

Ohio EPA Surface Water Update

Southwest Ohio Water Environment Association
Industrial Waste Seminar
January 25, 2024

Tom Lipp & Rob Zimmer
Environmental Specialists

Overview

1. Contacts Update
2. NPDES Permitting Updates
3. Compliance Assistance
4. Biosolids
5. H2Ohio

Administrative / Contacts Updates

Division of Surface Water

New Chief of Division of Surface Water

- Mark Johnson
- Appointed in August 2023

Ohio EPA History

- Joined Ohio EPA in 2012
- Previous experience in DSW, DDAGW and DERR
- Assistant Director of the Ohio EPA from August 2022-August 2023



Municipal Facility Contacts

County	Staff
Brown	Richard Miller
Butler	Kevin Chandler
Champaign	Jacob Taylor
Clark	Amy Wilcox
Clermont	Apryl Taylor
Clinton	Apryl Taylor
Darke	Jacob Taylor
Greene	Amy Wilcox

County	Staff
Hamilton	Glen Vonderembse/ Risa Stumbo
Highland	Risa Stumbo
Logan	Jacob Taylor
Miami	Amy Wilcox
Montgomery	Richard Miller
Preble	Richard Miller
Shelby	Glen Vonderembse
Warren	Kevin Chandler

Staff	Email	Phone
Richard Miller	Richard.Miller@epa.ohio.gov	(937) 285-6647
Kevin Chandler	Kevin.Chandler@epa.ohio.gov	(937) 285-6034
Jacob Taylor	Jacob.Taylor@epa.ohio.gov	(937) 285-6096
Amy Wilcox	Amy.Wilcox@epa.ohio.gov	(937) 285-6103
Apryl Taylor	Apryl.Taylor@epa.ohio.gov	(937) 285-6032
Glen Vonderembse	Glen.Vonderembse@epa.ohio.gov	(937) 285-6033
Risa Stumbo	Risa.Stumbo@epa.ohio.gov	(937) 285-6091



Industrial Facility Contacts

County	Staff	County	Staff
Brown	Thomas Lipp	Hamilton	Thomas Lipp
Butler	Thomas Lipp	Highland	Thomas Lipp
Champaign	Rob Zimmer	Logan	Rob Zimmer
Clark	Rob Zimmer	Miami	Rob Zimmer
Clermont	Thomas Lipp	Montgomery	Rob Zimmer
Clinton	Thomas Lipp	Preble	Rob Zimmer
Darke	Rob Zimmer	Shelby	Rob Zimmer
Greene	Rob Zimmer	Warren	Thomas Lipp



Staff	Email	Phone
Thomas Lipp	Thomas.Lipp@epa.ohio.gov	(937) 285-6004
Rob Zimmer	Robert.Zimmer2@epa.ohio.gov	(937) 285-6444

