

# Ohio EPA DSW Regulatory Update

Brian Hall, Assistant Chief

Scott Sheerin, Compliance Coordinator

August 2, 2016



# Presentation Overview

- Brian
  - 2016 Integrated Water Quality Report
  - Statewide Nutrient Mass Balance Report
  - Western Lake Erie Basin Collaborative
  - New NPDES Nutrient Permitting
  - New HAB Office
- Scott
  - Common Violations
  - Changes to the NOV process and ROV
  - Things you can do to stay in compliance
  - STREAMS and Interactive Maps (if time allows)

# 2016 Integrated Water Quality Report

- Requirement of the CWA
- Report Even Number Years  
(2014, 2016, 2018)
- Identify all State Waters
- Monitor and Assess Waters
- List Impaired Waters & Prioritize
- Schedule TMDLs



# 2016 Integrated Water Quality Report

- How do we report?
  - Divide State into
    - Basins, Hydrologic Unit Codes (HUCs)
    - Large Rivers
  - Use Water Quality Standards
- What are we looking for?
  - Do we have Fish and are they Safe to Eat?
  - Is it Safe to Swims or Wade?
  - Is the Water Safe to Drink?



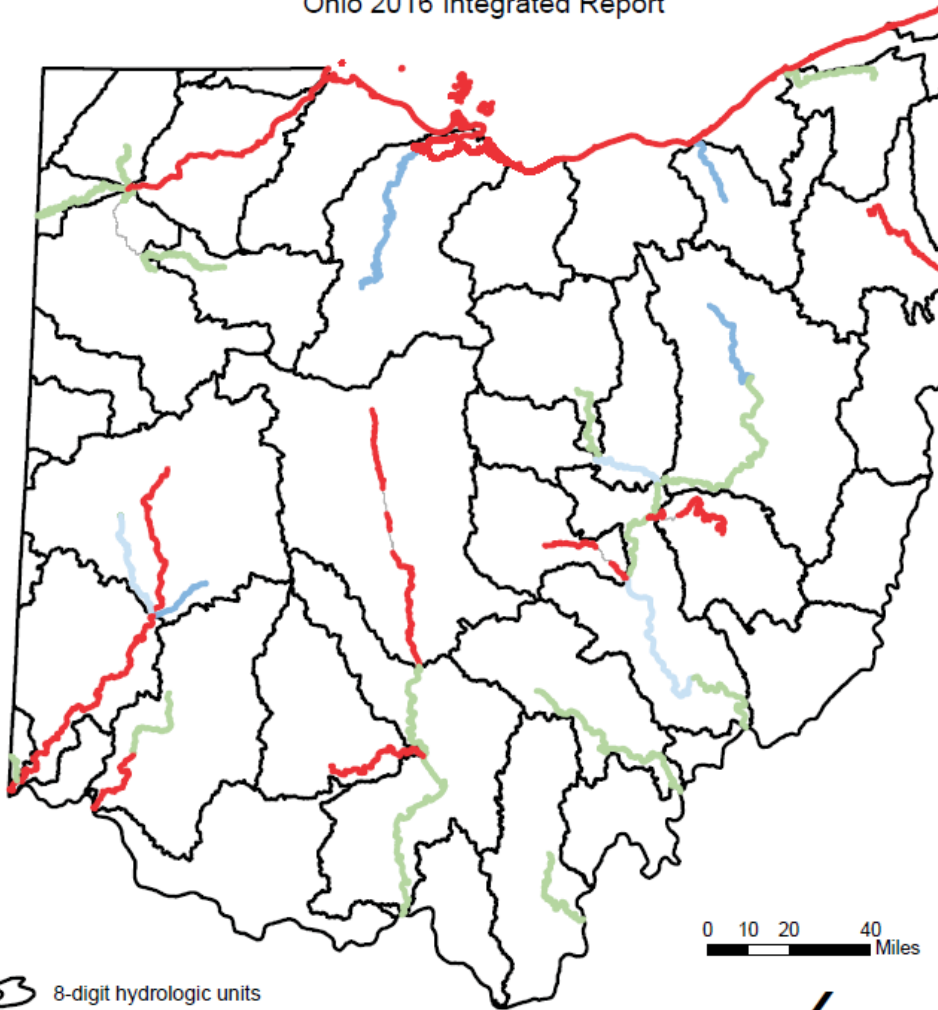
# 2016 Integrated Water Quality Report







- How are we Doing?
  - Aquatic Life Uses
    - Large River Scores declined
    - Watershed Scores improved
  - Recreation Uses
    - More Bacteria
  - Public Water Supplies
    - More Nitrate reported
    - More Algae reported

GOOD  
NEWS,  
BAD  
NEWS

# Section 303(d) Aquatic Life Use Categories Large River and Lake Erie Assessment Units

Ohio 2016 Integrated Report



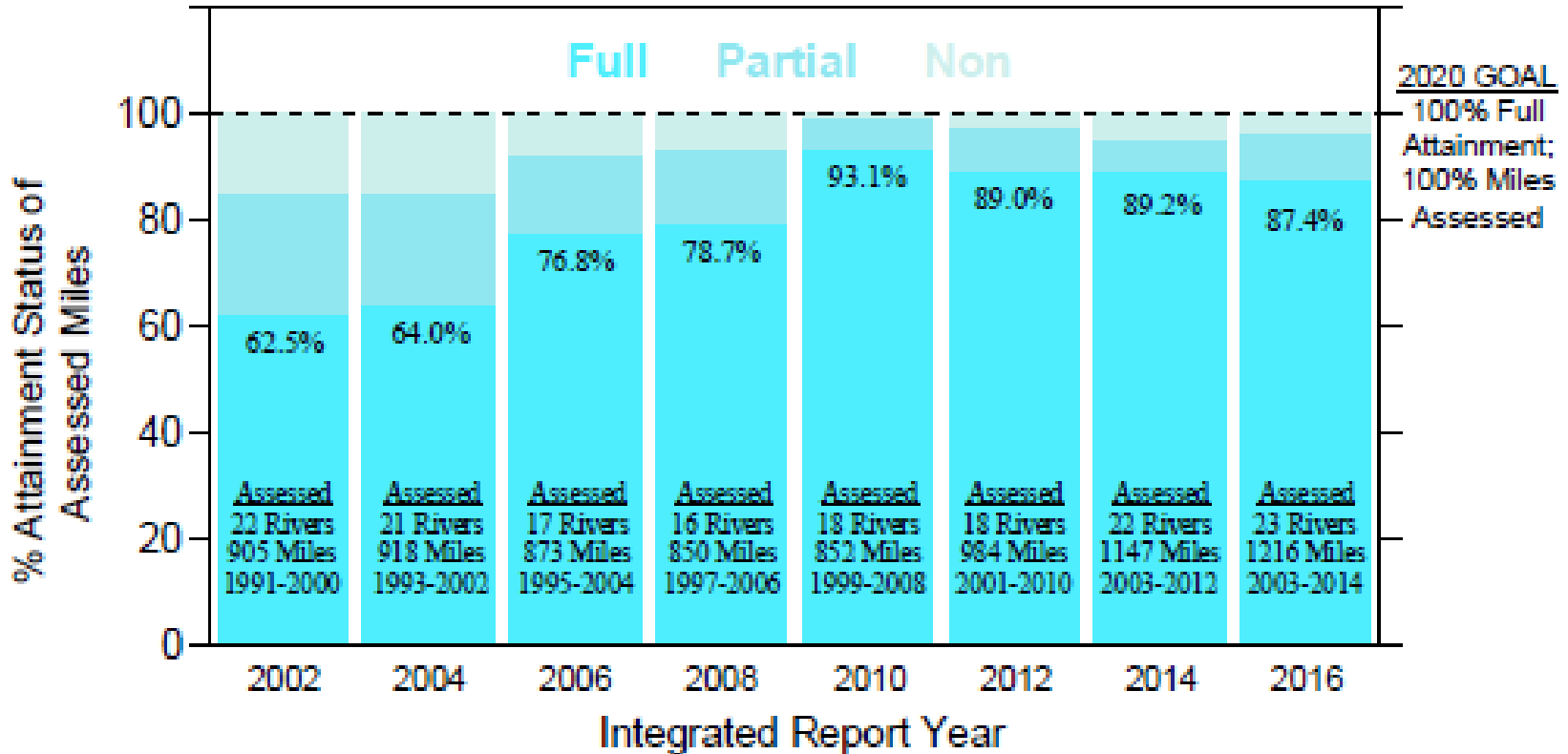
-  8-digit hydrologic units
-  1 - Use is fully supported
-  4A - TMDL approved
-  4C - Impairment not from a pollutant
-  5/5h - Use is not supported
-  Reservoirs excluded from LRAUs

0 10 20 40 Miles

Updated 2/26/2016



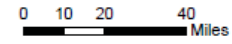
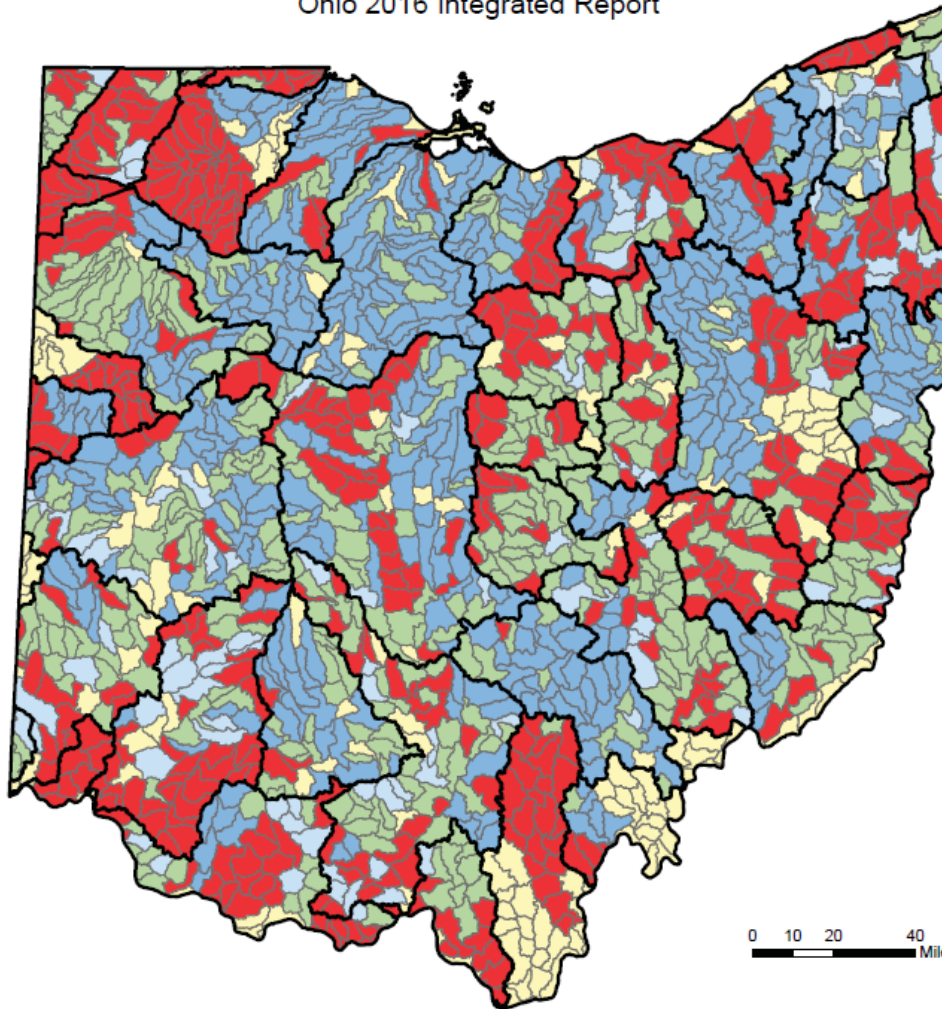
# Aquatic Life Large River Trend











