

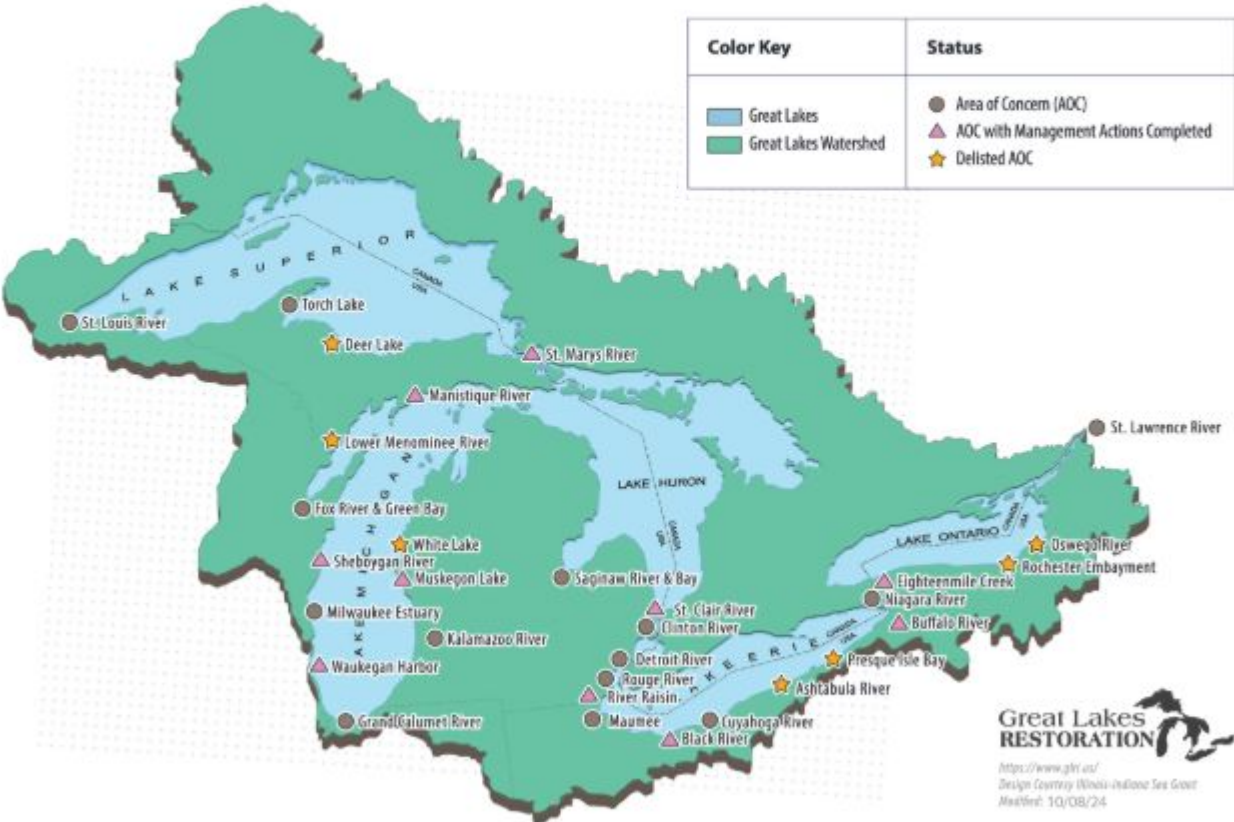
**METROPARKS  
TOLEDO**

Metroparks Toledo

- A Design Build Project with  
Biohabitats and  
Meadville Construction

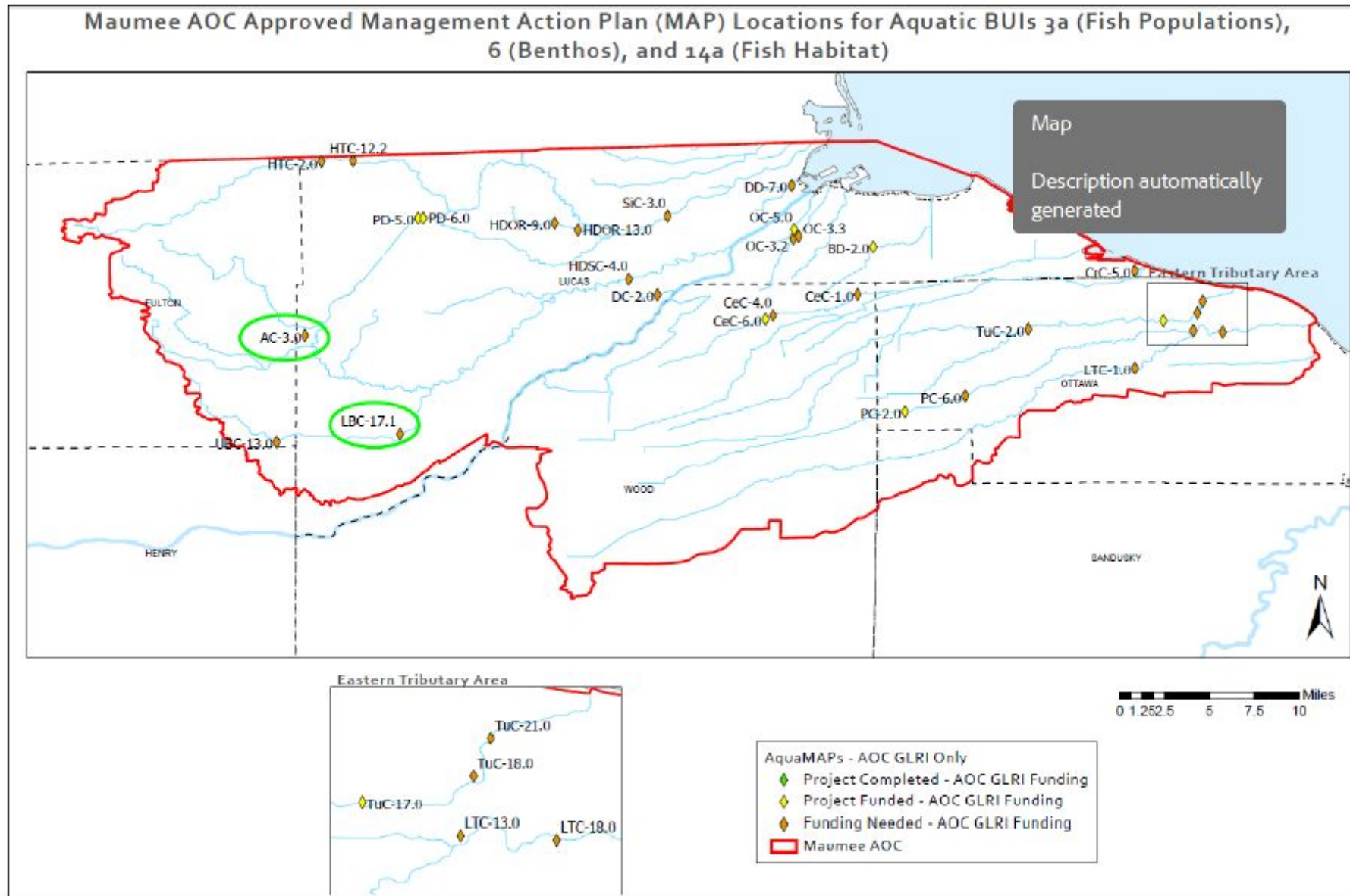
# USEPA, Great Lakes Restoration Initiative: A commitment to improving the quality of the Great Lakes.

## U.S. Great Lakes Areas of Concern



Metroparks received \$950,000 for improvements along Blue Creek and Neis Ditch.

