
NOTIFICATION ADDENDUM TO EXCAVATION WORK PLAN

132 DINGENS ST. SITE
SITE NO. C915263
BUFFALO, NEW YORK

September 2019

B0365-019-002

Prepared for:

132 Dingens St., LLC
Buffalo, New York 14206

Prepared by:



2558 Hamburg Turnpike, Suite 300
Buffalo, New York 14218

EXCAVATION WORK PLAN

132 Dingens St. Site
Buffalo, New York

Table of Contents

1.0	INTRODUCTION.....	1
1.1	Background.....	1
1.2	Purpose.....	1
1.3	Project Schedule.....	1
2.0	SITE DESCRIPTION.....	3
2.1	General.....	3
2.2	Site History.....	3
2.3	Summary of Remedial Actions.....	3
2.3.1	<i>Remaining Contamination.....</i>	<i>4</i>
3.0	REDEVELOPMENT ACTIVITIES.....	5
3.1	Site Preparation.....	5
3.1.1	<i>Utility Clearance.....</i>	<i>5</i>
3.1.2	<i>City of Buffalo Permits.....</i>	<i>5</i>
3.2	Waste Characterization.....	5
3.3	Excavation Activities.....	5
3.4	Backfill Materials.....	6
3.4.1	<i>On-Site Reuse.....</i>	<i>6</i>
3.4.2	<i>Imported Backfill.....</i>	<i>6</i>
3.5	Non-Reusable Excavated Material.....	6
3.6	Site Restoration.....	7
4.0	EXCAVATION WORK PLAN SUPPORT DOCUMENTS.....	8
4.1	Health and Safety Protocols.....	8
4.2	Community Air Monitoring Plan.....	8
5.0	REPORTING.....	9
5.1.1	<i>Construction Monitoring.....</i>	<i>9</i>
5.1.2	<i>Construction Closeout Report.....</i>	<i>9</i>
6.0	REFERENCES.....	10

EXCAVATION WORK PLAN

132 Dingens St. Site
Buffalo, New York

Table of Contents

LIST OF FIGURES

Figure 1	Site Location and Vicinity Map
Figure 2	Cover System As-Built
Figure 3	Site Plan Layout

LIST OF APPENDICES

Appendix A	SMP Appendix C – Excavation Work Plan
------------	---------------------------------------

1.0 INTRODUCTION

This document presents the proposed scope of work and implementation procedures for intrusive activities in accordance with the New York State Department of Environmental Conservation (NYSDEC or Department) October 2016 Site Management Plan (SMP) for the 132 Dingens St. Site Brownfield Cleanup Program (BCP) Site No. C915263 (Ref. 1) located at 132-136 Dingens Street, Buffalo, New York (see Figure 1).

This excavation notification is being submitted in accordance with the Department-approved SMP. Appendix A includes an electronic copy of the SMP Excavation Work Plan (EWP) prepared by Iyer Environmental Group, PLLC. The 60-Day Advance Notification of Site change of Use was submitted to NYSDEC on August 7, 2019.

1.1 Background

The completed environmental remediation of the Site was undertaken by 132 Dingens St, LLC as a non-responsible party (Volunteer) under the NYSDEC's BCP. Environmental investigations found that the Site had been contaminated by semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and select Resource Conservation and Recovery Act (RCRA) metals (arsenic, lead and mercury) and cleanup efforts were completed at the Site in 2015-2016. After review and approval of the Final Engineering Report (FER; Ref. 2) and implementation of the SMP, NYSDEC issued a Certificate of Completion (COC) on December 20, 2016 to 132 Dingens St, LLC.

1.2 Purpose

The purpose of this Excavation Work Plan (EWP) is to notify the Department of planned intrusive activities related to new building construction that may result in exposure to remaining contamination on-site. This EWP has been prepared in accordance with the May 2010 NYSDEC DER-10 (Ref. 3) and October 2016 SMP. Intrusive activities will comply with the EWP included with the SMP and Occupational Safety and Health Standards contained at 29CFR 1910.120.