# Section 303(d) Aquatic Life Use Categories Watershed Assessment Units

Ohio 2016 Integrated Report



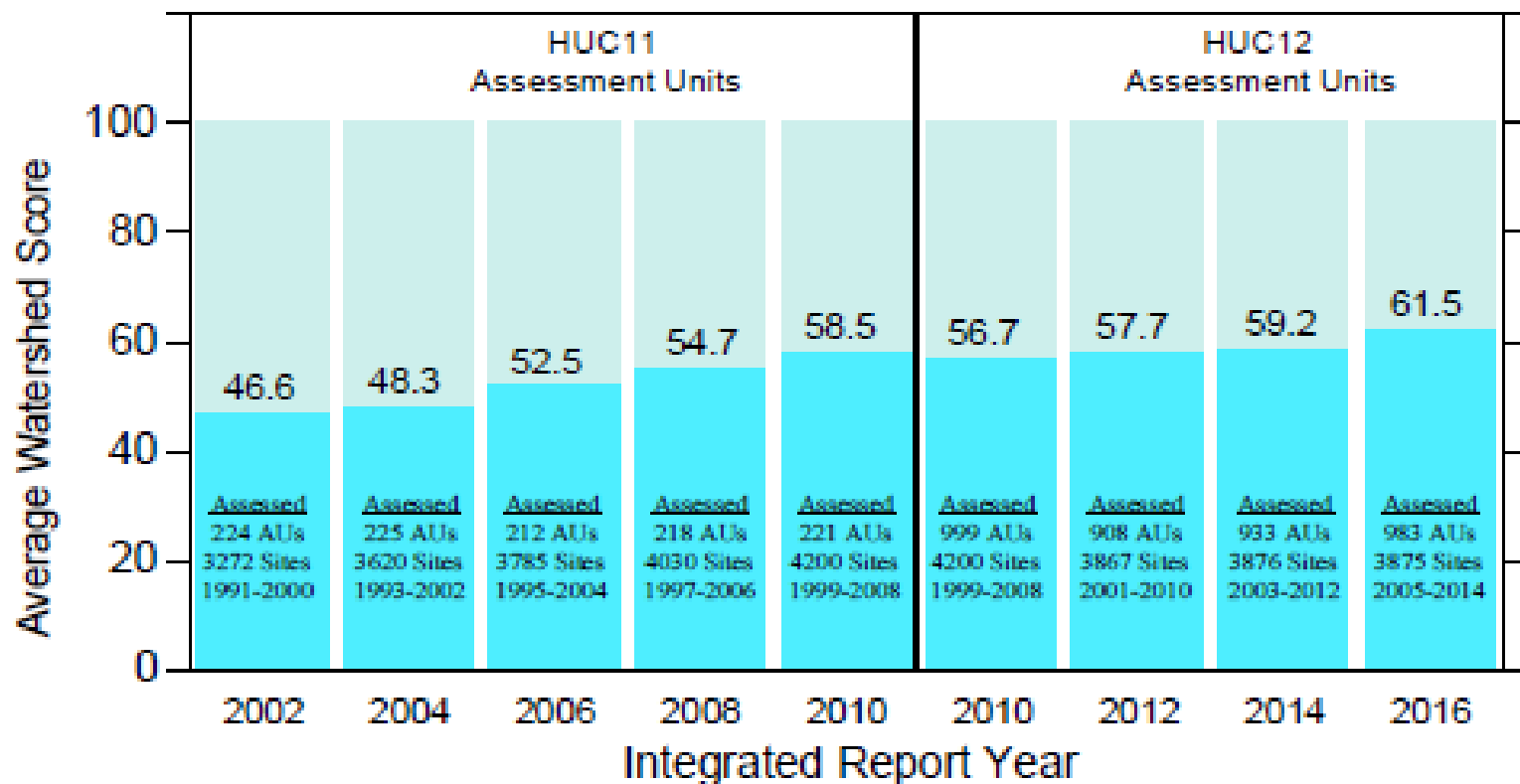
-  8-digit hydrologic units
-  1/1h/1hx/1d/1t/1ht - Use is fully supported; TMDL approved (d/t)
-  3/3i/3ih/3x/3t/3it/3iht - No data or insufficient data; TMDL approved (t)
-  4A/4Ah - TMDL approved
-  4C/4Ch/4n/4nh - Impairment not from a pollutant; natural causes (n)
-  5/5d/5h/5hx - Use is not supported; TMDL approved (d)

Updated 2/26/2016



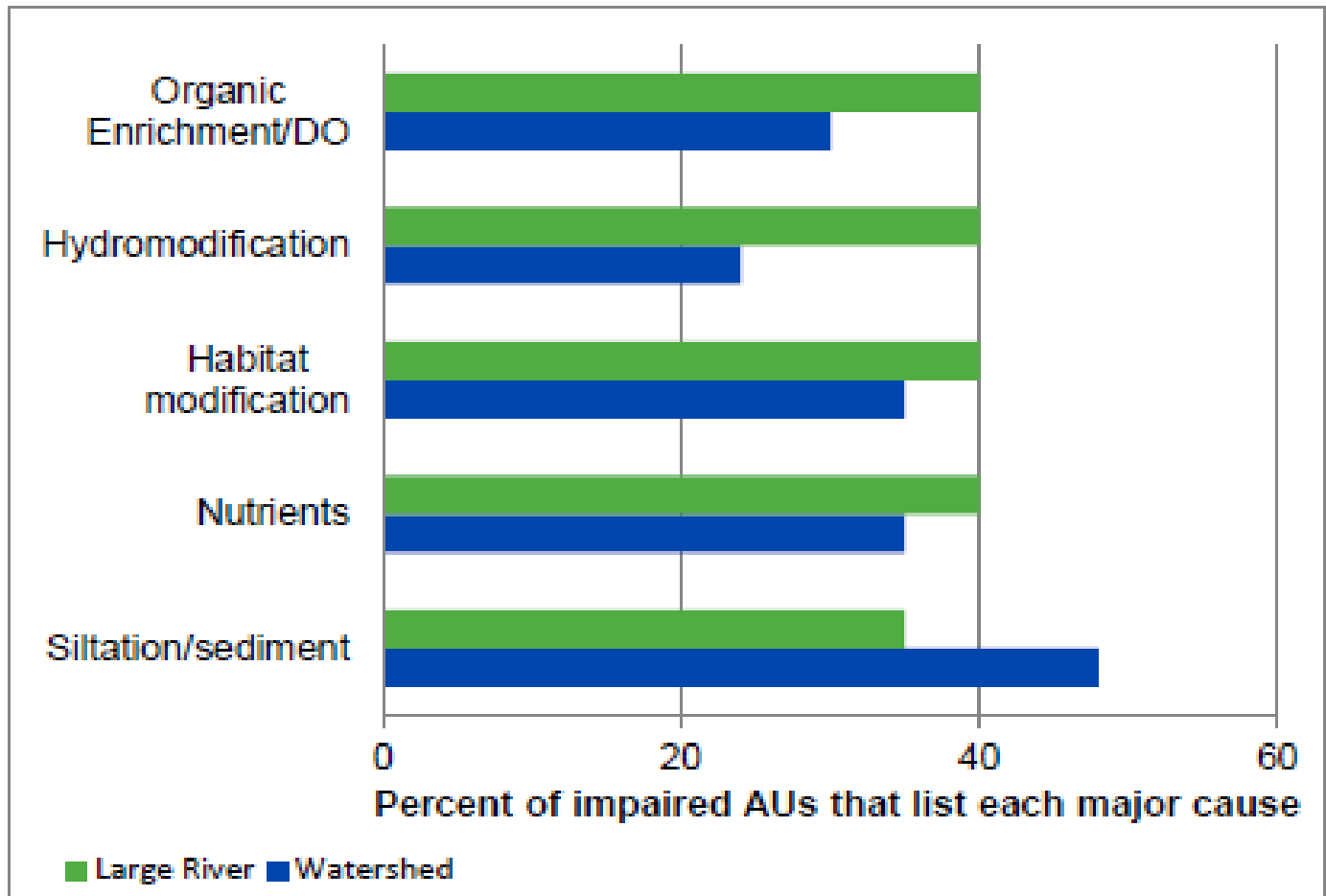


# Aquatic Life Watershed Trend



# 2016 Integrated Water Quality Report

- Where are the Aquatic Life problems coming from?

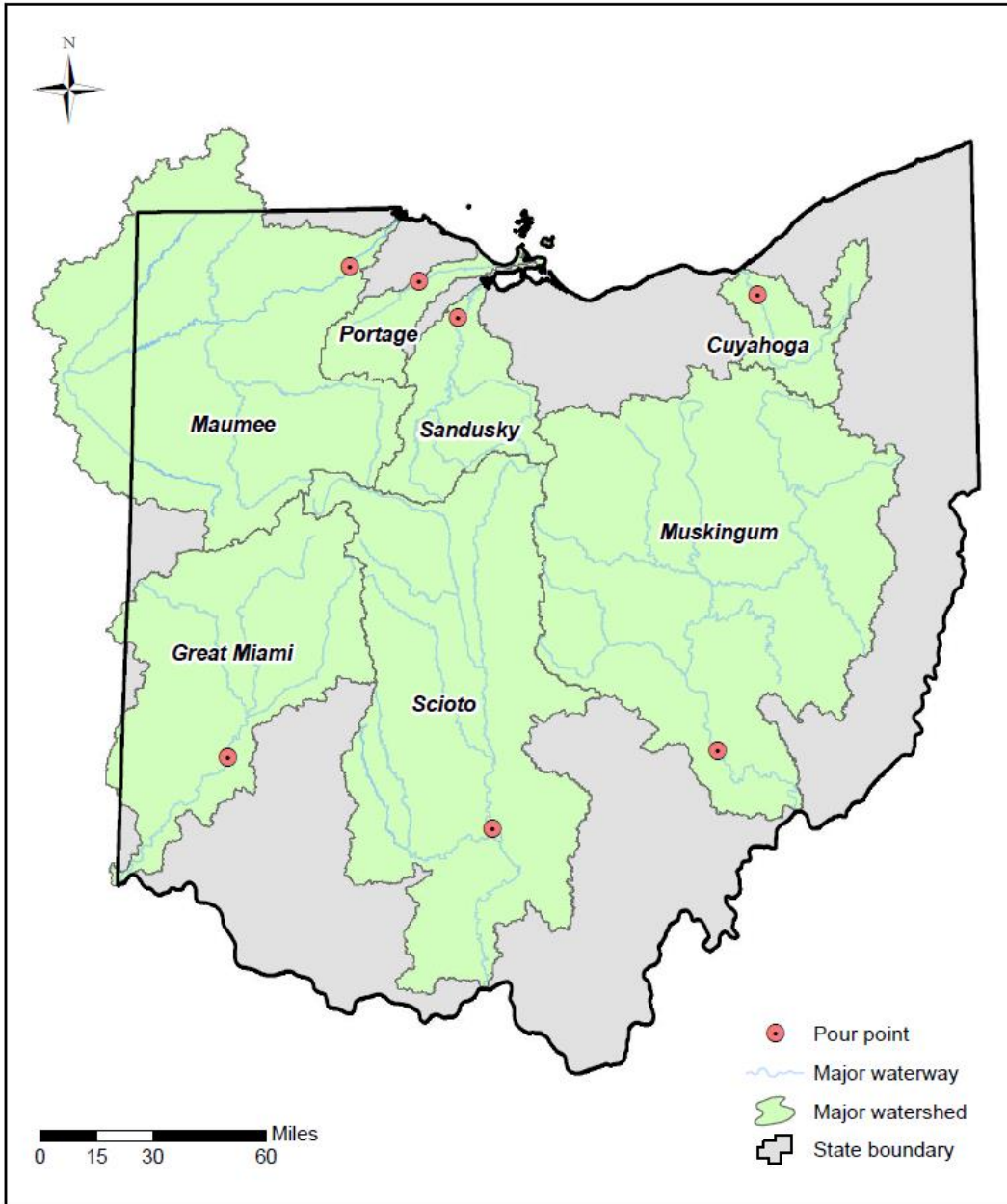


# Statewide Nutrient Mass Balance Study

- Total Phosphorus (dissolved + particulate) and Total Nitrogen (organic N + ammonia + nitrate)
- Loads calculated for 'water years' (Oct to Sept basis)
- ***Total Load = PS + HSTS + NPS<sub>upst</sub> + NPS<sub>dst</sub>***
  - Point Sources (PS) – POTW, Industrial, CSO & SSO
  - Home Sewage Treatment Systems (HSTS) – discharging and on-lot
  - Nonpoint Sources (NPS) – Total Load minus point sources
  - NPS Loads estimated for area downstream of monitoring point
- Seven Watersheds – 63% of Ohio's land area
  - Four Lake Erie: Maumee, Portage, Sandusky and Cuyahoga
  - Three Ohio River: Great Miami, Scioto and Muskingum