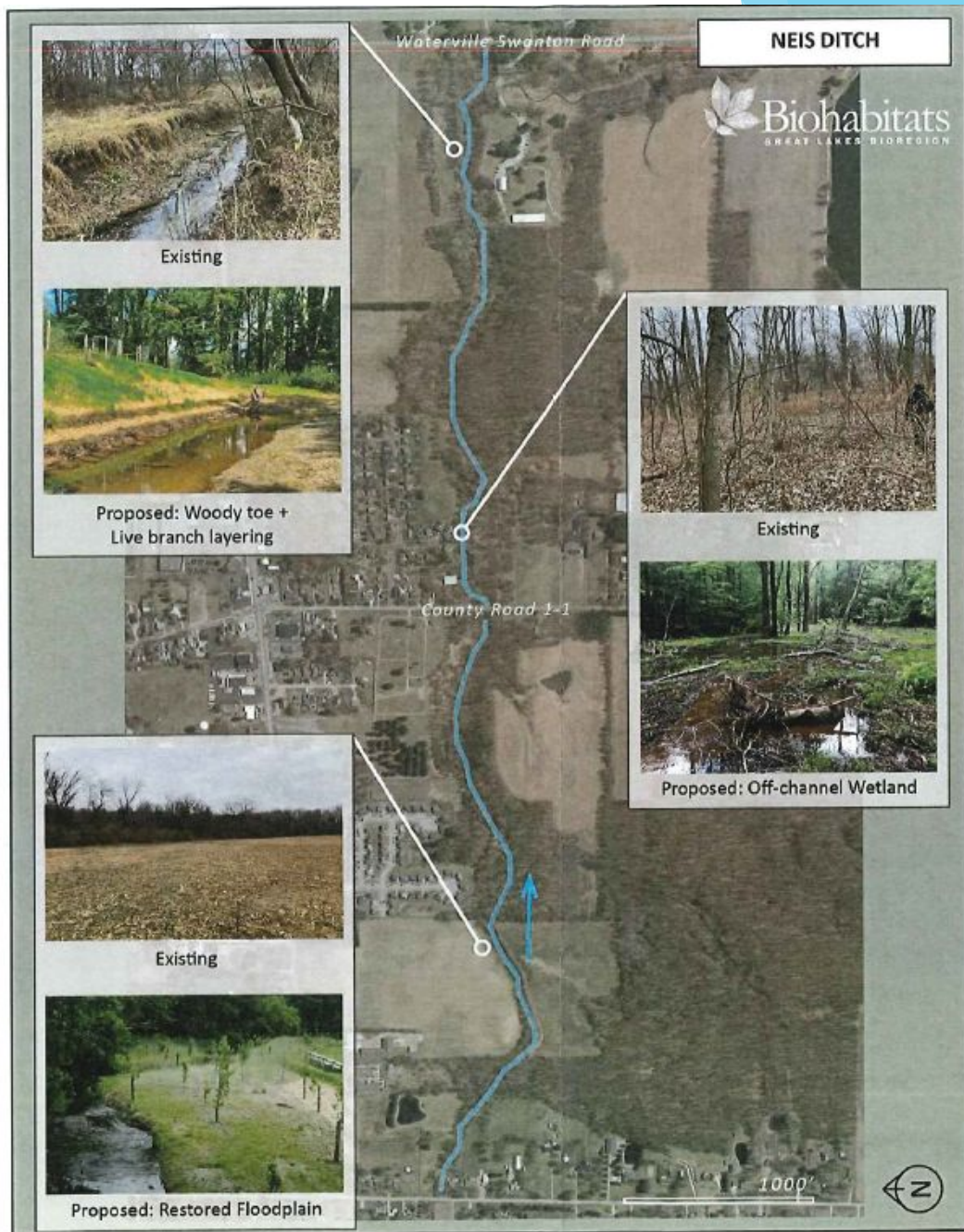
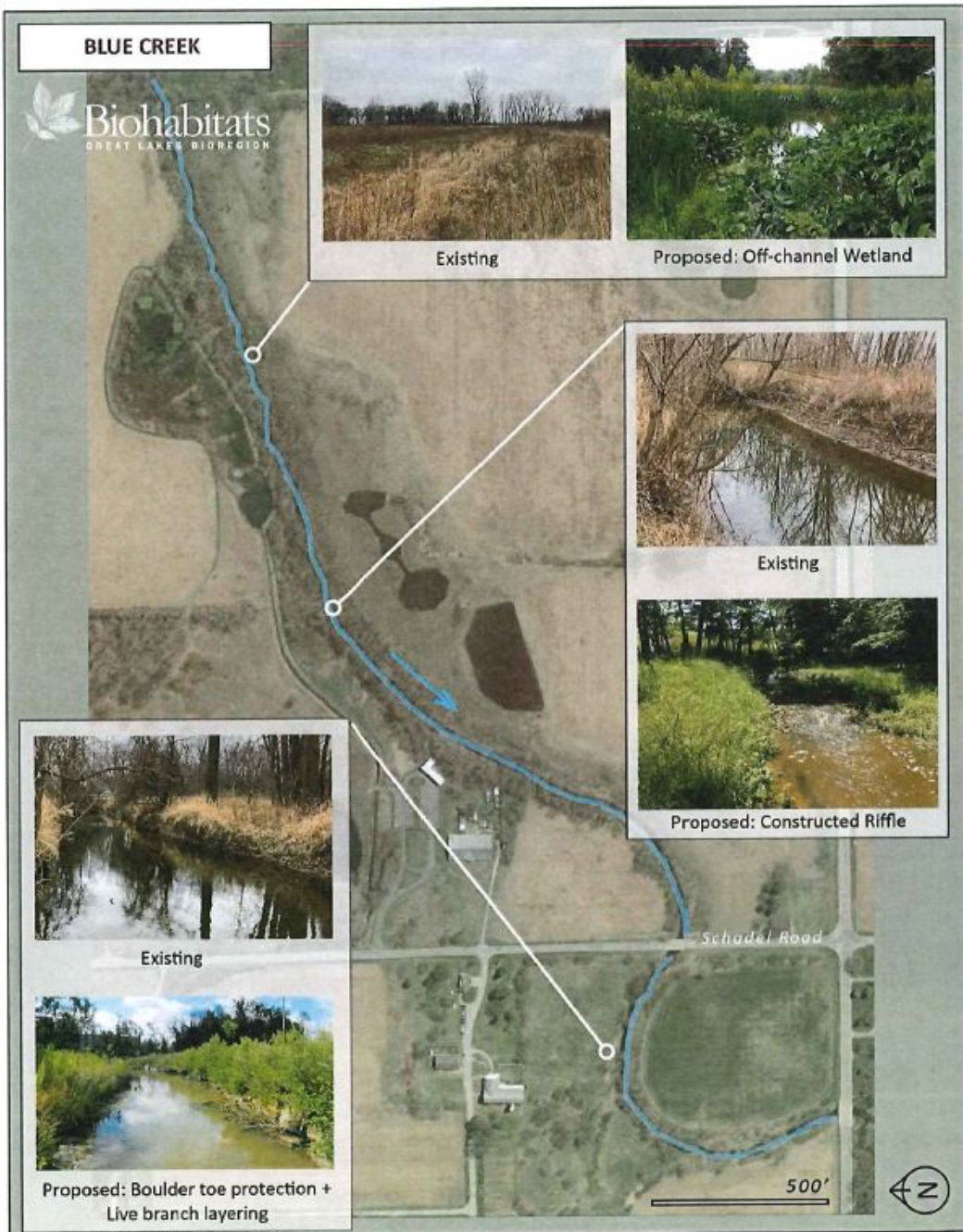
# Metroparks Projects at Oak Openings Preserve and Blue Creek Metropark



