

WATER QUALITY PROGRAM UPDATE

Water Quality Subcommittee

March 20, 2026

ACTION REQUESTED

No action is requested. This item is for information and discussion.

PREVIOUS ACTION

NOACA staff provides quarterly updates on the Water Quality Planning Program to the Water Quality Subcommittee



REGIONAL COORDINATION WORK



CLEVELAND HARBOR DREDGING

Background

- Cleveland Harbor is usually dredged 2x / Year (Spring/Fall)
 - Avg dredge = 225,000 CY sediment / Year

2023 USACE Interim Dredge Material Management Plan (DMMP)

- Developed to address dredged sediment management needs for the Cleveland Harbor (2023-2027)
- In 2024, the Interim was changed to a Preliminary Assessment (PA) and Integrated Environmental Assessment (EA)

USACE DREDGE O & M PA ADDENDUM

January 16, 2026, Preliminary Assessment (PA)
Addendum

to

USACE 2023 Draft Interim Dredge Material
Management Plan (DMMP)

NEPA Scoping Information – Finding of No
Significant Impact (FONSI)

Comments were due: February 18, 2026



Operation and Maintenance
Preliminary Assessment Addendum
Cleveland Harbor, Ohio

National Environmental Policy Act
Scoping Information
EAXX-202-00-H5P-1757586263



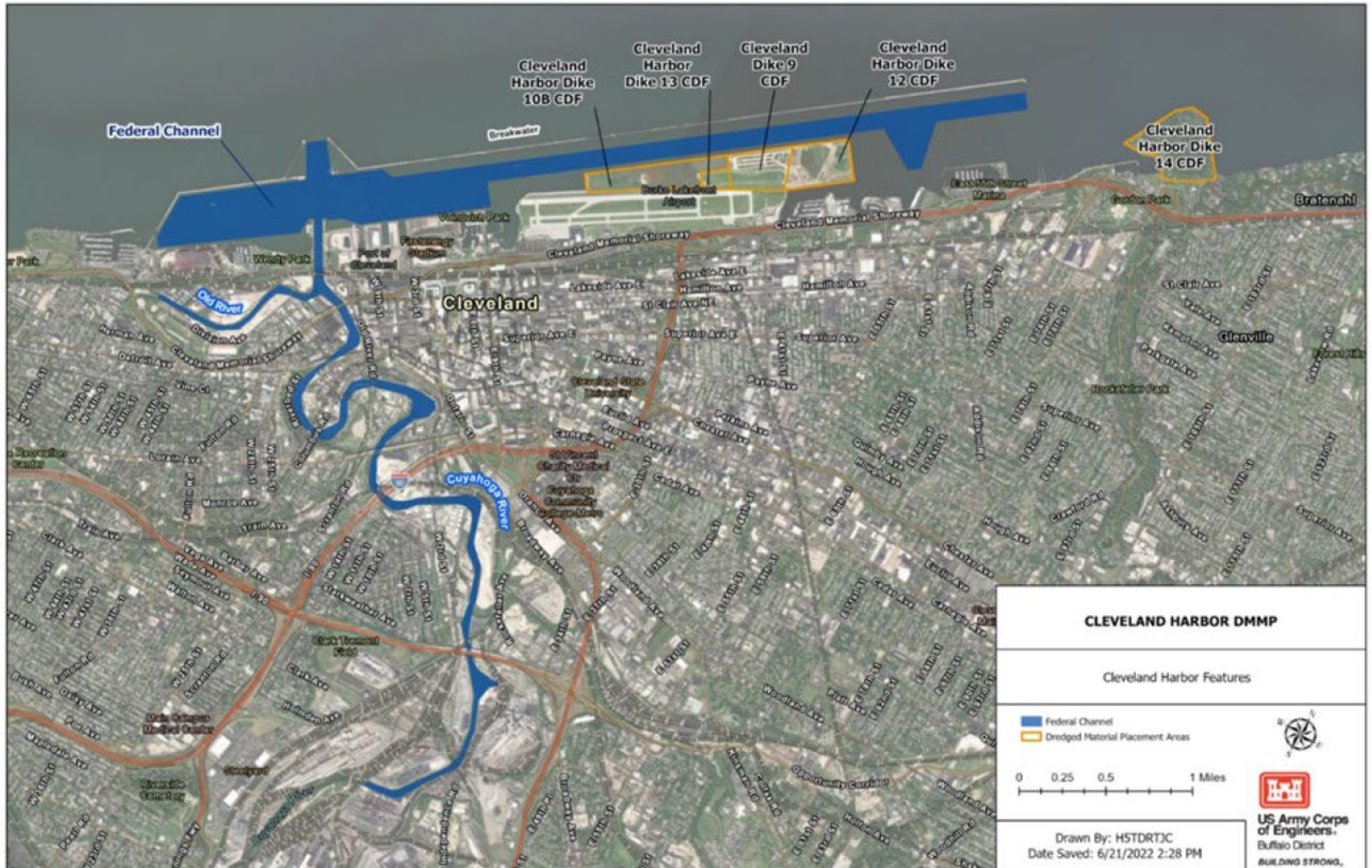
January 16, 2026

Buffalo District, U.S. Army Corps of Engineers
478 Main Street
Buffalo, New York 14202

STAKEHOLDER REVIEW/CONCERNS

2026 PA Addendum Alternatives

- Alternative 1 – No Action
- Alternative 2 – Sediment Recycling
 - Includes: “limited open-water placement” (10,000 CY/YR), placement at CDF 12 (125,000 CY/YR), and placement in at the Port of Cleveland’s Sediment Processing and Materials Facility (SPMF) (90,000 CY/YR)
 - Alternative achieves capacity needs of 225,000 CY/YR for 2027-29
- Alternative 3 – Littoral Nourishment
 - Includes: “limited open-water placement (10,000 CY/YR), placement at CDF 12 (150,000 CY/YR), and placement in the littoral drift (65,000 CY/YR).
 - In total, this alternative achieves capacity needs of 225,000 CY/YR for 2027-29



