

Maumee Area of Concern

2024 End of Year Update

Presented by
Cherie Blair, Ohio EPA, Maumee AOC Coordinator
to the MAAC

December 5, 2024



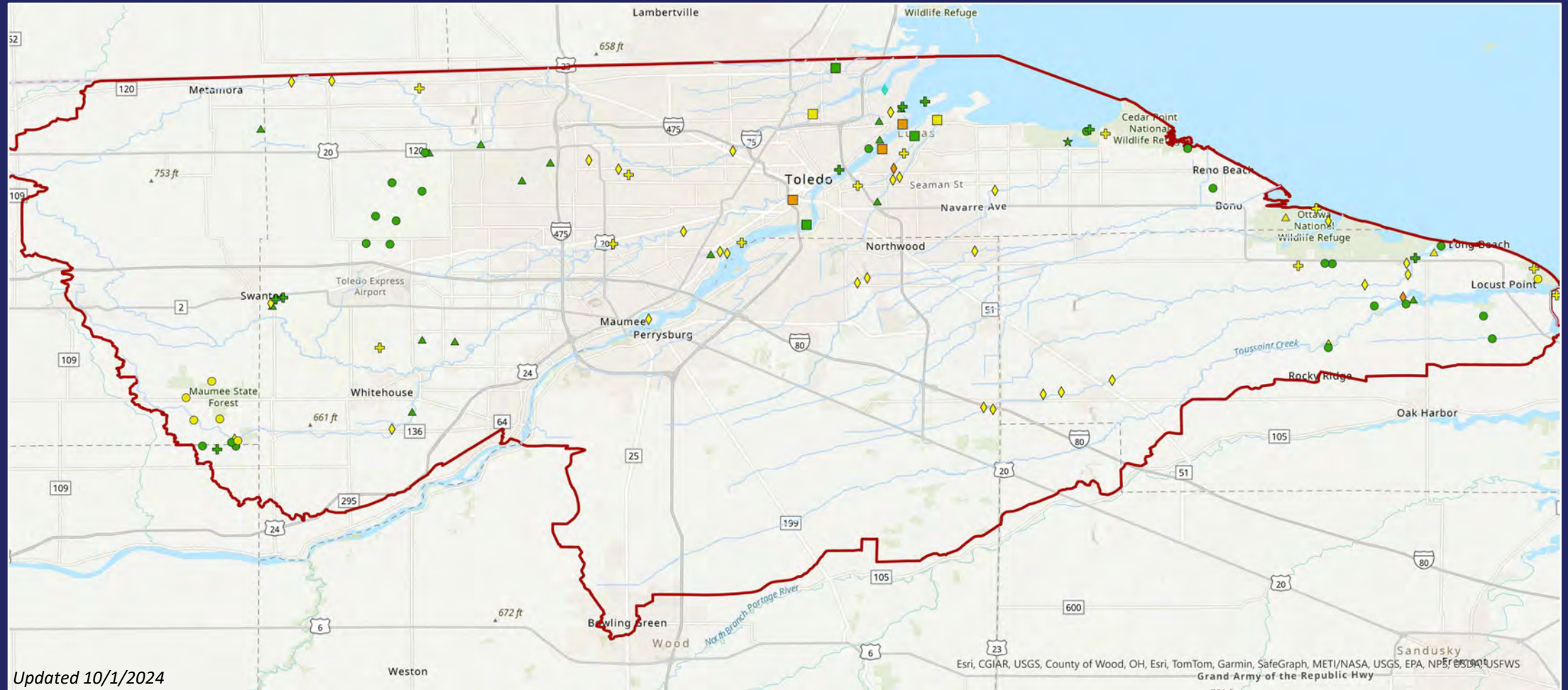
Maumee AOC - BUI Status

BUI #	BUI Name	Target Achieved	Current Status	MA Completed	Projected BUI Removal
1a	Restrictions on Fish &	✓	Target Achieved. BUI Removed.	Complete	REMOVED 2022 8/22
1b	Wildlife Consumption	✓	Target Achieved. BUI Removed.	Complete	
3a	Degradation of Fish &		Management Action Project list approved; projects are being funded and implemented	2027	2028
3b	Wildlife Populations	✓	Sentinel species target is met (2017)	Complete	
4	Fish Tumors & Other Deformities	✓	<p>Bullhead tumors were impaired in 2 assessment units; they are no longer impaired.</p> <p>→ Toussaint/Packer (2013=17.5% 2021 = 5.9% 2023 = 0%)</p> <p>→ Otter (2013 = 17.1%) (2024 = population no longer in Otter post-GLLA)</p> <p>DELTs were impaired in 2 of 31 assessment units (Sibley [lower Ottawa R] & Turtle HUCs); those HUCs were sampled by FWS in Sept 2023; data looks good but needs to be recalculate with other data for respective aquatic life use(s);</p> <p>→ Expectation is this BUI will be removed in 2025.</p>	Complete	IN PROCESS 2025
6	Degradation of Benthos		<p>Management Action Project list approved; projects are being funded and implemented</p> <p><i>NOTE: Ohio revisiting this target for the lacustuaries. Working with FWS & USGS to get funding for a study of these areas for evaluate a possible target tweaking</i></p>	2027	2028

Maumee AOC - BUI Status

BUI #	BUI Name	Target Achieved	Current Status	MA Completed	Projected BUI Removal
7	Restrictions on Dredging Activities	✓	Target Achieved. BUI Removed.	Complete	REMOVED 2024 8/24
8a	Eutrophication or Undesirable Algae	✓	D.O condition of target is met (2014)	Complete	2027
