

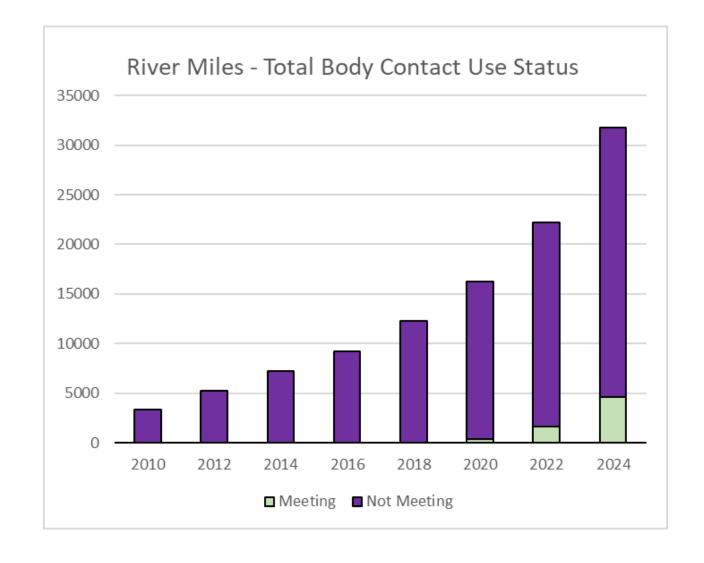
Molly Rippke

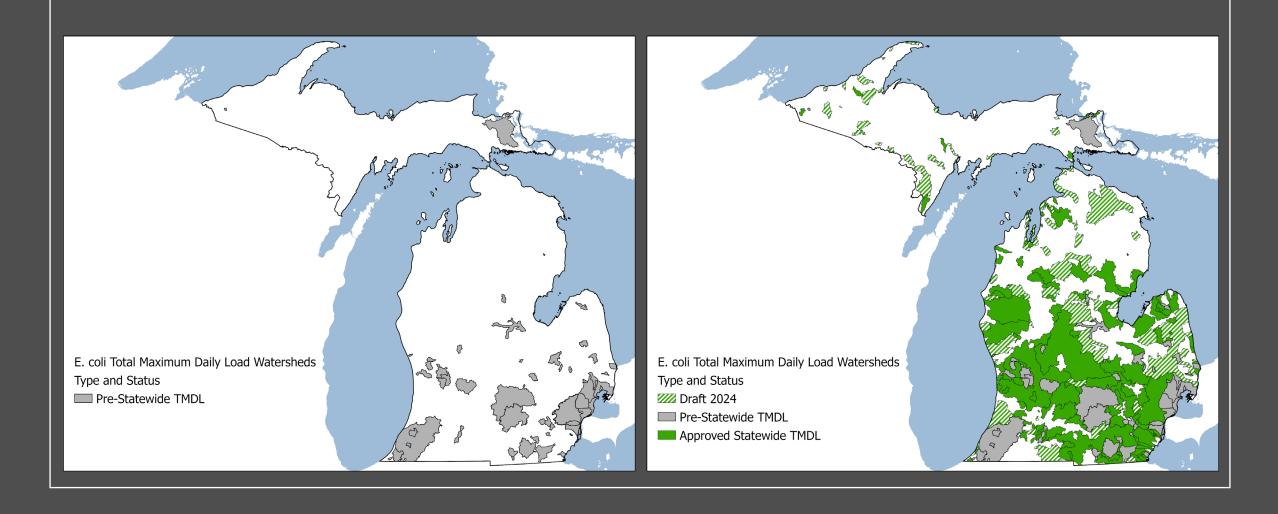
Michigan Department of Environment, Great Lakes, and Energy. Water Resources Division

(Image courtesy of the Earth Science and Remote Sensing Unit, NASA Johnson Space Center)

Michigan's 303d/TMDL Vision "1.0"

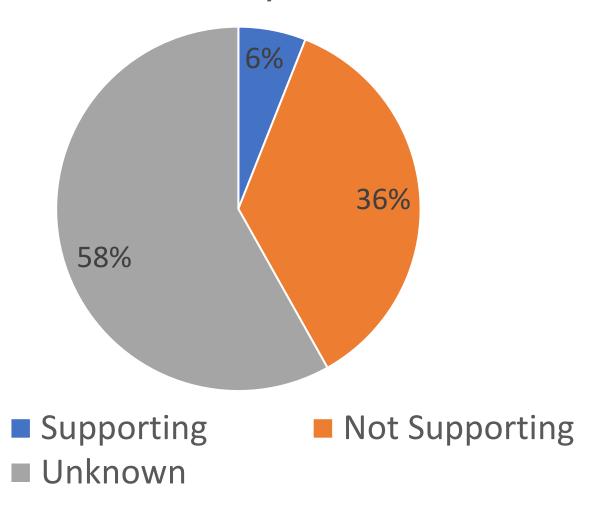
- Clean recreational water is important to public health and our economy
- Develop a Statewide E coli TMDL to address a growing number of known impairments.
- Speed up TMDL development and implementation in NPDES permits
- Assess waters more rapidly

