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# INTERIM REMEDIAL MEASURES WORK PLAN

## **Corning City Fire Department - Site #851050**

2 Corning Boulevard  
Corning, New York

### Prepared For:

Contract# D009808, Work Assignment No. 56  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
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Issued On: April 16, 2026

Revised On: May 19, 2026



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I, Joseph Richard Taormina, Jr., certify that I am currently a NYS registered professional engineer and that this IRM Scope of Work 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) and DER Green Remediation (DER-31) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.



Joseph Richard Taormina, Jr., P.E. - NYS Professional Engineer #103671



## 1.0 INTRODUCTION

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This Interim Remedial Measures (IRM) Work Plan (WP) has been prepared to address the presence of ash, brick, and/or glass (ABG) observed in surficial soils that pose a potential exposure risk to receptors at the City of Corning Fire Department (the Site). HRP Associates, Inc. (HRP) has prepared this WP on behalf of the New York Department of Environmental Conservation (NYSDEC). The Site location and site boundaries are depicted on **Figure 1** and **Figure 2**, respectively.

### 1.1 Site Characterization Summary

According to the Site Characterization Report for the City of Corning Fire Department prepared by Parsons dated August 2024, a site characterization (SC) was completed to investigate potential impacts to the site resulting from the presence of historically imported material consisting of ABG waste at the City Fire Department in soil, sediment, groundwater, and surface water. The SC investigation included the collection of samples and analysis of soil, sediment, groundwater, and surface water for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), per- and polyfluoroalkyl substances (PFAS), total petroleum hydrocarbons (TPH), and pesticides/herbicides and the observation of ABG. Based on analytical results, the primary contaminants of concern at the Site are metals and SVOCs.

The results from the SC indicated several heavy metals (including arsenic, barium, cadmium, and lead) and several SVOCs (including benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene) were detected at concentrations exceeding 6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives (SCOs). These SC results are summarized in **Table 1** and shown on **Figure 3**.

### 1.2 Pre-Design Investigation Summary

In November 2025, HRP Associates performed a pre-design investigation (PDI) in accordance with the PDI Work Plan prepared by HRP dated November 4, 2025 and approved by the NYSDEC to further investigate the observation of ABG identified during the SC at the Fire Department. Results of the PDI are discussed in the PDI report prepared by HRP Associates dated January 30, 2026.

ABG and nearby soil contain contaminants (such as arsenic, boron, cadmium, lead, and semi-volatile organic compounds (SVOCs) at levels above New York State guidelines. Contaminants of concern related to ABG include arsenic, barium, boron, cadmium, chromium, lead, mercury, and SVOCs. A sampling grid of 100 x 100-foot grid cells with one soil boring per grid cell was designed for comprehensive distribution across the Site. Samples were collected from 0-2 inches and 2-12 inches below ground surface (bgs) to inform a 1-foot soil cover system which meets the existing and future site use by removing soils with SVOCs and metals exceeding commercial SCOs and ABG. Additionally, surface soil samples were collected and analyzed during the PDI for waste profiling to inform proper handling, storage, and disposal in compliance with state and federal standards during the IRM phase.

ABG was identified during the PDI in 14 out of 22 soil borings in both sampling depth intervals. All soil samples were analyzed for SVOCs and metals. No SVOCs or metals were detected at

concentrations exceeding Commercial Use SCOs. A full list of detections from the PDI is included in **Table 2** and shown on **Figure 3**.

### **1.3 Purpose**

This IRM WP has been prepared to address the presence of observed ABG and exceedances of NYCRR Part 375 Commercial Use SCOs in surface soils, soil borings, and test pits that pose a potential human health exposure risk to receptors using the City Fire Department. This IRM WP provides an overview of how the remediation will be conducted and a set of IRM Design drawings are being developed with specifications and notes that will guide the remedy construction.

### **1.4 Remedial Action Objectives**

The Remedial Action Objectives (RAOs) for the Site are as follows:

- RAOs for Public Health Protection
  - Prevent ingestion/direct contact with contaminated soil
  - Prevent inhalation of or exposure to contaminants in soil
- RAOs for Environmental Protection
  - Prevent migration of contaminants that would result in groundwater or surface water contamination

#### **1.4.1 Presumptive Remedy**

Based on the presumptive approach, contamination is presumed to exist deeper than one foot across the site (or property) and a cover system will be required across the entire site/property (even when there is no excavation or a cover is installed only on a portion or based on limited investigation) to allow for commercial use. Any site/property redevelopment will maintain the existing cover system. The cover system may include paved surface parking areas, sidewalks or soil where the upper foot of exposed surface soil meets the applicable SCOs for commercial use.

This IRM WP has been prepared to address the presence of ABG and exceedances of Commercial Use SCOs that pose a potential human health risk to receptors at the Site. Components of the presumptive remedy described in this IRM WP include:

- Excavation of up to 1 foot of ABG-impacted soils at the Site;
- Off-site disposal of ABG-impacted soils;
- Placement of a geotextile demarcation layer and backfill materials in excavation areas
- Restoration of vegetation and other disturbed areas; and
- Implementation of engineering controls (ECs) and institutional controls (ICs) via a site management plan (SMP)

Following the removal of impacted material in conjunction with sampling that shows no impacts in portions of the Site, a 1-foot soil cover will be placed over the Site to limit exposure to any deeper ABG impacts that will remain on-site.

## **2.0 INTERIM REMEDIAL MEASURE CONSTRUCTION ACTIVITIES**

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### **2.1 Pre-Mobilization Activities**

#### **2.1.1 Soil Erosion and Sediment Control**

Prior to construction, erosion and sediment control measures will be installed in accordance with the New York State Standards and Specifications for Erosion (NYSDEC 2016). Control measures shall be provided to:

- Minimize potential erosion of existing soil within and adjacent to active work areas.
- Minimize the potential for conveyance of sediment-laden stormwater or surface water beyond active work areas.
- Minimize accumulation of water within active work areas; and minimize off-site tracking of materials.

Erosion and sedimentation control devices will be subject to a minimum of weekly inspection and maintenance. Results of the weekly inspections and maintenance will be provided to NYSDEC.

The remedial work will not require a New York State Pollutant Discharge Elimination System (NYSPDES) General Permit for Storm Water Discharges, however for excavations greater than 1 acre, the substantive requirements of the NYSDEC Division of Water guidelines and NYS regulations for storm water pollution prevention will be followed.

#### **2.1.2 Tree Preservation and Protection**

Whenever possible, remedial activities are planned and staged to avoid disturbing healthy trees. If cleanup activities are scheduled near a tree, the NYSDEC will work with arborists and field specialists to assess its condition, develop protective measures, and minimize root disturbance. In cases where excavation is required in close proximity, protective fencing may be used to establish “tree protection zones”, and hand tools may be needed in place of heavy machinery.

In rare cases where trees must be removed to ensure public health and safety, NYSDEC will work with the Site owner and local officials to replace trees with appropriate native species, supporting long-term health of the urban canopy.

#### **2.1.3 Utility Markout**

The Contractor will be required to perform a utility clearance prior to beginning ground-intrusive activities. The utility clearance will include the filing of a New York U-dig location request ticket and performing a ground penetrating radar (GPR) survey.

#### **2.1.4 Survey Control**

A grid-based survey program will be utilized to confirm and document pre- and post-cover system

elevations, as well as the horizontal limits of the cover system. Removal activities will be documented through daily field summaries and photographs taken prior to, during, and after excavation activities. A 1-foot topographic survey was completed at the Site as a part of the PDI in December 2025 by a licensed surveyor and will act as the pre-construction survey.

Visual inspections, including photographs, of interior and exterior conditions of property structures (such as buildings, foundations, etc.) will be conducted by a qualified engineer to observe and document current conditions.

## 2.2 Excavation

Proposed removal areas will be isolated and secured using temporary safety fencing, if needed. Erosion control features such as hay bales, silt socks, and drain covers may be employed in active work zones on an as-needed basis.

Removal will require excavating to a depth of 1 foot in each of the proposed removal areas (**Figure 3**) where ABG was identified, or where soil cleanup objectives were exceeded as part of the PDI. Additional removal areas may be included during the IRM Design period based on supplemental PDI work or based on ABG observations in the sidewalls of the excavations during IRM removal activities.

The staging of excavated soils will be conducted in a controlled manner, such as through the use of a prepared pad lined with polyethylene sheeting that is bermed and/or tarped to provide containment and protection from precipitation, or in roll-off containers. If excavated soils are staged at the Site and left unattended, stockpiles are to be covered with polyethylene sheeting to reduce exposure.

All equipment used to excavate or transport excavated material will be decontaminated in the decontamination pad prior to leaving the Site using a steam pressure washer. Solids and grossly contaminated rinsate removed during decontamination will be included with excavated materials in waste containers to the extent practicable. If necessary, these decontamination fluids will be placed in separate containers for characterization, transportation, and off-site disposal.

## 2.3 Site Cover System Installation

Based on the SC by Parsons and the PDI by HRP, soil throughout the Site had observations of ABG and some soil had exceedances of Commercial Use SCOs (see **Figure 3**). In areas where ABG was observed or soils were identified in exceedance of Commercial Use SCOs, one foot of existing surficial materials will be excavated and removed from the Site for off-site disposal to allow for installation of the Site cover system. The Site cover system shall consist of the following components:

- Existing subgrade, compacted and proof rolled
- Geotextile fabric demarcation layer
- A 1-foot layer of compacted, clean fill and vegetative cover

The Site cover will generally be gently graded to maintain existing drainage patterns and convey stormwater from the cover system. **Figure 4** shows the cells selected for excavation and soil

cover. These cells were determined by the observation of ABG in the top foot of soil and any analytical exceedances of the Commercial Use SCO. Operations, monitoring and maintenance (OM&M) of the Site cover system will consist of periodic inspections to ensure the Site cover remains intact and completion of any necessary repairs.

A cover will be constructed in areas where the upper foot of exposed surface soil exceeds the applicable SCOs and/or ABG is present in the sample location to allow for future commercial use. Where a soil cover is to be constructed it will be a minimum of one foot of soil placed over a demarcation layer, with the upper six inches of soil of sufficient quality to maintain a vegetative layer.

Soil cover material, including any fill material brought to the site (or property), must meet the SCOs for cover material for the use of the property as set forth in 6 NYCRR Part 375-6.7(d). Substitution of other materials and components may be allowed where such components already exist or are a component of the tangible property to be placed as part of the property redevelopment. Such components may include but are not necessarily limited to pavement, concrete, paved surface parking areas, sidewalks, mature trees necessary to maintain the character of the property, building foundations, and building slabs.

### **2.3.1 Excavation Contingency**

While the design and implementation of remediation on-site will not occur until characterization and remedial design activities are complete, the potential for encountering a layer of fill material containing ABG beyond the remediation areas is possible. In these instances, if a visual indication of a layer of fill material containing ABG is encountered in the side wall of a delineated excavation area within the respective cover system (i.e., the 0 to 1 foot) the footprint of the excavation will be expanded to excavate the material.

Where the final limits of excavation are extended, the need for collecting an additional endpoint sample, as required to have a minimum of one sample per 30 linear feet of excavation, will be reevaluated. If needed, an additional endpoint sample may be collected in the field. However, where possible, NYSDEC may elect to extend the limits of the excavation to an existing endpoint, property boundary, and/or property structure to eliminate the need for an additional endpoint sample. Any additional endpoint samples or extended excavation limits will be included in the final survey.

Considering that unlike conventional transport mechanisms, off-site material may have originated from glass manufacturing plants and been placed in off-site locations, further investigation of an adjoining property may be warranted and appropriate to fully investigate and characterize the nature and extent of contamination.

### **2.3.2 Air Monitoring and Dust Control**

During the implementation of the remedial activities, HRP will perform continuous air monitoring of VOCs and particulates (less than 10 micrometers in size, PM-10) at the Site's perimeter in accordance with the NYSDOH Generic Community Air Monitoring Plan (NYSDEC, 2010b). Air monitoring will be conducted using a PID and an air particulate meter. The wind direction and temperature will be recorded as part of the monitoring activities. All monitoring equipment will

be calibrated per the manufacturer's manual and will be kept on-site. During the remedial activities, procedures will be followed in accordance with Appendix B of Technical Guidance for Site Investigation and Remediation (NYSDEC 2010a), NYSDOH Generic CAMP.

Daily monitoring station location maps, and copies of the action limit reports (if any) will be submitted to the NYSDEC and NYSDOH. If an action limit report is generated due to VOC exceedances, the NYSDEC and NYSDOH will be notified within 24 hours of the exceedance. Action limit exceedances for dust, if any, will be discussed in the daily report. A summary of Community Air Monitoring Plan (CAMP) activities, including any action limit reports generated, will be provided in the daily report. The daily reports will be summarized and submitted to the NYSDOH on a weekly basis. A CAMP is provided in **Appendix B**.

The Contractor shall execute work by methods to minimize the generation of dust from all construction activities. Fugitive dust control strategies shall prevent dust from exiting the work zone, prevent visible emissions from exceeding air quality regulations, and prevent public nuisance and exposure to Site contaminants.

The Contractor will be issued a temporary Stop Work Order, with no cause for delay or damages, and will reassess Site activities and dust control measures, if:

1. Visible dust is observed beyond the limits of the Site.
2. If airborne action levels are exceeded at any time during soil remedial activities until it is demonstrated that airborne action levels are achieved by the Contractor's upgraded control measures.
3. At the discretion of the NYSDEC.

### **2.3.3 Construction Oversight and Reporting**

HRP will coordinate all Site activities to achieve the remedial objectives defined in this IRM WP. HRP will provide continual review of all quality control measures to ensure compliance with the Site's remedial objectives and the Site-specific HASP. HRP will provide oversight services for the duration of the remedial activities and will serve as the liaison between the City of Corning and the NYSDEC. The construction oversight activities are anticipated to include, but not limited to, the following:

- Photo documentation of pre- and post-construction Site conditions.
- Manage and oversee the IRM construction activities and remedial activities.
- Perform CAMP activities during ground intrusive activities.
- Prepare daily reports summarizing progress added during the reporting day, locations of work and any quantities of material moved on-site, and imported to the Site, disposed of off-site and an explanation of any notable Site conditions. Photos will also be included in the daily reports as needed, and a comprehensive collection of photos will be included in the construction completion report. The daily reports will be submitted to the NYSDEC by the end of each day.
- Participate in and conduct weekly construction status conference calls.
- A weekly update of the remedial schedule including the percentage of project completion, unresolved delays encountered or anticipated that may affect the future schedule, and efforts made to mitigate such delays.

Job-site record-keeping for all remedial work will be appropriately documented. These records will always be maintained on-site during the project.

### **2.3.4 Final Survey**

A final post-construction survey will be conducted following Site cover installation. The survey will describe the horizontal Site cover limits and elevations as well as horizontal coordinates and elevations of monitoring wells which remain or were replaced following Site cover installation. Survey coordinates will be obtained to the nearest 0.1 foot for vertical elevations per North American Vertical Datum of 1988, and 0.1 foot for horizontal coordinates per North American Datum of 1983 and projected on the New York State Plane Coordinate System (Central Zone).

### **2.4 Waste Transportation and Disposal**

Based on the results of waste characterization sampling, excavated soils will be disposed of off-site at approved landfills. Soils deemed hazardous, if any, may require onsite treatment prior to off-site disposal as non-hazardous soils. Other ABG-impacted sites in the Greater Corning Area require soils to be treated in on-site stockpiles to stabilize heavy metal impacted soils prior to disposal.

Waste including construction and demolition debris, and universal waste will be disposed of accordingly. Recycling of concrete and asphalt will be encouraged if it meets the requirements of the recycling facility.

### **2.5 Site Restoration**

Excavated areas will be restored immediately following Site cover installation including establishment of a vegetative cover using NYSDEC-approved topsoil and seed, and replacement of any concrete curbs, pavement, and/or gravel to match the pre-existing conditions at the Fire Department.

NYSDEC will submit a written notification to the property owner when vegetation is established, as determined by a qualified landscape architect licensed in New York State. This letter will document the transfer of any cover system maintenance activities from NYSDEC to the property owner; specify and require topsoil of a sufficient quality to maintain a vegetative cover of grass. The following list will be implemented to ensure the restoration of the vegetative layer is established and/or corrected if initial restoration is not successful:

- Use improved topsoil;
- Improve transition from installed sod to existing lawn;
- Aerate, overseed, and top-dress any remediated areas on these properties, as needed;
- Apply four fertilizer treatments during the growing season;
- Apply post emergent weed control in June and October;
- Maintain the properties (mowing and watering) following germination;
- Educate property owners on how to water the sod during challenging weather periods;
- Participate in a monthly walk through with NYSDEC representatives with corrective measures implemented, as needed;

- Address property owner complaints at the time they are received;
- Meet with the property owner to discuss turnover and ongoing maintenance requirements after the vegetation is established (expected to take up to one year); and
- Provide written notifications to the property owner when vegetation is established.

### **3.0 GREEN REMEDIATION**

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

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals;
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development;
- Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this property, any future buildings shall be constructed, at a minimum, to meet the 2020 Energy Conservation Construction Code of New York (or most recent edition) to improve energy efficiency as an element of construction.

#### **3.1 Environmental Footprint Analysis**

As part of the remedial design program, to evaluate this presumptive approach with respect to green and sustainable remediation principles, an environmental footprint analysis will be completed. The environmental footprint analysis will be completed using an accepted environmental footprint analysis calculator such as SEFA (Spreadsheets for Environmental Footprint Analysis, USEPA), SiteWise (TM) (available in the Sustainable Remediation Forum [SURF] library) or similar NYSDEC accepted tool.

Water consumption, greenhouse gas emissions, renewable and non-renewable energy use, waste reduction and material use will be estimated, and goals for the project related to these green and sustainable remediation metrics, as well as for minimizing community impacts, protecting habitats and natural and cultural resources, and promoting environmental justice, will be incorporated into the remedial design program, as appropriate. The project design specifications will include

detailed requirements to achieve the green and sustainable remediation goals. Further, progress with respect to green and sustainable remediation metrics will be tracked during implementation of this presumptive approach and reported in the final report, including a comparison to the goals established during the remedial design program.

### **3.2 Climate Vulnerability Assessment**

Additionally, the remedial design program will include a climate change vulnerability assessment, to evaluate the impact of climate change on the property and the proposed remedy. Potential vulnerabilities associated with extreme weather events (e.g., hurricanes, lightning, heat stress and drought), flooding, and sea level rise will be identified, and the remedial design program will incorporate measures to minimize the impact of climate change on potential identified vulnerabilities.

### **3.3 Waste Reduction**

Waste reduction will be completed during the remedy by developing an on-site recycling program and by reusing acceptable site materials which would otherwise be disposed of:

- Implement an on-site recycling program for personal consumables during the remedial phase of site work (such as paper, plastics, and aluminum)
- Use recycled content material during day-to-day operations, where practical.

#### **4.0 ADAPTIVE MANAGEMENT**

The PDI was performed to determine the general acceptability of the top foot to serve as a soil cover recognizing that certain grids may require additional investigation, including test pitting and trenching, to ensure an adequate clean cover spans the entire property which is protective of public health and the environment. The PDI Report and design drawings may be updated as new information becomes available.

Additionally, the NYSDEC is coordinating closely with the City of Corning on its redevelopment plans to minimize the need for NYSDEC to respond to and/or manage ABG encountered following implementation of the IRM WP during site management. To the extent practical, NYSDEC intends to provide a clean cover with grading, clean utility corridors to facilitate the restoration of the Corning Fire Department in a safe and effective manner. It is important to note that a clean cover may consist of vegetated soil, trees, asphalt, buildings, concrete or other features.

NYSDEC is implementing a presumptive IRM which will consist of a soil cover, ICs including an environmental easement where appropriate and a SMP. This approach is intended to be flexible and will be adaptively managed to ensure the best possible remedial outcome. Revisions to the IRM WP may be documented in an updated IRM WP, revised design drawings and/or the Final Engineering Report for the Site.

## **5.0 POST-CONSTRUCTION ACTIVITIES**

### **5.1 Final Engineering Report**

A Final Engineering Report (FER) will be prepared in accordance with Section 5.8 of DER-10 upon completion of the remedial action.

The FER will present the following information, at a minimum:

- Description of the remediation activities and any deviations from the work plan;
- Record “as-built” drawings, tables and figures detailing the remediation activities completed;
- Information and documentation regarding the final quantities and disposition of imported materials and materials disposed of off-site during implementation of the remediation activities;
- Summaries of field observations, laboratory samples collected, and monitoring results obtained during construction;
- Summaries of problems/deficiencies encountered during construction;
- Representative photographs taken during implementation of remediation activities;
- Copies of material manifests, regulatory permits, and other key regulatory agency correspondence related to permits and permit compliance;
- Certification statement signed and sealed by a professional engineer (PE) licensed in New York.

### **5.2 Site Management Plan**

The remedial design will require that a SMP be prepared for the Site. The SMP will be consistent with the applicable requirements of DER-10 Section 6.2, and in a format generally consistent with the NYSDEC’s SMP template. The SMP will consist of the following:

- Institutional and Engineering Controls Plan – describes the use restrictions and engineering controls that will be established, including but are not limited to:
  - Provisions for the evaluation of the potential for soil vapor intrusion for any building developed on the Site.
  - Provisions for the management and inspection of the engineering controls.
  - Maintaining Site access and Department notification.
  - The steps necessary for the periodic reviews and certification of the institutional control and/or engineering controls.
  - Provisions of the environmental easement including land use and groundwater restrictions.
- Excavation Plan – details the provisions for management of future excavations in areas of remaining contamination.
- Monitoring Plan – used to assess the performance and effectiveness of the remedy. The SMP will include requirements for post-remedial action groundwater monitoring, as well as Site inspection schedules, and NYSDEC reporting requirements.
- Operation and Maintenance (O&M) Plan – An O&M plan to ensure continued operation, maintenance, optimization, monitoring, inspection, and reporting of any mechanical or physical components of the cover system.