# Statewide Nutrient Mass Balance Study

- Motivation for Study
  - Statutory obligation ORC 6111.03(U) requires Agency to develop total load, discriminate between sources, and report every 2 years
  - Guide Agency policy and management by understanding relative loads (by major Ohio watersheds) and load sources (e.g., CSO vs. NPS vs. wastewater)
  - Support national programs – Annex 4 (GLWQA) and Gulf of Mexico Hypoxia Task Force



# Area Covered

- 26,000 sq. mi.
- 63% of Ohio's land area

# Western Lake Erie Basin Collaborative



- Signed June 2015 by Michigan, Ohio and Ontario
- Reduce Algae in the Western Lake Erie Basin
- 20% reduction of Phosphorus by 2020 and 40% by 2025
- Each State and Ontario develop a plan

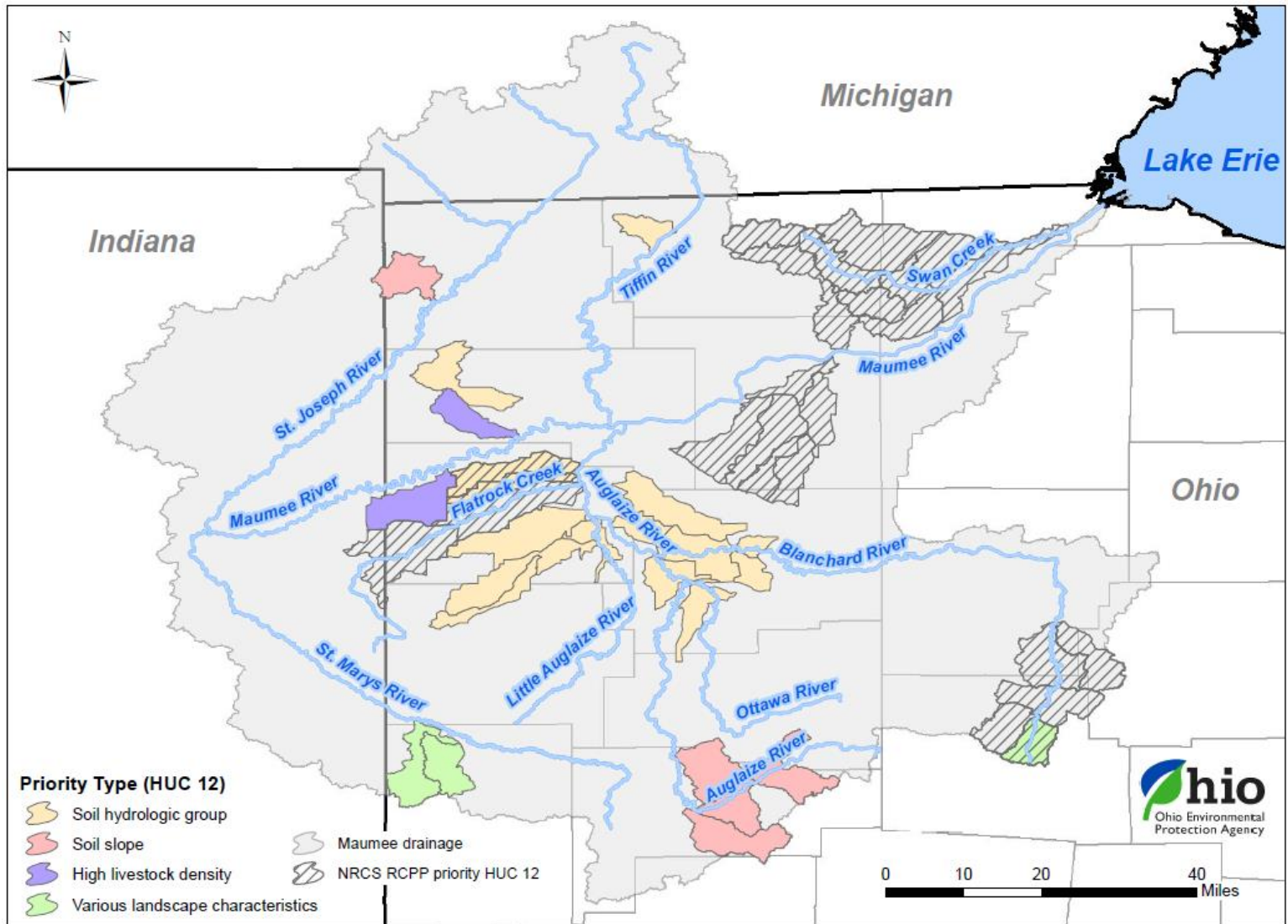


# Western Lake Erie Basin Collaborative

- Ohio's Partner Agencies
  - Department of Agriculture
  - Department of Health
  - Department of Natural Resources
  - Ohio EPA
  - Ohio Lake Erie Commission
- Implementation Plan
  - Two timeframes (12 mo, & 12 to 36 mo)



# Western Lake Erie Basin Collaborative Priority Watersheds



# New NPDES Nutrient Requirements



- Signed into law on 4/2/15
- Effects municipal facilities
  - Considered a major OR
  - $ADDF \geq 1.0$  MGD
- New orthophosphate monitoring requirement
- TP Technical and Financial Capability Study

# New NPDES Nutrient Requirements

- Major POTWs ( $\geq 1$ MGD or designated a “Major Discharger”)
  - Begin monthly monitoring for TP and DRP by 12/31/2016
  - By no later than 12/31/2017, these same POTWs (with no TP limit as of 7/3/2015)
    - Complete study to evaluate technical/financial feasibility of existing WWTP to reduce EOP TP to 1.0 mg/l by:
      - Using possible source reduction measures
      - Operational procedures
      - Unit process configurations

# What Does it Look Like in the Permit?

## Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from the following outfall: [REDACTED] See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 001 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00010 - Water Temperature - C	-	-	-	-	-	-	-	Continuous	Maximum Indicating Thermometer	All
00300 - Dissolved Oxygen - mg/l	-	6.0	-	-	-	-	-	1/Day	Multiple Grab	All
00530 - Total Suspended Solids - mg/l	-	-	18	12	-	102.3	68.2	3/Week	24hr Composite	All
00552 - Oil and Grease, Hexane Extr Method - mg/l	10	-	-	-	-	-	-	1/Month	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	1.4	0.93	-	7.95	5.29	3/Week	24hr Composite	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	4.5	3.0	-	25.6	17.1	3/Week	24hr Composite	Winter
00625 - Nitrogen Kjeldahl, Total - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
00630 - Nitrite Plus Nitrate, Total - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
00665 - Phosphorus, Total (P) - mg/l	-	-	1.5	1.0	-	8.52	5.68	1/Week	24hr Composite	All
00671 - Orthophosphate, Dissolved (as P) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
01074 - Nickel, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly
01113 - Cadmium, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly
01118 - Chromium, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly
01119 - Copper, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly
01220 - Chromium, Dissolved Hexavalent - ug/l	-	-	-	-	-	-	-	1/Quarter	Grab	Quarterly

## OP Monitoring

- Parameter Code 00671
- 1/month
- Grab Sample
- Year Round

# What Does it Look Like in the Permit?

Part II Language:

Monitoring for Dissolved Orthophosphate (as P)

Beginning no later than three months from the effective date of this permit, the permittee shall begin monitoring for dissolved orthophosphate by grab sample. The permittee shall filter the grab sample within 15 minutes of collection using a 0.45-micron filter. The filtered sample must be analyzed within 48 hours. Samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's overall performance.



# Why a Grab Sample?

- Hotly debated topic
- Discussed with several interested parties
- Main use – comparison to stream grab samples
- POTW can determine its own use and take additional data.
- Ideally, take Ortho-P sample at same time TP



# New NPDES Nutrient Requirements



## Division of Surface Water: Technical and Financial Capability Study to Reduce Phosphorus

(Read accompanying instructions carefully before completing this form)

This form may be used by publicly owned treatment works with a design flow of 1.0 million gallons per day or more or otherwise designated as a major by the director and that did not have total phosphorus limits as of July 3, 2015 to fulfill obligations set forth in ORC Section 6111.03 that require a study of the technical and financial capability of the existing treatment work to reduce the final effluent discharge of phosphorus to one milligram per liter using possible source reduction measures, operational procedures, and unit process configurations.

Completion of this form does not take the place of any previously required nutrient related reports. Submit this form to Ohio EPA Division of Surface Water by December 1, 2017.

### I. Applicant Information

Facility Name:	<a href="#">Click here to enter text.</a>	Ohio EPA Permit Number:	<a href="#">Click here to enter text.</a>
Outfall Number:	<a href="#">Click here to enter text.</a>	Type of Treatment:	<a href="#">Choose an item.</a>

### II. 2016 Total Phosphorus Data

Mark which of the following best describes the numeric total phosphorus concentrations in the influent at your facility:

[Choose an item.](#)

Include the average monthly effluent concentration for total phosphorus for the most recent twelve months below. Unless you marked "Unknown" above, also include the average monthly influent concentration for total phosphorus as well.

Month	Average Monthly Concentration of Total Phosphorus [Parameter Code 00665]	
	Estimated Influent (mg/L)	Final Effluent Outfall (mg/L)
<a href="#">Choose an item.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>
<a href="#">Choose an item.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>
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<a href="#">Choose an item.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>

Based on the above discharge information, does the permittee believe that it is currently able to discharge total phosphorus at or below a one milligram per liter monthly average concentration without any additional changes to treatment processes?

Yes  (Continue to Section III) No  (Continue to Section IV)

III. Identification of the methods currently used by the permittee to reduce the discharge of total phosphorus to a monthly average concentration of 1.0 mg/L or lower. Identify below a summary of source reduction measures, operational procedures, and unit process configurations that have previously been performed and contribute to decreased total phosphorus discharges. Once this section is completed, continue to section VI.

Example: My facility already meets a monthly 1 mg/L total phosphorus concentration. This is achieved via biological nutrient removal. We also evaluated possible source reductions and oxygen cycling processes previously. [Click here to enter text.](#)

IV. Identification of the most economically feasible method(s) to reduce the discharge of total phosphorus to a monthly average concentration of 1.0 mg/L via completion of the following questions and summarized procedures.

IV. A. Was Source Reduction Evaluated?	Yes <input type="checkbox"/>	No <input type="checkbox"/> (Continue to Section IV. B)
Do you plan to incorporate Source Reduction as part of your plan?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
IV. B. Were Operational Changes Evaluated?	Yes <input type="checkbox"/>	No <input type="checkbox"/> (Continue to Section IV. C)
Do you plan to incorporate Operational Changes as part of your plan?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

IV. C. Were Unit Process Configurations Evaluated?	Yes <input type="checkbox"/>	No <input type="checkbox"/> (Continue to Section IV. D)
Do you plan to incorporate Unit Process Configurations as part of your plan?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
IV. D. Was Additional Treatment Evaluated?	Yes <input type="checkbox"/>	No <input type="checkbox"/> (Continue to Section IV. E)
Do you plan to incorporate Additional Treatment as part of your plan?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
IV. E. Submit a summarized plan below of how the procedures identified above will be performed and/or installed to reduce the discharge of total phosphorus to a 1.0 mg/L final effluent discharge concentration or lower.		

