroethene	5	<1	<	<
Tetrachloroethene	5	<1	<	<

MW-4S	Class GA Criteria	6/20/18	6/11/19	9/15/21
Vinyl Chloride	2	<1	<	<
1,1-Dichloroethane	5	<1	<	<
cis-1,2-Dichloroethene	5	<1	<	<
Trichloroethene	5	<1	<	<
Tetrachloroethene	5	<1	<	0.18

MW-5S	Class GA Criteria	6/20/18	6/11/19	9/15/21
Vinyl Chloride	2	<1	<	<
1,1-Dichloroethane	5	<1	<	<
cis-1,2-Dichloroethene	5	<1	0.75 J	<
Trichloroethene	5	4.3	3.4	1.7
Tetrachloroethene	5	6.1 CH	4.8	3.6

EW-1.5	Class GA Criteria	6/19/18	6/13/19	9/15/21
Vinyl Chloride	2	<1	<	<
1,1-Dichloroethane	5	<1	<	<
cis-1,2-Dichloroethene	5	<1	<	<
1,1,1-Trichloroethane	5	<1	<	<
Trichloroethene	5	<1	<	<
Tetrachloroethene	5	<1	<	<

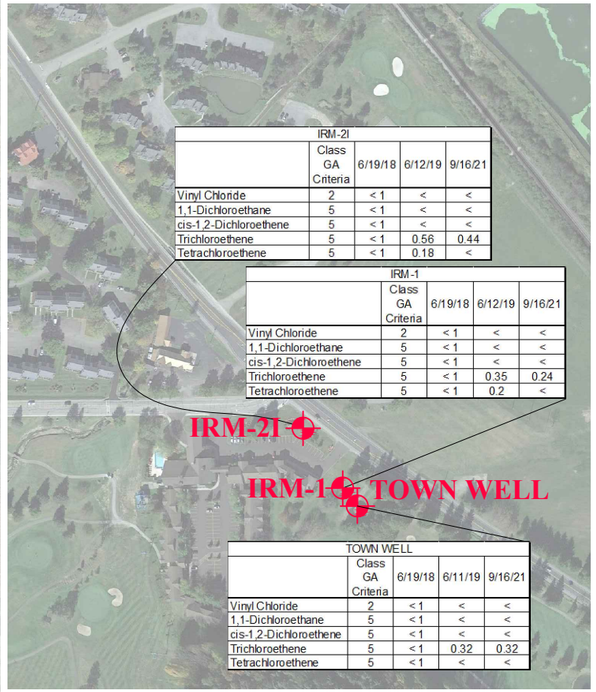
MW-9I	Class GA Criteria	6/20/18	6/13/19	9/15/21
Vinyl Chloride	2	<1	<	<
1,1-Dichloroethane	5	<1	<	<
cis-1,2-Dichloroethene	5	<1	<	<
Trichloroethene	5	3.2	2.2	2.2
Tetrachloroethene	5	1.1	0.7	0.73

EW-1.25/EW-1.25R	Class GA Criteria	6/21/18	6/14/19	9/17/21
Vinyl Chloride	2	<1	<	0.17
1,1-Dichloroethene	5*	<1	<	<
1,1-Dichloroethane	5	<1	1.1	1.2
cis-1,2-Dichloroethene	5	<1	2.1	2.5
Trichloroethene	5	<1	<	<
Tetrachloroethene	5	<1	<	<
Chloromethane	NV	<1	0.88	<

EW-2.5	Class GA Criteria	6/19/18	6/13/19	9/15/21
Vinyl Chloride	2	<1	<	<
1,1-Dichloroethane	5	<1	<	<
cis-1,2-Dichloroethene	5	<1	<	<
Trichloroethene	5	<1	<	<
Tetrachloroethene	5	<1	<	<

MW-1I	Class GA	6/20/18	6/13/19	9/15/21
Vinyl Chloride	2	<1	<	<
1,1-Dichloroethane	5	1.1	<	1.6
cis-1,2-Dichloroethene	5	3.3	<	0.7
Trichloroethene	5	15	<	<
Tetrachloroethene	5	11.60	<	<
Bromodichloromethane	5	<1	1.4	<
Dibromochloromethane	50	<1	0.26	<
Chloromethane	NV	<1	0.85	<

EW-4.5	Class GA Criteria	6/19/18	6/11/19	9/15/21
Vinyl Chloride	2	< 1	<	<
1,1-Dichloroethane	5	< 1	<	<
cis-1,2-Dichloroethene	5	<1	<	<
Trichloroethene	5	1.1	5	2.4
Tetrachloroethene	5	< 1	1.50	0.78



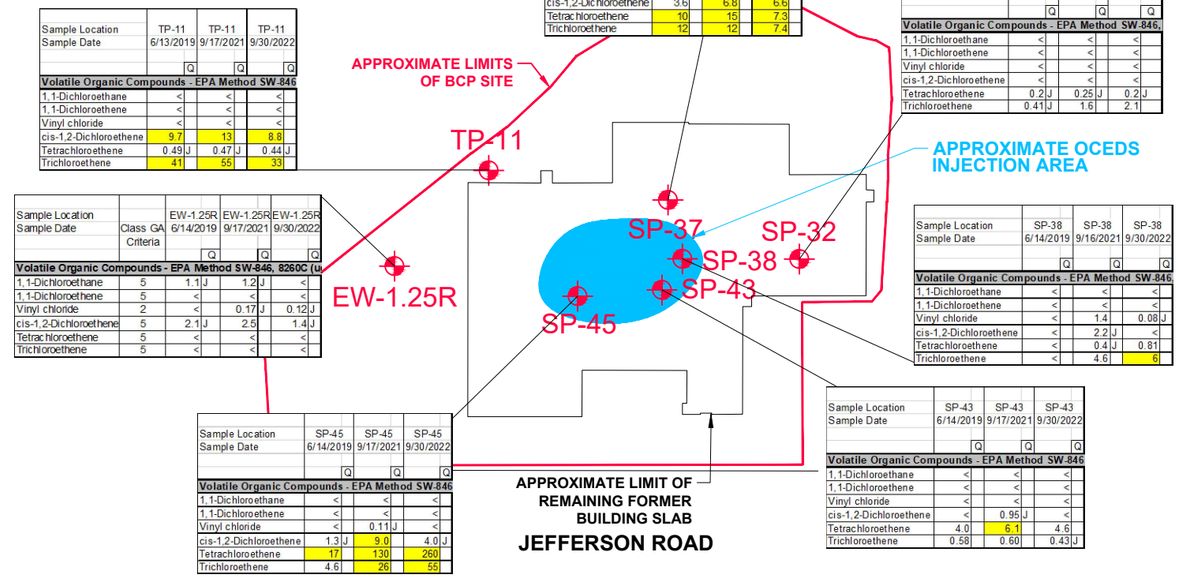
IRM-2I	Class GA Criteria	6/19/18	6/12/19	9/16/21
Vinyl Chloride	2	< 1	<	<
1,1-Dichloroethane	5	< 1	<	<
cis-1,2-Dichloroethene	5	< 1	<	<
Trichloroethene	5	< 1	0.56	0.44
Tetrachloroethene	5	< 1	0.18	<

IRM-1	Class GA Criteria	6/19/18	6/12/19	9/16/21
Vinyl Chloride	2	< 1	<	<
1,1-Dichloroethane	5	< 1	<	<
cis-1,2-Dichloroethene	5	< 1	<	<
Trichloroethene	5	< 1	0.35	0.24
Tetrachloroethene	5	< 1	0.2	<

TOWN WELL	Class GA Criteria	6/19/18	6/11/19	9/16/21
Vinyl Chloride	2	< 1	<	<
1,1-Dichloroethane	5	< 1	<	<
cis-1,2-Dichloroethene	5	< 1	<	<
Trichloroethene	5	< 1	0.32	0.32
Tetrachloroethene	5	< 1	<	<

LEGEND:

MW-5S — APPROXIMATE LOCATION AND DESIGNATION OF GROUNDWATER MONITORING WELL



Sample Location	SP-37	SP-37	SP-37
Sample Date	6/14/2019	9/17/2021	9/30/2022
	Q	Q	Q
Volatile Organic Compounds - EPA Method SW-846			
1,1-Dichloroethane	<	<	<
1,1-Dichloroethene	<	<	<
Vinyl chloride	<	<	<
cis-1,2-Dichloroethene	3.6	6.8	6.6
Tetrachloroethene	10	15	7.3
Trichloroethene	12	12	7.4

Sample Location	TP-11	TP-11	TP-11
Sample Date	6/13/2019	9/17/2021	9/30/2022
	Q	Q	Q
Volatile Organic Compounds - EPA Method SW-846			
1,1-Dichloroethane	<	<	<
1,1-Dichloroethene	<	<	<
Vinyl chloride	<	<	<
cis-1,2-Dichloroethene	9.7	13	8.8
Tetrachloroethene	0.49 J	0.47 J	0.44 J
Trichloroethene	41	55	33

Sample Location	SP-32	SP-32	SP-32
Sample Date	6/14/2019	9/16/2021	9/30/2022
	Q	Q	Q
Volatile Organic Compounds - EPA Method SW-846,			
1,1-Dichloroethane	<	<	<
1,1-Dichloroethene	<	<	<
Vinyl chloride	<	<	<
cis-1,2-Dichloroethene	<	<	<
Tetrachloroethene	0.2 J	0.25 J	0.2 J
Trichloroethene	0.41 J	1.6	2.1

Sample Location	Class GA	EW-1.25R	EW-1.25R	EW-1.25R
Sample Date	Criteria	6/14/2019	9/17/2021	9/30/2022
		Q	Q	Q
Volatile Organic Compounds - EPA Method SW-846, 8260C (u				
1,1-Dichloroethane	5	1.1 J	1.2 J	<
1,1-Dichloroethene	5	<	<	<
Vinyl chloride	2	<	0.17 J	0.12 J
cis-1,2-Dichloroethene	5	2.1 J	2.5	1.4 J
Tetrachloroethene	5	<	<	<
Trichloroethene	5	<	<	<

Sample Location	SP-38	SP-38	SP-38
Sample Date	6/14/2019	9/16/2021	9/30/2022
	Q	Q	Q
Volatile Organic Compounds - EPA Method SW-846			
1,1-Dichloroethane	<	<	<
1,1-Dichloroethene	<	<	<
Vinyl chloride	<	1.4	0.08 J
cis-1,2-Dichloroethene	<	2.2 J	<
Tetrachloroethene	<	0.4 J	0.81
Trichloroethene	<	4.6	6

Sample Location	SP-45	SP-45	SP-45
Sample Date	6/14/2019	9/17/2021	9/30/2022
	Q	Q	Q
Volatile Organic Compounds - EPA Method SW-846			
1,1-Dichloroethane	<	<	<
1,1-Dichloroethene	<	<	<
Vinyl chloride	<	0.11 J	<
cis-1,2-Dichloroethene	1.3 J	9.0	4.0 J
Tetrachloroethene	17	130	260
Trichloroethene	4.6	26	55

Sample Location	SP-43	SP-43	SP-43
Sample Date	6/14/2019	9/17/2021	9/30/2022
	Q	Q	Q
Volatile Organic Compounds - EPA Method SW-846			
1,1-Dichloroethane	<	<	<
1,1-Dichloroethene	<	<	<
Vinyl chloride	<	<	<
cis-1,2-Dichloroethene	<	0.95 J	<
Tetrachloroethene	4.0	6.1	4.6
Trichloroethene	0.58	0.60	0.43 J

NOTES:

1. BASE MAP ADAPTED FROM A 2019 AERIAL PHOTO DOWNLOADED FROM GOOGLE EARTH PRO.

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

3. VALUES SHOWN IN TABLES ARE PRESENTED IN PARTS PER BILLION (ppb).

0 200 400
SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

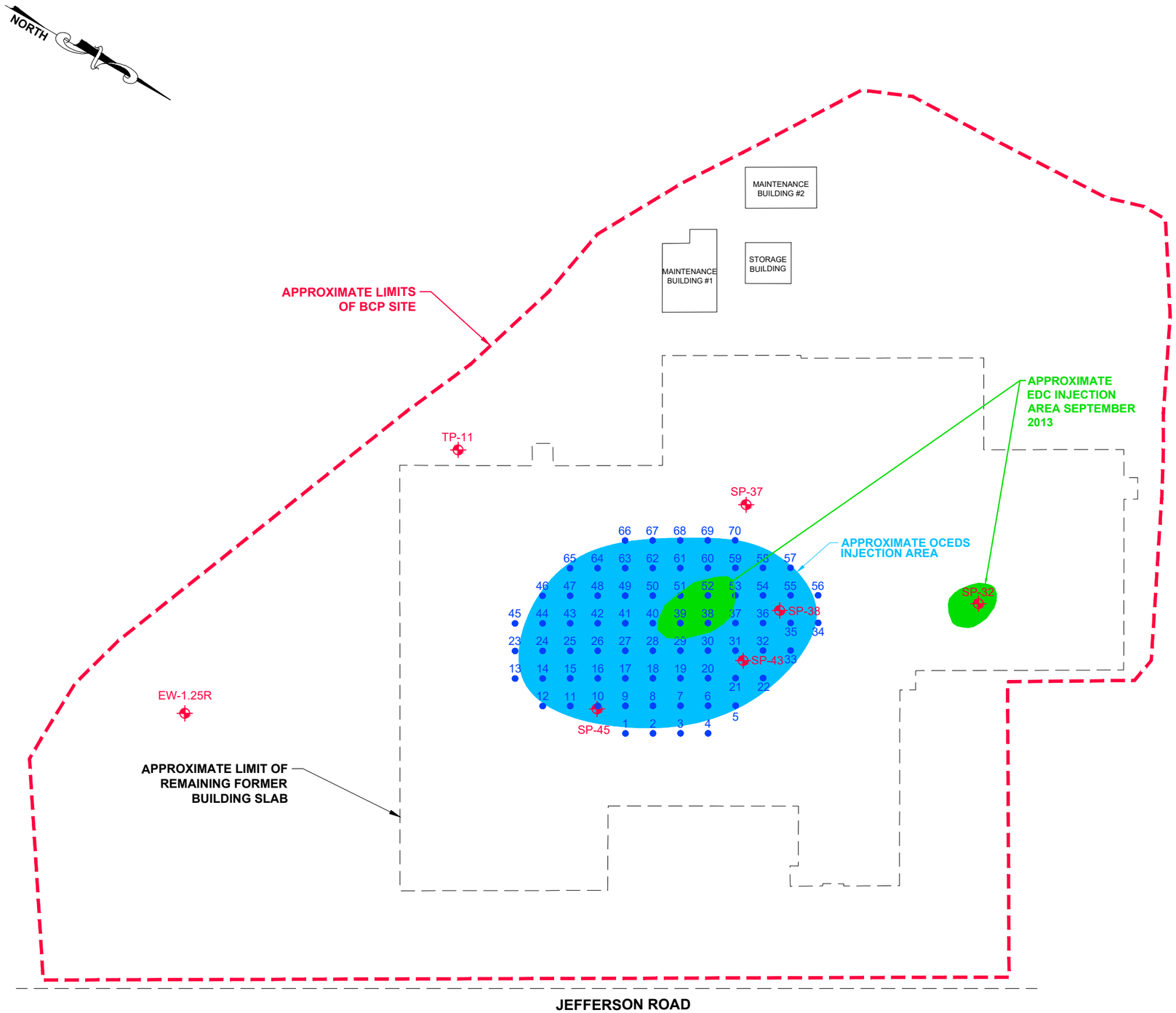
FORMER SIGNORE FACILITY
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

SITE MANAGEMENT PLAN
RECENT GROUNDWATER SAMPLING RESULTS

PREPARED BY:
GZA GeoEnvironmental of N.Y.
Engineers and Scientists
300 PEARL STREET, SUITE 700
BUFFALO, NEW YORK 14202
(716) 685-2300

PREPARED FOR:
ISKALO ELLICOTTVILLE HOLDINGS, LLC

PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE
DESIGNED BY: TB	DRAWN BY: MDK	SCALE: AS SHOWN	8
DATE: JULY 2023	PROJECT NO.: 21.0056367.51	REVISION NO.	



LEGEND:

1 ● ORGANIC CARBON ELECTRON DONOR SUBSTRATE (OCEDS) INJECTION POINT JULY 2015

SP-37 APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS ASSOCIATED WITH OCEDS INJECTIONS

NOTES:

1. FIGURE DEVELOPED FROM HISTORICAL SITE PLANS AND FIELD OBSERVATIONS

2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

0 40 80 160

SCALE IN FEET

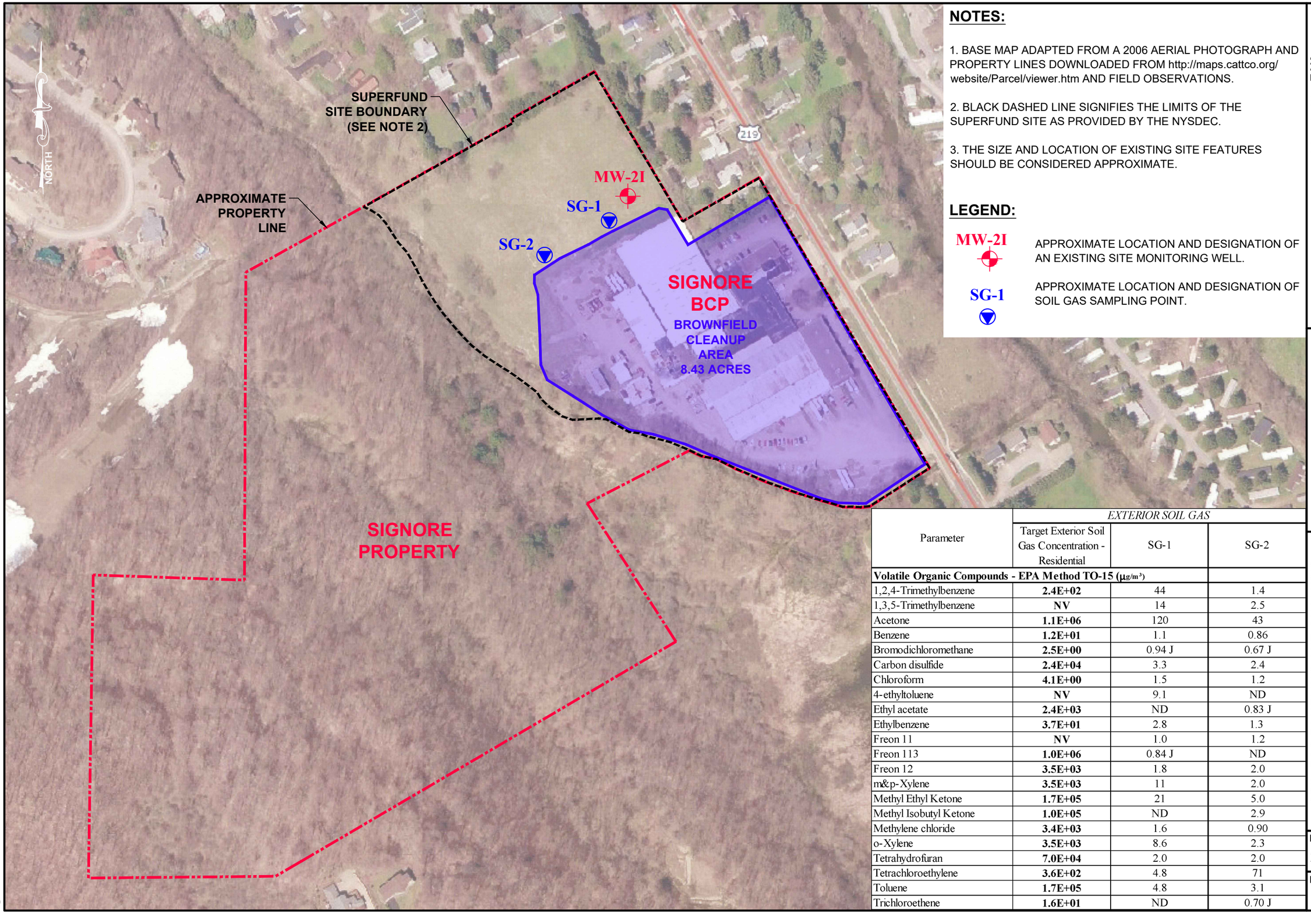
NO.	ISSUE/DESCRIPTION	BY	DATE

FORMER SIGNORE FACILITY
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM SITE NO. C905034

SITE MANAGEMENT PLAN
LOCATION OF ORGANIC CARBON ELECTRON DONOR SUBSTRATE INJECTIONS

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		ISKALO ELLICOTTVILLE HOLDINGS, LLC	
PROJ MGR: TB	REVIEWED BY: BAK	CHECKED BY: BAK	FIGURE
DESIGNED BY: TB	DRAWN BY: MDK	SCALE: 1" = 60'	9
DATE: JULY 2023	PROJECT NO. 21.0056367.51	REVISION NO.	

GZA-K:\21\PROJECTS\56300s\56367.51 Signor Ellicottville SMP Revisions 2022\SMP 2022\Figure 9 - July 2015 Injections.dwg [Figure 9] August 09, 2023 - 11:20am theodore.klettke



NOTES:

1. BASE MAP ADAPTED FROM A 2006 AERIAL PHOTOGRAPH AND PROPERTY LINES DOWNLOADED FROM http://maps.cattco.org/website/Parcel/viewer.htm AND FIELD OBSERVATIONS.

2. BLACK DASHED LINE SIGNIFIES THE LIMITS OF THE SUPERFUND SITE AS PROVIDED BY THE NYSDEC.

3. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

LEGEND:

MW-2I — APPROXIMATE LOCATION AND DESIGNATION OF AN EXISTING SITE MONITORING WELL.

SG-1 — APPROXIMATE LOCATION AND DESIGNATION OF SOIL GAS SAMPLING POINT.

Parameter	*EXTERIOR SOIL GAS*		
	Target Exterior Soil Gas Concentration - Residential	SG-1	SG-2
Volatile Organic Compounds - EPA Method TO-15 (µg/m³)			
1,2,4-Trimethylbenzene	**2.4E+02**	44	1.4
1,3,5-Trimethylbenzene	**NV**	14	2.5
Acetone	**1.1E+06**	120	43
Benzene	**1.2E+01**	1.1	0.86
Bromodichloromethane	**2.5E+00**	0.94 J	0.67 J
Carbon disulfide	**2.4E+04**	3.3	2.4
Chloroform	**4.1E+00**	1.5	1.2
4-ethyltoluene	**NV**	9.1	ND
Ethyl acetate	**2.4E+03**	ND	0.83 J
Ethylbenzene	**3.7E+01**	2.8	1.3
Freon 11	**NV**	1.0	1.2
Freon 113	**1.0E+06**	0.84 J	ND
Freon 12	**3.5E+03**	1.8	2.0
m&p-Xylene	**3.5E+03**	11	2.0
Methyl Ethyl Ketone	**1.7E+05**	21	5.0
Methyl Isobutyl Ketone	**1.0E+05**	ND	2.9
Methylene chloride	**3.4E+03**	1.6	0.90
o-Xylene	**3.5E+03**	8.6	2.3
Tetrahydrofuran	**7.0E+04**	2.0	2.0
Tetrachloroethylene	**3.6E+02**	4.8	71
Toluene	**1.7E+05**	4.8	3.1
Trichloroethene	**1.6E+01**	ND	0.70 J

DRAWN BY: **TAK**

DATE: **NOVEMBER 2023**

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET

0 100 200 400

SOIL GAS SAMPLING AND ANALYSIS
FORMER SIGNORE, INC.
ELLICOTTVILLE, NEW YORK
BROWNFIELD CLEANUP PROGRAM
SITE NO. C905034

SAMPLE LOCATIONS

PROJECT No.
21.0056367.70

FIGURE No.
10

GZA-K:\21\PROJECTS\56300s\56367.7 Signor Ellicottville Soil Gas WP\Figure 1 Sample Locations updated 11-07-23.dwg [Figure 1] November 07, 2023 - 3:32pm theodore.kletke

Table 2
Remaining Soil Sample Exceedances
Site Management Plan
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location	Part 375	Part 375	Part 375	BH-8		BH-9		TP-18	
Sample Depth (ft bgs)	Unrestricted	Restricted	Commercial	4-6		10-11.5		2.3	
Sample Date	SCOs	Residential SCOs	SCOs	7/30/90 - 8/3/90	Q	7/30/90 - 8/3/90	Q	9/26/2012	Q
Metals - EPA Method 6010/7471 (mg/kg)									
Arsenic	**13**	16	16	**20**	J	**16.9**	J	**14.6**	

NOTES: Notes:

1. Only soil samples with exceedances are presented in this table.
2. Q = laboratory qualifier. J = estimated concentration.
3. mg/kg = parts per million.
4. Part 375 Residential Soil Cleanup Objectives (SCOs) are from NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006.
5. BH-8 and BH-9 conducted during Remedial Investigation by others in July and August 1990.
6. **BOLD** Concentrations exceed its Part 375 Unrestricted SCOs.
7. Shaded Concentrations exceed its Part 375 Restricted Residential and Commercial SCO (same value).

