





Maumee AOC Advisory Committee

August 11, 2022 9:30am – 11:30am

Join Microsoft Teams Meeting

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AGENDA

•	Welcome & Meeting (Mike Pniewski, Chair)	(5 mins)
•	Vote: Minutes (Chair)	(5 mins)
•	BUI 1 Removal Update and Next Steps (Cherie Blair, Ohio EPA)	(10 mins)
•	VOTE - BUI 1 Removal Letter Endorsement	(10 mins)
•	BUI 11 Removal Document & MAAC actions (Cherie)	(15 min)
•	 US EPA Task Force Leader Report (Leah Medley, GLNPO) Federal Budget Update Infrastructure Investment & Jobs Act distribution plan by Focus Area 	(5 mins)
•	Ohio EPA AOC Coordinator Report (Cherie) MAP Updates Funding Updates 	(10 mins)
•	 Facilitating Organization's Report (Kris Patterson, PCS) Financial update ERIE19 grant closed, funding remained. New grant started (ERIE22). In December, plan 2023 summer activities & projects to highlight 	(10 mins)
•	 MAP Spotlight MAP projects highlight, City of Toledo 	(20 mins)
•	Partner Updates	(10 mins)
•	Public Comments & Adjourn	(5 mins)
•	Next meetings for 2022 December 8 at 930am Add in person option (at Ohio EPA-NWDO) for hybrid meeting?	











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MINUTES

- Welcome & Meeting (Mike Pniewski, Chair)
 Attendance: Cherie Blair, Kris Patterson, Amanda Kovach, Jim Carter, Colin Kelly, Jenny Carter-Cornell, DJ Mears, Ryan Allison, Madeleine Dewey, Kris Barnswell, Archie Lunsey, Andrew Timmis, Vanessa Steigerwald Dick, Edith Kippenham, Marisa Stewart, LaShawna Weeks, Ashlee Decker, Sally Gladwell, Ashley Binion Zuccaro, Deanna Bobak, Tom Denbow, Lynn Ackerson, Beth Sparks-Jackson, Lynn Garrity, Leah Medley, Tim Schetter, Liv Simkin Bullock
- Vote: Minutes Jenny asked for a vote on the June minutes. Jim Carter motioned to approve the minutes and Ashlee Decker seconded. With 6 yes votes, the minutes were approved.
- **BUI 1 Removal Update and Next Steps** Cherie Blair, Ohio EPA gave a brief overview of the 30 day comment period (14 days public, and 14 days preview for the MAAC) on the proposed removal of BUI 1. Only a few clarifying questions were asked and the document was revised to expand the explanation and references, primarily for the turtles section, more. No comments from the general public were received. Ohio EPA and the Lake Erie Commission request an endorsement letter from the MAAC to include with the package to US EPA.
- VOTE BUI 1 Removal Letter Endorsement Jenny asked for a motion to submit the proposed letter, circulated with the meeting materials, to Ohio EPA to support BUI 1 removal. Jim Carter made a motion, Ryan Allison seconded, and with 6 yes votes, the motion passed.
- **BUI 11 Removal Document & MAAC actions** Cherie updated the committee that the BUI 11 removal package was still being developed internally and then would then go through Ohio EPA and US EPA review before being shared with the MAAC. Cherie plans to distribute the package before the December meeting in anticipation of a brief public comment period, if necessary, and then action from the MAAC in December.
- **US EPA Task Force Leader Report** Leah Medley, GLNPO commented that the review of MAP funding requested from GLNPO went well and there are lots of projects going or getting funding soon in the Maumee AOC.
- Ohio EPA AOC Coordinator Report Cherie provided a written report and briefly went over the highlights. 15 more projects (all of the requests) were funded for AquaMAP projects and all of the WildMAP projects had already been allocated and have now received awards. A few projects falling under the NOAA Partnership program are still to be decided. More data should be available on the GLLA sediment projects at the December meeting.
- Facilitating Organization's Report Kris Patterson, PCS gave a brief update. ERIE19 grant closed, with about \$24,000 of the funding remaining due to the interruptions from COVID and change in activities and staffing. The new grant started recently. PCS has been updating and generating content for the newsletters and social media. We also supported several project management teams. In December, Kris plans to ask for 2023 summer activities & projects to highlight in 2023. Kris also mentioned that work is progressing on the chlorides reduction project with UT and TMACOG.



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- Several City of Toledo staff gave updates on several habitat and stream restoration projects underway and at various stages. The staff provided updates on projects underway at Delaware Creek and Park, Detwiler, and Bandor and Paisley Parks.
- **Partner Updates** Partners were given the opportunity to share any informal updates. No Public Comments given & meeting was adjourned.
- Next meetings for 2022 December 8 at 930am Add in person option (at Ohio EPA-NWDO) for hybrid meeting?







Mike DeWine, Governor Jon Husted, Lt. Governor Laurie A. Stevenson, Director



Maumee AOC Coordinator Report for the Maumee AOC Advisory Committee *August 11, 2022*

- WildMAPs (BUI 14b: Wildlife Habitat)
 - The Magee Marsh State Wildlife Area project has been completed. It is in a combined grant award with the Maumee Bay State Park (MBSP) Wetland project which has been extended through June 2023. The MBSP project has completed significant construction this summer on their dikes.
 - 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)
 - The Maumee AOC has received direct GLRI-AOC funding for all 15 projects that were requested this federal fiscal year. Here is the status:
 - 15 have been submitted in grants.gov and expect to be awarded by the end of Sept.
 - 1 will be awarded to Ohio EPA as a passthrough grant
 - 2 will have funding provided to US FWS via an interagency agreement
 - Three projects are still pending NOAA Partnership funding consideration via the Great Lakes Commission and Ducks Unlimited.
 - The AOC Program doesn't expect to hear about these projects until fall 2022.
 - 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 projects.
 - LOTS of data was collected in 2021 and the reports are being drafted/reviewed.
 - I expect to have an update on these projects at the December meeting
 - Focused Feasibility Studies for Swan Creek and the 2 Lower Maumee River sites have started.
 - 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 1, 4, 7, 8, 10, 11)
 - BUI 1: Fish & Wildlife Consumption BUI removal package completed public comment period on August 5. As of August 4, no negative public comments had been received. Removal package will continue through the process with expected submission to US EPA in late August/early Sept.
 - BUI 4: Deformities & Tumors Ohio EPA is reviewing the fish community data collected by US ACE-Chicago and US F&WS. I will update the committee at a future mtg.
 - **BUI 7: Dredging** Waiting for sediment data collected in 2021 to be available.
 - BUI 10a: Beach Closings (advisories) Project is in progress.
 - **BUI 8b: Eutrophication** Ohio EPA is reviewing the data collected in 2021. I will update the committee at a future meeting.
 - **BUI 11: Aesthetics** BUI removal package has to go through Ohio EPA and US EPA review, then it will be shared with MAAC.
- AOC Program Updates
 - Ohio Lake Erie Commission has hired a new AOC Coordinator for the Black River and Cuyahoga River AOCs. Welcome to Hannah Boesinger!

