



Maumee AOC Advisory Committee

February 9, 2023 9:30am – 11:30am

In person at Ohio EPA NWDO or

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AGENDA

- **Welcome & Meeting/Call Logistics** (Cherie Blair, Ohio EPA) (5 mins)
- **Vote: Chair & Vice-Chair** (Kris Patterson, PCS) (5 mins)
- **Vote: Minutes** (Chair) (5 mins)
- **Vote: Returning Voting Members** (Chair) (5 mins)
- **Update from BUI 3a, 6, 14a Biological subcommittee** (Beth Sparks-Jackson, USGS) (5 mins)
 - Status of lower Ottawa River TBD projects
- **US EPA Task Force Leader Report** (Leah Medley, GLNPO) (5 mins)
 - Federal Budget Update
 - GLRI Action Plan IV
- **Ohio EPA AOC Coordinator Report** (Cherie) (15 mins)
 - BUI 11 Removal Update
 - MAP Updates
 - Funding Updates
 - Upcoming Events
- **Facilitating Organization's Report** (Kris) (10 mins)
 - Financial update
 - Future activities
 - Knowledge Sharing Session about restoration projects - February
 - Summer kayak trip on Ottawa River - TBD
 - August boat tour on the Maumee River– TBD
 - New & improved maumeeaac.org website – mid summer
- **MAP Spotlight**
 - Clark Island & Delaware Island Complex Restoration project (Verdantas staff) (20 mins)
- **Partner Updates** (10 mins)
- **Public Comments & Adjourn** (5 mins)
- **Next meetings for 2023** – hybrid format, Ohio EPA NWDO plus Teams
May 25 (new date), August 10, December 14 at 930am



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MINUTES

Attendance: Cherie Blair, Beth Sparks-Jackson, Amanda Kovach, Scott Butterworth, Vanessa Steigerwald Dick, Kris Barnswell, Lynn Garrity, Corey VanStratt, Jenny Carter-Cornell, Jim Carter, Paul Hotz, Ryan Allison, Sally Gladwell, Eric Ellis, Shawn Duke, Jenny Keffer, Phil Hicks, Leah Medley, Josh Miller, Kari Gerwin, Tim Schetter, Andrew Sankowski, Liv Simkins Bullock, Regina Collins, Deanna Bobak, LaShawna Weeks, Edith Kippenhan, Deborah Millsap, DJ Mears, Eric Ellis

- Cherie welcomed everyone and Kris informed everyone that we would work to get the Chair and Vice Chair elections done and then hand off the meeting.
- **Vote:** Three applications were received for Returning Voting Members from Jenny Carter-Cornell, Sally Gladwell, and Tim Schetter. Ashlee made a motion to accepted all three, Mike seconded, and the vote passed.
- **Vote:** Mike Pniewski was nominated for Chair & Jenny Carter-Cornell for Vice-Chair. Both accepted, Sally made the motion and Ashlee seconded. Both were elected as the motion passed.
- **Vote:** Jenny made a motion to accept the minutes, Sally seconded, and minutes were accepted.
- Beth Sparks-Jackson, USGS gave an update from BUI 3a, 6, 14a Biological subcommittee. Cherie would like to reform the committee for a short time to make recommendations for projects within the lacustrary area of the Ottawa River, where the former GLLA sediment removal project was. In the original Management Action Project list there was a placeholder project of \$3 million until post-remedy sampling data could be evaluated and more specific project(s) for fish and wildlife benefits could be developed. There have been continued delays with the various agency data sets and the new committee may not have all that information but could move forward trying to identify suitable potential projects this year. The subcommittee will have a deadline of August or September of this year so that recommendations can be presented and approved in December. Let Beth know if you are interested and willing to help. New committee members are needed.
- Leah Medley, GLNPO, US EPA Task Force Leader noted that EPA has \$368 million from the Infrastructure law in this federal year. Decisions are still being made about how to use it but it could include accelerating work in AOCs. Marc Tuchman retired and Amy Pelka is serving in a temporary assignment in that role. The next AOC Conference will be in September in Green Bay, WI. More information to come. Kris asked if there was any information about GLRI Action Plan IV. Leah said there would be some stakeholder outreach in the spring or summer.
- Cherie reviewed her written Ohio EPA AOC Coordinator Report. See meeting handouts for the full report. US EPA has reviewed Ohio's BUI 11 Removal document and provided comments. Ohio EPA and Lake Erie Commission will work on the revisions. A discussion ensued about how long to post the document for public comment and whether a formal public meeting was necessary. The MAAC will have a review period for 2 weeks before the removal recommendation document would be public. The MAAC suggested that the public have 2 to 3 weeks for public



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comment and a meeting wouldn't be scheduled unless there was significant interest or comment. The MAAC would like a "heads up" on when these periods would be and Kris will work with OLEC and Ohio EPA to share the opportunities for comment with both the MAAC and the public. Cherie provided updated MAP tables, showing the additional projects that had funding allocated or recently completed work. ODNR is still looking for approximately 60 more acres near Maumee State Forest for restoration projects. Multiple RFPs are currently open for MAP projects in the AOC. The Delaware and Clark Island projects are having another Open House on March 14th. Agency work continues on the SedMAPs on Swan Creek and lower Maumee River. There may be more follow up on the Ottawa River to further investigate potential sediment contamination and the post remedy evaluation of Otter Creek. The SedMAPs may have additional reports available later this year and may hold public meetings. Cherie mentioned that the AOC Conference is looking for topics; let Lynn know if you have any.