Table 3
Representative Groundwater Elevation Measurements
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

	September 2021 Biennial Monitoring Groundwater Elevation Measurements			
	Monitoring Well Location	**Top of Riser Elevation (ft.)**	**Groundwater Depth (ft.)**	**Groundwater Elevation (ft.)**
On-Site Wells	EW-1.25R	1534.04	10.36	1523.68
	EW-1.5	1533.92	10.52	1521.53
	EW-2.5	1533.92	13.06	1520.86
	MW-1I	1531.79	10.61	1524.18
	MW-4S	1535.42	9.95	1525.47
	MW-5S	1534.16	9.07	1525.09
	MW-9I	1532.30	10.88	1521.42
	MW-2I	1540.87	15.24	1525.63
Off-Site Wells	EW-4.5	1535.65	16.93	1518.72
	IRM-1	1534.75	23.76	1510.99
	IRM-2I	1535.99	23.98	1512.01

	September 2022 Post-Injection Monitoring Groundwater Elevation Measurements			
	Monitoring Well Location	**Top of Riser Elevation (ft.)**	**Groundwater Depth (ft.)**	**Groundwater Elevation (ft.)**
On-Site Wells	SP-32	1533.52	7.59	1525.93
	SP-37	1533.36	7.20	1526.16
	SP-38	1533.52	7.90	1525.62
	SP-43	1533.42	8.28	1525.14
	SP-45	1533.43	9.25	1524.18
	TP-11	1532.98	9.15	1523.83

Table 4
Analytical Sample Summary
IRM Analytical Testing Program Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Location	Date Collected	Depth/ Interval (ft bgs)	VOCs EPA Method 8260-TCL	SVOCs EPA Method 8270-STARS	RCRA 8 Metals EPA Method 6010/7471	SVOCs EPA Method 8270-BN	PCBs EPA Method 8082	TCLP VOCs EPA Method 8260C	TCLP LEAD EPA Method 6010C	FLASHPOINT EPA Method 1010	VOCs EPA Method SW-846, 8260B	SVOCs EPA Method 8270-BN Acid Extractables	Methane, Ethane, Ethene RSK 175	T.O.C. EPA Method 9060	Chloride, Sulfate EPA Method 300	Nitrate EPA Method 335.2	Dissolved Iron, Manganese SW-846, 6010B
SOIL SAMPLES AOC-1 EXCAVATION																	
AOC-1-E-WALL	11/3/2011	5 to 7	X	X													
AOC-1-NE-WALL	11/3/2011	5 to 7	X	X													
AOC-1-BOTTOM-E	11/3/2011	10.5 to 11	X	X													
AOC-1-NW-WALL	11/4/2011	6 to 10	X	X													
AOC-1-BOTTOM-W	11/4/2011	7 to 8	X	X													
AOC-1-SE-WALL	11/4/2011	6 to 8	X	X													
AOC-1-SW-WALL	11/7/2011	7 to 10	X	X													
AOC-1-BOTTOM-CENTER	11/9/2011	15	X	X													
AOC-1-BOTTOM-SW	11/9/2011	15	X	X													
AOC-1-BOTTOM-W	11/11/2011	15	X	X													
AOC-1-W-WALL	11/11/2011	9 to 11	X	X													
SOIL SAMPLES AOC-2 EXCAVATION																	
EXC-2-NE-WALL	10/24/2011	8 to 10	X	X													
EXC-2-NW-WALL	10/24/2011	8 to 10	X	X													
EXC-2-BOTTOM-N	10/25/2011	14 to 15	X	X													
EXC-2-BOTTOM-S	10/25/2011	14 to 15	X	X													
EXC-2-SW-WALL	10/25/2011	8 to 10	X	X													
EXC-2-S-WALL	10/25/2011	8 to 10	X	X													
EXC-2-E-WALL	10/25/2011	8 to 10	X	X													
EXC-2-SE-WALL	10/25/2011	8 to 10	X	X													
EXC-2-BOTT-NWALL	8/12/2013	14	X														
EXC-2-BOTT-SWWALL	8/12/2013	15	X														
EXC-2-NWWALL-5	8/12/2013	5	X														
EXC-2-BOTT-SEWALL	8/12/2013	15	X														
SOIL SAMPLES AOC-3 EXCAVATION																	
AOC-3-BOTT-SW	8/13/2013	15	X														
AOC-3-BOTT-NW	8/13/2013	15	X														
AOC-3-STOCK-S	8/14/2013	NA	X														
AOC-3-STOCK-N	8/14/2013	NA	X														
AOC-3-BOTT-3	8/15/2013	15	X														
AOC-3-WWALL-1	8/15/2013	12	X														
AOC-3-WWALL-2	8/15/2013	12	X														
AOC-3-WWALL-3	8/15/2013	10	X														
AOC-3-NWALL-1	8/19/2013	12	X														
AOC-3-BOTT-4	8/19/2013	15	X														
AOC-3-SWALL-1	8/19/2013	12	X														
AOC-3-EWALL-1	8/22/2013	12	X														
AOC-3-BOTT-5	8/22/2013	15	X														
AOC-3-EWALL-2	8/22/2013	12	X														
AOC-3-SWALL-2	8/22/2013	12	X														
AOC-3-NWALL-2	8/22/2013	14	X														
AOC-3-EWALL-3	8/22/2013	12	X														
AOC-3-BOTT-6	8/22/2013	15	X														
SOIL SAMPLES 6,000-GALLON STEEL UST EXCAVATION																	
UST-EXC-N-WALL	10/28/2011	5 to 7	X	X													
UST-EXC-S-WALL	10/28/2011	5 to 7	X	X													
UST-EXC-E-WALL	10/28/2011	5 to 7	X	X													
UST-EXC-W-WALL	10/28/2011	5 to 7	X	X													
UST-EXC-BOTTOM	10/28/2011	9 to 9.5	X	X													
GROUNDWATER SAMPLE AOC-1 EXCAVATION																	
AOC-1-GW	11/9/2011	NA	X														
GROUNDWATER SAMPLE AOC-2 EXCAVATION																	
EXC-2-GW	10/25/2011	NA	X	X													
GROUNDWATER SAMPLES AOC-3 EXCAVATION																	
AOC-3-GW	8/14/2013	NA	X														
AOC-3-GW-2	8/22/2013	NA	X														
GROUNDWATER SAMPLES FALL 2013 ELECTRON DONOR COMPOUND INJECTION PILOT STUDY																	
EW-1.25	10/17/2013	NA	X										X	X	X	X	X
SP-32	10/17/2013	NA									X		X	X	X	X	X
SP-37	10/17/2013	NA									X		X	X	X	X	X
SP-38	10/17/2013	NA									X		X	X	X	X	X
SP-43	10/17/2013	NA									X		X	X	X	X	X
SP-45	10/17/2013	NA									X		X	X	X	X	X

Notes:
1. ft bgs = feet below ground surface.
2. VOCs = Volatile Organic Compounds.
3. SVOCs = Semi-Volatile Organic Compounds.
4. RCRA Metals = Resource Conservation and Recovery Act.
5. PCBs = Polychlorinated biphenyls.
6. TCL = Target Compound List.
7. BN = Base Neutrals.
8. TCLP = Toxicity Characteristic Leaching Procedure.
9. T.O.C. = Total Organic Carbon

Table 5
IRM AOC-1 Confirmatory Soil Sample Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Parameter	Protection of Groundwater Restricted Use Soil Cleanup Objectives	**Restricted Residential Use Soil Cleanup Objectives**	Restricted Commercial Soil Cleanup Objectives	AOC-1-E-Wall 5 to 7 feet bgs Results	AOC-1-NE-Wall 5 to 7 feet bgs Results	AOC-1-Bottom-E 10.5 to 11 feet bgs Results	AOC-1-NW-Wall 6 to 10 feet bgs Results	AOC-1-Bottom-W 7 to 8 feet bgs Results	AOC-1-SE-Wall 6 to 8 feet bgs Results	AOC-1-SW-Wall 7 to 10 feet bgs Results	AOC-1-Bottom-Center 15 feet bgs. Results	AOC-1-Bottom-SW 15 feet bgs Results	AOC-1-Bottom-W 15 feet bgs Results	AOC-1-W-Wall 9 to 11 feet bgs Results
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)														
Carbon disulfide	NV	**NV**	NV	< 6.1	< 6.3	< 5.6	< 5.5	< 6.2	< 6	< 5.6	0.57J	< 5.6	< 6.5	< 6.1
Acetone	50	**100,000**	500,000	43	< 6.3	< 5.6	< 5.5	< 6.2	< 6	< 5.6	81	12	18	< 6.1
Methylene chloride	50	**100,000**	500,000	2.3J	2.4J	2.3J	2.3J	< 6.2	< 6	< 5.6	< 5.6	< 5.6	< 6.5	< 6.1
2-Butanone	NV	**NV**	NV	3.4J	< 6.3	< 5.6	< 5.5	< 6.2	< 6	< 5.6	< 5.6	< 5.6	< 6.5	< 6.1
Benzene	60	**4,800**	44,000	< 6.1	< 6.3	< 5.6	2.4J	< 6.2	< 6	4.3J	300J	6.3	< 6.5	< 6.1
Toluene	700	**100,000**	500,000	< 6.1	< 6.3	< 5.6	16	1.9J	< 6	84	3,100	88B	2.3J	2.3J
Ethylbenzene	1,000	**41,000**	390,000	< 6.1	< 6.3	< 5.6	5.1J	< 6.2	< 6	32	870	12	< 6.5	< 6.1
m&p-Xylene	1,600	**100,000**	500,000	< 6.1	< 6.3	< 5.6	32	< 6.2	< 6	180	6,800	78	< 6.5	< 6.1
o-Xylene	1,600	**100,000**	500,000	< 6.1	< 6.3	< 5.6	8.3	< 6.2	< 6	61	2,100	25	< 6.5	< 6.1
Isopropylbenzene	NV	**NV**	NV	< 6.1	< 6.3	< 5.6	< 5.5	< 6.2	< 6	< 5.6	28	< 5.6	< 6.5	< 6.1
n-Propylbenzene	3,900	**100,000**	500,000	< 6.1	< 6.3	< 5.6	1.5J	< 6.2	< 6	14	170	< 5.6	< 6.5	< 6.1
1,3,5-Trimethylbenzene	8,400	**52,000**	190,000	< 6.1	< 6.3	< 5.6	5.1J	< 6.2	< 6	45	1,100	4.1J	< 6.5	< 6.1
1,2,4-Trimethylbenzene	3,600	**52,000**	190,000	< 6.1	< 6.3	< 5.6	18	< 6.2	< 6	110	3,800	10	< 6.5	< 6.1
Naphthalene	12,000	**100,000**	500,000	< 6.1	< 6.3	< 5.6	2.4J	< 6.2	< 6	6.9	90	< 5.6	< 6.5	< 6.1
Total VOCs				48.7	2.4	2.3	93.1	1.9	<	537.2	18,439.6	235.4	20.3	2.3
Semi-Volatile Organic Compounds - EPA Method 8270 TCL (ug/kg)														
Naphthalene	12,000	**100,000**	500,000	< 410	< 430	< 370	< 400	< 410	< 390	< 370	130	< 370	< 430	< 410
Fluoranthene	100,000	**100,000**	500,000	< 410	110J	< 370	< 400	210J	< 390	< 370	< 380	< 370	110J	< 410
Pyrene	100,000	**100,000**	500,000	< 410	< 430	< 370	< 400	130J	< 390	< 370	< 380	< 370	87J	< 410
Benzo [a] anthracene	1,000	**1,000**	5,600	< 410	< 430	< 370	< 400	88J	< 390	< 370	< 380	< 370	< 430	< 410
Chrysene	1,000	**3,900**	56,000	< 410	< 430	< 370	< 400	120J	< 390	< 370	< 380	< 370	< 430	< 410
Benzo [b] fluoranthene	1,700	**1,000**	5,600	< 410	< 430	< 370	< 400	130J	< 390	< 370	< 380	< 370	< 430	< 410
Benzo [a] pyrene	22,000	**1,000**	1,000	< 410	< 430	< 370	< 400	89J	< 390	< 370	< 380	< 370	< 430	< 410
Benzo [g,h,i] perylene	1,000,000	**100,000**	500,000	< 410	< 430	< 370	< 400	91J	< 390	< 370	< 380	< 370	< 430	< 410
Total SVOCs				<	110	<	<	858	<	<	130	<	197	<

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Attachment C for list of all compounds included in analysis.
2. Analytical testing completed by Spectrum Analytical., Inc. located in Warwick, RI.
3. ug/kg = part per billion, mg/kg = part per million.
4. NV = no value.
5. "J" qualifier = indicates an estimated value due to either the compound being detected below the report limit, or an estimated concentration for tentatively identified compound.
6. "B" qualifier = compound was also detected in the associated Method Blank.
7. < 6.1 = compound was not detected above its respective reporting limit.
8. Shading indicates value exceeds Restricted Commercial Use Soil Cleanup Objectives.
9. **Bold** indicates value exceeds Restricted Residential Use Soil Cleanup Objectives.
10. Underline indicates value exceeds Protection of Groundwater Restricted Use Soil Cleanup Objectives.
11. Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Unrestricted Use and Restricted Use Soil Cleanup Objectives.

Table 6
IRM AOC-2 and AOC-3 Confirmatory Soil Sample Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Parameter	Protection of Groundwater Restricted Use Soil Cleanup Objectives	**Part 375 - Restricted Residential Use SCOs**	Restricted Com Soil Cleanup Objectives	**AOC-2** EXC-2-NE-WALL 8 to 10 feet bgs Results	EXC-2-NW-Wall 8 to 10 feet bgs Results	EXC-2-Bottom-N 14 to 15 feet bgs Results	EXC-2-Bottom-S 14 to 15 feet bgs Results	EXC-2-SW-Wall 8 to 10 feet bgs Results	EXC-2-S-Wall 8 to 10 feet bgs Results	EXC-2-E-Wall 8 to 10 feet bgs Results	EXC-2-SE-Wall 8 to 10 feet bgs Results	EXC-2-BOTT-NWALL 14 feet bgs Results	EXC-2-BOTT-SWWALL 15 feet bgs Results	EXC-2-BOTT-SEWALL 15 feet bgs Results	EXC-2-NWWALL-5 5 feet bgs Results
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)															
Acetone	50	**100,000**	500,000	< 6	< 3,700	7.9	< 5.8	< 5.3	< 6.1	5.2J	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
1,1,1-Trichloroethane	680	**100,000**	500,000	< 6	< 3,700	2.8J	1.4J	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
Tetrachloroethene	1300	**19,000**	150,000	< 6	< 3,700	1.6J	2.8J	2J	3J	< 5.5	1.9J	< 5.7	< 6.1	< 6.2	< 5.9
Trichloroethene	470	**21,000**	200,000	< 6	< 3,700	< 5.8	9.6	1.7J	2.7J	< 5.5	1.2J	< 5.7	< 6.1	< 6.2	< 5.9
Methylene chloride	50	**100,000**	500,000	< 6	< 3,700	< 5.8	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
Toluene	700	**100,000**	500,000	13	**400,000D**	2,500	< 5.8	< 5.3	5.4J	13	4.7J	< 5.7	2.9 J	2.7 J	< 5.9
Ethylbenzene	1,000	**41,000**	390,000	< 6	**81,000D**	750	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
m&p-Xylene	1,600	**100,000**	500,000	2.9J	**290,000D**	4,900	< 5.8	< 5.3	4.2J	3.4J	2.4J	< 5.7	< 6.1	14	< 5.9
o-Xylene	1,600	**100,000**	500,000	< 6	**110,000D**	2,300	< 5.8	< 5.3	1.5J	1.2J	< 6.1	< 5.7	2.6 J	23	< 5.9
Isopropylbenzene	NV	**NV**	NV	< 6	2,800J	35	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
n-Propylbenzene	3,900	**100,000**	500,000	< 6	2,000J	19	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
1,3,5-Trimethylbenzene	8,400	**52,000**	190,000	< 6	< 3,700	19	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
sec-Butylbenzene	11,000	**100,000**	500,000	< 6	< 3,700	< 5.8	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
1,2,4-Trimethylbenzene	3,600	**52,000**	190,000	< 6	1,500J	35	< 5.8	< 5.3	2.7J	< 5.5	2.1J	< 5.7	< 6.1	< 6.2	< 5.9
p-Isopropyltoluene	10,000 Note 11	**NV**	NV	< 6	< 3,700	< 5.8	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
n-Butylbenzene	12,000	**100,000**	NV	< 6	< 3,700	< 5.8	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
Naphthalene	12,000	**100,000**	500,000	< 6	< 3,700	< 5.8	< 5.8	< 5.3	< 6.1	< 5.5	< 6.1	< 5.7	< 6.1	< 6.2	< 5.9
Total VOCs				15.9	887,300	10570.3	13.8	3.7	19.5	22.8	12.3	0	5.5	39.7	0
Semi-Volatile Organic Compounds - EPA Method 8270 TCL (ug/kg)															
Total SVOCs				<	<	<	<	<	<	<	<	NT	NT	NT	NT

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Attachment C for list of all compounds included in analysis.
2. Analytical testing completed by Spectrum Analytical., Inc. located in Warwick, RI.
3. ug/kg = part per billion, mg/kg = part per million.
4. NV = no value.
5. "J" qualifier = indicates an estimated value due to either the compound being detected below the report limit, or an estimated concentration for tentatively identified compound.
6. "B" qualifier = compound was also detected in the associated Method Blank.
7. "D" qualifier = compound concentration was obtained from a secondary dilution analysis.
8. < 6 = compound was not detected above its respective reporting limit.
9. Shading indicates value exceeds Restricted Commercial Use Soil Cleanup Objectives.
10. **Bold** indicates value exceeds Restricted Residential Use Soil Cleanup Objectives.
11. NT = Not tested.
12. Underline indicates value exceeds Protection of Groundwater Restricted Use Soil Cleanup Objectives.
13. Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Unrestricted Use and Restricted Use Soil Cleanup Objectives.
14. Results shown for AOC-3-SWALL-1 are the higher of this sample or its respective duplicate.

Table 6
IRM AOC-2 and AOC-3 Confirmatory Soil Sample Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Parameter	Protection of Groundwater Restricted Use Soil Cleanup Objectives	Part 375 - Restricted Residential Use SCOs	Restricted Com Soil Cleanup Objectives	AOC-3																
				AOC-3-WWALL-1 12 feet bgs Results	AOC-3-WWALL-2 14 feet bgs Results	AOC-3-WWALL-3 10 feet bgs Results	AOC-3-NWALL-1 12 feet bgs Results	AOC-3-NWALL-2 14 feet bgs Results	AOC-3-SWALL-1 12 feet bgs Results	AOC-3-SWALL-2 12 feet bgs Results	AOC-3-EWALL-1 12 feet bgs Results	AOC-3-EWALL-2 12 feet bgs Results	AOC-3-BOTT-SW 15 feet bgs Results	AOC-3-BOTT-NW 15 feet bgs Results	AOC-3-BOTT-3 15 feet bgs Results	AOC-3-BOTT-4 15 feet bgs Results	AOC-3-BOTT-5 15 feet bgs Results	AOC-3-BOTT-6 15 feet bgs Results	AOC-3-EWALL-3 12 feet bgs Results	AOC-3-STOCK-S Results	AOC-3-STOCK-N Results
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)																				
Acetone	50	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	< 5.8	< 5.7
1,1,1-Trichloroethane	680	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	< 5.8	< 5.7
Tetrachloroethene	1300	**19,000**	150,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	< 5.8	< 5.7
Trichloroethene	470	**21,000**	200,000	< 5.6	< 420	< 5.7	11 J	< 5.4	3.1 J	< 6	3 J	< 6.2	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	8.4	< 5.7
Methylene chloride	50	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	5.4 B	< 5.9	5.6 BJ	< 6.2	5.7 BJ	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	< 5.8	< 5.7
Toluene	700	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	< 350	< 5.6	< 5.8	< 5.7
Ethylbenzene	1,000	**41,000**	390,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	87 J	< 60	56 J	< 5.6	< 5.8	< 5.7
m&p-Xylene	1,600	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	640	< 60	380	< 5.6	< 5.8	< 5.7
o-Xylene	1,600	**100,000**	500,000	< 5.6	170 J	< 5.7	86	< 5.4	15	< 6	< 6.2	< 6.2	< 6.3	< 6.8	340	290	140 J	7	< 5.8	< 5.7
Isopropylbenzene	NV	**NV**	NV	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	49 J	< 5.6	< 5.8	< 5.7
n-Propylbenzene	3,900	**100,000**	500,000	< 5.6	90 J	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	310 J	< 60	350	< 5.6	< 5.8	< 5.7
1,3,5-Trimethylbenzene	8,400	**52,000**	190,000	< 5.6	650	< 5.7	270	8.4	8.4	< 6	< 6.2	< 6.2	2.6 J	7.3	1400	980	1400	62	< 5.8	< 5.7
sec-Butylbenzene	11,000	**100,000**	500,000	< 5.6	< 420	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	< 60	71 J	< 5.6	< 5.8	< 5.7
1,2,4-Trimethylbenzene	3,600	**52,000**	190,000	< 5.6	400 J	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	3300	< 60	3500	11	< 5.8	< 5.7
p-Isopropyltoluene	10,000 Note 11	**NV**	NV	< 5.6	< 420	< 5.7	18	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	< 340	37 J	< 350	< 5.6	< 5.8	< 5.7
n-Butylbenzene	12,000	**100,000**	NV	< 5.6	93 J	< 5.7	20	< 5.4	< 5.9	< 6	< 6.2	< 6.2	< 6.3	< 6.8	170 J	44 J	230 J	5.7	< 5.8	< 5.7
Naphthalene	12,000	**100,000**	500,000	< 5.6	230 J	< 5.7	< 15	< 5.4	< 5.9	< 6	< 6.2	< 6.2	3.1 BJ	< 6.8	220 J	< 60	< 350	< 5.6	< 5.8	< 5.7
Total VOCs				0	1633	0	405	13.8	26.5	5.6	3	5.7	5.7	7.3	6467	1351	6176	85.7	8.4	0
Semi-Volatile Organic Compounds - EPA Method 8270 TCL (ug/kg)																				
Total SVOCs				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Attachment C for list of all compo
2. Analytical testing completed by Spectrum Analytical., Inc. located in Warwick, RI.
3. ug/kg = part per billion, mg/kg = part per million.
4. NV = no value.
5. "J" qualifier = indicates an estimated value due to either the compound being detected below the report limit, or an es
6. "B" qualifier = compound was also detected in the associated Method Blank.
7. "D" qualifier = compound concentration was obtained from a secondary dilution analysis.
8. < 6 = compound was not detected above its respective reporting limit.
9. Shading indicates value exceeds Restricted Commercial Use Soil Cleanup Objectives.
10. **Bold** indicates value exceeds Restricted Residential Use Soil Cleanup Objectives.
11. NT = Not tested.
12. Underline indicates value exceeds Protection of Groundwater Restricted Use Soil Cleanup Objectives.
13. Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Unrestricted Use and Restricted Use S
14. Results shown for AOC-3-SWALL-1 are the higher of this sample or its respective duplicate.

Table 7
IRM 6,000 Gallon UST Confirmatory Soil Sample Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Parameter	Protection of Groundwater Restricted Use Soil Cleanup Objectives	**Restricted Residential Use Soil Cleanup Objectives**	Restricted Commercial Soil Cleanup Objectives	UST-EXC-N-Wall 5 to 7 feet bgs Results	UST-EXC-S-Wall 5 to 7 feet bgs Results	UST-EXC-E-Wall 5 to 7 feet bgs Results	UST-EXC-W-Wall 5 to 7 feet bgs Results	UST-EXC-Bottom 9 to 9.5 feet bgs Results
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)								
Acetone	50	**100,000**	500,000	<	<	25	<	7.8
Toluene	700	**100,000**	500,000	<	<	1.6J	<	1.4J
1,3,5-Trimethylbenzene	8,400	**52,000**	190,000	<	<	<	<	6.8
1,2,4-Trimethylbenzene	3,600	**52,000**	190,000	<	<	<	<	15
Naphthalene	12,000	**100,000**	500,000	<	<	<	<	2.2J
Total VOCs				<	<	26.6	<	33.2
Semi-Volatile Organic Compounds - EPA Method 8270 TCL (ug/kg)								
Total SVOCs				<	<	<	<	<

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Attachment C for list of all compounds included in analysis.
2. Analytical testing completed by Spectrum Analytical., Inc. located in Warwick, RI.
3. ug/kg = part per billion, mg/kg = part per million.
4. NV = no value.
5. Shading indicates value exceeds Restricted Commercial Use Soil Cleanup Objectives.
6. **Bold** indicates value exceeds Restricted Residential Use Soil Cleanup Objectives.
7. Underline indicates value exceeds Protection of Groundwater Restricted Use Soil Cleanup Objectives.
8. Soil cleanup objectives (SCOs) are from NYSDEC Part 375, Subpart 375-6: Unrestricted Use and Restricted Use Soil Cleanup Objectives.

Table 8
IRM Excavation Groundwater Sample Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Parameter	Class GA Criteria	AOC-1-GW 11/09/2011 Result	EXC-2-GW 10/25/2011 Result	AOC-3-GW 08/14/2013 Result	AOC-3-GW-2 08/22/2013 Result	GW-AOC-3-NORTH 06/10/2014 Result
Volatile Organic Compounds - EPA Method 8260 TCL (ug/L)						
1,1-Dichloroethane	0.6	< 1	< 5	0.65 J	< 1	< 1
Acetone	50	< 1	< 25	< 5	5.2	5.9
1,1,1-Trichloroethane	5	4.9	2.6 J	2.7	0.66 J	< 1
Trichloroethene	5	18	3.5 J	6.9	9.9	2.7
Benzene	1	6.5	< 5	< 1	< 1	< 1
Toluene	5	51	950	2.2	15	3.3
Tetrachloroethene	5	2.3	<	0.79 J	0.78 J	< 1
Ethylbenzene	5	14	100	31	89	2.2
m,p-xylene	5	74	680	100	370	4.4
o-Xylene	5	41	300	29	110	2.5
Isopropylbenzene	5	1.1	6.4	6.2	30	0.82 J
n-propylbenzene	5	5	< 5	33	120 D	2.5
1,3,5-Trimethylbenzene	5	20	4 J	62	1,400 D	14
1,2,4-Trimethylbenzene	5	29	7.1	220 D	4,000 D	33
sec-butylbenzene	5	< 1	< 5	2.6	< 1	1.3
n-butylbenzene	5	2.5	< 5	5	< 1	1.3
4-Isopropyltoluene	5	< 1	< 1	< 1	< 1	2.9
Naphthalene	10	1.9	< 5	5.4	100	< 1
Total VOCs		271.2	2053.6	507.44	6,250.54	76.82
Semi-Volatile Organic Compounds - EPA Method 8270 Base Neutrals (ug/L)						
		NT	<	NT	NT	NT

Notes:
1. Compounds detected in one or more samples are presented on this table. Refer to Appendix C for list of all compounds included in analysis.
2. Analytical testing completed by Spectrum Analytical., Inc. located in Warwick, RI.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), June 1998.
4. ug/L = part per billion (ppb).
5. "J" qualifier = indicates an estimated value due to either the compound being detected below the report limit, or an estimated concentration.
6. "B" qualifier = compound was also detected in the associated Method Blank.
7. "D" qualifier = result shown is the product of a dilution analysis.
8. < 1 indicates compound was not detected above its repective reporting limit.
9. Shading indicates exceedence of Class GA Criteria.
10. NT = Not tested.

Table 9
Electron Donor Compound Injection Pilot Study
Groundwater Analytical Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Date	Class GA Criteria	EW-1.25 6/25/2013	Q	EW-1.25 10/16/2013	Q	EW-1.25 6/10/2014	Q	SP-32 10/3/2012	Q	SP-32 10/17/2013	Q	SP-32 6/10/2014	Q	SP-37 10/5/2012	Q	SP-37 10/17/2013	Q	SP-37 6/10/2014	Q	SP-38 10/4/2012	Q	SP-38 10/17/2013	Q	SP-38 6/10/2014	Q	SP-43 10/4/2012	Q	SP-43 10/17/2013	Q	SP-43 6/10/2014	Q	SP-45 10/4/2012	Q	SP-45 10/17/2013	Q	SP-45 6/10/2014	Q
Volatile Organic Compounds - EPA Method SW-846, 8260B (ug/L)																																					
Acetone	50	<		<		<		<		240	D	<		<		<		<		<		<		<		<		53		<		<		<		<	
Methylene Chloride	5	<		<		<		<		<		<		<		<		<		<		<		<		<		<		<		3.2	DJ	<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		<		<		<		1.3		<				<		<	
Chloromethane	NV	0.77	J	<		<		<		<		<		<		<		<		<		<		<		<		<		<				<		<	
1,1-Dichloroethane	5	4.1		4.1		2.9		<		<		<		<		<		<		<		<		<		<		<		<				<		<	
Vinyl chloride	2	4.6		5		2.4		<		<		<		<		<		<		<		<		<		<		<		<				<		<	
2-Butanone	50	<		<		<		<		45		<		<		<		<		<		<		<		<		84		<				<		<	
cis-1,2-Dichloroethene	5	31		32		23		<		26		11		1.8		7.3		0.99	J	<		1.5		1.2		<		5.4		3.9		6.8		1.1		1.9	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		2.4		<		<		<		<		<				<		<	
Tetrachloroethene	5	3.3		3.8		3.6		2.1		<		<		9.6		24		13		5		<		5.2		93		24		14		260	D	69		130	
Trichloroethene	5	51		59		41		120		3.4		6.4		13		20		7.2		17		7.8		19		5.2		2.6		<		13		3.6		6.4	
Total VOCs	2	94.77		103.9		72.9		122.1		314.4		17.4		24.4		51.3		27.2		24.4		9.3		25.4		98.2		170.3		17.9		283.0		73.7		138.3	
Field Parameters																																					
Temperature (Deg. C)	NV	13		13.5		10.4		13.2		16.5		13.1		13.5		17		11.9		13.1		15.2		11.6		14.1		18.4		13		14.6		17.8		16.5	
Specific Conductance (mS/cm)	NV	0.7		0.68		0.7		0.418		0.65		0.392		0.452		0.535		0.305		0.437		0.412		0.437		0.445		0.513		0.304		0.543		0.363		0.391	
Dissolved Oxygen (mg/L)	NV	0.05		0.18		0.06		4.92		0.18		0.12		0.28		0.2		0.58		3.25		2.88		4.65		1.48		0.22		0.23		1.07		5.21		3.02	
Oxygen Reduction Potential (mv)	NV	-88.5		-99.3		-91.2		50.3		-95.3		-21.9		-122.4		74.8		107.7		31.7		103.5		136		44.2		-39.3		149		-29.5		88.3		143.1	
pH (std. units)	NV	7.35		6.85		6.78		7.23		6.45		6.48		6.6		6.39		6.28		6.81		6.72		6.72		6.55		5.88		6.13		6.48		6.83		6.71	
Turbidity (NTUs)	NV	9.12		3.31		11.71		35		6.76		4.95		2.5		9.35		12.5		27.4		2.12		19.2		39.8		4.04		18		3.95		2.3		3.17	
Inorganics (ug/L)																																					
Iron	300	NS		1,000		14,000		NS		3,480		16,000		NS		61.7	B	900		<		<		1,500		NS		6,150		7,100		NS		32.1	B	170	J
Manganese	NV	NS		1,300		1,600		NS		24,600		19,000		NS		336		150		5,100		41.1	B	180		NS		5,510		1,600		NS		<		<	
Miscellaneous Water Quality Parameters																																					
Methane (ug/L)	NV	NS		1,000		170		NS		120		660		NS		26		2.5		<		20		1.1		NS		16		12		NS		14		1.1	
Ethane (ug/L)	NV	NS		<		<		NS		<		<		NS		<		<		NM		<		<		NS		2.4		<		NS		<		<	
Ethene (ug/L)	NV	NS		1.7		<		NS		1.7		<		NS		<		<		NM		<		<		NS		3.7		<		NS		<		<	
Total Organic Carbon (mg/L)	NV	NS		<		<		NS		51		<		NS		4.1	J	2.8	J	<		<		<		NS		80		<		NS		<		<	
Chloride (mg/L)	NV	NS		66	B	69		NS		5	B	3.1		NS		12	B	3.8		31		40	B	34		NS		6.3	B	2.2		NS		5.1	B	4.2	
Nitrate (mg/L)	NV	NS		<		<		NS		<		<		NS		4.8		5.2		4.7		1.4		3.3		NS		0.36		8.30		NS		6		5.2	
Nitrite (mg/L)	NV	NS		<		<		NS		<		<		NS		<		<						<		NS		<		0.042	J	NS		<		<	
Sulfate (mg/L)	NV	NS		7.6		7.4	B	NS		4.9	J	14	B	NS		36		24	B	23		11		13	B	NS		12		25	B	NS		39		33	B

Notes:
1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation;
   * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value
9. Shaded concentrations exceed Class GA criteria.