### **5.2.1 Institutional Controls and Engineering Controls (ICs/ECs)**

Institutional control in the form of an environmental easement will be established at the Site. Establishing an environmental easement for the controlled property requires the remedial party or Site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3). The remedy will allow land use and development of the Site for commercial or industrial uses as defined by Part 375-1.8(g). The easement shall restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or Steuben County DOH.

Additionally, the easement will require the remedial party and/or the Site owner to maintain engineering controls installed at the Site. The remedial party or Site owner would be required to complete the NYSDEC EC/IC form and maintain the Site cover. Exposure to excavated materials within the remediated areas of the Site is prevented by a cover system. The cover is vegetated to control erosion of the soil layers above the geotextile fabric. The vegetative cover will be maintained as part of the engineering controls for the Site. The easement shall also require compliance with an NYSDEC-approved SMP.

**6.0 PRELIMINARY PROJECT SCHEDULE**

HRP has the responsibility of the overall management of this project and will respond to any NYSDEC requests. A proposed project schedule, key milestones, key project personnel, and project-specific subcontractors follow.

**Table 3 – Preliminary Remedial Action Schedule**

<b>Task</b>	<b>Sub-Task</b>	<b>Start Date</b>	<b>End Date</b>
Construct Site Cover System	Submit PDI Report and IRM Work Plan	1/19/2026	2/06/2026
	NYSDEC Review of PDI Report and IRM WP	2/06/2026	3/06/2026
	Bid Package Development/Contracting/Procurement of Relevant Permits	3/06/2026	6/08/2026
	*Mobilization, E&S Controls	6/08/2026	6/11/2026
	*Clearing and Grubbing	6/11/2026	6/12/2026
	*Cover System Installation	6/15/2026	7/10/2026
	*Restoration	7/10/2026	7/15/2026
	*Demobilization	7/16/2026	7/16/2026
	*Prepare and Revise SMP	---	8/21/2026
*Prepare and Revise FER	---	8/21/2026	10/31/2026

\* Schedule is pendent upon agency review, approval of additional budget, and contracting

**Table 4 – Project Roles and Contact Information**

<b>Name</b>	<b>Role</b>	<b>Email</b>	<b>Address</b>	<b>Phone</b>
<b>New York State Department of Environmental Conservation</b>				
Michael Cruden	DEC Director, Remedial Bureau E	michael.cruden@dec.ny.gov	625 Broadway, Albany, NY 12233	518-402-9814
Samantha Salotto	DEC Section Chief, Remedial Bureau E, Section C	samantha.salotto@dec.ny.gov	625 Broadway, 12th Floor, Albany, NY 12233	518-402-9903
Thoren Giannuzzi	DEC Site Project Manager	thoren.giannuzzi@dec.ny.gov	625 Broadway, 12th Floor, Albany, NY 12233	518-402-8246
<b>New York State Department of Health</b>				
Johnathan Robinson	DOH Site Project Manager	johnathan.robinson@health.ny.gov	Empire State Plaza – Corning Tower Room #1787, Albany, NY 12233	518-402-7881



<b>HRP Associates, Inc.</b>				
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Bryan Sherman, CSP	Office Health & Safety Manager	bryan.sherman@hrpassociates.com	1 Fairchild Square, Clifton Park, NY 12065	518-877-7101
Michael Varni, PG	Corporate QA/QC Officer	michael.varni@hrpassociates.com	197 Scott Swamp Rd, Farmington, CT 06032	860-470-2733
Stephanie Pascual	Project Consultant	stephanie.pascual@hrpassociates.com	1 Fairchild Square, Clifton Park, NY 12065	518-877-7101

## 7.0 REFERENCES

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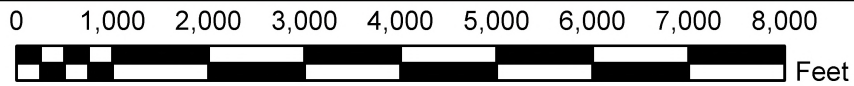
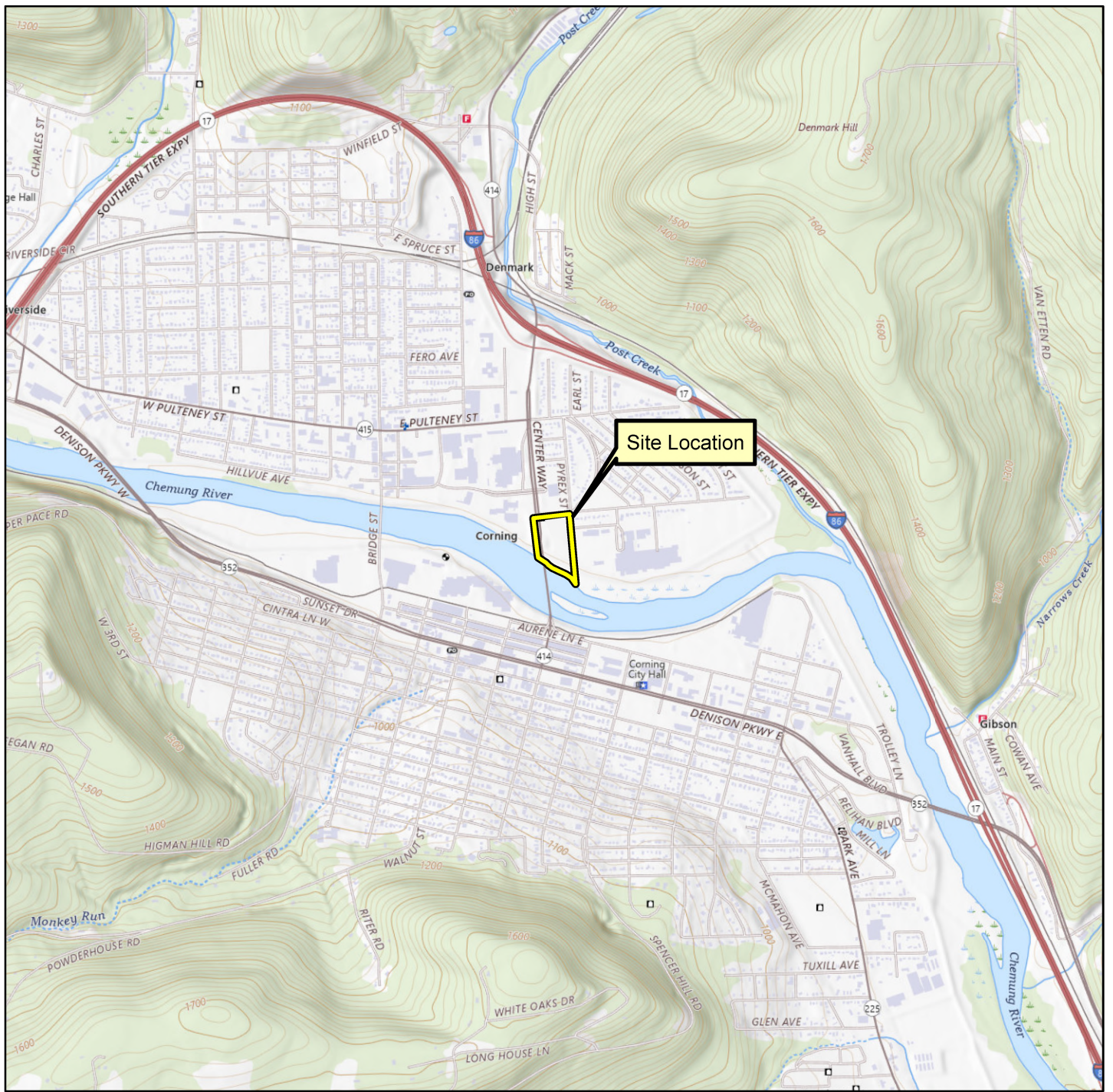
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# FIGURES



**Figure 1**  
**Site Location**  
**City of Corning**  
**Fire Department**  
**Site ID 851050**  
**2 Corning Boulevard,**  
**Corning, New York, 14830**

USGS Quadrangle Information  
Quad ID: 42077-B1  
Name: Corning, New York  
Date Rev: 2016  
Date Pub: 2019



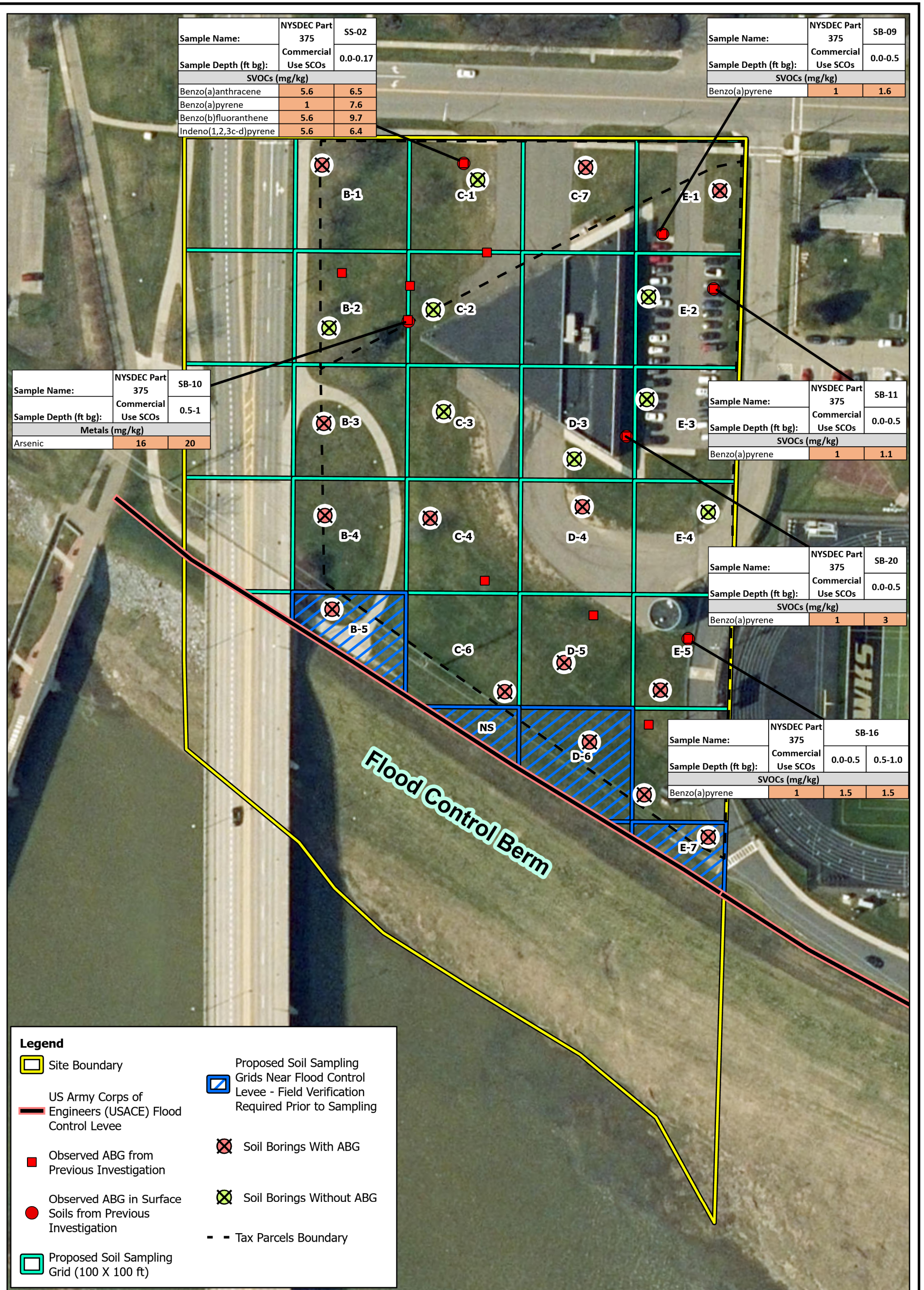
ONE FAIRCHILD SQUARE  
SUITE 110  
CLIFTON PARK, NY 12065  
(518) 877-7101  
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**Legend**

- Site Boundary
- Maintained by Department of Transportation
- Maintained by the City of Corning

<b>Figure No.</b>  <b>2</b>	<b>Site Boundary Map</b>  City of Corning Fire Department Site ID 851050 2 Corning Boulevard, Corning, New York, 14830	Issue Date: 02/16/2026	Designed By: CMS	Revisions		<p><b>North</b></p>	<p><b>HRP</b> MOVE YOUR ENVIRONMENT FORWARD</p> <p>ONE FAIRCHILD SQUARE SUITE 110 CLIFTON PARK, NY 12065 (518) 877-7101 HRPASSOCIATES.COM</p>	
		Project No: DEC1056.P3	Drawn By: AJN	No.	Date			<p>0    40    80 Feet</p>
		Sheet Size: 11x17	Reviewed By:					



<b>Figure No.</b>  <b>3</b>	<b>ABG Observations</b>  City of Corning Fire Department Site ID 851050 2 Corning Boulevard, Corning, New York, 14830	Issue Date: 02/16/2026	Designed By: CMS	Revisions No. Date		North  	 ONE FAIRCHILD SQUARE SUITE 110 CLIFTON PARK, NY 12065 (518) 877-7101 HRPASSOCIATES.COM
		Project No: DEC1056.P3	Drawn By: AJN				
		Sheet Size: 11x17	Reviewed By:				

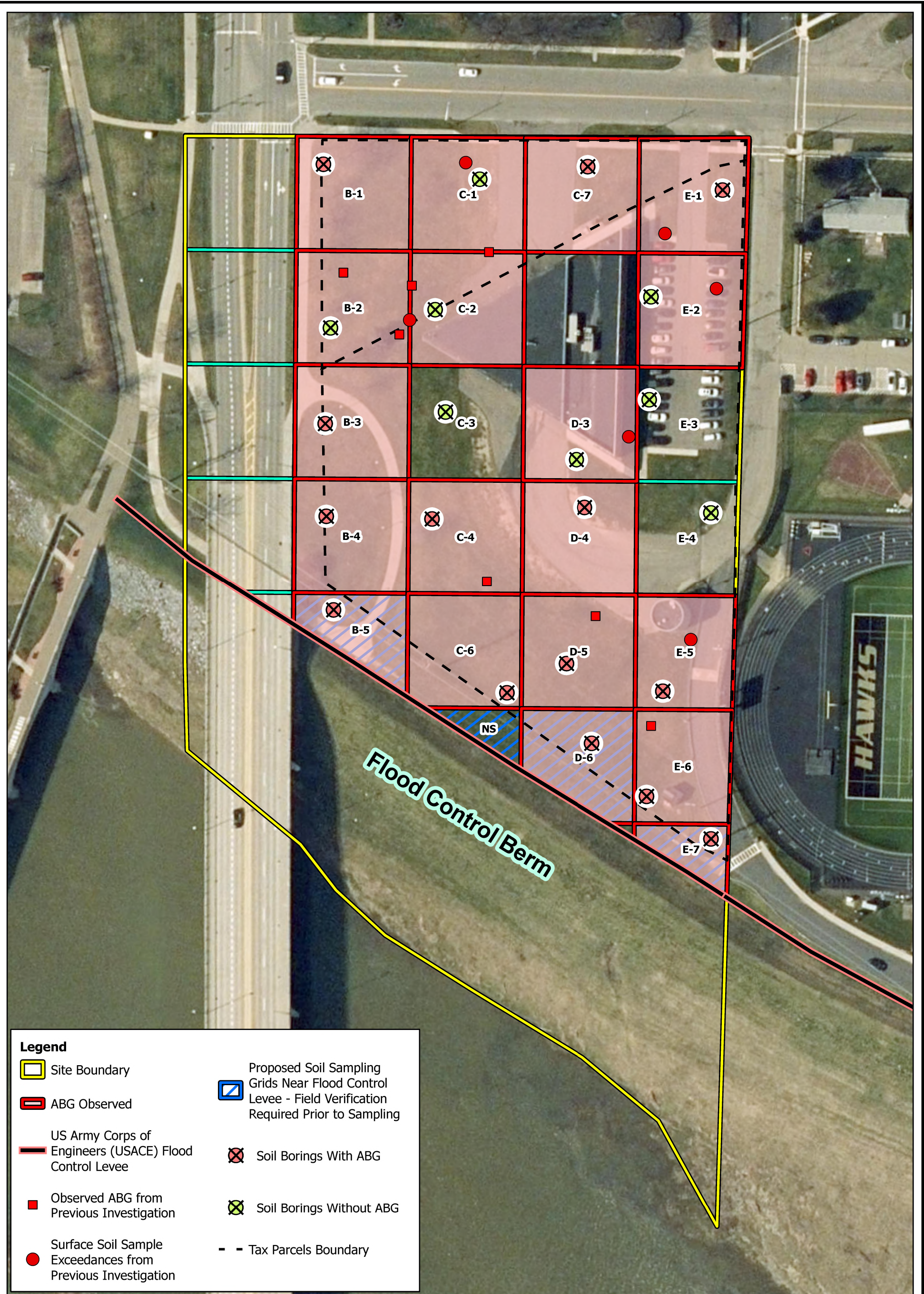


Figure No.  
**4**

**Sampling Grids Selected for Excavation**  
 City of Corning  
 Fire Department  
 Site ID 851050  
 2 Corning Boulevard,  
 Corning, New York, 14830

Issue Date:  
02/06/2026  
 Project No:  
DEC1056.P3  
 Sheet Size:  
11x17

Designed By:  
CMS  
 Drawn By:  
AJN  
 Reviewed By:  
JG

Revisions	
No.	Date

North

0 40 80 Feet

**HRP**  
 MOVE YOUR ENVIRONMENT FORWARD  
 ONE FAIRCHILD SQUARE  
 SUITE 110  
 CLIFTON PARK, NY 12065  
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# TABLES

**Table 1**  
**Site Characterization Sample Summary**  
 Corning City Fire Department  
 2 Corning Boulevard, Corning, New York 14830  
 NYSDEC Site # 851050

**Sediment Exceedances**

Analyte	NYSDEC Sediment Class A	NYSDEC Sediment Class C	CCFD-SED-01-0-0.5	CCFD-SED-02-1-2	CCFD-SED-03-0.5-1	CCFD-SED-03-1-2	CCFD-SED-04-0.5-1	CCFD-SED-04-1-2	CCFD-SED-05-1-2	CCFD-SED-06-0-0.5	CCFD-SED-06-0.5-1	CCFD-SED-06-1-2
<b>Metals (mg/kg)</b>												
Copper	32	150	49	--	--	33	--	--	--	--	--	--
Lead	36	130	--	45	--	150	--	85	--	--	--	--
Silver	1	2.2	--	--	1.1	1.3	1.1	1.1	1.1	1.1	1.1	1
Zinc	120	460	--	--	--	150	--	130	--	--	--	--
Mercury	0.2	1	--	--	--	0.28	--	--	--	--	--	--

**Subsurface Soil Exceedances**

Analyte	Commerical SCO	CCFD-TP-01-5-5.5	CCFD-MW-01-2-3	CCFD-MW-02-6-8	CCFD-SB-04-4-4.5	CCFD-SB-06-1-2	CCFD-SB-09-0-0.5	CCFD-SB-10-0.5-1	CCFD-SB-10-1-2	CCFD-SB-10-10-12
<b>Metals (mg/kg)</b>										
Arsenic	16	50	94	110	--	24	--	20	22	87
Barium	400	--	--	--	--	--	--	--	--	--
Cadmium	9.3	26	--	100	11	19	--	--	--	--
Lead	1000	1300	--	--	1200	--	--	--	--	--
<b>SVOCS (mg/kg)</b>										
Benzo(a)pyrene	1	1.5	4.8	--	--	--	1.6	--	--	--
Benzo(b)fluoranthene	5.6	--	6.8	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	0.56	--	0.81	--	--	--	--	--	--	--

Analyte	Commerical SCO	CCFD-SB-10-13-15	CCFD-SB-11-0-0.5	CCFD-SB-11-7-9	CCFD-SB-16-0-0.5	CCFD-SB-16-0.5-1	CCFD-19-0-0.5	CCFD-SB-20-0-0.5	CCFD-SB-20-0.5-1
<b>Metals (mg/kg)</b>									
Arsenic	16	38	--	--	--	--	--	--	--
Barium	400	--	--	470	--	--	--	--	--
Cadmium	9.3	--	--	--	--	--	--	--	--
Lead	1000	--	--	--	--	--	--	--	--
<b>SVOCS (mg/kg)</b>									
Benzo(a)pyrene	1	--	1.1	--	1.5	1.5	1.7	3	1.2
Benzo(b)fluoranthene	5.6	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	0.56	--	--	--	--	--	--	--	--

**Surface Soil Exceedances**

Analyte	Commerical SCO	CCFD-SS-02-0-0.17
<b>SVOCS (mg/kg)</b>		
Benzo(a)anthracene	5.6	6.5
Benzo(a)pyrene	1	7.6
Benzo(b)fluoranthene	5.6	9.7
Dibenz(a,h)anthracene	0.56	1
Ideno(1,2,3-c,d)pyrene	5.6	6.4

**Groundwater Exceedances**

Analyte	NYSDEC Class GA	CCFD-MW-01-101823	CCFD-MW-02-101823	CCFD-MW-03-101723
<b>Metals (mg/L)</b>				
Selenium	0.01	--	0.032	--
Sodium	20	66	89	45

**Table 2**  
**Summary of ABG Locations and Analytical Samples Pre-Design Investigation Report**  
**Corning Fire Department, Site #851050**  
**2 Corning Boulevard,**  
**Corning, New York**