8b			Watersheds sampled summer 2020; Persistent growth condition could be considered Not Impaired; Ohio EPA collected water chemistry data in Maumee R./Bay in summer 2021	Complete	
10a	Beach Closings (Recreational Use)		Management Action Project list approved; project funded (2021); project completed (June 2024) ; removal pending project success (observation 2025-26)	2024	2026
10b		✓	Paddling Stream (Maumee R. in AOC) not on 303(d) list, target is met (2014)	Complete	
10c		✓	Ottawa River “No Contact Advisory” for PCBs was rescinded (2018); Hecklinger Pond (Duck Crk.) sign removed (2019)	Complete	
11	Degradation of Aesthetics	✓	Target Achieved. BUI Removed.	2021	REMOVED 2023 7/23
14a	Loss of Fish &		Management Action Project list approved; project are being funded and implemented	2027	2028
14b	Wildlife Habitat		Local target of 3427 acres set (late 2016); Management Action Project list approved (2018); all projects fully funded (2020) and being implemented; last project to be complete in June 2025 .	2025	

Maumee AOC - MAP Distribution



- Over 80 MAPs plus 20 GLLA cost-share projects
- >\$96M in projects funded since 2018
- \$45M in MAPs are currently in progress

All Management Action Projects

WildMAP

- Project Completed - AOC GLRI Funding
- ◆ Project Funded - AOC GLRI Funding
- Funding Needed - AOC GLRI Funding

AquaMAP

- ◆ Project Completed - AOC GLRI Funding
- ◆ Project Funded - AOC GLRI Funding
- ◆ Funding Needed - AOC GLRI Funding
- ▲ Project Completed - Other Funding
- ▲ Project Funded - Other Funding
- ▲ Funding Needed - Other Funding

SedMAP

- Project Completed - AOC GLRI Funding
- Project Funded - AOC GLRI Funding
- Funding Needed - AOC GLRI Funding
- Project Completed - Other Funding
- Project Funded - Other Funding
- Funding Needed - Other Funding

MiscMAP

- ★ Project Completed - AOC GLRI Funding
- ★ Project Funded - AOC GLRI Funding
- ★ Funding Needed - AOC GLRI Funding
- Maumee AOC