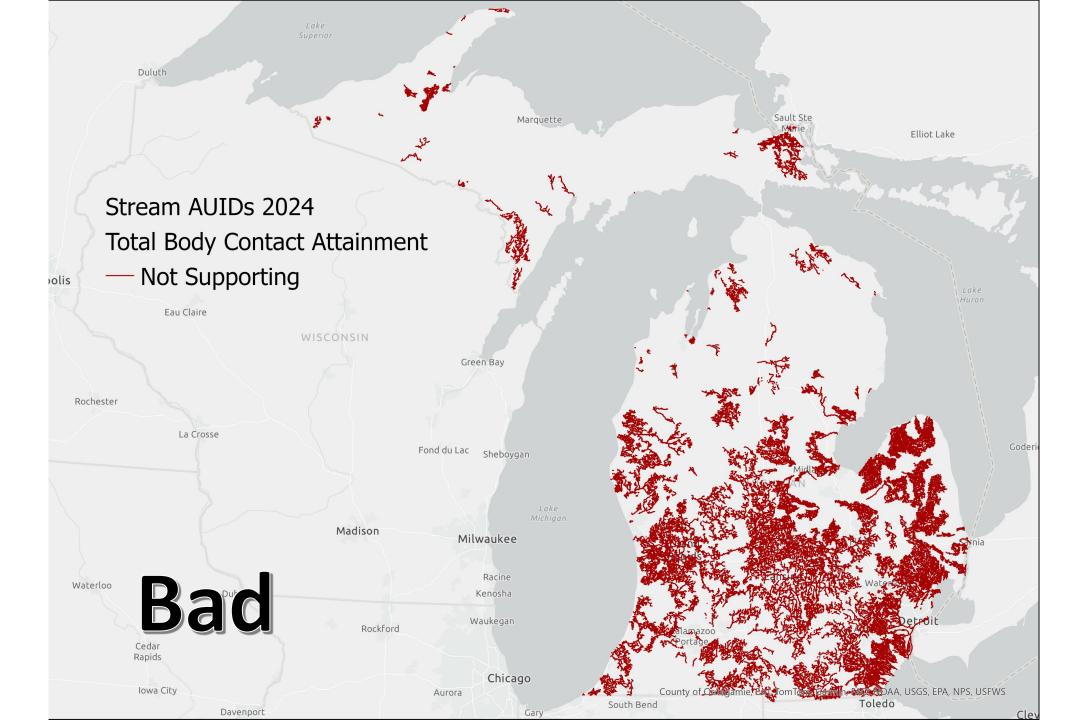


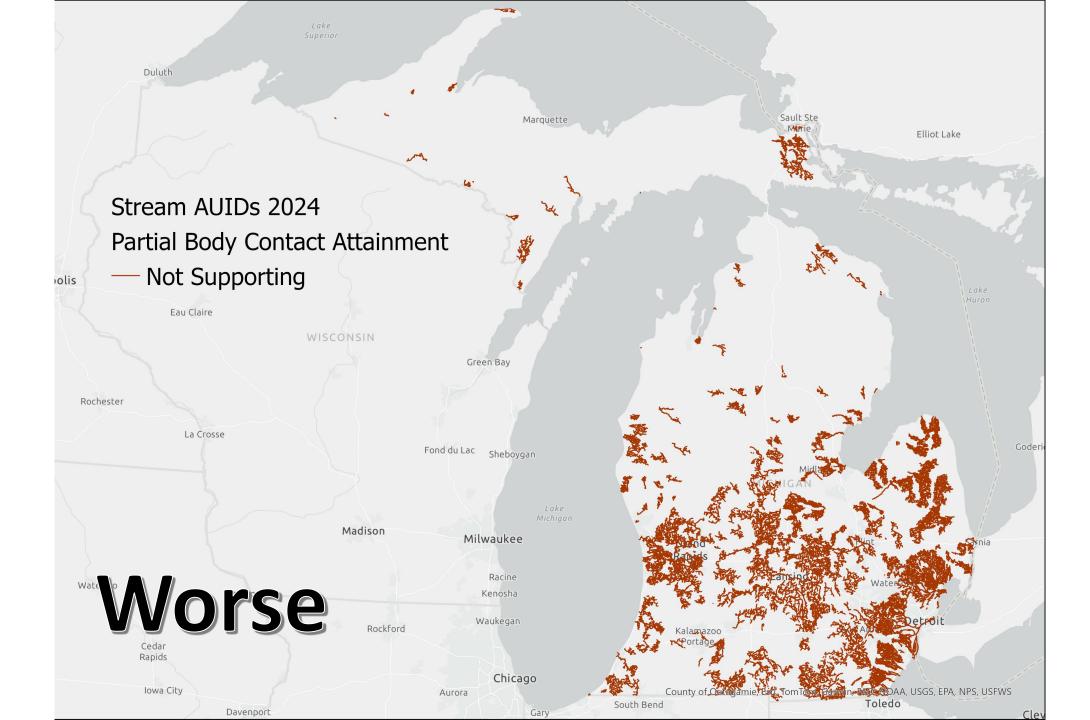


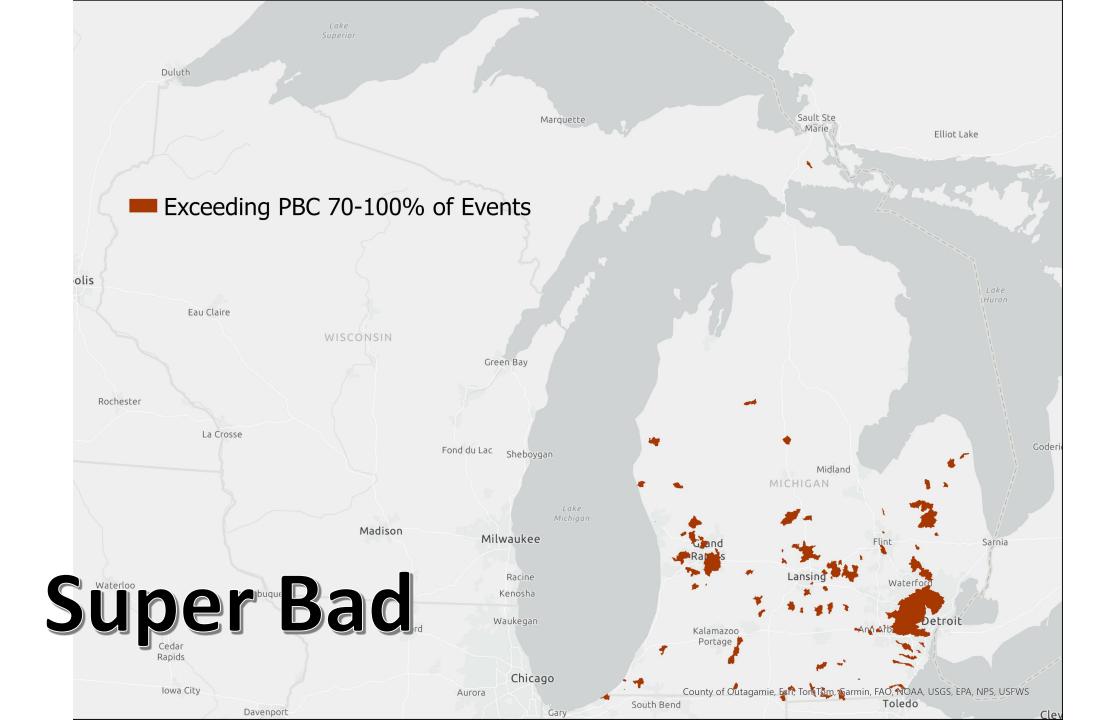
2024

Assessment Status of River Miles - Total Body Contact Use

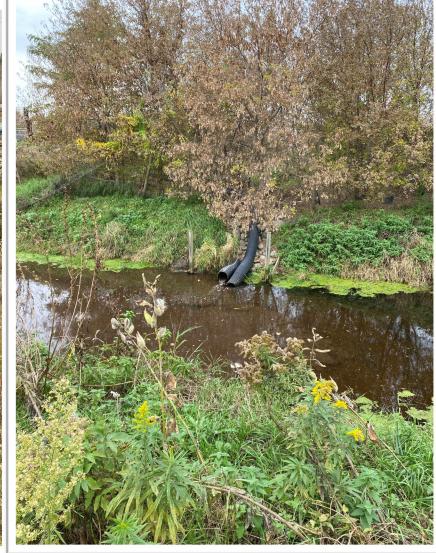








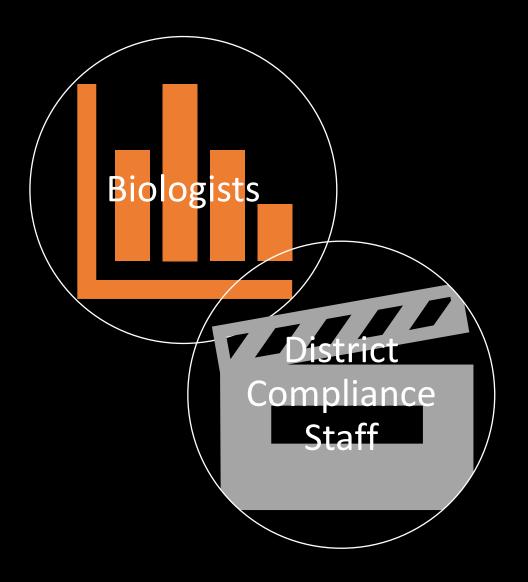