Federal Channel

Cleveland Harbor Dike 10B CDF

Cleveland Harbor Dike 13 CDF

Cleveland Dike 9 CDF

Cleveland Harbor Dike 12 CDF

Cleveland Harbor Dike 14 CDF

Cleveland

Glenville

Old River

Cuyahoga River

Breakwater

East 15th Street Marina

East 15th Street Marina

Brookside Park

Cleveland Memorial Shoreway

Cleveland Memorial Shoreway

Windy Park

Post of Cleveland

Photography Studios

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Hamilton Ave

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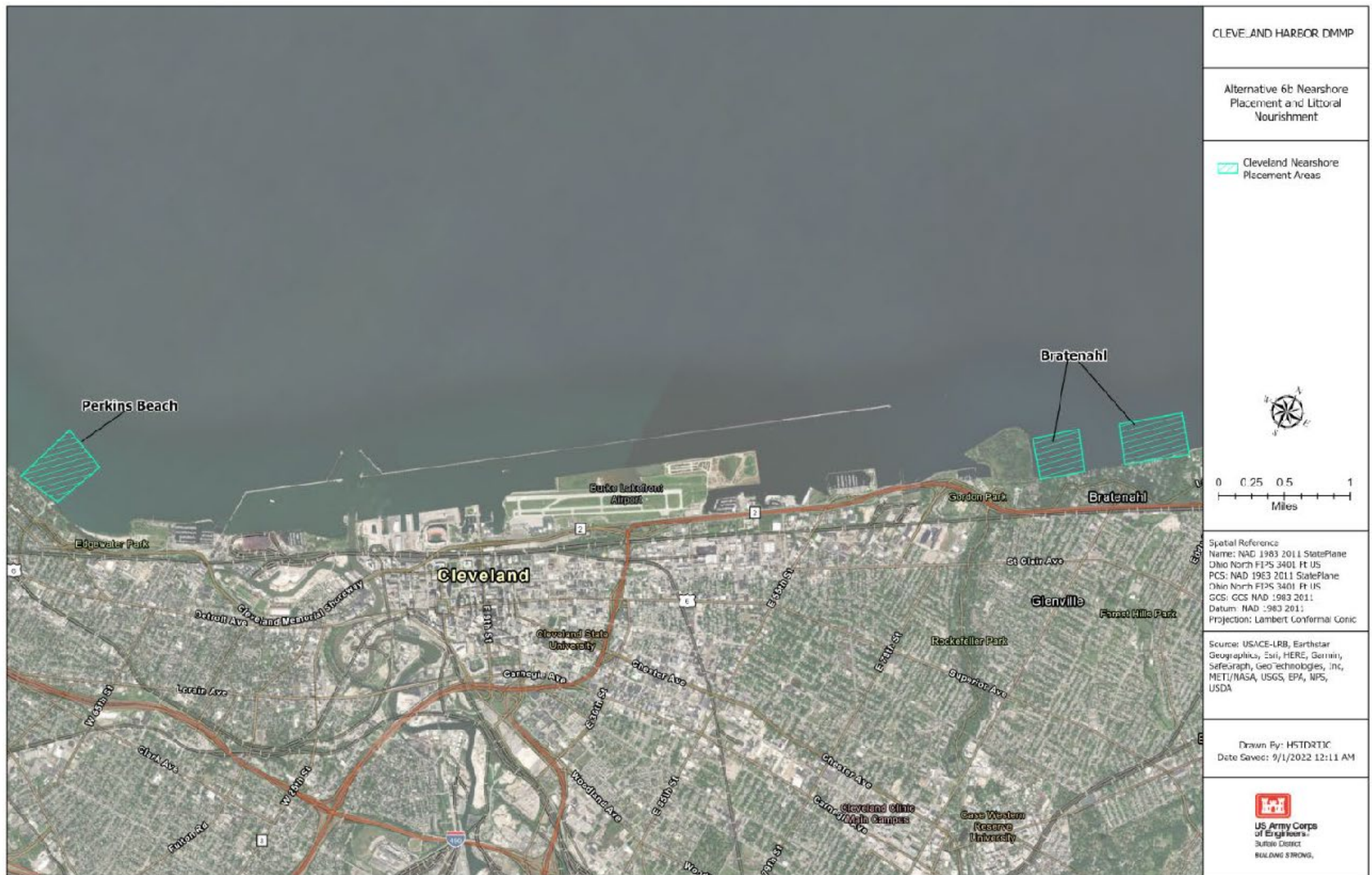


Figure 3 Nearshore sites for littoral drift placement, named Perkins Beach and Bratenahl.

STAKEHOLDER REVIEW/CONCERNS

Stakeholder Review

- NOACA staff contacted Ohio EPA to discuss the 2026 Addendum & proposed alternatives
- Ohio EPA coordinated with the Port of Cleveland
- Port of Cleveland Coordinated with Cleveland MetroParks and other stakeholders
- Ohio EPA provided written comments to USACE on February 17, 2026
- NOACA staff utilized Ohio EPA's written comments to prepare this presentation

STAKEHOLDER REVIEW/CONCERNS

Concerns

- The 2023 Interim DMMP was changed to a “PA and Integrated EA” November 2024 (included various alternatives)
- 2026 PA Addendum was unclear whether the three alternatives are in addition to or replace alternatives to the 2024 PA and Integrated EA
- 2026 PA Addendum Alternative 2 and Alternative 3 include “limited open-water placement” of up to 10,000 CY/YR
 - Recommend removal of limited open-water placement and maximize dredge upland beneficial use at Port’s Sediment Processing and Materials Facility (SPMF)

STAKEHOLDER REVIEW/CONCERNS

Concerns Continued

- Alternative 3 includes placement in the littoral drift (65,000 CY/YR)
 - PA Addendum utilizes limited historical sediment particle size data from 1993
 - Cleveland Harbor sediment was last sampled and analyzed in 2024 and reported the percentage of sand/coarse grain sediment is relatively low in the upper river channel

STAKEHOLDER REVIEW/CONCERNS

Concerns Continued

- USACE is resampling Cleveland Harbor in 2026
 - ORC 6111.32(C)(4) - dredged sediment may be placed in the littoral drift if at least 60% of the dredged material is sand, and demonstration that the sediment chemical data is appropriate for placement
- Recommend maximized sediment beneficial use through the Port's Sediment Processing and Materials Facility (SPMF)
- Recommend incorporation littoral placement in 20-year Dredge Material Management Plan
- Recommend PA Addendum include Cleveland Harbor Eastern Resiliency Strategy (CHEERS) Early Action Habitat Loop Project

STAKEHOLDER NEXT STEPS

- Continue to coordinate / communicate with stakeholders regarding:
 - Short-term PA Addendum
 - Long-term 20-year Dredged Material Management Plan (DMMP)
- Continue to track dredge material alternatives including:
 - Cleveland Harbor Eastern Resiliency Strategy (CHEERS)
 - CHEERS Early Action Habitat Loop Project

The background features a repeating pattern of light gray icons representing various modes of transportation: a bicycle, a car with two passengers, a bus, and a pedestrian. A large, semi-transparent globe is centered behind the text.