- **Facilitating Organization's Report (Kris)**

- Financial update: The Erie22 grant is approximately 15% spent so far. PCS utilized the extended Erie19 grant funds before utilizing the Erie22 grant so spending is expected to accelerate.
- Future MAAC activities
 - A Knowledge Sharing Session about restoration projects is planned for late February. Please let Cherie or Kris know if you are participating. More information will be sent out soon.
 - Kris is considering scheduling a Summer kayak trip on Ottawa River if this would be useful for scouting potential restoration projects.
 - PCS is considering scheduling an August boat tour on the Maumee River. More details to follow.
 - PCS is also undertaking developing a new & improved maumeeaac.org website by mid summer.

- **MAP Spotlight:** Verdantas staff gave a Clark Island & Delaware Island Complex Restoration project presentation. The designs are underway and were previewed as drafts in the presentation. Clark Island is further along, as an H2Ohio project, and the permit has been submitted. The projects are being collaboratively designed and aligned. A few questions were asked about sediment capture/retention and invasive plant management.

- **Partner Updates:**

- Corey VanStratt, with Ducks Unlimited, updated the group that they have amended their NOAA Regional Partnership agreement to include Camp Sabroske. An agreement is being finalized with the landowner for brush clearing and survey (prior to acquisition). Navarre at ONWR is moving along; Pool 2/3 connecting design is done and permitted and work will be underway this year. The Pool 1 & 2 pump basins are underway.
- Mike Pniewski, Lucas County Engineer, mentioned that the VanFleet and Heldman 2 stage projects are done. Four more are planned this year and six more in design.
- TNC has a project underway for Wiregrass Ditch and one in Ottawa Hills (a non-MAP project) has been funded.
- PCS has two MAP projects underway. For the Chlorides Reduction project, we organized and led a Salt Awareness week here and developed online content that partners shared and used. We're also working to incorporate new data and updates for NPS-IS plans that will enhance opportunities for more restoration projects in the AOC. We are also beginning a stream restoration project at Lathrop Park in Berkey.

- **Public Comments & Adjourn: no comments**

- **Next meetings for 2023** – hybrid format, Ohio EPA NWDO plus Teams
May 25 (new date), August 10, December 14 at 930am

Maumee AOC Coordinator Report for the Maumee AOC Advisory Committee February 9, 2023

- **WildMAPs** (*BUI 14b: Wildlife Habitat*)
 - Several projects have been completed since we last met, including Oak Savannah Expansion at Secor Metropark (MAP 15-16), Penn 7 (MAP 24-17), and Maumee Bay State Park Wetland (MAP 29-17). Only 4 projects left and 3 of those are scheduled to be done in 2023!
 - ODNR Division of Forestry is making progress on their second Maumee State Forest Expansion project, however they are still looking for approximately 60 acres of additional land to acquire for enhancement, restoration, and protection. If you know of any possible property in western Lucas, eastern Fulton, or northeastern Henry counties, please let me or Don Schmenk know ASAP.
 - An updated Summary Table of the WildMAPs was provided with this report.
 - A detailed narrative tracking of the WildMAPs is available upon request.
- **AquaMAPs** (*BUI 3a, 6, 14a: Fish Pops, Benthic Pops, Fish Habitat*)
 - Two projects have been completed since we last met, both are Toledo Metroparks projects (PD-5.0, PD-6.0) that were related to the expansion work at Secor Metropark.
 - Lots of AquaMAPs are getting underway. Many have released RFPs in the last 3-4 months or will be in the next 3-4 months.
 - The AOC Program will be requesting \$5 million in implementation funding to be allocated for the Delaware/Horseshoe Islands project in March. This project is making great progress and will be having an open house information session on March 14, if you would like to learn more about the project beyond the presentation that will be given at today's meeting.
 - An updated Summary Table of the AquaMAPs was provided with this report.
 - A narrative tracking of the AquaMAPs is available upon request.
- **SedMAPs** (*BUIs vary by project site, GLLA contaminated sediment*)
 - Ohio continues to work with federal partners to make progress on these sediment projects.
 - The Sediment Site Characterization Reports are complete for both Swan Creek and the Lower Maumee River (LMR). Links to these documents are available on the Maumee AOC website on the Sediment Projects tab.
 - Focused Feasibility Studies for Swan Creek and the 2 Lower Maumee River sites continue. Draft FFS reports and associated public meeting(s) are expect in the Summer 2023.
 - An updated Summary Table of the SedMAPs was provided with this report.
 - A narrative tracking of the SedMAPs is available upon request.
- **Misc. MAPs** (*BUIs 4, 7, 8, 10, 11*)
 - **BUI 4: Deformities & Tumors** – US FWS will be conducting additional liver tumor sampling and possibly from fish community sampling this summer.
 - **BUI 7: Dredging** – Ohio EPA personnel are reviewing the sediment data collected in 2021.
 - **BUI 10a: Beach Closings (advisories)** – Project is in progress.
 - **BUI 8b: Eutrophication** – I will update the committee at a future meeting.
 - **BUI 11: Aesthetics** – BUI removal package is being updated based on US EPA comments. Hope to share it with the MAAC for their review before the end of February, then it will go to public comment.
- **AOC Program Updates**
 - US AOC Conference is being planned for this Fall, most likely in September in the upper Great Lakes. Stay tuned for more info.