Stormwater Facility Contacts

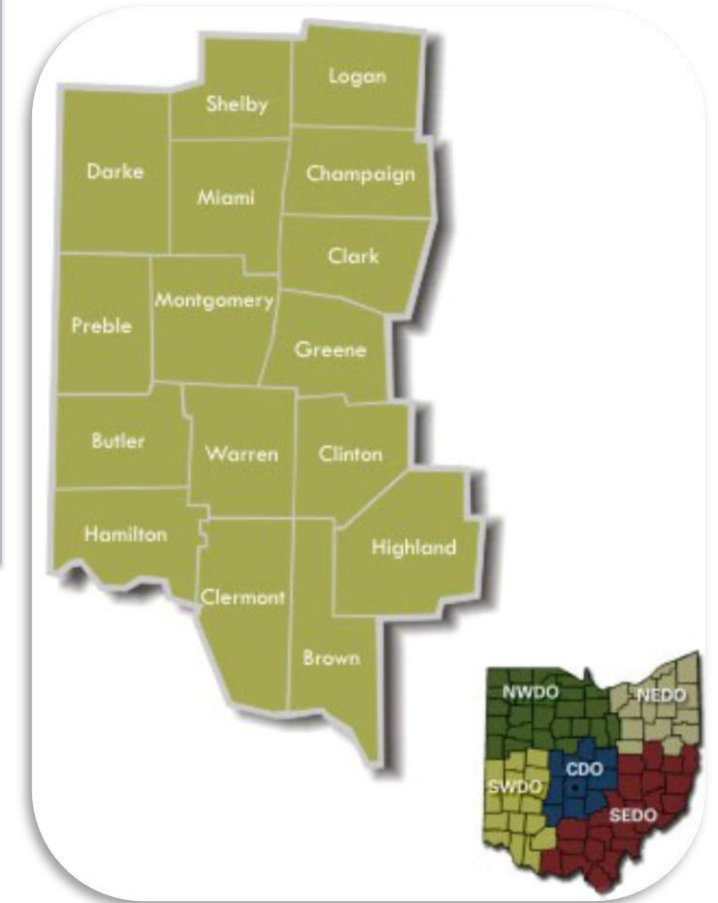
County	Staff	County	Staff
Brown	Daniel Hoit	Hamilton	Michelle Flanagan
Butler	Michelle Flanagan	Highland	Michelle Flanagan
Champaign	Daniel Hoit	Logan	Michelle Flanagan
Clark	Michelle Flanagan	Miami	Michelle Flanagan
Clermont	Daniel Hoit	Montgomery	Michelle Flanagan
Clinton	Daniel Hoit	Preble	Daniel Hoit
Darke	Michelle Flanagan	Shelby	Daniel Hoit
Greene	Daniel Hoit	Warren	Daniel Hoit



Staff	Email	Phone
Daniel Hoit	Daniel.Hoit@epa.ohio.gov	(937) 285-6104
Michelle Flanagan	Michelle.Flanagan@epa.ohio.gov	(937) 285-6440

Water Quality and Pretreatment Program Contacts

Pretreatment	Tyler Bowman	Tyler.Bowman@epa.ohio.gov (937) 285-6475
Pretreatment / Biosolids	Kristen Diesburg	Kristen.Diesburg@epa.ohio.gov (937) 285-6442
Water Quality	Matt Walbridge	Matthew.Walbridge@epa.ohio.gov (937) 285-6095
Water Quality	Michelle Waller	Michelle.Waller@epa.ohio.gov (937) 285-6028



Note:

- Staff assignments subject to change – may result in contact changes
- If unsure of contact – check Ohio EPA website or contact the Ohio EPA Southwest District Office main telephone number (937) 285-6357

NPDES Permitting Updates

Permit Writing Changes (Hydrostatic Test Waters)

Hydrostatic Test Water Discharge- General Permit (OHH000004)

- Expires on January 31, 2028
- New permit effective February 01, 2023
- Reminder: Submit Notice of Intent (NOI) to continue coverage

Permit Writing Changes (Bulk Fuel Storage)

Bulk Fuel Storage - General Permit (OHB000004)

- January 31, 2028
- New permit effective February 01, 2023
- Reminder: Submit Notice of Intent (NOI) to continue coverage

Permit Writing Changes (Construction Stormwater)

Construction Stormwater - General Permit (OHC000006)

- Expires on April 22, 2028
- New permit effective April 23, 2023
- Reminder: Submit Notice of Intent (NOI) to continue coverage

U.S. EPA Proposed Rule

Meat and Poultry Products

- 40 CFR Part 432
- Applicable to **direct** and **indirect** dischargers
- Preferred option
 - More stringent limits on **nitrogen** and new limits on **phosphorus**
 - New pretreatment standards for **oil/grease, TSS, and BOD**

Public Hearing

- January 31, in-person

[Meat and Poultry Products Effluent Guidelines - 2024 Proposed Rule | U.S. EPA](#)

Compliance Assistance

Compliance Assistance (OCAPP)

Ohio EPA Office of Compliance Assistance and Pollution Prevention (OCAPP)

- Free and confidential assistance
- Provides a variety of on-site assistance services
- Assistance completing and submitting permit applications and reports, including navigating Ohio EPA's e-Business Center

Benefits

- Save money
- Improve business performance
- Achieve environmental compliance
- Reduce liability and potential for violations or penalties
- Protect your workers' health and safety
- Help preserve natural resources

Ohio's Biosolids Program

- Goals of biosolids program
 - protect public health and the environment
 - encourage the beneficial reuse of biosolids
 - minimize the creation of nuisance odors
- Biosolids program regulates
 - disposal or beneficial use of sewage sludge and biosolids in Ohio
- Rules in Ohio Administrative Code (OAC) 3745-40



2023/04/26

New Biosolids Program Contacts

Betsy Sheerin (VanWormer)

Statewide Biosolids Program Supervisor
(614) 644-2150
Betsy.Sheerin@epa.ohio.gov

Catherine Robertson

Northwest District
(419) 373-3019
Catherine.Robertson@epa.ohio.gov

Kristen Diesburg

Southwest District
(937) 285-6442
Kristen.Diesburg@epa.ohio.gov



John Micklewright

Northeast District
(330) 963-1285
John.Micklewright@epa.ohio.gov

Hannah Hurdley

Central and Southeast Districts
(614) 644-2033
Hannah.Hurdley@epa.ohio.gov

Whitney White

Central and Southeast Districts
(614) 705-1141
Whitney.White@epa.ohio.gov

Updated Resource: Biosolids Webpage

Ohio EPA / Divisions & Offices / Surface Water / Permitting / Biosolids Program

Biosolids Program

Ohio EPA's biosolids program regulates the disposal of sewage sludge and/or the beneficial use of biosolids generated by non-industrial wastewater treatment plants in Ohio, as well as any sewage sludge or biosolids brought into Ohio by out-of-state, non-industrial wastewater treatment plants. The goals of the biosolids program are to protect public health and the environment, encourage the beneficial reuse of biosolids and minimize the creation of nuisance odors.

To learn more about biosolids, click [here](#).

[Expand All Sections](#)

- Program Updates
- Biosolids in Ohio
- Forms and Calculators
- Rules
- Guidance Documents
- Contacts

LAUNCH
Biosolids Application Sites Map

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For more information

- [U.S. EPA Biosolids Webpage](#)
- [U.S. EPA - Assessing Pollutants Found in Biosolids](#)
- [Individual Wastewater Permit Finder](#)
- [eBusiness Center Help Desk](#)

<https://epa.ohio.gov/divisions-and-offices/surface-water/permitting/biosolids-program>

Updated Resource: Agronomic Rate Calculator



Division of Surface Water Biosolids Agronomic Rate Calculation Worksheet

[Click here for instructions for completing the agronomic rate worksheet](#)