1.3 Project Schedule

A tentative project schedule is presented below.

- **October 2019:** Excavation and grading activities for building footers and utilities and subgrades; placement of concrete footers/foundations and floor slabs.

- **October-November 2019:** Building envelope construction.
- **December 2019-February 2020:** Interior building construction.
- **April 2020:** Completion of exterior asphalt and concrete, and cover system restoration.
- **April-May 2020:** Preparation of the Construction Closeout Report (as part of the Periodic Review Report due May 20, 2020).
- **June 2020:** Update SMP.

2.0 SITE DESCRIPTION

2.1 General

The Site is located at 132-136 Dingens Street in the City of Buffalo, Erie County, New York and identified as Section 112.19, Block 1, and Lot 14.11 on the City of Buffalo Tax Map. The irregular shaped approximate 13.22-acre Site is bordered by UPS ground terminal and Buffalo Games to the north; Dingens Street to the south; Niagara Tying Service to the east; and warehouses owned by Buffalo News and FPPF Chemical Company to the west. The Site is zoned commercial/light industrial and consists of an 85,000 square-foot foundation (remaining from an old warehouse that burned down in 2010) and a recently improved two-story office building. Most of the remaining land area is covered with asphalt/concrete/stone with small areas of vegetation (see Figure 2). 132 Dingens St, LLC leases the office building to Pinto Construction Services (Pinto CS) and a large portion of the paved area to Unicell for temporarily parking of new vehicles. The northwestern portion of the property is leased to First Student Bus Services for employee parking.

This project will include the construction of a one-story storage garage for Pinto CS.

2.2 Site History

Historically, the Site and its surrounding areas contained numerous rail lines and yards dating back to 1917. 132 Dingens St, LLC entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC on June 12, 2012 to investigate and remediate the Site. 132 Dingens St, LLC entered the BCP in June 2012 and subsequently investigated and remediated the Site under the oversight of NYSDEC in 2015. The SMP was approved by the NYSDEC and the COC was issued in December 2016.

2.3 Summary of Remedial Actions

Previous environmental investigations identified the presence of SVOCs, PCBs and select heavy metals typically associated with industrial fill material. Remedial activities completed by 132 Dingens St, LLC commenced in 2015 and were completed in 2016. The Site was remediated in accordance with the July 2015 RAWP (Ref. 4). A total of 2,033 cubic yards of contaminated soil/industrial fill was excavated and disposed off-site at a permitted solid waste facility. Some of this excavated soil was treated on-site with cement to stabilize its lead content before disposal as non-hazardous waste. A total of 11,782 cubic yards of

clean off-site fill meeting the requirements of 6NYCRR Part 375-6.7(d) was imported for use as backfill for the excavations. A cover system was required to allow for commercial use of the Site, preventing human exposure to remaining contamination. The cover system consists of asphalt, concrete, gravel, floor slab, building foundation, and one foot of soil cover in areas where the upper one foot of exposed surface soil exceeded the applicable soil cleanup objectives (SCOs). The cover system was placed over a demarcation layer of Geotextile fabric to distinguish it from the industrial/urban fill or clean fill used to establish the required grade. An Environmental Easement was granted May 2, 2016 and recorded with the Erie County Clerk to restrict land use to commercial operations and prevent future exposure to any contamination remaining on-site.

2.3.1 Remaining Contamination

The Site was remediated to address SVOCs, PCBs, arsenic, lead and mercury, and achieved a Track 4 Commercial Use Cleanup, which is consistent with the intended use of the Site. Residual contamination remaining at the Site includes soil/fill located beneath the cover system site-wide, though potential exposure is mitigated due to the depth of the contaminant, completion of the remedial activities, and placement of a Site cover system. Based on the planned location, depth of building foundations and utilities excavations, it is likely that redevelopment activities will encounter remaining contamination beneath the cover system during these shallow excavation activities. The approved SMP will be followed during these intrusive redevelopment activities.