Example: My facility believes the following procedures would reduce phosphorus discharges below 1.0 mg/L. We plan to evaluate all industrial sources for elevated phosphorus concentrations and limit phosphorus where feasible. Assuming that this reduction will not be significant enough to achieve a facility discharge of total phosphorus to 1.0 mg/L final effluent discharge, we would install an alum chemical feed tank and dosing mechanism. [Click here to enter text.](#)

### V. Economic Information and Total Estimated Costs of Reducing Total Phosphorus Concentrations

In section IV, did the permittee identify a chemical additive as part of the most economically feasible method(s) to reduce the discharge of total phosphorus to a monthly average concentration of 1.0 mg/L or lower?

Yes  (Continue to Section V.A) No  (Continue to Section V.B)

#### V.A. Economic Information Associated with Chemical Feed

If the permittee identified a chemical additive as part of the most economically feasible method(s) to reduce the discharge of total phosphorus to a monthly average concentration of 1.0 mg/L or lower, complete the information below:

Associated Capital Cost Associated with Chemical Feed:			
Chemical Tank Cost:	<a href="#">Click here to enter text.</a>	Pump Cost:	<a href="#">Click here to enter text.</a>
Piping and Dosing Mechanism Cost:	<a href="#">Click here to enter text.</a>	Any Other Expected Capital Costs (e.g.: new building):	<a href="#">Click here to enter text.</a>
Total Associated Capital Costs (summation of the above capital costs):			<a href="#">Click here to enter text.</a>
Associated Operations and Maintenance (O&M) Cost Associated with Chemical Feed:			
Monthly Chemical Cost:	<a href="#">Click here to enter text.</a>	Monthly Labor Costs:	<a href="#">Click here to enter text.</a>
Monthly Electric Cost:	<a href="#">Click here to enter text.</a>	Other Monthly Costs:	<a href="#">Click here to enter text.</a>
Monthly Associated O&M Costs (summation of the above O&M costs):			<a href="#">Click here to enter text.</a>

#### V.B. Economic Information Associated with Non-Chemical Feed Procedures

Select procedures below that the permittee identified in section IV as part of the most economically feasible method(s) to reduce the discharge of total phosphorus to a monthly average concentration of 1.0 mg/L or lower, including the operation procedure, associated capital and operating and maintenance costs, and reasoning for the costs (electric cost, labor, etc.):

Operational Procedure:	Capital Cost:	Monthly O&M Cost:	Reasoning:
<a href="#">Choose an item.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>
<a href="#">Choose an item.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>
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<a href="#">Choose an item.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>	<a href="#">Click here to enter text.</a>

#### VI. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the form, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name:	<a href="#">Click here to enter text.</a>	Official Title:	<a href="#">Click here to enter text.</a>
Signature:		Date Signed:	<a href="#">Click here to enter text.</a>

# New Harmful Algal Bloom Office

- Created under Division of Drinking & Groundwater
- Manager – Amy Jo Klei
- Central Office Staff and District Staff as well
- Will oversee HAB strategy for both Source Water and Recreational Waters for Ohio EPA
- Overall state HAB response framework will continue to include state and local agencies.

# GOOD MORNING EVERYONE!!

- Scott Sheerin – Compliance Coordinator for the Ohio EPA
  - Work in Central Office
  - Track and Coordinate Compliance Statewide
- Director's Office Request: Develop a procedure whereby NOV's are more diligently followed up on and are brought to one of two conclusions: **Resolution or Enforcement**

# Common NPDES Violations

- Failure to submit DMR or provide periodic sample results
- Exceeding Permit Limits
- Failure to provide notification for exceeding permit limits
- Failure to ensure proper sampling (preservation, type, method, records)
- Failure to operate/maintain/calibrate wastewater treatment equipment
- Missing compliance milestones

# \*NEW\* Notice of Violation Process

- OEPA Inspector conducts an inspection and finds violation(s)
- Inspector will communicate those violations during the inspection and inform you that an NOV will be issued
- You will receive TWO documents:
  - **Notice Of Violation (NOV) Letter**
  - **Inspection Summary Letter (with attached inspection form)**
- Up to 30 days to respond to the violation(s). Analyze the problem...provide a well thought out response!
- **PLEASE RESPOND TO THE 1<sup>ST</sup> NOV!**



# \*NEW\* Notice of Violation Process

(cont.)

- No response to 1<sup>st</sup> NOV = **2<sup>nd</sup> NOV**
- If a response is not received, you will be contacted by the District Supervisor and/or Manager.
- If there is ultimately no response to a 2<sup>nd</sup> NOV, you will be contacted by the District's Upper Management. **THIS COULD BE YOUR LAST CHANCE PRIOR TO ENFORCEMENT!**
- We don't want to have to refer you for enforcement.



# \*NEW\* Notice of Violation Process

(cont.)

- An adequate response to the violations is received by the District.
  - Work diligently toward resolving each violation
- **GOOD Communication is key**. Expect continued follow up by District Staff until the NOV has been concluded.
- Once all of the violations cited in the NOV have been resolved, you will receive a **Resolution of Violation (ROV) Letter!**



# RESOLUTION OF VIOLATION LETTER

## Example



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Craig W. Butler, Director

August 2, 2016

Re: Village of Nowhere WWTP  
Resolution of Violation (ROV)  
NPDES  
Franklin County  
9PB00000

Mr. Mayor  
Village of Nowhere WWTP  
1233 Road Runner Way  
Nowhere, Ohio 00000

Subject: Resolution of Violations

Dear Mayor:

Thank you for your May 2, 2016 response to Ohio EPA's April 14, 2016 Notice of Violation letter. The violations were originally communicated to you during an exit conference following an inspection conducted on April 5, 2016. The documentation you submitted included a copy of the ORC notification form and a compliance plan.

I have reviewed the documentation that you provided and have determined that Village of Nowhere WWTP has now resolved all violations discovered during the April 5, 2016 inspection. To ensure that all the violations have been addressed, I have included WWTP's response for each violation and its status.

### Resolution of Violation

1. **ORC chapter 6111.07 (A):** No Person shall violate or fail to perform any duty imposed by sections 6111.01 to 6111.08 of the Revised Code or violate any order, rule, or term, or condition of a permit issued or adopted by the director of the environmental protection pursuant to those sections. Each day of violation is a separate offense.

**OAC Rule 3745-7-02 (A)(2):** Each person owning or operating a treatment works or sewerage system shall designate one or more operator of record to oversee the technical operation of the treatment works, sewerage system, or each wastewater treatment facility. Except as provided for in paragraphs (E) to (G) of this rule, each operator of record shall have a valid certification of a class equal to or greater than the classification of the treatment works, sewerage system, or wastewater treatment facility.

**Permit 9PB00000 Part II paragraph A(2)(a):** The permittee shall designate one or more operator of record to oversee the technical operation of the treatment works and sewerage (collection) system in accordance with paragraph (A)(2) of rule 3745-7-02 of the Administrative Code.

Central Office • 50 W. Town St. • Suite 700 • P.O. Box 1049 • Columbus, OH 43216-1049  
www.epa.ohio.gov • (614) 644-8000 • (614) 644-3184(tlx)

(a) No Operator of Record (ORC) is listed for the collection system.

On 5/2/2016 Ohio EPA received Village of Nowhere WWTP's response which stated that they have submitted the required ORC Notification Form. Mr. John Smith is now listed as Village of Nowhere WWTP's ORC. Ohio EPA records indicate Mr. John Smith is now the listed ORC. Therefore, this violation has been abated.

2. **ORC chapter 6111.07 (A):** No Person shall violate or fail to perform any duty imposed by sections 6111.01 to 6111.08 of the Revised Code or violate any order, rule, or term, or condition of a permit issued or adopted by the director of the environmental protection pursuant to those sections. Each day of violation is a separate offense.

**Permit 9PB00000 Part III paragraph 12 (E):** The permittee shall report all other instances of permit noncompliance not reported under paragraphs A or B of this section on their monthly DMR submission. The DMR shall contain comments that include the information listed in paragraphs A or B as appropriate.

(a) Total Suspended Solids (TSS) of 2/1/15, TSS of 3/1/15, E. coli of 5/1/15, and Dissolved Oxygen (DO) of 6/5/15 did not have notes in the comment section explaining why the violation happened and what was done to correct it.

On 5/2/2016 Ohio EPA received Village of Nowhere WWTP's response which stated that Once Mr. Smith was hired, he went obtained privileges and edited the reports to include comments for violations. A subsequent check of the DMR data indicates comments have been added. Therefore, this violation has been abated.

3. **ORC chapter 6111.04 (C):** No Person to whom a permit has been issued shall place or discharge, or cause to be placed or discharged, in waters of the state any sewage, sludge, sludge materials, industrial waste, or other wastes in excess of permissive discharges specified under an existing permit without first receiving a permit from the director to do so.

**ORC chapter 6111.07 (A):** No Person shall violate or fail to perform any duty imposed by sections 6111.01 to 6111.08 of the Revised Code or violate any order, rule, or term, or condition of a permit issued or adopted by the director of the environmental protection pursuant to those sections. Each day of violation is a separate offense.

**Permit 9PB00000 Part I, A:** Monitoring Requirement for final outfall 001.

(a) The facility has been in exceedance of the permit limits for Dissolved Oxygen for the months of June 2015, July 2015, August 2015, and September 2015 at outfall 001. The limit listed in Part 1, A of the permit is a minimum of 5.0 mg/l. The monthly reports submitted for those monitoring months show Dissolved Oxygen levels of 2.0, 1.8, 1.8, 1.9 milligrams per liter (mg/l) respectively

(b) The facility is currently in **Significant Non-Compliance** due to the exceedance of Dissolved Oxygen for the last four consecutive months.

On 5/2/2016 Ohio EPA received Village of Nowhere WWTP's response which included a plan which outlined steps that were to be taken to rectify the dissolved oxygen exceedances. A review of your eDMR data from November 2015 through March 2016 indicates there have been no further exceedances for dissolved oxygen. Therefore, this violation has been abated.

Please note that this does not preclude the Director from seeking administrative or civil penalties pursuant to Ohio Revised Code section 6111.09 for the violation(s) noted in the 4/14/2016 NDV letter. The decision on whether to pursue or decline to pursue such penalties regarding illicit violations is dependent on several factors, one of which is the company's future compliance with Ohio EPA regulatory requirements.

Should you have any questions, please contact me at (614) 555-5555.

Sincerely,

Scott Sheerin  
Division of Surface Water  
Central Office

cc: Scott Sheerin, DSW, CO



# Things You Can Do...

- **GOOD Communication is key.** Contact us before we have to contact you
- If an NOV is issued, respond within the required time frame
- Start resolving violations immediately
- Be Proactive not Reactive.
- Communicate....Communicate....Communicate



# Final Thought

**WE WANT YOU IN COMPLIANCE!**

To quote Jerry McGuire:



# Water Quality Data Portal



National Water Quality Monitoring Council

Working together for clean water

## Water Quality Portal

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). It serves data collected by over 400 state, federal, tribal, and local agencies.

### DOWNLOAD DATA

Download water-quality data in Excel, CSV, TSV, and KML formats.

### HOW TO USE THE WQP

User Guide  
Web Services Guide  
FAQs  
Upload Data

### NATIONAL RESULTS COVERAGE

Water-quality data in your state.

### ABOUT THE WQP

What is the WQP?  
Contributing organizations  
Other Water Quality Portals  
Contact us

Contact us



**rio**  
Environmental  
Agency

# Water Quality Data Portal

## SITE PARAMETERS

Site Type:  ?

Organization ID:  ?

Site ID:  ?

HUC:  ?

## SAMPLING PARAMETERS

Sample Media:  ?

Characteristic Group:  ?

Characteristics:  ?

Project ID:  ?

Parameter Code: (NWIS ONLY)  ?

Minimum results per site:  ?

Date range - from:  to:


Biological sampling parameters: ?

Assemblage:  ?

Taxonomic Name:  ?

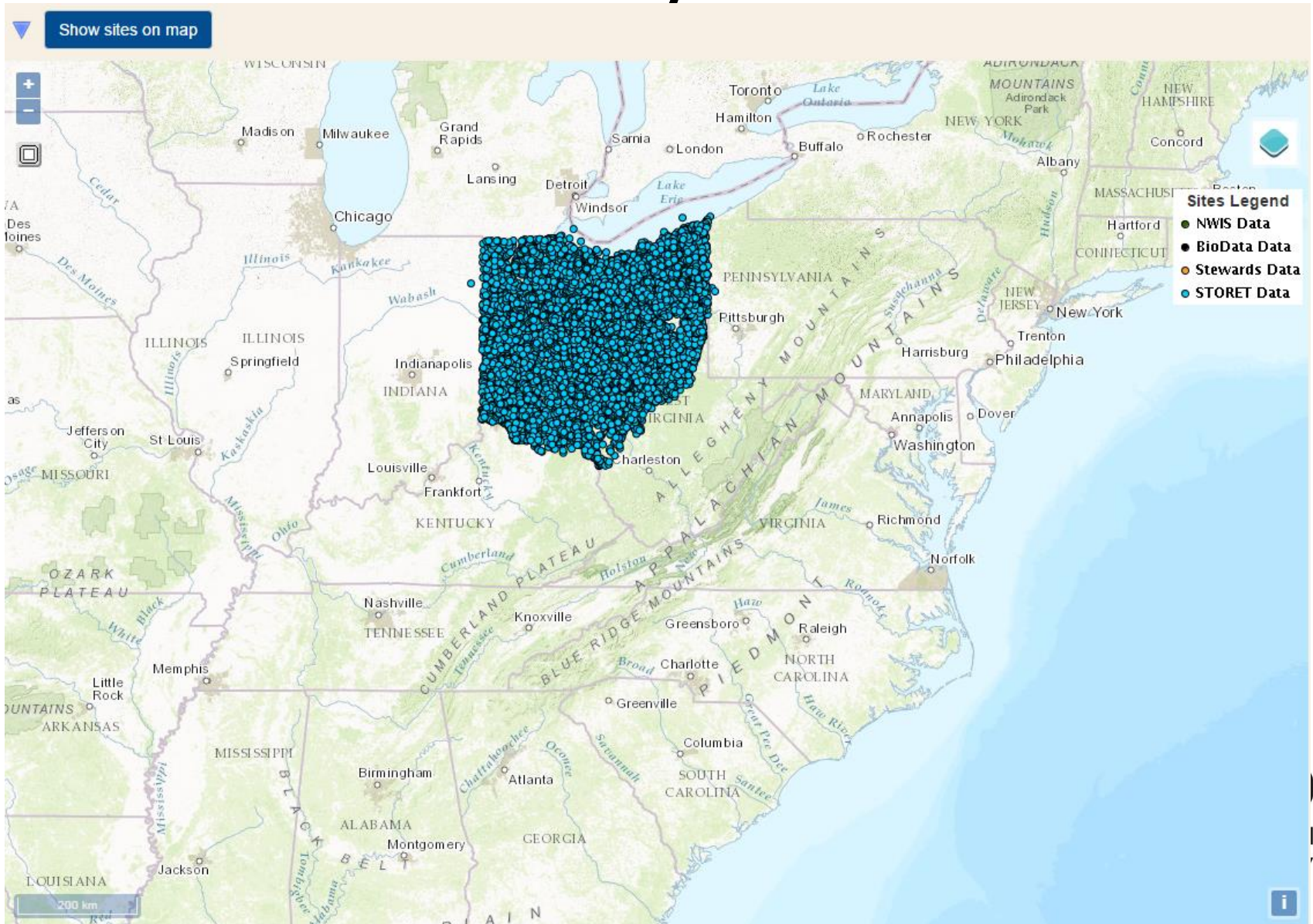
## DATA SOURCE

Select database:

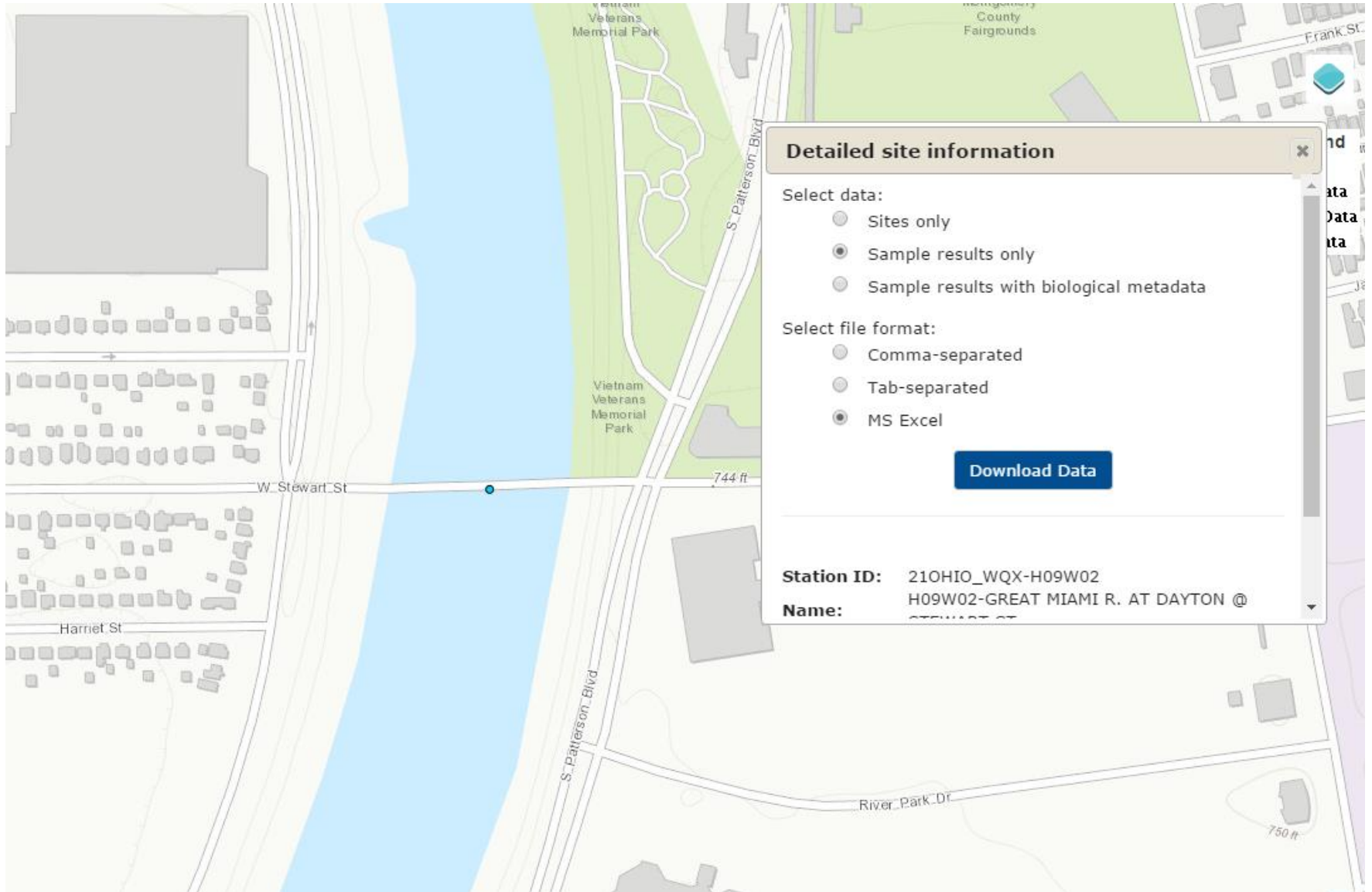
 [Show sites on map](#)



# Water Quality Data Portal



# Water Quality Data Portal



The image shows a map of a water body, likely a river or canal, with a blue dot indicating a specific data collection site. The map includes labels for streets such as W Stewart St, Harriet St, S Patterson Blvd, and River Park Dr. A detailed site information popup is overlaid on the map, providing options for data selection and file format, along with a 'Download Data' button and station details.

**Detailed site information**

Select data:

- Sites only
- Sample results only
- Sample results with biological metadata

Select file format:

- Comma-separated
- Tab-separated
- MS Excel

[Download Data](#)

**Station ID:** 21OHIO\_WQX-H09W02  
**Name:** H09W02-GREAT MIAMI R. AT DAYTON @ STEWART ST

# Water Quality Data Portal

2010-01-27	Hardness, Ca, Mg	Total	257.0	mg/l
2010-03-17	Hardness, Ca, Mg	Total	208.0	mg/l
2010-03-31	Hardness, Ca, Mg	Total	170.0	mg/l
2010-04-21	Hardness, Ca, Mg	Total	329.0	mg/l
2010-05-19	Hardness, Ca, Mg	Total	167.0	mg/l
2010-05-26	Hardness, Ca, Mg	Total	205.0	mg/l
2010-07-01	Hardness, Ca, Mg	Total	155.0	mg/l
2010-07-15	Hardness, Ca, Mg	Total	170.0	mg/l
2010-07-29	Hardness, Ca, Mg	Total	307.0	mg/l
2010-08-12	Hardness, Ca, Mg	Total	326.0	mg/l
2010-08-25	Hardness, Ca, Mg	Total	332.0	mg/l
2010-10-06	Hardness, Ca, Mg	Total	353.0	mg/l
2010-10-20	Hardness, Ca, Mg	Total	351.0	mg/l
2010-11-18	Hardness, Ca, Mg	Total	324.0	mg/l
2010-12-28	Hardness, Ca, Mg	Total	389.0	mg/l
2011-03-24	Hardness, Ca, Mg	Total	308.0	mg/l
2011-04-05	Hardness, Ca, Mg	Total	255.0	mg/l
2011-05-04	Hardness, Ca, Mg	Total	225.0	mg/l
2011-06-09	Hardness, Ca, Mg	Total	359.0	mg/l
2011-06-14	Hardness, Ca, Mg	Total	287.0	mg/l
2011-07-07	Hardness, Ca, Mg	Total	359.0	mg/l
2011-07-20	Hardness, Ca, Mg	Total	293.0	mg/l
2011-07-20	Hardness, Ca, Mg	Total	296.0	mg/l
2011-07-21	Hardness, Ca, Mg	Total	336.0	mg/l
2011-08-30	Hardness, Ca, Mg	Total	367.0	mg/l
2011-08-31	Hardness, Ca, Mg	Total	381.0	mg/l
2011-09-06	Hardness, Ca, Mg	Total	267.0	mg/l
2012-03-20	Hardness, Ca, Mg	Total	322.0	mg/l
2012-09-19	Hardness, Ca, Mg	Total	293.0	mg/l
2012-09-20	Hardness, Ca, Mg	Total	328.0	mg/l
2012-12-18	Hardness, Ca, Mg	Total	375.0	mg/l
2013-06-18	Hardness, Ca, Mg	Total	332.0	mg/l
2013-09-05	Hardness, Ca, Mg	Total	346.0	mg/l
2013-12-17	Hardness, Ca, Mg	Total	380.0	mg/l



# Ohio EPA DSW Interactive Maps



Ohio.gov State Agencies | Online Services

Search...



Home | About | Divisions and Offices | Do Business | Citizens and Educators | News | How Do I? | Contact

## Division of Surface Water

Ensures compliance with the federal Clean Water Act and works to increase the number of water bodies that can safely be used for swimming and fishing



We issue permits to regulate wastewater treatment plants, factories and storm water to reduce the impact of pollutants. We develop comprehensive watershed plans aimed at improving polluted streams. We sample streams, lakes and wetlands, including fish, aquatic insects and plants, to determine the health of Ohio's surface waters.



**Dredged Material - Make It Your Business!**  
Each year, 1.5 million cubic yards of material is dredged from the federal navigation channels along Ohio's Lake Erie shoreline. Historically, most of the material dredged from Lake Erie has been placed back into the open waters of the lake. Thanks to the enactment of Senate Bill 1, open-lake disposal will no longer be an option as of July 1, 2020. It's time to stop wasting dredged material and start using it to help Ohio. For more information, visit the webpage.