2023 WQSP AND “ONE WATER” PHILOSOPHY

2023 WQSP AND “ONE WATER”

NOACA staff revisited NOACA’s 2023 Water Quality Strategic Plan (WQSP)

- 2023 Goal 4: Objectives & Strategies
 - Engage & provide Updates to wastewater DMAs
 - Maintain & Update NOACA’s Clean Water 2020 (208) Plan
 - Support Lake Erie Volunteer Science Network (LEVSN) and Cleveland Water Alliance
 - Manage, maintain and implement NOACA’s NetZero Cool green infrastructure project for stormwater management
 - Support the advancement of trees as natural stormwater management measures

2023 WQSP AND “ONE WATER”

Staff developed additional objectives & strategies to help further define Goal 4 & connect NOACA’s water quality work:

- Encourage integrated infrastructure management and strategic planning as part of NOACA’s areawide water quality management planning
- Develop communication strategies to help the public understand the value of all water = “One Water”
- Coordinate with “One Water” stakeholders to align messaging and outreach efforts
- Promote education campaigns to highlight the importance of water and associated essential services.
 - Support MS4 communities in Northeast Ohio by developing One Water messaging for inclusion in local Storm Water Management Programs

ADVANCING THE “ONE WATER” PHILOSOPHY

- Ohio EPA’s **MS4 General Permit** expires **March 31, 2026**
- The new permit cycle will require MS4 communities to conduct:
 - Public Education
 - Public Involvement
 - Pollution Prevention programs
- This renewal presents an opportunity to advance **Goal 4 of NOACA’s WQSP**
- NOACA staff propose using the MS4 requirements to promote “One Water” principles to MS4 communities by providing outreach tools and messaging resources.

ADVANCING THE “ONE WATER” PHILOSOPHY

In developing this approach NOACA staff met with regional partners:

- Fresh Water Institute
- Cleveland Water Alliance
- Northeast Ohio Public Involvement Public Education (NEOPIPE) Work Group
- Cuyahoga Soil and Water Conservation District
- Lake Erie West Council of Governments

ADVANCING THE “ONE WATER” PHILOSOPHY

- Based on feedback, staff are developing “One Water” Stormwater Management Resources
- The resources will include:
 - Best Management Practices for MS4 communities
 - Public Education and Public Involvement; Pollution Prevention and Good Housekeeping practices
 - Guidance tailored to specific TMDL pollutants
- MS4 communities will have additional resources, and NOACA can use the opportunity to advance the philosophy of “One Water” through the agency’s water planning work.



OVERALL WORK PROGRAM (OWP) EFFORTS

OVERALL WORK PROGRAM (OWP)

Support Water Quality Subcommittee (WQS) & provide quarterly updates

- Continue to participate in Black & Cuyahoga River Areas of Concern (AOCs): Advisory Committees

Black River AOC Advisory Committee

- Black River AOC Advisory Committee meeting (February 17, 2026)
 - One BUI remains:
 - Degradation of Benthos – sampling has been evaluated and a final removal packet will be compiled by July 2026
 - NPS-IS planning continues for three HUC12s
 - Black River, Lower West Branch & Jackson Ditch-East Branch
 - An online survey is still open for comments & project suggestions



OVERALL WORK PROGRAM (OWP)

Cuyahoga River AOC Advisory Committee

- Cuyahoga River AOC Advisory Committee meeting (January 12, 2026)
- Staff attended the new Advisory Committee training (February 2, 2026)
- Four BUIs remain:
 - Degradation of Fish and Wildlife Populations
 - Degradation of Benthos
 - Restrictions on Navigational Dredging
 - Loss of Fish Habitat
- Staff attended the 2026 Cuyahoga River AOC Symposium (March 12, 2026)



The poster features the Cuyahoga River AOC logo at the top, followed by the title '2026 SYMPOSIUM' and the tagline 'STORIES THAT FLOW'. The event date is 'MARCH | 12 | 2026' at the 'SLOVENIAN NATIONAL HOME' from '9:30 AM - 3:00 PM', followed by a happy hour at Goldhorn Brewery. A 'REGISTER TODAY!' call to action is prominently displayed. A note states that a continental breakfast and lunch will be provided for registered guests. The bottom of the poster lists several partner organizations: Davey Resource Group, Sea Grant, Cleveland Water Alliance, Interlake Maritime Services, and Cuyahoga Soil & Water Conservation District.

