OU3 Corning-Painted Post School District Soil Cover
FOCUSED SOIL REMOVAL WORK PLAN

Study Area

Corning, NY

NYSDEC Project ID 851046

October 2020

Prepared for:

Corning Incorporated
Corning, New York

Prepared by:

AECOM Technical Services, Inc.
Boston, Massachusetts 02110

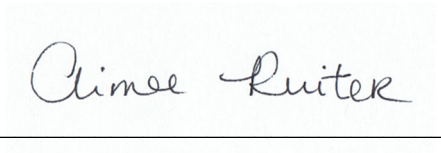
Project Number 60599493

Certifications

I, Aimee Ruiter, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Work Plan was prepared in accordance with all applicable standards and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Executed on the 2nd day of October 2020

AECOM Technical Services, Inc.



_____ (Signature)

Aimee Ruiter, P.E.

Project Manager

1. INTRODUCTION

This Focused Soil Removal Work Plan has been prepared to address semi-volatile organic compounds (SVOCs) identified in a soil sample collected in the School/Community Use Areas in Operable Unit 3 (OU3) of the Study Area in Corning, New York. Activities described in this work plan will be conducted in accordance with the Interim Site Management Plan (ISMP) for Study Area – Operable Unit 3 (School and Community Use Areas) (AECOM, 2020b), and will meet the objectives of the Decision Document for Study Area Operable Unit (OU) 3 (NYSDEC, 2017a).

Soil sampling was completed in July 2020 in accordance with the approved Corning-Painted Post School District Property Soil Cover Sampling Work Plan (AECOM, 2020a). The objectives of the sampling were to gather additional data to determine if the existing 1-foot cover at the Corning-Painted Post School District (CPPSD) property meets the restricted residential soil cleanup objectives (SCOs). A Data Usability Summary Report (DUSR) has been drafted that summarizes the results of the soil samples collected in July 2020 (AECOM, 2020c). Focused soil remediation is required to address exceedances of the DER-10 Appendix 5 Restricted Residential criteria identified during the design-phase investigation.

Corning Incorporated has entered into an Order on Consent and Administrative Settlement (NYSDEC, 2017b) with the New York State Department of Environmental Conservation (NYSDEC) to perform remedial activities and additional characterization activities within the Study Area. This Focused Soil Removal Work Plan has been prepared by AECOM Technical Services, Inc. (AECOM) on behalf of Corning Incorporated.

The Study Area is NYSDEC Project ID No. 851046 located in the City of Corning, New York, as illustrated on Figure 1-1. In general, the Study Area is bounded by the Chemung River to the south; Post Creek and Interstate 86 to the east and north; and the Guthrie Medical Center, the City of Corning Fire Department, and Centerway to the west. The Study Area is separated into five operable units (OUs), based on location and land use, to assist in advancing properties through the remedial process. The five OUs in the Study Area are identified as follows: the Residential Area (OU1), the

Residential Area at the Eastern End of Corning Boulevard (OU2), School/Community Use Areas (OU3), Flood Control Areas (OU4), and the Residential Expansion Area (OU5). The Study Area and OUs are depicted on Figure 1-2. This Focused Soil Removal Work Plan applies only to a limited portion of OU3.

2. SEMI-VOLATILE ORGANIC COMPOUNDS SAMPLE EXCEEDANCES

A total of 65 soil samples and their associated quality control (QC) samples were collected from the Corning-Painted Post School District property on July 21, 2020 (37 samples) and July 22, 2020 (28 samples) in areas where the School District placed cover soil and a demarcation layer as part of a capital improvement project and where characterization activities were not conducted under the Study Area Work Plan. Analytical results from soil samples indicate that only one sample exceeded NYSDEC DER-10 Appendix 5 Restricted Residential Use Standards (NYSDEC, 2010), which is the applicable standard as defined in the Decision Document (NYSDEC, 2017a). The soil sample was collected from 0 to 1 foot below ground surface (bgs) at CPPSS04 and benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were detected at concentrations greater than their respective SCOs. This sample location, which is the focus of this work plan, is depicted on Figure 2-1 and is located in a portion of a grassy island of the parking area. A summary of the exceedances identified in CPPSS004 is provided in Table 1 below. Additional soil results are included in the DUSR for this sampling effort (AECOM, 2020c).