PROJECTS

- ▶ [PUBLIC NOTICES](#)
- ▶ [SUPPLIER RECRUITMENT](#)
- ▶ [CLARK AND DELAWARE/HORSESHOE ISLANDS RESTORATION PROJECTS](#)

CONTACT

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Clark and Delaware/Horseshoe Islands Restoration Projects

The Toledo-Lucas County Port Authority, City of Toledo, and the Maumee AOC Advisory Committee (MAAC), with significant input from the Ohio Department of Natural Resources (ODNR) and Ohio Environmental Protection Agency (Ohio EPA), are leading planning efforts to help improve water quality and aquatic habitat while helping to restore and protect Clark Island and Delaware/Horseshoe Islands. These islands are in the Maumee River near Walbridge Park and are owned by the City of Toledo.

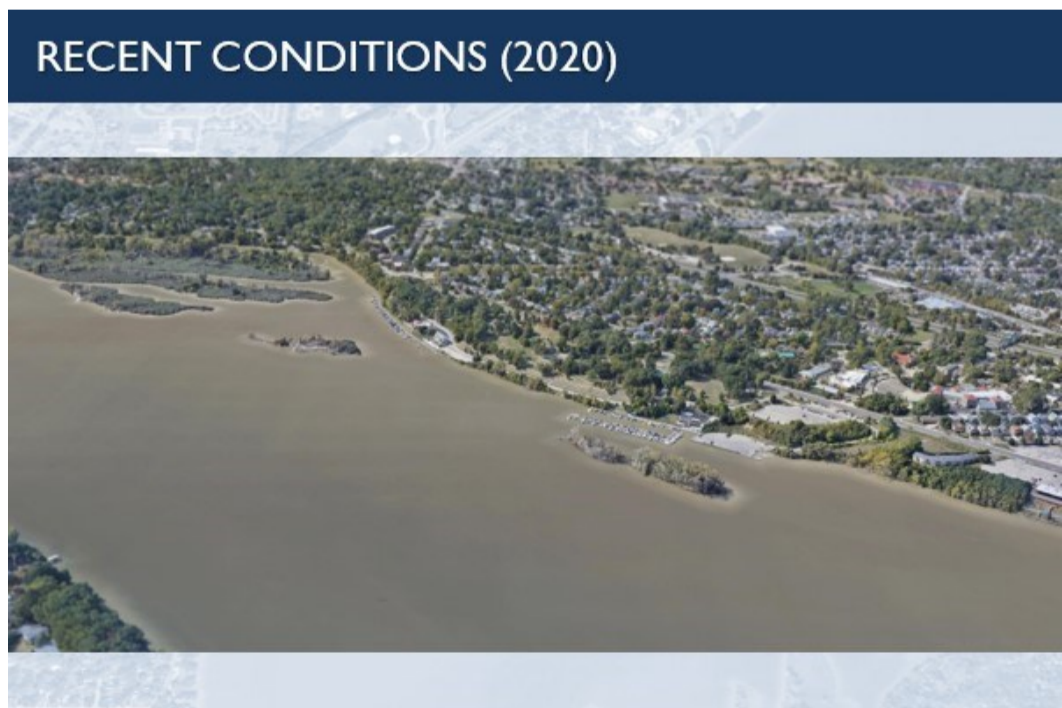
The Toledo-Lucas County Port Authority received funding from the H2Ohio program and Great Lakes Restoration Initiative (GLRI) to complete engineering, design, and permit preparation activities for work at and near the islands. Plans for H2Ohio-funded activities are focused on nutrient reduction through sediment settlement and plant uptake. GLRI-funded planning activities are focused on improving habitat for fish and benthos (small organisms that live on the river bottom). Island habitat in the Maumee River is particularly important for the prosperity of fish and benthos.

Engineering and design activities are being completed under the direction of the collaborating agencies and are led by engineers and scientists at Verdantas (formerly Hull & Associates, LLC), with input from several specialists, including modeling experts at LimnoTech and biologists at the University of Toledo. Plans for the Delaware/Horseshoe Islands advance the preliminary design prepared by the U.S. Army Corps of Engineers in 2021-2022. These designs incorporated significant stakeholder input from earlier public outreach.

Engineering, design, and permit preparation activities will be finished in June 2023. If work is recommended to proceed by the project partners based on final plan details, cost estimates, and stakeholder feedback, construction could begin in 2024, pending secured permits and construction funding.

Planned Project Benefits

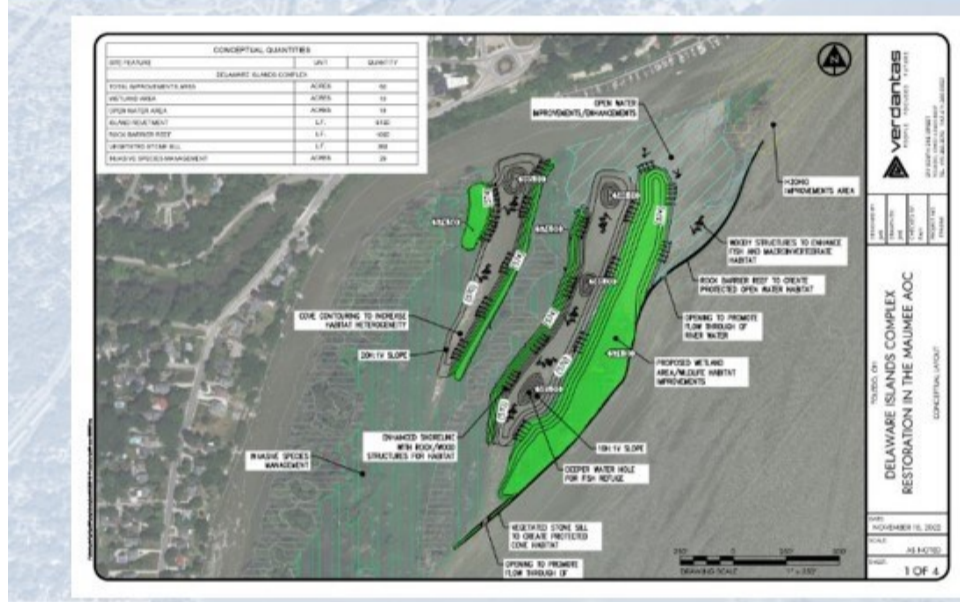
- Reduced sedimentation and nutrient loading in Maumee River and Lake Erie, resulting in water quality improvements
- Improved habitat for fish, benthos (organisms that live on and near the river bottom), and other species
- Protected and enhanced island and shoreline habitat
 - Reducing further island erosion
 - Creating resilience in ecological systems to withstand higher and more variable river flows
 - Protecting existing park and recreational boating infrastructure