3.0 REDEVELOPMENT ACTIVITIES

A portion of the BCP Site will be redeveloped to include construction of a new approximate 13,300 square-foot storage garage (see Figure 3). Benchmark Environmental Engineering & Science, PLLC (Benchmark) will provide construction oversight and monitoring. PintoCS will be the Site contractor performing the intrusive work and repairing the cover system.

3.1 Site Preparation

3.1.1 Utility Clearance

PintoCS will contact Dig Safely New York (Call 811) a minimum of three business days in advance of the excavation work at the Site.

3.1.2 City of Buffalo Permits

Pinto CS will acquire the necessary City of Buffalo building permits prior to initiating the work.

3.2 Waste Characterization

Soil/fill waste characterization samples were collected July 15, 2019 and analyzed by Alpha Analytical for the full list of waste characterization parameters. A waste profile application was submitted to Republic Services, Inc. on July 30, 2019 for approval to dispose of the soil at the Allied Waste Niagara Falls sanitary landfill. Waste disposal approval was received from Republic Services on August 8, 2019 for use of the material as alternate daily cover at the Allied Waste Landfill in Niagara Falls under Waste Profile #42151911668.

3.3 Excavation Activities

Planned excavations related to building footers and on-site utilities are expected to reach a depth of approximately 4 feet below ground surface (fbgs). Benchmark will perform soil/fill screening via visual, olfactory and photoionization detector (PID) and perform the air monitoring described in Section 4.2. Soil will be direct-loaded to dump trucks or roll off containers for transportation to the landfill. Figure 3 shows the foundations and utility layout where subsurface excavation will be completed.

Groundwater is not expected to be encountered. However, storm water removed from excavations by dewatering will be placed in 55-gallon drums and disposed off-site with the decontamination water generated during the geotechnical investigation in July 2019.

3.4 Backfill Materials

3.4.1 On-Site Reuse

“Reuse on-site” means reuse on-site of material that originates at the Site and does not leave the Site during excavation. The criteria under which soil/fill originating on-site may be reused on-site are presented below.

- **Clean Cover Material:** Approved cover material above the demarcation layer will be removed and stockpiled on-site. Cover material will be reused, as needed, for backfill and/or cover system restoration above demarcation layer.

3.4.2 Imported Backfill

Imported soil backfill from an off-site source must meet the commercial use criteria as presented in Appendix 5-Allowable Constituent Levels for Imported Fill or Soil in DER-10. Imported material will also meet the following criteria:

- Off-site soil/fill will originate from known sources having no evidence of disposal or releases of hazardous substances, hazardous, toxic or radioactive wastes, or petroleum.
- No off-site materials meeting the definition of a solid waste as defined in 6NYCRR, Part 360-1.2(a) shall be used as backfill.

All materials proposed for import onto the Site will be approved by a Qualified Environmental Professional and in compliance with provisions in the SMP prior to receipt at the Site. A Request to Import/Reuse Fill or Soil form will be prepared and submitted to the NYSDEC Project Manager allowing a minimum of five business days for review.

3.5 Non-Reusable Material

Excavated material from beneath the demarcation layer will be used as alternate daily cover at the Allied Waste Niagara Falls Landfill located in Niagara Falls, New York under Waste Profile #42151911668. Existing concrete and asphalt removed during the work will

be sent to Swift River Associates for recycling after ensuring underlying soil/fill is not comingled. Landfill disposal and recycling documents will be provided to the Department in the Construction Closeout Report (CCR).

3.6 Site Restoration

The asphalt cover system will be restored by PintoCS to pre-construction conditions once the building and utilities have been installed. Figure 2 provides cover system details.

4.0 EXCAVATION WORK PLAN SUPPORT DOCUMENTS

A copy of this EWP will be located on-site during intrusive activities.