Table 1: SVOC Exceedances in Sample CPPSS004

SAMPLE	PARAMETER	DER-10 APPENDIX 5 RESTRICTED RESIDENTIAL SCO (MG/KG)	RESULT (MG/KG)
CPPSS004-0-1-20200721	BENZO(A)ANTHRACENE	1	**1.2**
CPPSS004-0-1-20200721	BENZO(A)PYRENE	1	**1.2**
CPPSS004-0-1-20200721	BENZO(B)FLUORANTHENE	1	**1.5**
CPPSS004-0-1-20200721	CHRYSENE	1	**1.2**
CPPSS004-0-1-20200721	INDENO(1,2,3-C,D)PYRENE	0.5	**0.62**

Notes: MG/KG = milligrams per kilogram SCO = Soil Cleanup Objectives

3. FOCUSED SOIL REMOVAL ACTION

3.1 MOBILIZATION AND WORK AREA SETUP AND MOBILIZATION

Soil will be removed from the area depicted in Figure 2-1 to a depth of 1-foot below grade.

A pre-mobilization meeting will be held and attended by NYSDEC, Corning Incorporated, Corning Incorporated's contractor, and AECOM personnel.

A utility markout was completed on September 3, 2020. There are no identified utilities within the planned 1-foot excavation.

Corning Incorporated's contractor will establish a temporary equipment staging area in the parking area in coordination with the property owner. Security fencing and/or safety fencing will be placed, as necessary, to isolate work areas. The contractor will perform utility clearance including contacting Dig Safely New York and using ground penetrating radar (GPR) prior to beginning excavation.

Air monitoring will be performed during the work in accordance with the approved Community Air Monitoring Plan (CAMP) (included in Appendix F of the ISMP). All work activities will be completed in accordance with the approved Study Area Health and Safety Plan (HASP) (included in Appendix E of the ISMP).

3.2 REMOVAL ACTIVITIES

The SVOC exceedances will be removed from the horizontal limits of removal depicted in Figure 2-1. The focused soil removal will extend within the landscaped area from the clean sample location CPPSS003 to the concrete walkway adjacent to the clean sample location CPPSS005. The area of excavation measures 2,142 square feet. Removal will be completed by excavating to a depth of 12 inches (excluding the vegetative layer) over the entire delineated area.

If a layer of ash, brick, and/or glass is observed within the 1-foot excavation, it will be removed and properly disposed of. If a layer of ash, brick, and/or glass is observed to extend beyond the proposed

horizontal limits, the excavation will continue horizontally within the landscaped area until the layer of ash, brick, and/or glass has been removed. The excavation will not extend horizontally into existing concrete walkway or asphalt-covered areas. Unless required to accommodate the restoration of tree plantings or signage, as noted below, the excavation will not extend deeper than one foot. If a layer of ash, brick, and/or glass is observed below one foot, a demarcation layer will be placed at the bottom of the excavation.

The existing concrete walkway, asphalt-covered areas, and granite curbing will be protected in place, in accordance with the ISMP. The means and method of protection of these hardscape features will be determined by the contractor.

Existing trees will be removed during the excavation activities. Excavation may need to be deeper to accommodate the root ball of replacement tree plantings. Any over-excavation for the plantings will be completed at the same time as the soil removal.

Existing signs will be removed and stored during the excavation activities. Excavation may extend deeper than the planned 1 foot excavation to accommodate the restoration of the sign posts. Any over-excavation for the signs will be completed at the same time as the soil removal.

The duration of excavation is anticipated to be two days. The excavated material may be placed in a roll-off at the work site, placed in a temporary stockpile within the excavation footprint, or be direct-loaded into trucks for off-site disposal. Excavated material is planned to be transported for off-site disposal by the end of the second day of excavation.

Sampling for disposal profiling took place the week of August 31st and included the collection of an in situ composite sample and an in situ discrete sample prior to excavation activities, to facilitate landfill pre-acceptance of material that will be excavated and direct-loaded for disposal. Disposal profile samples excluded the vegetative layer (AECOM, 2020a). Only one composite sample and one discrete sample is required since the volume of excavated material is less than 100 cubic yards. Each in situ discrete disposal profile sample was collected from the 12 inch anticipated excavation depth interval. The disposal profile samples were analyzed for Toxicity Characteristic Leaching

Procedure (TCLP) Resource Conservation and Recovery Act (RCRA) metals, total metals, total SVOCs, TCLP pesticides and herbicides, TCLP volatile organic compounds (VOCs), and total VOCs. Validated disposal profile data will be provided to NYSDEC once validation is complete.