Table 10
SRI Analytical Testing Program Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Location	Sample Depth (ft bgs)	VOCs TCL Method 8260B	SVOCs Method 8270C BN	TAL Metals Method 3050/6010/7471	PCBs Method 8082	Pesticides Method 8081B	Natural Attenuation Parameters	VOCs Method TO-15
Surface Soil Samples								
SS-1	0-0.17	X	X	X	X	X		
SS-2	0-0.17	X	X	X	X	X		
SS-3	0-0.17	X	X	X	X	X		
SS-4	0-0.17	X	X	X	X	X		
Subsurface Soil Samples - Test Pits								
TP-11	8-10	X						
TP-16	10-11.5	X						
TP-17	8-10	X						
TP-18	2.3		X	X	X			
Subsurface Soil Samples - Soil Probes								
SP-30	10-12	X						
SP-31	8-10	X						
SP-32	10-12	X						
SP-33	2-4	X						
SP-34	4-6	X						
SP-35	14-16	X						
SP-36	6-8	X						
SP-37	2-4	X						
SP-37	12-14	X						
SP-38	6-8	X						
SP-39	4-6	X						
SP-40	2-4	X						
SP-41	12-14	X						
SP-42	6-8	X						
SP-43	12-14	X						
SP-44	2-4	X						
SP-45	4-6	X						
Groundwater Samples								
TP-10	NA	X						
TP-11	NA	X					X	X
TP-13	NA	X						
TP-15	NA	X					X	X
SP-32	NA	X						
SP-35	NA	X						
SP-37	NA	X						
SP-38	NA	X					X	X
SP-39	NA	X					X	X
SP-40	NA	X					X	X
SP-42	NA	X					X	X
SP-43	NA	X						
SP-45	NA	X						
SP-47	NA	X						
EW-2.5	NA						X	X
MW-1S	NA	X						
MW-1I	NA	X					X	X
MW-1D	NA	X					X	X
MW-4I	NA	X					X	X
MW-5I	NA	X					X	X
Soil Vapor Intrusion Samples								
DG-1IA-02152012	NA							X
DG-1SS-02152012	NA							X
DG-2IA-02152012	NA							X
DG-2SS-02152012	NA							X
DG-3IA-02152012	NA							X
DG-3SS-02152012	NA							X
DG-4IA-02162012	NA							X
DG-4SS02162012	NA							X
UG-1IA-02162012	NA							X
UG-1SS-02162012	NA							X
UG-2IA002232012	NA							X
UG-2SS-02232012	NA							X
UG-3BF-03142012	NA							X
UG-3FF-03142012	NA							X
UG-4IA-03142012	NA							X
UG-4SS-03142012	NA							X
UG-5IA-04022012	NA							X
UG-5SS-04022012	NA							X
BK-1AO-02152012	NA							X
BK-2AO-02162012	NA							X
BK-3AO-03142012	NA							X
BK-4AO-04022012	NA							X

Notes:
1. NA = not applicable.
2. ft bgs = feet below ground surface
3. VOCs = Volatile Organic Compounds
4. SVOCs = Semi-Volatile Organic Compounds
5. TCL = Total Compound List
6. TAL = Total Analyte List
7. PCB's = Polychlorinated Biphynels
8. DG = downgradient sample location
9. UG = upgradient sample location
10. IA = indoor air sample
11. SS = subslab air sample
12. BF = basement air sample
13. FF = first floor air sample
14. BK = background sample location
15. AO = ambient air sample

Table 11
SRI Test Pit Soil Sample Analytical Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Depth (ft bgs) Sample Date	Part 375 Unrestricted SCOs	Part 375 Residential SCOs	Part 375 Commercial SCOs	TP-11 8-10 9/25/2012	Q	TP-16 10-11.5 9/26/2012	Q	TP-17 8-10 9/26/2012	Q	TP-18 2.3 9/26/2012	Q
Volatile Organic Compounds - Method 8260 TCL (ug/kg)											
Trichloroethene	**470**	10,000	200,000	56				11		NT	
Semi-Volatile Organic Componds - EPA Method 8270 Base Neutrals (ug/kg)											
Bis (2-ethylhexyl) phthalate	**NV**	NV	NV	NT		NT		NT		110	J
Phenanthrene	**100,000**	100,000	500,000	NT		NT		NT		1,000	
PCB - EPA Method 8082 (ug/kg)											
Metals - EPA Method 6010/7471 (mg/kg)											
Aluminum	**NV**	NV	NV	NT		NT		NT		13,000	*
Antimony	**NV**	NV	NV	NT		NT		NT			
Arsenic	**13**	16	13	NT		NT		NT		**14.6**	
Barium	**350**	350	400	NT		NT		NT		153	*
Beryllium	**7.2**	14	590	NT		NT		NT		0.58	
Cadmium	**2.5**	2.5	9.3	NT		NT		NT		0.46	
Calcium	**NV**	NV	NV	NT		NT		NT		21,800	*J
Chromium	**30**	36	1,500	NT		NT		NT		21.3	*J
Cobalt	**NV**	NV	NV	NT		NT		NT		11.7	
Copper	**50**	270	270	NT		NT		NT		30	*J
Iron	**NV**	NV	NV	NT		NT		NT		28,800	
Lead	**63**	400	1,000	NT		NT		NT		23.5	*
Magnesium	**NV**	NV	NV	NT		NT		NT		4,740	*
Manganese	**1,600**	2,000	10,000	NT		NT		NT		1,060	
Mercury	**0.18**	0.81	2.8	NT		NT		NT		0.025	
Nickel	**30**	140	310	NT		NT		NT		24.6	*
Potassium	**NV**	NV	NV	NT		NT		NT		902	*
Selenium	**3.9**	36	1,500	NT		NT		NT		1.7	
Silver	**2**	36	1,500	NT		NT		NT			
Sodium	**NV**	NV	NV	NT		NT		NT			
Thallium	**NV**	NV	NV	NT		NT		NT		1.2	
Vanadium	**NV**	NV	NV	NT		NT		NT		18	*
Zinc	**109**	2,200	10,000	NT		NT		NT		102	*

NOTES: Notes:

1. Only compounds detected in one or more soil samples are presented in this table.
2. Blank indicates compound was not detected.
3. Analytical testing completed by Spectrum Analytical, Inc.
4. Q = laboratory qualifier. See Appendix F for qualifier definitions.
5. ug/kg = parts per billion, mg/kg = parts per million.
6. Part 375 Residential Soil Cleanup Objectives (SCOs) are from NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006.
7. NV = no value; NS = not specified; NT = not tested; ND = non detect.
8. **BOLD** Concentrations exceed their Part 375 Unrestricted SCOs.
9. Shaded concentrations exceed their respective Part 375 Residential SCOs.

Table 12
SRI Soil Probe Soil Sample Analytical Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location				SP-30		SP-31		SP-32		SP-33		SP-34		SP-35		SP-36		SP-37		SP-37		SP-38		SP-39		SP-40		SP-41		SP-42		SP-43		SP-44		SP-45	
Sample Depth (ft bgs)	Part 375	Part 375	Part 375	10-12		8-10		10-12		2-4		4-6		0.5-2		6-8		2-4		12-14		6-8		4-6		2-4		12-14		6-8		12-14		2-4		4-6	
Sample Date	Unrestricted	Residential	Commercial	9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/27/2012		9/28/2012		9/28/2012		9/28/2012		9/28/2012		10/1/2012		10/1/2012		10/1/2012	
	SCOs	SCOs	SCOs		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)																																					
Acetone	**50**	100,000	500,000											12	J									9	J					7.1	J						
cis-1,2-Dichloroethene	**250**	59,000	500,000																											3.5	J						
Methylene Chloride	**50**	51,000	500,000															2.4	J																		
Tetrachloroethene	**1,300**	5,500	150,000															4.3	J	5.7	J	22										60				19	
1,1,1-Trichloroethane	**680**	100,000	500,000																			1.7	J														
Trichloroethene	**470**	10,000	200,000																	2.4	J	31								120						20	

NOTES: 1. Only compounds detected in on Notes:
2. Blank indicates compound was not detected.
3. Analytical testing completed by Spectrum Analytical, Inc.
4. Results presented for SP-33, 2-4 ft is the higher of this sample and its respective duplicate.
5. Q = laboratory qualifier. See Appendix F for qualifier definitions.
6. ug/kg = parts per billion, mg/kg = parts per million.
7. Part 375 Residential Soil Cleanup Objectives (SCOs) are from NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006.
8. NV = no value; NS = not specified; NT = not tested; ND = non detect.
9. **BOLD** concentrations exceed their Part 375 Unrestricted SCOs.
10. Shaded concentrations exceed their respective Part 375 Residential SCOs.

Table 13
SRI Surface Soil Sample Analytical Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location Sample Depth (ft bgs) Sample Date	Part 375 Unrestricted SCOs	Part 375 Residential SCOs	Part 375 Commercial SCOs	SS-1 0-2" 9/27/2012	Q	SS-2 0-2" 9/27/2012	Q	SS-3 0-2" 9/27/2012	Q	SS-4 0-2" 9/27/2012	Q
Volatile Organic Compounds - EPA Method 8260 TCL (ug/kg)											
Semi-Volatile Organic Compounds - EPA Method 8270 Base Neutrals (ug/kg)											
Benzo (a) anthracene	**1,000**	1,000	5,600			250	J	370			
Benzo (a) pyrene	**1,000**	1,000	1,000			250	J	360			
Benzo (b) fluoranthene	**1,000**	1,000	5,600			400		550		110	J
Benzo (g,h,i) perylene	**100,000**	100,000	500,000			200	J	300	J		
Benzo (k) fluoranthene	**800**	1,000	56,000			150	J	230	J		
Bis (2-ethylhexyl) phthalate	**NV**	NV	NV	82	J	120	J	140	J	170	J
Butylbenzylphthalate	**NV**	NV	NV			530					
Chrysene	**1,000**	1,000	56,000			310	J	490		93	J
Dibenz (a,h) anthracene	**330**	330	560					75	J		
Fluoranthene	**100,000**	100,000	500,000			660		820		150	J
Indeno (1,2,3-cd) pyrene	**500**	500	5,600			200	J	280	J		
Phenanthrene	**100,000**	100,000	500,000			420		330			
Pyrene	**100,000**	100,000	500,000			490		670		120	J
PCBs - EPA Method 8082 (ug/kg)											
Pesticides - EPA Method 8081 (ug/kg)											
Metals - EPA Method 6010/7471 (mg/kg)											
Aluminum	**NV**	NV	NV	6,000		8,360		5,990		14,200	
Arsenic	**13**	16	16	6.3		7.8		5.6		9.5	
Barium	**350**	350	400	52.8	EJ	92.8	EJ	59.7	EJ	165	EJ
Beryllium	**7.2**	14	590	0.25	B	0.29		0.2	B	0.61	
Cadmium	**2.5**	2.5	9.3	0.24	B	0.44		0.44		1.1	
Calcium	**NV**	NV	NV	34,100	*	14,700		19,000		2,970	
Chromium	**30**	36	1,500	14.4	EJ	14.8	J	10.3	J	22.7	J
Cobalt	**NV**	NV	NV	5.1	EJ	6.6	EJ	4.8	EJ	10.3	EJ
Copper	**50**	270	270	26.2		37.9		24.3		29.3	
Iron	**NV**	NV	NV	13,700	EJ	18,400	EJ	15,200	EJ	24,300	EJ
Lead	**63**	400	1,000	48.7	NEJ	26.1	EJ	14.1	EJ	20.8	EJ
Magnesium	**NV**	NV	NV	5,540	EJ	5,510	EJ	5,300	EJ	3,680	EJ
Manganese	**1,600**	2,000	10,000	510	EJ	606	EJ	429	EJ	591	EJ
Mercury	**0.18**	0.81	2.8	0.08		0.13		0.0069	B	0.15	
Nickel	**30**	140	310	12.3	EJ	17.8	EJ	13.3	EJ	24.3	EJ
Potassium	**NV**	NV	NV	465	EJ	816	J	643	J	1,250	J
Selenium	**3.9**	36	1,500	2.1		2.7		2		3.6	
Sodium	**NV**	NV	NV								
Vanadium	**NV**	NV	NV	7.8	EJ	10.9	J	8.2	J	20.6	J
Zinc	**109**	2,200	10,000	80.9	EJ	**156**	EJ	107	EJ	**255**	EJ

NOTES:
1. Only compounds detected in one or more soil sample Notes:
2. Blank indicates compound was not detected.
3. Analytical testing completed by Spectrum Analytical, Inc.
4. Results presented for SS-2 are the higher of this sample and its respective duplicate.
5. Q = laboratory qualifier. See Appendix F for qualifier definitions.
6. ug/kg = parts per billion, mg/kg = parts per million.
7. Part 375 Residential Soil Cleanup Objectives (SCOs) are from NYCRR Subpart 375-6, Remedial Program Soil Cleanup Objectives, dated December 14, 2006.
8. NV = no value; NS = not specified; NT = not tested; ND = non detect.
9. **BOLD** concentrations exceed their Part 375 Unrestricted SCOs.
10. Shaded concentrations exceed their Part 375 Residential SCOs.

Table 14
SRI Groundwater Sample Analytical Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Sample Location		TP-10		TP-11		TP-13		TP-15		SP-32		SP-35		SP-37		SP-38		SP-39		SP-40		SP-42		SP-43		SP-45		SP-47		MW-1S		MW-1I		MW-1D		MW-4I		MW-5I	
Sample Depth (ft bgs)	NYSDEC																																				
Sample Date	Class GA Criteria	10/4/2012		10/4/2012		10/4/2012		10/4/2012		10/3/2012		10/4/2012		10/5/2012		10/4/2012		10/4/2012		10/5/2012		10/5/2012		10/4/2012		10/4/2012		10/4/2012		10/31/2012		10/5/2012		10/5/2012		10/31/2012		10/31/2012	
			Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q		Q
Volatile Organic Compounds - EPA Method 8260 TCL (ug/L)																																					
1,1-Dichloroethane	**5**																					2.1								0.66	J	2.6						
1,1-Dichloroethene	**5**					0.54	J																															
cis-1,2-Dichloroethene	**5**			**22**										1.8				2.3				1.6				**6.8**	D			1		3.1				0.62	J		
trans-1,2-Dichloroethene	**5**																					1.3																
Methylene Chloride	**5**																									3.2	DJ											
Tetrachloroethene	**5**	2.3		1.1		2.6				2.1				**9.6**		5		**79**		4.1		0.74	J	**93**		**260**	D							0.65	J				
1,1,1-Trichloroethane	**5**	4.8				**5.4**										2.4		2		3.3																		
Trichloroethene	**5**	**12**		**110**						**120**		4.9		**13**		**17**		**60**		**19**		**8.7**		**5.2**		**13**										1.2		0.75	J
Vinyl chloride	**2**													0.6	J																							

Notes:

1. Compounds detected in one or more sample are presented on this table. Refer to Appendix C for list of all compounds included in analysis.
2. Analytical testing completed by Spectrum Analytical, Inc.
3. NYSDEC Groundwater Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, errata January 1999 and amended April 2000 (Class GA).
4. ug/L = part per billion (ppb).
5. Blank indicates compound was not detected above method detection limits.
6. "B" qualifier = Analyte detected in the associated Method Blank.
6. J = laboratory qualifier. See Appendix F for qualifier definitions.
7. Results presented for SP-38 is the higher of this sample and its respective duplicate.
8. **Bold** and shaded concentrations exceed their Class GA criteria.

Table 15
SRI Soil Vapor Intrusion Air Analytical Testing Results Summary
Revised SRI/IRM/AA Report
Former Signore Facility
Ellicottville, New York
BCP Site No. C905034

Associated Background	Samples Associated with Background-1							Samples Associated with Background-2					No Background Sample		Samples Associated with Background-3				Samples Associated with Background-4			Samples Associated with Background-4		
Property Address	House 6		House 8		House 7		Background-1	House 9		House 5		Background-2	House 4		House 2		House 3				Background-3	House 1	41 Jefferson	Background-4
Sample ID	DG-1IA-02152012	DG-1SS-02152012	DG-2IA-02152012	DG-2SS-02152012	DG-3IA-02152012	DG-3SS-02152012	BK-1AO-02152012	DG-4IA-02162012	DG-4SS-02162012	UG-1IA-02162012	UG-1SS-02162012	BK-2AO-02162012	UG-2IA-02232012	UG-2SS-02232012	UG-3BF-03142012	UG-3FF-03142012	UG-4IA-03142012	UF-4SS-03142012	UG-4IA-04022012	UF-4SS-04022012	BK-3AO-03142012	UG-5IA-04022012	UG-5SS-04022012	BK-3AO-04022012
Volatile Organic Compounds via USEPA Method TO-15 (ug/m^3)																								
1,1,1-Trichloroethane	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	11	<1.1	<1.1	<1.1	<1.1	<1.1	0.89 J	0.89 J	<1.1	1.1	<1.1	1.2	<1.1	<1.1	<1.1	<1.1
1,1-Dichloroethene	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	0.60 J	0.6 NJ	0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
1,1,2-TrifluoroTrichloroethane											1.2J	1.2 J			1.7	1.7	1.6	1.5 J			1.6			
1,2,4-Trimethylbenzene				1.2					1.3		1.3			0.75 J	4.5		0.75 J	0.9 J			0.85 J			
1,2-Dichloro-1,1,2,2-tetrafluoroethane															1.1 J	1.1 J								
1,2-Dichloroethane				1.2 NJ		1.4			1.6		1.6			1.1	0.7 J	0.7 NJ				0.41 J				
1,3,5-Trimethylbenzene		1.5	0.80 J	1.7			0.75 J	3.4	2.1	1.2	1.9	0.95 J	0.55 J	1.7	12	3.7	0.95 J	1.1		4.5	1.2	2.4	1.6	
1,3-butadiene																								
1,3-Dichlorobenzene																								
1,4-Dichlorobenzene											1.6			1.5										
1,4-Dioxane										0.55 J					0.7 J	1.3								
2-Butanone (MEK)	0.87	2.6	4.9	8.4	1.2	11	1.2	3.4	11	1.9	12	1.1	18	18	2.3	2.1	1.6	3.1		5.5	1.7	1.5	8.9	0.75
4-ethyltoluene		1.3		1.6		1.7		3.6	2.1	1.2	1.9	0.90 J	0.55 J	1.6	15	4.4	0.95 J	1.0		2.6 J	1.2			
4-Methyl-2-Pentanone		0.87 J				12 J			15		15		0.92 J			1.0 NJ	0.79 J	0.92		5.7 NJ				
Acetone		95	16	55		58		11	59	23	88		1,000	730	64	29		91	5.0	90			53	19
Allyl chloride																								
Benzene	0.75	0.78	0.97	1.3	0.84	1.3	0.91	3.4	1.9	1.1	2.0	0.94	0.78	2.3	0.88	0.97	1.0	1.2	0.39 J	1.1	1.4	2.4	6.9	0.49 J
Bromomethane															0.71 J	0.7 J	0.59 J							
Carbon disulfide											1.7			0.44 J	0.63	0.63	0.51 NJ			0.44 J			4.8	
Carbon tetrachloride	<0.26	<1.3	<0.26	<1.3	<0.26	<1.3	<0.26	<0.26	1.1 J	0.96	1.1 J	1.1	<0.26	<1.3	1.5	1.4	1.3	1.3	<0.26	<1.3	1.3	<0.26	0.77 NJ	<0.26
Chloroethane									1.0						0.4									
Chloromethane	1.4	0.57	1.8	0.99	1.2	0.97	1.2			2.1	1.3	1.3				1.8	2.1		0.94		1.6			0.97
cis-1,2-Dichloroethene	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	0.60 J	<0.81	<0.81	<0.81	0.60 J	0.69 J	<0.81	<0.81	<0.81	<0.81	0.85	<0.81	<0.81	<0.81
Cyclohexane								1.9			1.8		0.73	2.1										
Ethylbenzene		0.79 J	0.66 NJ	3.5		4.0		2.2	4.9	0.97	4.3		41	47	19	5.8		4.5		17		2 NJ	4 NJ	0.84 NJ
Freon 11	1.4	1.3	1.4	1.3	1.8	1.4	1.4	1.7	1.4	1.7	1.7	1.7	1.3	1.3	2.2 J	2.3 J	2.2 J	2.1	1.5	1.1	2.3	4.1	2.9	1.3
Freon 113											1 J	1 J			1.7	1.7	1.6	1 J			1.6			
Freon 114															1 J	1 J								
Freon 12	2.5	2.3	2.4	2.4	2.5	2.5	2.5	2.6	2.7	3.0	2.9	2.8	2.4	2.5	3.3	3.4	3.3	3.4	2.7	2.9	3.3	2.8	3.1	2.9
Hexachlorobutadiene															2.2 NJ	2.3 NJ	1.7 J	2.3			2 J			
Hexane		2.1						13		2.4			24	19				11					46	
Isopropanol						7.8	10						9.0								11			
m&p-Xylene				10		11		8.8	14		12		87	98	74	22	1.5 J	9.2		36	2.3	7.3	12	1.9
Methylene chloride		2.6		1.4		1.4			1.4		1.5	0.64 J			**320**	**150**								
n-Heptane		2.9	2.5 NJ											4.6	2.1 J	1.5 J		6.4 J		9.6	1.2 J		48	
o-Xylene		1.3	0.75 J	3.2		3.5		3.5	4.3	1.0	3.8	0.71 J	13.0	17	15	4.7	0.79 J	2.3		5.3	1.0	2.2	2.9	
Styrene				3.8		4.5			5.4		4.8			4.9		0.78 NJ				2.1			2.9	
Tetrachloroethene	<1.4	3.4	<1.4	<1.4	<1.4	1.6	<1.4	<1.4	1.9	<1.4	1.9	1.8	1.1 J	2.8	7.7	4.1	1.2 J	**660**	<1.4	7.9	12	0.76 J	0.76 J	<1.4
Tetrahydrofuran				5.4					5.6		5.2													
Toluene	1.0	5.9	18	9.9	1.3	11	1.1	17	14 B	6.2 B	12 B		130	130	9.7	4.8	1.3	9.3	0.92	63	2.0	14	14	2.1
trans-1,2-Dichloroethene															0.64 NJ	0.64 NJ		0.6 NJ						
Vinyl acetate								0.72 J																
Trichloroethene	<0.22	<1.1	<0.22	<1.1	<0.22	<1.1	<0.22	<0.22	1.3	<0.22	<1.1	<0.22	<0.22	<1.1	<0.22	0.82	<0.22	<1.7	<0.22	<1.1	<0.22	<0.22	<1.1	<0.22
Vinyl chloride	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.1	<0.52	<0.10	<0.52	<0.52	0.42 NJ	0.42 NJ	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52	<0.52

Notes
1. Compounds detected in one or more samples or those assigned to the NYSDOH soil vapor intrusion decision matrices are presented on this table.
2. Analytical testing completed by Enalytic, LLC laboratory in Syracuse, New York.
3. Analytical results were compared to the matrices in the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in New York State, dated October 2006.
4. Samples with IA designation are indoor air samples, SS are sub-slab samples, BK are background samples, BF are basement floor samples, and FF are first floor samples.
5. ug/m^3 = microgram per cubic meter.
6. Samples collected were for an approximate 24-hour sample duration.
7. Green shading indicates comounds are assigned to the NYSDOH soil vapor intrusion guidance Matrix 1 and Yellow shading indicates comounds are assigned Matrix 2.
8. J = estimated concentration detected less than the practical qualification limit (PQL).
9. B = compound was detected in the method blank.
10. NJ = The detection is tenative and estimated in value. There is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
11. Bold indicates compound exceeds NYSDOH soil vapor intrusion guidance matrices or indoor air guidance values.

TABLE 17
State Superfund Site Groundwater Analytical Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	EW-1.25 / EW-1.25R																		
		4/23/09	10/22/09	6/3/10	4/14/11	10/14/11	5/9/12	10/31/12	6/25/13	10/16/13	6/10/14	10/14/14	6/4/15	10/21/15	6/15/16	10/25/16	7/13/17	6/21/18	6/14/19	9/17/21
Volatile Organic Compounds - EPA Method 8260 TCL (ug/L)																				
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	3.8	2.3 J	<1.5	<1.5	<5.0	6.8	<
2-Butanone	50	<	<	<	<	4.2J	< 5	< 5	< 5	< 5	< 5	< 2	<2	<2	<2	<2	<2	<5.0	<	<
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Chloromethane	NV	<	<	<	<	<	< 1	< 1	0.77J	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	0.88 J	<
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1		<
Benzene	1	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	0.18 J	<
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Carbon disulfide	NV	<	<	1.4	<	1.2	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	1.8 J	<1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT	NT	<
Vinyl Chloride	2	9.7	9.1	8.4	6.3	6	3.8	16	4.6	5	2.4	4.7	2.6	3.3	3.2	6.6	<1	<1	<	0.17 J
1,1-Dichloroethene	5*	<	0.88	0.85	.86J	<	< 1	1.4	< 1	< 1	< 1	0.34 J	0.25 J	0.36 J	0.24 J	0.48 J	0.39 J	<1	<	<
1,1-Dichloroethane	5	8.6	8.7	6.0	6.1	6.7	4.8	5.9	4.1	4.1	2.9	3.8	3	4.2	2.9	3.9	3.0	<1	1.1 J	1.2 J
trans-1, 2-Dichloroethene	5	<	0.92	0.66	.91J	.81J	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	0.79 J	<1	<1	<	<
cis-1,2-Dichloroethene	5	60	69	39	45	44	32	98	31	32	23	32	29	44	28	98	57	<1	2.1 J	2.5
1,1,1-Trichloroethane	5	1.5	0.82	0.65	.78J	.64J	< 1	2	< 1	< 1	< 1	0.80 J	<1	<1	<1	0.70 J	<1	<1	<	<
Trichloroethene	5	88	90	73	56	90	59	1.7	51	59	41	54	47	58	47	0.27 J	35	<1	<	<
Tetrachloroethene	5	7.5	5.6	5.6	4.2	8.3	5.9	< 1	3.3	3.8	3.6	5.0	3.1	1.8	3.1	<1	0.73	<1	<	<
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	<1	<	<
Total VOCs		175.3	185.0	135.6	120.15	161.85	105.50	125.00	94.77	103.90	72.90	100.64	84.95	115.46	86.74	110.74	97.92		11.06	3.87

Parameter	Class GA Criteria	MW-4S																		
		4/23/09	10/22/09	6/2/10	4/14/11	10/13/11	5/10/12	10/31/12	6/25/13	10/15/13	6/6/14	10/15/14	6/3/15	10/21/15	6/15/16	10/25/16	7/12/17	6/20/18	6/11/19	9/15/21
Volatile Organic Compounds - EPA Method 8260 TCL (ug/L)																				
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	2.3 J	<	<	<	< 5	3.0 J	<
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	<2	<2	<2	<2	<2	< 5	<	<
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
Chloromethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	1.2 J	<
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
Carbon Disulfide	NV	<	<	1.3	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT	<	<
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
1,1,1-Trichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	< 1	<	<
Trichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	< 1	<	<
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	0.36 J	0.22 J	0.32 J	0.18 J	<1	<1	< 1	<	0.18 J
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1	<	<
Total VOCs				1.3								0.36	0.22	2.62	0.18				4.20	0.18

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Alpha Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb).
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for IRM-1 for the September 2021 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high. J = estimated concentration. L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

TABLE 17
State Superfund Site Groundwater Analytical Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	EW-1.5																		
		4/23/09	10/22/09	6/2/10	4/14/11	10/14/11	5/9/12	10/31/12	6/25/13	10/16/13	6/9/14	10/14/14	6/2/15	10/21/15	6/14/16	10/25/16	7/11/17	6/19/18	6/13/19	9/15/21
Volatile Organic Compounds - EPA Method 8260																				
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	1.5 J	< 1.5	< 1.5	< 1.5	<5.0	3.0 J	<
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	<5.0	<	<
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Chloromethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Benzene	1	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Carbon disulfide	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT	<	<
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
cis-1,2-Dichloroethene	5	2.1	4.6	2.2	3.3	1.7	2.1	2.9	1.3	< 1	1.6	2.7	2.0 J	2.1 J	1.6 J	1.2 J	1.3 J	<1	<	<
1,1,1-Trichloroethane	5	4.1	2.7	1.9	2.6	1.3	1.7	< 1	1.2	< 1	< 1	1.4 J	1.2 J	1.2 J	<1	0.90 J	1.2 J	<1	<	<
Trichloroethene	5	18	20	14	19	9.5	13.0	9.0	8.4	3.9	10	13	13	11	6.4	10	10	<1	<	<
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	0.22 J	0.20 J	0.22 J	<1	0.24 J	0.23 J	<1	<	<
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	<1	<	<
Total VOCs		24.2	27.3	18.1	24.9	12.5	16.8	11.9	10.9	3.9	11.6	17.32	16.30	16.02	8.00	12.34	12.73		3.00	