Location:	Part 375 Restricted Residential	Part 375 Commercial	B-1	B-1	B-2	B-2	C-1	C-1	C-2	C-2	C-3	C-3	
Date Collected:			11/17/2025	11/17/2025	11/17/2025	11/17/2025	11/17/2025	11/17/2025	11/17/2025	11/17/2025	11/17/2025	11/17/2025	11/17/2025
Sample ID:			B-1 (0-2in)	B-1 (2-12in)	B-2 (0-2in)	B-2 (2-12in)	C-1 (0-2in)	C-1 (2-12in)	C-2 (0-2in)	C-2 (2-12in)	C-3 (0-2in)	C-3 (2-12in)	C-3 (2-12in)
Laboratory Sample ID:			25K1213-11	25K1213-12	25K1213-13RE1	25K1213-14RE1	25K1213-09	25K1213-10	25K1213-01	25K1213-02	25K1213-03	25K1213-04	25K1213-04
<b>General Chemistry Parameters</b>													
Solids, Percent	NP	NP	79.3	88.6	83.7	83.2	79.9	87.9	79.9	83.2	74.5	85.7	
<b>Semivolatile Organic Compounds (SVOC) (mg/kg)</b>													
1-Methylnaphthalene	NP	NP	0.0140 J	0.042	0.00550 J	0.00720 J	< 0.0410 U	< 0.0370 U	< 0.0410 U	< 0.0400 U	< 0.0440 U	0.00580 J	
2-Methylnaphthalene	NP	NP	0.0200 J	0.052	0.00710 J	0.00960 J	< 0.0410 U	< 0.0370 U	< 0.0410 U	< 0.0400 U	< 0.0440 U	0.0110 J	
Acenaphthene	100	500	< 0.0420 U	0.00680 J	< 0.0390 U	< 0.0390 U	< 0.0410 U	< 0.0370 U	< 0.0410 U	< 0.0400 U	< 0.0440 U	< 0.0380 U	
Acenaphthylene	100	500	0.0230 J	0.041	0.00740 J	0.0170 J	0.0120 J	0.0100 J	< 0.0410 U	< 0.0400 U	0.00850 J	< 0.0380 U	
Anthracene	100	500	0.0150 J	0.0290 J	0.00780 J	0.0170 J	0.0100 J	0.00760 J	0.00750 J	< 0.0400 U	0.00760 J	< 0.0380 U	
Benzaldehyde	NP	NP	< 0.430 U	< 0.380 U	0.0830 J	< 0.410 U	< 0.420 U	< 0.390 U	< 0.420 U	< 0.410 U	0.330 J	< 0.400 U	
Benzo(a)anthracene	1.4	37	0.096	0.12	0.049	0.073	0.045	0.0370 J	0.06	0.0340 J	0.0390 J	0.0350 J	
Benzo(a)pyrene	1	3.7	0.12	0.14	0.051	0.082	0.053	0.051	0.077	0.04	0.052	0.049	
Benzo(b)fluoranthene	1.4	37	0.2	0.25	0.078	0.12	0.083	0.065	0.12	0.065	0.082	0.076	
Benzo(ghi)perylene	4.9	47	0.096	0.11	0.043	0.072	0.044	0.047	0.057	0.0270 J	0.0440 J	0.061	
Benzo(k)fluoranthene	4.9	47	0.065	0.085	0.0270 J	0.041	0.0270 J	0.0260 J	0.042	0.0210 J	0.0290 J	0.0280 J	
Bis(2-ethylhexyl)phthalate	NP	NP	< 0.430 U	< 0.380 U	< 0.400 U	< 0.410 U	< 0.420 U	< 0.390 U	< 0.420 U	< 0.410 U	< 0.450 U	< 0.400 U	
Butylbenzyl phthalate	NP	NP	< 0.430 U	< 0.380 U	< 0.400 U	< 0.410 U	< 0.420 U	< 0.390 U	< 0.420 U	< 0.410 U	< 0.450 U	< 0.400 U	
Carbazole	NP	NP	< 0.210 U	< 0.190 U	< 0.200 U	< 0.200 U	< 0.210 U	< 0.190 U	< 0.210 U	< 0.200 U	< 0.230 U	< 0.200 U	
Chrysene	4.9	47	0.15	0.22	0.056	0.15	0.094	0.051	0.04	0.083	0.043	0.058	
Dibenzo(a,h)anthracene	0.33	3.7	0.0290 J	0.0360 J	< 0.0390 U	< 0.0390 U	< 0.0410 U	< 0.0370 U	< 0.0410 U	< 0.0400 U	< 0.0440 U	< 0.0380 U	
Fluoranthene	100	500	0.21	0.26	0.094	0.17	0.067	0.042	0.16	0.08	0.1	0.054	
Fluorene	100	500	0.00840 J	< 0.0370 U	< 0.0390 U	0.00640 J	< 0.0410 U	< 0.0370 U	< 0.0410 U	< 0.0400 U	< 0.0440 U	< 0.0380 U	
Indeno(1,2,3-cd)pyrene	1.4	37	0.11	0.12	0.045	0.073	0.054	0.052	0.06	0.0320 J	0.046	0.051	
Naphthalene	100	500	0.0180 J	0.054	0.00980 J	0.0120 J	< 0.0410 U	< 0.0370 U	< 0.0410 U	< 0.0400 U	0.00890 J	< 0.0380 U	
Phenanthrene	4.9	47	0.089	0.15	0.0360 J	0.069	0.0200 J	0.0130 J	0.06	0.0270 J	0.044	0.0140 J	
Phenol	100	500	< 0.430 U	< 0.380 U	< 0.400 U	< 0.410 U	< 0.420 U	< 0.390 U	< 0.420 U	< 0.410 U	0.0540 J	< 0.400 U	
Pyrene	100	500	0.17	0.21	0.07	0.12	0.062	0.041	0.12	0.056	0.068	0.045	
<b>Metals (mg/kg)</b>													
Aluminum	NP	NP	7100	6310	5900	6790	9070	9360	6250	6220	6330	9630	
Arsenic	16	16	9.1	14.1	7.28	7.82	6.11	5.76	5.2	5.07	5.84	5.91	
Barium	410	410	101	108	78.2	87.3	114	132	84.3	84.9	84.8	129	
Beryllium	43	670	0.577	0.519	0.423 J	0.479	0.498	0.492	0.354 J	0.351 J	0.351 J	0.503	
Boron	4300	62000	5.3	8.7	7.11	6.5	1.76 J	1.54 J	1.97 J	1.59 J	3.45	1.54 J	
Cadmium	2.5	3.7	1.02	0.884 J	0.819 J	0.907 J	0.257 J	0.180 J	0.300 J	0.300 J	0.288 J	0.204 J	
Calcium	NP	NP	2650	5610	2960	3610	4190	7790	1480	1370	5180	3560	
Chromium	110	1700	11.5	18.4	8.77	10.1	12.1	12.2	8.46	8.52	10	12.6	
Cobalt	NP	NP	11.3	10.3	8.07	9.25	8.62	8.98	7.11	7.2	6.69	9.58	
Copper	280	280	27.6	46.2	15.7	17.8	15.3	14.7	12.2	12.2	16.5	13.8	
Iron	NP	NP	17800	22100	13800	15600	19000	19600	14200	14200	16100	21300	
Lead	400	1000	102	123	68.1	74.5	16.1	12.2	28.9	28.3	13.7	8.92	
Magnesium	NP	NP	2390	2770	2230	2580	2880	3440	2050	2040	3010	3470	
Manganese	2000	10000	598	494	458	522	674	540	406	423	450	463	
Mercury	0.3	1.1	0.0850 J	0.082	0.099	0.101	< 0.0920 U	< 0.0770 U	< 0.0880 U	< 0.0780 U	< 0.0920 U	< 0.0730 U	
Nickel	320	320	20.7	21	15.7	18.2	18.6	18	14.4	14.6	13.6	19	
Potassium	NP	NP	736	450	640	635	657	648	580	479	591	667	
Selenium	110	1700	0.847 J	1.09 J	0.533 J	0.444 J	0.417 J	< 1.77 U	< 1.96 U	0.323 J	< 2.08 U	< 1.81 U	
Sodium	NP	NP	< 190 U	< 177 U	< 182 U	< 185 U	350	357	< 196 U	< 187 U	738	669	
Vanadium	NP	NP	10.8	11.2	8.31	9.5	12.3	14	8.6	8.59	9.28	15.3	
Zinc	6600	10000	120	127	79.4	90.3	60.8	54.5	54.9	54.6	57	52.1	

Legend	
<1	Parameter not detected above the laboratory reporting limit
1	Parameter reported above the laboratory reporting limit but below the applicable regulatory standard/criterion
1	Parameter reported at a concentrations greater than Part 375 Restricted Residential SCOs
1	Parameter reported at a concentrations greater than Part 375 Commercial SCOs

**Notes:**  
ft bg = feet below grade  
mg/kg = micrograms per kilogram  
NA = Not Analyzed  
NP = not promulgated/ no applicable SCO  
SCO = Soil Cleanup Objective  
J = Detected but below the Reporting Limit (lowest calibration standard)  
U = indicates that the results of the parameter is above the Method Detection Limit



**Table 2**  
**Summary of ABG Locations and Analytical Samples Pre-Design Investigation Report**  
**Corning Fire Department, Site #851050**  
**2 Corning Boulevard,**  
**Corning, New York**

Location:	Part 375 Restricted Residential	Part 375 Commercial	D-3	D-3	E-1	E-2	E-2	E-3	E-4	E-4
Date Collected:			11/17/2025	11/17/2025	11/17/2025	11/17/2025	11/17/2025	11/17/2025	11/17/2025	11/17/2025
Sample ID:			D-3 (0-2in)	D-3 (2-12in)	E-1 (2-12in)	E-2 (0-2in)	E-2 (2-12in)	E-3 (0-2in)	E-4 (2-12in)	E-4 (0-2in)
Laboratory Sample ID:			25K1216-01	25K1216-02	25K1213-08	25K1216-03	25K1216-04	25K1216-05	25K1213-06	25K1213-05
<b>General Chemistry Parameters</b>										
Solids, Percent	NP	NP	82	87	82.8	81	91.2	82.3	82.9	77.1
<b>Semivolatile Organic Compounds (SVOC) (mg/kg)</b>										
1-Methylnaphthalene	NP	NP	< 0.0400 U	< 0.0380 U	< 0.0400 U	< 0.0410 U	< 0.0360 U	< 0.0400 U	< 0.0400 U	< 0.0430 U
2-Methylnaphthalene	NP	NP	< 0.0400 U	<b>0.00570 J</b>	< 0.0400 U	< 0.0410 U	< 0.0360 U	< 0.0400 U	< 0.0400 U	< 0.0430 U
Acenaphthene	100	500	<b>0.0150 J</b>	<b>0.0260 J</b>	<b>0.00760 J</b>	<b>0.00660 J</b>	< 0.0360 U	< 0.0400 U	< 0.0400 U	< 0.0430 U
Acenaphthylene	100	500	<b>0.0150 J</b>	<b>0.0190 J</b>	<b>0.00920 J</b>	<b>0.0120 J</b>	< 0.0360 U	<b>0.00570 J</b>	<b>0.0100 J</b>	< 0.0430 U
Anthracene	100	500	<b>0.071</b>	<b>0.13</b>	<b>0.043</b>	<b>0.0310 J</b>	<b>0.00690 J</b>	<b>0.00970 J</b>	<b>0.0310 J</b>	<b>0.00860 J</b>
Benzaldehyde	NP	NP	< 0.410 U	< 0.390 U	< 0.410 U	< 0.420 U	< 0.370 U	< 0.410 U	< 0.410 U	< 0.440 U
Benzo(a)anthracene	1.4	37	<b>0.48</b>	<b>0.75</b>	<b>0.28</b>	<b>0.23</b>	<b>0.05</b>	<b>0.061</b>	<b>0.34</b>	<b>0.051</b>
Benzo(a)pyrene	1	3.7	<b>0.62</b>	<b>0.92</b>	<b>0.33</b>	<b>0.3</b>	<b>0.057</b>	<b>0.086</b>	<b>0.46</b>	<b>0.082</b>
Benzo(b)fluoranthene	1.4	37	<b>0.86</b>	<b>1.3</b>	<b>0.45</b>	<b>0.45</b>	<b>0.082</b>	<b>0.13</b>	<b>0.62</b>	<b>0.12</b>
Benzo(ghi)perylene	4.9	47	<b>0.54</b>	<b>0.66</b>	<b>0.25</b>	<b>0.22</b>	<b>0.042</b>	<b>0.083</b>	<b>0.44</b>	<b>0.092</b>
Benzo(k)fluoranthene	4.9	47	<b>0.31</b>	<b>0.46</b>	<b>0.17</b>	<b>0.16</b>	<b>0.0300 J</b>	<b>0.049</b>	<b>0.22</b>	<b>0.0380 J</b>
Bis(2-ethylhexyl)phthalate	NP	NP	<b>0.0990 J</b>	<b>0.150 J</b>	< 0.410 U	< 0.420 U	< 0.370 U	< 0.410 U	< 0.410 U	< 0.440 U
Butylbenzyl phthalate	NP	NP	<b>0.0500 J</b>	<b>0.0570 J</b>	< 0.410 U	< 0.420 U	< 0.370 U	< 0.410 U	< 0.410 U	< 0.440 U
Carbazole	NP	NP	<b>0.0590 J</b>	<b>0.110 J</b>	< 0.200 U	< 0.210 U	< 0.190 U	< 0.210 U	< 0.200 U	< 0.220 U
Chrysene	4.9	47	<b>0.6</b>	<b>0.91</b>	<b>0.32</b>	<b>0.058</b>	<b>0.32</b>	<b>0.085</b>	<b>0.36</b>	<b>0.06</b>
Dibenzo(a,h)anthracene	0.33	3.7	<b>0.1</b>	<b>0.12</b>	<b>0.056</b>	<b>0.049</b>	< 0.0360 U	<b>0.0210 J</b>	<b>0.079</b>	<b>0.0210 J</b>
Fluoranthene	100	500	<b>1.3</b>	<b>2.2</b>	<b>0.76</b>	<b>0.51</b>	<b>0.11</b>	<b>0.15</b>	<b>0.61</b>	<b>0.089</b>
Fluorene	100	500	<b>0.0190 J</b>	<b>0.0330 J</b>	<b>0.0110 J</b>	<b>0.00900 J</b>	< 0.0360 U	< 0.0400 U	< 0.0400 U	< 0.0430 U
Indeno(1,2,3-cd)pyrene	1.4	37	<b>0.56</b>	<b>0.71</b>	<b>0.27</b>	<b>0.24</b>	<b>0.045</b>	<b>0.089</b>	<b>0.43</b>	<b>0.085</b>
Naphthalene	100	500	<b>0.00930 J</b>	<b>0.0120 J</b>	< 0.0400 U	< 0.0410 U	< 0.0360 U	< 0.0400 U	< 0.0400 U	< 0.0430 U
Phenanthrene	4.9	47	<b>0.45</b>	<b>0.79</b>	<b>0.26</b>	<b>0.18</b>	<b>0.038</b>	<b>0.066</b>	<b>0.082</b>	<b>0.0300 J</b>
Phenol	100	500	< 0.410 U	< 0.390 U	< 0.410 U	< 0.420 U	< 0.370 U	< 0.410 U	< 0.410 U	< 0.440 U
Pyrene	100	500	<b>0.89</b>	<b>1.4</b>	<b>0.57</b>	<b>0.37</b>	<b>0.083</b>	<b>0.1</b>	<b>0.53</b>	<b>0.078</b>
<b>Metals (mg/kg)</b>										
Aluminum	NP	NP	<b>6420</b>	<b>6760</b>	<b>7280</b>	<b>5680</b>	<b>5060</b>	<b>5420</b>	<b>9840</b>	<b>9370</b>
Arsenic	16	16	<b>6.03</b>	<b>5.68</b>	<b>5.66</b>	<b>4.26</b>	<b>4.3</b>	<b>5.34</b>	<b>5.16</b>	<b>5.84</b>
Barium	410	410	<b>79.1</b>	<b>80</b>	<b>94.6</b>	<b>78.4</b>	<b>73.4</b>	<b>76.9</b>	<b>113</b>	<b>99.4</b>
Beryllium	43	670	<b>0.351 J</b>	<b>0.372 J</b>	<b>0.426 J</b>	<b>0.303 J</b>	<b>0.281 J</b>	<b>0.272 J</b>	<b>0.507</b>	<b>0.503</b>
Boron	4300	62000	<b>3.04</b>	<b>2.78</b>	<b>5.11</b>	<b>3.2</b>	<b>2.26 J</b>	<b>3.01</b>	<b>1.70 J</b>	<b>2.06 J</b>
Cadmium	2.5	3.7	<b>0.345 J</b>	<b>0.645 J</b>	<b>0.585 J</b>	<b>0.230 J</b>	<b>0.202 J</b>	<b>0.154 J</b>	<b>0.155 J</b>	<b>0.156 J</b>
Calcium	NP	NP	<b>3600</b>	<b>5200</b>	<b>1870</b>	<b>7820</b>	<b>18500</b>	<b>13200</b>	<b>7660</b>	<b>3570</b>
Chromium	110	1700	<b>12.9</b>	<b>11.5</b>	<b>9.51</b>	<b>8.38</b>	<b>8.25</b>	<b>9.36</b>	<b>12.9</b>	<b>12.2</b>
Cobalt	NP	NP	<b>6.58</b>	<b>7.16</b>	<b>7.91</b>	<b>6.16</b>	<b>5.46</b>	<b>5.8</b>	<b>9.36</b>	<b>8.6</b>
Copper	280	280	<b>18.3</b>	<b>22.8</b>	<b>11.9</b>	<b>14.3</b>	<b>13.9</b>	<b>14.4</b>	<b>15.9</b>	<b>15</b>
Iron	NP	NP	<b>15100</b>	<b>15600</b>	<b>16100</b>	<b>13400</b>	<b>12700</b>	<b>13400</b>	<b>21400</b>	<b>19700</b>
Lead	400	1000	<b>28.3</b>	<b>44.4</b>	<b>31.3</b>	<b>16.1</b>	<b>18.2</b>	<b>11.6</b>	<b>7.86</b>	<b>11.9</b>
Magnesium	NP	NP	<b>2660</b>	<b>2880</b>	<b>2370</b>	<b>3260</b>	<b>3250</b>	<b>3780</b>	<b>3800</b>	<b>3790</b>
Manganese	2000	10000	<b>459</b>	<b>440</b>	<b>536</b>	<b>500</b>	<b>502</b>	<b>521</b>	<b>412</b>	<b>596</b>
Mercury	0.3	1.1	< 0.0820 U	< 0.0740 U	< 0.0860 U	< 0.0830 U	< 0.0750 U	< 0.0830 U	< 0.0880 U	< 0.0860 U
Nickel	320	320	<b>14.5</b>	<b>13.2</b>	<b>16</b>	<b>13.2</b>	<b>11.8</b>	<b>13.2</b>	<b>19.2</b>	<b>19.1</b>
Potassium	NP	NP	<b>471</b>	<b>469</b>	<b>444</b>	<b>534</b>	<b>424</b>	<b>538</b>	<b>714</b>	<b>666</b>
Selenium	110	1700	<b>0.499 J</b>	< 1.82 U	<b>0.425 J</b>	< 1.89 U	< 1.67 U	< 1.90 U	< 1.87 U	< 1.98 U
Sodium	NP	NP	<b>143 J</b>	<b>357</b>	< 184 U	< 189 U	< 167 U	< 190 U	<b>249</b>	<b>362</b>
Vanadium	NP	NP	<b>10.1</b>	<b>8.43</b>	<b>10</b>	<b>8.43</b>	<b>7.69</b>	<b>8.28</b>	<b>15.9</b>	<b>13.4</b>
Zinc	6600	10000	<b>67</b>	<b>86.6</b>	<b>55.1</b>	<b>58.4</b>	<b>49.2</b>	<b>58.4</b>	<b>50.7</b>	<b>58.3</b>

Legend	
<1	Parameter not detected above the laboratory reporting limit
1	Parameter reported above the laboratory reporting limit but below the applicable regulatory
1	Parameter reported at a concentrations greater than Part 375 Unrestricted SCOs
1	Parameter reported at a concentrations greater than Part 375 Commercial SCOs

Notes:  
ft bg = feet below grade  
mg/kg = micrograms per kilogram  
NA = Not Analyzed  
NP = not promulgated/ no applicable SCO  
SCO = Soil Cleanup Objective  
J = Detected but below the Reporting Limit (lowest calibration standard)  
U = indicates that the results of the parameter is above the Method Detection Limit



# APPENDIX A

## Site-Specific Health and Safety Plan



MOVE YOUR ENVIRONMENT FORWARD

# SITE-SPECIFIC HEALTH AND SAFETY PLAN (HASP)

## City of Corning Fire Department – Site # 851050

2 Corning Boulevard  
City of Corning, New York 14830

### Prepared For:

New York State Department of Environmental Conservation  
625 Broadway  
Albany, New York 12233  
Contract #D009808

### Prepared By:

HRP Associates, Inc.  
1 Fairchild Square, Suite 110  
Clifton Park, NY 12065

HRP #: DEC1056.P3

Issued On: October 20, 2025

ADDENDUM LOG		
Addendum Number	Date Issued	Modification(s) Needed/Reason(s)



## **DISCLAIMER**

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*HRP Associates, Inc. does not guarantee the health or safety of any person entering this site. Due to the potential hazards of this site and the activity occurring thereon, it is not possible to discover, evaluate, and provide protection for all possible hazards which may be encountered. Strict adherence to the health and safety guidelines set forth herein will reduce, but not eliminate, the potential for injury at this site. The health and safety guidelines in this plan were prepared specifically for this site for use and should not be used on any other site.*

*If unexpected conditions were to arise, any employee will have "Stop Work Authority." Employees should be capable of identifying existing and predictable hazards in their surroundings or working conditions that are unsanitary, hazardous, or dangerous to the workers. The employee(s) has the authority to impose prompt corrective measures to eliminate these hazards. Some examples include the ability to stop work, close a jobsite, or evacuate workers if needed.*

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**1.0 INTRODUCTION**

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This Health and Safety Plan (HASP) has been prepared for the City of Corning Fire Department (NYSDEC Site #851050) Remedial Investigation/Feasibility Study (RI/FS). The general and contact information of the site can be found on **Table 1** below.

This HASP has been developed in accordance with HRP Associates, Inc.’s (HRP) Health and Safety (H&S) procedures as required under the Occupational Safety and Health Administration’s (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) regulation (Code of Federal Regulations (CFR), 29 CFR 1910.120). Specific H&S information for the project is contained in this HASP. This Plan has also been developed to establish minimum standards necessary for onsite investigation activities to protect the H&S of HRP personnel.

HRP personnel and associated contractors shall be familiar with this HASP prior to conducting proposed site work. This plan must be present onsite and be available for reference/inspection when the subject site work is being conducted.