What's New | About Us | Programs | Featured Topics | Contacts | Links

### Documents Available For Comment

Document	Comments Due
Draft Renewal of General NPDES Permit for Petroleum-related Corrective Actions	June 21, 2016
Draft Rules - Water Quality Standards Program Rules OAC Chapter 3745-1	May 6, 2016
Applications for 401 Water Quality Certifications and/or Isolated Wetland Permits	Varies

**How to Report NPDES Non-compliance**  
Wastewater facilities must report non-compliance due to any **unanticipated bypass or upset** resulting in an exceedance of any **effluent limit**. Please refer to the non-compliance notification fact sheet and associated forms for more information.

**Quick Links**  
(Hint: Select an item and click "Go" to navigate)  
Interactive Maps  
Go

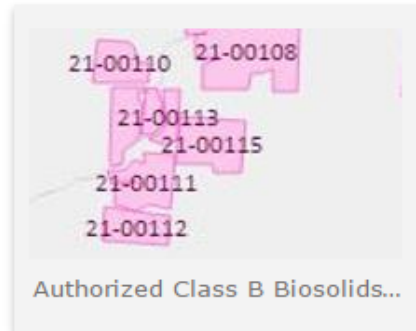
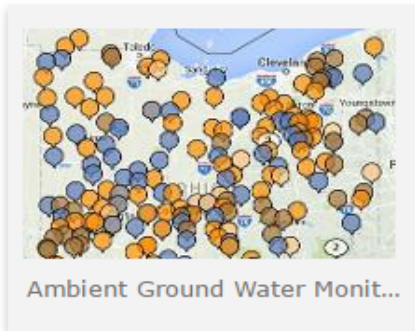


# Ohio EPA Geographic Information Systems (GIS)

The GIS Office manages geospatial data, applications and services to effectively characterize environmental data for the citizens of Ohio.

## Interactive Maps

The following maps and information are available. Hover over the image for a description of the map. Click on "View Map" or "View App" to open.

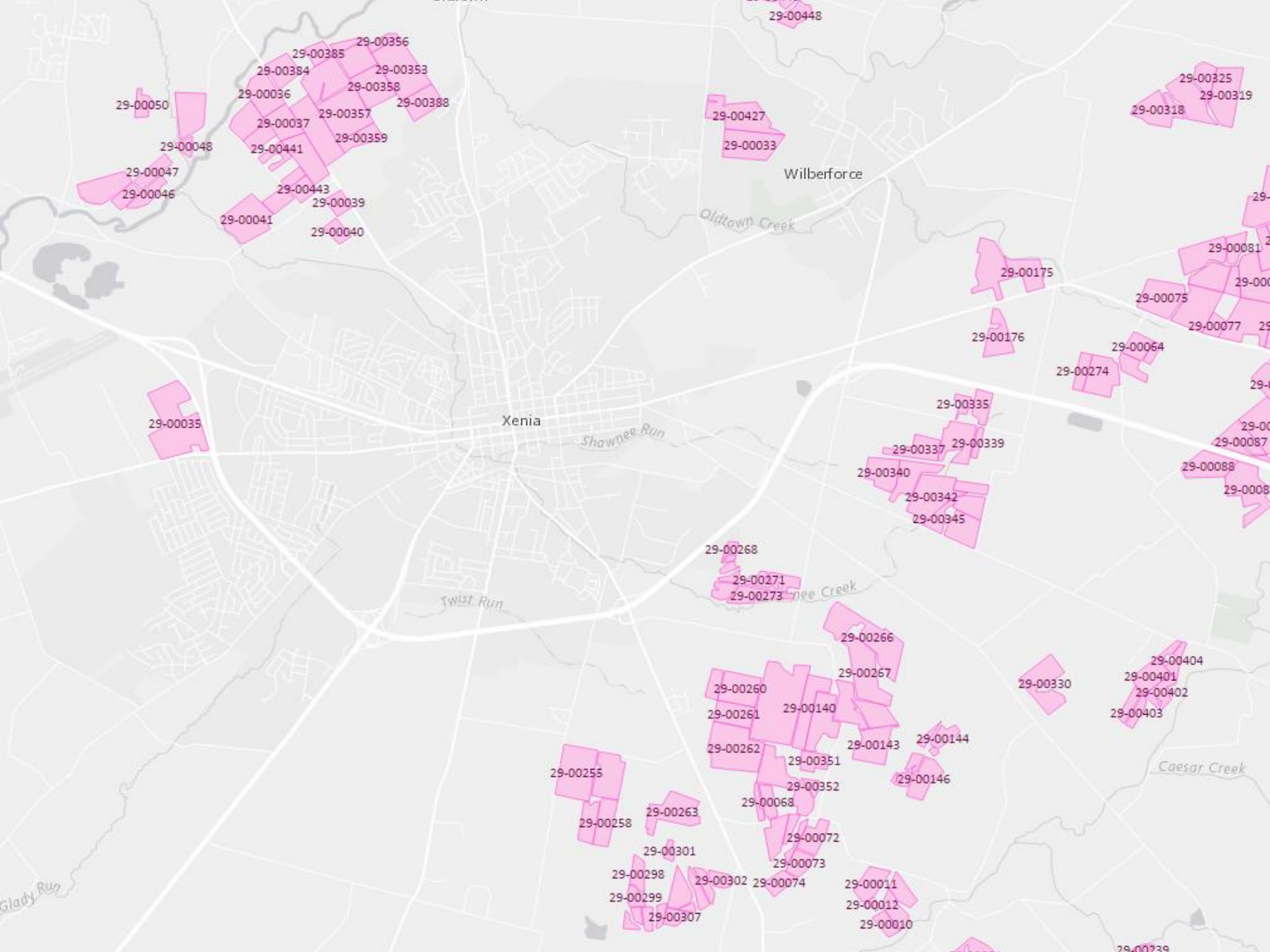


## ADDITIONAL RESOURCES

- ▶ **Ohio EPA Open Data**  
Geographic data available for download
- ▶ **Ohio Geographically Referenced Information Program**  
Contains Ohio geospatial data portal
- ▶ **Ohio Department of Natural Resources (ODNR) Geographic Information Management System Website**
- ▶ **Enforcement and Compliance History Online (ECHO)**  
ECHO provides fast, integrated searches of EPA and state data for 800,000+ regulated facilities
- ▶ **Envirofacts**  
Retrieve information from multiple sources of Envirofacts' System Data for your area of interest
- ▶ **DATA.GOV**

## CONTACTS

For more information, please email [GISDataRequest@epa.ohio.gov](mailto:GISDataRequest@epa.ohio.gov) or call (614) 644-2990.



29-00050

29-00048

29-00047

29-00046

29-00035

29-00385  
29-00384  
29-00036  
29-00037  
29-00441  
29-00443  
29-00041  
29-00356  
29-00353  
29-00358  
29-00357  
29-00359  
29-00039  
29-00040