Excavated materials will be transported and disposed in accordance with all applicable federal and state regulations. Based on the disposal profile sampling results, the excavated material will be handled as non-hazardous waste.

Equipment used during removal activities will be dry decontaminated prior to departure from the work area, transported to the Staging Area, and then wet decontaminated. Decontamination fluids will be collected within the decontamination pad, characterized, and then transported for disposal. Corning Incorporated's representatives and representatives from NYSDEC will provide oversight during the removal of SVOC-impacted soil.

3.3 RESTORATION

Backfilling activities will immediately follow removal activities. The excavated areas will be backfilled with NYSDEC-approved granular backfill material to within 6 inches of the surface and hand-tamped or compacted with small equipment to achieve compaction. The final 6 inches will be restored with 6 inches of NYSDEC-approved topsoil.

Sod or grass seed will be placed to match the existing conditions. The existing four flowering pear trees (pyrus calleryana) will be replaced in-kind or with an approved equivalent. Tree health will be monitored as part of the inspections and trees will be replaced as necessary.

The existing signs will be replaced in their current locations. Sign installation method and depth will be determined in the field to match existing conditions.

4. DOCUMENTATION

The location and extent of removal activities and restoration will be documented by a New York State licensed land surveyor. Photographs will also be taken to document the removal and restoration activities. A letter report, or attachment to the Construction Completion Report, will be

prepared and submitted to NYSDEC summarizing the work and documenting the locations and extent of removal activities, restoration, and transportation and disposal of the excavated material.

All areas associated with the Focused Soil Removal Work Plan will be monitored as part of the on-going soil cover monitoring conducted by Corning Incorporated to confirm that cover is still in place and intact. Monitoring will be conducted on a monthly basis until the Construction Completion Report is approved and finalized (Weston, 2020). Monitoring frequency will then transition to annually, in compliance with the ISMP.

5. SCHEDULE

Work activities described herein will begin within 30 days following NYSDEC approval and CPPSD concurrence on this Focused Soil Removal Work Plan. This work is anticipated to be conducted during the holiday weekend in October, from October 9 through October 12, 2020. Work will be conducted during the holiday weekend to avoid disruption to school activities. If work cannot be completed over the holiday weekend, a revised schedule and sequencing will be provided to NYSDEC for their concurrence. All field activities will be coordinated with the property owner.

6. REFERENCES

AECOM, 2020a. *Corning-Painted Post School District Property Soil Cover Sampling Work Plan.* June 2020.

AECOM, 2020b. *Interim Site Management Plan, Study Area – Operable Unit 3 (School and Community Use Areas), Steuben County, Corning, New York.* July 2020.

AECOM, 2020c. *Data Usability Summary Report Corning-Painted Post School District Property Soil Cover Sampling.* (DUSR-055). August 2020.