Parameter	Class GA Criteria	MW-5S																		
		4/23/09	10/22/09	6/3/10	4/14/11	10/13/11	5/9/12	10/31/12	6/25/13	10/15/13	6/6/14	10/14/14	6/2/15	10/22/15	6/15/16	10/24/16	7/12/17	6/20/18	6/11/19	9/16/21
Volatile Organic Compounds - EPA Method 8260																				
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	<	<
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	4 J	3.4 J	<1.5	<	< 5	1.6 J	<
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	<2	< 5	<	<
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	<	<
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	<	<
Chloromethane	NV	<	<	<	<	<	< 1	< 1	0.99J	< 1	< 1	< 1	< 1	< 1	1.2 J	<1	<1	< 1	<	<
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	<	<
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	<	<
Carbon Disulfide	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT	<	<
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	<	<
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	<	<
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	<	<
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	<	<
cis-1,2-Dichloroethene	5	<	<	<	.72J	<	0.9J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	< 1	0.75 J	<
1,1,1-Trichloroethane	5	3.4	3.1	1.7	.61J	2.9	0.59J	< 1	0.52J	2.0	< 1	0.94 J	<1	<1	<1	<1	<1	< 1	<	<
Trichloroethene	5	30.0	22.0	14.0	12.0	15.0	17.0	3.1	6.9	8.1	2.7	4.0	0.75	1.60	2.70	0.72	<1	4.3	3.4	1.7
Tetrachloroethene	5	5.6	3.3	2.2	13.0	4.4	9.5	2.6	3.5	3.9	4.6	3.7	3.8	5.8	4.9	3.8	<1	6.1 CH	4.8	3.6
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1	<	<
Total VOCs		39.0	28.4	17.9	26.3	22.3	27.7	5.7	11.9	14.0	7.3	8.64	4.55	11.40	12.20	4.52		10.40	10.55	5.30

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Alpha Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb).
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for IRM-1 for the September 2021 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high. J = estimated concentration. L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

TABLE 17
State Superfund Site Groundwater Analytical Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	EW-2.5																	
		4/23/09	10/22/09	6/2/10	4/13/11	10/13/11	5/9/12	11/1/12	6/26/13	10/17/13	6/9/14	10/15/14	6/2/15	10/21/15	6/14/16	10/24/16	7/11/17	6/19/18	6/13/19	9/15/21
Volatile Organic Compounds - EPA Method 8260																				
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	2.4 J	1.7 J	<1.5	<1.5	<5.0	2.3 J	<
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	<5.0	<	<
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Chloromethane	NV	<	<	<	<	<	< 1	< 1	1.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Benzene	1	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Carbon disulfide	NV	<	<	<	0.94 J	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	NT	<	<
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
1,1,1-Trichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Trichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1	<	<
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1	<	<
Naphthalene	10	<	<	<	1.3	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	<1	<	<
Total VOCs					2.2				1.4					2.4	1.7				2.30	

Parameter	Class GA Criteria	MW-9I																		
		4/23/09	10/22/09	6/2/10	4/14/11	10/13/11	5/9/12	11/1/12	6/25/13	10/15/13	6/9/14	10/15/14	6/3/15	10/22/15	6/14/16	10/24/16	7/11/17	6/20/18	6/13/19	9/15/21
Volatile Organic Compounds - EPA Method 8260																				
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	2.7 J	1.6 J	<1.5	<1.5	< 5	1.9 J	<
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 5	<	<
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Chloromethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Carbon Disulfide	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT	<	<
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
1,1,1-Trichloroethane	5	2.2	1.6	0.9	1.4	1.4	0.89J	1.3	0.84J	< 1	< 1	0.85 J	0.72 J	0.73 J	<1	<1	<1	< 1	<	<
Trichloroethene	5	4.6	4.5	2.9	3.6	3.7	2.7	3.1	2.4	3.4	2.3	3.0	2.7	3.0	1.5	2.4	2.4	3.2	2.2	2.2
Tetrachloroethene	5	1.0	0.86	0.6	1.0	0.8	< 1	< 1	< 1	< 1	0.99J	0.82	0.72	0.96	0.34 J	0.71	0.73	1.1 CH	0.7	0.73
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1	<	<
Total VOCs		7.8	7.0	4.4	6.0	5.9	3.6	4.4	3.2	3.4	3.29	4.67	4.27	7.39	3.44	3.11	3.13	4.30	4.80	2.93

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Alpha Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb).
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for IRM-1 for the September 2021 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high. J = estimated concentration. L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

TABLE 17
State Superfund Site Groundwater Analytical Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	EW-4.5																		
		4/23/09	10/22/09	6/3/10	4/13/11	10/14/11	5/10/12	11/1/12	6/26/13	10/16/13	6/9/14	10/14/14	6/2/15	10/21/15	6/14/16	10/24/16	7/11/17	6/19/18	6/11/19	9/15/21
Volatile Organic Compounds - EPA Method 8260																				
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<	4.1 J	<1.5	<1.5	< 5	3 J	<
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 5	<	<
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Chloromethane	NV	<	<	<	<	<	< 1	< 1	2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.73 J	<
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Benzene	1	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Carbon disulfide	NV	<	<	<	.63J	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	0.83J	< 1	< 1	NT	NT	NT	NT	NT	NT	NT	<	<
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
cis-1,2-Dichloroethene	5	<	0.72	<	1.2	.51J	0.61J	< 1	0.76J	< 1	< 1	< 1	< 1	< 1	< 1	0.81 J	<1	<1	<	<
1,1,1-Trichloroethane	5	2.5	1.3	0.97	1.9	1.3	1.2	1.2	1.1	< 1	< 1	0.76 J	0.77 J	<1	<1	<1	<1	<1	<	<
Trichloroethene	5	8.0	7.9	5.5	10	6.9	7.6	7.0	6.8	5.8	5.0	5.4	5.4	3.9	4.6	4.6	1.6	1.1	5	2.4
Tetrachloroethene	5	2.0	1.7	1.1	2.5	1.5	1.5	1.6	1.6	1.4	1.7	1.5	1.7	1.2	1.3	1.6	0.76	< 1	1.50	0.78
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1	<	<
Total VOCs		12.5	11.6	7.6	16.2	10.2	10.9	9.8	13.6	7.2	6.7	7.66	7.86	5.10	10.00	7.01	2.36	1.10	10.23	3.18

Parameter	Class GA Criteria	IRM-1																		
		4/23/09	10/22/09	6/3/10	4/13/11	10/14/11	5/10/12	11/1/12	6/26/13	10/16/13	6/6/14	10/14/14	6/2/15	10/21/15	6/14/16	10/24/16	7/11/17	6/19/18	6/12/19	9/16/21
Volatile Organic Compounds - EPA Method 8260																				
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<	3.0 J	<1.5	<1.5	< 5	2.1 J	<
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 5	<	<
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Chloromethane	NV	<	<	<	<	<	< 1	< 1	1.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Carbon Disulfide	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	0.66J	< 1	< 1	NT	NT	NT	NT	NT	NT	NT	<	<
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
1,1,1-Trichloroethane	5	<	<	<	0.54J	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Trichloroethene	5	<	<	<	0.69J	.52J	< 1	< 1	0.52J	< 1	< 1	0.34 J	0.35 J	0.38 J	0.32 J	0.36 J	0.33 J	< 1	0.35 J	0.24 J
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.25 J	<1	0.23 J	0.19 J	< 1	0.2 J	<
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1	<	<
Total VOCs					1.23	0.52			2.58			0.34	0.35	0.63	3.32	0.59	0.52		2.65	0.24

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Alpha Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb).
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for IRM-1 for the September 2021 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high. J = estimated concentration. L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

TABLE 17
State Superfund Site Groundwater Analytical Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	MW-1I																		
		4/23/09	10/22/09	6/2/10	4/14/11	10/14/11	5/9/12	10/5/12	6/25/13	10/15/13	6/9/14	10/15/14	6/2/15	10/22/15	6/14/16	10/25/16	7/11/17	6/20/18	6/13/19	9/15/21
Volatile Organic Compounds - EPA Method 8260																				
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<.1.5	<.1.5	<.1.5	1.9 J	<5.0	4.5 J	<
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	<5.0	<	<
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	1.4	<
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	0.26 J	<
Chloromethane	NV	<	<	0.62	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	0.85 J	<
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Benzene	1	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Carbon disulfide	NV	<	<	<	<	1.1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT	<	<
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.53 J	<1	<1	<	<
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
1,1-Dichloroethane	5	4.7	4.7	3.5	3.4	3.8	2.8	2.6	2.0	2.1	1.6	2.3 J	1.9 J	2.5	1.7 J	1.2 J	<1	1.1 L2	<	1.6 J
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
cis-1,2-Dichloroethene	5	4.2	5.7	2.2	2.5	2.2	1.2	3.1	2.9	1.8	< 1	1.8 J	0.87 J	0.80 J	1.6 J	7.1	<1	3.3	<	0.70 J
1,1,1-Trichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<1	<	<
Trichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	2.8	2	<1	3	11	<1	15	<	<
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	2.4	1.3	<1	1.9	7.1	<1	11.6 CH	<	<
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	<1	<	<
Total VOCs		8.9	10.4	6.3	5.9	7.1	4.0	5.7	4.9	3.9	1.6	9.0	6.1	3.3	8.2	26.9	1.9	31.0	7.01	2.30

Parameter	Class GA Criteria	IRM-2I																		
		4/23/09	10/22/09	6/3/10	4/13/11	10/14/11	5/10/12	11/1/12	6/26/13	10/16/13	6/6/14	10/14/14	6/2/15	10/21/15	6/14/16	10/24/16	7/11/17	6/19/18	6/12/19	9/16/21
Volatile Organic Compounds - EPA Method 8260																				
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<1.5	2.9 J	<1.5	<1.5	< 5	2.7 J	<
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	< 2	< 2	< 2	< 2	< 2	< 5	<	<
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Chloromethane	NV	<	<	0.56	<	<	< 1	< 1	0.59J	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Carbon Disulfide	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT	<	<
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
1,1,1-Trichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	<	<
Trichloroethene	5	<	0.89	0.85	.88J	.86J	0.74J	0.60J	0.72J	< 1	< 1	0.60	0.60	0.63	0.59	0.59	0.58	< 1	0.56	0.44 J
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	0.20 J	<1	0.28 J	<1	0.26 J	0.20 J	< 1	0.18 J	<
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1	<	<
Total VOCs			0.9	1.4	0.88	0.86	0.74	0.60	1.30			0.80	0.60	0.91	3.49	0.85	0.78		3.44	0.44

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Alpha Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb).
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for IRM-1 for the September 2021 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high. J = estimated concentration. L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

TABLE 17
State Superfund Site Groundwater Analytical Summary
Former Signore Facility
55-57 Jefferson Street
Ellicottville, New York

Parameter	Class GA Criteria	MW-2I																		
		4/23/09	10/22/09	6/3/10	4/13/11	10/13/11	5/9/12	10/31/12	6/25/13	10/15/13	6/6/14	10/14/14	6/3/15	10/22/15	6/15/16	10/24/16	7/11/17	6/20/18	6/13/19	9/15/21
Volatile Organic Compounds - EPA Method 8260																				
Methylene chloride	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<1.5	<1.5	<1.5	<1.5	<5.0	2.1 J	<
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	<2	<2	<2	<2	<2	<5.0	<	<
Bromodichloromethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Dibromochloromethane	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Chloromethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Chloroform	7	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Benzene	1	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Bromoform	50	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Carbon disulfide	NV	<	<	12.0	0.90J	1.3	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT	<	<
Vinyl Chloride	2	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
1,1-Dichloroethene	5*	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
1,1-Dichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
trans-1, 2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
cis-1,2-Dichloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
1,1,1-Trichloroethane	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Trichloroethene	5	<	<	<	<	<	0.83J	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<	<
Tetrachloroethene	5	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	<1	<1	<	<
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	<1	<	<
Total VOCs				12.0	0.9	1.3	0.83												2.10	

Parameter	Class GA Criteria	TOWN WELL																		
		4/23/09	10/22/09	6/2/10	4/13/11	10/14/11	5/10/12	11/1/12	6/26/13	10/16/13	6/9/14	10/14/14	6/2/15	10/22/15	6/14/16	10/24/16	7/12/17	6/19/18	6/11/19	9/16/21
Volatile Organic Compounds - EPA Method 8260																				
Methylene chloride	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1		
Acetone	50	<	<	<	<	<	<	<	<	<	<	<	<	<1.5	2.4 J	<1.5	<1.5	< 5	2.6 J	<
2-Butanone	50	<	<	<	<	<	< 5	< 5	< 5	< 5	< 5	< 2	<2	<2	<2	<2	<2	< 5	<	<
Bromodichloromethane	5	<	<	<	.53J	1.4	0.67J	0.96J	< 1	< 1	< 1	< 1	0.52	0.27 J	0.45 J	0.53	<1	< 1	0.5	0.36 J
Dibromochloromethane	50	<	<	<	1.2	1.7	1.2	< 1	< 1	< 1	< 1	< 1	0.99	0.54	3	0.97	<1	1.3	0.73	0.66
Chloromethane	NV	<	NT	0.56	<	<	< 1	< 1	1.3	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
Chloroform	7	<	NT	0.62	<	1.1	< 1	0.82J	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
Bromoform	50	<	NT	0.51	1.7	1.4	0.88J	1.6	< 1	< 1	< 1	< 1	1.2 J	<1	1.3 J	1.3 J	<1	< 1	<	<
Carbon Disulfide	NV	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
Iodomethane	NV	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	NT	<	<
Vinyl Chloride	2	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
1,1-Dichloroethene	5*	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
1,1-Dichloroethane	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
trans-1, 2-Dichloroethene	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
cis-1,2-Dichloroethene	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
1,1,1-Trichloroethane	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	< 1	<1	<1	<1	<1	<1	< 1	<	<
Trichloroethene	5	<	NT	<	0.69J	0.55J	< 1	0.58J	0.63J	< 1	< 1	0.45 J	0.48 J	0.44 J	0.45 J	0.50	0.37	< 1	0.32 J	0.32 J
Tetrachloroethene	5	<	NT	<	<	<	< 1	< 1	< 1	< 1	< 1	<1	<1	0.24 J	<1	0.23 J	<1	< 1	<	<
Naphthalene	10	<	<	<	<	<	< 1	< 1	< 1	< 1	< 1	NT	NT	NT	NT	NT	NT	< 1	<	<
Total VOCs				1.69	4.12	6.15	2.75	3.96	1.93			0.45	3.19	1.49	7.60	3.53	0.37	1.30	4.15	1.34

Notes:
1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Alpha Analytical.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), dated October 1993, revised June 1998, January 1999 errata sheet, and April 2000 addendum. * Guidance value (not a standard) for 1,1-Dichloroethene = 0.07 ug/L as per the January 1999 update.
4. ug/L = part per billion (ppb).
5. < indicates compound was not detected; < 1 indicates compound was not detected above its respective reporting limit.
6. Shading indicates exceedance of Class GA Criteria.
7. NT = not tested.
8. NV = no value.
9. Results shown for IRM-1 for the September 2021 sampling event are the higher results from it or its respective duplicate.
10. Lab qualifiers: CH = continuing calibration outside of lab acceptance limits; results may be biased high. J = estimated concentration. L2 = analyte recovery in the control sample was below quality control limits; results may be biased low. Qualifiers for detected compounds only shown.

Table 18
BCP Site Post-Injection Groundwater Analytical Summary
Former Signore Facility
Ellicottville, New York

Sample Location Sample Date	Class GA Criteria	EW-1.25 6/25/2013	Q	EW-1.25 10/16/2013	Q	EW-1.25 6/10/2014	Q	EW-1.25 6/4/2015	Q	EW-1.25 8/21/2015	Q	EW-1.25 10/21/2015	Q	EW-1.25 6/15/2016	Q	EW-1.25 10/25/2016	Q	EW-1.25 7/13/2017	Q	EW-1.25 6/21/2018	Q	EW-1.25R 6/14/2019	Q	EW-1.25R 9/17/2021	Q	EW-1.25R 9/30/2022	Q
Volatile Organic Compounds - EPA Method SW-846, 8260C (ug/L)																											
Acetone	50	<		<		<		<		<		3.8	J	2.3	J	<		<		<		6.8				1.5	J
Benzene	1	<		<		<		<		<		<		<		<		<		<		0.18	J			<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		1.8		<		<		<		<	
Chloromethane	NV	0.77	J	<		<		<		<		<		<		<		<		<		0.88	J			<	
1,1-Dichloroethane	5	4.1		4.1		2.9		3		2.6		4.2		2.9		3.9		3.0		<		1.1	J	1.2	J	<	
1,1-Dichloroethene	5	<		<		<		0.25	J	0.19	J	0.36	J	0.24	J	0.48	J	0.39	J	<		<		<		<	
Vinyl chloride	2	4.6		5		2.4		2.6		<		3.3		3.2		6.6		<		<		<		0.17	J	0.12	J
2-Butanone	50	<		<		<		<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	31		32		23		29		28		44		28		98		57		<		2.1	J	2.5		1.4	J
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		0.82	J	<		<		0.7	J	<		<		<		<		<	
Tetrachloroethene	5	3.3		3.8		3.6		<		1.4		1.8		3.1		<		<		<		<		<		<	
Trichloroethene	5	51		59		41		47		42		58		47		0.27	J	35		<		<		<		<	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		0.79	J	<		<		<		<		<	
Total VOCs		94.77		103.9		72.9		81.85		75.01		115.46		86.74		110.74		97.19				11.06		3.87		3.02	
Field Parameters																											
Temperature (Deg. C)	NV	13		13.5		10.4		9.1		13.1		13.4		12.4		13		14.9		12.1		9.8		14.1		13.4	
Specific Conductance (mS/cm)	NV	0.7		0.68		0.7		0.757		0.67		0.68		0.653		0.612		0.65		0.629		0.633		0.641		0.564	
Dissolved Oxygen (mg/L)	NV	0.05		0.18		0.06		0.17		0.12		0.22		0.29		0.23		0.13		0.65		0.18		17.1		3.1	
Oxygen Reduction Potential (mv)	NV	-88.5		-99.3		-91.2		-130.5		-86.2		-91.6		161.4		-125.1		-169.9		-54.1		-140.1		-98.9		-96	
pH (std. units)	NV	7.35		6.85		6.78		6.73		6.77		6.89		6.79		6.87		6.77		6.12		6.91		6.28		6.78	
Turbidity (NTUs)	NV	9.12		3.31		11.71		7.7		14.2		10.7		20.1		11.87		13.13		21.5		69.11		9.82		8.14	
Inorganics (ug/L)																											
Iron	300	NS		1,000		14,000		14,000		11,500		11,900		27,300		10,500		<		27,000	M1	6,600	M1	28,400		NS	
Manganese	300	NS		1,300		1,600		1,482		1,265		1,465		1,453		1,354		1,256		3,060		1,392		2,460		NS	
Miscellaneous Water Quality Parameters																											
Methane (ug/L)	NV	NS		1,000		170		237		218		190		244		130		130		NT		1,110		1,620		NS	
Ethane (ug/L)	NV	NS		<		<		<		<		<		<		<		<		NT		6.85		<		NS	
Ethene (ug/L)	NV	NS		1.7		<		<		0.535		<		0.558		0.55		0.55		NT		2.82		<		NS	
Total Organic Carbon (mg/L)	NV	NS		<		<		2.07		2.47		1.92		2.26		1.56		1.84		21.0		7.97		11.60		NS	
Chloride (mg/L)	250	NS		66	B	69		62		57		56		49		45		47		48.2	M1	14.1		16.0		NS	
Nitrate (mg/L)	10	NS		<		<		0.015	J	0.020	J	<		<		0.029	J	<		<		<		0.12		NS	
Nitrite (mg/L)	1	NS		<		<		NS		NS		NS		NS		NS		NS		<		NS		NS		NS	
Sulfate (mg/L)	250	NS		7.6		7.4	B	12.8		10.3		10.5		10.2		11.7		8.86		<		10.3		4		NS	

Notes:

1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range.
   M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

Table 18
BCP Site Post-Injection Groundwater Analytical Summary
Former Signore Facility
Ellicottville, New York

Sample Location Sample Date	Class GA Criteria	SP-32 10/3/2012	Q	SP-32 10/17/2013	Q	SP-32 6/10/2014	Q	SP-32 6/4/2015	Q	SP-32 8/21/2015	Q	SP-32 10/22/2015	Q	SP-32 6/15/2016	Q	SP-32 10/25/2016	Q	SP-32 7/12/2017	Q	SP-32 6/21/2018	Q	SP-32 6/14/2019	Q	SP-32 9/16/2021	Q	SP-32 9/30/2022	Q
Volatile Organic Compounds - EPA Method SW-8																											
Acetone	50	<		240	D	<		<		<		<		2.8	J	<		<		<		4.8	J	<		<	
Benzene	1	<		<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		0.18	J	0.23	J	<		<		<		<		<		<		<		<	
2-Butanone	50	<		45		<		<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	<		26		11		4.5		4.7		2.7		3.3		<		<		<		<		<		<	
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	2.1		<		<		0.25	J	0.46	J	0.62		0.44	J	0.42	J	0.32	J	<		0.2	J	0.25	J	0.2	J
Trichloroethene	5	120		3.4		6.4		5.8		6.5		6.7		14		1.2		0.85		4.4		0.41	J	1.6		2.1	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Total VOCs		122.1		314.4		17.4		10.73		11.89		10.02		20.54		1.62		1.17		4.4		0.43		1.85		2.3	
Field Parameters																											
Temperature (Deg. C)	NV	13.2		16.5		13.1		11.0		17.7		16.6		15.8		15.1		18.6		13.2		12.2		19.9		18.3	
Specific Conductance (mS/cm)	NV	0.418		0.65		0.392		0.326		0.272		0.223		0.232		0.181		0.133		0.144		0.122		0.167		0.167	
Dissolved Oxygen (mg/L)	NV	4.92		0.18		0.12		0.15		0.16		0.48		0.53		1.67		2.29		0.76		5.59		42.8		48.4	
Oxygen Reduction Potential (mv)	NV	50.3		-95.3		-21.9		104.4		57.7		169.9		236.7		153		41.9		181.2		150.8		215.3		93.1	
pH (std. units)	NV	7.23		6.45		6.48		6.28		6.34		6.25		6.22		6.0		5.9		5.96		6.30		6.05		6.40	
Turbidity (NTUs)	NV	35		6.76		4.95		0.6		7.15		4.42		7.6		4.96		5.02		2.8		17.51		5.36		7.52	
Inorganics (ug/L)																											
Iron	300	NS		3,480		16,000		339		246		206		541		66		<		<		NS		NS		NS	
Manganese	300	NS		24,600		19,000		6,468		8,331		2,897		2,668		1,144		12		<		NS		NS		NS	
Miscellaneous Water Quality Parameters																											
Methane (ug/L)	NV	NS		120		660		725		932		208		205		3.31		0.55	J	<		NS		NS		NS	
Ethane (ug/L)	NV	NS		<		<		0.659		0.841		<		<		<		<		<		NS		NS		NS	
Ethene (ug/L)	NV	NS		1.7		<		<		<		<		<		<		<		<		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		51		<		1.35		1.7		1.02		1.45		0.87		1.08		<		NS		NS		NS	
Chloride (mg/L)	250	NS		5	B	3.1		3.46		3.12		2.83		2.72		1.59		0.861		<		NS		NS		NS	
Nitrate (mg/L)	10	NS		<		<		1.92		0.93		4.2		3.9		4.8		1.4		1		NS		NS		NS	
Nitrite (mg/L)	1	NS		<		<		NS		NS		NS		NS		NS		NS		<		NS		NS		NS	
Sulfate (mg/L)	250	NS		4.9	J	14	B	14.6		16.8		16.1		16.3		14.4		13.8		15.9		NS		NS		NS	

Notes:

1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range. M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

Table 18
BCP Site Post-Injection Groundwater Analytical Summary
Former Signore Facility
Ellicottville, New York

Sample Location Sample Date	Class GA Criteria	SP-37 10/5/2012	Q	SP-37 10/17/2013	Q	SP-37 6/10/2014	Q	SP-37 6/4/2015	Q	SP-37 8/21/2015	Q	SP-37 10/23/2015	Q	SP-37 6/16/2016	Q	SP-37 10/26/2016	Q	SP-37 7/12/2017	Q	SP-37 6/21/2018	Q	SP-37 6/14/2019	Q	SP-37 9/17/2021	Q	SP-37 9/30/2022	Q
Volatile Organic Compounds - EPA Method SW-8																											
Acetone	50	<		<		<		<		<		<		2.6	J	<		<		<		5.5		<		<	
Benzene	1	<		<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		<		0.21	J	0.42	J	<		<		<		<		<		<	
2-Butanone	50	<		<		<		<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	1.8		7.3		0.99	J	3.4		9.9		9.4		6.7		12		2.7		1.9		3.6		6.8		6.6	
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		0.82	J	<		<		<		<		<		<		<		<	
Tetrachloroethene	5	9.6		24		13		18		15		26		14		17		12		13.2		10		15		7.3	
Trichloroethene	5	13		20		7.2		10		11		19		13		14		7.8		10.9		12		12		7.4	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Total VOCs		24.4		51.3		27.2		31.4		36.72		54.61		36.72		43		22.5		26		31.1		33.8		21.3	
Field Parameters																											
Temperature (Deg. C)	NV	13.5		17		11.9		10		17		15.3		13.3		14.2		18.4		12.1		11.9		18.8		18.9	
Specific Conductance (mS/cm)	NV	0.452		0.535		0.305		0.449		0.432		0.396		0.291		0.246		0.19		0.184		0.166		0.210		0.195	
Dissolved Oxygen (mg/L)	NV	0.28		0.2		0.58		0.68		0.07		0.13		0.29		0.55		0.86		2.53		3.05		44.2		26	
Oxygen Reduction Potential (mv)	NV	-122.4		74.8		107.7		117.6		16.1		82.8		306.5		130.2		6.7		180.1		151.5		213.1		143.7	
pH (std. units)	NV	6.6		6.39		6.28		6.12		6.28		6.3		6.03		5.99		6.08		5.94		6.25		5.86		6.21	
Turbidity (NTUs)	NV	2.5		9.35		12.5		1.4		5.27		2.3		5.93		5.02		10.37		0.9		6.12		9.26		6.82	
Inorganics (ug/L)																											
Iron	300	NS		61.7	B	900		81.4		409		66		85		56		<		<		NS		NS		NS	
Manganese	300	NS		336		150		1,021		6,015		2,035		1,137		1,445		73		<		NS		NS		NS	
Miscellaneous Water Quality Parameters																											
Methane (ug/L)	NV	NS		26		2.5		28		108		67.4		47.2		<		<		<		NS		NS		NS	
Ethane (ug/L)	NV	NS		<		<		<		<		<		<		<		<		<		NS		NS		NS	
Ethene (ug/L)	NV	NS		<		<		<		<		<		<		<		<		<		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		4	J	2.8	J	2.51		4.75		2.62		2.47		2.21		1.93		1.5	M1	NT		1.14		NS	
Chloride (mg/L)	250	NS		12	B	3.8		28.8		16.4		14.7		7.11		5.79		2.64		2.4		NS		NS		NS	
Nitrate (mg/L)	10	NS		4.8		5.2		2.98		0.04		0.27		1.40		3.20		1.30		0.79		NS		NS		NS	
Nitrite (mg/L)	1	NS		<		<		NS		NS		NS		NS		NS		NS		<		NS		NS		NS	
Sulfate (mg/L)	250	NS		36		24	B	23.3		18		21.1		18.3		21		14.3		13.9		9.78		10.6		NS	

Notes:

1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range. M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

Table 18
BCP Site Post-Injection Groundwater Analytical Summary
Former Signore Facility
Ellicottville, New York