CUYAHOGA RIVER AOC

2026 SYMPOSIUM

STORIES THAT FLOW

MARCH | 12 | 2026

SLOVENIAN NATIONAL HOME

9:30 AM - 3:00 PM

FOLLOWED BY HAPPY HOUR AT GOLDHORN BREWERY

REGISTER TODAY!

A continental breakfast and lunch will be provided for all registered guests.

DAVEY Resource Group

Sea Grant

CLEVELAND WATER ALLIANCE

Interlake MARITIME SERVICES

CUYAHOGA SOIL & WATER conservation district



2026 SYMPOSIUM

STORIES THAT FLOW

Thursday, March 12, 2026 | 9:30 AM - 3:00 PM | Slovenian National Home

AGENDA

- 9:30am Registration & Networking**
- 10:00am Welcome & Opening Remarks**
Order for the Day – Kristin Hall Fitzgerald, Executive Director at Cuyahoga SWCD
Welcome – Brad Nosan, President at Slovenian National Home
Community Address – Britiny Hubbard, Manager of Community Engagement at SCSDC
Opening Remarks – Jennifer Grieser, Cuyahoga AOC Advisory Committee Chair
- 10:15am AOC Updates & Progress**
Hannah Boesinger – Northeast Areas of Concern Coordinator, OLEC
- 10:45am Akwesasne: From Toxic Turtle to Mohawk Cultural Revitalization**
Jessica Jock – Program Manager, St. Regis Mohawk Tribe/St. Lawrence AOC
- 11:45am Champion of the River Award** – Presented by Dr. Jordyn Stoll
Dr. Julie Wolin, Cleveland State University
- 12:00pm Lunch & Poster Session**
Featuring Exclusive Sale & Signing of “The Day the River Caught Fire”
- 1:00pm History of the Gorge Dam**
Dr. Megan Shaeffer – Supervisor of Cultural Resources, Summit Metro Parks
- 1:30pm “The Day the River Caught Fire” Panel** – Facilitated by Jennifer Grieser
Barry Wittenstein, Author & Jessie Hartland, Illustrator
- Local Highlight: East Side**
- 2:15pm**
Doan Brook – Emily Kao, Executive Director at Doan Brook Watershed Partnership
Euclid Creek – Kate Chapel, Watershed Coordinator at Cuyahoga SWCD
Project Clean Lake – Doug Lopata, Planning and Design Manager at NEORS
- 3:00pm Closing Remarks** – Kristin Hall Fitzgerald, Executive Director at Cuyahoga SWCD



STORIES THAT FLOW

Akwesasne: From Toxic Turtle to Mohawk Cultural Revitalization

JESSICA JOCK

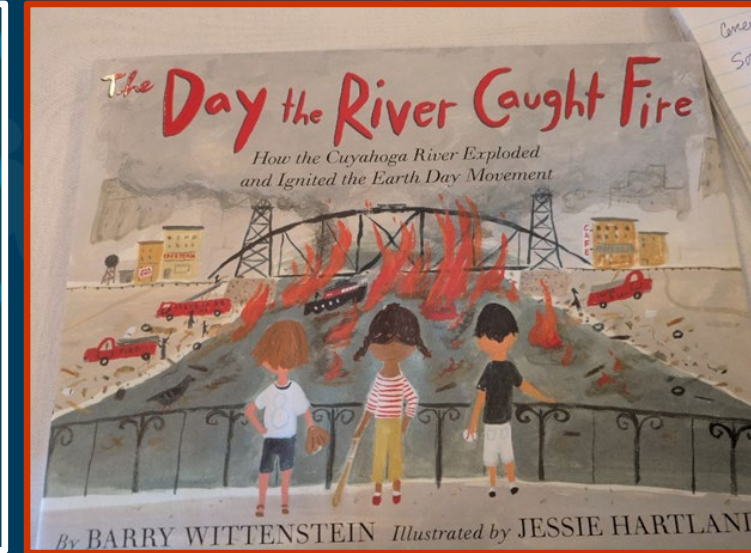
Program Manager

St. Lawrence River AOC / Saint Regis Mohawk Tribe



2026 CHAMPION OF THE RIVER!

DR. JULIE WOLIN
Associate Professor
Cleveland State University (BGES)