All project personnel shall sign the certification page acknowledging that they have read and understand this HASP. Changes in the scope of the project or introduction of new hazards to the project shall require revision of the HASP, and approval by the Project Manager (PM) under the Addendum Log.

<b>TABLE 1 GENERAL INFORMATION</b>		
<b>Project Number</b>	DEC1056.P3	
<b>Site/Project Name</b>	City of Corning Fire Department – Site #851050	
<b>Site Address/Location</b>	2 Corning Boulevard, Corning, NY	
<b>CONTACTS</b>		
<b>HRP’s Contacts</b>		
Title	Name	Phone Number
<b>Project Manager</b>	John Gorman	716-225-5545
<b>Site Safety Officer</b>	Stephanie Pascual	951-231-4080
<b>Site-Specific Contacts</b>		
<b>Name</b>	Thoren Gianuzzi, Project Manager	
<b>Title</b>	Project Manager, New York State Department of Environmental Conservation	
<b>Phone</b>	518-402-8246	



## 2.0 **EMERGENCY CONTACTS AND PROCEDURES**

### 2.1 **Contacts**

**Table 2** presents the Emergency Contact information associated with the planned RI/FS work. The following information, including directions to the nearest hospital shall be posted at the Site. When contacting the local authorities, be sure to provide: your name, facility name, full address, telephone number, and the nature of the emergency. The information on **Table 2** should be revised, if necessary, upon review of the work to be completed and prior to initializing the activities.

<b>TABLE 2 EMERGENCY CONTACTS</b>		
<b>Contact</b>	<b>Name</b>	<b>Phone Number</b>
Local Police	City of Corning Police Department	607-962-0340 ext. 1500
Local Ambulance	Guthrie Corning Hospital	607-937-7200
Local Fire Department	City of Corning Fire Department	607-962-0340
Poison Control Center	The Upstate New York Poison Control Center	1-800-222-1222
National Response Center	National Response Center	800-424-8802
Spill Response Agency	NYSDEC Spills Hotline	1-800-457-7362
Local Hospital	Guthrie Corning Hospital	607-937-7200
Local Hospital Address (Map in <b>Figure 3</b> )	1 Guthrie Drive, Corning, NY	
HRP's Site Safety Officer	Stephanie Pascual	951-231-4080
Project Manager	John Gorman	716-225-5545
State Agency PM	Thoren Gianuzzi, Project Manager, NYSDEC	518-402-8246
Site Owner/Contact	Brad Davies, Corning Fire Department Chief	607-215-3416

***For the police, ambulance, and fire department, contact 9-1-1.***

The Site Safety Officer will coordinate the entry and exit of response personnel in the event of an emergency.

Map and directions to the following medical facilities are provided on **Figure 3**.

### 2.2 **Emergency Procedures**

In the event of a worker injury, fire, explosion, spill, flood, or other emergency that threatens the safety and health of site workers, the following procedure will be followed:

1. If the emergency originates within the work area covered by this Plan, the HRP Site Safety Officer shall act as the Emergency Coordinator. The emergency evacuation signal is an air



horn or a loud yell. All emergency situations (including worker injuries, no matter how small) will be reported to the Site Safety Officer, who will determine the appropriate emergency response, up to and including evacuation. The Site Safety Officer will be responsible for reporting any emergency situation to the appropriate authorities, using a telephone or other appropriate method.

2. In the case of an evacuation, site workers will exit the site along the safest route(s) and assemble with team members at a safe rally point. Those workers in the Exclusion Zone will follow the emergency decontamination procedures outlined in **Section 6.4**. Accounting for all site personnel will be conducted by the Site Safety Officer using the personnel log at a location determined by the Site Safety Officer.
3. HRP personnel are not permitted to participate in handling the emergency. Fire and medical emergencies will be handled by the local fire department and ambulance service. In the case of a spill of hazardous materials, a local commercial spill clean-up firm should be contacted.

If the spill begins to flow overland and threatens to contaminate a storm drain or surface water, HRP personnel may attempt to contain and isolate the spill using any available resources, but only if, in the judgment of the Site Safety Officer, such action will not expose the workers to dangerous levels of hazardous substances and is necessary to preserve life or property. In the event that a spill of material of any amount threatens to reach navigable waters, the National Response Center (NRC) shall be contacted.

4. Once initial emergency procedures to protect worker safety and health have been addressed, and control of emergency has been completed, the Site Safety Officer will complete HRP’s Incident Investigation Report and submit this form to the appropriate personnel (HRP and/or client contact).
5. All site workers will be familiarized with the above procedures during the pre-entry briefing to be conducted before site work begins.

In the event of an evacuation, meet at the following rally points (shown on **Figure 2**):

- Parking lot outside of the City Fire Department building (east side of building).

### 2.3 Emergency Supplies and Equipment

**Table 3** presents the appropriate Emergency Supplies and Equipment List for the planned listed work. Select the appropriate supplies and equipment based on the proposed work. The information on **Table 3** should be revised, if necessary, upon review of the listed work and prior to initializing the activities.

<b>TABLE 3 EMERGENCY SUPPLIES/EQUIPMENT</b>	
<b>SUPPLY ITEM</b>	<b>LOCATION ONSITE</b>
<input checked="" type="checkbox"/> First Aid Kit	In Vehicle/Site Building
<input checked="" type="checkbox"/> Fire Extinguisher	In Vehicle/Site Building
<input checked="" type="checkbox"/> Eye Wash (Bottle)	In Vehicle/Site Building



<b>TABLE 3 EMERGENCY SUPPLIES/EQUIPMENT</b>	
<b>SUPPLY ITEM</b>	<b>LOCATION ONSITE</b>
<input checked="" type="checkbox"/> Spill Kit	In Vehicle/Site Building
<input checked="" type="checkbox"/> Hand Sanitizer	In Vehicle/Site Building
<input checked="" type="checkbox"/> Caution Tape, Cones	In Vehicle/Site Building
<input type="checkbox"/> Air Horn	In Vehicle
<input checked="" type="checkbox"/> Flashlight	In Vehicle/Site Building
<input checked="" type="checkbox"/> Water or Other Fluid	In Vehicle/Site Building
<input checked="" type="checkbox"/> Wash and Dry Towels	In Vehicle
<input checked="" type="checkbox"/> Sunscreen	In Vehicle/Site Building
<input checked="" type="checkbox"/> Insect Repellent	In Vehicle
<input checked="" type="checkbox"/> Cooling Aids (cooling towels, vests, etc.)	In Vehicle/Site Building
<input type="checkbox"/> Other	

### **3.0 SCOPE OF WORK**

#### **3.1 Site’s Background**

The Corning Fire Department Site is located in the northeastern portion of the City of Corning. It is bounded by NYS flood control land and the Chemung River to the south, Centerway and the Corning Family YMCA property to the west, Corning Boulevard and the Guthrie Medical Center property to the north, and Memorial Stadium to the east.

The Corning Fire Department Site consists of the fire station building, asphalt paved driveway and parking lot, and lawn areas. The City of Corning Municipal Water Supply Well #9 and an associated building is located on the southeast portion of this site. The site is comprised of tax parcel 318.05-02-001.200 (frontage along Corning Boulevard and Center Way) and the western portion of tax parcel 318.05-01-068.000 (the eastern portion of this tax parcel contains Memorial Stadium and is not included as part of this Site). A portion of the frontage parcel is included in Study Area Project 851046.

The property was formerly owned by Corning Glass Works prior to 1945 when it was transferred to the City of Corning. Anecdotal reporting by multiple residents in the area indicates that a large pile of glass waste was present in the location of the existing fire station building prior to the flood of 1972. Much of the surrounding area is a former low area along the river that has been extensively filled from the 1930s, or earlier, to the early 1960s. A 1920 property deed contains a condition that allowed Corning Glass Works to maintain ash dumps within the limits of Study Area project 851046, which includes a portion of the frontage parcel of this Site.



**Figure 1** shows the site’s location map.

### 3.2 Project’s Description

The Site is currently utilized as a fire department for the City of Corning. Based on investigations conducted to date, on-site soils and groundwater are contaminated with metals and semi-volatile organic compounds at levels exceeding applicable standards, criteria, and guidance. Glass manufacturing waste material, including ash, brick, and/or glass (ABG), was also observed in Site soils. This investigation will further delineate the nature and extent of contamination identified in previous investigations to assist in the design of the presumed remedy of excavating contaminated surface soils and installing a site cover.

**Figure 2** shows the areas of environmental concern(s).

Refer to the Introduction (**Section 1.0**) for the site’s information and contacts.

### 3.3 Site Type

<b>TABLE 4</b> <b>SITE TYPE</b> (Check all that may apply to the site/project.)	
<input checked="" type="checkbox"/> Active	<input type="checkbox"/> Abandoned
<input type="checkbox"/> Industrial	<input type="checkbox"/> Landfill
<input type="checkbox"/> Inactive	<input checked="" type="checkbox"/> Unsecured
<input type="checkbox"/> Well Field	<input type="checkbox"/> Water Work
<input type="checkbox"/> Residential	<input type="checkbox"/> Railroad
<input type="checkbox"/> Undeveloped	<input type="checkbox"/> Commercial
<input type="checkbox"/> Secure	<input type="checkbox"/> Service Station
<input checked="" type="checkbox"/> Other – Active Fire Department	

### 3.4 Scope of Work

#### GPS Survey

The proposed layout consists of a 100 x 100-foot grid, with one, 1-foot deep boring advanced towards the center of each grid cell. Specific sampling locations will be marked using a GPS unit to establish soil sampling coordinates prior to subsurface work. Any boring locations that were planned will be field-verified during the GPS survey to ensure that the proposed location can be accessed by a drill rig.

#### Soil Boring Installation and Surface Soil Sampling

In general, the work to be performed by HRP and/or HRP's subcontractors consists of investigative methods to evaluate the environmental condition of the Site. The fieldwork for this task includes the following subtasks:

All installed soil borings will be named in accordance with the established grid (**Figure 2**). The grid is established to provide adequate distribution and coverage across the Site area. Subsurface anomalies and utilities as well as overhead utilities may affect planned soil boring locations prior to installation. A minimum 10-foot distance will be maintained for soil borings in close proximity to marked or observed utilities. A GPS unit will be used to locate the coordinates for each installed boring.

Shallow soil borings will be installed to evaluate for the presence of ABG and SCO exceedances to support and determine the footprint of any remedial actions. Soil borings will be advanced using a hand auger to confirm the degree and extent of surface soil impacts above the Commercial SCO. Soil cores will be advanced continuously until a depth of 1-foot below grade is achieved.

Each soil core will be examined for the presence of ABG. If ABG is observed during soil boring installation, field personnel will describe and document the location, depth, and photograph the material. All soil samples will be screened for organic vapors using a photoionization detector (PID) and any evidence of contamination will be noted and/or used for selection of soil samples for laboratory analysis. All samples will be submitted to a NYSDOH ELAP certified laboratory for analysis of Target Compound List (TCL) SVOCs by EPA Method 8270 and Target Analyte List metals by EPA Methods 6010D & 6020B. Quality control samples will be collected during soil sampling to ensure precision and accuracy of results. Duplicate and matrix/matrix spike duplicates will be collected at a frequency of 1 per 20 samples. A summary of soil sample collection and analysis is provided in **Table 2**.

Up to three soil sample samples from each boring will be collected from the depths intervals summarized below and results will be compared against the Part 375 Commercial Use SCO. Soil samples will only be collected from native soils or fill that does not contain ABG. Any samples containing ABG will be considered to be contaminated in accordance with Commissioner Policy CP-51 Section G and do not require laboratory analysis. Soil boring samples will be collected from the following intervals and submitted for laboratory analysis:

- 0-2 inches (excludes sod/grass/organic)
- 2-12 inches

Upon completion, each soil boring will be backfilled with clean sand and topped with topsoil or asphalt patch. The area surrounding each soil boring will be returned to match previous existing conditions prior to soil boring installation.

#### Site Survey

The surveyor contractor will collect and incorporate all previously identified utilities and subsurface anomalies as a part of the Site survey. The corners of existing hardscapes (such as paved asphalt parking lots and sidewalks, and buildings) will be surveyed at the Site.

Check the box for the following topics that are applicable to the project being completed (**Table 5**).

<b>TABLE 5 TASKS</b>	
<input type="checkbox"/> Site Inspections (e.g., ESA)	<input checked="" type="checkbox"/> Drum Sampling
<input type="checkbox"/> Industrial Hygiene	<input type="checkbox"/> Ground Water Sampling
<input type="checkbox"/> Asbestos Survey	<input type="checkbox"/> Landfill Sampling
<input type="checkbox"/> Bridge Inspections	<input type="checkbox"/> Product Sampling
<input type="checkbox"/> Drilling/Probing	<input type="checkbox"/> Remediation Monitoring (air/water)
<input type="checkbox"/> Well Repair/Abandonment	<input type="checkbox"/> Soil Gas Sampling
<input type="checkbox"/> Stack Testing	<input type="checkbox"/> Stormwater Sampling
<input type="checkbox"/> Surface Water Sampling	<input checked="" type="checkbox"/> Surveying
<input type="checkbox"/> Wastewater Sampling/Benchmark Test	<input type="checkbox"/> Confined Space Entry
<input type="checkbox"/> Excavation	<input type="checkbox"/> Emergency Spill Response Oversight
<input type="checkbox"/> Chemical/Waste Exposure/Handling	<input checked="" type="checkbox"/> Surface Soil Sampling

Should conditions or the scope of work described herein change significantly; a HASP Addendum will be completed.

A Safety and Logistics Planning call will be held prior to conducting any intrusive activities at the site. Representatives from HRP and each subcontractor will attend the call to discuss logistical and safety challenges general to the scope of work and specific to the Site. This call is documented on the Safety and Logistics Planning Log in **Appendix A**.

Specific procedures may be needed for certain job tasks, include at the end of this HASP.

#### **4.0 ROLES AND RESPONSIBILITIES**

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The following personnel on **Table 6** are designated to perform the stated project activities and to ensure that the requirements of this HASP are met. The same person may fill more than one role, and/or serve as an alternate in the absence of the designated team member.

A complete list of HRP employee and subcontractor responsibilities (as applicable) can be found in the HRP’s H&S procedures.

**NOTE:** Any employee has the STOP WORK AUTHORITY (sometimes known as PAUSE WORK).



<b>TABLE 6 ROLES AND RESPONSIBILITIES</b>	
<b>Project Team Member</b>	<b>Responsibilities and Tasks</b>
<b>Stephanie Pascual, Consultant</b>	<p><b>HRP’s Site Safety Officer:</b> Ensuring all site work is performed in accordance with HRP’s H&amp;S Programs, as well as in accordance with local, state, and federal regulations.</p> <ul style="list-style-type: none"> <li>• Directing and implementing HRP’s HASP.</li> <li>• Reviewing the Subcontractor’s HASP and being aware of the hazards detailed therein.</li> <li>• Conduct a job orientation meeting and routine safety meetings for HRP employees and subcontractors, as applicable.</li> <li>• Provide copies of these inspections, recordkeeping/personnel logs to the engineer/contractor as required.</li> <li>• Ensuring all project personnel have been adequately trained in the recognition and avoidance of unsafe conditions.</li> <li>• Address Stop Work Orders that shall be executed upon the determination of an imminent H&amp;S concern and will notify the appropriate contacts upon issuance of this order.</li> <li>• Authorizing work to resume, upon approval from the Contractor.</li> <li>• Directing activities, as defined in the HRP’s and the Contractor’s written HASP, during emergency situations.</li> <li>• Providing personnel monitoring where applicable.</li> <li>• Ensuring that adequate personal protective equipment (PPE) and first aid supplies are available.</li> <li>• Ensure site security, to the extent practicable.</li> <li>• Ensure accident victims are promptly cared for, and the incident is investigated and properly reported.</li> <li>• Communicating with HRP’s PM, Office H&amp;S Manager (OHSM), and others when needed.</li> <li>• Report all injuries, illnesses, and other incidents to the PM.</li> </ul>
<b>John Gorman – Project Manager</b>  <b>Mark Wright, DEC Contracts Manager</b>	<p><b>HRP’s Site Supervisor/Project Manager</b></p> <ul style="list-style-type: none"> <li>• Monitor and assist the Site Safety Officer.</li> <li>• Maintain appropriate rules, regulations, and codes at the job site.</li> <li>• Provide advanced safety planning for all activities through the use of scheduling and administrative controls.</li> <li>• Obtain site-specific H&amp;S information and communicate that information with the appropriate personnel (i.e., contractors, client, etc.)</li> <li>• Report all injuries, illnesses, and other incidents to the Regional Office Manager (ROM) and Corporate H&amp;S Officer (CHSO). If ROM or CHSO cannot be reached, contact Chief Operating Officer (COO) or Human Resources.</li> <li>• Ensure all HRP personnel are trained and qualified to perform site work.</li> </ul>
<b>Site Workers (Subcontractors)</b>	<p><b>Site Workers</b></p> <ul style="list-style-type: none"> <li>• Read and work in accordance with this HASP.</li> <li>• Report all unsafe work practices to the Site Safety Officer.</li> <li>• Report all incidents, including near-misses to the Site Safety Officer.</li> <li>• Work in a safe manner.</li> <li>• Provide designated Competent Person</li> </ul>

\*A list of site workers will be maintained in the Personnel Log (**Appendix B**).



## 5.0 **PROJECT HAZARDS AND CONTROL MEASURES**

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### 5.1 **Identifying Hazards**

The Site Supervisor/PM shall complete the Job Safety Analysis (JSA) in **Appendix C** prior to the start of the project. The JSA identifies the steps of the task to be performed with its hazards, unsafe conditions, and materials that are known or suspected to be onsite. The hazards that are listed in the JSA must be ranked using HIGH (H), MEDIUM (M), or LOW (L) based on current site knowledge. Use the results of this analysis to verify that controls in the JSA are adequate to mitigate task hazards.

Details of specific hazards associated with individual tasks will be discussed in the Toolbox Talk (formerly known as the Daily Job Brief Record (**Appendix D**)). **The Toolbox Talk is the key to the entire operation.** We are writing this HASP prior to going onsite and therefore cannot anticipate all of the site-specific hazards. The PM must do a thorough job on the Toolbox Talk, so we remain compliant. The Daily Toolbox Talk records will be reviewed by the PM at the conclusion of the field work.

### 5.2 **Task Policy Reminders**

#### Confined Spaces

Only properly trained HRP personnel are authorized to enter confined spaces. Confined space entry may be performed by subcontractors who have the proper training and experience to conduct this work.

#### Emergency Spill Response Oversight

HRP personnel are not permitted to participate in handling the emergency, only the oversight of such activities.

#### Excavations

It is HRP's policy to ensure that for excavation projects the subcontracted environmental contractor will provide a competent person to perform daily and as needed inspections of excavation sites. This policy will be conveyed through the subcontract agreement with the environmental contractor. At a minimum HRP will provide our employees involved with construction projects with awareness level training regarding excavation hazards and notify the subcontracted firm if any obvious excavation safety hazard exists during the course of onsite activities.

#### Drilling

HRP employees will not perform drilling, rather HRP will use a competent subcontractor to perform drilling services. At a minimum, HRP will provide our employees involved with this type of project with awareness level training regarding drilling, the hazards of the equipment and distance of the drilling.

#### Chemical Hazards

Hazardous materials and/or chemicals are listed on **Table 9**. Contaminants that are known or suspected onsite are listed at the end of this document on **Table 13** includes Chemical name, odor threshold OSHA permissible exposure limit (PEL), the American Conference of Governmental

Industrial Hygienists (ACGIH) threshold limit value (TLV), OSHA short-term exposure limit (STEL), Immediately Dangerous to Life or Health (IDLH) Concentrations, routes of exposure, and symptoms of acute exposure. Chemicals likely to be encountered during site work are highlighted.

Physical Hazards

Physical hazards known or suspected to be onsite are listed on **Table 8**. **Table 8** includes description of potential hazards, methods to identify/minimize them, potential for occurrence and potentially affected tasks.

Air Monitoring

In order to determine potential health hazards and to determine the level of personal protection needed during drilling, excavation, and sampling activities within the areas of concern, a photoionization detector (PID) will be periodically operated to monitor air quality for the purpose of ensuring minimal exposure to volatile organic compounds.

Background ambient air levels will be established outside the exclusion zone prior to commencement of site work. Ambient air sampling will occur in the breathing zone of site workers for comparison to the action levels (described below). Additionally, air sampling will be conducted in the vicinity of any intrusive exploration (i.e., near excavations, trenches, etc.) to determine if any contaminants are present. See **Table 7** for action levels to be used.

<b>TABLE 7 ACTION LEVELS</b> Use the following Action Levels		
INSTRUMENT	ACTION LEVEL	LEVEL OF PROTECTION OR ACTION REQUIRED
PID	<5 ppm	<ul style="list-style-type: none"> <li>• Continue to monitor</li> <li>• Recheck levels after fifteen minutes</li> <li>• If levels are sustained, reassess</li> <li>• Use engineering controls to lower breathing zone vapors</li> <li>• Level C protection (at the H&amp;S Officer's (HSO) discretion)</li> </ul>
PID	>5 ppm	<ul style="list-style-type: none"> <li>• Stop work and evacuate exclusion zone</li> <li>• Recheck levels after fifteen mins</li> <li>• Use engineering controls to lower breathing zone vapors</li> <li>• If levels are sustained, contact CHSO and/or OHSM, and re-evaluate HASP</li> </ul>
<p><b>NOTE:</b> When the background reading is &gt;1 ppm, assess the area and equipment, but continue PID monitoring and wear Level D protection</p> <p>ppm = parts per million</p>		

When an action level is equaled or exceeded, the work area should be evacuated, and the area re-tested with the sampling device. If the appropriate action level continues to be exceeded, the Site Safety Officer will have to assess the use of engineering controls to lower vapor levels or availability of required increased personal protection equipment before authorizing re-entry.



### **5.3 Community Air Monitoring (required by DER 10)**

#### **AWARENESS FOR NEW YORK ONLY:**

To ensure the protection of receptors surrounding the site HRP has developed and will implement a Community Air Monitoring Program (CAMP), which requires real time monitoring of volatile organics and dust during the remedial investigation. The CAMP will be implemented during all intrusive activities.