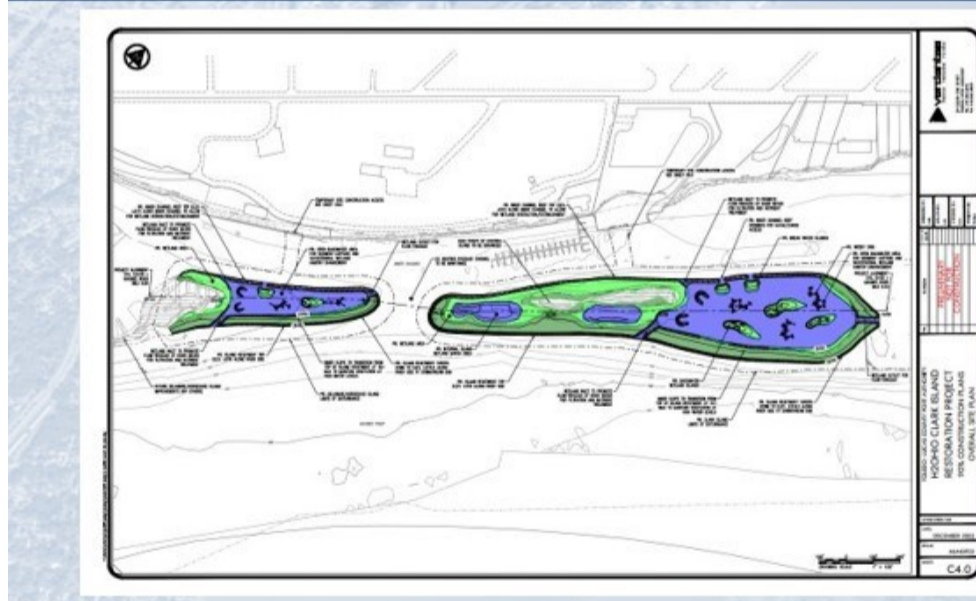
DRAFT RESTORATION PLANS FOR PUBLIC INPUT



GLRI - MAUMEE AOC DRAFT DESIGN



H2OHIO – DRAFT DESIGN



The Toledo-Lucas County Port Authority was the first port authority established in the state of Ohio in 1955.



SEARCH

Complete Management Action Project List for Maumee AOC Wildlife Habitat BUI 14b (WildMAPs)

Updated 2/6/23

On 12/14/17 the MAAC approved the projects below for recommendation to Ohio EPA. Ohio EPA endorsed these projects on 1/18/18 and US EPA accepted them on 2/12/18. It is expected that once implemented these projects will achieve the restoration target for BUI 14b: Loss of Wildlife Habitat.

Project ID	Project name (Site name)						
COMPLETED		Project Acreage	AOC GLRI Funding	Other Funding	Implementer	Funding Source	Complete
1-16	Magee Marsh State Wildlife Area	1000	\$1,075,000	--	ODNR-Wildlife	COMPLETE (GLRI via U.S. EPA)	6/22
2-16 & 3-16	Toussaint Parcel East and Toussaint Parcel West	242.6	\$2,297,000	--	DU, U.S. FWS	COMPLETE (GLRI via U.S. FWS)	9/22
4-16	Irwin upland site 5 (Griswold property)	20	\$150,000	--	Metroparks	COMPLETE (GLRI via U.S. EPA)	9/18
6-16	Habitat Restoration Plans	0	\$400,000	--	Ohio EPA	COMPLETE (GLRI via U.S. EPA)	3/19
7-16	Maumee State Forest site 1 (Carter and Rusin-1 property)	25	\$261,668	--	ODNR-Forestry	COMPLETE (GLRI via U.S. EPA)	4/21
8-16	Maumee State Forest site 2 (Hight wetland & forest property)	75	\$99,332	--	ODNR-Forestry, TNC	COMPLETE (GLRI via U.S. EPA)	4/21
9-16	Maumee State Forest site 3 (Hight upland & flatwoods property)	85	\$95,000	--	ODNR-Forestry, TNC	COMPLETE (GLRI via U.S. EPA)	4/21
10-16	Irwin wet prairie site 3a (Neyland property)	10	\$97,300	--	Metroparks	COMPLETE (GLRI via U.S. EPA)	3/18
11-16	Irwin wet prairie site 3b	31.8	\$300,000	--	Metroparks	COMPLETE (GLRI via U.S. EPA)	12/20
15-16	Oak Savannah Expansion at Secor Metropark	39.3	\$510,000	--	Metroparks	COMPLETE (GLRI via U.S. EPA)	12/22
22-17	Fox Property Restoration Project	38	\$51,340	--	Friends of Ottawa National Wildlife Refuge	COMPLETE (GLRI via U.S. EPA passthru to OEPA)	11/21
23a-17	Restoring Coastal Wetlands at Toussaint State Wildlife Area Phase I & II	63	\$600,000	\$888,000	ODNR-Wildlife, TNC, DU	COMPLETE (GLRI via NOAA, GLFWRA, SOGL)	2019
23b-17	Restoring Coastal Wetlands at Toussaint State Wildlife Area Phase III	62	\$750,000	--	ODNR-Wildlife, DU	COMPLETE (NOAA/DU Partnership)	9/21
24-17	Penn 7 Wetland Restoration	59	\$2,954,619	--	City of Toledo, GLC	COMPLETE (NOAA/GLC Partnership)	1/23
27-17	Kitty Todd Expansion	321	\$1,400,000	\$3,545,700	TNC, Metroparks	COMPLETE (GLRI via U.S. EPA passthru OEPA, WRRSP)	2/22
29-17	Maumee Bay State Park Coastal Wetland	137	\$500,000	\$2,200,000	ODNR-Wildlife, Parks	COMPLETE (GLRI via U.S. EPA, H2Ohio)	12/22
		2208.8	\$11,541,259	\$6,633,700			