Sample Location Sample Date	Class GA Criteria	SP-38 10/4/2012	Q	SP-38 10/17/2013	Q	SP-38 6/10/2014	Q	SP-38 8/21/2015	Q	SP-38 10/23/2015	Q	SP-38 6/15/2016	Q	SP-38 10/26/2016	Q	SP-38 7/12/2017	Q	SP-38 6/21/2018	Q	SP-38 6/14/2019	Q	SP-38 9/16/2021	Q	SP-38 9/30/2022	Q
Volatile Organic Compounds - EPA Method SW-8																									
Acetone	50	<		<		<		<		<		1.6	J	<		<		<		<		<		<	
Benzene	1	<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		1.8	J	1.9		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		2	J	1.9	J	<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		22		0.39	J	4.0		4.2		<		<		1.4		0.08	J
2-Butanone	50	<		<		<		26		2.1	J	<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	<		1.5		1.2		46		0.82	J	<		<		<		<		<		2.2	J	<	
Toluene	5	<		<		<		<		1	J	<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	2.4		<		<		0.86	J	<		<		<		<		<		<		<		<	
Tetrachloroethene	5	5		<		5.2		0.22	J	0.37	J	0.28	J	0.48	J	0.2	J	<		<		0.4	J	0.81	
Trichloroethene	5	17		7.8		19		0.45	J	0.29	J	5.5	J	8.2		6.5		5.8		<		4.6		6	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<	
Total VOCs		24.4		9.3		25.4		77.33		30.38		7.77		12.68		10.9		5.8				8.6		6.89	
Field Parameters																									
Temperature (Deg. C)	NV	13.1		15.2		11.6		15.2		15.1		16.1		14.8		16.7		11.7		11.3		17.9		16.1	
Specific Conductance (mS/cm)	NV	0.437		0.412		0.437		1.03		0.69		0.419		0.443		0.416		0.404		0.398		0.446		0.397	
Dissolved Oxygen (mg/L)	NV	3.25		2.88		4.65		0.07		0.11		1.32		0.23		0.72		2.11		2.32		19.4		27.4	
Oxygen Reduction Potential (mv)	NV	31.7		103.5		136		-124.2		-172.7		241.8		-22.5		-79.6		150.8		125.2		156.6		106.7	
pH (std. units)	NV	6.81		6.72		6.72		7.1		7.39		6.59		6.75		6.85		6.56		6.89		6.7		6.79	
Turbidity (NTUs)	NV	27.4		2.12		19.2		12.3		2.12		6.39		7.69		5.88		21.5		180.22		42.28		7.35	
Inorganics (ug/L)																									
Iron	300	<		<		1,500		5,660		3,040		352		811		<		<		NS		NS		NS	
Manganese	300	5,100		41.1	B	180		24,820		12,680		2762		9031		1,827		23		NS		NS		NS	
Miscellaneous Water Quality Parameters																									
Methane (ug/L)	NV	<		20		1.1		807.0		636.0		3.9		13.7		10.1		4.4		NS		NS		NS	
Ethane (ug/L)	NV	NM		<		<		<		2.57		<		0.633		<		<		NS		NS		NS	
Ethene (ug/L)	NV	NM		<		<		3.45		4.56		<		2.04		0.652		<		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	<		<		<		86.9		2.22		1.21		1.32		1.05		<		NS		NS		NS	
Chloride (mg/L)	250	31		40	B	34		29		27.1		36.1		27.7		22.6		32		NS		NS		NS	
Nitrate (mg/L)	10	4.7		1.4		3.3		0.0	J	<		0.6		0.24		0.24		0.37		NS		NS		NS	
Nitrite (mg/L)	1					<		<		NS		NS		NS		NS		<		NS		NS		NS	
Sulfate (mg/L)	250	23		11		13	B	0.063	J	5.99		11.5		16.1		13.8		11.7		NS		NS		NS	

Notes:

1. Only compounds detected in one or more of the groundwater samples are presented in this table.
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3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range. M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compount is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

Table 18
BCP Site Post-Injection Groundwater Analytical Summary
Former Signore Facility
Ellicottville, New York

Sample Location Sample Date	Class GA Criteria	SP-43 10/4/2012	Q	SP-43 10/17/2013	Q	SP-43 6/10/2014	Q	SP-43 6/4/2015	Q	SP-43 8/21/2015	Q	SP-43 10/23/2015	Q	SP-43 6/16/2016	Q	SP-43 10/26/2016	Q	SP-43 7/12/2017	Q	SP-43 6/21/2018	Q	SP-43 6/14/2019	Q	SP-43 9/17/2021	Q	SP-43 9/30/2022	Q
Volatile Organic Compounds - EPA Method SW-8																											
Acetone	50	<		53		<		<		<		<		1.9	J	<		<		<		5.4		<		<	
Benzene	1	<		<		<		<		<		<		<		<		<				<		<		<	
Carbon disulfide	NV	<		1.3		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		0.92	J	<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		0.48	J	6.6		<		<		<		<		<		<		<	
2-Butanone	50	<		84		<		<		21		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	<		5.4		3.9		1.1	J	9.4		9.2		4.6		2.1	J	<		<		<		0.95	J	<	
Toluene	5	<		<		<		<		<		84.0		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	93		24		14		14		10		17		7.7		11.0		6.9		7.4	CH	4.0		6.1		4.6	
Trichloroethene	5	5.2		2.6		<		0.72		2.20		8.30		0.71		0.70		0.24	J	<		0.58		0.60		0.43	J
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Total VOCs		98.2		170.3		17.9		15.82		43.08		125.10		14.91		13.80		7.14		7.40		9.40		7.65		5.03	
Field Parameters																											
Temperature (Deg. C)	NV	14.1		18.4		13		12.2		16.6		15.9		14.6		14.2		20.5		15.6		13.8		20.9		19.5	
Specific Conductance (mS/cm)	NV	0.445		0.513		0.304		0.773		0.66		0.68		0.237		0.224		0.183		0.151		0.127		0.149		0.146	
Dissolved Oxygen (mg/L)	NV	1.48		0.22		0.23		1.1		0.12		0.12		1.23		1.96		1.96		1.73		3.52		28.1		31.5	
Oxygen Reduction Potential (mv)	NV	44.2		-39.3		149		175.8		-15.1		-88.2		310.9		184.3		12.4		156.6		153.9		196.3		132.5	
pH (std. units)	NV	6.55		5.88		6.13		5.82		6.31		6.83		5.87		6.02		6.12		6.11		6.32		5.9		6.29	
Turbidity (NTUs)	NV	39.8		4.04		18		0.2		31.7		4.26		6.7		3.12		4.72		1.8		16.25		16.07		7.45	
Inorganics (ug/L)																											
Iron	300	NS		6,150		7,100		54		5,780		6,220		127		114		<		<		NS		NS		NS	
Manganese	300	NS		5,510		1,600		1,254		8,919		10,240		171.8		190.4		5.4		10.4		NS		NS		NS	
Miscellaneous Water Quality Parameters																											
Methane (ug/L)	NV	NS		16		12		0.756	J	2,490.000		6,520.000		0.612		<		0.619	J	<		NS		NS		NS	
Ethane (ug/L)	NV	NS		2.4		<		<		<		<		<		<		<		<		NS		NS		NS	
Ethene (ug/L)	NV	NS		3.7		<		<		<		2.13		<		<		<		<		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		80		<		1.84		28.8		3.62		2.09		1.91		1.58		1.1		NS		NS		NS	
Chloride (mg/L)	250	NS		6.3	B	2.2		136.0		62.2		40.0		12.2		9.6		4.1		2.6		NS		NS		NS	
Nitrate (mg/L)	10	NS		0.36		8.30		8.65		0.59		0.21		2.10		4.10		3.70		1.60		NS		NS		NS	
Nitrite (mg/L)	1	NS		<		0.042	J	NS		NS		NS		NS		NS		NS		<		NS		NS		NS	
Sulfate (mg/L)	250	NS		12		25	B	19.8		18.3		13.3		22		21.4		14.7		14.1		NS		NS		NS	

Notes:

1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range. M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Shaded concentrations exceed Class GA criteria.

Table 18
BCP Site Post-Injection Groundwater Analytical Summary
Former Signore Facility
Ellicottville, New York

Sample Location Sample Date	Class GA Criteria	SP-45 10/4/2012	Q	SP-45 10/17/2013	Q	SP-45 6/10/2014	Q	SP-45 6/4/2015	Q	SP-45 8/21/2015	Q	SP-45 10/23/2015	Q	SP-45 6/16/2016	Q	SP-45 10/26/2016	Q	SP-45 7/13/2017	Q	SP-45 6/21/2018	Q	SP-45 6/14/2019	Q	SP-45 9/17/2021	Q	SP-45 9/30/2022	Q
Volatile Organic Compounds - EPA Method SW-8																											
Acetone	50	<		<		<		<		<		<		1.5	J	<		<		<		4.1		<		<	
Benzene	1	<		<		<		<		<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		<		6.3		5.5		7.5		1.7		<		<		0.11	J	<	
2-Butanone	50	<		<		<		<		<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	6.8		1.1		1.9		2.9		1.4	J	5.7		3.7		13		2.0	J	1.4		1.3	J	9.0		4.0	J
Toluene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	260	D	69		130		160		16		45		16		170		45		18.7		17		130		260	
Trichloroethene	5	13		3.6		6.4		8.5		1.5		7.5		7.2		53		10		5.4		4.6		26		55	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<		<		<		<		<	
Total VOCs		283.0		73.7		138.3		171.4		18.9		171.4		33.9		243.5		58.7		25.5		27.0		165.1		319.0	
Field Parameters																											
Temperature (Deg. C)	NV	14.6		17.8		16.5		14		19.1		15.8		15.2		15.8		15.8		13.3		14		20.7		19.6	
Specific Conductance (mS/cm)	NV	0.543		0.363		0.391		0.584		0.6		0.62		0.503		0.442		0.442		0.391		0.336		0.410		0.341	
Dissolved Oxygen (mg/L)	NV	1.07		5.21		3.02		3.58		0.09		0.07		0.5		0.06		0.06		2.72		3.85		18.4		6.1	
Oxygen Reduction Potential (mv)	NV	-29.5		88.3		143.1		73.3		-62.7		-61.7		250.7		-8.7		-8.7		88.2		128.4		162.6		129.9	
pH (std. units)	NV	6.48		6.83		6.71		6.71		7.05		7.05		6.91		6.66		6.66		6.89		7.23		6.59		6.7	
Turbidity (NTUs)	NV	3.95		2.3		3.17		0.5		14.91		5.06		11.25		17.2		17.2		5.5		12.48		7.25		7.25	
Inorganics (ug/L)																											
Iron	300	NS		32.1	B	170	J	27.2	J	45	J	1,260		197		386		<		<		NS		NS		NS	
Manganese	300	NS		<		<		1.93		296.4		3,510		1447		1,340		240		332		NS		NS		NS	
Miscellaneous Water Quality Parameters																											
Methane (ug/L)	NV	NS		14		1.1		0.762	J	96.9		958		1500		3610		1760		8.1		NS		NS		NS	
Ethane (ug/L)	NV	NS		<		<		<		<		<		1.18		2.47		1.0		<		NS		NS		NS	
Ethene (ug/L)	NV	NS		<		<		<		<		1.08		2.59		3.36		0.77		<		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		<		<		1.64		3.93		1.86		1.69		1.49		1.23		<		1.06		0.945		NS	
Chloride (mg/L)	250	NS		5.1	B	4.2		35.0		9.4		17.3		15.4		12.6		3.2		6.8		NS		NS		NS	
Nitrate (mg/L)	10	NS		6		5.2		2.68		1.2		1.9		0.39		0.72		0.79		0.35		NS		NS		NS	
Nitrite (mg/L)	1	NS		<		<		NS		NS		NS		NS		NS		NS		<		NS		NS		NS	
Sulfate (mg/L)	250	NS		39		33	B	32.7		43.4		22.4		24		23.8		19.1		16.8		12.1		9.82		NS	

Notes:

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4. Criteria is a guidance value.
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7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

Table 18
BCP Site Post-Injection Groundwater Analytical Summary
Former Signore Facility
Ellicottville, New York

Sample Location Sample Date	Class GA Criteria	TP-11 6/3/2015	Q	TP-11 10/22/2015	Q	TP-11 6/16/2016	Q	TP-11 10/25/2016	Q	TP-11 7/12/2017	Q	TP-11 6/20/2018	Q	TP-11 6/13/2019	Q	TP-11 9/17/2021	Q	TP-11 9/30/2022	Q
Volatile Organic Compounds - EPA Method SW-8																			
Acetone	50	<		<		2	J	<		<		<		2.5	J	<		<	
Benzene	1	<		<		<		<		<		<		<		<		<	
Carbon disulfide	NV	<		<		<		<		<		<		<		<		<	
Chloromethane	NV	<		<		<		<		<		<		<		<		<	
1,1-Dichloroethane	5	<		<		<		<		<		<		<		<		<	
1,1-Dichloroethene	5	<		<		<		<		<		<		<		<		<	
Vinyl chloride	2	<		<		<		<		<		<		<		<		<	
2-Butanone	50	<		<		<		<		<		<		<		<		<	
cis-1,2-Dichloroethene	5	19		12		18		13		8.1		12.4		9.7		13		8.8	
Toluene	5	<		<		<		<		<		<		<		<		<	
1,1,1-Trichloroethane	5	<		<		<		<		<		<		<		<		<	
Tetrachloroethene	5	0.58		1.5		0.53		1.2		0.25	J	<		0.49	J	0.47	J	0.44	J
Trichloroethene	5	88		74		77		58		40		66.7		41		55		33	
trans-1,2-dichloroethene	5	<		<		<		<		<		<		<		<		<	
Total VOCs		107.58		87.50		97.53		72.20		48.35		79.10		53.69		68.47		42.24	
Field Parameters																			
Temperature (Deg. C)	NV	17.5		14.4		12.4		13.4		16.9		9.5		8.8		16.2		14.8	
Specific Conductance (mS/cm)	NV	0.37		0.535		0.493		0.504		0.393		0.464		0.447		0.558		0.518	
Dissolved Oxygen (mg/L)	NV	0.11		1.57		2.84		2.24		2.06		4.83		4.12		33.2		25.6	
Oxygen Reduction Potential (mv)	NV	-23.6		90.7		267.4		77.7		6.6		101.7		122		200.2		86.1	
pH (std. units)	NV	6.84		7.04		6.9		6.8		6.69		6.81		7.06		6.45		5.18	
Turbidity (NTUs)	NV	6.27		1.87		7.69		9.67		4.97		0.3		1.84		4.91		13.93	
Inorganics (ug/L)																			
Iron	300	NS		NS		NS		NS		NS		NS		NS		NS		NS	
Manganese	300	NS		NS		NS		NS		NS		NS		NS		NS		NS	
Miscellaneous Water Quality Parameters																			
Methane (ug/L)	NV	NS		NS		NS		NS		NS		NS		NS		NS		NS	
Ethane (ug/L)	NV	NS		NS		NS		NS		NS		NS		NS		NS		NS	
Ethene (ug/L)	NV	NS		NS		NS		NS		NS		NS		NS		NS		NS	
Total Organic Carbon (mg/L)	NV	NS		NS		NS		NS		NS		NS		NS		NS		NS	
Chloride (mg/L)	250	NS		NS		NS		NS		NS		NS		NS		NS		NS	
Nitrate (mg/L)	10	NS		NS		NS		NS		NS		NS		NS		NS		NS	
Nitrite (mg/L)	1	NS		NS		NS		NS		NS		NS		NS		NS		NS	
Sulfate (mg/L)	250	NS		NS		NS		NS		NS		NS		NS		NS		NS	

Notes:

1. Only compounds detected in one or more of the groundwater samples are presented in this table.
2. "<" indicates compound was not detected above the method detection limit.
3. Analytical testing completed by TestAmerica, Alpha Analytical and Pace Analytical.
4. Criteria is a guidance value.
5. Laboratory qualifiers: B = compound was found in the blank and sample; J = result is less than the RL but greater than or equal to the MDL and the concentration is an approximation; * - LCS or LCSD exceeds the control limits; D = value shown is result of dilution analysis; E = value above quantitation range. M1 = Matrix spike recover exceeded QC limits. Batch accepted based on laboratory LCS recovery. CH = continuing calibration for this compound is outside of laboratory acceptance limits; results may be biased high.
6. mg/L = parts per million; ug/L = parts per billion
7. NYSDEC Class GA Groundwater Criteria as promulgated in 6 NYCRR 703; Table 1 in Technical and Operational Guidance Series (1.1.1): Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, dated October 1993; revised June 1998; errata dated January 1999; addendum dated April 2000.
8. NV = no value; NS = Not sampled.
9. Sum of Nitrate/Nitrite Class GA Criteria = 10 mg/L (no exceedances)
10. Shaded concentrations exceed Class GA criteria.

APPENDIX A – ENVIRONMENTAL EASEMENT

Cattaraugus County Clerk
Alan Bernstein

Cattaraugus County Center 303 Court Street
Little Valley, NY 14755
716-938-2297
Fax: 716-938-2773

Instrument Number
202102810

Document Type: EASEMENT

Receipt Number: 21-2851
Instrument Number: 202102810
Date/Time: 03/16/2021 10:51 AM

Deed Information

Transfer Tax	$0.00

First Grantor: ISKALO ELLICOTTVILLE HOLDINGS
First Grantee: NEW YORK STATE PEOPLE

Mortgage Information

Basic Tax
Local Tax
Additional Tax
Special Tax

Town: EL - ELLICOTTVILLE (TOWN)

Pages: 11

Total Mortgage Tax	$0.00
Taxable Amount	

Mortgage Serial No.:
Transfer Tax Number: 02185

Return To:
SLATER LAW FIRM
500 SENECA ST
ENV
BUFFALO NY 14202

State of New York
County of Cattaraugus

This sheet constitutes the Clerk endorsement required by Section 316-A(5) & Section 319 of the Real Property Law of the State of New York.

Alan Bernstein

Cattaraugus County Clerk

Please do not remove this page

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

THIS INDENTURE made this 9th day of March, 2021, between Owner Iskalo Ellicottville Holdings LLC, having an office at 5166 Main Street, Williamsville, New York 14221, County of Erie, 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 55 Jefferson Street in the Town of Ellicottville, County of Cattaraugus and State of New York, known and designated on the tax map of the County Clerk of Cattaraugus as tax map parcel number: Section 55.43 Block 1 Lot 3.1, being the same as that property conveyed to Grantor by deed dated February 11, 2008 and recorded in the Cattaraugus County Clerk's Office as Instrument No. 96174-004 and by deed dated February 11, 2008 and recorded in the Cattaraugus County Clerk's Office as Instrument No. 96174-005. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 13.65 +/- acres, and is hereinafter more fully described in the Land Title Survey dated November 1, 2018 prepared by Andrew S. Rosenberger, LLS of E&M Engineering and Surveyors PC, 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

96174-005 ✓ 96.00
96174-004 ✓ 5.00

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 and the terms and conditions of Brownfield Cleanup Agreement Index Number: C905034-01-11, 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 may be used for:

Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(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 Cattaraugus 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 purposes as defined in 6NYCRR 375-1.8(g)(2)(i), 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: C905034
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.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

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

Iskalo Ellicottville Holdings LLC:
By Iskalo Development Corp., Manager

By: _____

Print Name: Paul B. Iskalo

Title: President & CEO Date: 12/22/20

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF)

On the 22nd day of December in the year 20 20, before me, the undersigned, personally appeared Paul B. Iskalo, 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.

Julie M. Kramer
Notary Public - State of New York

Julie M Kramer
Notary Public State of New York
No. 01KR6318304
Qualified in Erie County
Commission Expires 01/26/20 23

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: _____
Michael J. Ryan, Director
Division of Environmental Remediation

Grantee's Acknowledgment

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

On the 9th day of March, in the year 2021, before me, the undersigned, personally appeared Michael J. Ryan, 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

JENNIFER ANDALORO
Notary Public, State of New York
No. 02AN6098246
Qualified in Albany County
Commission Expires January 14, 2024

SCHEDULE "A" PROPERTY DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the Village of Ellicottville, County of Cattaraugus and State of New York, being part of Lot 65 of Town 4 and Range 6 of the Holland Land Company's Survey and further bounded and described as follows:

Beginning at a point on the westerly bounds of Jefferson Street, also being known as U.S. Route 219, said point of beginning located southeasterly a distance of 973.5 feet, more or less, from the southerly line of Martha Street;

Thence, along the westerly bounds of Jefferson Street, S 29°42'51" E a distance of 711.21 feet to a point on the top of bank of Plum Creek;

Thence, along the top of bank of Plum Creek, the following courses and distances:

1. S 58°33'56" W a distance of 36.89 feet to a point;

2. Thence, S 59°55'13" W a distance of 50.21 feet to a point;

3. Thence, S 53°28'21" W a distance of 76.68 feet to a point;

4. Thence, S 86°35'58" W a distance of 43.13 feet to a point;

5. Thence, N 74°19'40" W a distance of 115.79 feet to a point;

6. Thence, N 68°44'43" W a distance of 148.90 feet to a point;

7. Thence, N 65°29'29" W a distance of 56.91 feet to a point;

8. Thence, N 67°01'58" W a distance of 277.25 feet to a point;

9. Thence, S 89°59'27" W a distance of 84.39 feet to a point;

10. Thence, N 47°50'31" W a distance of 394.29 feet to a point;

11. Thence, N 26°19'41" W a distance of 56.49 feet to a point;

12. Thence, N 21°18'32" E a distance of 61.61 feet to a point;

13. Thence, N 48°30'14" W a distance of 184.51 feet to a point on the northerly line of lands now or formerly owned by Iskalo Ellicottville Holdings;

Thence, along the northerly line of Iskalo Ellicottville Holdings, N 60°36'00" E a distance of 582.24 feet to a point at the northeasterly corner of Iskolo Ellicottville Holdings;

Thence, along the easterly line of Iskalo Ellicottville Holdings,

S 30°11'32" E a distance of 315.01 feet to a point;

Thence, continuing along the easterly line of Iskalo Ellicottville Holdings, S 29°33'09" E a distance of 129.17 feet to a point;

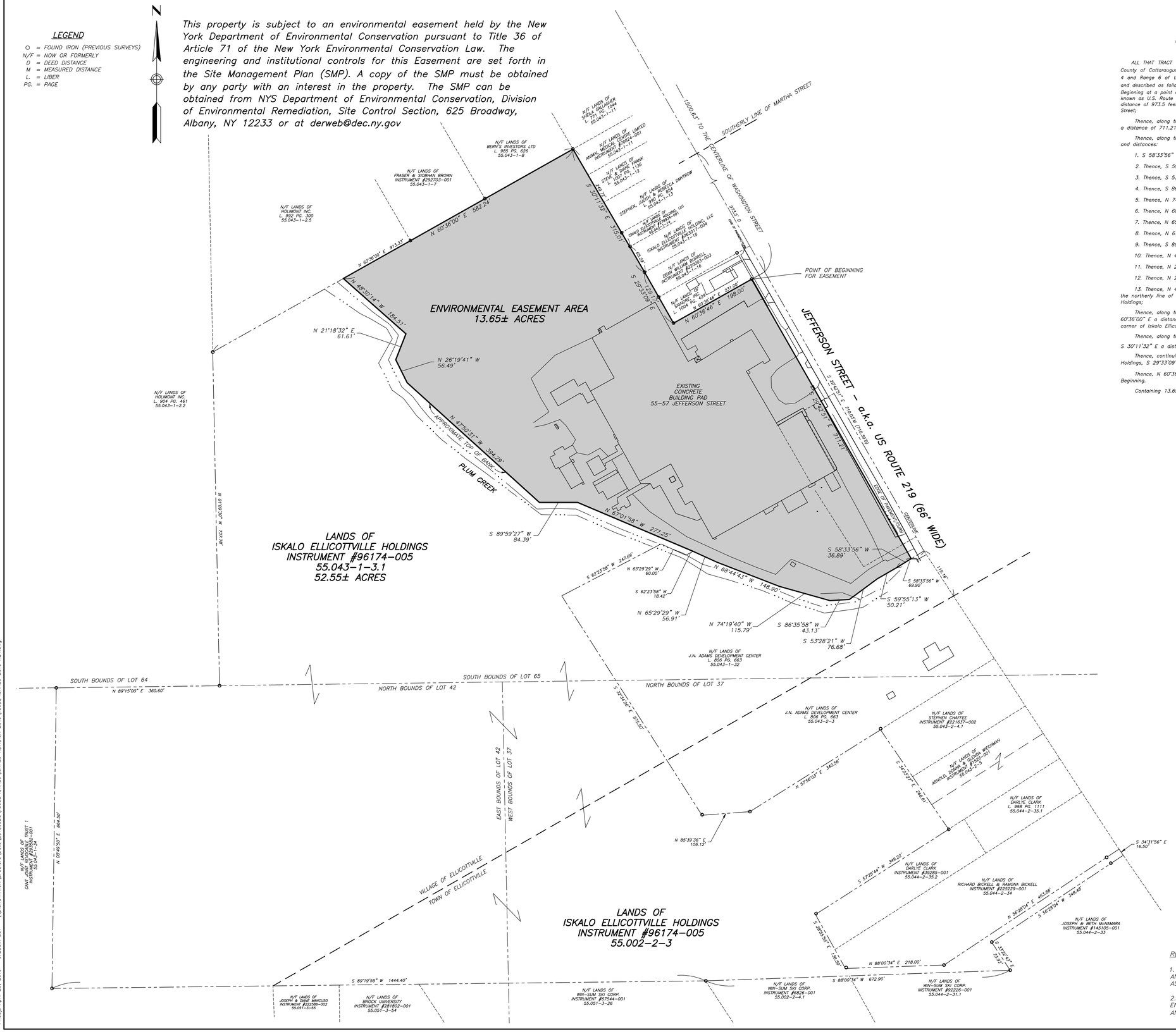
Thence, N 60°36'46" E a distance of 198.00 feet to the Point of Beginning.

Containing 13.65 acres of land, more or less.

LEGEND

O = FOUND IRON (PREVIOUS SURVEYS)
N/F = NOW OR FORMERLY
D = DEED DISTANCE
M = MEASURED DISTANCE
L. = LIBER
PG. = PAGE

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



ENVIRONMENTAL EASEMENT AREA DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the Village of Ellicottville, County of Cattaraugus and State of New York, being part of Lot 65 of Town 4 and Range 6 of the Holland Land Company's Survey and further bounded and described as follows:

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Thence, along the westerly bounds of Jefferson Street, S 29°42'51" E a distance of 711.21 feet to a point on the top of bank of Plum Creek;

Thence, along the top of bank of Plum Creek, the following courses and distances:

1. *S 58°33'56" W a distance of 36.89 feet to a point;*
2. *Thence, S 59°55'13" W a distance of 50.21 feet to a point;*
3. *Thence, S 53°28'21" W a distance of 76.68 feet to a point;*
4. *Thence, S 86°35'58" W a distance of 43.13 feet to a point;*
5. *Thence, N 74°19'40" W a distance of 115.79 feet to a point;*
6. *Thence, N 68°44'43" W a distance of 148.90 feet to a point;*
7. *Thence, N 65°29'29" W a distance of 56.91 feet to a point;*
8. *Thence, N 67°01'58" W a distance of 277.25 feet to a point;*
9. *Thence, S 89°59'27" W a distance of 84.39 feet to a point;*
10. *Thence, N 47°50'31" W a distance of 394.29 feet to a point;*
11. *Thence, N 26°19'41" W a distance of 56.49 feet to a point;*
12. *Thence, N 21°18'32" E a distance of 61.61 feet to a point;*
13. *Thence, N 48°30'14" W a distance of 184.51 feet to a point on the northerly line of lands now or formerly owned by Iskalo Ellicottville Holdings;*

Thence, along the northerly line of Iskalo Ellicottville Holdings, N 60°36'00" E a distance of 582.24 feet to a point at the northeasterly corner of Iskalo Ellicottville Holdings;

Thence, along the easterly line of Iskalo Ellicottville Holdings, S 30°11'32" E a distance of 315.01 feet to a point;

Thence, continuing along the easterly line of Iskalo Ellicottville Holdings, S 29°33'09" E a distance of 129.17 feet to a point;

Thence, N 60°36'46" E a distance of 198.00 feet to the Point of Beginning.

Containing 13.65 acres of land, more or less.

REFERENCE MAPS USED:

1. *"BROWNFIELD EASEMENT" PREPARED BY E&M ENGINEERS AND SURVEYORS, PC, DATED MAY 7, 2015 AND REFERENCED AS FILE No. D14–692.*
2. *"BOUNDARY–TOPOGRAPHICAL MAP" PREPARED BY E&M ENGINEERS AND SURVEYORS, PC, DATED DECEMBER 10, 2007 AND REFERENCED AS FILE No. E–07–37/42/65–825–X.*

E&M Engineers and Surveyors PC
SERVING PENNSYLVANIA AND NEW YORK SINCE 1946
24 DERRICK ROAD
BRADFORD, PENNSYLVANIA 16701
TELEPHONE: (814) 362–5546
FAX: (814) 362–3023
www.emengineers.com

ANDREW S. ROSENBERGER, P.L.S. No. 051098
AGENT FOR E&M ENGINEERS AND SURVEYORS, P.C.