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

If the downwind PM-10 particulate level is 100 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) greater than the background (upwind perimeter) for the fifteen-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work may continue with dust suppression techniques provided that no visible dust is migrating from the work area.

If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150  $\mu\text{g}/\text{m}^3$  above the upwind level, work will 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  $\mu\text{g}/\text{m}^3$  of the upwind level and in preventing visible dust migration.

**TABLE 8**

**HAZARDS KNOWN OR SUSPECTED ONSITE**

\*Check all that may potentially apply to the tasks being performed. Chemical Hazards are included on **Table 8**.

PHYSICAL HAZARDS	SAFETY HAZARDS	BIOLOGICAL HAZARDS	ERGONOMIC HAZARDS	PSYCHOLOGICAL HAZARDS
<input type="checkbox"/> Structure Unsafe <input type="checkbox"/> Uneven Floors/Surfaces <input type="checkbox"/> Ceiling Unsafe <input type="checkbox"/> Falling Objects/Loads <input type="checkbox"/> Flying Debris <input checked="" type="checkbox"/> Slippery Floor/Ground <input type="checkbox"/> Obstructed Walking Areas <input type="checkbox"/> Misuse of Machinery <input type="checkbox"/> Excessive/Loud Noise <input type="checkbox"/> Poor Lighting <input type="checkbox"/> Fire <input type="checkbox"/> Radiation <input type="checkbox"/> Magnetic Fields <input type="checkbox"/> Pressure Extremes <input checked="" type="checkbox"/> Extreme Heat/Cold <input checked="" type="checkbox"/> Inclement Weather <input type="checkbox"/> Confined Space Entry <input type="checkbox"/> Atmosphere <input type="checkbox"/> Drowning <input checked="" type="checkbox"/> Flooding <input type="checkbox"/> Poor Visibility <input type="checkbox"/> Other (Specify)	<input checked="" type="checkbox"/> Slipping/Tripping/Falling <input type="checkbox"/> Improper Machine Guard <input type="checkbox"/> Equipment Malfunction <input checked="" type="checkbox"/> Struck By <input type="checkbox"/> Homeless Encampments <input type="checkbox"/> Falling Into <input type="checkbox"/> Cave In/Collapses <input checked="" type="checkbox"/> Underground Utilities <input type="checkbox"/> Excavation Spoils <input type="checkbox"/> Superimposed Loads <input type="checkbox"/> Mobile Equipment/Machinery <input type="checkbox"/> Electrical <input type="checkbox"/> Poor Housekeeping <input type="checkbox"/> Suspicious Activity/Person <input type="checkbox"/> Security <input type="checkbox"/> Traffic <input type="checkbox"/> Other (Specify)	<input type="checkbox"/> Bacteria <input type="checkbox"/> Viruses <input checked="" type="checkbox"/> Insects <input checked="" type="checkbox"/> Plants <input checked="" type="checkbox"/> Animals/Birds <input type="checkbox"/> Other (Specify)	<input checked="" type="checkbox"/> Repetitive Movements <input type="checkbox"/> Improper Work Setup <input type="checkbox"/> Poor Equipment Design <input type="checkbox"/> Poor Workstation Design <input checked="" type="checkbox"/> Postural/Workflow <input checked="" type="checkbox"/> Manual Handling <input type="checkbox"/> Other (Specify)	<input type="checkbox"/> Workload <input type="checkbox"/> New Worker <input type="checkbox"/> Lone Worker <input type="checkbox"/> Stress <input type="checkbox"/> Harassment <input type="checkbox"/> Communication Issue <input type="checkbox"/> Other (Specify)

**CONTROL MEASURES AND WORK PRACTICES**

**NOTE:** Hand signals are encouraged to communicate during a job where hearing is limited, but vision is not. These hand signals should be listed within the Toolbox Talk and JSA.

**REQUIRED PERMITS**

- None     
  Excavation     
  Encroachment     
  Confined Space Entry     
  Hot Tap     
  Street Open/Closing     
  Hot Work  
 Energized Equipment     
 Other (Specify)

**\*These permits may not be issued by HRP employees. You may reference them as needed.**



**TABLE 9**

**HAZARDOUS MATERIAL SUMMARY**

Check all that may apply onsite. Attach Safety Data Sheets (SDS) in **Appendix F** for each chemical that will be brought to the site.

<b>HAZARDOUS MATERIAL LIST</b>		<b>KNOWN CHEMICALS</b> List the actual chemical name that HRP employees are exposed to.
<input type="checkbox"/> Acids <input type="checkbox"/> Pickling Liquors <input type="checkbox"/> Caustics <input checked="" type="checkbox"/> Pesticides <input type="checkbox"/> Dyes/Inks <input type="checkbox"/> Cyanides <input checked="" type="checkbox"/> Phenols <input type="checkbox"/> Halogens <input type="checkbox"/> Dioxins <input checked="" type="checkbox"/> Fly Ash <input type="checkbox"/> Asbestos <input type="checkbox"/> Millings/Mine Tailings <input type="checkbox"/> Ferrous Smelter <input type="checkbox"/> Non-Ferrous Smelter <input checked="" type="checkbox"/> Metals <input type="checkbox"/> Chlorinated Solvents <input type="checkbox"/> Hydrocarbons <input type="checkbox"/> Alcohols <input type="checkbox"/> Ketones <input type="checkbox"/> Esters <input type="checkbox"/> Ethers <input type="checkbox"/> Oily Wastes <input type="checkbox"/> Gasoline	<input type="checkbox"/> Diesel Fuel/Oil <input type="checkbox"/> Lubricants <input checked="" type="checkbox"/> PCBs <input checked="" type="checkbox"/> PAHs <input type="checkbox"/> Kerosene <input type="checkbox"/> Propane <input checked="" type="checkbox"/> PFAS <input type="checkbox"/> Mold <input type="checkbox"/> Distillation Bottoms <input type="checkbox"/> Fecal Matter/Animal Waste <input type="checkbox"/> Laboratory Waste <input type="checkbox"/> Pharmaceuticals <input type="checkbox"/> Hospital Waste <input type="checkbox"/> Radiological Waste <input type="checkbox"/> Municipal Waste <input checked="" type="checkbox"/> Construction Debris <input type="checkbox"/> Aluminum <input type="checkbox"/> Paint <input type="checkbox"/> Pigments <input type="checkbox"/> Metal Sludges <input type="checkbox"/> POTW Sludges <input checked="" type="checkbox"/> Glass	Arsenic, barium, boron, cadmium, chromium, lead, mercury
		Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene
		Chrysene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene
		Trichloroethylene, 1,4-dioxane, 1,4-dichlorobenzene
		PFOA/PFAS
		PCBs
		P,P'-DDD, P,P'-DDE, P,P'-DDT
		<b>CONTROL MEASURES:</b>
		Avoid skin contact with surface soil/sediment. Wear nitrile gloves when sampling/handling soils.



## **6.0 SUSPECTED CONTAMINATION AND DECONTAMINATION**

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### **6.1 Suspected Contamination**

Prior to commencement of work in the area of suspected contamination, protective zones specific for each phase of the HASP will be established by the Site Safety Officer, if necessary, prior to the start of field work. These zones will be defined during the Toolbox Talk.

The purpose of the protective zones is to prevent potential cross-contamination of adjacent areas as well as to protect project personnel from exposure to contaminated areas.

### **6.2 Protective Zones**

Protective zones shall be delineated as follows:

- **Exclusion Zone:**

This is the contaminated area in which intrusive activities are performed. The area of environmental concern (AOEC) is located within this area. A single access point for entrance and exit should be established and maintained, if possible. This zone should be delineated from the Contaminant Reduction Zone via perimeter cones or caution tape, or other applicable method. Work areas are shown on **Figure 2**. The Exclusion Zone delineation and any necessary modifications will be based onsite conditions.

- **Contaminant Reduction Zone:**

This zone is a transition zone located between the Exclusion Zone and the Support Zone and is utilized to decontaminate personnel and equipment.

- **Support Zone:**

This zone will be utilized by equipment and vehicle storage and will be kept free of contaminated material. The Site Safety Officer will determine the location of this zone. In the event of a site evacuation, see **Figure 2** and **Section 2.2** (Emergency Contacts/Planning) for the rally point. The designated rally point may be relocated by the Site Safety Officer based on project or site conditions. All site workers will be notified of any relocation prior to implementation.

**NOTE:** Protective zones are not anticipated for this project.

### **6.3 Decontamination Procedures**

All personnel and equipment leaving the exclusion zone must be properly cleaned and decontaminated. When there is evidence of chemical contamination during the site operations, all personnel will be decontaminated under the direction of the Site Safety Officer. Clean-up and/or decontamination of personnel shall consist of washing off excessively soiled PPE with a disinfectant detergent scrub and water. At the very least, all personnel should wash their hands and face before leaving the exclusion zone. After washing, all disposable clothing (Tyvek, gloves, etc.) will be removed and placed in a double lined plastic bag.

Sampling tools and any other non-disposable items will be decontaminated between sampling points, and at the direction of HRP personnel, to prevent cross-contamination of work areas or environmental samples, as applicable.

#### **6.4 Emergency Decontamination**

If immediate medical attention is required in an emergency, decontamination will be performed after the victim has been stabilized. If a worker has been exposed to an extremely toxic or corrosive material, then emergency decontamination will consist of flushing with copious amounts of water. If the victim cannot be decontaminated because it will interfere with emergency medical aid being administered, then the victim should be wrapped with plastic or other available items (i.e., an uncontaminated coverall) to reduce potential contamination of other personnel or medical equipment.

If a site worker has been overcome by heat related illness, then any protective clothing should be removed immediately. In the case of non-medical emergency evacuation, decontamination should be performed as quickly as possible, unless instant evacuation is necessary to save life or prevent injury.

#### **6.5 Personal Hygiene**

All employees will be required to wash their hands and face prior to eating, smoking, drinking, and going to the bathroom. Workers will be required to remove contaminated PPE and clothing prior to leaving the Contaminant Reduction Zone. All field personnel should avoid contact with potentially contaminated substances such as puddles, pools, mud, etcetera.

**7.0 PERSONAL PROTECTIVE EQUIPMENT**

There is different equipment that is worn to minimize exposure to hazards that can cause serious work injuries and illnesses. **Table 11** will list out the PPE that is required onsite and for the job that needs to be performed.

<b>TABLE 11 PERSONAL PROTECTIVE EQUIPMENT</b>	
Check all the PPE that may apply and give the description of PPE.	
TYPE of PPE	DESCRIPTION of PPE
<b>HEAD AND FACE:</b> <input type="checkbox"/> Not Needed <input checked="" type="checkbox"/> Safety Glasses <input type="checkbox"/> Safety Goggles <input type="checkbox"/> Face Shield <input checked="" type="checkbox"/> Hard Hat <input type="checkbox"/> Hearing <input type="checkbox"/> Other	
<b>FEET:</b> <input type="checkbox"/> Not Needed <input checked="" type="checkbox"/> Steel Toes <input type="checkbox"/> Overboots <input type="checkbox"/> Disposable Booties <input type="checkbox"/> Rubber Boots <input type="checkbox"/> Electrostatic Discharge (ESD) <input type="checkbox"/> Chemical Resistant <input type="checkbox"/> Other	
<b>PROTECTIVE CLOTHING:</b> <input type="checkbox"/> Not Needed <input type="checkbox"/> Encapsulated Suit <input type="checkbox"/> Splash Suit <input type="checkbox"/> Apron <input checked="" type="checkbox"/> High Visibility Vest <input type="checkbox"/> Coveralls <input type="checkbox"/> Other	
<b>HANDS:</b> <input type="checkbox"/> Not Needed <input type="checkbox"/> Cut Resistant <input type="checkbox"/> Chemical Resistant <input type="checkbox"/> Under Gloves <input type="checkbox"/> Over Gloves <input type="checkbox"/> Heat Resistant <input checked="" type="checkbox"/> Other	Nitrile Gloves
<b>RESPIRATOR:</b> <input checked="" type="checkbox"/> Not Needed <input type="checkbox"/> Supplied Air <input type="checkbox"/> APR	<input type="checkbox"/> Filtering Face Piece (N95/Dust Mask) <input type="checkbox"/> Half Face <input type="checkbox"/> Full Face

## 7.1 Levels of Personal Protective Equipment

As identified in **Section 5.0**, the overall H&S risk associated with chemical hazards for HRP, and associated contractors is considered significant. This is primarily due to the moderate concentrations of chemical contaminants expected based on minimal contact personnel will have with any potentially contaminated media. Therefore, the minimal level of protection for HRP personnel during the conduct of all the environmental work performed at the site will be Level D PPE. The following constitute Level D PPE; it may be used as appropriate:

- Coveralls
- Gloves, as applicable
- Chemical-resistant steel toe and shank shoes
- Boots, outer, chemical-resistant (disposable), as applicable
- Safety glasses or chemical splash goggles
- Hard hat, as applicable
- Escape mask, as applicable
- Face shield, as applicable

If site conditions warrant, an upgrade to Level C PPE may be required. If required, the Contractor will make Level C PPE readily available. The following constitute Level C PPE; it may be used as appropriate:

- Full-face or half-mask, air purifying respirators (National Institute for Occupational Safety and Health (NIOSH) approved)
- Hooded chemical-resistant clothing (e.g., Tyvek, overalls, two-piece chemical-splash suit, disposable chemical-resistant overalls)
- Coveralls, as applicable
- Gloves, outer, chemical-resistant
- Gloves, inner, chemical-resistant
- Boots (outer), chemical-resistant steel toe and shank, as applicable
- Boot-covers, outer, chemical-resistant (disposable), as applicable
- Hard hat, as applicable
- Escape mask, as applicable
- Face shield, as applicable

**NOTE:** Safety vest may or may not be required depending onsite conditions/location and will be addressed at the time of task assignment by the Site Safety Officer.

If the Toolbox Talk determines that protection beyond Level D is required, HRP will re-evaluate the HASP as well as the site conditions, and will revise the HASP as required.

**NOTE:** The level of protection identified here does not include the necessary equipment for entering confined spaces.

The following table provides a general description of potential field activity tasks to be performed and associated (recommended) PPE. The use of this PPE may or may not vary depending onsite conditions and will be addressed at the time of task assignment by the Site Safety Officer.

<b>TABLE 12 POTENTIAL FIELD ACTIVITY TASKS AND ASSOCIATED PPE</b>		
<b>Task Description</b>	<b>Invasive (Y/N)</b>	<b>Protection Level</b>
<u>Site Mobilization</u> - Surveying, fence and barrier installation, hay bale installation, decon and work zone set up, soil staging areas preparation	N	Level D
<u>Soil and Water Sampling</u> - Drilling, sampling, soil moving as needed.	Y	Modified Level D or Level C – Respirator as needed based on monitoring. Eye protection required during collection of any liquid sample
<u>Soil Excavation, Staging and Load-Out</u>	Y	Modified Level D – or Upgrade to Level C dependent on monitoring
<u>Decontamination</u> - Truck dry sweeping, decon pressure wash of equipment, PPE change out	Y	Modified Level D – or Upgrade to Level C dependent on monitoring
<u>Waste Management</u> - Soil load-out for offsite disposal, water removal for disposal, PPE disposal	Y	Modified Level D – or Upgrade to Level C dependent on monitoring
<u>Site Control (Exclusion, Decontamination, Support Zones)</u>	N	Modified Level D – or Upgrade to Level C dependent on monitoring
<u>Communications</u> - Use of hand signals, backup alarms, and voice	N	NA
<u>Site Restoration</u>	Y	Level D

## **8.0 TRAINING/MEDICAL SURVEILLANCE**

### **8.1 Training Requirements**

All HRP and HRP subcontractor personnel who enter the work zone and/or Exclusion Zone must have successfully completed the 40-hour or 24-hour training requirement outlined in 29 CFR 1910.120(e). If the 40-hour or 24-hour training of any person occurred more than twelve months prior to commencement of work, then that person must have attended an 8-hour refresher course within the twelve months prior to commencement of work.

If respirators are in use in the Exclusion Zone, then all personnel must have undergone respirator training and a fit test within the last twelve months.

Training certificates and records for HRP employee(s) are maintained by HRP. All other contractors will be required to supply written proof of training before being allowed into the Exclusion Zone.



## 8.2 Pre-Entry Briefing

Prior to commencement of work in an area of suspected contamination, HRP's HSO will conduct a pre-entry briefing with onsite contractors, which will include the following:

- Name of the Site Safety Officer and person responsible for the visitor log
- Description of the parcel as well as location of emergency telephones and the location/boundaries of the Exclusion Zone, Contamination Reduction Zone, and Support Zone, if established
- Review of hospital locations and directions
- Review of tasks to be conducted within the parcel by the site workers
- Review of the Emergency Action Plan and rally point, including the nearest emergency communications and telephone numbers
- The nature, level, and degree of anticipated hazards (physical and chemical) involved in the site work
- Required PPE
- Decontamination procedures

The Site Safety Officer should also, at this time, ensure that all onsite HRP and HRP subcontractor personnel have read the HASP and signed the Field Team Acknowledgement (**Section 12.0**). If additional information on the site becomes available, the Site Safety Officer will call additional briefings, as necessary.

## 8.3 Toolbox Talk (Daily Job Brief)

The HRP Site Safety Officer will conduct a safety overview meeting at the beginning of each workday on the site. The meeting will be given in addition to any safety meetings that the subcontractor conducts. A summary of the meeting topics signed by the personnel attending the meeting is included in **Appendix D**.

## 8.4 Medical Surveillance

All HRP and HRP subcontractor personnel entering the Exclusion Zone must have had a physical within the twelve months prior to commencement of site work. A physician's written opinion regarding fitness for work for each employee including work limitations, if any, is on file at HRP, as applicable. A written opinion for all other site personnel must be supplied prior to commencement of site work to the HRP Site Safety Officer. Any work limitations for site personnel, or relevant medical information (i.e., allergic reactions to medication) should be included in this Plan.

## 9.0 AUTHORIZATION

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Personnel authorized to enter the Exclusion Zone include the personnel listed from **Table 6** of this plan. Persons not listed on **Table 6** may enter the Exclusion Zone only if the appropriate training and medical fitness certifications have been supplied to either the HRP PM or OHSM and the Site

Safety Officer or his/her designee onsite has approved site entry. All personnel entering or leaving the Exclusion Zone must sign in and sign out with the recordkeeper.

**10.0 RECORDKEEPING**

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By the completion of the Project this Site-Specific HASP document, and all associated records (Toolbox Talks, JSA, Monitoring data, etc.) must be provided to the appropriate personnel at the office that implemented the Project. The appropriate personnel will then electronically store these records into the project folder. It is expected that some scanning will be necessary.

**11.0 SITE-SPECIFIC HEALTH AND SAFETY PLAN APPROVAL**

---

This plan meets the minimum requirements of 29 CFR 1910.120 and 29 CFR 1929.65 and has been written for specified site conditions, dates, and personnel, and must be amended if conditions change. By their signature, the undersigned certify that this HASP is approved and will be utilized during activities at the project.



10/20/2025

---

John Gorman  
Site Safety Officer / Project Manager

---

Date



10/14/2025

---

Bryan Sherman  
Office Health and Safety Manager

---

Date

**Subcontractor:**

I have been provided a copy of this HASP for review.

---

[Name]

---

Date

Representing \_\_\_\_\_

The Designated Competent person representing [subcontractor] at the site will be:

---



Any alternate Competent Person will be noted in the Toolbox Talk (**Appendix D**).