General Information

Ohio EPA #
Field ID #
Generator Name

Biosolids Nutrient Data

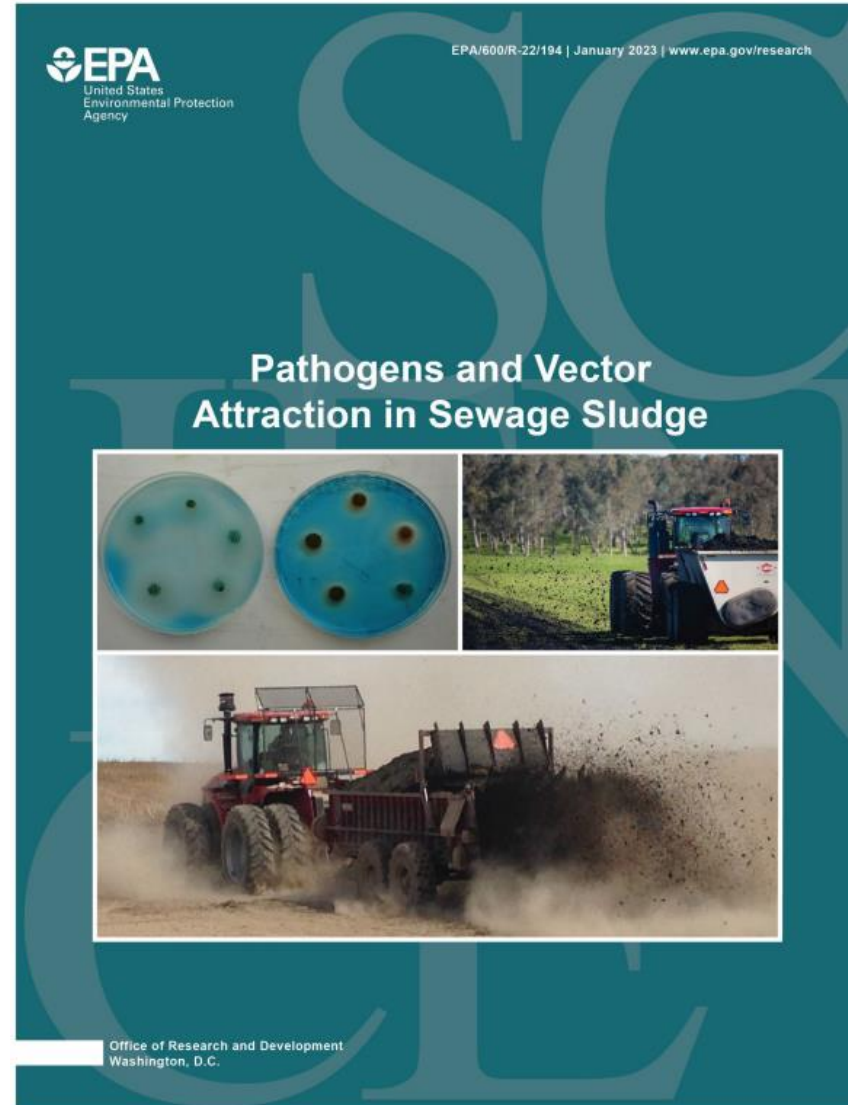
Ammonia Nitrogen
Total Kjeldahl Nitrogen
Total Phosphorus
Organic Nitrogen
Available Nitrogen
Phosphate (P ₂ O ₅)

Beneficial Use Site Information

Average Soil Phosphorus		ppm	Mehlich 3	Extraction Method	
	0.00	ppm			
Maximum Soil Phosphorus		ppm			
	0.00	ppm			
Date of Soil Phosphorus Analysis					
County					
Predominant Soil Type					
Hydrologic Soil Group					
	Year 1	Crop 1	Crop 2	Crop 3	Crop 4
Crop Type(s)					
Expected Crop Yield(s)(bu/acre or tons/acre)					
	Year 2	Crop 1	Crop 2	Crop 3	Crop 4
Crop Type(s)					
Expected Crop Yield(s)(bu/acre or tons/acre)					
	Year 3	Crop 1	Crop 2	Crop 3	Crop 4
Crop Type(s)					
Expected Crop Yield(s)(bu/acre or tons/acre)					
Crop Nitrogen Requirements (Year 1)		lb/acre			
Existing Available Nitrogen		lb/acre			
Non-Biosolids Nitrogen Application		lb/acre			
P ₂ O ₅ Fertilizer Application		lb/acre			
Non-Biosolids Organic Phosphate (P ₂ O ₅) Application		lb/acre			
Biosolids Phosphate (P ₂ O ₅) Application	No Input	lb/acre			

Calculator and instructions on Ohio EPA Biosolids webpage <https://epa.ohio.gov/divisions-and-offices/surface-water/permitting/biosolids-program>


Updated Resource: White House Document



Your best biosolids resource, now updated!

<https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge>

Updated Resource – SOUR calculator



Specific Oxygen Uptake Rate (SOUR) Calculator

Date of SOUR Test:

Digester temperature at time of SOUR Test:

Total Solids

Total Solids %

-or-

Sample volume used for total solids test: mL

Weight of dish: g

Weight of dish + dried solids: g

Weight of dried solids: g

Total Solids: g/L

SOUR

Time (Minutes)	Temperature of Sample	Dissolved Oxygen (mg/L)
	°C	
0	<input type="text"/>	<input type="text"/>
1	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>

SOUR Temperature Correction

Average Sewage Sludge Temperature During Test
°C

Temperature-corrected SOUR = (mg/g)/hr

SOUR passes if result is ≤ 1.5 (mg/g)hr

Version 11/2023. Use Standard Methods 2710B for SOUR and 2540G for total solids.