# Goals of Metroparks Blue Creek and Neis Ditch Restorations

Address beneficial use impairments (BUIs): Degraded Fish and Wildlife Populations, Degredation of Benthos, Loss of Fish and Wildlife habitat.

- Stabilize 1450ft of streambank and improve channel habitat
- Develop pool and riffle habitat
- Plant native shrubs and trees
- Expand floodplain along 1000ft of stream
- Restore riparian forest through invasive plant removal



## Permitting and Coordination Challenges

- NRCS Wetland Reserve Program- Blue Creek
- Private Lands - Neis Ditch
- Village of Swanton - Neis Ditch

**RESTORATION IN PROGRESS**

Blue Creek Stream and Habitat Restoration

FALL 2024 – SUMMER 2025

Metroparks Toledo has received a grant from the U.S EPA through the Great Lakes Restoration Initiative to improve this section of Blue Creek within Blue Creek Metropark. Blue Creek is located in the Maumee River watershed and implementation of this project is a priority aquatic community restoration in the Maumee Area of Concern.

**PROJECT FEATURES & BENEFITS:**

- Improve streambank stabilization and reduce erosion
- Improve water quality
- Increase diversity and quality of instream habitat
- Development of riffle/pool habitats
- Improve habitat for benthic and fish communities
- Increase and enhance native forested floodplain habitat

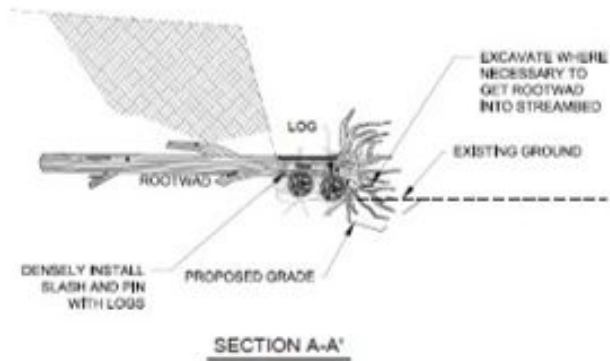
METROPARKS TOLEDO | Great Lakes RESTORATION | Maumee AOC | EPA | Biohabitats



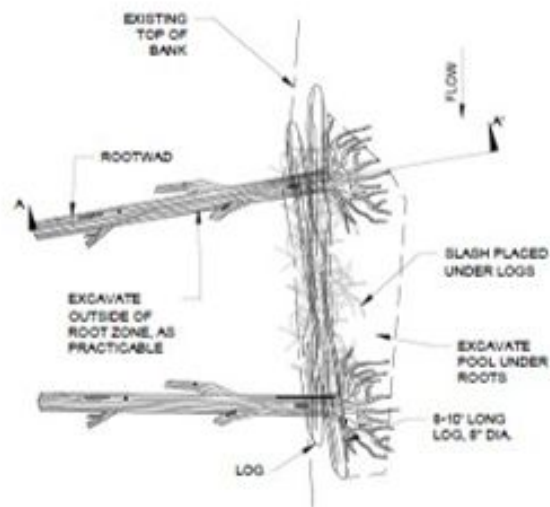
## Using the Natural Materials Generated Onsite





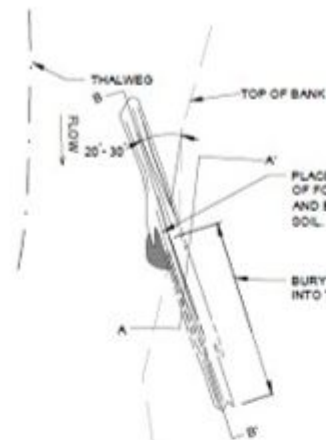


SECTION A-A'