FUNDED (In Progress)		Project Acreage	AOC GLRI Funding	Other Funding	Implementer	Funding Source	Estimated Complete
13-16	Navarre Unit of Ottawa National Wildlife Refuge	732	\$1,300,000	\$1,351,297	US FWS, DU	Funded (GLRI to U.S. FWS, GLFWRA, H2Ohio)	9/23
14-16	Cedar Point National Wildlife Refuge Pool 2	150	\$850,000	\$96,000	US FWS	Funded (GLRI to U.S. FWS)	Spring 2023
25-17	Howard Marsh Phase 2	243	\$4,272,000	--	Metroparks, DU	Funded (NOAA Partnership)	6/23
28-17	Maumee State Forest Expansion	152	\$1,369,500	--	ODNR-Forestry	Funded (GLRI via U.S. EPA)	7/24
		1277.0	\$7,791,500	\$1,447,297			

NEEDS FUNDNG/FUNDING being PROCESSED		Project Acreage	Funding Needed	Other Funding	Proposed Implementer	Funding Status
ALL Projects Funded		0	\$0	\$0		

3485.8	= Total Acres of Recommended MAPs
3427.0	= BUI 14b Target Acreage
-58.8	= Remaining Acres that Need to be Identified*

Estimated Total AOC GLRI Funds	=	\$19,332,759	\$8,080,997	= Estimated Total Non-AOC GLRI Funds
Estimated Total Cost	=	\$27,413,756		
Estimated Funding Needed	=	\$0		

Estimated Percentage of Non-AOC Funds Leveraged	=	29.5%
Estimated Cost per Acre to Achieve Target**	=	\$7,999.35

* Based on past experience, it is expected that the actual acreage of projects will change slightly as they are implemented. Any remaining acreage needed to achieve the BUI 14b restoration target is expected to be realized through project(s) that have similar objectives to this BUI target, but are funded by non-AOC GLRI sources.

** In NW Ohio in-lieu mitigation costs average \$48,000 per acre and mitigation bank costs average \$35,000 per acre in 2016

Complete Management Action Project List for Maumee AOC Aquatic BUIs 3a, 6, and 14a (AquaMAPs)

On 4/30/20 the MAAC approved these projects for recommendation to Ohio EPA. Ohio endorsed these projects on 5/7/20 and US EPA accepted them on 7/29/20. BUI 3b is not impaired. BUI 14b has all mgmt. actions being implemented. Once this list of projects is implemented the Restoration Targets for BUI 3: Degradation of Fish & Wildlife Populations, BUI 6: Degradation of Benthos, and BUI 14: Loss of Fish & Wildlife Habitat is expected to be achieved.

Project ID	Project name (Site name)	Target BUI(s)	AOC GLRI Funding	Other Funding	Implementer	Funding Source	Project Status	Date Complete
COMPLETED								
PD-5.0	Prairie Ditch Restoration at Secor Park: North of Visitor's Center	14a, 6	\$150,000	--	Metroparks Toledo	GLRI via U.S. EPA	Funded (4/21)	1/23
PD-6.0	Prairie Ditch Two-Stage and Floodplain Planting: Secor Park Expansion, Phase II	14a, 6	\$160,000	--	Metroparks Toledo	GLRI via U.S. EPA	Funded (4/21)	1/23
			\$310,000	\$0				

FUNDED (In Progress)/FUNDING being PROCESSED		Target BUI(s)	AOC GLRI Funding	Other Funding	Implementer	Funding Source	Project Status	Estimated Complete
TuC-17.0	Wetland Enhancement in the Riverine of Turtle Creek (Sharlow) ^	14a, 3a, 6	\$302,325	\$9,160	Ottawa SWCD	GLRI via U.S. EPA & LEPF	Funded (8/21)	12/23
HTC-2.0	Headwaters Tenmile Creek Stream & Riparian Restoration ^{fa}	6, 14a, 3a	\$560,523	--	Lucas SWCD	GLRI via U.S. EPA	Funded (8/21)	6/24
AOC-2.0	Fish and Benthos Improvements with Urban Chloride Reductions (Phase 1)	6, 3a	\$311,000	--	Univ. of Toledo	GLRI via U.S. EPA passthru OEPA	Funded (9/21)	6/25
SIC-3.0	Restoration of the Ottawa River within Jermain Park*	3a, 6, 14a	\$650,353	--	City of Toledo (TES)	IA to NOAA/GLC Partnership	Funded (9/21)	7/23
OC-5.0	Collins Park Municipal Golf Course Stream Restoration (Part 1-FS)	14a, 3a, 6	\$175,500	--	City of Toledo (Parks)	IA to NOAA/GLC Partnership	Funded (9/21)	7/23
CeC-6.0	Dry Creek Ecological Stream and Riparian Project	14a, 6, 3a	\$580,000	--	Wood Co. Engineers	GLRI via U.S. EPA	Funded (9/21)	11/24
PC-2.0	Packer Creek Stream Restoration near Genoa-State Route 163*	14a	\$3,444,000	--	Ottawa SWCD	GLRI via U.S. EPA	Funded (9/21)	12/24
BD-2.0	Stream Restoration at Oregon Recreational Complex*	14a, 6	\$1,344,000	--	City of Oregon	GLRI via U.S. EPA	Funded (7/21)	12/24
HDOR-9.0	Hill Ditch Restoration at Toledo Natural Science Technology Center*	6, 14a	\$250,000	--	Toledo Public Schools	GLRI via U.S. EPA	Funded (9/21)	7/24
HDOR-13.0	Hill Ditch Restoration at Paisley Park (Bandore)	6	\$130,000	\$429,610	City of Toledo (TES)	GLRI via U.S. EPA	Funded (10/21)	12/23
LTC-13.0	Connected Wetland and Fish Passage at Camp Sabroske^ (Part 1-Acquisition)	3a, 6, 14a	\$450,000	--	U.S. FWS	IA GLRI to U.S. FWS	Funding Transferred	TBD
TuC-18.0	Oxbow Channel Addition & Wetland Enhancement/ Reconnection in the Lacustrary of Turtle Creek (Minier & Kontz)^	14a, 3a, 6	\$3,300,000	\$82,500	U.S. FWS	IA GLRI to USFWS & H2Ohio	Funding Transferred	TBD
PC-6.0	Packer Creek Stream and Riparian Restoration (Gargas) ^	14a	\$278,500	--	Ottawa SWCD	GLRI via U.S. EPA	Funded (9/22)	12/24
HTC-12.2	Stream Restoration at Lathrop Park*	14a, 6	\$450,000	--	Partners for Clean Streams	GLRI via U.S. EPA passthru OEPA	Funded (9/22)	3/26
CeC-1.0	Nature Trails Park Riparian Restoration and Wetland Creation*	14a, 6, 3a	\$337,000	--	City of Northwood	GLRI via U.S. EPA	Funded (9/22)	6/25
DC-2.0	Delaware Creek Park Restoration: Phase II	6, 14a	\$500,000	\$33,784	City of Toledo (TES)	GLRI via U.S. EPA	Funded (9/22)	12/25
UBC-13.0	Maumee State Forest Blue Creek Stream Restoration (Hight) *	14a	\$668,000	--	The Nature Conservancy	GLRI via U.S. EPA passthru ODNR(Fst)	Funded (7/22)	9/25
LTC-1.0	Schiller Stream and Riparian Improvements*	14a, 3a, 6	\$678,000	--	U.S. FWS	IA GLRI to U.S. FWS	Funding Transferred	TBD
OC-3.2	Berlin Avenue Floodplain and Stream Improvements^	14a, 6, 3a	\$699,510	--	City of Oregon	GLRI via U.S. EPA	Funded (8/22)	12/25
OC-3.3	Taylor Rd. and Yarrow St. Floodplain and Stream Improvements^*	14a, 6, 3a	\$690,000	--	City of Oregon	GLRI via U.S. EPA	Funded (8/22)	12/25
LBC-17.1	Blue Creek Restoration at Blue Creek Metropark*	14a	\$550,000	--	Metroparks Toledo	GLRI via U.S. EPA	Funded (9/22)	9/25
AC-3.0	Neis Ditch Stream Restoration^?	14a, 6, 3a	\$400,000	--	Metroparks Toledo	GLRI via U.S. EPA	Funded (9/22)	9/25
CeC-4.0	Dry Creek Aquatic and Riparian Restoration (WM)^ ^{fa}	14a, 6, 3a	\$500,000	--	Wood Co. Engineers	GLRI via U.S. EPA	Funded (9/22)	9/25
MR-14.1	Audubon State Nature Preserve Islands Restoration*	3a, 14a, 6	\$3,600,000	--	Metroparks Toledo	GLRI via U.S. EPA	Funded (4/22)	9/25
MR-14.2	Delaware Islands Complex Restoration (Part 1-E&D)*	3a, 14a, 6	\$320,000	--	TLCPA	GLRI via U.S. EPA	Funded (8/22)	6/23
DD-7.0	Detwiler Park Stream Restoration*	6, 3a, 14a	\$1,000,000	--	City of Toledo (TES)	GLRI via U.S. EPA	Funded (9/22)	4/25
CrC-5.0	Crane Creek Lacustrary Wetland Restoration	14a, 3a, 6	\$1,500,000	--	U.S. FWS	IA GLRI to U.S. FWS	Funding Transferred	TBD
OC-5.0	Collins Park Municipal Golf Course Stream Restoration (Part 2-E&D)	14a, 3a, 6	\$209,000	--	City of Toledo (TES)	IA to NOAA/GLC Partnership	Funded (9/22)	TBD
HDSC-4.0	UTMC Swan Creek Restoration*	6, 14a	\$570,000	--	University of Toledo	IA to NOAA/GLC Partnership	Funded (9/22)	TBD
			\$24,447,711	\$555,054				