Calculator and instructions on Ohio EPA Biosolids webpage

New Resource: Narrative template

(details on next slide)

Required by rule

- EQ: OAC 3745-40-09(C)(1)(c)
- Class B: OAC 3745-40-09(C)(3)(c)

A narrative description, in the form of a standard operating procedure, of how the pathogen reduction and the vector attraction reduction options meet Class B or EQ requirements.

**Narrative Description of City of Atlantis WWTP's
Class B Biosolids Program**

Comment:

- This Standard Operating Procedure is intended to be useful for YOUR specific facility. Please update **BLUE TEXT** to information specific to your facility and add or change other text as needed.
- The pathogen reduction and vector attraction options described below are only 2 of the 26 options (16 pathogen reduction, 10 vector attraction reduction) that can be selected. For other options, see Ohio Administrative Code 3475-40-04.
- This comment box can be deleted when you save your version of this biosolids SOP.

The sludge produced by the Atlantis WWTP is considered Class B biosolids and must be treated to meet requirements for screening (5/8" or less), permit limits, Pathogen Reduction, and Vector Attraction Reduction before beneficial use via land application. This narrative SOP is intended to fulfill OAC 3745-40-09(C)(3)(c).

Any samples collected to meet these requirements should be analyzed at least **once per year**, the frequency listed in Table 581 of the NPDES permit #19200999.

Permit Limits

Atlantis WWTP sludge meets the permit limits in Table 581 of the NPDES permit. Sludge cannot be land applied unless metals results are below the maximum concentration limits listed in the permit. See the sludge sample collection SOP.

Pathogen Reduction

Atlantis WWTP meets pathogen reduction by using the P-1 option of the geometric mean of seven fecal coliforms as described in OAC 3745-40-04(B)(1). If the geometric mean is above 2,000,000 CFU (colony forming units) or MPN (most probable number), sludge does not meet pathogen reduction. Treated sludge must achieve a pathogen reduction option prior to land application. See the sludge fecal coliform sample collection SOP.

Vector Attraction Reduction

Atlantis WWTP meets vector attraction reduction by using the VAR-10 option of immediate incorporation as described in OAC 3745-40-04(C)(10):

- Biosolids shall be incorporated into the soil within six hours of delivery to the authorized beneficial use site.
- Recordkeeping: Record the date and time of delivery and incorporation. The certification statement from the beneficial user shall be submitted on the annual report.

"Incorporation" means the mixing of biosolids with soil on an authorized beneficial use site to a minimum depth of four inches or greater by such means as discing, plowing, or tilling.

New Resource: Narrative Template

City of **Metropolis WWTP** – Class B Biosolids Program

Comment:

- This Standard Operating Procedure is intended to be useful for **YOUR** specific facility. Please update **BLUE TEXT** to information specific to your facility and add or change other text as needed.
- The pathogen reduction and vector attraction options described below are only 2 of the 26 options (16 pathogen reduction, 10 vector attraction reduction) that can be selected. For other options, see Ohio Administrative Code 3475-40-04.
- This comment box can be deleted when you save your version of this biosolids SOP.

The sludge produced by the **Metropolis WWTP** is considered Class B biosolids and must meet requirements for screening (5/8" or less), permit limits, Pathogen Reduction, and Vector Attraction Reduction before beneficial use via land application. This narrative SOP is intended to fulfill OAC 3745-40-09(C)(3)(c).

Any samples collected to meet these requirements should be analyzed at least **once per year**, the frequency listed in Table 581 of the NPDES permit #**1PZ00999**.

Permit Limits

Metropolis WWTP sludge meets the permit limits in Table 581 of the NPDES permit. Sludge cannot be land applied unless metals results are below the maximum concentration limits listed in the permit. Sludge cannot be resampled to demonstrate compliance and should either be re-treated or disposed of in a permitted landfill. See the sludge sample collection SOP.