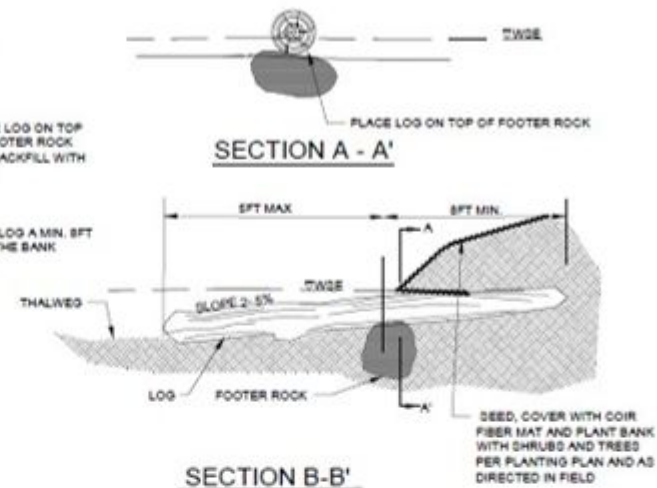


PLAN VIEW

DEFLECTOR LOG PILE 2 (DLP2)-TYPICAL  
NOT TO SCALE



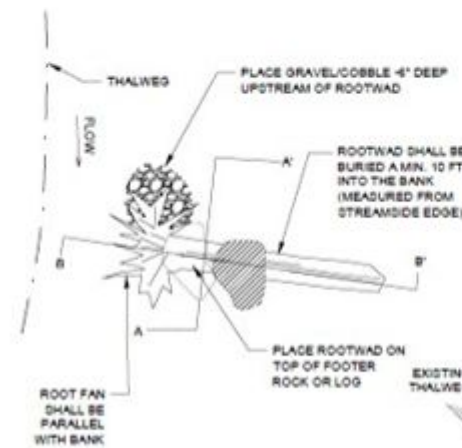
PLAN VIEW



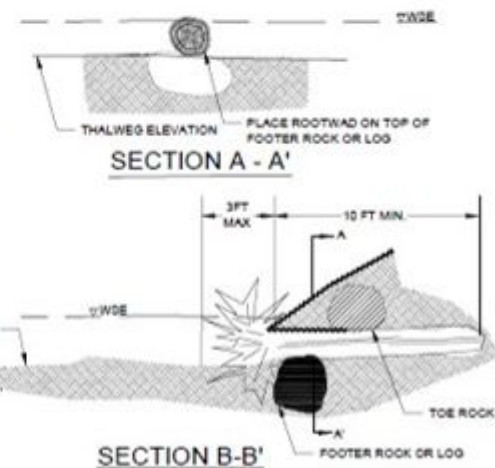
SECTION B-B'

HABITAT LOG

NOT TO SCALE



PLAN VIEW



SECTION B-B'

ROOTWAD

NOT TO SCALE



## Deflector Logs



Root Wads

# Widening the Floodplain to increase capacity. 1000 Linear ft



## Riffles for Benthos and Fish



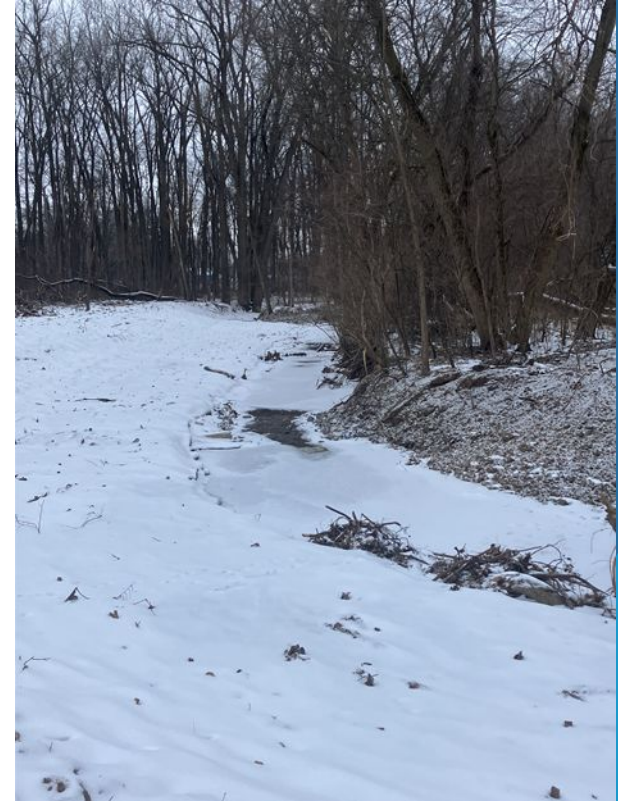
# Native Plantings: Live Stakes and Live Stake Matting



## Challenges: Topography-Grade

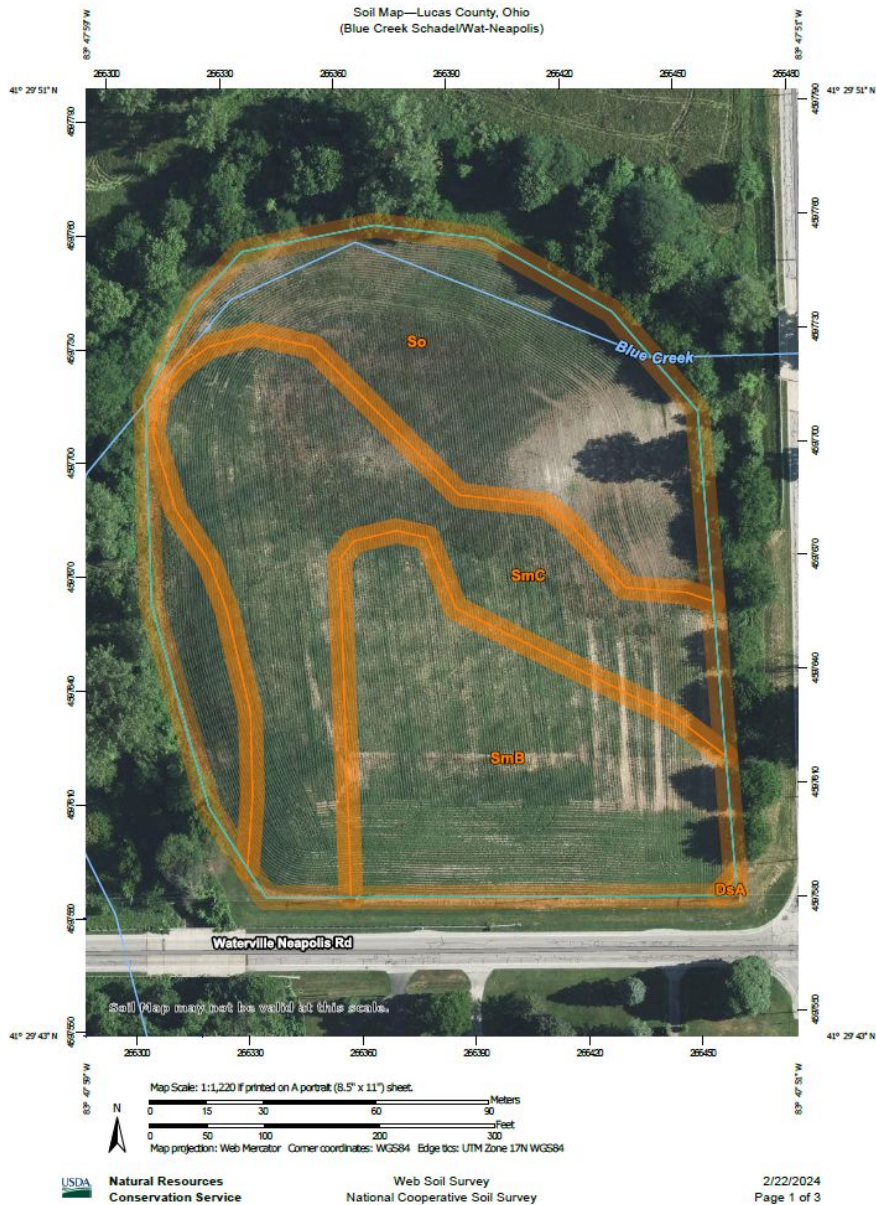


There are ALWAYS weather challenges!





# Seeding and Planting. Neis Complete. Blue Creek pushed to fall



## Neis Ditch August 2025



# Nies Ditch August 2025



## Neis Ditch Riffles - August 2025





**METROPARKS  
TOLEDO**

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