NEEDS FUNDNG		Target BUI(s)	Funding Needed	Other Funding	Proposed Implementer	Proposed Funding Source	Funding Status	Funding Priority
<i>Pending FFY23</i>								
MR-14.2	Delaware Islands Complex Restoration (Part 2-Implementation)	3a, 14a, 6	\$5,080,000	--	TLCPA	GLRI via U.S. EPA	Awaiting Allocation	1
LTC-13.0	Connected Wetland and Fish Passage at Camp Sabroske* (Part 2-E&D/Implementation)	3a, 6, 14a	\$2,924,015	--	U.S. FWS, DU	IA to NOAA/DU Prtnrshp	Awaiting Allocation	1
OC-5.0	Collins Park Municipal Golf Course Stream Restoration (Part 3-Implementation)	14a, 3a, 6	\$315,500	--	City of Toledo (TES)	IA to NOAA/GLC Partnership	Awaiting Allocation	1
SIC-13.0	Instream and Riparian Projects in the Lacustrary of Ottawa River (pending - sampling results)	3a, 6, 14a	\$3,000,000	--	TBD within 1 yr of data	TBD	TBD	TBD
			\$11,319,515	\$0				

NO GLRI-AOC (FA1) FUNDING REQUIRED, ALREADY FUNDED		Target BUI(s)	AOC GLRI Funding	Other Funding	Implementer	Funding Source	Complete	Funded
varies	20 already funded Aquatic Biological MAPs	3, 6, 14a	--	\$12,022,186	varies	varies	14 of 20	all
			\$0	\$12,022,186				

^ = acquisition
^{fa} = acquisition or easement
 * = concept plan

Estimated **Total AOC GLRI Funds** = \$36,077,226 | \$12,577,240 = Estimated **Total Non-AOC GLRI Funds**
 Estimated **Total Cost** = \$48,654,466
 Estimated **Funding Needed** = \$11,319,515
 Estimated **Percentage of Non-AOC Funds Leveraged** = 25.9%

Complete Maumee AOC Management Action Project List for Contaminated Sediments (SedMAPs)

Updated 2/6/23

On 6/11/20 the MAAC approved these projects for recommendation to Ohio EPA. Ohio endorsed these projects on 6/29/20 and US EPA accepted them on 7/29/2020. These projects will address a variety of BUIs as listed with each project. These projects will lead to the direct removal of some BUIs, but other BUIs will require additional management actions as defined in those BUI-specific management action lists. Below is an explanation of the BUI numbering.

Sediment Projects

BUI	Project Site	Lead Agency	Task/Description	Funding Status	AOC GLLA Funding	Non-Federal Funding	Estimated Total Cost	Anticipated FFY
1,3,4,6,14	Ottawa River (Reaches 1 - 4 area)	US ACE (for GLNPO) ORD (for GLNPO)	Remedy Confirmation Study - Reach 1	Complete (2019)	\$446,723	-	\$446,723	19
			Remedy Effectiveness Study - Reach 2-4	In Progress	\$1,100,000	-	\$1,100,000	20
			Area 4y PCB Delineation/Next Steps	In Progress	-	\$100,000	\$100,000	22
			Decision document	In Progress	-	-	-	20
3,6,14	Halfway, Silver, Shantee Creeks	Ohio EPA	Field verification of conditions	Complete (11/20)	-	-	-	20
			Decision document	Complete (7/21)	-	-	-	21
6,14	Swan Creek (RM 4-0) (Phase 1 & 2 area)	GLNPO	SLERA	Complete (2019)	-	-	-	19
			Data Gap Investigation	Complete (8/22)	\$600,000	-	\$600,000	20
			Feasibility Study	In Progress	\$195,000	\$105,000	\$300,000	22
			Remedial Design	Needs Funding	\$325,000	\$175,000	\$500,000	23
			Remedial Action/Construction	Needs Funding	\$12,025,000	\$6,475,000	\$18,500,000	24-25
			Remedy Effectiveness Study	Needs Funding	tbd	tbd	tbd	30
3,6,14	Maumee River - Upstream (Phase 1 area)	US ACE (for GLNPO)	SLERA	Complete (2019)	-	-	-	20
			Decision document	Complete (10/21)	-	-	-	20
3,6,7,14	Maumee River - Sway Bridge (within Phase 2 area)	US ACE (for GLNPO)	SLERA	Complete (2019)	-	-	-	20
			Data Gap Investigation	Complete (8/22)	\$725,300	-	\$725,300	21
			Feasibility Study	In Progress	\$195,000	\$105,000	\$300,000	22
			Remedial Design	Needs Funding	\$325,000	\$175,000	\$500,000	23
			Remedial Action/Construction	Needs Funding	\$12,512,500	\$6,737,500	\$19,250,000	24-25
			Remedy Effectiveness Study	Needs Funding	tbd	tbd	tbd	30
3,6,14	Maumee River - WWTP (within Phase 2 area)	US ACE (for GLNPO)	SLERA	Complete (2019)	-	-	-	20
			Data Gap Investigation	Complete (8/22)	\$725,300	-	\$725,300	21
			Feasibility Study	In Progress	\$195,000	\$105,000	\$300,000	22
			Remedial Design	Needs Funding	\$325,000	\$175,000	\$500,000	24
			Remedial Action/Construction	Needs Funding	\$21,612,500	\$11,637,500	\$33,250,000	25
			Remedy Effectiveness Study	Needs Funding	tbd	tbd	tbd	30
3,4,6,11,14	Otter Creek	US ACE (for GLNPO)	Remedial Design	Complete (2020)	\$1,300,000	\$700,000	\$2,000,000	20
			Remedy/Restoration Baseline Study	Complete (2020)	tbd	tbd	tbd	20
			Remedial Action/Construction	Complete (2021)	\$6,500,000	\$3,500,000	\$10,000,000	21
			Remedy Effectiveness Study	In Progress	tbd	tbd	tbd	26
			Restoration Effectiveness Study	In Progress	tbd	tbd	tbd	26
3,4,6,14	Duck Creek	GLNPO	SLERA	Complete (2018)	-	-	-	19
			Decision document (NFA)	Complete (2019)	-	-	-	19