Maumee AOC - Fall 2024 MAP Update

WildMAPs (BUI 14b)

- Target to acquire, enhance and/or improve = 3,427 acres
- All 20 projects are funded
- 19 completed
- Totals 3,372 acres as of December 2023
- Only one project left (152 acres) to be completed in 2025



Cedar Point NWR Pool 2 (Gradel Marsh)
(WildMAP 14-16)

Maumee AOC - Fall 2024 MAP Update

AquaMAPs (BUI 3a, 6, 14a)

- Received \$32.1 M since 2021 for 34 aquatic habitat projects
- Most are completely funded
- One needs GLNPO funding for implementation
- Several need implementation funding under NOAA Partnerships
- Many working on RFPs, QAPPs, field data collection, design, permits
- 9 substantially complete this year
- 7 in implementation
- 3 more to start in next few months



*Hill Ditch Restoration at Toledo Natural Science Technology Center
(AquaMAP HDOR-9.0)*



Stream Restoration at Oregon Recreational Complex (AquaMAP BD-2.0)

AquaMAP HDOR-9.0: Hill Ditch Restoration at Toledo Natural Science Technology Center

*GLRI-AOC [\$250k] and
H2Ohio [\$100k]*



AquaMAP BD-2.0: Stream Restoration at Oregon Recreational Complex

*GLRI-AOC [\$1.3M] and
H2Ohio [\$104k]*



AquaMAP PC-2.0: Packer Creek Stream Restoration

Zeller and Harmeyer sites *GLRI-AOC [\$3.3M]*

Hirzel Project Site

Zeller Project Site (B)