NOTES:

1. *THIS SURVEY IS SUBJECT TO SUCH FACTS AS MAY BE DISCLOSED IN A TITLE SEARCH.*
2. *TO BE VALID, COPIES HEREOF MUST CONTAIN THE LAND SURVEYOR'S ORIGINAL SIGNATURE AND EMBOSSED SEAL.*
3. *THIS SURVEY IS IN ACCORDANCE WITH THE EXISTING CODE OF PRACTICE FOR LAND SURVEYORS OF THE NEW YORK STATE ASSOCIATION OF PROFESSIONAL LAND SURVEYORS.*
4. *TAX PARCEL LINE OF ADJOINERS ARE APPROXIMATE; LINES WERE NOT SURVEYED.*
5. *THE INTENTION OF THIS MAP WAS TO SHOW NEW LIMITS FOR THE EASEMENT AREA. NO FIELD WORK WAS PERFORMED AT THIS TIME.*

REVISIONS

No.	DATE	DESCRIPTION

ISKALO ELLICOTTVILLE HOLDINGS
CONTACT PERSON: DAVID CHIAZZA
5166 MAIN STREET
WILLIAMSVILLE, NY 14221
CLIENT TELEPHONE: (716) 633–2096

SURVEY OF 13.65± ACRES LOCATED AT 55–57 JEFFERSON STREET

ENVIRONMENTAL EASEMENT AREA SURVEY

TOWN & VILLAGE OF ELLICOTTVILLE
CATTARAUGUS COUNTY
NEW YORK

0m 25m 50m 75m 100m
0' 50' 100' 150' 200'

SCALE: 1" = 100'	JOB NO. 18082		
H.L.C. SURVEY INFO: LOT 65,42&37	T 4	R 6	
DRAWN BY: JGH	BK. ---	PG. ---	
CHECKED BY: ASR	DATE: 11/01/2018		
FILE NO. D14–832			

Friday, April 26, 2019 – 9:28am EST \\DISKSTATION\Bradford\Data\2018\2BS\18082 ISKALO\ISKALO REVISION 2019\18082 ISKALO 2019 REV.dwg

APPENDIX B – LIST OF SITE CONTACTS

Name	Phone/Email Address
Site Owner/Remedial Party: Iskalo Ellicottville Holdings LLC Mr. David Chiazza	Iskalo Ellicottville Holdings LLC, c/o Iskalo Development Corp., Manager (716) 633-2096 dchiazza@Iskalo.com
Qualified Env. Professional: Mr. Bart A. Klettke, P.E. GZA GeoEnvironmental of New York	 (716) 844-7035 bart.klettke@gza.com
NYSDEC Project Manager: MS. Megan Kuczka	(716) 851-7220 megan.kuczka@dec.ny.gov
Ms. Andrea Caprio	(716) 851-7220 andrea.caprio@dec.ny.gov
NYSDEC Site Control	(518) 402-9567 derweb@dec.ny.gov
Attorney for Remedial Party: Mr. David Flynn	(716) 847-5473 dflynn@phillipslytle.com
NYSDOH Project Manager Angela Martin	(518) 402-7860 angela.martin@health.ny.gov
Cattaraugus Department of Health	(716) 373-8050

APPENDIX C

SOIL BORING AND WELL CONSTRUCTION LOGS

The locations of soil borings and monitoring wells are shown on Figures 3 and 5

TEST PIT FIELD LOG

Project Description: Signore Inc.
Project location: 55-57 Jefferson St.
GZA Representative: Thomas Bohlen
Contractor: TREC Environmental
Operator: Jim Agar
Make: Takeuchi Model: TB 175

Test Pit No: TP-9
Location:
File No: 21.0056367.40
Date: 9/25/2012
Weather:
Ground elev.:

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
0.5			Asphalt and Subbase.	0
1			Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	
1.5				
2				
2.5			Gray CLAY and SILT, trace Gravel, trace Sand, moist.	0
3				
3.5				
4				
4.5				0
5				
5.5			Brown and Gray mottled Silty CLAY, little Sand, moist.	
6				
6.5				0
7				
7.5				
8				
8.5				0
9				
9.5				
10			End of Excavation at 10 feet below ground surface.	

REMARKS:

TEST PIT FIELD LOG

Project Description: Signore Inc.
Project location: 55-57 Jefferson St.
GZA Representative: Thomas Bohlen
Contractor: TREC Environmental
Operator: Jim Agar
Make: Takeuchi Model: TB 175

Test Pit No: TP-10
Location:
File No: 21.0056367.40
Date: 9/25/2012
Weather:
Ground elev.:

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
0.5			Asphalt and Subbase.	0
1			Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	
1.5			Gray CLAY and SILT, trace Gravel, trace Sand, moist.	
2				
2.5				0
3				
3.5				
4				
4.5				0
5				
5.5			Brown and Gray mottled Silty CLAY, little Sand, moist.	
6				
6.5				0
7				
7.5			pipe in southeast corner of excavation damaged by excavator - unpressurized water observed to flow out of pipe into bottom of excavation	
8				
8.5			End of Excavation at 8 feet below ground surface.	0
9				
9.5				
10				

REMARKS: 1-inch microwell and roadbox installed adjacent and west of TP-9. Installed microwell with truck-mounted geoprobe rig using a blind point tip on macrocore sampler. BOW = 19' bgs., Screened 4-19', Sand Pack 2'-19', Granular Bentonite 0-2'. Well installed on 9/28/12. Water level: 9/28/12 - 8:55 - 10.81' bgs.

TEST PIT FIELD LOG

Project Description: Signore Inc.
Project location: 55-57 Jefferson St.
GZA Representative: Thomas Bohlen
Contractor: TREC Environmental
Operator: Jim Agar
Make: Takeuchi Model: TB 175

Test Pit No: TP-11
Location:
File No: 21.0056367.40
Date: 9/25/2012
Weather:
Ground elev.:

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
0.5			Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	0
1				
1.5				
2				
2.5			Brown and Gray mottled Silty CLAY, little Sand, trace Gravel, moist.	0
3			12-inch diameter corregated steel pipe observed in southern portion of excavation at 2' bgs.	
3.5				
4			Grades to: trace Sand.	
4.5				0
5				
5.5				
6				
6.5				0
7				
7.5			Grades to: Gray.	
8				
8.5				0.6
9				
9.5				
10			End of Excavation at 10 feet below ground surface.	

REMARKS: 1-inch microwell and roadbox installed adjacent and south of TP-10. Installed microwell with truck-mounted geoprobe rig using a blind point tip on macrocore sampler. BOW = 19.5' bgs., Screened 4.5-19.5', Sand Pack 3'-19.5', Granular Bentonite 0-3'. Well installed on 9/28/12. Water level: 9/28/12 - 9:45 - 12.22' bgs.

TEST PIT FIELD LOG

Project Description: Signore Inc.
Project location: 55-57 Jefferson St.
GZA Representative: Thomas Bohlen
Contractor: TREC Environmental
Operator: Jim Agar
Make: Takeuchi Model: TB 175

Test Pit No: TP-12
Location:
File No: 21.0056367.40
Date: 9/25/2012
Weather:
Ground elev.:

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
0.5			Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	0
1				
1.5				
2				
2.5				0
3				
3.5				
4				
4.5				0
5				
5.5			Grades to: large Gravel (~8-inches maximum) observed.	
6			Grades to: wet.	
6.5				0
7				
7.5				
8				
8.5			End of Excavation at 8 feet below ground surface due to hole collapse.	
9				
9.5				
10				

REMARKS:

TEST PIT FIELD LOG

Project Description: Signore Inc.
Project location: 55-57 Jefferson St.
GZA Representative: Thomas Bohlen
Contractor: TREC Environmental
Operator: Jim Agar
Make: Takeuchi Model: TB 175

Test Pit No: TP-13
Location:
File No: 21.0056367.40
Date: 9/25/2012
Weather:
Ground elev.:

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
0.5			Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	0
1				
1.5				
2				
2.5				0
3				
3.5			Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand, moist.	
4				
4.5			Brown GRAVEL and SAND, little Silt, little Clay, wet.	0
5				
5.5				
6				
6.5				0
7				
7.5			Brown SAND, some Gravel, trace Silt, trace Clay, moist.	
8				
8.5				0
9				
9.5				
10			End of Excavation at 10 feet below ground surface.	

REMARKS: 1-inch microwell and roadbox installed adjacent and south of TP-13. Installed microwell with truck-mounted geoprobe rig using a blind point tip on macrocore sampler. BOW = 19' bgs., Screened 9-19', Sand Pack 3'-19', Granular Bentonite 0-3'. Well installed on 10/1/12. Water level: 10/1/12 - 14:45 - 9.94' bgs.

TEST PIT FIELD LOG

Project Description: Signore Inc.
Project location: 55-57 Jefferson St.
GZA Representative: Thomas Bohlen
Contractor: TREC Environmental
Operator: Jim Agar
Make: Takeuchi Model: TB 175

Test Pit No: TP-14
Location:
File No: 21.0056367.40
Date: 9/26/2012
Weather:
Ground elev.:

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
0.5			Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	0
1				
1.5				
2			Brown Bank-run GRAVEL (2-inches).	
2.5			Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	0
3				
3.5			Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand, moist.	
4				
4.5				0
5				
5.5			Brown GRAVEL, some Sand, little Silt, little Clay, wet.	
6				
6.5				0
7				
7.5				
8				
8.5				0
9				
9.5				
10			End of Excavation at 10 feet below ground surface.	

REMARKS:

TEST PIT FIELD LOG

Project Description: Signore Inc.
Project location: 55-57 Jefferson St.
GZA Representative: Thomas Bohlen
Contractor: TREC Environmental
Operator: Jim Agar
Make: Takeuchi Model: TB 175

Test Pit No: TP-15
Location:
File No: 21.0056367.40
Date: 9/26/2012
Weather:
Ground elev.:

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
0.5			Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	0
1				
1.5				
2				
2.5				0
3				
3.5			Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand, moist.	
4				
4.5			Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	0
5				
5.5				
6				
6.5				0
7			Reddish Dark Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	
7.5				
8				
8.5				0
9				
9.5			Grades to: wet.	
10			End of Excavation at 10 feet below ground surface.	

REMARKS: 1-inch microwell and roadbox installed adjacent and south of TP-15. Installed microwell with truck-mounted geoprobe rig using a blind point tip on macrocore sampler. BOW = 18' bgs., Screened 8-18', Sand Pack 3'-18', Granular Bentonite 0-3'. Well installed on 10/1/12. Water level: 10/1/12 - 14:05 - 9.73' bgs.

TEST PIT FIELD LOG

Project Description: Signore Inc.
Project location: 55-57 Jefferson St.
GZA Representative: Thomas Bohlen
Contractor: TREC Environmental
Operator: Jim Agar
Make: Takeuchi Model: TB 175

Test Pit No: TP-16
Location:
File No: 21.0056367.40
Date: 9/26/2012
Weather:
Ground elev.:

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
0.5			Concrete (0.8' - very difficult on excavator).	0
1				
1.5			Brown GRAVEL, some Sand, trace Silt, trace Clay, moist. Large Gravel (~8-inch maximum) observed.	
2				
2.5				0
3			Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	
3.5				
4				
4.5				0
5				
5.5				
6				
6.5				0
7				
7.5			Grades to: Large Gravel (~8-inches maximum) observed.	
8				
8.5				0
9			Grades to: wet.	
9.5				
10			End of Excavation at 11.5 feet below ground surface.	

REMARKS:

TEST PIT FIELD LOG

Project Description: Signore Inc.
Project location: 55-57 Jefferson St.
GZA Representative: Thomas Bohlen
Contractor: TREC Environmental
Operator: Jim Agar
Make: Takeuchi Model: TB 175

Test Pit No: TP-17
Location:
File No: 21.0056367.40
Date: 9/26/2012
Weather:
Ground elev.:

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
0.5			Concrete	0
1			Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	
1.5				
2				
2.5				0
3				
3.5			Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand, moist.	
4			Gray Silty CLAY, moist	
4.5				0
5				
5.5			Brown GRAVEL and SAND, little Silt, little Clay, moist.	
6				
6.5				0
7				
7.5				
8				
8.5			Grades to: Large Gravel (~8-inches maximum) observed.	0
9				
9.5				
10			End of Excavation at 10 feet below ground surface.	

REMARKS:

TEST PIT FIELD LOG

Project Description: Signore Inc.
Project location: 55-57 Jefferson St.
GZA Representative: Thomas Bohlen
Contractor: TREC Environmental
Operator: Jim Agar
Make: Takeuchi Model: TB 175

Test Pit No: TP-18
Location:
File No: 21.0056367.40
Date: 9/26/2012
Weather:
Ground elev.:

DEPTH (feet)	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION	PID
0.5			Clean Bank-Run Gravel, moist.	0
1				
1.5				
2				
2.5			Brown Silty CLAY, trace Sand, moist.	0
3			End of Excavation at 2.3 feet bgs.	
3.5				
4				
4.5				0
5				
5.5				
6				
6.5				0
7				
7.5				
8				
8.5				0
9				
9.5				
10			End of Excavation at 10 feet below ground surface.	

REMARKS: Test pit located within a concrete-curbed former transformer pad. Bank-Run Gravel removed from within concrete curbing to native soil at 2.3' bgs. This material sampled for SVOCs (bn), PCBs, and Metals (TAL) as per Chad Staniszewski, NYSDEC.

Signore Inc.
55-57 Jefferson Street
Ellicottville, NY
Supplemental Remedial Investigation

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/27/12	END DATE 9/27/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	SAMPLE INFORMATION			SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	Sample Number	DEPTH (FT)	RECOVERY (%)			
	S-1	0-2	20	Concrete (4-inches).		0
1				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
2						
	S-2	2-4	20			0
3						
4						
	S-3	4-6	60			0
5						
6						
	S-4	6-8	60			0
7				Brown Silty CLAY, little Sand, trace Gravel, moist.		
8						
	S-5	8-10	80			0
9						
10						
	S-6	10-12	80			0
11				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
				Grades to: wet.		
12						
	S-7	12-14	50			0
13						
14						
	S-8	14-16	50			0
15						
16						
	S-9	16-18	80			0
17						
18						
	S-10	18-20	80			0
19						
20				End of soil probe at 20' below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/27/12	END DATE 9/27/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	SAMPLE INFORMATION			SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	Sample Number	DEPTH (FT)	RECOVERY (%)			
	S-1	0-2	90	Concrete (4-inches).		0
1				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	S-2	2-4	90			0
3						
				Grades to: some Gravel.		
4				Grades to: trace Gravel.		
	S-3	4-6	80			0
5						
6						
	S-4	6-8	80			0
7						
				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
8						
	S-5	8-10	70			0
9						
				Grades to: wet.		
10						
	S-6	10-12	70			0
11						
12						
	S-7	12-14	40			0
13						
14						
	S-8	14-16	40			0
15						
16						
	S-9	16-18	50			0
17						
18						
	S-10	18-20	50			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Signore Inc.
55-57 Jefferson Street
Ellicottville, NY
Supplemental Remedial Investigation

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/27/12	END DATE 9/27/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING
9/27/2012	12:46	9.87 (TOC)	

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	100	Concrete (4-inches).	1-inch diameter microwell and roadbox installed.	0
1				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	S-2	2-4	100		BOW = 19' bgs.	0
3						
					Screened: 9'-19' bgs.	
4						
	S-3	4-6	95		Sand pack: 7'-19' bgs.	0
5						
					Granular bentonite: 0-7' bgs.	
6						
	S-4	6-8	95	Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		0
7						
8						
	S-5	8-10	80			0
9						
10						
	S-6	10-12	80			0
11						
				Grades to: wet.		
12						
	S-7	12-14	10			0
13						
14						
	S-8	14-16	10			0
15						
16						
	S-9	16-18	60			0
17						
18						
	S-10	18-20	60			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/27/12	END DATE 9/27/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	95	Concrete (4-inches).		0
1				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
2				Brown and Gray mottled Silty CLAY, trace Sand, moist.		
	S-2	2-4	95		Duplicate VOC analytical sample taken: 2'-4'.	0
3						
4						
	S-3	4-6	85			0
5				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
6						
	S-4	6-8	85			0
7						
8						
	S-5	8-10	70			0
9						
10						
	S-6	10-12	70			0
11						
12						
	S-7	12-14	30	Grades to: wet.		0
13						
14						
	S-8	14-16	30			0
15						
16						
	S-9	16-18	50			0
17						
18						
	S-10	18-20	50			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/27/12	END DATE 9/27/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	10	Concrete (4-inches).		0
1				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
2						
	S-2	2-4	10			0
3						
4						
	S-3	4-6	90	Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,		0
5				moist (8-inches).		
				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
6						
	S-4	6-8	90			0
7						
8						
	S-5	8-10	55			0
9						
10						
	S-6	10-12	55			0
11						
12				Grades to: wet.		
	S-7	12-14	50			0
13						
14						
	S-8	14-16	50			0
15						
16						
	S-9	16-18	80			0
17						
18						
	S-10	18-20	80			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/27/12	END DATE 9/27/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	60	Concrete (4-inches).	1-inch diameter	0
1				Brown GRAVEL and SAND, trace Silt, trace Clay, moist	microwell and roadbox	
				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,	installed.	
2				moist.		
	S-2	2-4	60		BOW = 20' bgs.	0
3						
					Screened: 10'-20' bgs.	
4						
	S-3	4-6	80		Sand pack: 6'-20' bgs.	0
5						
					Granular bentonite:	
6					0-6' bgs.	
	S-4	6-8	80			0
7				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
8						
	S-5	8-10	85			0
9						
10						
	S-6	10-12	85			0
11						
12				Grades to: wet.		
	S-7	12-14	20			0
13						
14						
	S-8	14-16	20			0
15						
16						
	S-9	16-18	90			0
17						
18						
	S-10	18-20	90			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

General Notes:
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Signore Inc.
55-57 Jefferson Street
Ellicottville, NY
Supplemental Remedial Investigation

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/27/12	END DATE 9/27/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	60	Concrete (4-inches).		0
1				Brown GRAVEL and SAND, trace Silt, trace Clay, moist		
				(8-inches).		
2				Brown Silty CLAY, trace Gravel, trace Sand, moist.		
	S-2	2-4	60			0
3						
4				Brown GRAVEL and SAND, trace Silt, trace Clay, moist		
	S-3	4-6	70	Brown Silty CLAY, trace Gravel, trace Sand, moist.		0
5						
6						
	S-4	6-8	70			0
7				Brown GRAVEL and SAND, trace Silt, trace Clay, moist		
8						
	S-5	8-10	40			0
9						
10						
	S-6	10-12	40			0
11						
12				Grades to: wet.		
	S-7	12-14	45			0
13						
14						
	S-8	14-16	45			0
15						
16						
	S-9	16-18	50			0
17						
18						
	S-10	18-20	50			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

General Notes:
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CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/27/12	END DATE 9/27/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2		Concrete (4-inches).	1-inch diameter	0
1				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	microwell and roadbox	
				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,	installed.	
2				moist.		
	S-2	2-4		Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	BOW = 19' bgs.	0
3				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,		
				moist.	Screened: 9'-19' bgs.	
4						
	S-3	4-6			Sand pack: 6'-19' bgs.	0
5						
					Granular bentonite:	
6					0-6' bgs.	
	S-4	6-8				0
7						
				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
8						
	S-5	8-10				0
9						
10						
	S-6	10-12				0
11						
				Grades to: wet.		
12						
	S-7	12-14				0
13						
14						
	S-8	14-16				0
15						
16						
	S-9	16-18				0
17						
18						
	S-10	18-20				0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

General Notes:
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CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/27/12	END DATE 9/27/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING
9/27/2012	17:40	10.82 (TOC)	

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	80	Concrete (4-inches).	1-inch diameter	0
1				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	microwell and roadbox	
				Brown and Gray motled Silty CLAY, trace Gravel, trace Sand,	installed.	
2				moist.		
	S-2	2-4	80		BOW = 19' bgs.	0
3						
					Screened: 9'-19' bgs.	
4				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
	S-3	4-6	70		Sand pack: 3'-19' bgs.	0
5						
					Granular bentonite:	
6					0-3' bgs.	
	S-4	6-8	70			0
7						
				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,		
8				moist.		
	S-5	8-10	85			0
9						
				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
10						
	S-6	10-12	85			0
11						
12						
	S-7	12-14	10			0
13						
				Grades to: wet.		
14						
	S-8	14-16	10			0
15						
16						
	S-9	16-18	40			0
17						
18						
	S-10	18-20	40			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

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Signore Inc.
55-57 Jefferson Street
Ellicottville, NY
Supplemental Remedial Investigation

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/28/12	END DATE 9/28/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	70	Concrete (4-inches).	1-inch diameter	0
1				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	microwell and roadbox	
				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,	installed.	
2				moist.		
	S-2	2-4	70	Gray CLAY and SILT, moist.	BOW = 20' bgs.	0
3						
					Screened: 10'-20' bgs.	
4						
	S-3	4-6	100		Sand pack: 4'-20' bgs.	0
5				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,		
				moist.	Granular bentonite:	
6					0-4' bgs.	
	S-4	6-8	100			0
7						
8						
	S-5	8-10	100			0
9						
10						
	S-6	10-12	100			0
11						
				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
12						
	S-7	12-14	100	Grades to: wet (4-inches).		0
13				Grades to: moist.		
14						
	S-8	14-16	100			0
15						
16						
	S-9	16-18	90	Grades to: wet.		0
17						
18						
	S-10	18-20	90			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

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Signore Inc.
55-57 Jefferson Street
Ellicottville, NY
Supplemental Remedial Investigation

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/28/12	END DATE 9/28/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING
9/28/2012	14:50	12.58	Top of roadbox

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	30	Concrete (4-inches).	1-inch diameter	0
1				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	microwell and roadbox	
				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,	installed.	
2				moist.		
	S-2	2-4	30		BOW = 20' bgs.	0
3						
					Screened: 10'-20' bgs.	
4						
	S-3	4-6	100		Sand pack: 3'-20' bgs.	0
5						
					Granular bentonite:	
6					0-3' bgs.	
	S-4	6-8	100			0
7						
8						
	S-5	8-10	100			0
9						
				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
10						
	S-6	10-12	100			0
11						
12				Grades to: wet (4-inches).		
	S-7	12-14	90	Grades to: moist.		0
13						
				Grades to: wet.		
14						
	S-8	14-16	90			0
15						
16						
	S-9	16-18	40			0
17						
18						
	S-10	18-20	40			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

General Notes:
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Signore Inc.
55-57 Jefferson Street
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Supplemental Remedial Investigation

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/28/12	END DATE 9/28/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	60	Concrete (4-inches).		0
1				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
2						
	S-2	2-4	60			0
3						
				Gray CLAY and SILT, moist.		
4						
	S-3	4-6	55			0
5						
6						
	S-4	6-8	55	Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,		0
7				moist.		
8						
	S-5	8-10	10			0
9						
10						
	S-6	10-12	10			0
11						
				Grades to: wet (4-inches).		
12				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
	S-7	12-14	100	Grades to: wet.		0
13						
14						
	S-8	14-16	100			0
15						
				Grades to: little Silt, little Clay.		
16						
	S-9	16-18	70			0
17						
18						
	S-10	18-20	70			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

General Notes:
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CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 9/28/12	END DATE 9/28/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING
9/28/2012	14:55	2.62 TOC	

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	0	Concrete (6-inches).	1-inch diameter	0
1				approximate 4-inch void under concrete	microwell and roadbox	
					installed.	
2						
	S-2	2-4	0	NO RECOVERY	BOW = 20' bgs.	0
3						
					Screened: 10'-20' bgs.	
4						
	S-3	4-6	100	Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,	Sand pack: 6'-20' bgs.	0
5				moist.		
					Granular bentonite:	
6					0-6' bgs.	
	S-4	6-8	100			0
7						
8						
	S-5	8-10	30	Brown GRAVEL and SAND, little Silt, little Clay, wet.		0
9						
10						
	S-6	10-12	30			0
11						
				Brown Silty CLAY, trace Gravel, trace Sand, wet.		
12				Brown GRAVEL and SAND, little Silt, little Clay, wet.		
	S-7	12-14	100	Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand, wet.		0
13						
				Grades to: moist.		
14						
	S-8	14-16	100			0
15						
				Brown GRAVEL and SAND, trace Silt, trace Clay, wet.		
16						
	S-9	16-18	100			0
17						
18						
	S-10	18-20	100			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

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CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 10/1/12	END DATE 10/1/2012	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING
10/1/2012	10:30	8.32 TOC	

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	SAMPLE INFORMATION: Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	80	Concrete (7-inches).	1-inch diameter microwell and roadbox installed.	0
1				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	S-2	2-4	80		BOW = 20' bgs.	0
3						
					Screened: 5'-20' bgs.	
4						
	S-3	4-6	70		Sand pack: 1'-20' bgs.	0
5						
					Granular bentonite: 0-1' bgs.	
6						
	S-4	6-8	70			0
7						
8				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
	S-5	8-10	90	Grades to: wet.		0
9						
10				Grades to: little Silt, little Clay, moist.		
	S-6	10-12	90			0
11						
12						
	S-7	12-14	50	Grades to: wet.		0
13						
14						
	S-8	14-16	50			0
15						
				Grades to: trace Silt, trace Clay.		
16						
	S-9	16-18	70			0
17						
18						
	S-10	18-20	70			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

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CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 10/1/12	END DATE 10/1/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	100	Concrete (4-inches).		0
1				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand, moist.		
2						
	S-2	2-4	100			0
3						
4						
	S-3	4-6	100			0
5						
6						
	S-4	6-8	100			0
7						
				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
8						
	S-5	8-10	70	Grades to: wet.		0
9						
10						
	S-6	10-12	70			0
11						
12						
	S-7	12-14	80			0
13						
14						
	S-8	14-16	80			0
15						
16						
	S-9	16-18	50			0
17						
18						
	S-10	18-20	50			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

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Signore Inc.
55-57 Jefferson Street
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CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 10/1/12	END DATE 10/1/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING
10/1/2012	13:25	11.93 TOC	

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	50	Concrete (5-inches).	1-inch diameter	0
1				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	microwell installed.	
2						
	S-2	2-4	50		BOW = 19.2' bgs.	0
3						
				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,	Screened: 9.2'-19.2' bgs.	
4				moist.		
	S-3	4-6	95		Sand pack: 5'-19.2' bgs.	0.2
5						
					Granular bentonite:	
6					0-5' bgs.	
	S-4	6-8	95			0
7						
					Roadbox not installed	
8					at this location (coring	
	S-5	8-10	100	Grades to: wet.	equipment off-Site	0
9					9/28/12).	
10						
	S-6	10-12	100	Brown GRAVEL and SAND, trace Silt, trace Clay, wet.		0
11						
12						
	S-7	12-14	100			0
13						
14						
	S-8	14-16	100			0
15						
16						
	S-9	16-18	80			0
17						
18						
	S-10	18-19.2	80			0
19						
				Refusal at 19.2 feet below ground surface.		
20						

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CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 10/1/12	END DATE 10/1/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	90	Topsoil		0
1				Brown Silty CLAY, trace Sand, moist.		
2						
	S-2	2-4	90			0
3						
4						
	S-3	4-6	100			0
5				Grades to: Brown and Gray mottled.		
6						
	S-4	6-8	100			0
7						
8						
	S-5	8-10	100			0
9						
10				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
	S-6	10-12	100			0
11						
12						
	S-7	12-14	80			0
13						
14						
	S-8	14-16	80			0
15						
16				Grades to: wet.		
	S-9	16-18	60			0
17						
18						
	S-10	18-20	60			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

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Ellicottville, NY
Supplemental Remedial Investigation

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 10/2/12	END DATE 10/2/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING
10/2/2012	9:20	18.82 TOR	

TYPE OF DRILL RIG	Geoprobe GH 42
CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	SAMPLE INFORMATION			SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	Sample Number	DEPTH (FT)	RECOVERY (%)			
	S-1	0-2	60	Topsoil	1-inch diameter	0
1				Brown Silty CLAY, trace Sand, moist.	microwell installed.	
					Stick-up = 3.25'	
2						
	S-2	2-4	60	Brown GRAVEL and SAND, trace Silt, trace Clay, moist.	BOW = 19' bgs.	0
3						
					Screened: 9'-19' bgs.	
4						
	S-3	4-6	80		Sand pack: 3'-19' bgs.	0
5						
					Granular bentonite:	
6					0-3' bgs.	
	S-4	6-8	80			0
7						
8						
	S-5	8-10	80			0
9						
10						
	S-6	10-12	80			0
11				Grades to: wet.		
12						
	S-7	12-14	50			0
13						
14						
	S-8	14-16	50			0
15						
16						
	S-9	16-18	40			0
17						
18						
	S-10	18-20	40			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
C - Rock Core Sample

NOTES: MiniRAE 3000 was used to field screen and headspace soil samples.