Pathogen Reduction

Metropolis WWTP meets pathogen reduction by using the P-1 option of the geometric mean of seven fecal coliforms as described in OAC 3745-40-04(B)(1). If the geometric mean is above 2,000,000 CFU (colony forming units) or MPN (most probable number), sludge does not meet pathogen reduction. Treated sludge must achieve a pathogen reduction option prior to land application. See the sludge fecal coliform sample collection SOP.

Vector Attraction Reduction

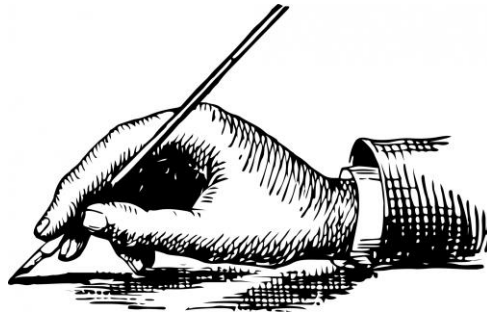
Metropolis WWTP meets vector attraction reduction by using the VAR-10 option of immediate incorporation as described in OAC 3745-40-04(C)(10):

- (a) Biosolids shall be incorporated into the soil within six hours of delivery to the authorized beneficial use site.
- (b) Recordkeeping: Record the date and time of delivery and incorporation. The certification statement from the beneficial user shall be submitted on the annual report.

"Incorporation" means the mixing of biosolids with soil on an authorized beneficial use site to a minimum depth of four inches or greater by such means as discing, plowing, or tilling.

Biosolids Rule Review

- Current rules: Ohio Administrative Code (OAC) 3745-40
 - Effective December 1, 2018
- Rules are reviewed every 5 years
- Early Stakeholder Outreach ended Nov. 29
- Public comment period TBD. Rules likely not finalized until end of 2024
- Get involved! <https://epa.ohio.gov/divisions-and-offices/surface-water/regulations>