Alexander (E)→

Harmeyer – Ditch (B/D) ↓

JECT C

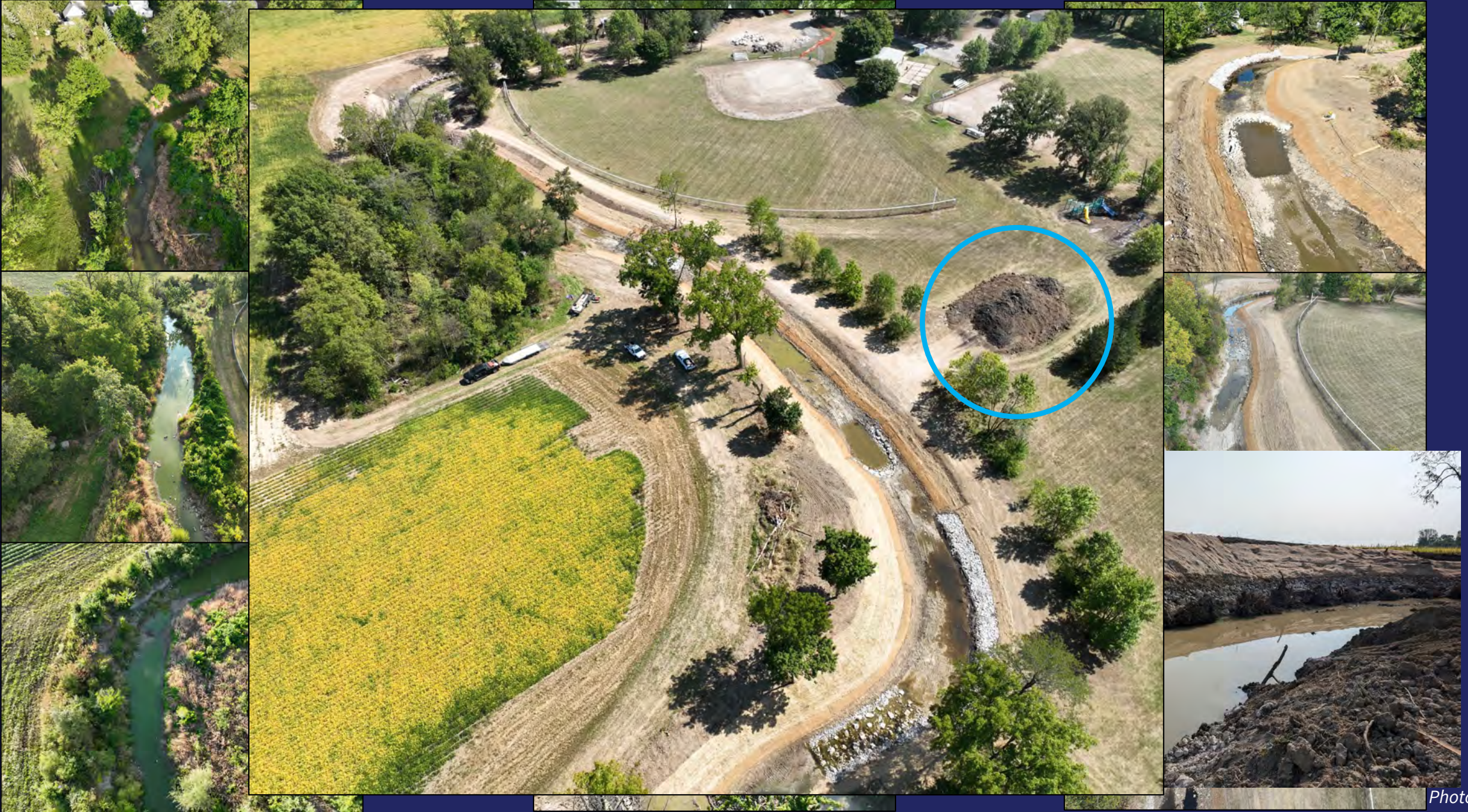
Beard Project Site

Alexander site

Harmeyer-Stream Project Site (D)

Harmeyer - Ditch site

AquaMAP HTC-12.2: Stream Restoration at Lathrop Park *GLRI-AOC [\$450,000]*



AquaMAP UBC-13.0: Maumee State Forest Blue Creek Stream Restoration GLRI-AOC [\$668,000]