4.1 Health and Safety Protocols

The Health and Safety Plan (HASP), Appendix H of the SMP, includes the following site-specific information:

- Hazard assessment and risk analysis.
- Training requirements.
- Definition of exclusion, decontamination, and other work zones.
- Monitoring procedures for site operations.
- Safety procedures.
- Personal protective clothing and equipment requirements for various field operations.
- Disposal and decontamination procedures.
- Emergency response and contingency planning.

4.2 Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) was prepared as part of the approved SMP for the Site. The CAMP describes the required particulate and vapor monitoring to protect the neighboring community and environment during intrusive activities (see Appendix H-2 of the HASP). Benchmark will perform the required monitoring during intrusive activities.

5.0 REPORTING

During and upon completion of the redevelopment activities, Benchmark will prepare the following reports.

5.1.1 Construction Monitoring

Standard daily reporting procedures will include preparation of a daily report and, when appropriate, problem identification and corrective measures reports. Information that may be included on the daily report includes:

- Processes and locations of construction under way.
- Equipment and personnel working in the area, including subcontractors.
- Number and type of truckloads of soil/fill removed from the Site.
- A description of off-site materials received, if any

The completed reports will be included as part of the CCR. The NYSDEC will be promptly notified of problems requiring modifications to this Work Plan prior to proceeding or completing the construction item. Photo documentation of the intrusive activities will be prepared by Benchmark throughout the duration of the project as necessary to convey typical work activities and whenever changed conditions or special circumstances arise.

5.1.2 Construction Closeout Report

A summary of the construction will be included in the CCR submitted to the NYSDEC as a component of the Periodic Review Report (PRR) due May 20, 2020. The CCR will include:

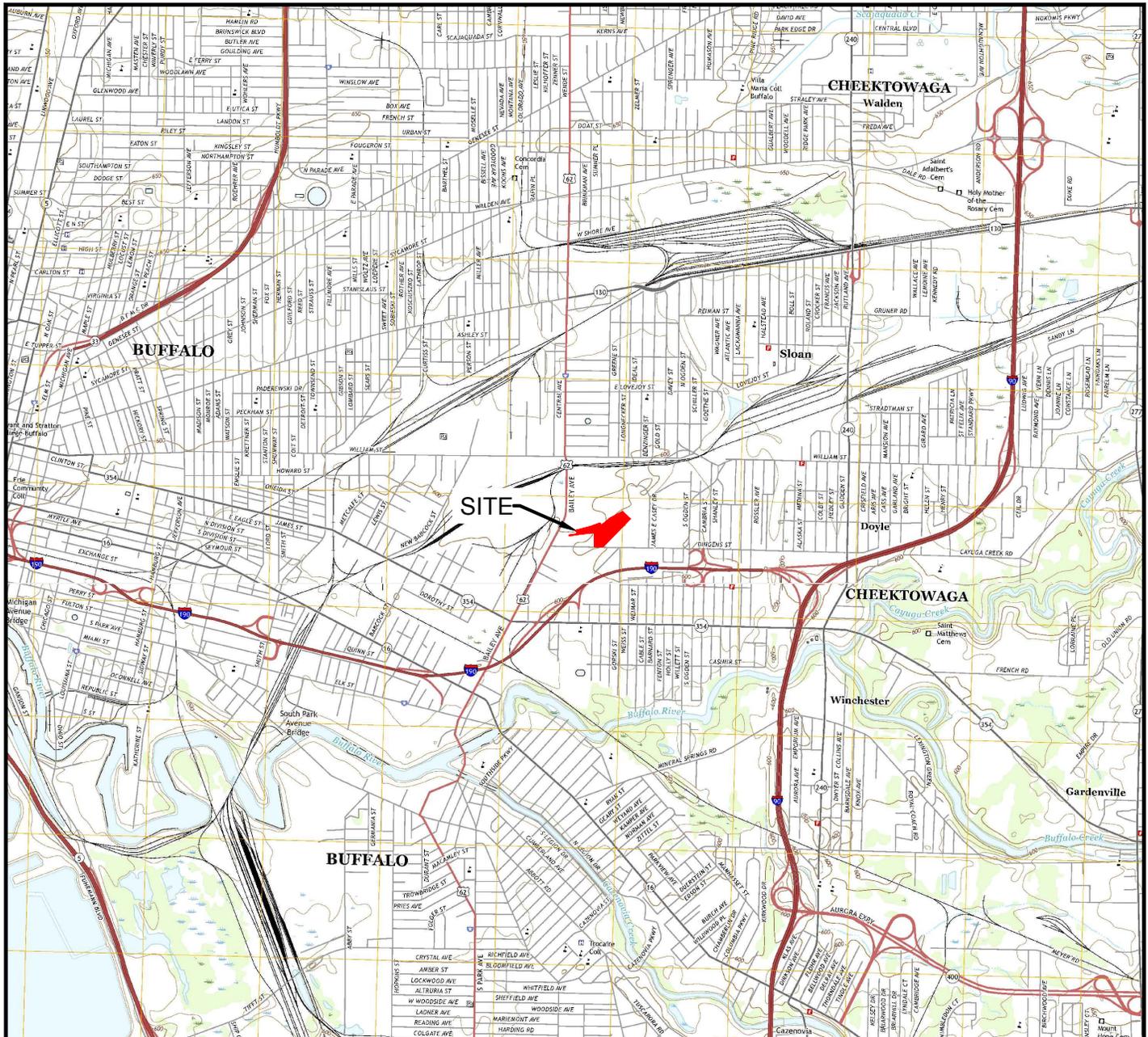
- A Site or area planimetric map showing the parcel.
- A figure showing remediation areas.
- Summaries of unit quantities including volume of soil/fill excavated, disposition of excavated soil/fill, and volume/type/source of backfill.
- New as-built drawings showing hardscapes (building, pavement, sidewalks, etc.) and documentation showing at least one foot of clean soil cover in non-hardscaped areas, if any; these drawings will be incorporated into the SMP.
- Text describing that the remedial activities were performed in accordance with this Work Plan.
- Recommendation to revise the SMP as appropriate based on the redevelopment activities completed.

6.0 REFERENCES

1. Iyer Environmental Group, PLLC. *Site Management Plan, 132 Dingens St. Site, Erie County, Buffalo, NY, NYSDEC Site Number C915263*. July 2016 (Revised October 2016).
2. Iyer Environmental Group, PLLC. *Final Engineering Report, 132 Dingens St. Site, Erie County, Buffalo, NY, NYSDEC Site Number C915263*. October 2016.
3. New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation*. May 2010.
4. Iyer Environmental Group, PLLC. *Remedial Action Work Plan, 132 Dingens St., Buffalo, NY, Site # C915263*. July 2015.

FIGURES

FIGURE 1



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
 World Geodetic System of 1984 (WGS84). Projection and
 1 000-meter grid: Universal Transverse Mercator, Zone 17T
 10 000-foot ticks: New York Coordinate System of 1983 (west
 zone)