The background features a repeating pattern of light gray icons representing various modes of transportation: a bicycle, a car with two passengers, a bus, and a pedestrian. A large, semi-transparent globe is centered behind the text.

CLEAN WATER 2020 WORK

CLEAN WATER 2020 REFORMATTING

As result of the Cuyahoga, Geauga, and Medina County Five-Year FPA Boundary & Prescription Update efforts:

- Staff identified the need to review & update the FPA maps and DMA information in the Tables in Appendix 4B
- Staff worked with the largest DMA to review the Primary & Secondary DMAs and affected jurisdictions
- Staff used each treatment facility's NPDES permits to update the data in the tables

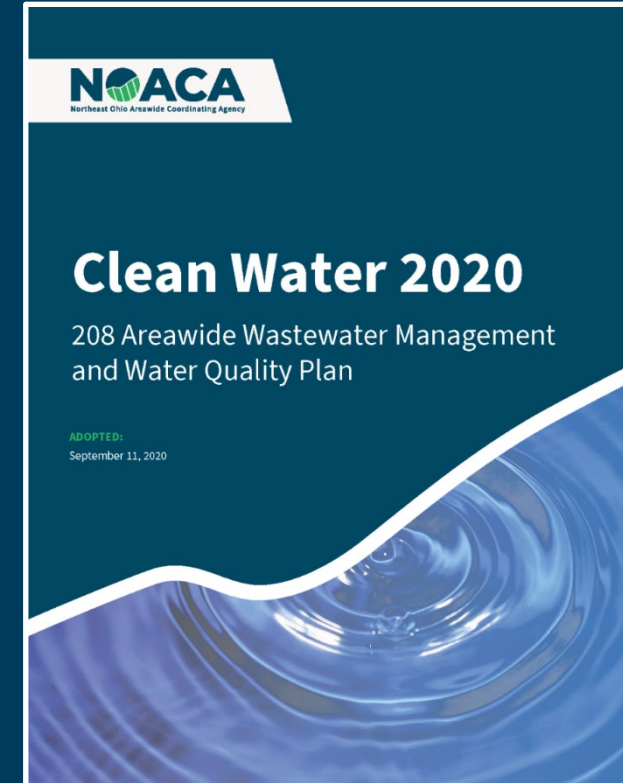


TABLE 4B-1: PRIMARY AND SECONDARY DESIGNATED MANAGEMENT AGENCIES (DMAS) FOR FACILITY PLANNING AREAS (FPAS) IN CUYAHOGA COUNTY

FPA	Primary DMA	Secondary DMA(s)	Jurisdiction(s) Within FPA (p) – Jurisdiction partially within the FPA	POTW (Average Design Flow)	Receiving Waterway
Bedford	City of Bedford	Cuyahoga County Oakwood Village Walton Hills Village	City: Bedford(p) Villages: Oakwood(p) and Walton Hills(p)	Bedford WWTP (3.20 MGD)	Hawthorne Wood Creek (Tinker's Creek)
Bedford Heights	City of Bedford Heights	Cuyahoga County, Glenwillow Village, Oakwood Village, Orange Village, City of Warrensville Heights	Cities: Bedford Heights and Warrensville Heights(p) Villages: Glenwillow(p), Oakwood(p), and Orange(p)	Bedford Heights WWTP ^{PW} (3.60 MGD)	Hawthorne Wood Creek (Tinker's Creek)
Chagrin Falls	Chagrin Falls Village	Bentleyville Village, Moreland Hills Village, South Russell Village	City: Chagrin Falls(p) Village: Moreland Hills(p)	Chagrin Falls Meadow Lane WWTP ^{PW} (1.00 MGD)	Chagrin River
Euclid	City of Euclid	Cuyahoga County, City of Richmond Heights, City of South Euclid	Cities: Euclid(p), Richmond Heights(p) and South Euclid(p)	Euclid WWTP ^{PW} (22.00 MGD)	Lake Erie
Geauga County	Geauga County	Chagrin Falls Village	City: Chagrin Falls(p)	Scarsdale WWTP (0.025 MGD)	Tributary to the Chagrin River
Lakewood	City of Lakewood	City of Rocky River	Cities: Lakewood and Rocky River(p)	Lakewood WWTP ^{PW} (18.00 MGD)	Lake Erie
Northeast Ohio Regional Sewer District (NEORS D) ¹ Combined				Southerly WWTC (175.00 MGD)	Cuyahoga River
	NEORS D	See Table 4B-2	See Table 4B-2	Easterly WWTP (155.00 MGD)	Lake Erie
				Westerly WWTC (35.00 MGD)	Lake Erie