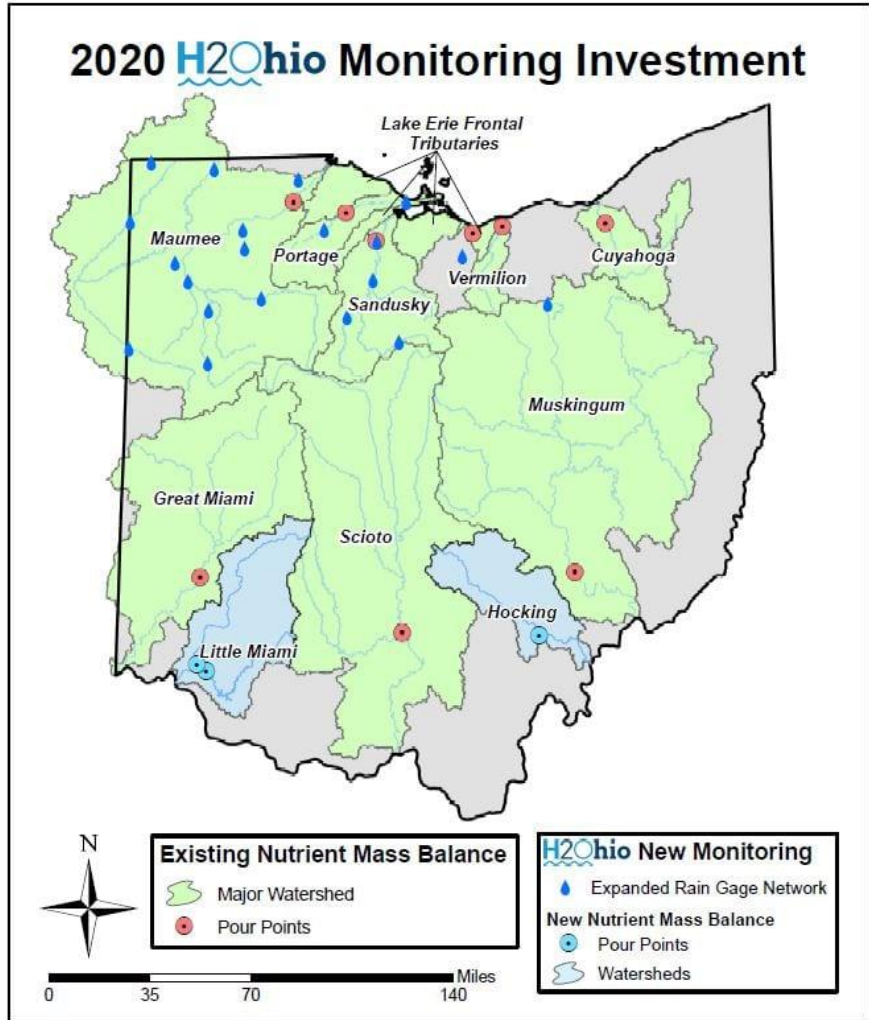
H2Ohio

- Water quality initiative launched in 2019
- Targeted priorities
 - Creating wetlands
 - Addressing failing septic systems
 - Preventing lead contamination
 - Reducing nutrient loading
- Partnered with ODNR, ODA, and Ohio EPA



[H2Ohio | An Ohio Partnership for better water statewide](#)

H2Ohio Rivers Initiative



River restoration

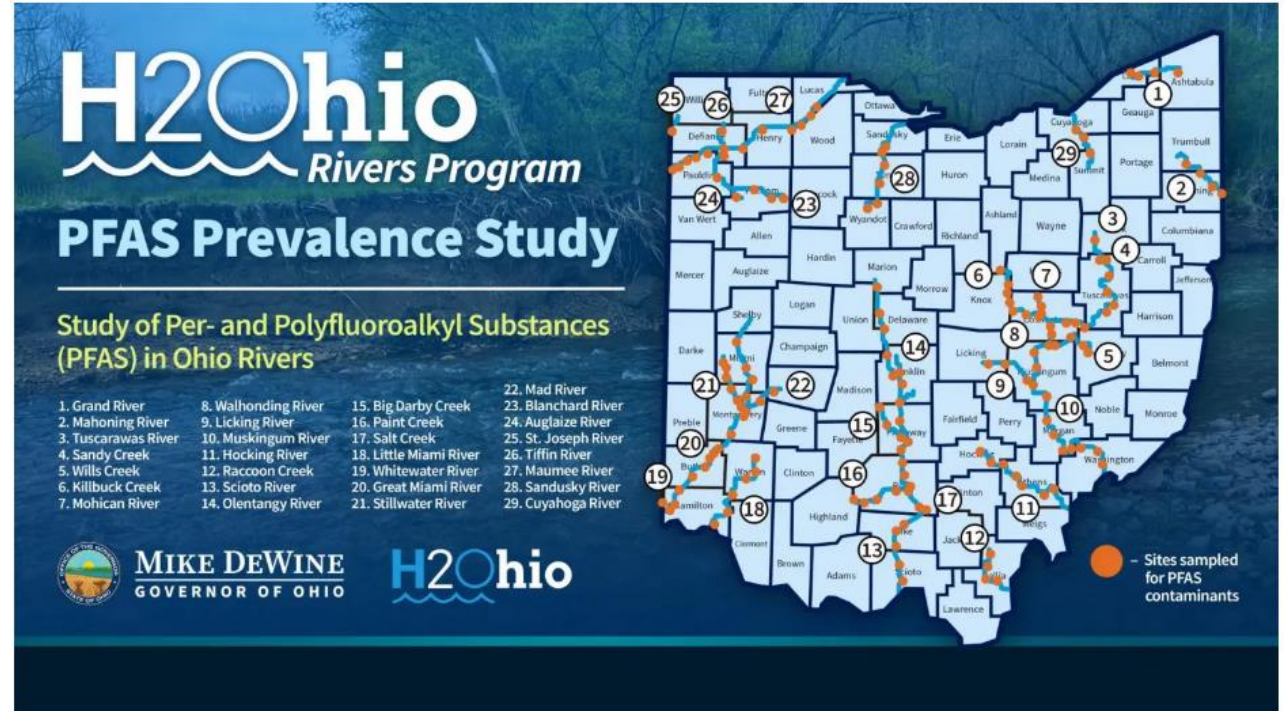
- Survey of stream qualities
 - Nutrient Mass Balance Study expanded to include Little Miami, East Fork of the Little Miami and Hocking Rivers (72.59% of Ohio's watersheds)
- Removal of specific river dams along the Great Miami River
- Address rising salinity in Ohio's river and streams



H2Ohio Rivers Initiative

Statewide survey to measure the existing levels of PFAS in larger rivers

- 29 Rivers
- 150+ sample locations
- Looking to identify **sources** of contamination



H2Ohio Rivers Initiative

Chloride Reduction Grants

- Available to Ohio municipalities, villages, townships and counties that are improving road deicing equipment and storage facilities in a manner that reduces salt pollution in Ohio's waterways.
- Funding will support upgrades to road salt application equipment and storage facilities.
- Goal: reduce over-application of deicing materials as part of addressing rising salinity in Ohio's waterways.



H2Ohio Rivers Initiative

Ohio EPA / Divisions & Offices / Surface Water / Financial Assistance / 319 Grants and Other Non-Point Source Grants

319 Grants and Other Non-Point Source Grants

Surface Water

[Expand All Sections](#)

Welcome

FFY2024



Announcements

Chloride Reduction Grants - Due January 31, 2024



About DSW

- [Request for Proposals](#)
- [Application Form](#)

Programs

Financial Assistance

Section 319 Request for Proposals - Due November 9, 2023



Guides & Manuals

FFY2023



Permitting

FFY2022



Reports & Data

Regulations

Section 319 Subgrant Guidance Sheets




<https://epa.ohio.gov/divisions-and-offices/surface-water/financial-assistance/319-grants>



Environmental
Protection
Agency

H2Ohio Rivers Initiative

		H2Ohio Rivers Initiative Chloride Reduction Grant Application Ohio Environmental Protection Agency Division of Surface Water	
Part 1: Cover Sheet			
Project Applicant Information			
Organization:			
Mailing Address:		City:	
State:	Zip+4	County:	
Federal Tax Identification #:			
Do you apply salt or other deicers to roads, sidewalks or surface lots throughout your territory?			Select Yes or No
General Project Information <small>Please ensure the person designated as the authorizing official has full authority to sign the grant agreement and any contracts related to the grant.</small>			
Project Manager First Name		Project Manager Last Name	
Phone Number (with Area Code)			
Project Manager Email:			
Address: (if different from above)			
City:	State:	Zip +4	
Total Funds Requested:			
Name (12-digit HUC):		USGS 12-digit HUC Number Code:	
This project is described in an approved 9-Element Ohio Nonpoint Implementation Strategy (NPS-IS) or AMDAT strategy?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> (see Below)	
		<input type="checkbox"/> Not Sure	

Applications

- Must be received by close of business on Jan. 31, 2024.
- Direct applications to:
 - John Mathews, Nonpoint Source (NPS) Program Manager: john.mathews@epa.ohio.gov
 - Kimberly Gaddis, NPS Program Sr. Budget Analyst: kimberly.gaddis@epa.ohio.gov
 - Cara Hardesty, NPS Environmental Specialist: cara.hardesty@epa.ohio.gov

Thank You!

Questions?

Thomas.Lipp@epa.ohio.gov

(937) 285-6004

Robert.Zimmer2@epa.ohio.gov

(937) 285-6444

Sources

- U.S. EPA Meat and Poultry Products Effluent Guidelines-2024 Proposed Rule: [Meat and Poultry Products Effluent Guidelines - 2024 Proposed Rule | US EPA](#)
- [Ohio EPA Biosolids Program](#)
- [Governor DeWine Announces Expansion of H2Ohio | H2Ohio](#)
- [H2Ohio Rivers Initiative | Ohio Environmental Protection Agency](#)
- [319 Grants and Other Non-Point Source Grants – Chloride Reduction Grants](#)
- [H2Ohio Rivers Initiative: Chloride Reduction Grants](#)