QUADRANGLE LOCATION



**2558 HAMBURG TURNPIKE
 SUITE 300
 BUFFALO, NY 14218
 (716) 856-0599**

SITE LOCATION & VICINITY MAP

NOTIFICATION ADDENDUM TO EXCAVATION WORK PLAN

**132 DINGENS STREET SITE
 SITE NO. C915263
 BUFFALO, NEW YORK
 PREPARED FOR
 132 DINGENS ST, LLC**

PROJECT NO.: B0365-019-002

DATE: SEPTEMBER 2019

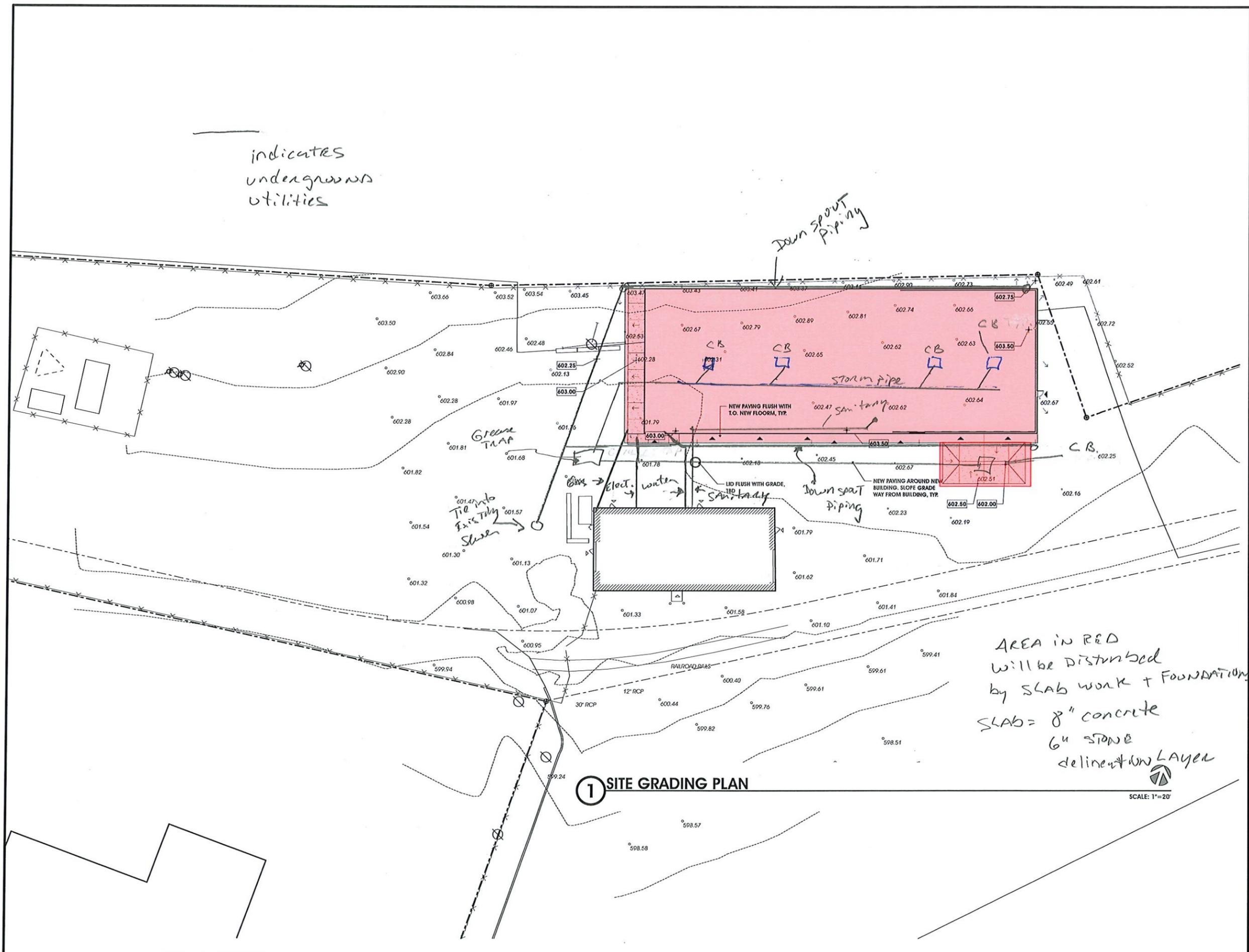
DRAFTED BY: CCB

DISCLAIMER:
 PROPERTY OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC. IMPORTANT: THIS DRAWING PRINT IS LOANED FOR MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY TIME. INFORMATION CONTAINED HEREON IS NOT TO BE DISCLOSED OR REPRODUCED IN ANY FORM FOR THE BENEFIT OF PARTIES OTHER THAN NECESSARY SUBCONTRACTORS & SUPPLIERS WITHOUT THE WRITTEN CONSENT OF BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC.

