

Wolf Creek Stream  
Restoration at Oregon  
Recreation Complex (BD –  
2.0)



Otter Creek Stream  
Restoration in Maumee  
AOC (OC – 3.2, OC –  
3.3)

Project Updates

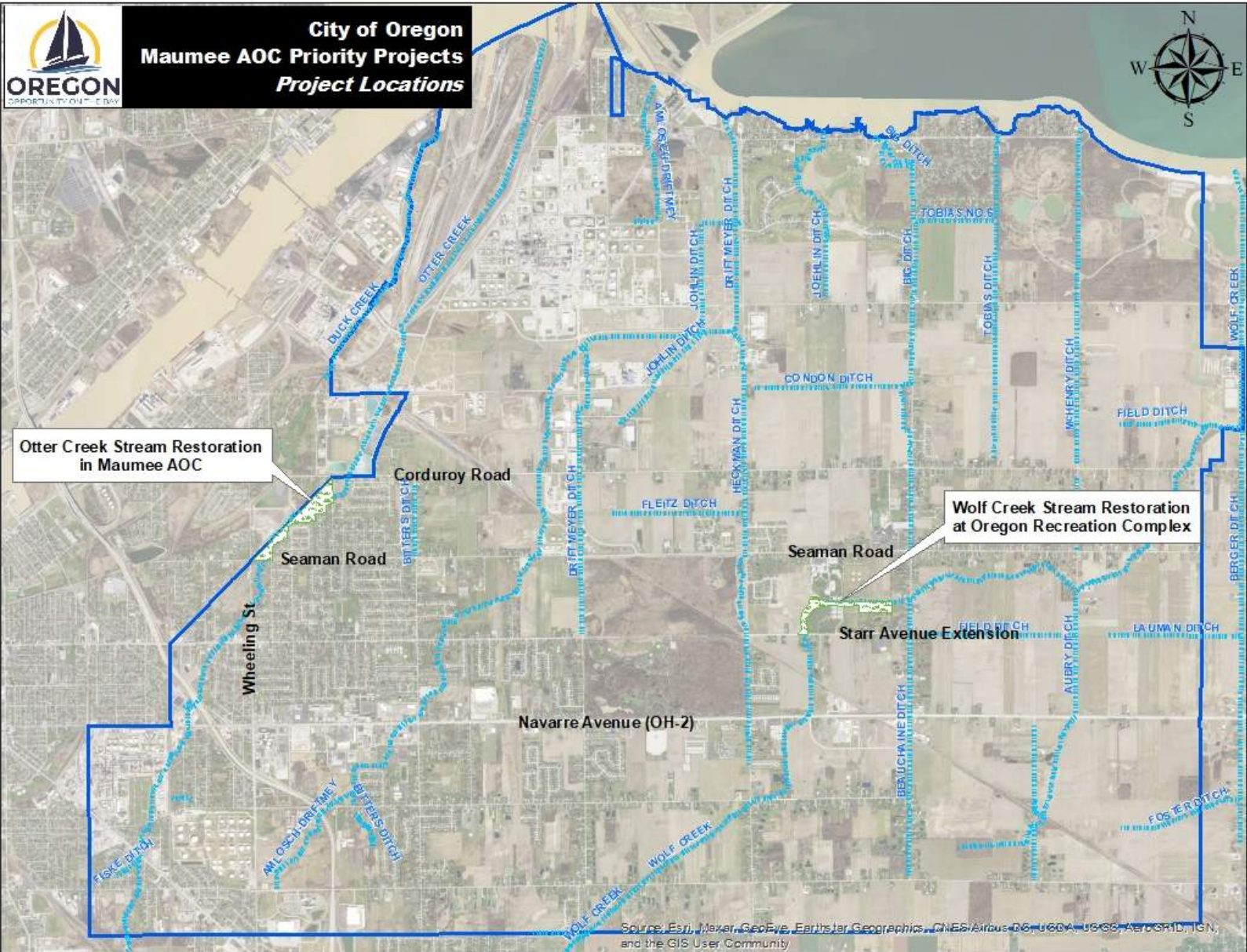
Maumee AOC Advisory  
Committee Quarterly  
Meeting – June 9<sup>th</sup>, 2022

Don Nelson  
Environmental Specialist  
City of Oregon





# Project Locations – City of Oregon





# Stream Restoration at Oregon Recreation Complex – Existing Conditions

- Oregon Recreation Complex
- OEPA monitoring completed in 2017 just downstream of project site (Stadium Road)
- Wolf Creek found to be in non-attainment for BUI 6 – Degradation of Benthos and BUI 14a – Loss of Fish Habitat
- QHEI of 29 poor, ICI invertebrate community score of 6 (very poor) for benthic communities
- Steep almost vertical stream banks, active erosion, silt cover and embeddedness, no floodplain
- More or less has become an ag drainage ditch – invasives, etc



*Channelized and steep banks, Wolf Creek flows through the City of Oregon's Recreation Complex, located off of Starr Avenue Extension*



# Proposed Plan of Restoration

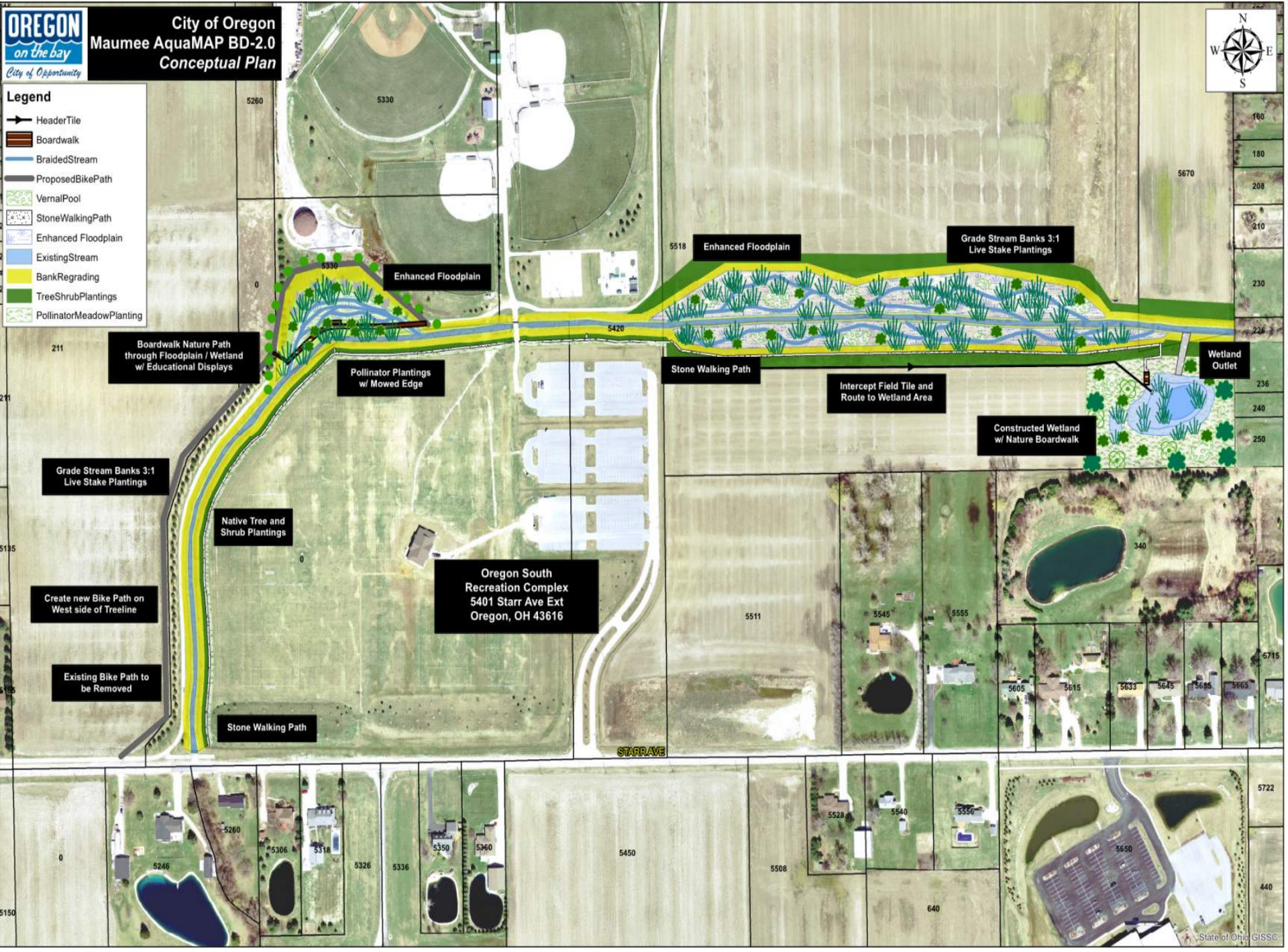
- City of Oregon Property
- Two-stage channel design to widen floodplain access
- Regrade stream banks to 3:1 side slope for stability
- Restore approximately 3.5 ac of floodplain habitat
- Install 2.5 acres of riparian upland area
- Intercept ag field tile and route through created wetland system prior to discharge to Wolf Creek
- Public Access & Education
  - Walking path







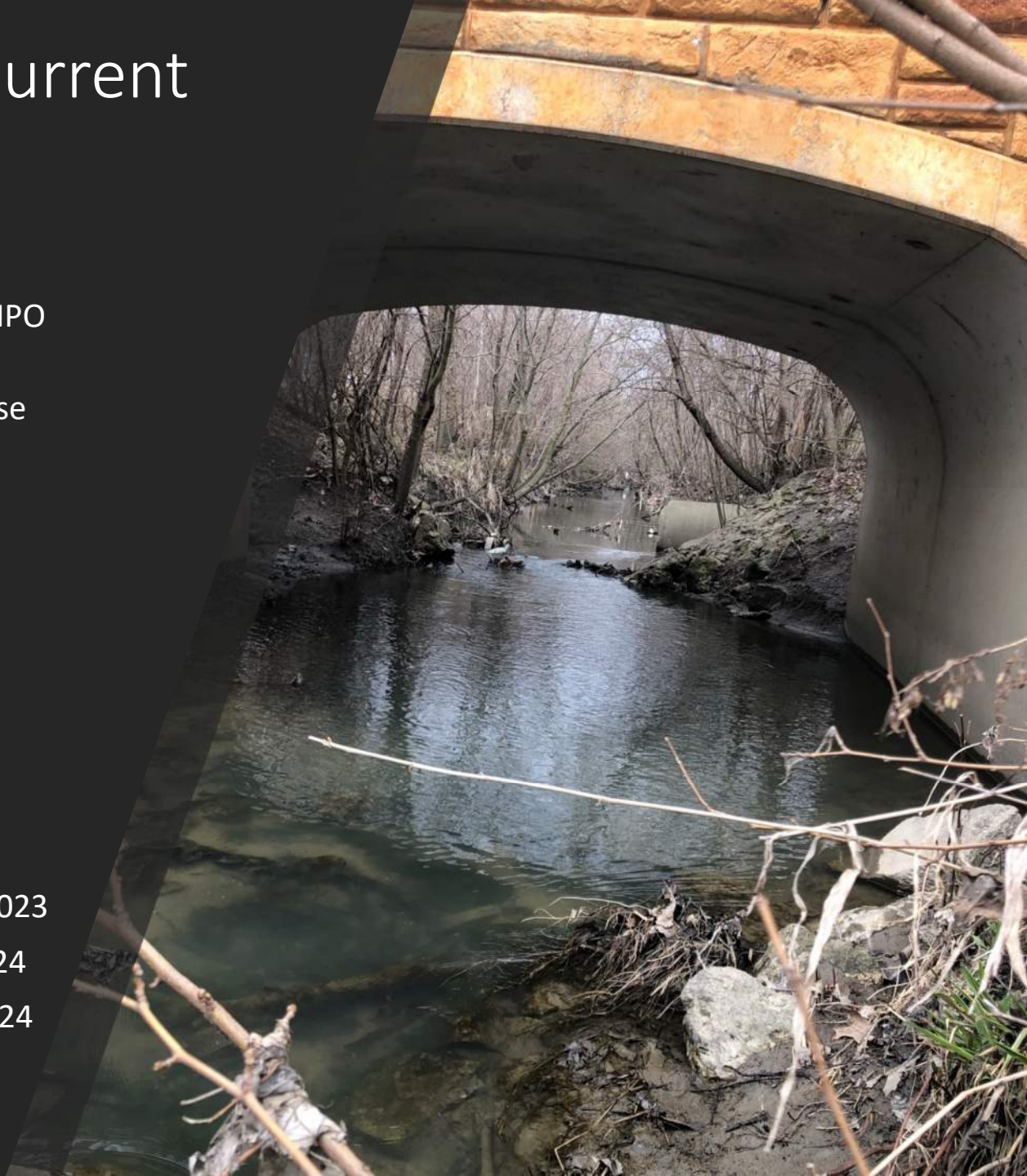
- Legend**
- HeaderTile
  - Boardwalk
  - BraidedStream
  - ProposedBikePath
  - VernalPool
  - StoneWalkingPath
  - Enhanced Floodplain
  - ExistingStream
  - BankRegrading
  - TreeShrubPlantings
  - PollinatorMeadowPlanting





# Wolf Creek - Current Project Status

- Project was funded through GLNPO GLRI in July of 2021
- Currently in the final design phase
- QAPP Conditionally approved
- Field work taking place
  - Survey
  - Geotech borings
  - Wetland delineation
  - Ecological determinations
- Design to be completed by December 2022
- Bid in Spring 2023
- Construction Summer and Fall 2023
- Plantings and warranty work 2024
- Grant period ends December 2024



# Otter Creek Stream Restoration in Maumee AOC – Existing Conditions

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OEPA monitoring completed in 2017 just downstream of project site (Corduroy Road)

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Otter Creek found to be in non-attainment for BUI 6 – Degradation of Benthos and BUI 14a – Loss of Fish Habitat

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QHEI of 41.5 below 43 goal, ICI invertebrate community score of 6 (very poor) for benthic communities

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Active stream bank erosion, silt cover and embeddedness, lack of instream structure, riffles etc., flashy flows

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Classic urban stream with multiple MS4 outfalls in area, draining 53 acres of urban area, no detention or retention

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*Recovering channel within large adjacent floodplain area, bare stream banks contributing to sediment loading and silt cover of channel bottom*





# Proposed Plan of Restoration

- Property Acquisition – Four (4) Landowners
- Streambank stabilization by grading, live stake planting, and utilization of instream structures such as rootwads
- Establishment of instream habitat structures such as riffles and pools
- Reestablishment of connection to adjacent floodplain area
- Enhancement of existing approximate 4 acre wetland adjacent to creek
- Divert 53 acres of urban stormwater drainage to proposed forebay ponds and stormwater wetland system to reduce stream flow velocities, sediment and nutrient discharge
- Public Access – Walking Path



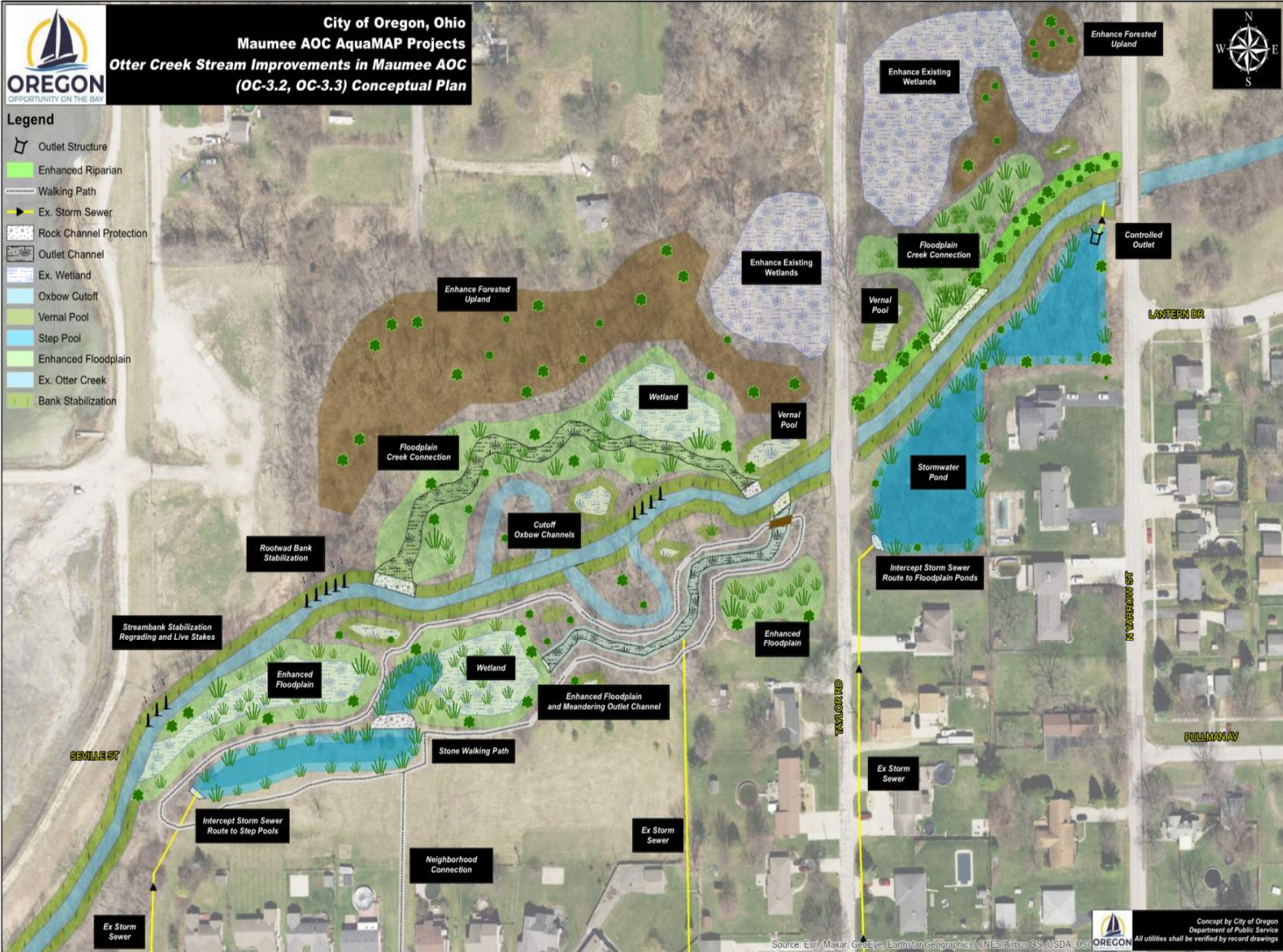


**City of Oregon, Ohio**  
**Maumee AOC AquaMAP Projects**  
**Otter Creek Stream Improvements in Maumee AOC**  
**(OC-3.2, OC-3.3) Conceptual Plan**



**Legend**

- Outlet Structure
- Enhanced Riparian
- Walking Path
- Ex. Storm Sewer
- Rock Channel Protection
- Outlet Channel
- Ex. Wetland
- Oxbow Cutoff
- Vernal Pool
- Step Pool
- Enhanced Floodplain
- Ex. Otter Creek
- Bank Stabilization







# Otter Creek - Current Project Status

- Project was selected for funding and application has gone through review locally and at US EPA
- Following reviews City was asked to submit into Grants.gov
- Awaiting further review from Grants.gov submittal
- Working on Section 106 Review Application in meantime
  - Ohio Historic Preservation Office: Resource Protection and Review application
- Similar timeline to Wolf Creek Project (1 year behind)
  - Design 2023
  - Construction 2024
  - Warranty tree planting 2025
  - Finalize December 2025



# Thanks!!

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