Zizania aquatica (southern wild rice) THREATENED in Ohio



AquaMAP HTC-2.0: Headwaters Tenmile Creek *GLRI-AOC [\$505,000]*

← Pre-project

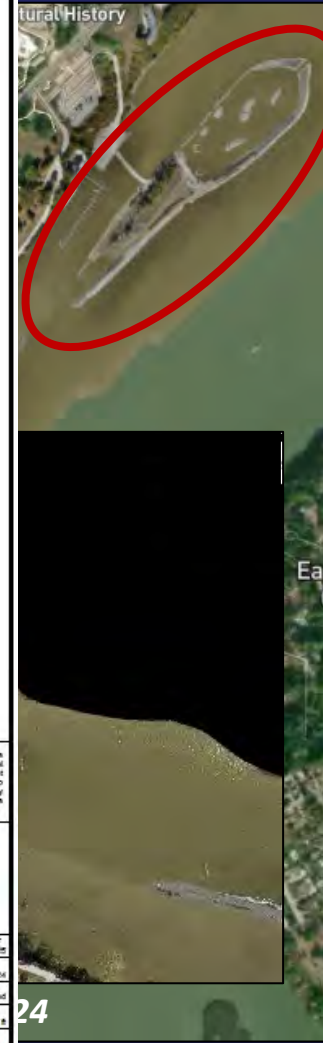
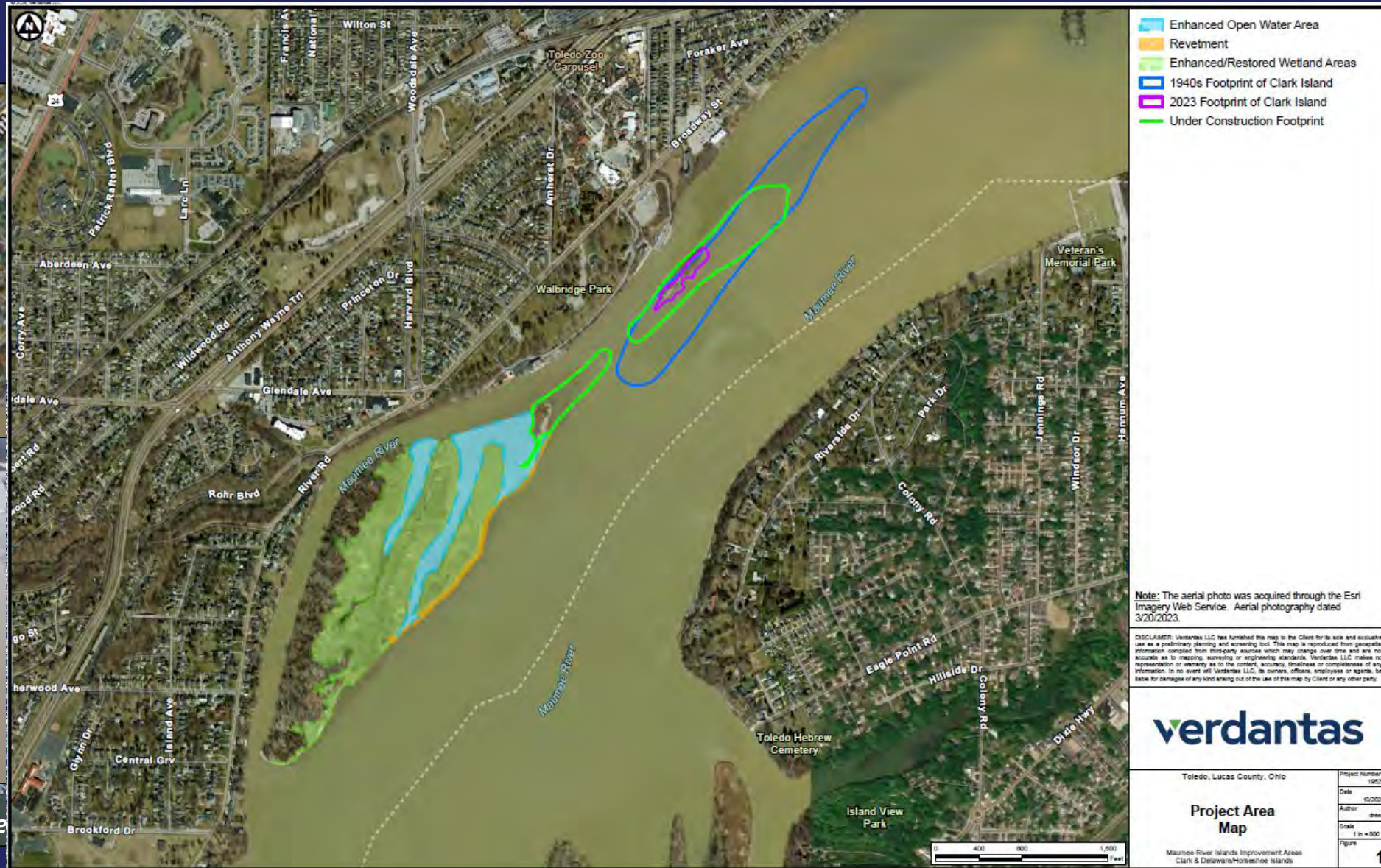
Post-project →



AquaMAP CeC-1.0: Nature Trails Park Riparian Restoration and Wetland Creation *GLRI-AOC [\$357,000]*



AquaMAP MR-14.2: Delaware Islands Complex Restoration *GLRI-AOC [\$5.3M]* and Clark Island Restoration and Nutrient Reduction Project *H2Ohio [\$8.7M]*



AquaMAPs Under Construction this Fall/Winter



*MAP HDOR-13.0: Hill Ditch
Restoration at Paisley Park
(Bandore Park)*

STARTS in JANUARY



*MAP PC-2.0: Packer Creek Stream Restoration
(Hirzel site)*



*MAP OC-3.2:
Berlin Avenue Floodplain
and Stream
Improvements*

*MAP OC-3.3 Taylor Rd. and
Yarrow St. Floodplain and
Stream Improvements*



*MAP SiC-3.0: Restoration of the Ottawa River
within Jermain Park - STARTS in EARLY DECEMBER*

Maumee AOC - Fall 2024 MAP Update

Misc. MAPs (BUI 1, 4, 7, 8, 10, 11)

- Only 1 MAPs for the listed BUIs
- BUI 10: Beach Closings
 - Waterfowl Deterrent at Maumee Bay State Park
 - GOAL: Reduce *E. coli* from waterfowl at inland lake beach
 - Shoreline stabilization (850'), spillway repaired
 - Planted 21 acres of buffer around lake (May 2023)
 - Planted 10-15 trees and reseed bare areas (Spring 2024)
 - Treated invasives during establishment
 - Installed 12 sitting rocks at inland lake access points
 - Completed (June 2024)



Maumee AOC - Fall 2024 MAP Update

SedMAP Updates (BUI 1, 3, 4, 6, 7, 11, 14)

- Swan Creek
 - VE study completed for Feasibility Study (March)
 - Final FS delayed due to more field data collection (expected Summer 2025)
- Lower Maumee River (Sway Bridge, WWTP)
 - Remedial Design in progress (expected complete in Fall 2025)
 - Field data collection (conducted Oct/Nov)
 - Section 106 Phase 2 investigations (divers were in river in November)
- Ottawa River
 - 4Y Sediment Sampling (delayed due to low water levels, conducted in Nov)
- Otter Creek
 - Remedy Evaluation by ORD

Maumee AOC - MAPs in Summary

	Total # Projects*	Estimated Total Cost*	Needs Funding	Funding Allocated	Expected Complete 12/31/24
WildMAPs	20	\$27,733,891	--	--	19
GLRI-AOC Funding	--	\$19,332,759	0	All of 14 Part of 6	--
Non-AOC Funding	--	\$8,401,132	0	Part of 6	--
AquaMAPs	54-56	\$49,908,455	--	--	23
GLRI-AOC Funding		\$36,196,675	Part of 3-4	Part of 11 All of 26	--
Non-AOC Funded		\$13,711,780	0	Part of 31	--
SedMAPs – GLLA/GLRI	8	\$126,273,869	--	--	3
GLLA/GLRI-AOC Funding	--	\$85,136,078	Part of 5	Part of 5 All of 3	--
Non-Federal Funding	--	\$41,137,791	Part of 5	Part of 5 All of 3	--
MiscMAPs	1	\$167,200	0	1	1
TOTALS =	83+	\$204,083,415	6+	78+	46

GLLA/GLRI-AOC Funding = \$140,832,712  **\$63,250,703 = Non-AOC Funding**

*Projects and cost estimates include all MAPs regardless of funding source

2025 MAAC Focus

- Continue supporting habitat and aquatic MAPs
- Work with Ohio AOC Program on BUI removals (BUI 4 in 2025)
- Work with Ohio EPA to determine future BUIs removals
- Continue EJ/DEI efforts to enhance the MAAC & its efforts
- Assist PCS with outreach, awareness and information sharing
 - Showcasing projects & AOC Program momentum underway
 - Celebrating milestones & project completions
 - Organizing tours & public outreach (site visits, open houses, etc.)
 - Continuing to engage partners working on related AOC projects
- Support the Great Lakes AOC Conference (Sept 16-18)
 - Need support for Field Trip Team and other TBD conference activities