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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)							
COMPLETED		Target BUI(s)	AOC GLRI Funding	Other Funding	Implementer	Funding Source	Complete	
	none at this time		\$0	\$0				
		Target	AOC GLRI	Other		Funding	Due is at Chatra	Estimated
FUNDED (In	Progress)/FUNDING being PROCESSED	BUI(s)	Funding	Funding	Implementer	Source GLRI via	Project Status Funded	Complete
PD-5.0	Prairie Ditch Restoration at Secor Park: North of Visitor's Center	14a, 6	\$150,000		Metroparks Toledo	U.S. EPA	(4/21)	8/23
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)	8/23
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)	12/22
HTC-2.0	Headwaters Tenmile Creek Stream & Riparian Restoration ^E *	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)	7/22
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)	7/22
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	Funded	12/24
HDOR-9.0	Hill Ditch Restoration at Toledo Natural Science Technology Center*	6, 14a	\$250,000		Toledo Public	U.S. EPA GLRI via	(7/21) Funded	7/24
HDOR-13.0	Hill Ditch Restoration at Paisley Park (Bandore)	6	\$130,000	\$429,610	Schools City of Toledo	U.S. EPA GLRI via	(9/21) Funded	12/23
LTC-13.0	Connected Wetland and Fish Passage at Camp Sabroske^ (Part 1-Acquistion)	3a, 6, 14a	\$450,000		(TES) U.S. FWS	U.S. EPA	(10/21) Funding	TBD
TuC-18.0	Oxbow Channel Addition & Wetland Enhancement/ Reconnection in the Lacustuary of Turtle	14a, 3a, 6	\$3,300,000	\$82,500	U.S. FWS	U.S. FWS	Transferred Funding	TBD
PC-6.0	Creek (Minier & Kontz)^ Packer Creek Stream and Riparian Restoration (Gargas) ^	14a	\$278,500		Ottawa SWCD	USFWS & H2Ohio GLRI via	Transferred Submitted in	TBD
HTC-12.2	Stream Restoration at Lathrop Park*	14a, 6	\$450,000		Ohio EPA	U.S. EPA GLRI via U.S. EPA passthru OEPA	grants.gov Submitted in	TBD
CeC-1.0	Nature Trails Park Riparian Restoration and Wetland Creation*	14a, 6, 3a	\$337,000		City of Northwood	GLRI via U.S. EPA	grants.gov Submitted in grants.gov	TBD
DC-2.0	Delaware Creek Park Restoration: Phase II	6, 14a	\$500,000		City of Toledo	GLRI via	Submitted in	TBD
UBC-13.0	Maumee State Forest Blue Creek Stream Restoration (Hight) *	14a	\$668,000		(TES) ODNR-Forestry	U.S. EPA GLRI via U.S. EPA passthru ODNR(Fst)	grants.gov Submitted in grants.gov	TBD
LTC-1.0	Schiller Stream and Riparian Improvements*	14a, 3a, 6	\$678,000		U.S. FWS	IA GLRI to U.S. FWS	Awaiting IA Transfer	TBD
OC-3.2	Berlin Avenue Floodplain and Stream Improvements^	14a, 6, 3a	\$699,510		City of Oregon	GLRI via U.S. EPA	Submitted in grants.gov	TBD
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	Submitted in grants.gov	TBD
LBC-17.1	Blue Creek Restoration at Blue Creek Metropark*	14a	\$550,000		Metroparks Toledo	GLRI via U.S. EPA	Submitted in grants.gov	TBD
AC-3.0	Neis Ditch Stream Restoration ^[?]	14a, 6, 3a	\$400,000		Metroparks Toledo	GLRI via U.S. EPA	Submitted in grants.gov	TBD
CeC-4.0	Dry Creek Aquatic and Riparian Restoration (WM) ^{^E} *	14a, 6, 3a	\$500,000		Wood Co. Engineers	GLRI via U.S. EPA	Submitted in grants.gov	TBD
MR-14.1	Audubon State Nature Preserve Islands Restoration*	3a, 14a, 6	\$3,600,000		Metroparks Toledo	GLRI via U.S. EPA	Submitted in grants.gov	TBD
MR-14.2	Delaware Islands Complex Restoration (Part 1-E&D)*	3a, 14a, 6	\$320,000		TLCPA	GLRI via U.S. EPA	Submitted in grants.gov	TBD
DD-7.0	Detwiler Park Stream Restoration*	6, 3a, 14a	\$1,000,000		City of Toledo (TES)	GLRI via U.S. EPA	Submitted in grants.gov	TBD
CrC-5.0	Crane Creek Lacustuary Wetland Restoration	14a, 3a, 6	\$1,500,000		U.S. FWS, DU	IA GLRI to U.S. FWS	Awaiting IA Transfer	TBD
			\$23,978,711	\$521,270				

\$23,978,711 \$521,270

NEEDS FUN	EEDS FUNDNG		Funding Needed			Proposed Funding Source	Funding Status	Funding Priority
		BUI(s)	necucu	- I difuling	Implementer		Under NOAA F	
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	Approval Pending	1
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	Approval Pending	2
HDSC-4.0	UTMC Swan Creek Restoration*	6, 14a	\$570,000		University of Toledo	IA to NOAA/GLC Partnership	Approval Pending	3
							Pe	ending FFY23
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	10
MR-14.2	Delaware Islands Complex Restoration (Part 2-Implementation)	3a, 14a, 6	\$5,080,000		TLCPA	GLRI via U.S. EPA	Awaiting Allocation	11
SiC-13.0	Instream and Riparian Projects in the Lacustuary of Ottawa River (pending - sampling results)	3a, 6, 14a	\$3,000,000		TBD within 1 yr of data	TBD	TBD	TBD
			\$12,098,515	\$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	10 of 20	all
			\$0	\$12,022,186				
^ = acquistion	Estimated Total AOC G	GLRI Funds =	\$36,077,226	\$12,543,456	= Estimated Total Nor	n-AOC GLRI Funds		
* = acqusiiton or easement	Estimated <u>Total Cost</u> = Estimated <u>Funding Needed</u> =		\$48,620	,682				
* = concept plan			\$12,098,515					
				-				

Estimated Percentage of Non-AOC Funds Leveraged = 25.8%

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

Updated 8/4/22

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.

Acreage Funding Funding Funding Funding 1-16 Magee Marsh State Wildlife Area 1000 \$1,075,000 ODNR-Wildliff COMPLETE 4-16 Irwin upland site 5 (Griswold property) 20 \$150,000 Metroparks CCMPLETE 6-16 Habitat Restoration Plans 0 \$400,000 Obita FPA CCMPLETE 7-16 Maumee State Forest site 1 (Corter and Rusin-1 property) 25 \$256,1668 ODNR-Forestry, CCMPLETE 8-16 Maumee State Forest site 2 (Hight welland & forest property) 75 \$99,322 ODNR-Forestry, CCMPLETE 9-16 Maumee State Forest site 3 (Hight upland & flatwoods property) 85 \$95,000 ODNR-Forestry, CCMPLETE 10-16 Irwin wet prairie site 3a (Neyland property) 10 \$97,300 Metroparks CCMPLETE 11-16 Irwin wet prairie site 3a (Neyland property) 31.8 \$300,000 Metroparks CCMPLETE 22-17 For Property Restoration Project <th>VIETE-U Acreage Funding Punding Implementer Funding Implementer Funding Implementer Funding Funding Implementer Funding Funding</th> <th>ID</th> <th>Project name (Site name)</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	VIETE-U Acreage Funding Punding Implementer Funding Implementer Funding Implementer Funding Funding Implementer Funding	ID	Project name (Site name)						
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24-17 Penn 7 Wetland Restoration 59 \$2,954,619 City of Toledo, GLC Funded (NOAA Partnership) 25-17 Howard Marsh Phase 2 240 \$4,272,000 Metroparks, DU Funded (NOAA Partnership) 28-17 Maumee State Forest Expansion 152 \$1,369,500 ODNR-Forestry Funded	17 Penn 7 Wetland Restoration 59 \$2,954,619 City of Toledo, GLC Funded (NOAA Partnership) 2022 17 Howard Marsh Phase 2 240 \$4,272,000 Metroparks, DU Funded (NOAA Partnership) Fall 202 17 Maumee State Forest Expansion 152 \$1,369,500 ODNR-Forestry Funded (GLRI via U.S. EPA) 7/23 17 Maumee Bay State Park Coastal Wetland 137 \$500,000 \$2,200,000 ODNR-Wildlife, Parks Funded (GLRI via U.S. EPA, H2Ohio) 6/23 S FUNDNG/FUNDING being PROCESSED Project Acreage Funding Needed Other Funding Proposed Implementer Funding Status Funding Status	15-16	Oak Savannah Expansion at Secor Metropark	39.3	\$510,000		Metroparks		2022
25-17 Howard Marsh Phase 2 240 \$4,272,000 DU (NOAA Partnership) 28-17 Maumee State Forest Expansion 152 \$1,369,500 ODNR-Forestry Funded	17 Howard Marsh Phase 2 240 \$4,272,000 DU (NOAA Partnership) Fall 202 17 Maumee State Forest Expansion 152 \$1,369,500 ODNR-Forestry Funded (GLRI via U.S. EPA) 7/23 17 Maumee Bay State Park Coastal Wetland 137 \$500,000 \$2,200,000 ODNR-Wildlife, Parks Funded (GLRI via U.S. EPA, H2Ohio) 6/23 S FUNDNG/FUNDING being PROCESSED Project Acreage Funding Needed Other Funding Proposed Implementer Funding Status	24-17	Penn 7 Wetland Restoration	59	\$2,954,619		,		2022
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	17 Maumee Bay State Park Coastal Wetland 137 \$500,000 \$2,200,000 ODNR-Wildlife, Parks Funded (GLRI via U.S. EPA, H2Ohio) 6/23 S FUNDNG/FUNDING being PROCESSED Project Acreage Funding Needed Other Funding Proposed Implementer Funding Status 6/23	28-17	Maumee State Forest Expansion	152	\$1,369,500			Funded	7/23
29-17 Maumee Bay State Park Coastal Wetland 137 \$500,000 \$2,200,000 ODNR-Wildlife, <i>GLRI via U.S. EPA, (GLRI via U.S. EPA,</i>	1751.9 \$14,053,119 \$3,447,297 S FUNDNG/FUNDING being PROCESSED Project Acreage Funding Needed Other Funding Proposed Implementer	29-17	Maumee Bay State Park Coastal Wetland	137	\$500,000	\$2,200,000	-	Funded (GLRI via U.S. EPA,	6/23
1751.9 \$14,053,119 \$3,447,297	Acreage Needed Funding Implementer Funding Status			1751.9	\$14,053,119	\$3,447,297		· · · ·	
NEEDS FUNDING/FUNDING DEING PROCESSED		NEEDS FUNDNG/FUNDING being PROCESSED						Funding Status	
			ALL Projects Funded						
3482.8 = Total Acres of Recommended MAPs				3427.0 -55.8	_	-	be Identified*		
3427.0 = BUI 14b Target Acreage			Estimated Total AOC		-	n	7	on-AOC GLRI Funds	
3427.0 = BUI 14b Target Acreage -55.8 = Remaining Acres that Need to be Identified*	-55.8 = Remaining Acres that Need to be Identified*		Estimate	d <u>Total Cost</u> =	\$27,20	06,256	-		
3427.0= BUI 14b Target Acreage-55.8= Remaining Acres that Need to be Identified*Estimated Total AOC GLRI Funds Estimated Total Cost= \$19,325,259\$7,880,997= \$27,206,256= \$27,206,256	-55.8 = Remaining Acres that Need to be Identified* Estimated Total AOC GLRI Funds = \$19,325,259 \$7,880,997 = Estimated Total Non-AOC GLRI Funds Estimated Total Cost = \$27,206,256 \$27,206,256		Estimated Fund	ling Needed =	\$	0	J		
3427.0 = BUI 14b Target Acreage -55.8 = Remaining Acres that Need to be Identified* Estimated Total AOC GLRI Funds = \$19,325,259 \$7,880,997 = Estimated Total Non-AOC GLRI Funds = \$19,325,259 \$7,880,997	-55.8 = Remaining Acres that Need to be Identified* Estimated Total AOC GLRI Funds = \$19,325,259 \$7,880,997 = Estimated Total Non-AOC GLRI Funds Estimated Total Cost = \$27,206,256 \$27,206,256								
3427.0= BUI 14b Target Acreage-55.8= Remaining Acres that Need to be Identified*Estimated Total AOC GLRI Funds Estimated Total Cost= \$19,325,259\$7,880,997= \$27,206,256= \$27,206,256	-55.8 = Remaining Acres that Need to be Identified* Estimated Total AOC GLRI Funds = \$19,325,259 \$7,880,997 = Estimated Total Non-AOC GLRI Funds Estimated Total Cost = \$27,206,256 = \$0 Estimated Funding Needed = \$0 Estimated Percentage of Non-AOC Funds Leveraged = 29.0%								

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

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 explaination of the BUI numbering.

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	US ACE (for GLNPO)	Remedy Confirmation Study - Reach 1	Complete (2019)	\$446,723	-	\$446,723	19
	(Reaches 1 - 4 area)	ORD (for GLNPO)	Remedy Effectiveness Study - Reach 2-4	In Progress	\$1,100,000	-	\$1,100,000	20
			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)	GLNPO	SLERA	Complete (2019)	-	-	-	19
	(Phase 1 & 2 area)		Data Gap Investigation	In Progress	\$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	US ACE (for GLNPO)	SLERA	Complete (2019)	-	-	-	20
	(Phase 1 area)		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	In Progress	\$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	US ACE (for GLNPO)	SLERA	Complete (2019)	-	-	-	20
	(within Phase 2 area)		Data Gap Investigation	In Progress	\$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
te: Italiized f	unding are rough estimates				\$59,107,323	\$29,890,000	\$88,997,323	
	Completed Ta	sks = \$12,446,723	In Progress/Funded Tasks =	\$4,050,600		Needs Funding	g/Pending Tasks =	\$72,500,000

Completed Tasks = \$12,446,723	In Progress/Funded Tasks = \$4,050,600	Needs Funding/Pending Tasks = \$72,500,000

Cost Share P	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 (TLCPA)	H2Ohio (SFY20-Phase 1)	Complete (2021)	-	\$203,429	Oct. 2020	2021
CS-02	Grassy Island Flow Through Wetland	Toledo/Lucas Co Port Authority	H2Ohio (SFY20-Phase 1)	Complete (2021)	-	\$531,629	Oct. 2020	2021
CS-03	Maumee Bay State Park (29-17)	TNC	H2Ohio (SFY20-Phase 1)	In Progress	-	\$2,200,000	Oct. 2020	2022
CS-4A	Ottawa NWR Nearshore Habitat Restoration (CrC-4.0)	Ottawa SWCD	H2Ohio (SFY20-Phase 1)	In Progress	-	\$650,000	Oct. 2020	2022
CS-4B	Turtle Creek Bay (Magee Marsh) Reconnection (TuC-20.0)	Erie SWCD	H2Ohio (SFY20-Phase 1)	In Progress	-	\$600,000	Oct. 2020	2022
CS-13	Oak Openings Preserve Metropark Wetland Expansion	Metroparks Toledo	H2Ohio (SFY20-Phase 1)	In Progress	-	\$867,000	Oct. 2020	2022
CS-25	VanOrder Woodland and Wetland Restoration	ODNR - Forestry	H2Ohio (SFY20-Phase 1)	In Progress	-	\$363,476	Oct. 2020	2022
CS-26	Navarre Marsh Wetland Restoration & Reconnection	Ducks Unlimited	H2Ohio (SFY20-Phase 1)	In Progress	-	\$950,000	Oct. 2020	2022
CS-12	Mallard Club Wildlife Area Wetland Connection	Ducks Unlimited	H2Ohio (SFY20-Phase 2)	In Progress	-	\$767,071	June 2021	2024
CSM-15	Maumee River Shoreline Acquisition	Metroparks Toledo	Metroparks Toledo General Fund	Complete (2021)	-	\$1,833,350	June 2021	2021
CSM-16	Oak Openings Preserve Metropark Wetland Expansion (PART 2 of CS-13)	Metroparks Toledo	Clean Ohio Fund District 12 (SFY20)	In Progress	-	\$483,625	June 2021	2022
CSM-17	Oak Openings Corridor Swamp Forest Protection (<i>Reed</i>)	Metroparks Toledo	Clean Ohio Fund District 12 (SFY21)	In Progress	-	\$584,000	June 2021	2022
CSM-18	Ravine Park Acquisition and Restoration (Garfield Greenway)	Metroparks Toledo	Clean Ohio Fund District 12 (SFY21)	In Progress	-	\$271,368	June 2021	2022
CSM-19	Swan Creek Preserve Expansion	Metroparks Toledo	Clean Ohio Fund District 12 (SFY21)	In Progress	-	\$162,005	June 2021	2022
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	2022
CS-36	Duck Creek Wetland and Stream Restoration	Toledo/Lucas Co Port Authority	H2Ohio (SFY21-Phase 3)	In Progress	-	\$1,800,000	June 2021	2024
CS-4C	Toussaint Shooting Club Reconnections	Ottawa SWCD	H2Ohio (SFY21-Phase 3)	In Progress	-	\$2,418,000	June 2021	2023
	•					\$15,304,953		

Beneficial Use Impairments Restrictions on Fish & Wildlife Consumption BUI 1: Eutrophication or Undesirable Algae BUI 8: BUI 2: Tainting of Fish and Wildlife Flavor Restrictions on Drinking Water Consumption or Taste & Odor Problems BUI 9: BUI 3: Degradation of Fish & Wildlife Populations Beach Closings (Recreational Contact) BUI 10: BUI 4: Fish Tumors or Other Deformities BUI 11: Degradation of Aesthetics BUI 5: Bird or Animal Deformities or Reproductive Problems Added Costs to Agriculture or Industry BUI 12: Degradation of Benthos Degradation of Phytoplankton and Zooplankton Populations BUI 6: BUI 13: Loss of Fish & Wildlife Habitat BUI 7: Restrictions on Dredging Activities BUI 14:

Date

Laurie Stevenson, Director Ohio Environmental Protection Agency P. O. Box 1049 Columbus OH 43216-1049 Joy Mulinex, Executive Director Ohio Lake Erie Commission P.O. Box 1049 Columbus OH 43126-1049

RE: Removal of Beneficial Use Impairment for Restrictions on Fish and Wildlife Consumption

Dear Directors Stevenson and Mulinex,

The Maumee Area of Concern (AOC) Advisory Committee has reviewed the Recommendation document for the removal of the beneficial use impairment for Restrictions on Fish and Wildlife Consumption (BUI 1).

The Maumee AOC Advisory Committee supports the Ohio AOC program through the Ohio Lake Erie Commission and Ohio EPA in recommending the removal of this BUI and its submittal to U.S. EPA's Great Lakes National Program Office (GLNPO) for their approval.

With the removal of this BUI, the following impairments currently remain in the Maumee AOC.

- BUI #3: Degradation of Fish & Wildlife Populations
- BUI #4: Fish Tumors or Other Deformities
- BUI #6: Degradation of Benthos
- BUI #7: Restrictions on Navigational Dredging Activities
- BUI #8: Eutrophication or Undesirable Algae
- BUI #10: Beach Closings (Recreational Contact)
- BUI #11: Degradation of Aesthetics
- BUI #14: Loss of Fish & Wildlife Habitat

The Maumee AOC Advisory Committee looks forward to continuing to work in coordination with the Ohio AOC program with these remaining BUIs and the work necessary for their removal.

Sincerely,

Mike Pniewski, Chair, Maumee AOC Advisory Committee

cc: Lynn Garrity, OLEC Cherie Blair, Ohio EPA



City of Toledo Division of Environmental Services

AOC Projects

MAAC, August 11, 2022

Edith Kippenhan, Environmental Services, City of Toledo LaShawna Weeks, Environmental Services, City of Toledo Marisa Stewart, Environmental Services, City of Toledo

Toledo Maumee AOC Projects

- Bandore Park Stream and Wetland Restoration
- Detwiler Park Restoration
- Collins Park Restoration Feasibility Study
- Jermain Park Stream Restoration
- Detwiler Golf Course Stream Restoration
- > Coming soon:
 - Delaware Creek Phase II



AOC Goals:

Permanently improve water quality of the rivers and streams in the AOC by correcting and removing biological or chemical issues (BUIs).

Location of Projects

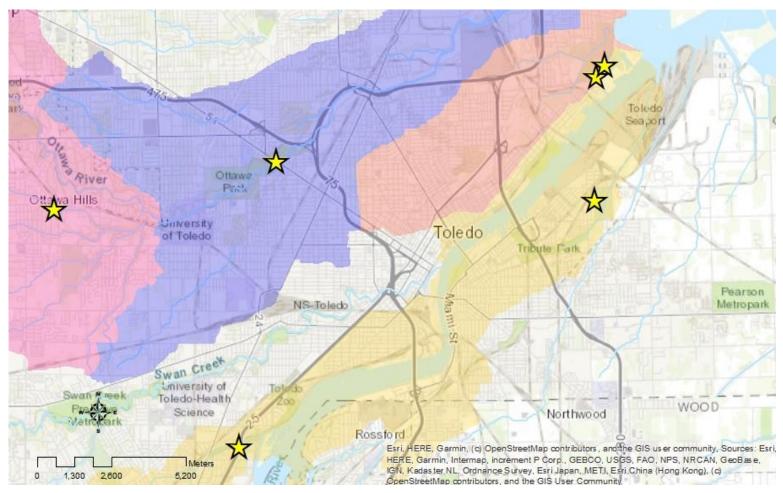
Legend

🛠 Project Locations

HUC12 Watershed

Delaware Creek-Maumee River Detwiler Ditch-Frontal Lake Erie Heldman Ditch-Ottawa River Sibley Creek-Ottawa River

City of Toledo Maumee AOC Projects





Bandore Park

- Stream and Wetland Restoration
- > 319 grant: \$299,610
- ➢ AOC GLRI grant: \$130,000
- City roadway project: \$130,000

- Address eroding streambanks by creating vegetated floodplain bench, improve sinuosity of channel, and add in-stream habitat features.
- Addresses BUI 6, 14a







Detwiler Park Restoration

- Stream and Wetland Restoration
- ➢ 319 grant: \$472, 333
- > Match:

\$314, 866





Restore natural stream channel morphology, connect stream to floodplain & wetlands, create instream habitat

Addresses BUI 3 – degradation of fish & wildlife population, BUI 6 – degradation of benthos, BUI 14 – loss of fish & wildlife habitat

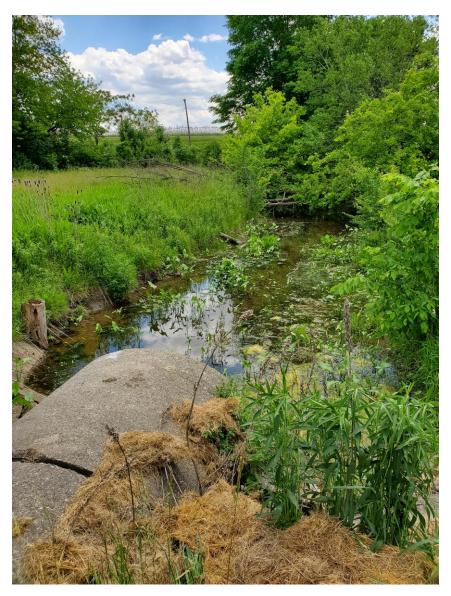


Collins Park Restoration Feasibility Study

- > NOAA funding \Rightarrow GLC \Rightarrow City of Toledo
- > \$175,500 for Feasibility Study
- Activities will develop a plan to restore fish habitat

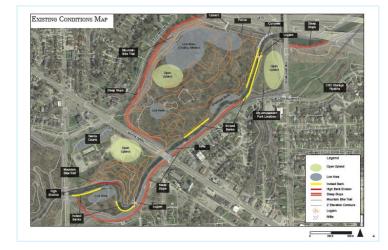
Regrading and creating streambank benches between culverts on Duck Creek. Create wetland channel in the upstream end of Duck Creek.





Restoration of the Ottawa River in Jermain Park

- Stream and Wetland Restoration
- Management Action in Progress
- Project Funding: \$614,147
- Anticipated Restoration activities include:
 - Enhancing 2.7 acres of wetland
 - Stabilizing 2,300 feet of eroding streambank
 - Enhancing 750 feet/ 1.5 acres of riparian buffer





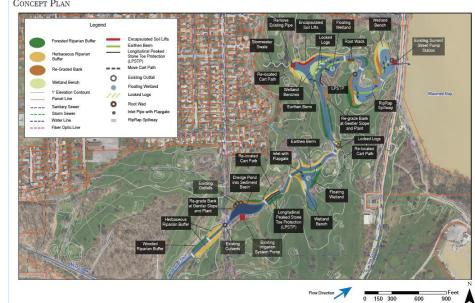
Addresses BUI 3, 6 and 14a



Detwiler Golf Course Stream

- Stream Restoration
- Management Action Needs Funding
- Project Funding Request: \$1,000,000
- > Anticipated Restoration activities include:
 - Improve Benthic Habitat in Detwiler Ditch
 - Restore approx. 0.8 acres of wetland habitat
 - Address 2,100 LF of eroding streambank
 - Restore 6,200 LF of riparian buffer

Addresses BUI 6







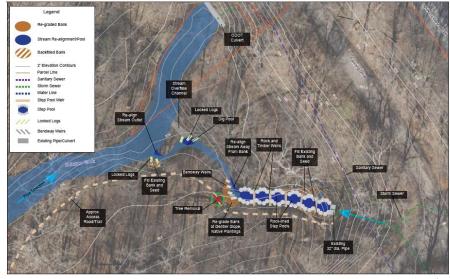
Delaware Creek Phase II

- Stream Restoration
- > AOC GLRI grant: \$500,000
- Construction slated for late 2024
- Culvert downstream slated for work 2024

- Address eroding streambanks by installing a series of pools, bank stabilization, and add instream habitat features.
- Addresses BUI 6, 14a



DELAWARE CREEK TRIBUTARY RESTORATION CONCEPT PLAN

















METROPARKS

















Some of these projects were made possible by the City of Toledo receiving financial support from the United States Environmental Protection Agency (EPA) via the Great Lakes Restoration Initiative.

Some of these projects were made possible by the City of Toledo receiving funding from the NOAA Restoration Center and Great Lakes Restoration Initiative.

These projects were made possible because they are located within the Maumee Area of Concern, and are priority projects for aquatic populations and habitat.



THANK YOU FOR YOUR TIME TODAY.