tcm
architect
Matthew P. Moscati, AIA
Buffalo, New York 14202
716.852.2740
www.tcmarchitect.com

ALL PROJECTS HAVE PROFESSIONAL FIELD DATA & NOTES AND OTHER DOCUMENTS, INCLUDING ALL DOCUMENTS ON ELECTRONIC MEDIA, PREPARED BY TCM ARCHITECTURE, DESIGN & PLANNING, P.C. AS PART OF THE PROFESSIONAL DESIGN SERVICES PROVIDED BY TCM ARCHITECTURE, DESIGN & PLANNING, P.C. SHALL REMAIN THE PROPERTY OF TCM ARCHITECTURE, DESIGN & PLANNING, P.C. AND SHALL BE KEPT IN CONFIDENCE. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF TCM ARCHITECTURE, DESIGN & PLANNING, P.C.

PINTO CONSTRUCTION SERVICES
PINTO MAINTENANCE BLDG.
132 DINGENS ST. • BUFFALO, NY 14206



1 SITE GRADING PLAN

SCALE: 1"=20'

ISSUE	DATE	REMARKS
03	15FEB19	FOR CLIENT REVIEW
04	28AUG2019	FOR CLIENT REVIEW

SITE GRADING PLAN

DRAWN BY: CR SHEET NUMBER: **SP1.4**

SCALE: AS NOTED

DATE: 16JAN2019

JOB NUMBER: 3716

APPENDIX A

SMP APPENDIX C EXCAVATION WORK PLAN

SMP
132 DINGENS ST. SITE

APPENDIX C
EXCAVATION WORK PLAN

Appendix C

132 DINGENS ST. BCP SITE

EXCAVATION PLAN

1. NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner or their representative will notify the NYSDEC. Table 1 includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Appendix A.

TABLE 1: NOTIFICATIONS*

NAME	PHONE/EMAIL ADDRESS
Central Office NYSDEC Representative	TBD
Regional Office NYSDEC Representative	Jaspal Walia (716)851-7220 jaspal.walia@dec.ny.gov
NYSDEC Site Control	TBD

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

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control;
- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120;
- A copy of the contractor's health and safety plan (HASP), in electronic format, if it differs from the HASP provided in Appendix F of this SMP;
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

During development of the site, the Department will be provided with monthly reports. The monthly reports will address handling of any excavated fill and maintenance of the cover system.

2. SOIL SCREENING METHODS

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

Soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal (all industrial/urban fill) and material (underlying native clay, silt, sand) that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. All excavated industrial/urban fill will be properly tested and disposed off-site. Further discussion of off-site disposal of materials and on-site reuse is provided in Sections 6 and 7 of this Appendix.

3. SOIL STAGING METHODS

Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points. Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

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

4. MATERIALS EXCAVATION AND LOAD-OUT

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

Excavated materials may require testing for confirmation and off-site disposal. Pre-characterization of soil in the target excavation areas for landfill parameters may minimize material handling. The sampling frequency and analytical will be as required by the landfill for acceptance. Appendix I provides a field sampling plan and Appendix J provides analytical QA/QC requirements.

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

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

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

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

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

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

5. MATERIALS TRANSPORT OFF-SITE

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

Truck transport route will depend on the landfill accepting the waste material. All trucks loaded with site materials will exit the vicinity of the site using only approved truck routes. The most appropriate route will be used taking into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

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

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site. Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

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

6. MATERIALS DISPOSAL OFF-SITE

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

Industrial/fill, soil and other contaminated materials excavated at this site will be disposed off-site and are not expected to be reused at the site.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

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

7. MATERIALS REUSE ON-SITE

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

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

8. FLUIDS MANAGEMENT

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

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

9. COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the excavation will be backfilled with clean off-site fill meeting DER-10 requirements. The cover system will then be restored in a manner that complies with the Decision Document and the SMP. The new cover system may be crushed stone, asphalt or concrete pavement, clean soil covered sidewalk or concrete. These cover systems are illustrated on Figure 6A of the SMP.