note: Italicized funding are rough estimates

\$59,107,323 \$29,990,000 \$89,097,323

Completed Tasks = \$14,497,323	In Progress/Funded Tasks = \$2,100,000	Needs Funding/Pending Tasks = \$72,500,000
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Cost Share Projects

Project ID	Project name (Site name)	Lead Implementer/ Partner	Funding Source	Funding Status	AOC GLLA Funding	Non-Federal Funding	Added to PA	Estimated Complete
CS-01	Cullen Park Flow Through Wetland (MB-2.0)	Toledo-Lucas Co Port Authority	H2Ohio (SFY20-Phase 1)	Complete (2021)	-	\$203,429	Oct. 2020	June 2021
CS-02	Grassy Island Flow Through Wetland	Toledo/Lucas Co Port Authority	H2Ohio (SFY20-Phase 1)	Complete (2021)	-	\$531,629	Oct. 2020	June 2021
CS-03	Maumee Bay State Park (29-17)	TNC	H2Ohio (SFY20-Phase 1)	Complete (2022)	-	\$2,200,000	Oct. 2020	Dec 2022
CS-4A	Ottawa NWR Nearshore Habitat Restoration (CrC-4.0)	Ottawa SWCD	H2Ohio (SFY20-Phase 1)	In Progress	-	\$650,000	Oct. 2020	TBD
CS-4B	Turtle Creek Bay (Magee Marsh) Reconnection (TuC-20.0)	Erie SWCD	H2Ohio (SFY20-Phase 1)	Complete (2022)	-	\$600,000	Oct. 2020	June 2022
CS-13	Oak Openings Preserve Metropark Wetland Expansion	Metroparks Toledo	H2Ohio (SFY20-Phase 1)	Complete (2022)	-	\$867,000	Oct. 2020	May 2022
CS-25	VanOrder Woodland and Wetland Restoration	ODNR - Forestry	H2Ohio (SFY20-Phase 1)	Complete (2022)	-	\$363,476	Oct. 2020	Spring 2022
CS-26	Navarre Marsh Wetland Restoration & Reconnection	Ducks Unlimited	H2Ohio (SFY20-Phase 1)	In Progress	-	\$950,000	Oct. 2020	Late 2023
CS-12	Mallard Club Wildlife Area Wetland Connection	Ducks Unlimited	H2Ohio (SFY20-Phase 2)	In Progress	-	\$767,071	June 2021	June 2024
CSM-15	Maumee River Shoreline Acquisition	Metroparks Toledo	Metroparks Toledo General Fund	Complete (2021)	-	\$1,833,350	June 2021	Sept 2021
CSM-16	Oak Openings Preserve Metropark Wetland Expansion (PART 2 of CS-13)	Metroparks Toledo	Clean Ohio Fund District 12 (SFY20)	Complete (2022)	-	\$483,625	June 2021	June 2022
CSM-17	Oak Openings Corridor Swamp Forest Protection (Reed)	Metroparks Toledo	Clean Ohio Fund District 12 (SFY21)	In Progress	-	\$584,000	June 2021	Late 2023
CSM-18	Ravine Park Acquisition and Restoration (Garfield Greenway)	Metroparks Toledo	Clean Ohio Fund District 12 (SFY21)	In Progress	-	\$271,368	June 2021	Late 2023
CSM-19	Swan Creek Preserve Expansion	Metroparks Toledo	Clean Ohio Fund District 12 (SFY21)	In Progress	-	\$162,005	June 2021	June 2023
CS-34	Clark Island Habitat Restoration Project (E&D only)	Toledo/Lucas Co Port Authority	H2Ohio (SFY21-Phase 3)	In Progress	-	\$620,000	June 2021	June 2023
CS-36	Duck Creek Wetland and Stream Restoration	Toledo/Lucas Co Port Authority	H2Ohio (SFY21-Phase 3)	In Progress	-	\$1,800,000	June 2021	Dec 2023
CS-4C	Toussaint Shooting Club Reconnections	Ottawa SWCD	H2Ohio (SFY21-Phase 3)	In Progress	-	\$2,418,000	June 2021	June 2023
CS-55	Ford Ditch Two-Stage Ditch Restoration	Lucas Co Engineers Office	H2Ohio (SFY21-Phase 5)	In Progress	-	\$636,345	Oct. 2022	Dec 2023
CS-86	Univ of Toledo Foundation CADE Wetland and Stream Restoration	UT Foundation	H2Ohio (SFY21-Phase 5)	In Progress	-	\$2,229,188	Oct. 2022	Oct 2023
CS-91	Ottawa NWR Expansion - Lickert Tract	TNC	H2Ohio (SFY21-Phase 5)	In Progress	-	\$1,364,000	Oct. 2022	May 2024

\$19,534,486