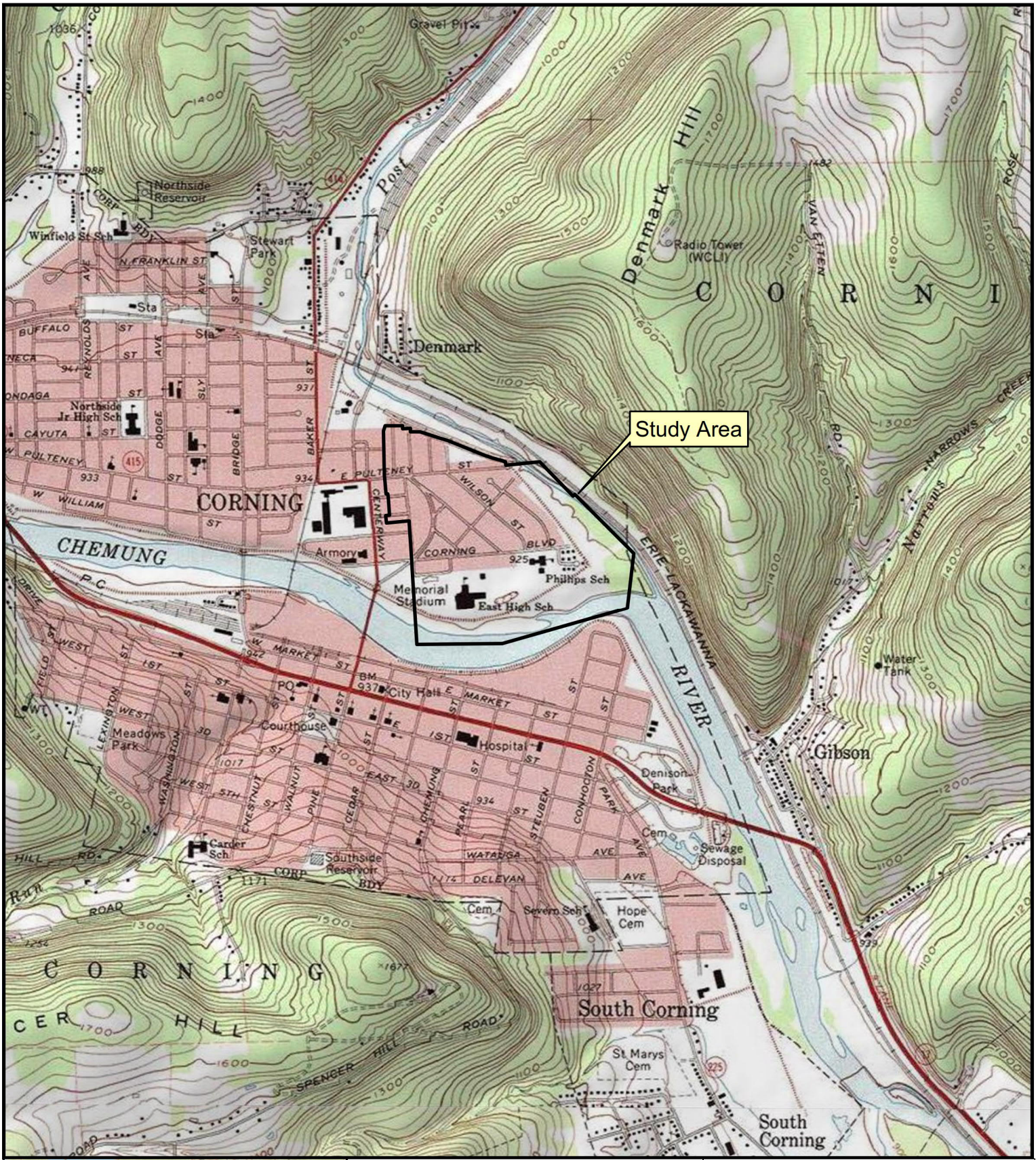
NYSDEC, 2010. DER-10 *Technical Guidance for Site Investigation and Remediation.* May 2010.

NYSDEC, 2017a. *Decision Document, Study Area Operable Unit (OU) 3, Corning, Steuben County, New York, Site ID No 851046.* July 2017.

NYSDEC, 2017b. *Order on Consent and Administrative Settlement*, *Index No. CO 8-20171204-140, Study Area, Corning, Steuben County, New York, Site ID No. 851046.* December 2017.

Weston, 2020. *Interim Remedial Measures Construction Completion Report, Corning-Painted Post School District Property*. May 2020.