General Notes:
1) Stratification lines represent approximate boundry between soil types, transitions may be gradual.
2) Water level readings have been made at times and under conditions stated, fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
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DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	60	Topsoil		0
1				Brown Silty CLAY, trace Sand, moist.		
2						
	S-2	2-4	60			0
3						
4						
	S-3	4-6	60			0
5						
6						
	S-4	6-8	60			0
7				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
8				Brown and Gray mottled Silty CLAY, trace Gravel, trace Sand,		
	S-5	8-10	100	moist.		0
9						
10						
	S-6	10-12	100			0
11						
12						
	S-7	12-14	100			0
13				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
14						
	S-8	14-16	100			0
15						
16						
	S-9	16-18	80			0
17						
18						
	S-10	18-20	80			0
19						
				Grades to: wet.		
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
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Signore Inc.
55-57 Jefferson Street
Ellicottville, NY
Supplemental Remedial Investigation

CONTRACTOR	TREC Environmental	BORING LOCATION	See Site Plan
DRILLER	Jim Agar	GROUND SURFACE ELEVATION	NM DATUM NA
START DATE 10/2/12	END DATE 10/2/12	GZA GEOENVIRONMENTAL REPRESENTATIVE: T. Bohlen	

WATER LEVEL DATA

DATE	TIME	WATER	CASING

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CASING SIZE AND DIAMETER	2" diameter by 48" long
OVERBURDEN SAMPLING METHOD	Direct push
ROCK DRILLING METHOD	NA

DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
	S-1	0-2	70	Topsoil		0
1				Brown Silty CLAY, trace Sand, moist.		
2						
	S-2	2-4	70			0
3						
4						
	S-3	4-6	95			0
5						
6						
	S-4	6-8	95			0
7						
8						
	S-5	8-10	100	Grades to: Brown and Gray mottled.		0
9						
10						
	S-6	10-12	100			0
11						
12						
	S-7	12-14	100			0
13						
14						
	S-8	14-16	100			0
15						
				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
16						
	S-9	16-18	80			0
17						
18						
	S-10	18-20	80			0
19						
20				End of soil probe at 20 feet below ground surface.		

S - Split Spoon Sample
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DEPTH	Sample Number	DEPTH (FT)	RECOVERY (%)	SAMPLE DESCRIPTION	NOTES	OVM (ppm)
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1				Brown and Gray mottled Silty CLAY, trace Sand, moist.		
2						
	S-2	2-4	50			0
3						
4						
	S-3	4-6	80			0
5						
				Brown GRAVEL and SAND, trace Silt, trace Clay, moist.		
6						
	S-4	6-8	80			0
7						
8						
	S-5	8-10	60			0
9						
10						
	S-6	10-12	60			0
11						
12						
	S-7	12-14	40			0
13						
14						
	S-8	14-16	40			0
15						
16						
	S-9	16-18	50			0
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APPENDIX D – EXCAVATION WORK PLAN (EWP)

D-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the BCP Site owner or their representative will notify the NYSDEC. NYSDEC's current Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Guidance Document, and NYSDOH's current CAMP protocols will be adhered to during intrusive activities in accordance with DER-10. Table D-1 includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of BCP Site-related contact information is provided in Appendix B.

Table D-1: Notifications*

NYSDEC Project Manager	(716) 851-7200
NYSDEC Regional HW Engineer	(716) 851-7200
NYSDEC Site Control	(518) 402-9553
NYSDOH Project Manager Angela Martin	angela.martin@health.ny.gov
Cattaraugus Department of Health	phone: 716-373-8050

* Note: Notifications are subject to change and will be updated as necessary.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for Site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control;
- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;

- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120;
- A copy of the contractor's health and safety plan (HASP), in electronic format, if it differs from the HASP provided in Appendix H of this SMP;
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

D-2 SOIL SCREENING METHODS

Visual, olfactory and instrument-based (*e.g.*, photoionization detector) soil screening will be performed by a qualified environmental professional during all excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. Further discussion of off-site disposal of materials and on-site reuse is provided below.

D-3 SOIL STAGING METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by the NYSDEC.

D-4 MATERIALS EXCAVATION AND LOAD-OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material. Community air monitoring for VOCs and particulates will be performed during all ground intrusive activities in accordance with the NYSDOH's Generic Community Air Monitoring Plan and Fugitive Dust and Particulate Monitoring guidance. These reference documents are included as Appendix J.

The owner of the property and remedial party (if applicable) and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the Site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the Site.

Loaded vehicles leaving the Site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site, as appropriate. The qualified environmental professional will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the Site until the activities performed under this section are complete Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the Site are clean of dirt and other materials derived from the Site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to Site-derived materials.

D-5 MATERIALS TRANSPORT OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project Site.

Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during Site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

D-6 MATERIALS DISPOSAL OFF-SITE

All material excavated and removed from the BCP Site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of material from the BCP Site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from the BCP Site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, *i.e.*, hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic

Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

D-7 MATERIALS REUSE ON-SITE

The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer or impervious surface, and will not be reused within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the Site will not be reused on-site.

Material reuse on Site will comply with the requirements of NYSDEC DER 10 Section 5.I)4. See Table 2 below:

Table– 2 - Reuse of Soil [for Paragraph 5.4(e)4]

Soil on the Site Meets:	Reuse on the Site:	Off-site Export & Reuse:
Unrestricted Soil SCGs	Without restrictions	Without restrictions
Meets the Applicable Use-based and Groundwater Protection SCG and where Appropriate Protection of Ecological Resources Soil SCGs for a Site w/ an IC & SMP.	As backfill within the area of the Site subject to the IC.	Not Allowed, unless going to a Site with IC subject to a 6 NYCRR Part 360 Beneficial Use Determination (BUD).

D-8 FLUIDS MANAGEMENT

All liquids to be removed from the BCP Site, including but not limited to, excavation dewatering, decontamination waters and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the property, and will be managed off-site, unless prior approval is obtained from NYSDEC.

Discharge of water generated during large-scale construction activities to surface waters (*i.e.*, a local pond, stream or river) will be performed under a SPDES permit.

D-9 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the BCP Site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the BCP Site. A Request to Import/Reuse Fill or Soil form, which can be found at http://www.dec.ny.gov/regulations/67386.html, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the BCP Site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Imported soils must be comprised of soil or other unregulated material as set forth in 6NYCRR Part 360, and must not exceed the applicable soil cleanup objectives/soil quality standards for the BCP Site. Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards for the BCP Site are defined as the Part 375 Soil Cleanup Objectives (SCOs) for Restricted Residential Site Use, and are listed in the table referenced as Appendix 5 at the end of this section. Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill objectives for the BCP Site, will not be imported onto the BCP Site without prior approval by NYSDEC. Solid waste will not be imported onto the BCP Site. NYSDOT-approved aggregate sources may be imported to the BCP Site, provided that they also meet the backfill quality standards established in

6NYCRR 375-6.7(d). A current list of NYSDOT-approved aggregate sources can be found at https://www.dot.ny.gov/divisions/engineering/technical-services/materials-bureau/fine-coarse-aggregates.

Analytical data is required to demonstrate that the imported material complies with the Part 375 SCOs for Restricted Residential Site Use. The NYSDEC may issue a site-specific exemption from the analytical testing requirements, based upon documentation of the origin and composition of the material. All of the testing data must be reported to the NYSDEC for approval to import soil to the BCP Site. The table below lists the number of soil samples to be analyzed for soil imported to the BCP Site, according to quantity of soil to be imported. Soil samples will be analyzed for the following:

- TCL and CP-51 list VOCs via USEPA SW-846 Test Method 8260
- TCL SVOCs via USEPA SW-846 Test Method 8270
- TAL Metals via USEPA SW-846 Test Methods 6010/7470
- PCBs via USEPA SW-846 Test Method 8082
- Pesticides via USEPA SW-846 Test Method 8081

Recommended Number of Soil Samples for Soil Imported To or Exported From a Site

Contaminant	**VOCs**	**SVOCs, Inorganics & PCBs/Pesticides**	
Soil Quantity (cubic yards)	**Discrete Samples**	**Composite**	**Discrete Samples/Composite**
0-50	1	1	3-5 discrete samples from different locations in the fill being provided will comprise a composite sample for analysis
50-100	2	1	
100-200	3	1	
200-300	4	1	
300-400	4	2	
400-500	5	2	
500-800	6	2	
800-1000	7	2	
> 1000	Add an additional 2 VOC and 1 composite for each additional 1000 Cubic yards or consult with DER		

Trucks entering the BCP Site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials, on 6-mil plastic sheeting, and will be covered with similar plastic sheeting to prevent dust releases. Materials may be stockpiled in any location on-site which is feasible and safely accessed given the construction activities, which does not block or cover

monitoring wells. Prior to stockpiling activities, as an added precaution, a silt fence will be installed around the entire perimeter of the area where the stockpiling will occur. The silt fence will be maintained while the stockpiled soil is present in that area of the BCP Site. Weekly inspections will be completed to ensure the silt fence remains intact and operating as designed. Materials will be stockpiled to a maximum height of 7 feet above grade and at a maximum slope of 0.5, with at least 3 feet between the silt fence and the start of the slope.

Appendix 5
Allowable Constituent Levels for Imported Fill or Soil
Subdivision 5.4(e)

Source: This table is derived from soil cleanup objective (SCO) tables in 6 NYCRR 375. Table 375-6.8(a) is the source for unrestricted use and Table 375-6.8(b) is the source for restricted use.

Note: For constituents not included in this table, refer to the contaminant for supplemental soil cleanup objectives (SSCOs) in the Commissioner Policy on *Soil Cleanup Guidance*. If an SSCO is not provided for a constituent, contact the DER PM to determine a site-specific level.

Constituent	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial or Industrial Use	If Ecological Resources are Present
Metals					
Arsenic	13	16	16	16	13
Barium	350	350	400	400	433
Beryllium	7.2	14	47	47	10
Cadmium	2.5	2.5	4.3	7.5	4
Chromium, Hexavalent[1]	1 [3]	19	19	19	1 [3]
Chromium, Trivalent[1]	30	36	180	1500	41
Copper	50	270	270	270	50
Cyanide	27	27	27	27	NS
Lead	63	400	400	450	63
Manganese	1600	2000	2000	2000	1600
Mercury (total)	0.18	0.73	0.73	0.73	0.18
Nickel	30	130	130	130	30
Selenium	3.9	4	4	4	3.9
Silver	2	8.3	8.3	8.3	2
Zinc	109	2200	2480	2480	109
PCBs/Pesticides					
′4,4'-DDD	0.0033 [3]	2.6	13	14	0.0033 [3]
Aldrin	0.005	0.019	0.097	0.19	0.14
Alpha-BHC	0.02	0.02	0.02	0.02	0.04 [4]
Beta-BHC	0.036	0.072	0.09	0.09	0.6
Chlordane (alpha)	0.094	0.91	2.9	2.9	1.3
Delta-BHC	0.04	0.25	0.25	0.25	0.04 [4]
Dibenzofuran	7	14	59	210	NS
Dieldrin	0.005	0.039	0.1	0.1	0.006
Endosulfan I	2.4[2]	4.8	24	102	NS
Endosulfan II	2.4[2]	4.8	24	102	NS
Endosulfan sulfate	2.4[2]	4.8	24	200	NS
Endrin	0.014	0.06	0.06	0.06	0.014
Heptachlor	0.042	0.38	0.38	0.38	0.14
Lindane	0.1	0.1	0.1	0.1	6
Polychlorinated biphenyls	0.1	1	1	1	1

Constituent	Unrestricted Use	Residential Use	Restricted Residential Use	Commercial or Industrial Use	If Ecological Resources are Present
Semi-volatile Organic Compounds					
Acenaphthene	20	98	98	98	20
Acenaphthylene	100	100	100	107	NS
Anthracene	100	100	100	500	NS
Benzo(a)anthracene	1	1	1	1	NS
Benzo(a)pyrene	1	1	1	1	2.6
Benzo(b)fluoranthene	1	1	1	1.7	NS
Benzo(g,h,i)perylene	100	100	100	500	NS
Benzo(k)fluoranthene	0.8	1	1.7	1.7	NS
Chrysene	1	1	1	1	NS
Dibenz(a,h)anthracene	0.33 [3]	0.33 [3]	0.33 [3]	0.56	NS
Fluoranthene	100	100	100	500	NS
Fluorene	30	100	100	386	30
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	NS
m-Cresol(s)	0.33 [3]	0.33 [3]	0.33 [3]	0.33 [3]	NS
Naphthalene	12	12	12	12	NS
o-Cresol(s)	0.33 [3]	0.33 [3]	0.33 [3]	0.33 [3]	NS
p-Cresol(s)	0.33	0.33	0.33	0.33	NS
Pentachlorophenol	0.8 [3]	0.8 [3]	0.8 [3]	0.8 [3]	0.8 [3]
Phenanthrene	100	100	100	500	NS
Phenol	0.33 [3]	0.33 [3]	0.33 [3]	0.33 [3]	30
Pyrene	100	100	100	500	NS
Volatile Organic Compounds					
1,1,1-Trichloroethane	0.68	0.68	0.68	0.68	NS
1,1-Dichloroethane	0.27	0.27	0.27	0.27	NS
1,1-Dichloroethene	0.33	0.33	0.33	0.33	NS
1,2-Dichlorobenzene	1.1	1.1	1.1	1.1	NS
1,2-Dichloroethane	0.02	0.02	0.02	0.02	10
1,2-Dichloroethene(cis)	0.25	0.25	0.25	0.25	NS
1,2-Dichloroethene(trans)	0.19	0.19	0.19	0.19	NS
1,3-Dichlorobenzene	2.4	2.4	2.4	2.4	NS
1,4-Dichlorobenzene	1.8	1.8	1.8	1.8	20
1,4-Dioxane	0.1 [3]	0.1 [3]	0.1 [3]	0.1 [3]	0.1
Acetone	0.05	0.05	0.05	0.05	2.2
Benzene	0.06	0.06	0.06	0.06	70
Butylbenzene	12	12	12	12	NS
Carbon tetrachloride	0.76	0.76	0.76	0.76	NS
Chlorobenzene	1.1	1.1	1.1	1.1	40
Chloroform	0.37	0.37	0.37	0.37	12
Ethylbenzene	1	1	1	1	NS
Hexachlorobenzene	0.33 [3]	0.33 [3]	1.2	3.2	NS
Methyl ethyl ketone	0.12	0.12	0.12	0.12	100
Methyl tert-butyl ether	0.93	0.93	0.93	0.93	NS
Methylene chloride	0.05	0.05	0.05	0.05	12

Volatile Organic Compounds (continued)					
Propylbenzene-n	3.9	3.9	3.9	3.9	NS
Sec-Butylbenzene	11	11	11	11	NS
Tert-Butylbenzene	5.9	5.9	5.9	5.9	NS
Tetrachloroethene	1.3	1.3	1.3	1.3	2
Toluene	0.7	0.7	0.7	0.7	36
Trichloroethene	0.47	0.47	0.47	0.47	2
Trimethylbenzene-1,2,4	3.6	3.6	3.6	3.6	NS
Trimethylbenzene-1,3,5	8.4	8.4	8.4	8.4	NS
Vinyl chloride	0.02	0.02	0.02	0.02	NS
Xylene (mixed)	0.26	1.6	1.6	1.6	0.26

All concentrations are in parts per million (ppm)
NS = Not Specified

Footnotes:
[1] The SCO for Hexavalent or Trivalent Chromium is considered to be met if the analysis for the total species of this contaminant is below the specific SCO for Hexavalent Chromium.
[2] The SCO is the sum of endosulfan I, endosulfan II and endosulfan sulfate.
D [3] For constituents where the calculated SCO was lower than the contract required quantitation limit (CRQL), the CRQL is used as the Track 1 SCO value.
D [4] This SCO is derived from data on mixed isomers of BHC.

D-10 STORMWATER POLLUTION PREVENTION

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by the NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

Silt fencing or hay bales will be installed around the entire perimeter of the construction area.

D-11 EXCAVATION CONTINGENCY PLAN

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the Site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive Site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. These findings will be also included in the Periodic Review Report.

APPENDIX E – FIELD SAMPLING PLAN

GROUNDWATER MONITORING

The monitoring wells and analyses have been selected to provide data needed to meet the following objectives:

- Evaluation of the effectiveness of the injection on transforming dissolved-phase VOC mass, by observation of the effect of the injection on dissolved phase VOC concentrations;
- Evaluation of potential co-solvency and biosurfactant effects on dissolved-phase VOC mass, by observation of an initial effect of the injection on dissolved phase VOC concentrations;
- Evaluation of the effectiveness of the OC additive in transforming any residual VOC source mass, by observation of the longer-term effect of the injection on dissolved phase VOC concentrations; and,
- Evaluation of geochemical cVOC attenuation parameters and degradation signatures.

For the sampling events, a water quality meter and flow-through cell will be used to collect field measurements for pH, specific conductance, dissolved oxygen (DO), turbidity, oxygen reduction potential (ORP) and temperature. Disposable polyethylene tubing and a variable speed low-flow sampling pump will be utilized during the sampling events. Groundwater generated during the well purging will be discharged to the ground surface at the well from which it was generated.

Sampling Locations

Groundwater samples will be collected annually from seven post-injection monitoring wells on the BCP Site (EW-1.25R, SP-32, SP-37, SP-38, SP-43, SP-45, and TP-11) for VOC analysis via method 8260C. Groundwater samples will also be collected biennially from 12 wells (EW-1.25R, EW-1.5, EW-2.5, MW-1I, MW-2I, MW-4S,MW-5S, MW-9I, EW-4.5, IRM-1, IRM-2I, and Town Well). Note that well EW-1.25R is included in both sampling programs (Figure 3). Samples will be collected using low-flow sampling techniques. A peristaltic pump, disposable polyethylene tubing and a water quality meter with flow through cell will be used to collect water quality readings, including temperature, specific conductance, pH, turbidity, oxygen reduction potential (ORP), and dissolved oxygen (DO).

Groundwater pumping rates used during the sampling may vary at each monitoring location in order to establish a relatively constant head within the sampling location. Once a constant head is established within the monitoring well, the flow rate will be maintained during the sampling period to purge approximately three well volumes of groundwater. Samples will be collected for analysis when water quality readings stabilize. All 18 wells will be analyzed for VOC analysis Method 8260C.

Analyses

Each of the groundwater quality samples collected during the annual and biennial monitoring events will be submitted to an ELAP and NYSDEC approved analytical laboratory for analysis of VOCs by EPA Method 8260C.

APPENDIX F – QUALITY ASSURANCE PROJECT PLAN

QUALITY ASSURANCE PROJECT PLAN

FORMER SIGNORE SITE
ELLICOTTVILLE, NEW YORK

STATE SUPERFUND/BROWNFIELD CLEANUP PROGRAM SITE

SITE NO. C905034

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1.0 INTRODUCTION

1.1 PURPOSE AND OBJECTIVE

This Quality Assurance Project Plan (QAPP) has been developed for the Site Management Plan (SMP) associated with the Former Signore State Superfund/Brownfield Cleanup Program Site No. C905034 (Site) located at 55-57 Jefferson Street, Ellicottville, New York. This QAPP presents the project scope, objectives, organization, planned activities, sampling procedures, data quality objectives and quality assurance/quality control (QA/QC) procedures.

Protocols for sample collection, sample handling and storage, equipment decontamination, chain-of-custody procedures, etc. are described in Section 3. This QAPP was developed in general accordance with the requirements of Section 2.4 of the NYSDEC DER-10/Technical Guidance for Site Investigation and Remediation, effective June 18, 2010 (NYSDEC DER-10).

1.2 PROJECT BACKGROUND

The project background is described in Section 2.3 of this SMP.

1.3 PROJECT DESCRIPTION

This QAPP is the quality control basis for the scope of work, which is further described in the Excavation Work Plan of the Site Management Plan.

2.0 SITE INVESTIGATION PROCEDURES AND RATIONALE

The Site has been remediated to Track 2 cleanup standards. Shallow soil/fill containing constituents remain at the BCP Site at concentrations slightly above unrestricted SCOs. Therefore, future excavation activities require certain monitoring and other protocols which could include sampling. Environmental sampling, if warranted, would be performed in conjunction with the removal actions for the following purposes:

- characterization of “clean” backfill materials; and
- characterization of soil and waters (if present) for disposal purposes.
- confirmation sampling of excavation sidewalls and bottom, if additional volume of impacted material is encountered requiring removal;
- Ongoing groundwater monitoring.

Environmental sampling and other field activities will be performed in general accordance with the NYSDEC DER-10 guidance document.

General field activities are described in the following sections and described in further detail in the Remedial Work Plan (RWP).

2.1 AIR SURVEILLANCE AND MONITORING

Air surveillance screening for total volatile organics and particulates for health and safety concerns will be performed with a portable organic vapor meter (OVM) equipped with a photoionization detector (PID) that is using a 10.6 electron volt (eV) bulb and dust monitors placed both upwind and downwind of intrusive work Sites. Monitoring will be performed during invasive activities such as soil/fill excavation. The OVM will also be used to field screen samples. Additional details are presented in the Site-specific Health and Safety Plan and RWP, which includes the NYSDOH generic Community Air Monitoring Plan (CAMP).

2.2 SOIL SAMPLING

Soil/fill sampling will occur during any improvement activities on the Site where evidence of contamination is observed or when soils are planned for off-site disposal. This may include, but is not limited to, activities involving excavation and removal of impacted soil/fill, confirmatory sampling, and waste characterization. Samples will be collected and transferred to sample containers as soon as possible after being retrieved from the subsurface (i.e., excavator bucket).

The excavator will be decontaminated by the subcontractor prior to arrival on-site. During remedial activities, decontamination will be accomplished using steam cleaning or high-pressure hot water to wash equipment prior to moving to the next location. Stainless steel sampling devices will be cleaned manually with non-phosphate detergent (i.e., alconox) wash and potable water followed by a potable water rinse or a second steam cleaning followed by a distilled/deionized water rinse. Equipment will be similarly cleaned prior to leaving the Site.

Soil/fill samples, with the exception of those for VOCs, will be homogenized using a "coning and quartering" procedure. The soil will be removed from the sampling equipment and transferred to a clean surface (metal foil, steel pan, bowl, etc.). Observed debris, such as bricks, large stones, organics, etc. will be removed from the sample. The soil will be mixed to provide a more homogeneous sample for lab analysis. The soil will be scraped from the sides, corners, and bottom of the clean surface, rolled to the middle, and thoroughly mixed until the material appears homogenous. An aliquot of this pile will then be transferred to the required sample containers, slightly tamped-down, filled to near the top of the container, and sealed with the appropriate cap. Soil or sediment on the threads of the container will be removed prior to placing the cap on the sample container. Soil samples for VOC analysis will be collected and directly placed into one unpreserved 2 oz jar per sample location.

Soil screening will be performed in two ways: by holding the probe of the OVM directly over the sample once it is retrieved from the subsurface and again by headspace screening after a representative portion of the soil samples has been placed in plastic bags, allowed to warm to ambient temperature, and placing the tip of the OVM into the plastic bag. The OVM used will be equipped with a PID that is using a 10.6 eV bulb.

The OVM will be calibrated daily, in accordance with manufacturer's requirements, using a standard gas. Prior to screening, the headspace soil samples will be allowed to equilibrate to ambient temperature. For headspace screening, a hole will be made in the sample bag and the tip of the OVM inserted into the bag, and the peak response will be recorded. A response of less than 1 part per million (ppm), using this method, is not considered

significant and will be reported as not detected. A blank will be run between test samples to check that extraneous contamination was not carried over.

2.3 EQUIPMENT DECONTAMINATION

To avoid cross contamination, non-disposable sampling equipment (defined as any piece of re-usable equipment which may contact a sample) will be decontaminated according to the following procedures outlined below.

2.3.1 Non-Dedicated Reusable Equipment

Non-dedicated reusable equipment such as stainless-steel mixing bowls; pumps used for groundwater evacuation (and sampling, if applicable) etc. will require field decontamination. Acids and solvents will not be used in the field decontamination of such equipment. Decontamination typically involves scrubbing/washing with a laboratory grade detergent (*e.g.,* alconox) to remove visible contamination, followed by potable (tap) water and analyte-free water rinses. Tap water may be used from any treated municipal water system; the use of an untreated potable water supply is not an acceptable substitute. Equipment should be allowed to dry prior to use. Steam cleaning or high-pressure hot water cleaning may be used in the initial removal of gross, visible contamination. Tubing will not be re-used (new tubing will be used for each well).

2.3.2 Disposable Sampling Equipment

Disposable sampling equipment will not be field-decontaminated; equipment may be rinsed with laboratory-provided analyte-free water prior to use. Disposable spoons or spatulas purchased from non-environmental equipment vendors (such as restaurant supply houses) will be decontaminated by scrubbing/washing with a laboratory grade detergent followed by potable water and Analyte-free water rinse; or by using steam or high-pressure hot water rinse, followed by analyte free water rinse. The equipment will be allowed to air dry prior to use.

2.3.3 Heavy Equipment

Certain heavy equipment such as, excavator buckets, *etc.* may be used to obtain samples. Such equipment will be subject to high pressure hot water or steam cleaning between uses. A member of the sampling team will visually inspect the equipment to check that visible contamination has been removed by this procedure prior to sampling. Such equipment will be cleaned between excavation locations. Decontamination between excavation samples at a single location will be performed using alconox and water to clean the samplers. Samples submitted for analysis will not include material, which has been in direct contact with the excavator bucket.

2.4 STORAGE AND DISPOSAL OF WASTE GENERATED DURING SITE IMPROVEMENT ACTIVITIES

The sampling methods and equipment have been selected to limit both the need for decontamination and the volume of waste material to be generated. Investigation-derived material (e.g., decon sediments and water) generated during this project shall characterized for off-site disposal at a permitted and NYSDEC-approved waste disposal facility.

Personal protective equipment and disposable sampling equipment will be placed in plastic garbage bags for disposal as a non-hazardous solid waste.

Decontamination Fluids

Wash water and rinse water, including detergent, may be generated during Site work. Non-phosphate detergent and water rinse will be disposed off-site along with water generated from excavations if present.

3.0 SAMPLE HANDLING

3.1 SAMPLE IDENTIFICATION/LABELING

Samples will be assigned a unique identification using the sample location or other sample-specific identifier. Sample identification will be limited to seven alphanumeric characters

to be consistent with the limitations of the laboratory tracking/reporting software. The general sample identification format follows.

SW - XX - Y-Y

Where:

SW = Type of sample (i.e., Side Wall, Excavation Bottom)

XX = Numeric character indicating the number from which the sample was obtained.

Y-Y = Depth of the sample.

Quality control (QC) field duplicate samples will be submitted blind to the laboratory; a fictitious sample identification will be created using the same system as the original. The sample identifications (of the original sample and its field duplicate) will be marked in the project specific field book and on the copy of the chain-of-custody kept by the sampler and copied to the project manager. Sample containers will be labeled in the field prior to the collection of samples. Affixed to each sampling container will be a non-removable label on which the following information will be recorded with permanent water-proof ink:

- Site name and location;
- Sample identification code;
- Date and time;
- Sampler's initials;
- Preservative; and
- Requested analyses.

3.2 SAMPLES, BOTTLES, PRESERVATION, AND HOLDING TIME

Table 1 specifies the analytical method, matrix, holding time, containers, and preservatives for the various analyses to be completed. Sample bottle requirements and holding times are discussed further below.

3.2.1 Sample Bottles

The selection of sample containers used to collect samples is based on the criteria of sample matrix, analytical method, potential contaminants of concern, reactivity of container material with the sample, QA/QC requirements and regulatory protocol

requirements. Sample bottles will be provided by the analytical laboratory and will conform to the requirements of USEPA's Specifications and Guidance for Contaminant-Free sample Containers.

3.2.2 Holding Times

Holding times are judged from the verified time of sample receipt (VTSR) by the laboratory; samples will be shipped from the field to arrive at the lab no later than 48 hours from the time of sample collection. Holding time requirements will be those specified in the NYSDEC ASP; it should be noted that for some analyses, these holding times are more stringent than the holding time for the corresponding USEPA method.

Although trip blanks are prepared in the analytical laboratory and shipped to the Site prior to the collection of environmental samples, for the purposes of determining holding time conformance, trip blanks will be considered to have been generated on the same day as the environmental samples with which they are shipped and delivered. Procurement of bottles and blanks will be scheduled to prevent trip blanks from being stored for excessive periods prior to their return to the laboratory; the goal is that trip blanks should be held for no longer than one week prior to use.

3.3 CHAIN OF CUSTODY AND SHIPPING

A chain-of-custody form will trace the path of sample containers from the Site to the laboratory. Sample/bottle tracking sheets or the chain-of-custody will be used to track the containers from the laboratory to the containers' destination. The project manager will notify the laboratory of upcoming field sampling events and the subsequent transfer of samples. This notification will include information concerning the number and type of samples, and the anticipated date of arrival. Insulated sample shipping containers (typically coolers) will be provided by the laboratory for shipping samples. All sample bottles within each shipping container will be individually labeled with an adhesive identification label provided by the laboratory. Project personnel receiving the sample containers from the laboratory will check each cooler for the condition and integrity of the bottles prior to field work.

Once the sample containers are filled, they will be immediately placed in the cooler with ice (in plastic bags to prevent leaking) or synthetic ice packs to maintain the samples at 4°C. The field sampler will indicate the sample designation/location number in the space provided on the chain-of-custody form for each sample. The chain of custody forms will be signed and placed in a sealed plastic bag in the cooler. The completed shipping container will be closed for transport with nylon strapping, or a similar shipping tape, and two paper seals will be affixed to the lid. The seals must be broken to open the cooler and will indicate tampering if the seals are broken before receipt at the laboratory. The cooler will be shipped either by laboratory-provided courier or by an overnight delivery service to the laboratory. When the laboratory receives the coolers, the custody seals will be checked and lab personnel will sign the chain-of-custody form.