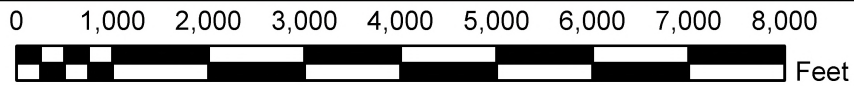
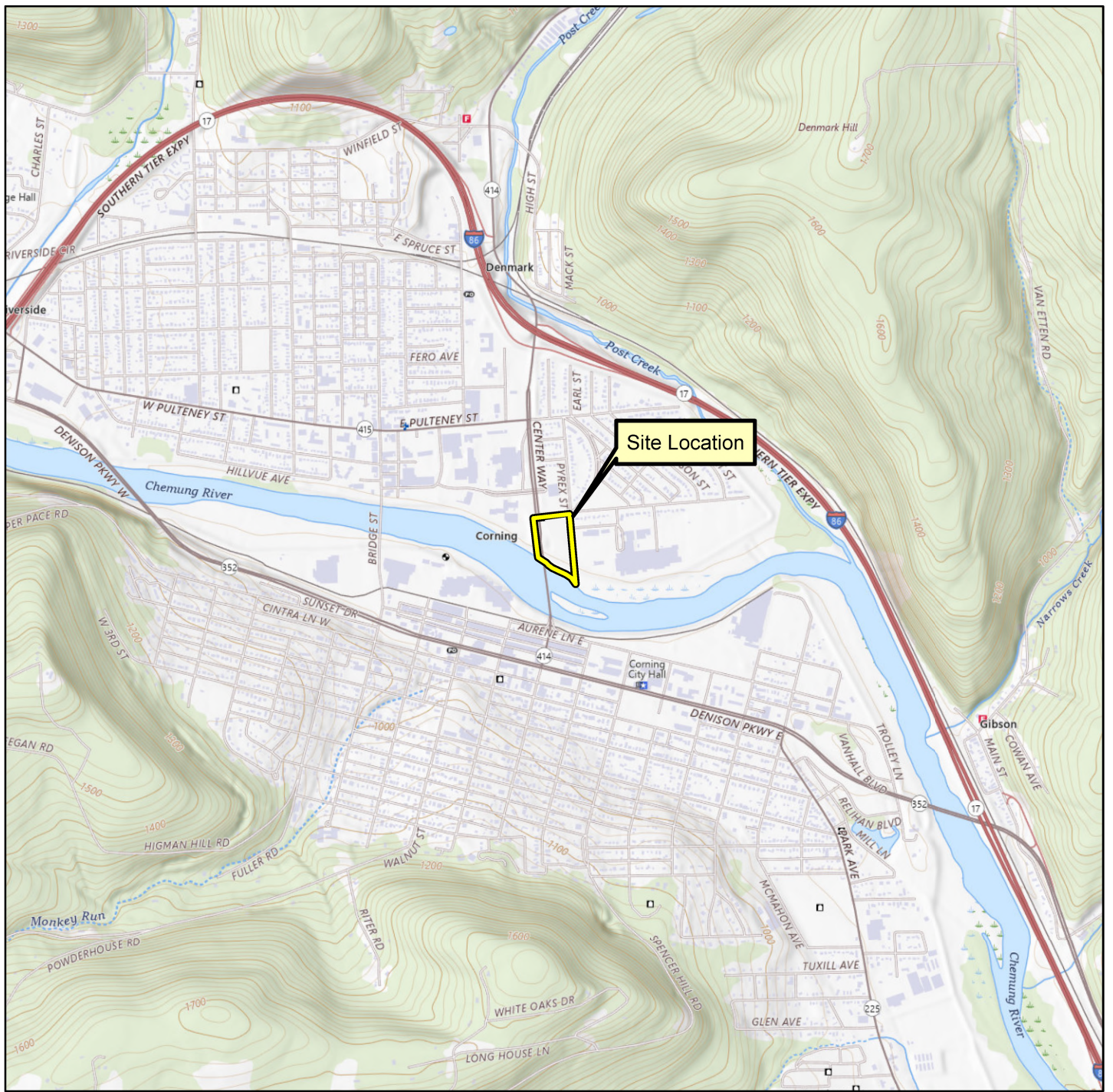
<b>ADDITIONAL APPROVALS (or Re-Approvals)</b>	
<b>Name:</b>	<b>Date:</b>



# FIGURES

# Figure 1

## Site Location Map



**Figure 1**  
**Site Location**  
**City of Corning**  
**Fire Department**  
**Site ID 851050**  
**2 Corning Boulevard,**  
**Corning, New York, 14830**

USGS Quadrangle Information  
Quad ID: 42077-B1  
Name: Corning, New York  
Date Rev: 2016  
Date Pub: 2019



ONE FAIRCHILD SQUARE  
SUITE 110  
CLIFTON PARK, NY 12065  
(518) 877-7101  
HRPASSOCIATES.COM

# Figure 2

## Site Plan with Areas of Environmental Concern

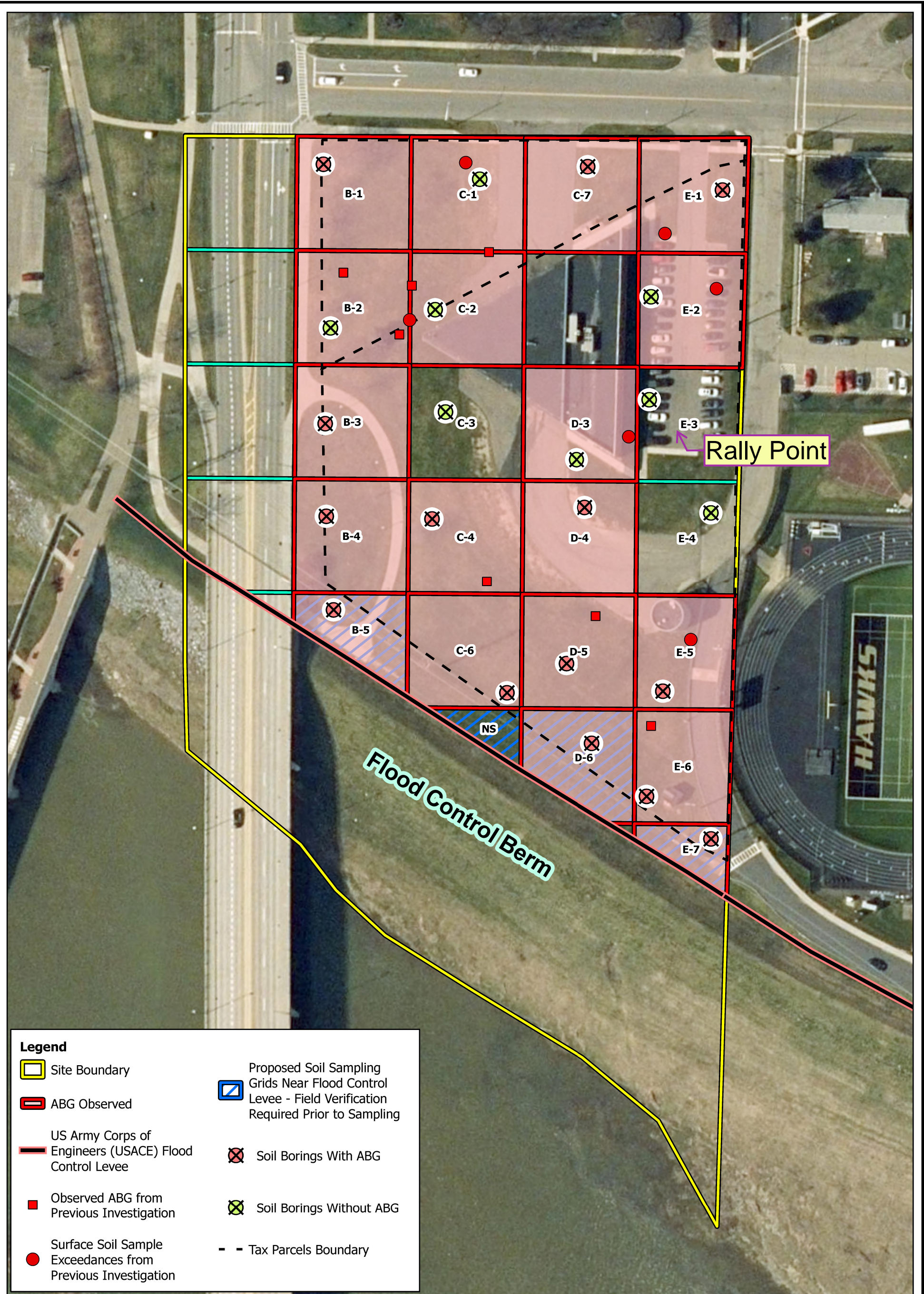


Figure No.  
2

**Sampling Grids Selected for Excavation**  
 City of Corning  
 Fire Department  
 Site ID 851050  
 2 Corning Boulevard,  
 Corning, New York, 14830

Issue Date:  
02/06/2026  
 Project No:  
DEC1056.P3  
 Sheet Size:  
11x17

Designed By:  
CMS  
 Drawn By:  
AJN  
 Reviewed By:  
JG

Revisions	
No.	Date

North ↑

0 40 80 Feet

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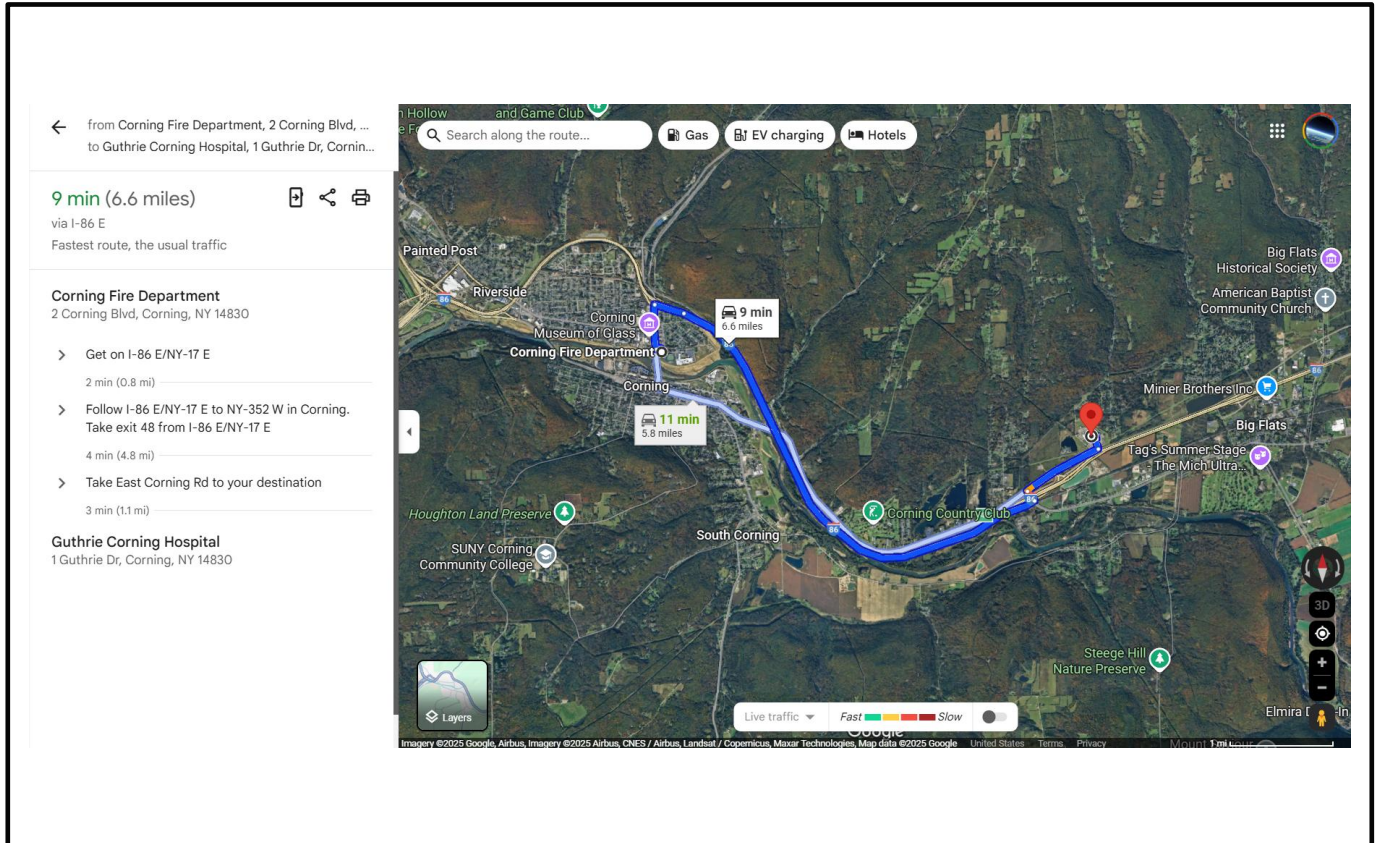
# Figure 3

## Route and Map to Nearest Hospital

## Directions to Guthrie Corning Hospital

**Starting Address:** 2 Corning Boulevard, Corning, NY  
**Ending Address:** 1 Guthrie Drive, Corning, NY

**Total Estimated Time:** 9 minutes  
**Total Estimated Distance:** 6.6 miles



# TABLES

**TABLE 13**  
**CONTAMINANTS OF CHEMICALS KNOWN OR SUSPECTED ONSITE**  
 \*HIGHLIGHT THOSE THAT APPLY TO THE TASK BEING PERFORMED.

CONTAMINANT	ODOR THRESHOLD	OSHA PEL <sup>1</sup>	TLV (ACGIH)	OSHA CEILING <sup>2</sup> /STEL	IDLH CONC.	ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE <sup>3</sup>
1,1,1 Trichloroethane	44 ppm	350 ppm	350 ppm	---	700 ppm	Inh, Ing, Con	Head, Lass, CNS, Derm
1,1,2-Trichloroethane	---	10 ppm	10 ppm	----	[100 ppm]	Inh, Ing, Abs, Con	Eyes, Nose Irrit, Resp Irrit, CNS, Liver, Kidney Damage, Derm, [Carc]
1,2,4 Trimethylbenzene 1,3,5 Trimethylbenzene		25 mg/m <sup>3</sup>	25 ppm	25 mg/m <sup>3</sup>	ND	Inh, Ing, Con	Irrit Eyes, Skin, Nose, Throat, Resp Sys, Bron, Hyprochronic Anemia, Head, Drow, Ftg, Dizz, Nau, Inco, Vomit, Conf, Chemical Pneu (aspir lig)
1,1' Biphenyl	0.0062 mg/m <sup>3</sup>	0.2 ppm	0.2 ppm	---	100 mg/m <sup>3</sup>	Inh	
1,1-Dichloroethane	120 ppm	100 ppm	100 ppm	---	3,000 ppm	Inh, Ing, Con	CNS Depres, Skin Irrit, Liver, Lung, and Kidney Damage
1,1-Dichloroethylene***	500 ppm	---	5 ppm	---	---	Inh, Con	CNS depress, Resp, [Carc]
1,2-Dichlorobenzene	50 ppm	50 ppm	25 ppm		200 ppm	Inh, Ing, Abs, Con	Irrit, Resp
1,2-Dichloroethylene	26-87 ppm	200 ppm	200 ppm	---	1,000 ppm	Inh, Ing, Con	Vomit, Irrit Eyes, Resp Sys; CNS Depres
1,2-Dichloropropane	130-190 ppm	75 ppm	75 ppm	---	[400 ppm]	Inh, Con, Ing	Eye irritation, Drow, light-headedness; irritated skin, [Carc]
1,3-Dichlorobenzene	---	----	---	----	---	----	----
1,4-Dichlorobenzene	20 ppm	75 ppm	10 ppm	----	[150 ppm]	Inh, Ing	[Carc], Eye Irrit, swelling around eye, headache, nausea, vomiting
1-Methylnaphthalene	0.02 ppm	---	---	---	---	---	---
2,4-Dichlorophenol	1.4007 mg/m <sup>3</sup>	---	---	---	---	---	---
2,4-Dimethylphenol	0.001 mg/m <sup>3</sup>	---	---	---	---	---	---
2-Methylnaphthalene	0.01 ppm	---	---	---	---	---	---
2-Methylphenol (o-cresol) [skin]	1.4 mg/L	5 ppm	5 ppm	---	250 ppm	Inh, Abs, Ing, Con	Confusion, depression, Resp Fail; difficulty breathing, irregular rapid respiration, weak pulse; skin, eye burns; dermatitis

**TABLE 13**  
**CONTAMINANTS OF CHEMICALS KNOWN OR SUSPECTED ONSITE**  
 \*HIGHLIGHT THOSE THAT APPLY TO THE TASK BEING PERFORMED.

CONTAMINANT	ODOR THRESHOLD	OSHA PEL <sup>1</sup>	TLV (ACGIH)	OSHA CEILING <sup>2</sup> /STEL	IDLH CONC.	ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE <sup>3</sup>
3, 3'-Dichlorobenzidine	---	None	---	---	---	Inh, Abs, Ing, Con	Sens, Derm, Head, Dizz, Burns, GI Upset, [Carc]
4-Isopropyltoluene	---	---	---	---	---	Con, Inh, Ing	Defat, Eryt
Acenephtrene	0.5048 mg/m <sup>3</sup>	---	---	---	---	---	---
Acenaphthylene	---	---	---	---	---	---	---
Acetone	47.5 mg/m <sup>3</sup>	1,000 ppm	500 ppm		2,500 ppm	Ing, Inh, Con	Head, Dizz; Irrit Eyes, Nose, Throat; Derm, CNS, Depress, Derm
Acetonitrile	70 mg/m <sup>3</sup>	40 ppm	20 ppm	---	500 ppm	Inh, Ing, Abs, Con	Asphy; Nau, Vomit; Chest Pain; Weak, Stupor, Convuls; Eye Irrit
Aldrin	---	0.25 mg/m <sup>3</sup>	0.25 mg/m <sup>3</sup>	---	25 mg/m <sup>3</sup>	Inh, Abs, Ing, Con	Head, Dizz, Nau, Vomit, Mal, Myo, [Carc]
Anthracene (Coal Tar Pitch)	---	0.2 mg/m <sup>3</sup>			[80 mg/m <sup>3</sup> ]	Inh, Con	Derm, bron, [carc]
Antifreeze		50 ppm	100 mg/m <sup>3</sup> (aerosol)	---	ND	Inh, Ing, Con	Irrit Eyes, Skin, Nose, Throat, Nau, Vomit, Abdom Pain, Lass, Dizz, Stup, Conv, CNS, Depres, Skin Sen
Arsenic	----	0.010 mg/m <sup>3</sup>	0.01 mg/m <sup>3</sup>	----	[5 mg/m <sup>3</sup> ]	Abs, Inh, Con, Ing	Derm; GI; Resp Irrit; ulceration of nasal septum; Resp, Irrit, Hyper Pig of Skin, [Carc]
Barium (elemental)	---	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>		50 mg/m <sup>3</sup> (barium components)	Inh, Ing, Con	Resp. Irrit, GI, Muscle Spasm, Eye Irrit, Slow Pulse; skin burns
Benzene*	4.7 ppm	1 ppm	0.5 ppm	5 ppm	[500 ppm]	Inh, Ing, Abs, Con	Irrit Eyes, Nose, Throat; Head, Nau, Derm, Ftg, Anor, Lass, [Carc]
Benzo(a)anthracene (coal tar pitch)	---	0.2 mg/m <sup>3</sup>			[80 mg/m <sup>3</sup> ]	Inh, Con	[Carc], Derm, Bron
Benzo(a)pyrene (coal tar pitch)	---	0.2 mg/m <sup>3</sup>	---		[80 mg/m <sup>3</sup> ]	Inh, Con	[Carc], Derm, Bron

**TABLE 13**  
**CONTAMINANTS OF CHEMICALS KNOWN OR SUSPECTED ONSITE**  
 \*HIGHLIGHT THOSE THAT APPLY TO THE TASK BEING PERFORMED.

CONTAMINANT	ODOR THRESHOLD	OSHA PEL <sup>1</sup>	TLV (ACGIH)	OSHA CEILING <sup>2</sup> /STEL	IDLH CONC.	ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE <sup>3</sup>
Benzo(b)fluoranthene (coal tar pitch)	---	0.2 mg/m <sup>3</sup>	---		[80 mg/m <sup>3</sup> ]	Inh, Con	[Carc], Derm, Bron
Benzo(g,h,i)perylene (coal tar pitch)	---	0.2 mg/m <sup>3</sup>			[80 mg/m <sup>3</sup> ]	Inh, Con	[Carc], Derm, Bron
Benzo(k)fluoranthene (coal tar pitch)	---	0.2 mg/m <sup>3</sup>			[80 mg/m <sup>3</sup> ]	Inh, Con	[Carc], Derm, Bron
Bis (2-ethylhexyl) Phthalate**	N/A	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	[5,000 mg/m <sup>3</sup> ]	Inh, Ing, Con	[Carc], Irrit Eyes
Cadmium (dust)	---	0.005 mg/m <sup>3</sup>	Lowest concentration feasible 0.01 mg/m <sup>3</sup>	---	[9 mg/m <sup>3</sup> ]	Inh, Ing	CNS, Resp, Irrit, Vomit, Cough, Head, Chills, Nau, Diarr, Pulm Edema, Dysp, Chest Tight, [Carc]
Carbazole	---	---	---	---	---	Inh	---
Carbon disulfide	0.1-0.2 ppm	20 ppm	1 ppm	30 ppm	500 ppm	Inh, Abs, Ing, Con	Diz, Head, Ftg, Ner, anorexia, trembling hands, loss of fine motor coord, gastritis, eye, skin burns, Derm
Carbon Tetrachloride***	21.4 ppm	10 ppm	5 ppm	25 ppm	[200 ppm]	Inh, Abs, Con, Ing	CNS Depres, Nau, Vomit, Irrit, Irrit Eyes, Skin, Drow, Dizz, [Carc]
Chlorobenzene***	0.98 mg/m <sup>3</sup>	75 ppm	10 ppm	---	1,000 ppm	Inh, Ing, Con	Irrit, Drow, CNS, Depres, Eyes, Skin, Nose, Inco.
Chloroform***	85 ppm	50 ppm	10 ppm	50 ppm	[500 ppm]	Inh, Ing, Con, Abs	Dizz, Dullness, Nau, Head, Ftg, Irrit Eyes, Skin, Conf, [Carc]
Chromium	---	1 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	---	250 mg/m <sup>3</sup>	Inh, Ing, Con	Irrit Eyes, Sens Derm
Chrysene (coal tar pitch)		0.2 mg/m <sup>3</sup>	---		[80 mg/m <sup>3</sup> ]	Inh, Con	Derm, Bron, [Carc]
Cis-1-2-Dichloroethylene	---	200 ppm	200 ppm	----	1000 ppm	Inh, Con, Ing	Irrit Eyes, Resp, CNS Depress
Copper (dusts and mists) (fumes)		1 mg/m <sup>3</sup> 0.1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup> 0.2 mg/m <sup>3</sup>	----	100 mg/m <sup>3</sup>	Inh, Ing, Con	Vomit, Derm, CNS, Irrit, Derm, Nau, Taste (metallic)

**TABLE 13**  
**CONTAMINANTS OF CHEMICALS KNOWN OR SUSPECTED ONSITE**  
 \*HIGHLIGHT THOSE THAT APPLY TO THE TASK BEING PERFORMED.

CONTAMINANT	ODOR THRESHOLD	OSHA PEL <sup>1</sup>	TLV (ACGIH)	OSHA CEILING <sup>2</sup> /STEL	IDLH CONC.	ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE <sup>3</sup>
Cyanide	0.9 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> (10 min)	5 mg/m <sup>3</sup>	25 mg/m <sup>3</sup>	Inh, Ing, Abs, Con	Weak, Head, Nau, Conf, Cyan
Dibenzo(a,h)anthracene						Inh, Ing	
Dichloromethane	540 mg/m <sup>3</sup>	25 ppm	50 ppm	125 ppm	[2,300 ppm]	Inh, Abs, Ing, Con	Irrit Eyes, Skin, lass, drow, dizz, Numb, tingl, Nau, [Carc]
Diethylphthalate**	---	None	5 mg/m <sup>3</sup>	---	N.D.	Inh, Ing, Con	Irrit Eyes, Skin, Nose, Throat, Head, Dizz, Nau, Lac, Possible Polyneur, Vestibular Dysfunc, Pain, Numb, lass, Spasms in Arms and Legs
Di-n-octylphthalate	---	---	---	---	---	Inh, Ing, Con	---
Dimethylphthalate	---	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	---	2,000 mg/m <sup>3</sup>	Inh, Ing, Con	Irrit, Resp, Abdom
Ethyl Benzene*	8.7 mg/m <sup>3</sup>	100 ppm	100 ppm	125 ppm	700 ppm	Inh, Abs, Con	Head. Irrit, Derm, Narc., Irrit Eyes, Skin; Coma
Fluoranthene		0.2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>			Ing, Inh	[Carc]
Fluorine*	6 mg/m <sup>3</sup>	0.1 ppm	1 ppm	2 ppm	25 ppm	Inh, Con	
Fuel Oil/#2	----	----	300 ppm	----		Inh, Abs, Ins, Con	Irrit Eyes, Skin, Derm, Head, Ftg, Blurred Vision, Dizz, Conf
Ideno(1,2,3-cd)pyrene		0.2 mg/m <sup>3</sup>				Ing, Inh	
Lead (inorganic forms and dust as Pb)****		0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>		100 mg/m <sup>3</sup>	Inh, Ing, Con	Irrit, Cns, Vomit, Narco, Weak, Pall, Insom, Lass, Abdom, Constip
Mercury (organic alkyl compounds) [skin]		0.01 mg/m <sup>3</sup>	0.01 mg/m <sup>3</sup>	0.03 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	Inh, Abs, Ing, Con	Irrit Eyes, Skin; Cough & Chest Pain, Bron Pneu, Tremor, Insom, Irrty, Indecision, Head, Ftg, Weak, Stomatitis, Salv, GI Dist, Anor, Low-wgt, Ataxia

**TABLE 13**  
**CONTAMINANTS OF CHEMICALS KNOWN OR SUSPECTED ONSITE**  
 \*HIGHLIGHT THOSE THAT APPLY TO THE TASK BEING PERFORMED.

CONTAMINANT	ODOR THRESHOLD	OSHA PEL <sup>1</sup>	TLV (ACGIH)	OSHA CEILING <sup>2</sup> /STEL	IDLH CONC.	ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE <sup>3</sup>
Mercury (compounds)	----	0.1 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	Inh, Abs, Ing, Con	Irrit Eyes, Skin; Cough & Chest Pain, Bron Pneu, Tremor, Insom, Irrty, Indecision, Head, Ftg, Weak, Stomatitis, Salv, GI Dist, Anor, Low-wgt, Ataxia
Methanol	13.1150 mg/m <sup>3</sup>	200 ppm	200 ppm	---	6,000 ppm	Inh, Abs, Ing, Con	Irrit Eyes, Skin, Resp, Head, drow, dizz, Nau, Vomit, vis dist, Optic, derm
Methyl Ether	----	----	---	----	---	Inh	Poison
Methyl Ethyl Ketone (2-Butanone)***	0.7375 mg/m <sup>3</sup>	200 ppm	200 ppm	300 ppm	3,000 ppm	Inh, Con, Ing	Irrit Eyes, Skin, Nose, Throat, Head, Dizz, Vomit, Derm
Methylene Chloride	540 mg/m <sup>3</sup>	25 ppm	50 ppm	125 ppm	[2,300 ppm]	Inh, Ing, Con, Abs	Ftg, Weak, dizz, drow, Numb, Tingle [carc], Irrit Eyes, Skin, Nau
Mineral Spirit	20 ppm	500 ppm	100 ppm	---	20,000 mg/m <sup>3</sup>	Inh, Ing, Con	Irrit Eyes, Nose, Throat, Dizz, Derm, Chemical pneu
Methyl tert butyl ether (MTBE)	---	---	50 ppm	---		Inh, Abs	
Naphtha	0.86 ppm	100 ppm	400 ppm	---	1,000 ppm	Inh, Con, Ing	Light Head, Drow, Irrit, Derm, Irrit Eyes, Skin, Nose
Naphthalene*	0.084 ppm	10 ppm	10 ppm	15 ppm	250 ppm	Inh, Abs, Ing, Con	Eye irritation; headache; confusion, excitement, malaise (vague feeling of ill-being); nausea, vomiting, abdominal pain; irritated bladder; profuse sweating; renal shutdown; dermatitis
Nickel (metal)	---	1 mg/m <sup>3</sup>	1.5 mg/m <sup>3</sup>	---	[10 mg/m <sup>3</sup> ]	Inh, Ing, Con	Head, Verti, Nau, Vomit, Pain, Cough, Weak, Convuls, Delirium, Pneu, [Carc]
Nitrobenzene	0.0235 mg/m <sup>3</sup>	1 ppm	1 ppm	---	200 ppm	Inh, Abs, Ing, Con	Irrit Eyes, Skin, Anoxia, Derm, Anem, Methem

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**CONTAMINANTS OF CHEMICALS KNOWN OR SUSPECTED ONSITE**  
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CONTAMINANT	ODOR THRESHOLD	OSHA PEL <sup>1</sup>	TLV (ACGIH)	OSHA CEILING <sup>2</sup> /STEL	IDLH CONC.	ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE <sup>3</sup>
n-Butylbenzene	---	---	---	---	---	---	---
n-Propylbenzene	---	---	---	---	---	---	---
PCBs 42% chlorine (Aroclor 1242)	---	1 mg/m <sup>3</sup> (skin)	1 mg/m <sup>3</sup> (skin)	---	[5 mg/m <sup>3</sup> ]	Inh, Abs, Ing, Con	Irrit Eyes, Chloracne, Liver Damage [carc]
PCBs 54% chlorine (Aroclor 1254)	---	0.5 mg/m <sup>3</sup> (skin)	0.5 mg/m <sup>3</sup> (skin)	---	[5 mg/m <sup>3</sup> ]	Inh, Abs, Ing, Con	Irrit Eyes; Chloracne, Liver Damage [carc]
PFAS	There are currently no established exposure limits for PFAS. If your project involves potential exposure to PFAS, reach out to the CHSO or OHSM about current best practices relative to exposure controls.						
Petroleum Distillates	---	500 ppm	100 ppm		[1,100 ppm]	Inh, Ing, Con	Dizz, Drow, Head, Dry Skin, Nau, Irrit Eyes, Nose, Throat, [Carc]
Phenanthrene (Coal Tar Pitch)		0.2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>		[80 mg/m <sup>3</sup> ]	Inh, Con	Derm, bron, (carc)
Phenol**	0.1786 mg/m <sup>3</sup>	5 ppm	5 ppm	---	250 ppm	Inh, Abs, Ing, Con	Irrit Eyes, Nose, Throat, Anor, Low Wgt, Weak Musc Ache, Pain, Dark Urine, Cyan, Liver, Kidney Damage, Skin, Burns, Derm, Ochronosis, Tremor, Convuls, Twitch
Pyrene		0.2 mg/m <sup>3</sup>			[80 mg/m <sup>3</sup> ]	Inh, Con	[Carc]
Sec-Butylbenzene	---	---	---	---	---	---	---
Selenium	N/A	0.2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	Unknown	1 mg/m <sup>3</sup>	Inh, Ing, Con	Irrit, Head, Fever, Chills, Skin/Eye Burns, Metallic Taste, GI, Dysp, Bron
Silver (metal and soluble compounds as Ag)	----	0.01 mg/m <sup>3</sup>	Metal = 0.1 mg/m <sup>3</sup> Soluble 0.01 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>	Inh, Ing, Con	Blue-gray Eyes, Nasal Septum, Throat, Skin; Irrit, Ulcer, Skin, GI Dist
Tetrachloroethylene (a.k.a. perchloroethylene)***	4.68 ppm	100 ppm	25 ppm	200 ppm	[150 ppm]	Inh, Ing, Con, Abs	Irrit Eyes, Skin, Nose, throat, Resp. Nau, flush face, Neck, dizz, inco, head, drow, eryth, [Carc]

**TABLE 13**  
**CONTAMINANTS OF CHEMICALS KNOWN OR SUSPECTED ONSITE**  
 \*HIGHLIGHT THOSE THAT APPLY TO THE TASK BEING PERFORMED.

CONTAMINANT	ODOR THRESHOLD	OSHA PEL <sup>1</sup>	TLV (ACGIH)	OSHA CEILING <sup>2</sup> /STEL	IDLH CONC.	ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE <sup>3</sup>
Toluene*	2.14 ppm	200 ppm	50 ppm	300 ppm	500 ppm	Inh, Abs, Ins, Con	Resp, Irrit, Ftg, Conf, Dizz, Head, Derm, Euph, Head, Dilated Pupils, Lac, Ner, Musc FTg, Insom, Pares, Derm, lass
Petroleum Distillates (naphtha)	10 ppm	100 ppm	400 ppm	---	1,000 ppm	Con, Inh, Ing	---
Trans 1,2-Dichloroethylene	0.3357 mg/m <sup>3</sup>	200 ppm	200 ppm	---	1,000 ppm	Inh, Con	Irrit, Resp, CNS depress
Trichloroethylene***	21.4 ppm	100 ppm	50 ppm	200 ppm	[1,000 ppm]	Inh, Con, Abs, Ing	Head, Vert, Nau, Vomit, Derm, Vis Dist, Tremors, Som, Nau, Irrit Eyes, Skin, Card Acc., Ftg, [Carc]
Trichlorofluoromethane	28 mg/m <sup>3</sup>	1,000 ppm	1,000 ppm	---	2,000 ppm	Inh, Con, Ing	Inco, trem, derm, card, asph, frost
Trichlorotrifluoroethane	45 ppm	1,000 ppm	1,000 ppm	1,250 ppm	2,000 ppm	Inh, Con, Ing	Irrit Skin, throat, Drow, Derm, CSN, Depress
Vinyl Chloride***	10-20 ppm	1 ppm	1 ppm	5 ppm	ND	Inh, Con	Lass, Abdom, Gi Bleeding; Hepatomegaly; Pallor or Cyan of Extremities; Liq: Frostbite; [Carc]
VM&P Naphtha (petroleum naphtha)	---	---	300 ppm	---	ND	Con, Ing, Inh	Irrit Eyes, Nose, Throat, Dizz, drow, head, nau, dry skin, chem. Pneumonitis
Xylene*	4.5 mg/m <sup>3</sup>	100 ppm	100 ppm	150 ppm	900 ppm	Inh, Ing, Abs, Con	Dizz, Drow, Irrit, Excite, Nau, Vomit, Eyes, Skin, Nose, Throat
Zinc (oxide)	---	5 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	---	500 mg/m <sup>3</sup>	Inh	Dry Throat, Cough, Chills, Tight Chest, Blurred Vision
4,4' DDD	---	---	---	---	---	Ing, Inh, Con	---
4,4' DDE	---	---	---	---	---	Ing, Inh, Con	---
4,4' DDT	5.0725 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	---	[500 mg/m <sup>3</sup> ]	Inh, Abs, Ing, Con	Irrit Eyes, Skin, Pares, Tongue, Lips, Face, Trem, Anxi, Dizz, Conf, Mal, Head, Lass, Conv, Paresi Hands, Vomit, [Carc]

**TABLE 13**  
**CONTAMINANTS OF CHEMICALS KNOWN OR SUSPECTED ONSITE**  
 \*HIGHLIGHT THOSE THAT APPLY TO THE TASK BEING PERFORMED.

CONTAMINANT	ODOR THRESHOLD	OSHA PEL <sup>1</sup>	TLV (ACGIH)	OSHA CEILING <sup>2</sup> /STEL	IDLH CONC.	ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE <sup>3</sup>
Aldrin		0.25 mg/m <sup>3</sup>	0.25 mg/m <sup>3</sup>	---	[25 mg/m <sup>3</sup> ]	Inh, Abs, Ing, Con	Head, Dizz, Nau, Vomit, Mal, Myo [Carc]
Chlordane [skin]	0.0084 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>		[100 mg/m <sup>3</sup> ]	Inh, Abs, Ing, Con	Blurred vision, confusion, delirium, cough; abdominal pian, nausea, vomiting diarrhea; irritability, tremor, convulsions [Carc]
EDB	76.8 mg/m <sup>3</sup>	20 ppm		30 ppm	[100 ppm]	Inh, Abs	Resp. Irr, Eye Irr. [Carc]
Endosulfan I Endosulfan II	---	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>	---	N.D.	Inh, Abs, Ing, Con	Irrit, Skin, Nau, Conf, Agit, Flush, Dry, Trem, Conv, Head
Endosulfan Sulfate		---	0.1 mg/m <sup>3</sup>	---	---	Ing, Con	---
Endrin	1.8 x 10 <sup>-2</sup> ppm	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>-3</sup>	---	2 mg/m <sup>3</sup>	Inh, Abs, Ing, Con	Epil Conv, Stup, Head, Dizz, Abdom, Nau, Vomit, Insom, Agress, Conf, Drow, Lass, Anor
Endrin Aldehyde	1.8 x 10 <sup>-2</sup> ppm	---	---	---	---	Inh, Con	---
Endrin Ketone	---	---	---	---	---	---	---
Heptachlor	0.02 ppm	0.5 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>	---	[35 mg/m <sup>3</sup> ]	Inh, Abs, Ing, Con	In animals, Trem, Conv, [Carc]
Heptachlor epoxide	0.02 ppm	---	0.05 mg/m <sup>3</sup>	---	---	Ing, Inh	Trem, Conv, [Carc]
Hydrogen Cyanide(Hydrocyanic Acid)	0.9 mg/m <sup>3</sup>	10 ppm (11 mg/m <sup>3</sup> )	4.7 ppm	4.7 ppm	50 ppm	Con, Inh, Ing, Abs	Asphy & death at high levels; Weak, Head, Conf, Nau, Vomit, Incr. Rate and Depth of Respiration or Respiration Slow and Gaspig

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**CONTAMINANTS OF CHEMICALS KNOWN OR SUSPECTED ONSITE**  
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CONTAMINANT	ODOR THRESHOLD	OSHA PEL <sup>1</sup>	TLV (ACGIH)	OSHA CEILING <sup>2</sup> /STEL	IDLH CONC.	ROUTES OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE <sup>3</sup>
<b>NOTES</b>							
* = Constituent found in ETPH							
**=Constituent found in Acid/Base/Neutral Extractable Compounds							
***=Constituent found in Volatile Organic Compounds							
****=Constituent found in Leaching Lead							
<sup>1</sup> PEL = Permissible Exposure Limit. If no PEL is available, then the NIOSH Threshold Limit Value (TLV) should be used, if available.							
<sup>2</sup> Ceiling limit or Short-Term Exposure Limit (STEL), if available. Again, the NIOSH TLV may be used if no OSHA standard exists.							
<sup>3</sup> Abbreviations are contained on the next page							
[ ] = Potential Occupational Carcinogen							
ND = Not Been Determined							

## **ABBREVIATIONS**

abdom = Abdominal	irrt = Irritability
abs = Absorption	lac = Lacrimation (discharge of tears)
aggress = Aggressiveness	lass = Lassitude (weakness, exhaustion)
agit = Agitation	li-head = Lightheadedness
anor = Anorexia	liq = Liquid
anos = Anosmia (loss of the sense of smell)	low-wgt = Weight loss
Anxi = anxiety	mal = Malaise (vague feeling of discomfort)
anem – Anemia	malnut = Malnutrition
aspir = Aspiration	methem = Methemoglobinemia
asph – asphyxia	myo = Myoclonic (jerks of limbs)
bron = Bronchitis	mg/m = milligrams/cubic meter
bron pneu = Bronchitis pneumonitis	muc memb = Mucous membrane
[carc] = Potential occupational carcinogen	mus ftg = Muscle fatigue
Card = Cardiac arrhythmias	narco = Narcosis
CNS = Central nervous system	nau = Nausea
conf = Confusion	ner = Nervousness
constip = Constipation	numb = Numbness
con = Skin and/or eye contact	optic = Optic nerve damage (blindness)
conv = Convulsions	pall = Facial pallor
corn = Corneal	parap = Paralysis
cyan = Cyanosis	ppm = Parts per million
defat = Defatting	pares = Paresthesia
depres = Depressant/Depression	paresi = Paresis
derm = Dermatitis	peri neur = Peripheral neuropathy
diarr = Diarrhea	pneu = Pneumonitis
dist = Disturbance	prot = Proteinuria
dizz = Dizziness	pulm = Pulmonary
drow = Drowsiness	peri neur = Peripheral neuropathy
dry = Dry mouth	pneu = Pneumonia
dysp = Dyspnea (breathing difficulty)	prot = Proteinuria
emphy = Emphysema	pulm = Pulmonary
epil-conv = Epileptiform convulsions	repro = Reproductive
eryth = Erythema	resp = Respiratory
euph = Euphoria	skin sen = skin sensitization
fib = Fibrosis	salv = Salvation
frost = frostbite	som = Somnolence (sleepiness unnatural drowsiness)
ftg = Fatigue	subs = Substernal (occurring beneath the sternum)
flush = Flushing	stup = Stupor
GI = Gastrointestinal	sys = System
head = Headache	tingle = tingle limbs
hyperpig = Hyperpigmentation	trem – Tremors
inco = Incoordination	verti = Vertigo
ing = Ingestion	vis dist = Visual disturbance
inh = Inhalation	vomit = Vomiting
inj = Injury	weak = Weakness
insom = Insomnia	
irrit = Irritation	

# APPENDIX A

## Safety and Logistics Planning Log



**Safety and Logistics Planning Log  
DEC009808**

<b>Date of Call</b>	
<b>Work Assignment Number / Task</b>	
<b>DEC Site Name and Number</b>	

<b>ATTENDEES</b>		
<b>HRP</b>		
<b>POSITION</b>	<b>NAME</b>	<b>NUMBER</b>
HRP PM		
HRP SSO		
HRP Other:		
HRP Other:		
<b>SUBCONTRACTORS</b>		
<b>POSITION</b>	<b>NAME</b>	<b>NUMBER</b>
Driller Contact		
Utility Survey		
Surveyor		
Construction		
Other		
<b>DEC</b>		
<b>POSITION</b>	<b>NAME</b>	<b>NUMBER</b>
DEC PM		
DEC Other:		
DEC Other:		
<b>BRIEF DESCRIPTION: SCOPE OF WORK (Task Specific)</b>		<b>*Use additional forms for additional tasks</b>

<b>LOGISTICS</b>		
<b>Date of Work</b>		<b>Time to Meet</b>
<b>Site Contact (phone)</b>		
<b>Notification of Site Contact made by</b>		
<b>Describe any unusual site-specific conditions/logistics here (if any):</b>		

<b>QUESTIONS</b>	<b>Y/N</b>	<b>NOTES</b>
Water Needed? Source Confirmed?	Y / N	
Electricity Needed? Source Confirmed?	Y / N	
Water Storage Needed?	Y / N	
Water Discharges? Permits Needed/Attained?	Y / N	
Air Monitoring – CAMP?	Y / N	
Will there be intrusive work?	Y / N	
Locations marked in the field?	Y / N	
NYS Code Rule 753/Dig Safe System	Y / N	Ticket Number:
Confirmed that mark-out complete?	Y / N	
<b>Anticipated Subsurface Conditions (Geology, Utilities, etc.):</b>		
<b>Anticipated Depth to Groundwater:</b>		
Will NAPL/Product be Present?	Y / N Describe:	
<b>Will there be any other parties entering the work zones? Describe control measures.</b>		

# APPENDIX B

## Personnel Log



# APPENDIX C

## Job Safety Analysis (JSA)

**JSA Completed By** \_\_\_\_\_

**HAZARD RANKING CHART**

SEVERITY	CONSEQUENCE		PROBABILITY				
	Injury		Frequent	Likely	Occasional	Seldom	Unlikely
	Fatality		H	H	H	H	M
	Injury Requiring Hospitalization		H	H	H	M	L
	Injury Requiring Medical Treatment Beyond First Aid		H	M	M	L	L
	Injury Requiring First Aid		M	L	L	L	L

**TASK** \_\_\_\_\_

**LOCATION OF TASK PERFORMED** \_\_\_\_\_ **DATE OF JSA** \_\_\_\_\_

**TASK DESCRIPTION**

\*There are different categories of hazards to include: Biological, Physical, Safety, Chemicals, and Ergonomics

STEPS	HAZARD	CONTROL MEASURES	RISK RATING

# APPENDIX D

## Toolbox Talk

**TOOLBOX TALK**

GENERAL INFORMATION		
<b>Person Conducting</b>	<b>Site Name/Address</b>	<b>HRP Client Name/Job #</b>
<b>Client Contact/Phone</b>	<b>HRP H&amp;S Rep.</b>	<b>HRP Supervisor</b>
<b>Date/Time</b>	<b>Number Attending</b>	<b>Weather</b>
<b>Designated Competent Person:</b>		
<b>Description of Work</b>		

ATTENDEES (Use additional sheets as needed)		
Name	Company	Signature

EMERGENCY CONTACT INFORMATION		
<b>Emergency Telephone Numbers</b>	FIRE / POLICE / AMBULANCE: 911	
Hospital Name & Location:		
NYSDEC Spill Line: 1-518-457-7362	National Response Center: 800-424-8802	CBYD: 800-922-4455
Health & Safety Manager:		

HAZARDS		
<input type="checkbox"/> Toxic	<input type="checkbox"/> Extreme Cold/Heat	<input type="checkbox"/> Soil Excavation
<input type="checkbox"/> Corrosive	<input type="checkbox"/> Drains/Sumps	<input type="checkbox"/> Tank Excavation
<input type="checkbox"/> Flammable	<input type="checkbox"/> Sharp Objects	<input type="checkbox"/> Trenching
<input type="checkbox"/> Combustible	<input type="checkbox"/> Drilling in Soil	<input type="checkbox"/> Floor Holes
<input type="checkbox"/> Reactive	<input type="checkbox"/> Lighting	<input type="checkbox"/> Working on/near Water
<input type="checkbox"/> Path Waste	<input type="checkbox"/> Slips/Trips/Falls	<input type="checkbox"/> Underground/Overhead Utilities
<input type="checkbox"/> Asbestos	<input type="checkbox"/> Lead	<input type="checkbox"/> Power washing
<input type="checkbox"/> Abrasive Blasting	<input type="checkbox"/> Abrasive Blasting	<input type="checkbox"/> Lifting
<input type="checkbox"/> Drum Handling	<input type="checkbox"/> Live Electrical Circuits	<input type="checkbox"/> Noise
<input type="checkbox"/> Pneumatic Tools	<input type="checkbox"/> Elevated Work Area	<input type="checkbox"/> Ladders
<input type="checkbox"/> Vac Truck	<input type="checkbox"/> Hot Work	<input type="checkbox"/> Vehicle Traffic
<input type="checkbox"/> Other (s):		

**TOOLBOX TALK**

PERSONAL SAFETY / PERSONAL PROTECTIVE EQUIPMENT (PPE)			
<input type="checkbox"/> Supplied Air Respirator	<input type="checkbox"/> SAR w/Egress Bottle	<input type="checkbox"/> SCBA	<input type="checkbox"/> Air Purifying Respirator Cartridge:
<input type="checkbox"/> Fully Encapsulating Suit	<input type="checkbox"/> Flash Suit	<input type="checkbox"/> NOMEX (flam resistant)	<input type="checkbox"/> Protected Coveralls, Type:
<input type="checkbox"/> Overboots	<input type="checkbox"/> Lifebelt/Lanyard	<input type="checkbox"/> Hardhats	<input type="checkbox"/> Outer Gloves, Type:
<input type="checkbox"/> Safety Glasses	<input type="checkbox"/> Chemical Goggles	<input type="checkbox"/> Face Shield	<input type="checkbox"/> Inner Gloves, Type:
<input type="checkbox"/> Reflective Vests	<input type="checkbox"/> Eye Wash	<input type="checkbox"/> Safety Shower	<input type="checkbox"/> First Aid Kit
<input type="checkbox"/> Hearing Protection	<input type="checkbox"/> Evacuation Plan	<input type="checkbox"/> Communications	<input type="checkbox"/> Properly Sloped Excavation/ Trench
<input type="checkbox"/> PFD's	<input type="checkbox"/> Ventilation	<input type="checkbox"/> Steel Toe Boots	

FIRE SAFETY			
<input type="checkbox"/> Fire Extinguishers	<input type="checkbox"/> Hot Work Permit	<input type="checkbox"/> Fire Blanket	<input type="checkbox"/> Explosion-Proof Equipment
<input type="checkbox"/> Equipment Grounded & Bonded	<input type="checkbox"/> Non-Sparking Tools	<input type="checkbox"/> Eliminate Ignition Sources	<input type="checkbox"/> Area Kept Wet
<input type="checkbox"/> Smoking Area Designated Location:	<input type="checkbox"/> Fire Hose Laid Out	<input type="checkbox"/> Alarm Box in Area, Location:	

ISOLATE EQUIPMENT & ELECTRICAL EQUIPMENT			
<input type="checkbox"/> Establish Exclusion Zone/Traffic Cones	<input type="checkbox"/> Work Signs	<input type="checkbox"/> LockOut/TagOut	<input type="checkbox"/> Non-Conductive Tools
<input type="checkbox"/> Stop Transfers	<input type="checkbox"/> Caution Tape Area	<input type="checkbox"/> Equipment Grounded	<input type="checkbox"/> FR Suits/Coveralls
<input type="checkbox"/> GFCIS	<input type="checkbox"/> Temporary Fencing		

AIR MONITORING			
Type of Meter:		Date last calibrated:	
SUBSTANCE	LEVEL B MAX.	ACTION LEVEL/LEVEL C MAX.	LEVEL D MAX.