The demarcation layer, consisting of geotextile fabric, will be replaced to provide a visual reference to the top of the remaining contamination zone, the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP. If the type of cover system changes from that which exists prior to the excavation, this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. A figure showing the modified surface and an updated site layout drawing will be included in the subsequent Periodic Review Report and in an updated SMP.

10. BACKFILL FROM OFF-SITE SOURCES

Only pre-tested clean material (e.g. clean soil, crushed stone) from known sources will be imported for use as backfill at this site. A background check will be performed on the source area and the source facility's DOT certificate will be obtained where available. The sampling frequency and analytical parameters for source area materials will follow the NYSDEC's DER-10 guidance document. Imported soil will meet DER-10 requirements for acceptance at a BCP site.

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site. A Request to Import/Reuse Fill or Soil form, which can be found at <http://www.dec.ny.gov/regulations/67386.html>, will be prepared and submitted to the NYSDEC

project manager allowing a minimum of 5 business days for review. Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

Imported material will be stockpiled, if necessary, at the site only over a clean ground surface free of potential contamination. An HDPE liner will first be placed over the ground surface before soil placement. The stockpile will be covered with HDPE liner and secured around the perimeter with erosion control to prevent runoff through the stockpile.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

11. STORMWATER POLLUTION PREVENTION

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC. All necessary repairs shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

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

Silt fencing or hay bales will be installed around the entire perimeter of the construction area. All undercutting or erosion of the silt fence toe anchor will be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

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

12. EXCAVATION CONTINGENCY PLAN

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

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

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

13. COMMUNITY AIR MONITORING PLAN

Ambient air quality monitoring will follow the NYSDOH's Community Air Monitoring Plan., This will include real time air monitoring for particulates during intrusive activities, and contingency measures for addressing situations during excavation activities where dust levels exceed background levels. The locations of air sampling stations will be specific to the type of excavation activity (utilities, foundation, etc.) and based on generally prevailing wind conditions. The locations will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least two downwind monitoring stations. No sensitive receptors have been identified in the immediate vicinity of the site.

Exceedances of action levels listed in the CAMP will be reported to NYSDEC and NYSDOH Project Managers.

14. ODOR CONTROL PLAN

No nuisance odors were observed or reported during intrusive remediation work at this site, and no significant odors are associated with the industrial/urban fill. Regardless, if nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the remedial party's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils; [add other elements as appropriate]. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods [add others as necessary].

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

15. DUST CONTROL PLAN

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved through the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Clearing and grubbing of larger sites will be done in stages to limit the area of exposed, unvegetated soils vulnerable to dust production.
- Gravel will be used on roadways to provide a clean and dust-free road surface.

- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

16. OTHER NUISANCES

A plan for rodent control, if warranted, will be developed and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work. A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

17. REPORTING

All intrusive work performed during site development and pursuant to this Excavation Plan will be reported with the following information:

- Date of event or reporting period;
- Name, company, and position of person(s) conducting activities;
- Detailed description of work performed, including location and areal extent of excavation, site re-grading, intrusive elements or utilities installed below the soil cover, estimated volumes of contaminated soil excavated and any work that may impact the engineering control;
- A summary of environmental conditions encountered in work areas, including the nature and concentration levels of contaminants of concern, and any pre-construction sampling;
- Description of the cover system replaced/repared.
- Disposal facilities for generated waste streams, along with all test results for landfill parameters and landfill approval letter;
- Sources of any backfill, along with all chemical testing results.
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet);