



**US Army Corps
of Engineers®**

Eighteen Mile Creek AOC Data Analysis

AOC/RAP technical assistance

Project Location: Eighteen Mile Creek originates near the City of Lockport in Niagara County, NY and flows north to Lake Ontario at Olcott harbor. Eighteen Mile Creek was named an Area of Concern under the Great Lakes Water Quality Agreement of 1987. The Eighteen Mile Creek AOC extends from Burt Dam on the upstream side to Olcott Harbor at Lake Ontario on the downstream side.

Description of Problem: The Eighteen Mile Creek AOC overlaps with the Eighteen Mile Creek Superfund Site. The Superfund site consists of contaminated sediments, soil and groundwater associated with former industrial use of the land within the upstream reaches of the watershed. US EPA is addressing the Superfund Site in phases, however immediate obstacles exist towards the removal of Beneficial Use Impairments (BUI's) in the overlapping Area of Concern. These obstacles included documentation of elevated contaminant of concern levels within the water without a direct source correlation.



Proposed Project: Through an assessment of historic data collected in the AOC and overlapping Superfund site, this project will seek to determine what data gaps exist relative to contaminants of concern within the AOC. Following an assessment and mapping of existing data and currently ongoing or planned sampling efforts, USACE will create a report of recommendation to US EPA for future sampling or management actions. The project involves frequent coordination with stakeholders within the AOC Remedial Advisory Committee, Superfund program, and federal partners to inform recommendations and elevate awareness of sampling efforts. A Phase II effort will undertake sampling of the water column in the AOC to assist in quantifying risks to biota within the AOC and to further refined contaminant source data.

Partners and Collaboration: US EPA, AOC RAC, NYSDEC, USGS, ERDC, EPA Superfund,

Project Benefits: This project will determine possible actions to be taken to further identify character and source of contaminants of concern found within the AOC. This effort will contribute necessary data towards management actions required to remove BUI's with the Eighteen Mile Creek AOC.



Project Status: The Phase 1 data synthesis report was submitted as final in June of 2020. Phase II sampling is complete as of March 2021. The Phase 2 SPMD sampling report was completed in December 2021 and is being shared with the USEPA Great Lakes and Superfund programs. Technical assistance is being provided to AOC stakeholders in their analysis of BUI's.

Estimated Project Costs	
Federal	\$155,000
Non-Federal	\$0
Total	\$155,000

Project Milestones	
Data Gap Analysis and partner coordination	AUG 2019(A)
Data Synthesis and Reporting	DEC 2019(A)
Phase 2 High Flow Sampling	MAR 2021(A)
Phase 2 Sampling Report	DEC 2021 (A)
Stakeholder BUI Tech Assistance	SEP 2022

Point of Contact
Timothy Noon (716) 879-4261 Timothy.W.Noon@usace.army.mil

