



Upper Hudson River Long-Term Monitoring

Ongoing Long-Term Monitoring Activities



- Remedy is two parts: dredging and monitored recovery
- Purpose: monitor water, fish and sediment to track recovery of the river over time as it relates to project targets and goals
- Overview of long-term monitoring program activities
 - Water Column (on-going)
 - Routine sampling at Bakers Falls, Rogers Island, Thompson Island Dam, Schuylerville and Waterford
 - High flow sampling at Waterford and Schuylerville
 - Fish
 - Spring and fall collection scheduled annually
 - 2023 spring and fall collection completed – laboratory testing underway
 - EPA oversight of the laboratory

Ongoing Long-Term Monitoring Activities



- Overview of long-term monitoring program activities (cont'd)
 - Sediment
 - Ongoing evaluation of recently deposited sediment sample results
 - Next surface sediment sampling event scheduled for 2026
 - Caps
 - Bathymetric surveys of engineered caps and the “select areas” in the deeper-water areas was performed early in 2023 **Bathymetric surveys are used to measure the depth of a water body and to map the underwater features.*
 - Bathymetric surveys will continue once Submerged Aquatic Vegetation (SAV) has gone dormant for season



Update on the 2022 Recently Deposited Sediment Sampling

Recently Deposited Sediment Sampling Program



- Purpose - to track changes in recently deposited sediments over time
- Scope
 - Total 90 samples; 30 samples (0-2 cm) per river section
 - All samples analyzed for various radionuclides (Be-7, Cs-137, K-40)
 - A subset of recently deposited sediment, 15 per river section, analyzed for PCBs
- Status
 - First sampling event conducted in May-June 2022
 - EPA evaluating radionuclide data
 - Fifteen initial samples identified for PCB analysis
 - Waiting for PCB results
 - Additional PCB results may be run once initial results analyzed





Update on the 2023 Passive Sample Special Study in the Upper River

Passive Sampler Special Study - Overview



- Purpose - to understand how PCB concentrations change in the water column from upstream to downstream primarily in River Section 1 and 2
- Scope
 - Deployed Low-Density Polyethylene (LDPE) samplers across 12 transects (5 in RS1, 4 in RS2, and 3 in RS3)
 - Analyze samples for PCBs
- Status
 - 37 LDPE samplers deployed on July 25, 2023 and retrieved on September 12-13, 2023
 - Waiting for PCB results from laboratory
 - Data evaluation will inform next step



Anchor and buoy assembly for low-density polyethylene deployment



Update on Other Studies in the Upper River

Summary of Other Studies



- Rogers Island High Flow Sampling
 - Some high flow samples have been collected at Rogers Island - more data may be needed
 - EPA evaluating results of existing data – will determine if additional sampling is necessary
- Particulate Organic Carbon (POC) and Dissolved Organic Carbon (DOC) study
 - Total Organic Carbon (TOC) was measured during 2022 water column sampling (POC was not available from known laboratories in 2022)
 - EPA is evaluating results to determine if additional POC/DOC data should be collected
- Mohawk River
 - Monthly samples collected between April to November in 2022
 - EPA evaluating results



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*Updated web addresses for EPA site webpage and CAG webpage:

<http://www.epa.gov/hudsonriverpcbs>

<https://hudsoncag.wspis.com>