Nearly missed opportunities to identify problems in a severely impaired water

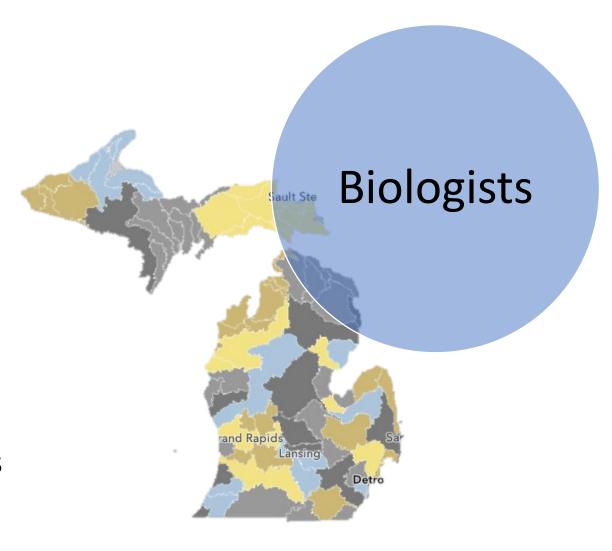
Problem:

How do we communicate major water quality issues that biologists find and turn our data into action?



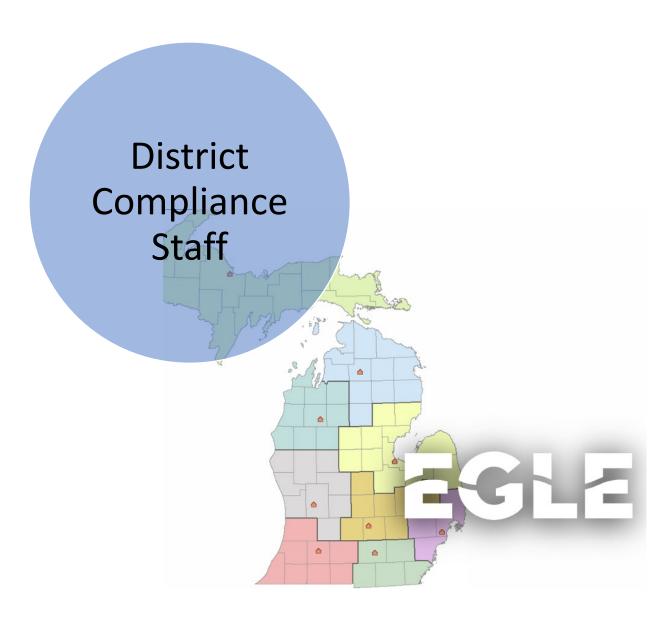
Biologists

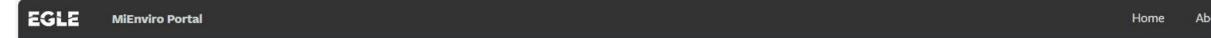
- We have some statewide specialists and many "Watershed biologists" which operate within their watersheds (HUC8s) to conduct water chemistry and biosurvey work.
- Data goes into the Water Quality Exchange and ATTAINs.
- Reports due within 1 year, but this is too long and deadlines aren't always met.