29-00448

29-00427

29-00033

Wilberforce

Oldtown Creek

29-00325  
29-00319  
29-00318

29-00175

29-00176

29-00274

29-00064

Xenia

Shawnee Run

29-00335

29-00337

29-00339

29-00340

29-00342

29-00345

29-00081

29-00075

29-00077

29-00075

29-00077

29-00087

29-00088

29-00088

29-00268

29-00271

29-00273

Mud Creek

Twist Run

29-00266

29-00267

29-00260

29-00261

29-00262

29-00255

29-00258

29-00263

29-00301

29-00298

29-00299

29-00307

29-00140

29-00351

29-00352

29-00068

29-00072

29-00073

29-00302

29-00074

29-00074

29-00011

29-00012

29-00010

29-00143

29-00144

29-00146

29-00330

29-00404

29-00401

29-00402

29-00403

Caesar Creek

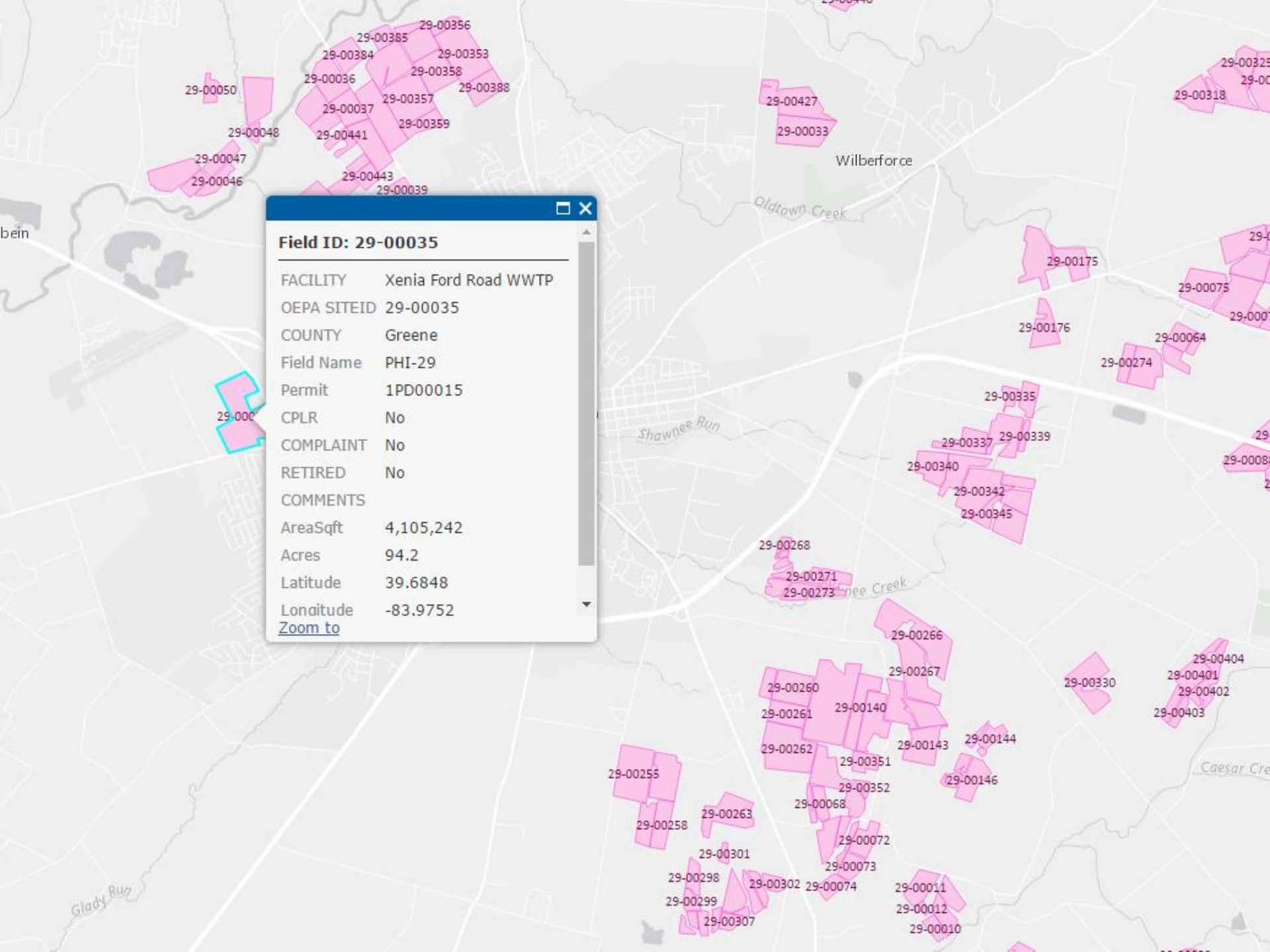
Gladys Run

29-00239



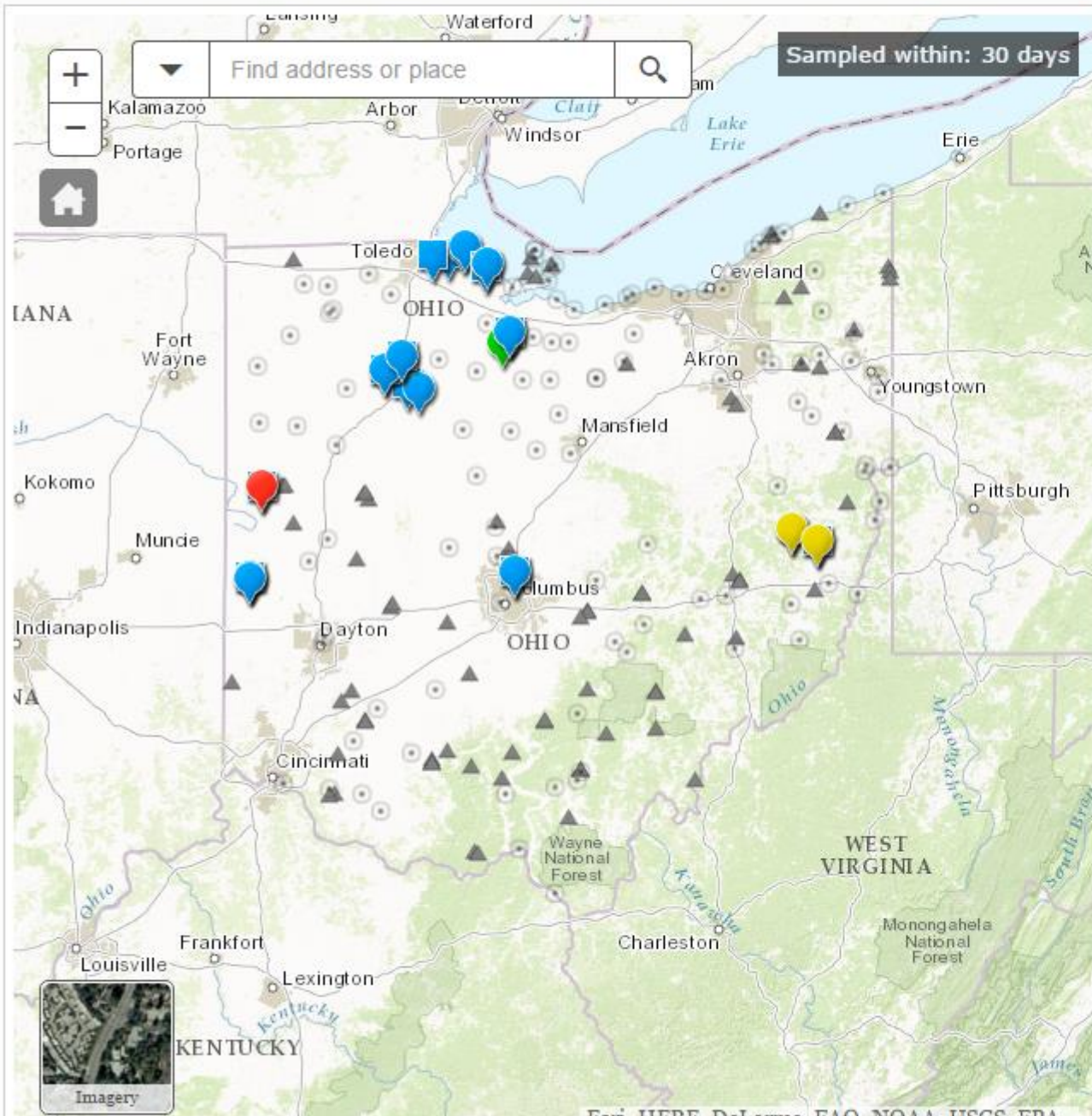
**Field ID: 29-00035**

FACILITY	Xenia Ford Road WWTP
OEPA SITEID	29-00035
COUNTY	Greene
Field Name	PHI-29
Permit	1PD00015
CPLR	No
COMPLAINT	No
RETIRED	No
COMMENTS	
AreaSqft	4,105,242
Acres	94.2
Latitude	39.6848
Longitude	-83.9752
<a href="#">Zoom to</a>	





# Harmful Algal Blooms: Cyanotoxin Monitoring in Ohio



Legend    Toxin Results    About this site

**Filter the sampling sites by time period or type**

Sites sampled within:

- 7 days
- 14 days
- 30 days
- 90 days

Type of Sampling Sites:

- Lakes
- Rivers
- Groundwater
- PWS R
- Finished Drinking Water
- ODNR Beaches

[Download](#) all results (excel file).

## Microcystins Concentration

- |  |                                           |  |                |
|--|-------------------------------------------|--|----------------|
|  | Below detection (<0.30 µg/l)              |  | Public Finish  |
|  | Between 0.30 - 1.6 µg/l                   |  | Reser          |
|  | Between 1.6 - 6 µg/l                      |  | Lakes          |
|  | Between 6 - 20 µg/l                       |  | Ground         |
|  | Greater than 20 µg/l                      |  | PWS            |
|  | Saxitoxin, Cylindrospermopsin, Anatoxin-a |  | ODNR (no data) |
|  |                                           |  | Non-data       |

Markers on the map show sites sampled for microcystins during the selected time period. Marker color indicates that one or more results during the selected time period were within the range indicated by the marker color. Marker shape indicates the type of sampling site.

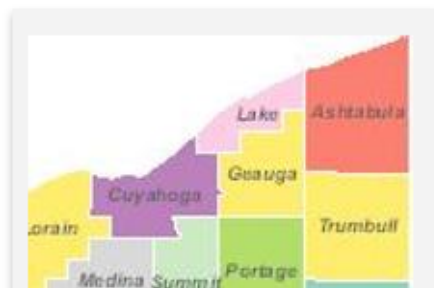
Concentration Units µg/l - micrograms per liter

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Recycling, Litter Prevention ...



River Miles Index Map for Oh...



Water Quality and Hydrologi...



Water Quality Monitoring and...



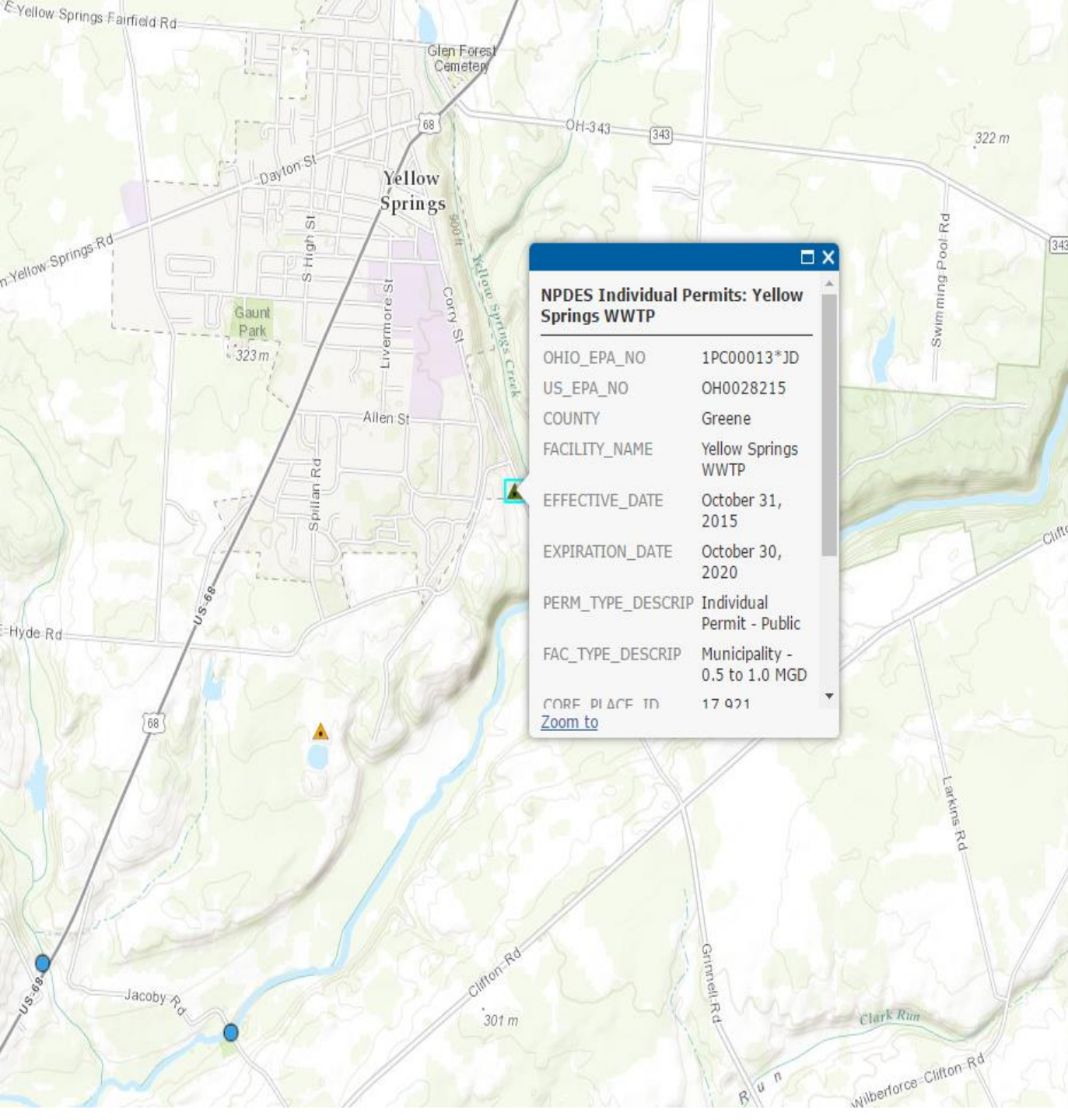
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**NPDES Individual Permits: Yellow Springs WWTP**

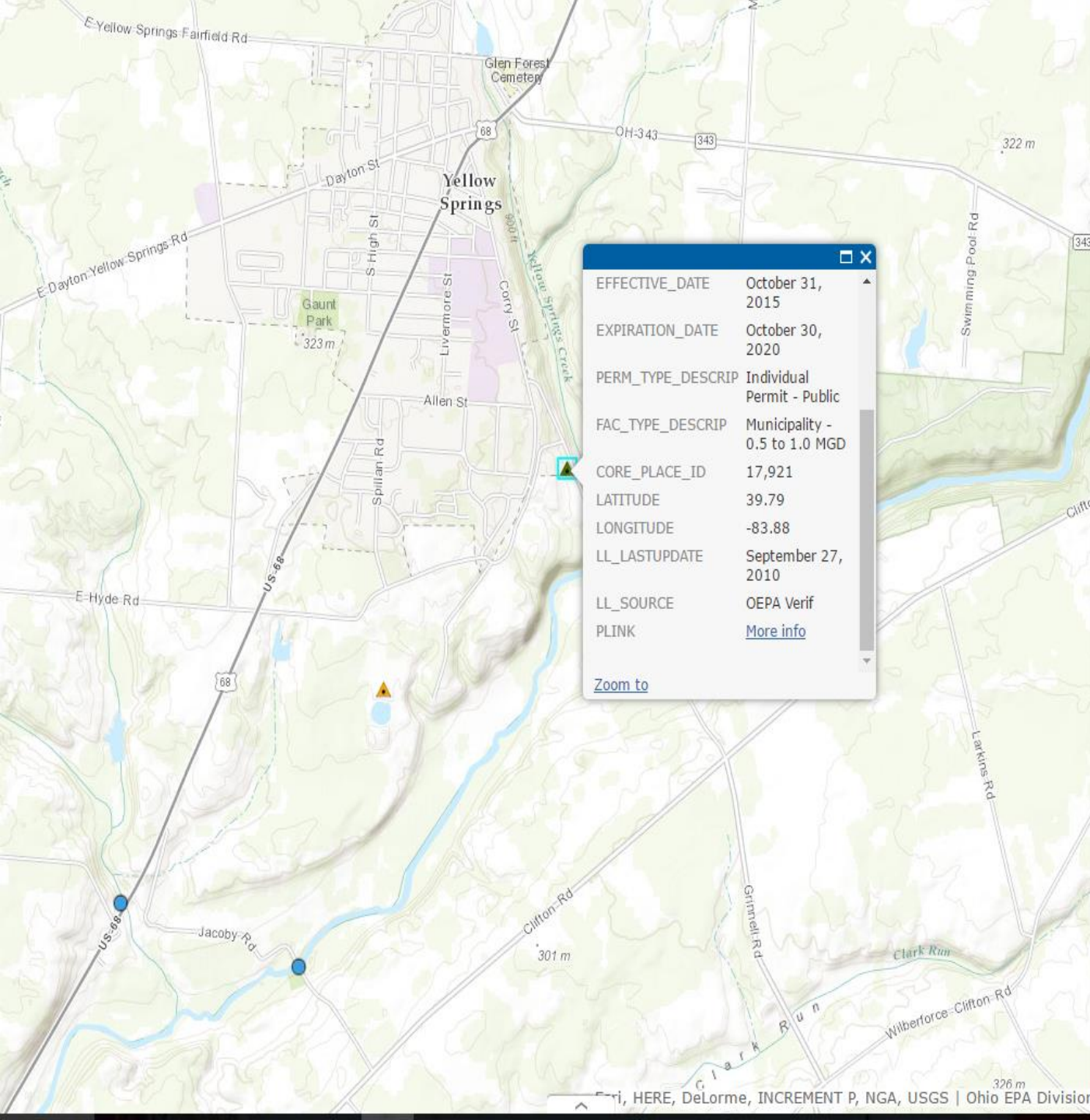
OHIO_EPA_NO	1PC00013*JD
US_EPA_NO	OH0028215
COUNTY	Greene
FACILITY_NAME	Yellow Springs WWTP
EFFECTIVE_DATE	October 31, 2015
EXPIRATION_DATE	October 30, 2020
PERM_TYPE_DESCRIP	Individual Permit - Public
FAC_TYPE_DESCRIP	Municipality - 0.5 to 1.0 MGD
CORE PLACE ID	17 021

