

McCaffrey Street Update

DECEMBER 2022





Agenda

- 1. Overview of Regulatory Process and Operable Units
- 2. OU-02 Status Update
- 3. OU-01 Current Investigation
- 4. OU-03 Recent and Proposed Investigation



Operable Units (OUs)

- **OU-01*:** 6.41–acre McCaffrey Street Site and groundwater from the Site
- **OU-02:** municipal water supply
- **OU-03:** air deposition and off-site disposal (investigation of soil, groundwater, surface water, and sediment)

**currently defined geographically by the approximate municipal water supply area*



OU-02 Municipal Water Supply

- Record of Decision
 - Issued by NYSDEC
- Selected remedy
 - New water supply wells and transmission lines to the water treatment plant
- Schedule
 - Estimated 2-to-3-year implementation



OU-02 Geotechnical Investigation

Objective – evaluate a potential alternative path for the watermain line described in the OU-02 ROD

Scope – topographic survey, utility survey, up to 17 shallow borings, and 2 deep borings

Sampling – geotechnical laboratory analysis of selected samples

Schedule – start in December 2022



OU-01 Status

- Baseline Ecological Risk Assessment
 - Draft submitted to NYSDEC and USEPA for review
- Baseline Human Health Risk Assessment
 - Work continues
- Groundwater treatment system
 - Operation continues
 - More than 12 million gallons treated to date
- Additional investigation
 - Work plan addendum approved August 2022
 - Field work ongoing



IRM treatment system installed at McCaffrey Street facility



Current OU-01 boundary and existing sample locations

OU-01 Work Plan Addendum (Aug. 2022)

- Presents current understanding of site conditions
- Presents concentration maps using existing analytical data from more than
 - 2,200 groundwater samples
 - 1,600 soil samples
 - 120 surface water samples
 - 60 sediment samples
- Identifies additional investigation to support future decisions



OU-01 Additional Investigation - Groundwater and Soil

- Installation and sampling of 5 groundwater monitoring well nests (up to 10 monitoring wells)
- Soil sampling at 9 locations (27 soil samples)



Monitoring well installation requires drilling

- Schedule
 - Obtaining access to private properties underway
 - Location selection with NYSDEC underway
 - Field work expected to begin January 2023



Soil cores logged during drilling

OU-01 Additional Investigation - River

River survey and sampling conducted from boat

- 4 sections of Hoosic River within and near Village surveyed
- Surface water samples (up to 24) will be collected from the same sections of river
- Schedule
 - Access to private properties completed
 - Survey completed Nov. 2022
 - Sampling to be completed based on safe work conditions (flow, temperature, etc.)



Manhole removal for survey and sampling

OU-01 Additional Investigation - Municipal Sewer

- Collect additional sewer information (location, elevation, condition, etc.)
- Sample throughout piping network at major branches (~10 samples)
- Sample certain sections to evaluate potential groundwater inflow and transport
- Schedule
 - Seeking additional sewer information
 - Survey work scheduled for January 2023
 - Sampling plan and field work to follow



Municipal Sewer Areas

OU-03 Overview and Status

- Regional Air Deposition Study (Phase I)
 - Data Summary Report submitted July 2021
- Supplemental Scope of Work (Phase II)
 Data Summary Report submitted Sept. 2022
- Regional Surface Water and Sediment
 - Data Summary Report submitted July 2022
- OU-03 Remedial Investigation (RI) Work Plan
 - Submitted Oct. 2022 for NYSDEC and USEPA review



Sampling sectors for Regional Air Deposition Study

OU-03 Soil Investigation

Objective - Determine if air deposition is observable in soils surrounding the Village of Hoosick Falls

Scope - 321 soil samples from 107 locations (2 phases; up to 10,000 feet from Village boundary)

Sampling – Locations systematically selected with NYSDEC input; 3 depth intervals



OU-03 Preliminary Findings

- Results used to inform future investigations
- Graphic 1 Some results consistent with deposition from source(s) within the Village (for example, decreasing concentration with distance downwind)
- Graphic 2 Some results not consistent with air deposition from a single source within the Village (for example, increasing concentrations with distance upwind)



OU-03 Surface Water and Sediment Investigation

Objective - characterize PFAS in the Hoosic River and its major tributaries (baseflow conditions) and screeninglevel evaluation (flowing streams, springs, ponds, lakes)

Scope – 23 sampling locations

Sampling – Surface water and sediment sampling across variety of water bodies and flow conditions



OU-03 Surface Water and Sediment Preliminary Findings

- Results used to inform future investigations
- Baseflow sampling yielded expected results and supported current understanding of regional conditions (e.g., drainage areas considered)
- Screening level sampling yielded inconsistent results (unclear association with sources in Village)



OU-03 Proposed Additional Investigation Activities - Soil and Groundwater

- Shallow soil sample 20 locations and 3 depths (60 samples)
- Deep soil sample 14 locations to groundwater (50+ soil samples)
- Groundwater sample groundwater at 14 new locations



Shallow soils sampled with hand tools



Groundwater and deep soil sampling requires drilling

OU-03 Proposed Additional Investigation Activities - Surface Water and Sediment

 Resample – surface water under high-flow conditions at 10 previously sampled "baseflow" locations (10 samples)

- Surface water sample surface water at 9 new stream locations under baseflow and higher flow conditions (18 samples)
- Sediment sample sediment at 9 new locations



Surface water

sampling

Additional surface water and sediment sampling locations

Summary

• OU-01 investigation underway

- River sampling
- Well installation and soil sampling
- Sewer survey and sampling
- Field work underway through Spring 2023
- OU-02 geotechnical investigation
 - December 2022 / January 2023
- OU-03 investigation
 - Work plan under agency review
 - Field work expected Spring 2023

