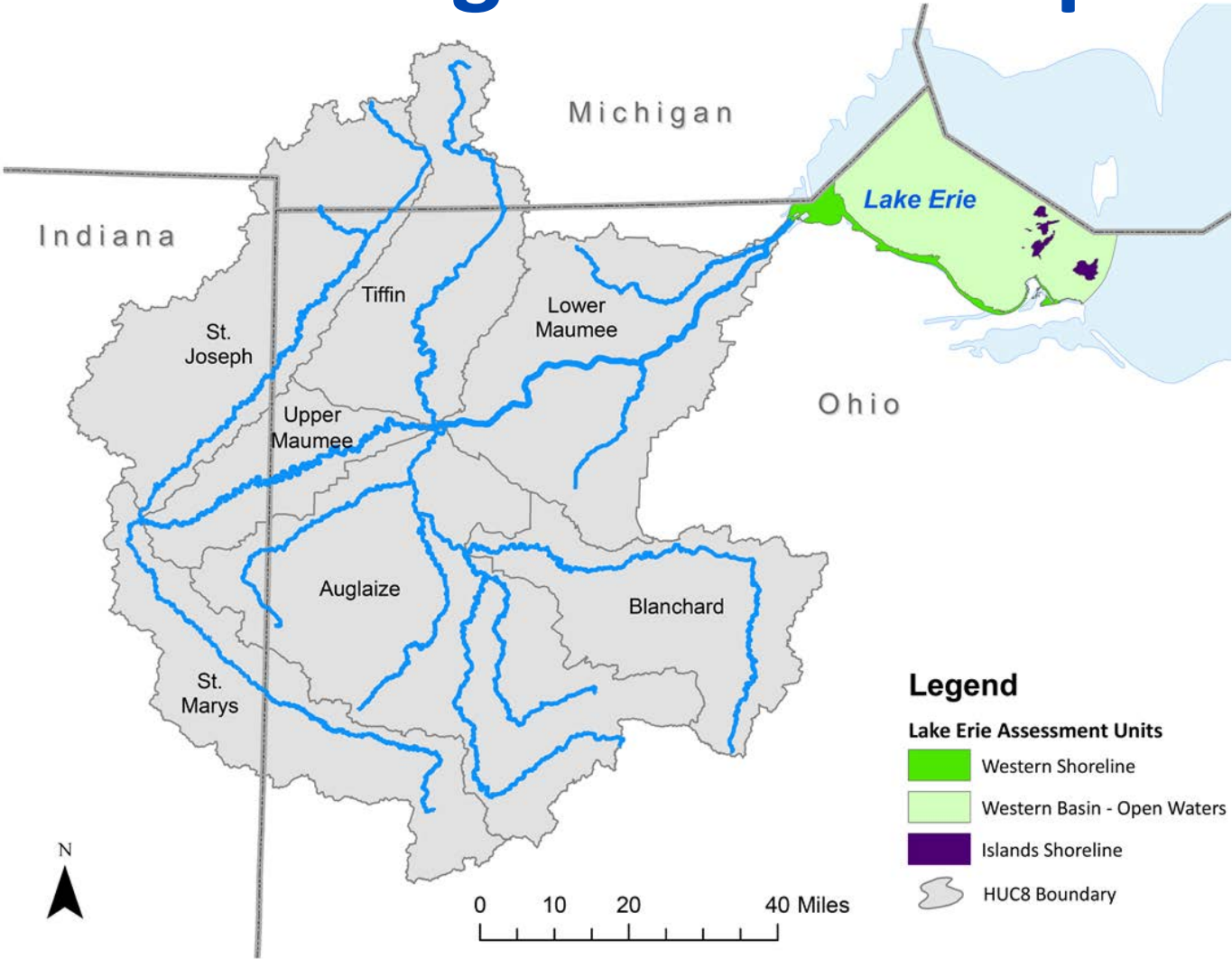


# Maumee Watershed Nutrient TMDL Project: Addressing Lake Erie Impairments



January Webinar  
January 20, 2022

A recording of this presentation will be available on Ohio EPA's website soon.

# Project Team

- Tiffani Kavalec, Ohio EPA
- Melinda Harris, Ohio EPA
- Josh Griffin, Ohio EPA
- Paul Gledhill, Ohio EPA
- Heidi Griesmer, Ohio EPA
- Kirk Hines, Ohio Department of Agriculture
- Eric Saas, Ohio Department of Natural Resources
- Ohio Lake Erie Commission
- TetraTech Support

# How Today's Webinar Questions Will Work

- Please use the Q&A box to ask questions at any time
- Questions asked in the Q&A box won't appear to the public, but staff will see all questions sent in by participants

# How Today's Webinar Questions Will Work

**Note:** Audience members' microphones are muted. The "raise hand" function is also disabled. Please use the Submit Questions function to receive technical assistance, ask questions, or submit comments.

Submit Questions



View Handouts



# How Today's Webinar Questions Will Work

- Staff will answer questions after the presentation
  - Some questions may be incorporated into the Maumee Watershed Nutrient TMDL Frequently Asked Questions (FAQ) document
  - Some questions may address management decisions that have not been made; those questions will not be addressed today

# Meeting Outline

- General Project Updates
- Outline for the Preliminary Modeling Results
- Schedule and Outreach Plan
- Questions from webinar participants

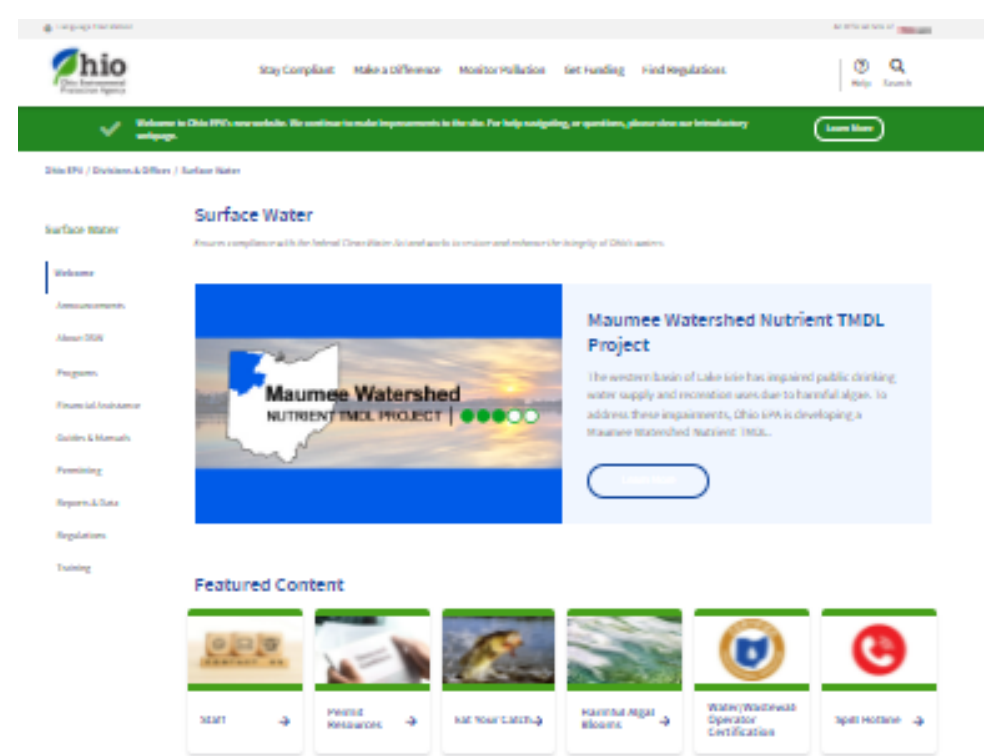
# Project Updates - Website

Ohio EPA has a new website!

- Work in progress
- New navigation & new links
- Old information still available

New Links:

- TMDL Program page: <https://epa.ohio.gov/wps/portal/gov/epa/divisions-and-offices/surface-water/reports-data/total-maximum-daily-load-tmdl-program>
- Maumee Watershed Nutrient TMDL tab available on: <https://epa.ohio.gov/wps/portal/gov/epa/divisions-and-offices/surface-water/reports-data/maumee-river-watershed>



# Project Updates – Final LAP Published

- Final LAP and Response to Comments was posted on Jan. 14
- Updates to final LAP
  - Revised discussion on project scope
  - Revised discussion on model selection
  - Added appendix on dissolved reactive phosphorus



# Project Updates – FAQ

- Written as introductory document
- Questions organized into three areas
  - Understanding TMDLs in Ohio
  - Understanding water quality in Ohio
  - Questions about the Maumee Watershed Nutrient TMDL
- We will continue to add to this document as we move through the TMDL project

# Preliminary Modeling Results

- Must include:
  - Results of the calculations
  - Any management choices
  - Permit limits to achieve WLAs
  - Preliminary implementation plan



# Preliminary Modeling Results - Framework

- Background
- The role and sources of phosphorus
  - Linking phosphorus to the impairment
  - Source assessment
    - Nonpoint sources (fertilizer, manure, legacy, and streambank erosion)
    - NPDES permitted sources
    - Home sewage treatment systems
    - Etc.

# Preliminary Modeling Results - Framework

- **Analysis Methods**
  - Description of Modeling Method
  - Sources of data
  - Calibration and Validation
  - Margin of Safety
  - Allowance for Future Growth

# Preliminary Modeling Results - Framework

- **Results** – present the final TMDL calculations
  - $TMDL = \Sigma WLA + LA + MOS + AFG$
- **Preliminary Implementation Plan**
  - Present options for implementation for stakeholder input

# Preliminary Modeling Results - Framework

- **Preliminary Implementation Plan**

- Point Sources (WLA) - includes treatment facilities, MS4 communities, Discharging HSTS, and categorical stormwater

- Permitting scheme
    - Permit Limits required to achieve WLA
    - Schedules
    - Funding/Cost

# Preliminary Modeling Results - Framework

- **Preliminary Implementation Plan**

- Nonpoint Sources (LA) included loads from agriculture, onsite HSTS, streambank erosion, non-categorical stormwater, etc.

- Level of implementation required
    - Water quality planning
    - Funding/Cost

- Options for Tracking Water Quality Improvements and Adaptive Implementation

# Preliminary Modeling Results - Framework

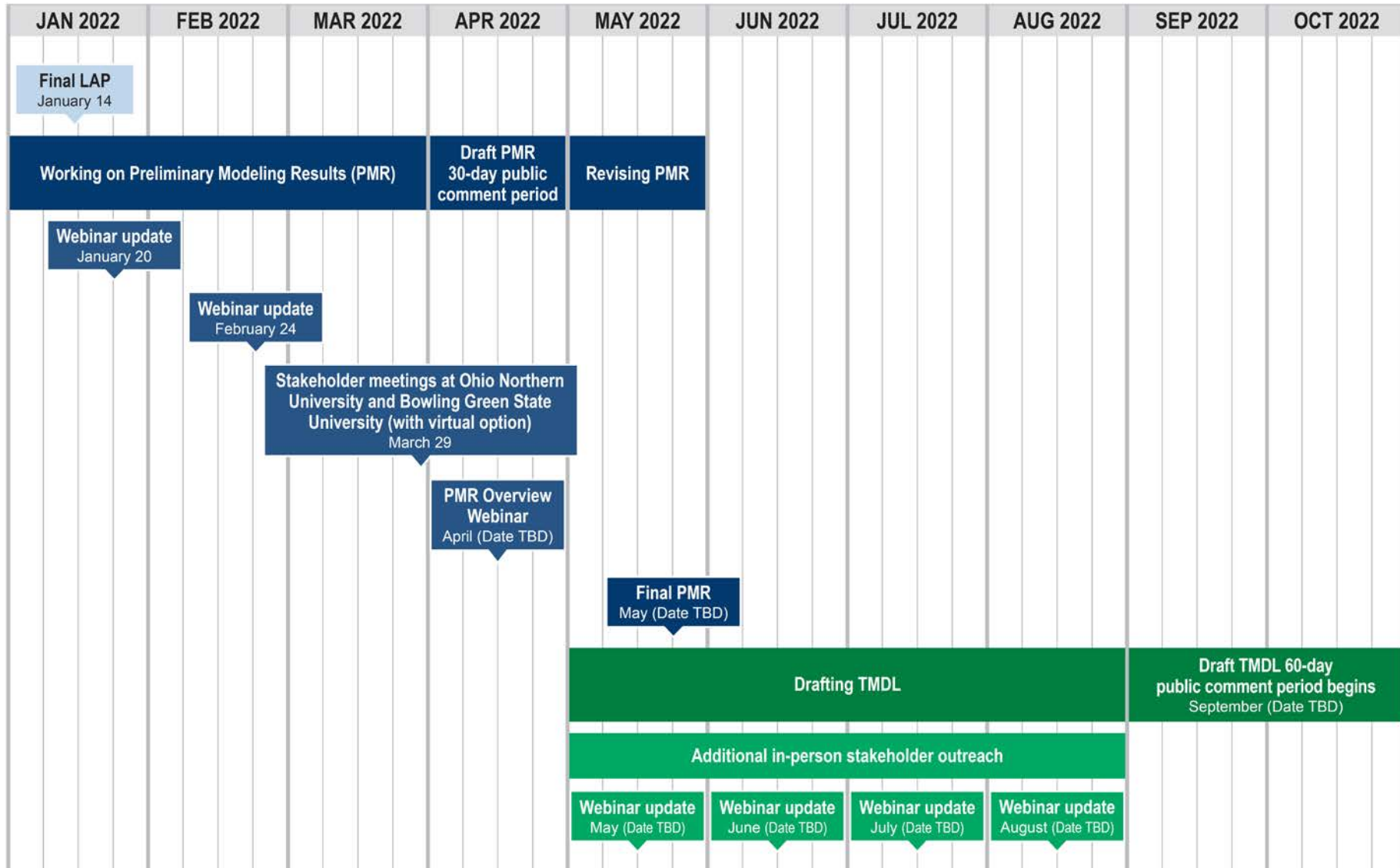
- Preliminary Reasonable assurance discussion
- Summary of additional considerations made as required by Ohio law
  - New law effective 2017 (ORC 6111.561 through ORC 6111.564)
  - Administrative rule in 2019 (OAC 3745-2-12)



# Outreach Plan

- Monthly outreach will continue (webinars and/or in-person)
  - February’s webinar will present work that we accomplish on the PMR over the next month along with any other project updates
- Focus groups and/or workgroups will be utilized as needed

# Updated Project Timeline



Updated on 1/20/2022

# Questions

- Please enter questions into the Q&A pane of the webinar
- Reminder if you are not on our listserv to receive project updates please go to this link:

[https://ohioepa.custhelp.com/app/utils/login\\_form/redirect/account%252Fprofile](https://ohioepa.custhelp.com/app/utils/login_form/redirect/account%252Fprofile)