HEALTH & SAFETY COMMENTS-QUESTIONS-CONCERNS / TOPICS & SAFETY RULES REVIEWED

Contaminants of Concern:	
HEALTH & SAFETY SIGNATURE:	Date:

Is there a Health & Safety Plan available on-site? Yes  No

HAZARD ZONES NOT APPLICABLE, GENERAL WORK AREA Level D  Modified Level D  Level C

Anything above Level C, foreman should use a Confined Space Permit/Form.

Note: HOT WORK requires a hot work permit and minimum 20# fire extinguisher. Foreman or HSM must record at least one contaminant of concern above. Toxic plants may be considered a COC if no chemical hazards are expected.

**LEVEL C**

Respirator Type:				
Name	Zone	Time In	Time Out	Decon Type

Before performing Level C work, ALL employees must review HRP's Respiratory Protection Program - a copy of which must be on-site along with a HASP.



# APPENDIX E

## Specific Procedures

# APPENDIX F

## Safety Data Sheets

(for chemicals brought to the site)

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.08.2015**Revision :** 12.10.2015**Trade Name:** Alconox**1 Identification of the substance/mixture and of the supplier****1.1 Product identifier****Trade Name:** Alconox**Synonyms:****Product number:** Alconox**1.2 Application of the substance / the mixture :** Cleaning material/Detergent**1.3 Details of the supplier of the Safety Data Sheet**

<b>Manufacturer</b>	<b>Supplier</b>
Alconox, Inc. 30 Glenn Street White Plains, NY 10603 1-914-948-4040	Not Applicable

**Emergency telephone number:****ChemTel Inc**

North America: 1-800-255-3924

International: 01-813-248-0585

**2 Hazards identification****2.1 Classification of the substance or mixture:**

In compliance with EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments.

**Hazard-determining components of labeling:**Tetrasodium Pyrophosphate  
Sodium tripolyphosphate  
Sodium Alkylbenzene Sulfonate**2.2 Label elements:**Skin irritation, category 2.  
Eye irritation, category 2A.**Hazard pictograms:****Signal word:** Warning**Hazard statements:**H315 Causes skin irritation.  
H319 Causes serious eye irritation.**Precautionary statements:**P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 If on skin: Wash with soap and water.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P501 Dispose of contents and container as instructed in Section 13.

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015

Revision : 12.10.2015

**Trade Name:** Alconox**Additional information:** None.**Hazard description****Hazards Not Otherwise Classified (HNOC):** None**Information concerning particular hazards for humans and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**Classification system:**

The classification is according to EC regulation No. 1272/2008, 29CFR1910/1200 and GHS Rev. 3 and amendments, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

**3 Composition/information on ingredients****3.1 Chemical characterization :** None**3.2 Description :** None**3.3 Hazardous components (percentages by weight)**

Identification	Chemical Name	Classification	Wt. %
<b>CAS number:</b> 7758-29-4	Sodium tripolyphosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	12-28
<b>CAS number:</b> 68081-81-2	Sodium Alkylbenzene Sulfonate	Acute Tox. 4; H303 Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	8-22
<b>CAS number:</b> 7722-88-5	Tetrasodium Pyrophosphate	Skin Irrit. 2 ; H315 Eye Irrit. 2; H319	2-16

**3.4 Additional Information :** None.**4 First aid measures****4.1 Description of first aid measures****General information:** None.**After inhalation:**

Maintain an unobstructed airway.

Loosen clothing as necessary and position individual in a comfortable position.

**After skin contact:**

Wash affected area with soap and water.

Seek medical attention if symptoms develop or persist.

**After eye contact:**

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.

Remove contact lens(es) if able to do so during rinsing.

Seek medical attention if irritation persists or if concerned.

**After swallowing:**

Rinse mouth thoroughly.

Seek medical attention if irritation, discomfort, or vomiting persists.

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.08.2015**Revision :** 12.10.2015**Trade Name:** Alconox**4.2 Most important symptoms and effects, both acute and delayed**

None

**4.3 Indication of any immediate medical attention and special treatment needed:**

No additional information.

**5 Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

**For safety reasons unsuitable extinguishing agents :** None**5.2 Special hazards arising from the substance or mixture :**

Thermal decomposition can lead to release of irritating gases and vapors.

**5.3 Advice for firefighters****Protective equipment:**

Wear protective eye wear, gloves and clothing.

Refer to Section 8.

**5.4 Additional information :**

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols.

Avoid contact with skin, eyes and clothing.

**6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures :**

Ensure adequate ventilation.

Ensure air handling systems are operational.

**6.2 Environmental precautions :**

Should not be released into the environment.

Prevent from reaching drains, sewer or waterway.

**6.3 Methods and material for containment and cleaning up :**

Wear protective eye wear, gloves and clothing.

**6.4 Reference to other sections :** None**7 Handling and storage****7.1 Precautions for safe handling :**

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

**7.2 Conditions for safe storage, including any incompatibilities :**

Store in a cool, well-ventilated area.

**7.3 Specific end use(s):**

No additional information.

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

Effective date: 12.08.2015

Revision : 12.10.2015

**Trade Name:** Alconox

### 8 Exposure controls/personal protection



#### 8.1 Control parameters :

7722-88-5, Tetrasodium Pyrophosphate, OSHA TWA 5 mg/m3.

#### 8.2 Exposure controls

##### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

##### Respiratory protection:

Not needed under normal conditions.

##### Protection of skin:

Select glove material impermeable and resistant to the substance.

##### Eye protection:

Safety goggles or glasses, or appropriate eye protection.

##### General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

### 9 Physical and chemical properties

<b>Appearance (physical state, color):</b>	White and cream colored flakes - powder	<b>Explosion limit lower:</b> <b>Explosion limit upper:</b>	Not determined or not available. Not determined or not available.
<b>Odor:</b>	Not determined or not available.	<b>Vapor pressure at 20°C:</b>	Not determined or not available.
<b>Odor threshold:</b>	Not determined or not available.	<b>Vapor density:</b>	Not determined or not available.
<b>pH-value:</b>	9.5 (aqueous solution)	<b>Relative density:</b>	Not determined or not available.
<b>Melting/Freezing point:</b>	Not determined or not available.	<b>Solubilities:</b>	Not determined or not available.
<b>Boiling point/Boiling range:</b>	Not determined or not available.	<b>Partition coefficient (n-octanol/water):</b>	Not determined or not available.
<b>Flash point (closed cup):</b>	Not determined or not available.	<b>Auto/Self-ignition temperature:</b>	Not determined or not available.
<b>Evaporation rate:</b>	Not determined or not available.	<b>Decomposition temperature:</b>	Not determined or not available.

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.08.2015

**Revision :** 12.10.2015

<b>Trade Name:</b> Alconox			
<b>Flammability (solid, gaseous):</b>	Not determined or not available.	<b>Viscosity:</b>	a. Kinematic: Not determined or not available. b. Dynamic: Not determined or not available.
<b>Density at 20°C:</b>	Not determined or not available.		

### 10 Stability and reactivity

- 10.1 Reactivity :** None
- 10.2 Chemical stability :** None
- 10.3 Possibility hazardous reactions :** None
- 10.4 Conditions to avoid :** None
- 10.5 Incompatible materials :** None
- 10.6 Hazardous decomposition products :** None

### 11 Toxicological information

#### 11.1 Information on toxicological effects :

**Acute Toxicity:**

**Oral:**

: LD50 > 5000 mg/kg oral rat - Product .

**Chronic Toxicity:** No additional information.

**Skin corrosion/irritation:**

Sodium Alkylbenzene Sulfonate: Causes skin irritation. .

**Serious eye damage/irritation:**

Sodium Alkylbenzene Sulfonate: Causes serious eye irritation .

Tetrasodium Pyrophosphate: Rabbit - Risk of serious damage to eyes .

**Respiratory or skin sensitization:** No additional information.

**Carcinogenicity:** No additional information.

**IARC (International Agency for Research on Cancer):** None of the ingredients are listed.

**NTP (National Toxicology Program):** None of the ingredients are listed.

**Germ cell mutagenicity:** No additional information.

**Reproductive toxicity:** No additional information.

**STOT-single and repeated exposure:** No additional information.

**Additional toxicological information:** No additional information.

### 12 Ecological information

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.08.2015**Revision :** 12.10.2015**Trade Name:** Alconox**12.1 Toxicity:**

Sodium Alkylbenzene Sulfonate: Fish, LC50 1.67 mg/l, 96 hours.  
 Sodium Alkylbenzene Sulfonate: Aquatic invertebrates, EC50 Daphnia 2.4 mg/l, 48 hours.  
 Sodium Alkylbenzene Sulfonate: Aquatic Plants, EC50 Algae 29 mg/l, 96 hours.  
 Tetrasodium Pyrophosphate: Fish, LC50 - other fish - 1,380 mg/l - 96 h.  
 Tetrasodium Pyrophosphate: Aquatic invertebrates, EC50 - Daphnia magna (Water flea) - 391 mg/l - 48 h.

**12.2 Persistence and degradability:** No additional information.**12.3 Bioaccumulative potential:** No additional information.**12.4 Mobility in soil:** No additional information.**General notes:** No additional information.**12.5 Results of PBT and vPvB assessment:****PBT:** No additional information.**vPvB:** No additional information.**12.6 Other adverse effects:** No additional information.**13 Disposal considerations****13.1 Waste treatment methods (consult local, regional and national authorities for proper disposal)****Relevant Information:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. (US 40CFR262.11).

**14 Transport information**

<b>14.1 UN Number:</b> ADR, ADN, DOT, IMDG, IATA	None						
<b>14.2 UN Proper shipping name:</b> ADR, ADN, DOT, IMDG, IATA	None						
<b>14.3 Transport hazard classes:</b> ADR, ADN, DOT, IMDG, IATA	<table> <tr> <td><b>Class:</b></td> <td>None</td> </tr> <tr> <td><b>Label:</b></td> <td>None</td> </tr> <tr> <td><b>LTD. QTY:</b></td> <td>None</td> </tr> </table>	<b>Class:</b>	None	<b>Label:</b>	None	<b>LTD. QTY:</b>	None
<b>Class:</b>	None						
<b>Label:</b>	None						
<b>LTD. QTY:</b>	None						
<hr/>							
<b>US DOT Limited Quantity Exception:</b>	None						
<b>Bulk:</b>	<b>Non Bulk:</b>						
<b>RQ (if applicable):</b> None	<b>RQ (if applicable):</b> None						
<b>Proper shipping Name:</b> None	<b>Proper shipping Name:</b> None						
<b>Hazard Class:</b> None	<b>Hazard Class:</b> None						
<b>Packing Group:</b> None	<b>Packing Group:</b> None						
<b>Marine Pollutant (if applicable):</b> No additional information.	<b>Marine Pollutant (if applicable):</b> No additional information.						

**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.08.2015**Revision :** 12.10.2015

<b>Trade Name:</b> Alconox	
<b>Comments:</b> None	<b>Comments:</b> None
<b>14.4 Packing group:</b> ADR, ADN, DOT, IMDG, IATA	None
<b>14.5 Environmental hazards :</b>	None
<b>14.6 Special precautions for user:</b> <b>Danger code (Kemler):</b> <b>EMS number:</b> <b>Segregation groups:</b>	None None None None
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> Not applicable.	
<b>14.8 Transport/Additional information:</b>  <b>Transport category:</b> <b>Tunnel restriction code:</b> <b>UN "Model Regulation":</b>	
	None None None

**15 Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.  
North American**

<b>SARA</b> <b>Section 313 (specific toxic chemical listings):</b> None of the ingredients are listed. <b>Section 302 (extremely hazardous substances):</b> None of the ingredients are listed.
<b>CERCLA (Comprehensive Environmental Response, Clean up and Liability Act) Reportable</b> <b>Spill Quantity:</b> None of the ingredients are listed.
<b>TSCA (Toxic Substances Control Act):</b> <b>Inventory:</b> All ingredients are listed. <b>Rules and Orders:</b> Not applicable.
<b>Proposition 65 (California):</b>  <b>Chemicals known to cause cancer:</b> None of the ingredients are listed. <b>Chemicals known to cause reproductive toxicity for females:</b> None of the ingredients are listed. <b>Chemicals known to cause reproductive toxicity for males:</b> None of the ingredients are listed. <b>Chemicals known to cause developmental toxicity:</b> None of the ingredients are listed.

<b>Canadian</b> <b>Canadian Domestic Substances List (DSL):</b> All ingredients are listed.
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**EU**

<b>REACH Article 57 (SVHC):</b> None of the ingredients are listed.
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**Safety Data Sheet**

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.08.2015**Revision :** 12.10.2015**Trade Name:** Alconox**Germany MAK:** Not classified.**Asia Pacific****Australia****Australian Inventory of Chemical Substances (AICS):** All ingredients are listed.**China****Inventory of Existing Chemical Substances in China (IECSC):** All ingredients are listed.**Japan****Inventory of Existing and New Chemical Substances (ENCS):** All ingredients are listed.**Korea****Existing Chemicals List (ECL):** All ingredients are listed.**New Zealand****New Zealand Inventory of Chemicals (NZOIC):** All ingredients are listed.**Philippines****Philippine Inventory of Chemicals and Chemical Substances (PICCS):** All ingredients are listed.**Taiwan****Taiwan Chemical Substance Inventory (TSCI):** All ingredients are listed.**16 Other information****Abbreviations and Acronyms:** None**Summary of Phrases****Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements:**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with soap and water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P321 Specific treatment (see supplemental first aid instructions on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P501 Dispose of contents and container as instructed in Section 13.

**Manufacturer Statement:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**NFPA:** 1-0-0

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), 29CFR1910/1200 and GHS Rev. 3

**Effective date:** 12.08.2015

**Revision :** 12.10.2015

**Trade Name:** Alconox

**HMIS:** 1-0-0

## SAFETY DATA SHEET

Version 5.2  
Revision Date 02/24/2014  
Print Date 11/13/2016

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : Distilled water

Product Number : 07-6061

Brand : Katayama OEM Partner

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS-No. : 7732-18-5

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

#### 1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

#### 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Formula : H<sub>2</sub>O H<sub>2</sub>O

Molecular Weight : 18.02 g/mol

CAS-No. : 7732-18-5

EC-No. : 231-791-2

No ingredients are hazardous according to OSHA criteria.  
No components need to be disclosed according to the applicable regulations.

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### If inhaled

If not breathing give artificial respiration

- 4.2 Most important symptoms and effects, both acute and delayed**  
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed**  
no data available
- 

## 5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media**  
**Suitable extinguishing media**  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 5.2 Special hazards arising from the substance or mixture**  
no data available
- 5.3 Advice for firefighters**  
no data available
- 5.4 Further information**  
The product itself does not burn.
- 

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**  
For personal protection see section 8.
- 6.2 Environmental precautions**  
no data available
- 6.3 Methods and materials for containment and cleaning up**  
Wipe up with absorbent material (e.g. cloth, fleece).
- 6.4 Reference to other sections**  
For disposal see section 13.
- 

## 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**  
For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**  
No special storage conditions required.
- 7.3 Specific end use(s)**  
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
- 

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**  
**Components with workplace control parameters**  
Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls**  
**Appropriate engineering controls**  
Handle in accordance with good industrial hygiene and safety practice.
- Personal protective equipment**
- Skin protection**  
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- Full contact  
Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### Respiratory protection

No special protective equipment required.

### Control of environmental exposure

Prevent product from entering drains.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: liquid Colour: colourless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	6.0 - 8.0 at 25 °C (77 °F)
e) Melting point/freezing point	0.0 °C (32.0 °F)
f) Initial boiling point and boiling range	100 °C (212 °F) - lit.
g) Flash point	not applicable
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	1.000 g/cm <sup>3</sup> at 3.98 °C (39.16 °F)
n) Water solubility	completely miscible
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

## 9.2 Other safety information

no data available

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

no data available

Inhalation: no data available

Dermal: no data available

no data available

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

no data available

#### Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

no data available

no data available

#### Specific target organ toxicity - single exposure

no data available

#### Specific target organ toxicity - repeated exposure

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: ZC0110000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

no data available

**12.2 Persistence and degradability**

not applicable

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

no data available

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**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product**

Taking into account local regulations the product may be disposed of as waste water after neutralisation.

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**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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**15. REGULATORY INFORMATION**

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

Water CAS-No. 7732-18-5 Revision Date

**New Jersey Right To Know Components**

Water CAS-No. 7732-18-5 Revision Date

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION**

**HMIS Rating**

Health hazard: 0

Chronic Health Hazard:

Flammability: 0

Physical Hazard 0

**NFPA Rating**

Health hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

**Further information**

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**Preparation Information**

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956

Version: 5.2

Revision Date: 02/24/2014

Print Date: 11/13/2016

**REVISION HISTORY**

<b>REVISION AND APPROVAL LOG</b>			
<b>REVISION DATE</b>	<b>REVISION CONTENT</b>	<b>REVISED BY</b>	<b>APPROVED BY</b>
1/18/2021	Initiation of document/Reviewed by Jackie Baxley	SF	TAG
6/6/2024	<ul style="list-style-type: none"> <li>- Update formatting</li> <li>- Update order of headers</li> <li>- Implemented tables within HASP, not as Appendix</li> <li>- Combining NY and other states – generic HASP to make site-specific</li> <li>- Checkbox formatting</li> <li>- Updated Action Levels Table</li> </ul>	JLE	TAG

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# APPENDIX B

## Community Air Monitoring Program (CAMP)

**Community Air Monitoring Plan**  
***City of Corning Fire Department Site, Corning, New York***

This 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 during remedial activities at the site. The CAMP is not intended for use in establishing action levels for workers 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.

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

Depending on the nature of known or potential contaminants at the site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary.

**Continuous monitoring** will be required for all ground intrusive activities. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching.

**Periodic monitoring** for VOCs will be required during non-intrusive activities such as the collection of soil samples. "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, continuing monitoring may be required during sampling activities.

**Particulate Monitoring, Response Levels, and Actions**

Particulate concentrations will be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will 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 will be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration will be visually assessed during all work activities. Work will be completed in accordance with Appendix 1B: Fugitive Dust and Particulate Monitoring of DER-10.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m<sup>3</sup>) greater than the background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques will be employed. Work may continue with dust suppression techniques provided that no visible dust is migrating from the work area.
- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m<sup>3</sup> above the upwind level, work will 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<sup>3</sup> of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for State (DEC and DOH) personnel to review.

### **VOC Monitoring, Response Levels, and Actions**

VOCs will 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 will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using a photo ionization detector (PID) equipped with a 10.2 eV bulb. The PID will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- 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.
- 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 will be halted, the source of the 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.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities will be shutdown.

All 15-minute readings will be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded. Readings are to be provided at least on a weekly basis with all exceedances reported to the NYSDEC and NYSDOH on the same day, or next business day if exceedances are identified after work hours, along with any suspected reasoning, any corrective measures executed, and a conclusion if the corrective measures were effective.