FIGURES



USGS 7.5 Minute Quadrangle Corning NY, 1971

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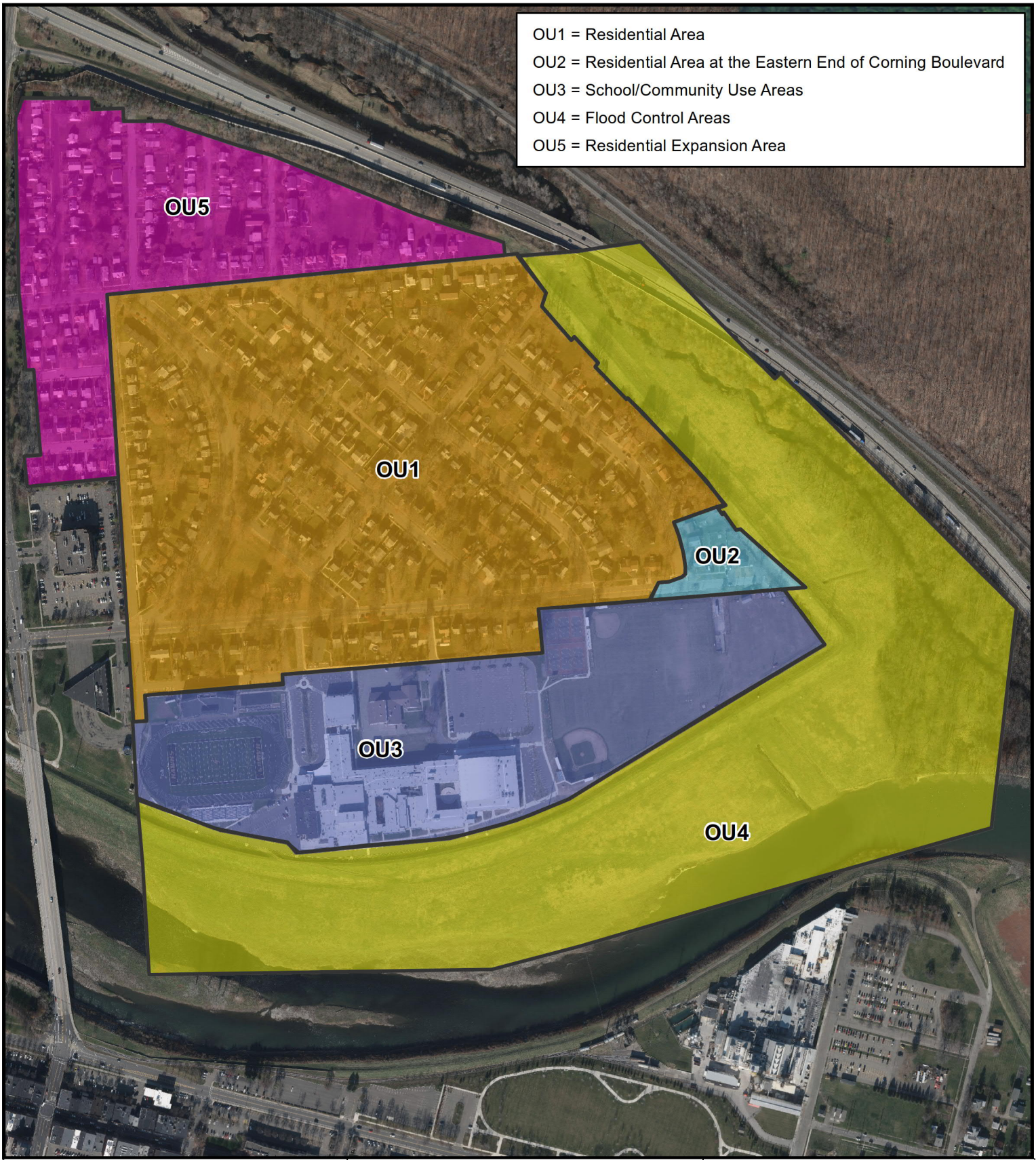
Figure 1-1
Location of Study Area

Corning, NY

Document Name: Site_Location.MXD



Legend

Operable Units

- OU1
- OU2
- OU3
- OU4
- OU5

N
W E
S

0 250 500 Feet

Base Imagery:Robinson Aerial Imagery, Dec 2015
Coordinate System: NAD 1983 State Plane
New York Central Feet
Datum: NAD83. Units: Feet

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Figure 1-2
Study Area Operable Units

Corning, NY

Document Name: Study_Area_OU_no_labels.MXD

CPPSS003

CPPSS004

Concrete Walkway

CPPSS005

CPPSS006

Legend

- No Exceedances of SCOs
- Exceedance one or more SCOs
- Proposed Soil Removal Area
- Grid (30x30ft)

SCOs - New York State Department of Environmental Conservation (NYSDEC) Subpart 375-6 Remedial Program Restricted Residential Soil Cleanup Objectives

NOTES:
Base Image: Hunt Engineering, Febuary 25, 2015
Coordinate System: NAD 1983 State Plane New York Central Feet
Datum: NAD83. Units: Feet

Study Area
Corning NY

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Figure 2-1
Proposed Focused Soil Removal Area
Corning-Painted Post School District Property

N

0 5 10 15

Document Name: Soil_Cover_Sampling2020-0902.MXD

10/02/2020