[Zoom to](#)

**Layer List**

Operational Layers

- Subbasins (HUC 08) ▼
- Aquatic Life Use Monitoring prod ▼
- NPDES Individual Permits ▼
- Monitoring Stations (EA3) ▼
- Hydrography (flow direction) ▼
- World\_Topo\_Map ▼
- World\_Light\_Gray\_Reference ▼



EFFECTIVE_DATE	October 31, 2015
EXPIRATION_DATE	October 30, 2020
PERM_TYPE_DESCRIP	Individual Permit - Public
FAC_TYPE_DESCRIP	Municipality - 0.5 to 1.0 MGD
CORE_PLACE_ID	17,921
LATITUDE	39.79
LONGITUDE	-83.88
LL_LASTUPDATE	September 27, 2010
LL_SOURCE	OEPA Verif
PLINK	<a href="#">More info</a>
<a href="#">Zoom to</a>	

## Layer List

### Operational Layers

- Subbasins (HUC 08) ▼
- Aquatic Life Use Monitoring prod ▼
- NPDES Individual Permits ▼
- Monitoring Stations (EA3) ▼
- Hydrography (flow direction) ▼
- World\_Topo\_Map ▼
- World\_Light\_Gray\_Reference ▼

Application No. OH0028215

Issue Date: September 23, 2015

Effective Date: November 1, 2015

Expiration Date: October 31, 2020

Ohio Environmental Protection Agency  
Authorization to Discharge Under the  
National Pollutant Discharge Elimination System

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. seq., hereinafter referred to as the "Act"), and the Ohio Water Pollution Control Act (Ohio Revised Code Section 6111),

Village of Yellow Springs

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge from the Village of Yellow Springs wastewater treatment works located at 3835 Grinnell Road, Yellow Springs, Ohio, Greene County and discharging to an unnamed tributary of Yellow Springs Creek in accordance with the conditions specified in Parts I, II, and III of this permit.

This permit is conditioned upon payment of applicable fees as required by Section 3745.11 of the Ohio Revised Code.

This permit and the authorization to discharge shall expire at midnight on the expiration date shown above. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information and forms as are required by the Ohio EPA no later than 180 days prior to the above date of expiration.

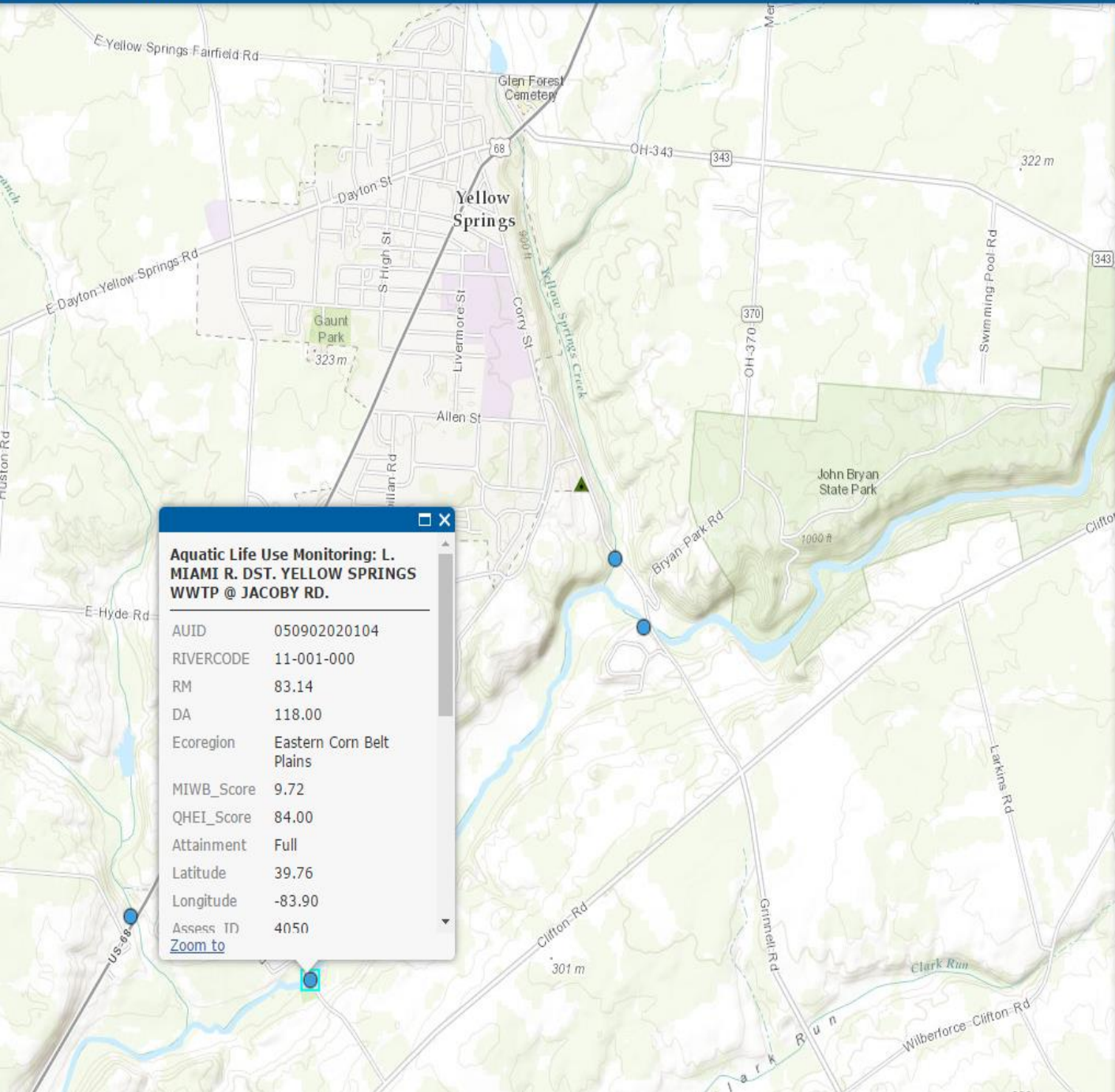
---

Craig W. Butler  
Director

Total Pages: 35







**Aquatic Life Use Monitoring: L. MIAMI R. DST. YELLOW SPRINGS WWTP @ JACOBY RD.**

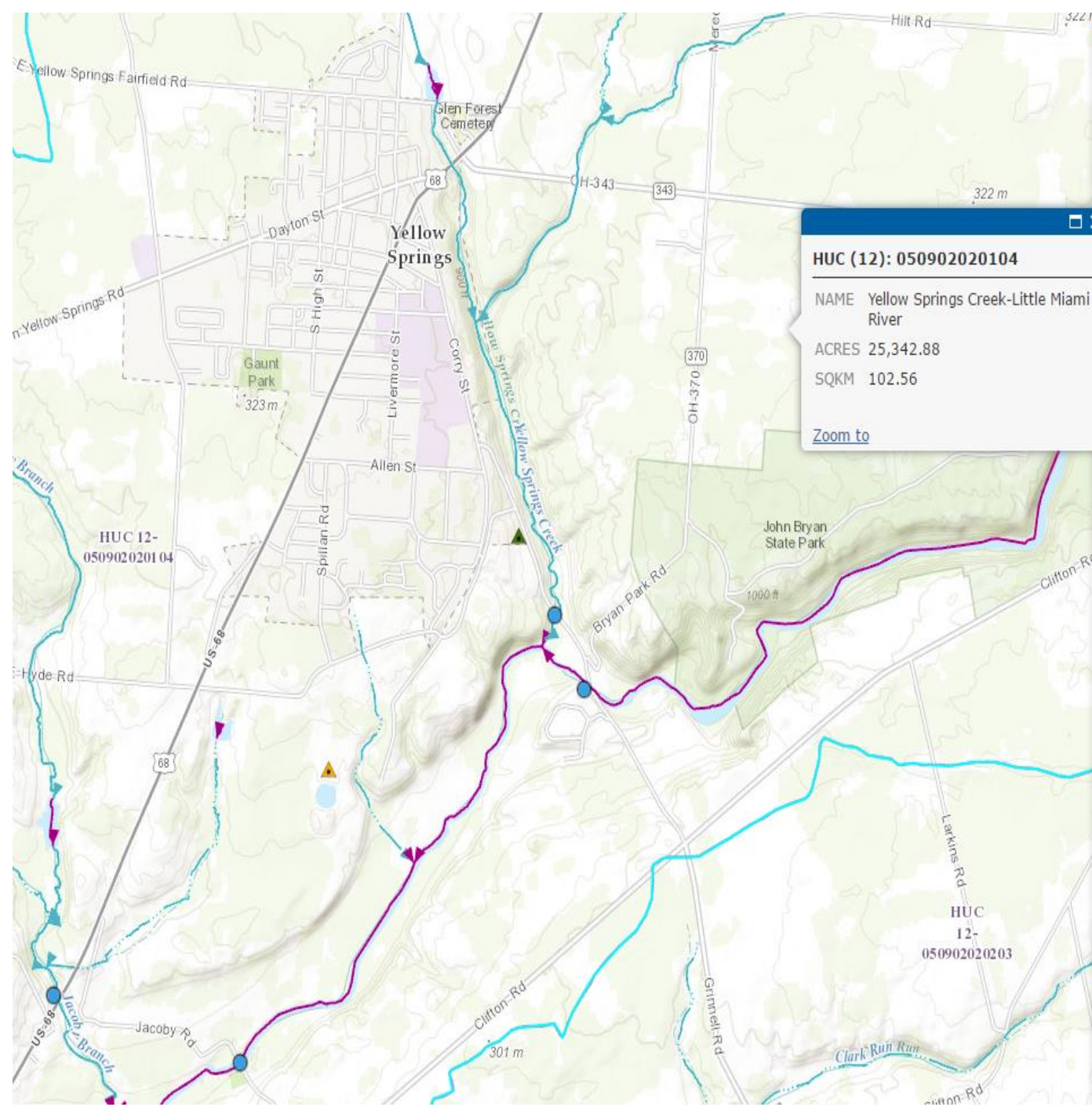
AUID	050902020104
RIVERCODE	11-001-000
RM	83.14
DA	118.00
Ecoregion	Eastern Corn Belt Plains
MIWB_Score	9.72
QHEI_Score	84.00
Attainment	Full
Latitude	39.76
Longitude	-83.90
Assess ID	4050

[Zoom to](#)

**Layer List**

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- Monitoring Stations (EA3)
- Hydrography (flow direction)
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- World\_Light\_Gray\_Reference



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  - NPDES Individual Permits
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  - Hydrography (flow direction)
  - World\_Topo\_Map
  - World\_Light\_Gray\_Reference