4.0 QUALITY ASSURANCE/QUALITY CONTROL PROTOCOLS

This section describes the analytical methods, principles and procedures that will be used to generate quality data. These protocols include laboratory calibration, field equipment calibration, QC sample collection and analysis, quantitative evaluation of data quality protocols and data qualification, if necessary.

4.1 ANALYTICAL METHODS, PROCEDURES & CALIBRATION

4.1.1 Methods

Analytical methods to be used during this project are presented in the NYSDEC Analytical Services Protocol (ASP), June 2005. Specific methods and references for each parameter are shown in Table 1. The sample preservation and holding time requirements are also identified in Table 1. Quantification and detections limits for all analysis are those specified under the appropriate test methods.

It is the laboratory's responsibility to be familiar with this document, procedures and deliverables pertaining to the Site work. The laboratory selected to perform the

analytical testing will be certified by the NYSDOH Environmental Laboratory Approval Program and Contract Laboratory Protocol certified.

4.1.2 Laboratory Instrumentation & Equipment

Laboratory instruments and equipment will be calibrated following SW-846 analytical methods protocol. Initial calibrations will be performed before samples analysis. Calibration checks will be performed at the frequencies specified in each analytical method.

4.1.3 Field Equipment

Field equipment will be used during various activities of the project and during the collection of environmental samples. The field equipment to be used may include the following.

Field equipment used includes:

- OVM with a photoionization detector.
- Electronic water level indicator.
- Multi-gas meter (CO, LEL, O_2, and H_2S).
- Particulate monitor

Field equipment will be cleaned and calibrated prior to use. The Operating and Maintenance (O&M) manuals for the field equipment will be kept in the field when in use and a copy will be retained in project files.

Calibration and standardization for the field equipment during project use will be in accordance with the manufacturer's recommendations, and will be recorded in the field log book. If instrument performance or data fall outside acceptable limits, then corrective actions will be taken. These actions may include recalibration of instruments, acquiring new standards, replacing equipment or repairing equipment. Subcontractors providing analytical services should perform their own internal laboratory audits and calibration

procedures with data review conducted at a frequency so that errors and problems are detected early, thus avoiding the prospect of redoing large segments of work.

4.2 QUALITY CONTROL SAMPLES

4.2.1 Analytical Equipment

The analytical methods to be utilized (see Table 1 below) for laboratory sample analysis address the quality control to be used and the frequency of replicates, blanks and calibration standards for laboratory analytical equipment.

Table 1
Summary of Sample Methods, Container, Preservation and Holding Time Requirements
Quality Assurance Project Plan
Former Signore Site
Ellicottville, New York
Brownfield Cleanup Program
Site No. C905034

Analysis	Method	Holding Time (days)		Containers		Preservative
		To Extraction	To Analyze	Number	Type	
Soil Samples						
Volatile Organic Compounds	SW-846 8260B		14	2	L	Cool
Semivolatile Organic Compounds	SW-846 8270C	14	40	2 *	J	Cool
PCBs	SW-846 8082	14	365		J	Cool
Metals	SW-846 6010B/7470A		180 (28 for Hg)		J	Cool
Pesticides	SW-846 8082	14	40		J	Cool
Herbicides	SW-846 8151	14	40		J	Cool
Aqueous Samples						
Volatile Organic Compounds	SW-846 8260B		14	3	G	Cool
Semivolatile Organic Compounds	SW-846 8270C	7	40	1	H	Cool
PCBs	SW-846 8080	7	365	1	H	Cool
Metals	SW-846 6010B/7470A	7	180 (28 for Hg)	1	I	HNO3
Pesticides	SW-846 8082	7	40	1	H	Cool
Herbicides	SW-846 8151	7	40	1	H	Cool
Notes:						
Container Types						
G - 40 ml glass, Teflon septum cap liner, HCL						
H - 1L glass, Teflon cap liner						
I - 250 ml, polyethylene, Teflon cap liner						
J - 8 oz. wide mouth glass, Teflon cap liner						
L - 2 oz. glass widemouth with Teflon cap liner						
M - 1 liter vacuum canister						
Preservatives						
Cool - Cool to 4 degrees Celsius						
HNO3 - Nitric Acid to <2 pH						
NaOH - Sodium Hydroxide to >12pH						
HCl - Hydrochloric acid to pH<2						
* - Semi-volatiles, PCBs, metals pesticides, and herbicides analyses can take place from two 8 ounce glass widemouth jar with a teflon lined cap.						

4.2.2 Field Samples

Field quality control samples will consist of trip blanks, sample duplicate, matrix spike and matrix spike duplicate. Trip blanks, for VOCs only, will consist of analyte free reagent grade water in VOC sampling containers to be used for the project. Trip blanks will be prepared at the laboratory, sealed, transported to the Site and returned without being

opened to assess contamination that may have occurred during transport. Trip blanks will be submitted at a rate of one per sampling event when VOCs are shipped to the laboratory.

Field duplicate samples are used to assess the variability of a matrix at a specific sampling point and to assess the reproducibility of the sampling method. For soil samples, these samples are separate aliquots of the same sample; prior to dividing the sample into "sample" and "duplicate" aliquots, the samples are homogenized (except for the VOC aliquots, which are not homogenized). Aqueous field duplicate samples are second samples collected from the same location, at the same time, in the same manner as the first, and placed into a separate container. Each duplicate sample will be analyzed for the same parameters as the original sample collected that day. The blind field duplicate Relative Percent Difference (RPD) objective will be ±50% percent RPD for all matrices. Field duplicates will be collected at a frequency of 1 per 20 environmental samples for both matrices (aqueous and non-aqueous) and test parameters.

Matrix spike/matrix spike duplicate (MS/MSD) samples are used to assess the laboratory method's accuracy and precision. These samples are spiked with known quantities of target analytes at the laboratory. The samples are collected at a frequency of five percent (1 in 20).

5.0 DATA DOCUMENTATION

5.1 FIELD NOTEBOOK

Field notebooks will be initiated at the start of work at the Site, in addition to field forms that will be filled out summarizing field work and become part of the project file. The field notebook will include the following daily information for BCP Site activities:

- Date;
- Meteorological conditions (temperature, wind, precipitation);
- Site conditions (e.g., dry, damp, dusty, etc.);
- Identification of crew members (GZA and subcontractor present) and other

personnel (e.g., agency or Site owner) present;

- Description of field activities;
- Location(s) where work is performed;
- Problems encountered and corrective actions taken;
- Records of field measurements or descriptions recorded; and,
- Notice of modifications to the scope of work.

5.2 FIELD REPORTING FORMS

Field reporting forms (or their equivalent) to be utilized during the remediation may include the following:

- Excavation Log;
- Sample Collection Log;
- Chain of Custody Form; and
- Calibration Log.

These forms, when completed, will become part of the project file.

6.0 CORRECTIVE ACTIONS

If instrument performance or data fall outside acceptable limits, then corrective actions will be taken. These actions may include recalibration or standardization of instruments, acquiring new standards, replacing equipment, repairing equipment, and reanalyzing samples or redoing sections of work. Subcontractors providing analytical services should perform their own internal laboratory audits and calibration procedures with data review conducted at a frequency so that errors and problems are detected early, thus avoiding the prospect of redoing large segments of work.

Situations related to this project requiring corrective action will be documented and made part of the project file. For each measurement system identified requiring corrective action, the responsible individual for initiating the corrective action and also the individual

responsible for approving the corrective action, if necessary, will be identified. As part of its total quality management program, GZA makes the results of laboratory audits and data validation reports available to the analytical laboratories. The laboratories are therefore made aware of non-critical items and areas where improvement may be made in subsequent NYSDEC ASP work.

7.0 DATA REDUCTION, VALIDATION, AND REPORTING

The guidance followed to perform quality data validation, and the methods and procedures outlined herein pertain to initiating and performing data validation, as well as reviewing data validation performed by others (if applicable). An outline of the data validation process is presented here, followed by a description of data validation review summaries.

7.1 LABORATORY DATA REPORTING AND REDUCTION

The laboratory will meet the applicable documentation, data reduction, and reporting protocols as specified in the 2005 revision of the NYSDEC ASP CLP. Laboratory data reports for non-CLP data will conform to NYSDEC Category B deliverable requirements. With full CLP documentation, deliverables will include, but not be limited to:

Organics	**Inorganics**
Chains of Custody	Chains of Custody
Blanks	Blanks
Holding Times	Holding Times
Internal Standards	Furnace AA QC
Laboratory Duplicates	CRDL Standards
Tentatively Identified Compounds	ICP Serial Dilutions
GC/MS Instrument Performance Check	Laboratory Control Samples
System Monitoring Compound Recovery	Laboratory Duplicates
Matrix Spike & Matrix Spike Duplicates	ICP Interference Check
GC/MS Tuning	Spiked Sample Recovery
Surrogate Recoveries	

Copies of the laboratory's generic Quality Assurance Plan (QAP) will be on file at GZA. The laboratory's QAP will indicate the standard methods and practices for obtaining and

assessing data, and how data are reduced from the analytical instruments to a finished report, indicating levels of review along the way.

In addition to the hard copy of the data report, the laboratory will be asked to provide the sample data in spreadsheet form to minimize possible transcription errors resulting from the manual transcription of data.

1.3 FIELD DATA

Field chemistry data collected during air monitoring, and soil screening (*e.g.*, OVM readings), will be presented on field logs and provided in the appendices of the report.

8.0 PERFORMANCE AND SYSTEM AUDITS

An audit of the laboratory(s) during the Site work will not be performed unless warranted by a problem(s) that cannot be resolved by any other means, or at the discretion of GZA or NYSDEC.

9.0 QUALITY ASSURANCE REPORTS TO MANAGEMENT

Monthly project status reporting to the NYSDEC will include aspects of quality control that were pertinent during the month's activities. Problems revealed during review of the month's activities will be documented and addressed. These reports will include a description of completed and on-going activities, and an indication how each task is progressing relative to the project schedule.

The project manager, through task managers, will be responsible for verifying that records and files related to this project are stored appropriately and are retrievable.

The laboratory will submit memoranda or correspondence related to quality control of this project's samples as part of its deliverables package.

APPENDIX G – HEALTH AND SAFETY PLAN

1. CLIENT/SITE/PROJECT INFORMATION		
Client: Iskalo Ellicottville Holding LLC		
Site Address: 55-57 Jefferson Street, Ellicottville, NY		
Site Description, Work Environment: Currently vacant and Inactive former manufacturing facility. Work environment is primarily outdoors in open air.		
Job/Project #:	Estimated Start Date:	Estimated Finish Date:
Site is Covered by the Following Regulations:	OSHA HAZWOPER Standard ☒	Mine Safety and Health Administration ☐
	OSHA Construction Regulations ☒	None of these ☐

2. EMERGENCY INFORMATION		
Hospital Name: Bertrand Chaffee Hospital		Hospital #: (716) 592-2891
Hospital Address: 224 East Main Steet, Springville, NY		Directions and Street Map Attached: ☒ Yes
Local Fire #: 911 or	Local Ambulance #: 911 or	Local Police #: 911 or
WorkCare Incident Intervention Services:	**For non-emergencies, if an employee becomes hurt or sick call 888-449-7787**	
Other Emergency Contact(s):	Phone #'s:	
Site-Specific Emergency Preparedness/Response Procedures/Concerns:		

- All EHS Events (incidents, first aid, near misses, unsafe acts/conditions, fires, chemical spills, property damage, extraordinary safe behaviors) must be reported immediately to the Project Manager, and within 24hours to the EHS Event Reporting Portal at www.kelleronline.com/portal. Username gempl1; Password 4Incidents!.
- In the event of a chemical release greater than 5 gallons, site personnel will evacuate the affected area and relocate to an upwind location. The GZA Field Safety Officer and client site representative shall be contacted immediately.
- Site work shall not be conducted during severe weather, including high winds and lightning. In the event of severe weather, stop work, lower any equipment (drill rigs), and evacuate the affected area.

3. SUB-SURFACE WORK, UNDERGROUND UTILITY LOCATION	
Will subsurface explorations be conducted as part of this work? ☒ Yes ☐ No	
Site property ownership where underground explorations will be conducted on:	Public Access Property ☐ Yes ☒ No Private Property ☒ Yes ☐ No
Have Necessary Underground Utility Notifications for Subsurface Work Been Made?	☐ Yes ☒ Yet to be conducted
Specify Clearance Date & Time, Dig Safe Clearance I.D. #, And Other Relevant Information: Drilling sub-contractors will be calling in the UFPO	
IMPORTANT! For subsurface work, prior to the initiation of ground penetrating activities, personnel to assess whether the underground utility clearance (UUC) process has been completed in an manner that appears acceptable, based on participation/ confirmation by other responsible parties (utility companies, subcontractor, client, owner, etc.), for the following:	

Electric:	☐ Yes	☐ No	☐ NA	☐ Other_____
Fuel (gas, petroleum, steam):	☐ Yes	☐ No	☐ NA	☐ Other_____
Communication:	☐ Yes	☐ No	☐ NA	☐ Other_____
Water:	☐ Yes	☐ No	☐ NA	☐ Other_____
Sewer:	☐ Yes	☐ No	☐ NA	☐ Other_____
Other:_____	☐ Yes	☐ No	☐ NA	☐ Other_____
Comments:				

4. SCOPE OF WORK	
Any OSHA PERMIT-REQUIRED CONFINED SPACE entry? ☐ **YES** ☒ **NO** If yes, use Site Specific H&S Plan/Confined Space Entry Permit for that portion of the work	**Any INDOOR fieldwork?** ☐ **YES** ☐ **NO** If yes, explain:
General project description, and phase(s) or work to which this H&S Plan applies.	Any ground-disturbing work that is completed on-site.
Specific Tasks Performed by:	
Concurrent Tasks to be Performed by Subcontractors (List Subcontractors by Name):	
Concurrent Tasks to be Performed by Others:	

5. SITE-SPECIFIC OVERVIEW OF H&S HAZARDS/MITIGATIONS (NOTE: Based on Hazard Assessment, Section 10)	
Describe the major hazards expected to be present at the jobsite, and describe the safety measures to be implemented for worker protection. Use brief abstract statements or more detailed narrative as may be appropriate.	
ON-SITE HAZARDS:	**HAZARD MITIGATIONS:**
Site Traffic	Use of Hi-Vis Safety vests and traffic cones.
Underground Utilities	Review of site drawings, ground disturbance approval from facility management, UFPO clearance.
Heavy equipment operations by subcontractor	Communication, safe working distances, high visibility vests.
Slips, trips, and fall hazards	Pay special attention while walking on uneven surfaces; do not walk with hands in pockets, general overall awareness and housekeeping. Identify hazards within work area prior to commencement of work activities. Maintain a safe distance from excavations and monitor for conditions of instability/cave-in.
Soil vapor	Screen the breathing zone for the presence of organic vapors.
Groundwater / Porewater	Wear appropriate PPE when site groundwater or porewater is encountered in any excavation work.
Soil	Wear appropriate PPE when site soils are encountered during excavation work.

6. HEALTH AND SAFETY EQUIPMENT AND CONTROLS

AIR MONITORING INSTRUMENTS

- ☒ PID Type: Lamp Energy: eV
- ☐ FID Type:
- ☐ Carbon Monoxide Meter
- ☐ Hydrogen Sulfide Meter
- ☐ O_2/LEL Meter
- ☒ Particulate (Dust) Meter
- ☒ Calibration Gas Type Isobutylene
- ☐ Others:

Note: Ensure instruments have been properly calibrated

OTHER H&S EQUIPMENT & GEAR

- ☒ Fire Extinguisher
- ☒ Caution Tape
- ☒ Traffic Cones or Stanchions
- ☒ Warning Signs or Placards
- ☒ Decon Buckets, Brushes, etc.
- ☐ Portable Ground Fault Interrupter (GFI)
- ☐ Lockout/Tagout Equipment
- ☐ Ventilation Equipment
- ☐ Others:

PERSONAL PROTECTIVE EQUIPMENT

- ☐ Respirator Type:
- ☐ Resp-Cartridge Type:
- ☒ Hardhat
- ☒ Outer Gloves Type: Nitrile (Disposable)
- ☐ Inner Gloves Type:
- ☒ Steel-toed boots/shoes
- ☐ Coveralls Type:
- ☐ Outer Boots Type:
- ☒ Eye Protection with side shields
- ☐ Face Shield
- ☒ Traffic Vest
- ☐ Personal Flotation Device (PFD)
- ☐ Fire Retardant Clothing
- ☐ EH (Electrical Hazard) Rated Boots, Gloves, etc.
- ☒ Noise/Hearing Protection
- ☐ Others:

Discuss/Clarify, as Appropriate:

7. AIR MONITORING ACTION LEVELS

Is air monitoring to be performed for this project? Yes ☒ **No** ☐

Make sure air monitoring instruments are in working order and have been calibrated prior to use. Depending on project-specific requirements, periodic field calibration checks may be necessary during the day of instrument use.

ACTION LEVELS FOR OXYGEN DEFICIENCY AND EXPLOSIVE ATMOSPHERIC HAZARDS (Action levels apply to occupied work space in general work area)

☐ **Applicable, See Below.** ☒ **Not Applicable**

Parameter	Response Actions for Elevated Airborne Hazards
Oxygen	**At 19.5% or below** – Exit area, provide adequate ventilation, or proceed to Level B, or discontinue activities Verify presence of adequate oxygen (approx. 12% or more) before taking readings with LEL meter. Note: If oxygen levels are below 12%, LEL meter readings are not valid.
LEL	**Less than 10% LEL** – Continue working, continue to monitor LEL levels **Greater than or Equal to 10% LEL** – Discontinue work operations and immediately withdraw from area. Resume work activities ONLY after LEL readings have been reduced to less than 10% through passive dissipation, or through active vapor control measures.

ACTION LEVELS FOR INHALATION OF TOXIC/HAZARDOUS SUBSTANCES (Action levels are for sustained breathing zone concentrations)

☒ **Applicable, See Below.** ☐ **Not Applicable**

Air Quality Parameters (Check all that apply)	Remain in Level D or Modified D	Response Actions for Elevated Airborne Hazards
☒ VOCs	0 to 5 ppm	From 5 ppm to 10 ppm: Proceed to Level C, or Ventilate, or Discontinue Activities

		If greater than 10 ppm: Proceed to Level B, or, Ventilate, or Discontinue Activities
☐ Carbon Monoxide	0 to 35 ppm	At greater than 35 ppm, exit area, provide adequate ventilation, proceed to Level B, or discontinue activities.
☐ Hydrogen Sulfide	0 to 10 ppm	At greater than 10 ppm, exit area, provide adequate ventilation, proceed to Level B, or discontinue activities
☒ Dust	0 to mg/m^3	
☐		

SPECIAL INSTRUCTIONS/COMMENTS REGARDING AIR MONITORING (IF APPLICABLE)

8. H&S TRAINING/QUALIFICATIONS FOR FIELD PERSONNEL

☒ Project-Specific H&S Orientation (Required for All Projects/Staff)	☐ Bloodborne Pathogen Training
☒ OSHA 40-Hour HAZWOPER/8 Hour Refreshers	☐ Fall Protection Training
☒ Hazard Communication (for project-specific chemical products)	☒ Trenching & Excavation
☒ First Aid/CPR (at least one individual on site)	☐ Current Medical Clearance Letter
☒ General Construction Safety Training	☐
☐ Lockout/Tagout Training	☐
☐ Electrical Safety Training	☐

Discuss/Clarify, as needed:

9. PROJECT PERSONNEL - ROLES AND RESPONSIBILITIES

ON-SITE PERSONNEL:

Name(s)	Project Title/Assigned Role	Telephone Numbers
	Site Supervisor	Work: Cell:
	Field Safety Officer	Work: Cell:
	First Aid Personnel	Work: Cell:
	Project Team Members	Cell:

Site Supervisors and Project Managers (SS/PM): Responsibility for compliance with Health and Safety programs, policies, procedures and applicable laws and regulations is shared by all management and supervisory personnel. This includes the need for effective oversight and supervision of project staff necessary to control the Health and Safety aspects of on-site activities.

Site Safety Officer (SSO): The SSO is responsible for implementation of the Site Specific Health and Safety Plan.

First Aid Personnel: At least one individual who has current training and certification in basic first aid and cardiopulmonary resuscitation (CPR) must be present during on-site activities involving multiple personnel.

Project Team: Follow instructions relayed by the HASP and manager on-site.

OTHER PROJECT PERSONNEL:

Name	Project Title/Assigned Role	Telephone Numbers

	Associate/Principal-in-Charge	Work: Cell:
	Project Manager	Work: Cell:
	Health and Safety Coordinator (HSC)	Work: Cell:
	EHS Director	Work: Cell:

Principal-in-Charge: Responsible of overall project oversight, including responsibility for Health and Safety.

Project Manager: Responsible for day-to-day project management, including Health and Safety.

Health and Safety Coordinator: General Health and Safety guidance and assistance.

EHS Director: H &S technical and regulatory guidance, assistance regarding H&S policies and procedures.

10. HAZARD ASSESSMENT (CHECK ALL THAT APPLY)

A. GENERAL FIELDWORK HAZARDS

☐ Confined Space Entry (STOP – Use Confined Space Entry HASP)	☐ Overhead Hazards (i.e. falling objects, overhead power lines)
☒ Abandoned or vacant building/Enclosed Spaces	☒ Portable Hand Tools or Power Tools
☒ Significant Slip/Trip/Fall Hazards	☒ Significant Lifting or Ergonomic Hazards
☐ Unsanitary/Infectious Hazards	☐ Electrical Hazards (i.e. Equipment 120 Volts or Greater, Work Inside Electrical Panels, or Maintenance of Electrical Equipment)
☐ Poisonous Plants	☐ Other Stored energy Hazards (i.e. Equipment with High Pressure or Stored Chemicals)
☐ Biting/Stinging Insects	☐ Fire and/or Explosion Hazard
☐ Feral Animal Hazards	☒ Elevated Noise Levels
☐ Water/Wetlands Hazards	☐ Excavations/Test Pits
☐ Remote Locations/Navigation/Orientation hazards	☐ Explosives or Unexploded Ordinance/MEC
☒ Heavy Traffic or Work Alongside a Roadway	☐ Long Distance or Overnight Travel
☒ Weather-Related Hazards	☐ Personal Security or High Crime Area Hazards
☒ Motor vehicle operation Hazards	☐ Working Alone
☒ Heavy Equipment Hazards	☐ Ionizing Radiation or Non-Ionizing Radiation
☐ Structural Hazards (i.e. unsafe floors/stairways/roof)	☒ Chemical/Exposure Hazards (See Part B for Details)
☐ Demolition/Renovation	☐ Other:
☒ Presence of Pedestrians or the General Public	

B. CHEMICAL/EXPOSURE HAZARDS

☐ No chemical hazards anticipated	☐ Methane
☐ Hydrogen Sulfide (H2S)	☐ Chemicals Subject to OSHA Hazard Communication (Note: For commercial chemical products, attach MSDSs if applicable)
☐ Cyanides, Hydrogen Cyanide (HCN)	☐ Containerized Waste, Chemicals in Piping & Process Equipment
☐ Carbon Monoxide	☒ Emissions from Gasoline-, Diesel-, Propane-fired Engine, Heater, Similar Equipment
☐ Herbicides, Pesticide, Fungicide, Animal Poisons	☒ General Work Site Airborne Dust Hazards
☐ Metals, Metal Compounds	☒ Volatile Organic Compounds (VOCs), BTEX
☐ Corrosives, Acids, Caustics, Strong Irritants	☒ Chlorinated Organic Compounds
☐ Polychlorinated Biphenyls (PCBs)	☒ Fuel Oil, Gasoline, Petroleum Products, Waste Oil
☐ Polycyclic Aromatic Hydrocarbons (PAHs)	☐ Asbestos
☐ Compressed Gases	☐ Oxygen Deficiency, Asphyxiation Hazards
☐ Flammable/Combustible Liquids	☐ Other:
☐ Radiation Hazards (i.e. radioactive sealed/open source, x-rays, ultra violet, infrared, radio-frequency, etc.)	

11. PLAN ACKNOWLEDGEMENT AND APPROVALS

Employee Plan Acknowledgement

I have read, understood, and agree to abide by the information set forth in this Safety and Accident Prevention Plan. I will follow guidance in this plan and in the Health and Safety Program Manual. I understand the training and medical monitoring requirements covered by the work outlined in this plan and have met those requirements.

Employee Name	Employee Signature	Date

Subcontractor Employee Plan Acknowledgement

This plan has been prepared solely for the purpose of protecting the health and safety of future workerss. Subcontractors, visitors, and others at the site must refer to their organization's health and safety program or site-specific HASP for their protection. Subcontractor employees may use this plan for general informational purposes only. Subcontractor firms are obligated to comply with safety regulations applicable to their work, and understand this plan covers GZA activities only.

Subcontractor Employee Name	Subcontractor Employee Signatures	Date

Site-Specific Health and Safety Plan Approval Signatures

The following individuals indicate their acknowledgement and/or approval of the contents of this Site Specific H&S Plan based on their understanding of project work activities, associated hazards and the appropriateness of health and safety measures to be implemented.

Signatory	Employee Name	Employee Signature	Date
Preparer:			
EHS Reviewer:			
PIC Approval:			

Directions to 224 E Main St, Springville, NY 14141-1443

YAHOO!

Total Time: 29 mins, Total Distance: 19.66 mi

		Distance
A	1. **Start at 55 JEFFERSON ST, ELLICOTTVILLE going toward MARTHA ST**	go **0.24** mi
	2. Turn R on **E WASHINGTON ST(US-219)**	go **0.46** mi
	3. Continue to follow **US-219**	go **0.53** mi
	4. Turn L on **ROUTE 219 N(US-219)**	go **14.44** mi
	5. Continue to follow **US-219**	go **2.22** mi
	6. Bear R on **WAVERLY ST(CR-121)**	go **1.01** mi
	7. Bear R on **W MAIN ST(RT-39)**	go **0.75** mi
B	8. **Arrive at 224 E MAIN ST, SPRINGVILLE, on the L**	

Time: 29 mins, Distance: 19.66 mi

When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

APPENDIX H

SITE MANAGEMENT FORMS

Summary of Green Remediation Metrics for Site Management

Site Name: _____ Site Code: _____
Address: _____ City: _____
State: _____ Zip Code: _____ County: _____

Initial Report Period (Start Date of period covered by the Initial Report submittal)
Start Date: _____

Current Reporting Period
Reporting Period From: _____ To: _____

Contact Information
Preparer's Name: _____ Phone No.: _____
Preparer's Affiliation: _____

I. Solid Waste Generation: Quantify the management of solid waste generated on-site.

	Current Reporting Period (tons)	**Total to Date (tons)**
Total waste generated on-site		
OM&M generated waste		
Of that total amount, provide quantity:		
Transported off-site to landfills		
Transported off-site to other disposal facilities		
Transported off-site for recycling/reuse		
Reused on-site		

Provide a description of any implemented waste reduction programs for the site in the space provided on Page 3.

II. Transportation/Shipping: Quantify the distances travelled for delivery of supplies, shipping of laboratory samples, and the removal of waste.

	Current Reporting Period (miles)	**Total to Date (miles)**
Standby Engineer/Contractor		
Laboratory Courier/Delivery Service		
Waste Removal/Hauling		

Provide a description of all mileage reduction programs for the site in the space provided on Page 3. Include specifically any local vendor/services utilized that are within 50 miles of the site.

Description of green remediation programs reported above (Attach additional sheets if needed)
Waste Generation:
Transportation/Shipping:
Other:

CERTIFICATION BY CONTRACTOR
I, _____ (**Name**) do hereby certify that I am _____ (**Title**) of the Company/Corporation herein referenced and contractor for the work described in the foregoing application for payment. According to my knowledge and belief, all items and amounts shown on the face of this application for payment are correct, all work has been performed and/or materials supplied, the foregoing is a true and correct statement of the contract account up to and including that last day of the period covered by this application. _____ **Date** **Contractor**

APPENDIX I

COMMUNITY AIR MONITORING PLAN

Appendix 1A
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

Appendix 1B
Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

(a) Objects to be measured: Dust, mists or aerosols;
(b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);
(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;
(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
(e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
(f) Particle Size Range of Maximum Response: 0.1-10;
(g) Total Number of Data Points in Memory: 10,000;
(h) Logged Data: Each data point with average concentration, time/date and data point number
(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
(l) Operating Temperature: -10 to 50^{o} C (14 to 122^{o} F);
(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

(a) Applying water on haul roads;
(b) Wetting equipment and excavation faces;
(c) Spraying water on buckets during excavation and dumping;
(d) Hauling materials in properly tarped or watertight containers;
(e) Restricting vehicle speeds to 10 mph;
(f) Covering excavated areas and material after excavation activity ceases; and
(g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

APPENDIX J

RESPONSIBILITIES OF OWNER AND REMEDIAL PARTY

As both the Site owner and the remedial party, Iskalo Ellicottville Holdings LLC is responsible for implementing the Site Management Plan for Former Signore, Inc. BCP Site (C905034) and the SSF Site (905023).