Field Operations (Compliance Staff)

- Many district staff have multiple programs (such as CAFO and MS4; or CAFO and Groundwater) plus respond to spills and complaints.
- All Permitting & Compliance data and work is done through MiEnviro (https://mienviro.michigan.gov/)
- Do they check the Water Quality Portal for relevant data? Do they read our reports?





My Tasks Inbox Reports Explorer nSPECT

Q Search

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A MiEnviro will be offline Tuesday, May 28, 2024, starting at 5:15 pm EST for system maintenance. MiEnviro is expected to be available again by 7:00 p.m. Please exit MiEnviro before this time to avoid losing any work.

Site Details



Start a New Form

Submissions

Discharge Monitoring

Reports

Permits

Evaluations

Violations

Compliance and

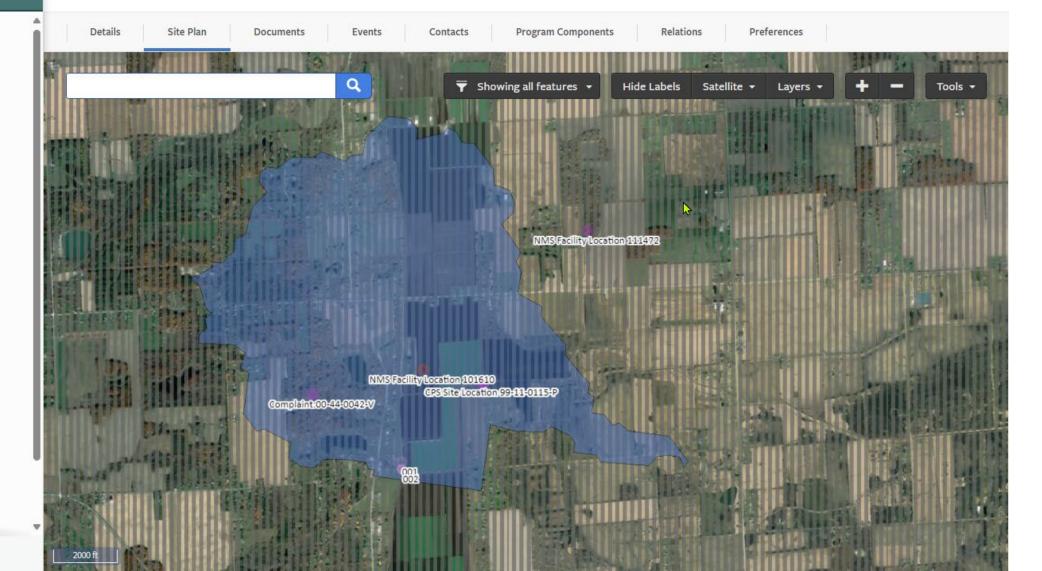
Enforcement Actions

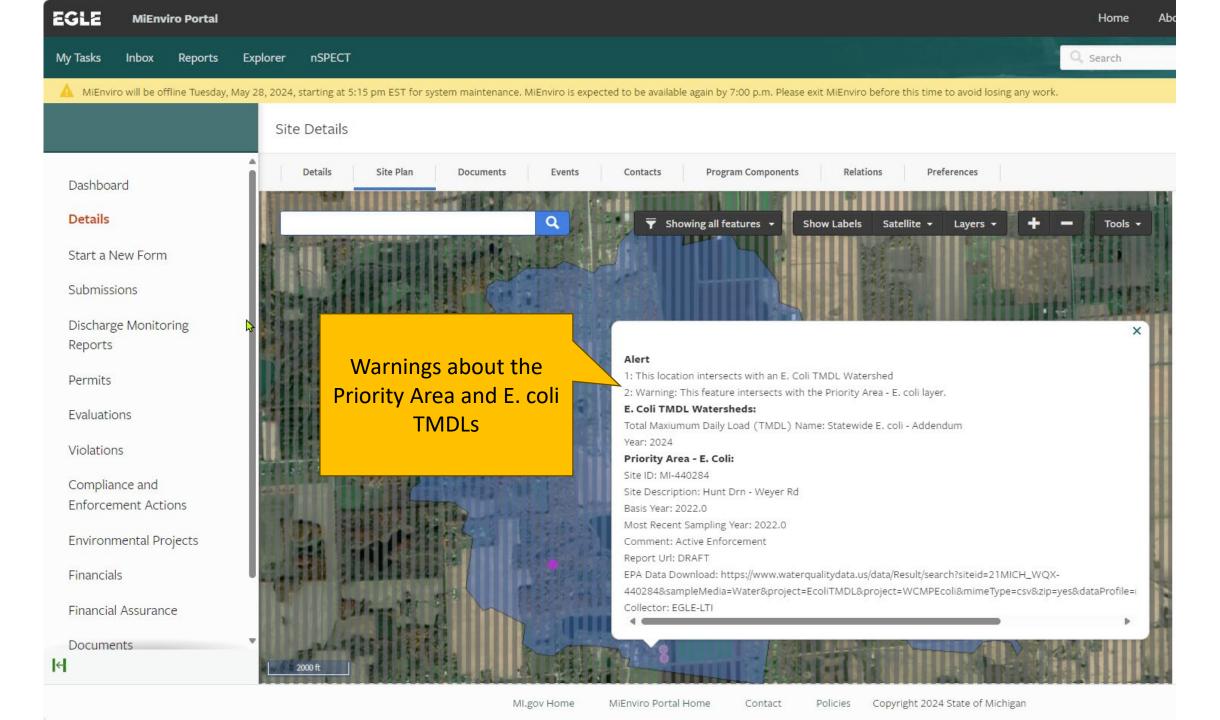
Environmental Projects

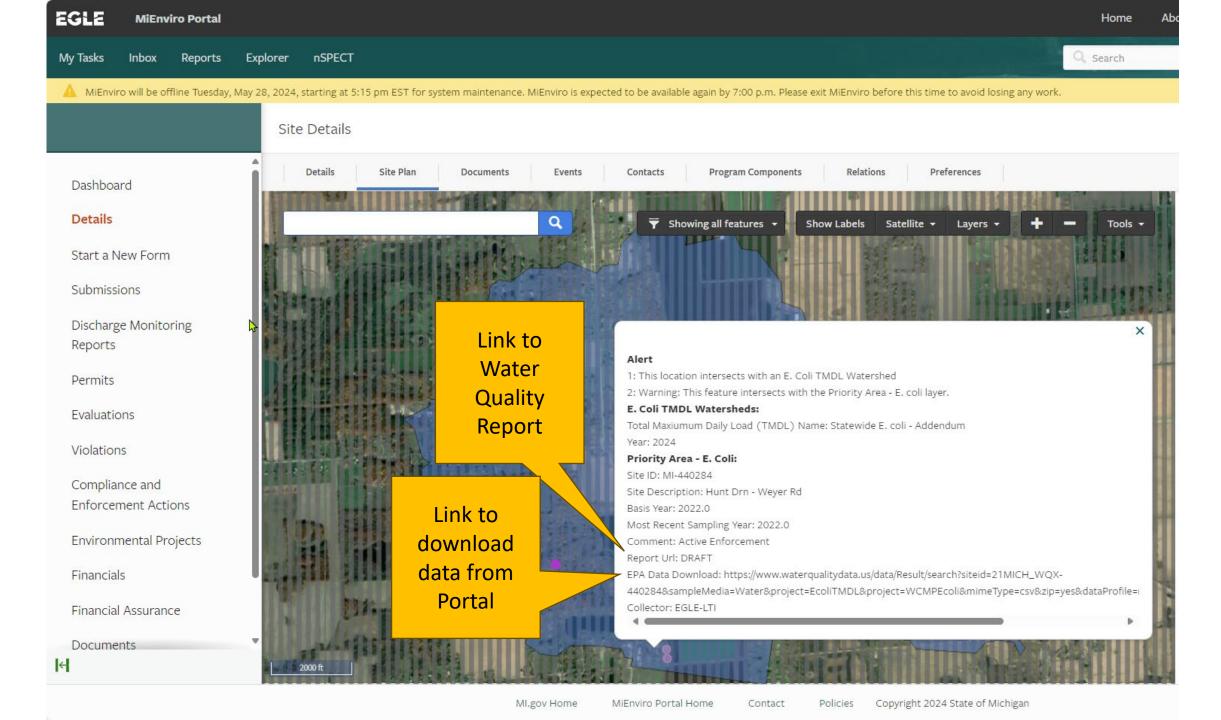
Financials

Financial Assurance

Documents









Is this perfect?

- No.
 - Will still require district staff to turn on the GIS layers for each inspection. But it is easier and fewer steps.
 - Still not 'instant' knowledge transfer, but nothing will be.

Next steps:

- Training and communication.
- Adding questions to NPDES inspection forms used by district staff.
- Possible similar nutrient layer for impairments with no TMDLs (nutrient impairments are a priority under our vision "2.0", but the TMDLs are a long way off)

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