Acronyms: MGD = Million Gallons per Day; POTW = Publicly Owned Treatment Works; WWTC = Wastewater Treatment Center; WWTP = Wastewater Treatment Plant; WWTW = Wastewater Treatment Works

¹ FPA extends beyond NOACA's region.

TABLE 4B-1: PRIMARY AND SECONDARY DESIGNATED MANAGEMENT AGENCIES (DMAS) FOR FACILITY PLANNING AREAS (FPAS) IN CUYAHOGA COUNTY (CONTINUED)

FPA	Primary DMA	Secondary DMA(s)	Jurisdiction(s) Within FPA (p) – Jurisdiction partially within the FPA	POTW (Average Design Flow)	Receiving Waterway
Medina County	Medina County	City of Broadview Heights, City of North Royalton, City of Strongsville	Cities: Broadview Heights(p), North Royalton(p) and Strongsville(p)	Liverpool WWT <u>WP</u> (15.00 MGD) Hinckley WWTW (3.25 MGD)	West Branch Rocky River <u>East Branch Rocky River</u>
North Olmsted	City of North Olmsted	Cuyahoga County, City of Fairview Park, City of North Olmsted	Cities: Fairview Park(p) and North Olmsted Townships: Olmsted(p)	North Olmsted WWTP (7.00 MGD)	Rocky River
North Royalton	City of North Royalton	Cuyahoga County, City of North Royalton, City of Parma, City of Strongsville	Cities: North Royalton(p), Parma(p) and Strongsville(p)	North Royalton "A" WWT <u>WP</u> (3.30 MGD) North Royalton "B" WWT <u>PW</u> (1.00 MGD)	Tributary to the East Branch Rocky River Tributary to Baldwin Creek
Rocky River	City of Rocky River	City of Bay Village, City of Fairview Park, City of Rocky River, City of Westlake	Cities: Bay Village, Fairview Park(p), Rocky River(p) and Westlake	Rocky River WWTP (22.50 MGD)	Lake Erie
Solon	City of Solon	Bentleyville Village, Moreland Hills Village, Orange Village	City: Solon(p) Villages: Bentleyville(p), Moreland Hills(p) and Orange(p)	Solon Water Reclamation <u>Facility</u> <u>WWTPW</u> (5.80 MGD)	Beaver Meadow Run (Tinker's Creek)
Strongsville	City of Strongsville	City of Middleburg Heights, City of North Royalton, City of Strongsville	Cities: Middleburg Heights(p), North Royalton(p) and Strongsville(p)	Strongsville "B" WWT <u>PW</u> (2.10 MGD) Strongsville "C" WWTP (1.80 MGD)	East Branch Rocky <u>River</u> <u>River</u> -Baldwin Creek

Acronyms: MGD = Million Gallons per Day; POTW = Publicly Owned Treatment Works; WWTC = Wastewater Treatment Center; WWTP = Wastewater Treatment Plant; WWTW = Wastewater Treatment Works

TABLE 4B-1: PRIMARY AND SECONDARY DESIGNATED MANAGEMENT AGENCIES (DMAS) FOR FACILITY PLANNING AREAS (FPAS) IN CUYAHOGA COUNTY (CONTINUED)

FPA	Primary DMA	Secondary DMA(s)	Jurisdiction(s) Within FPA (p) – Jurisdiction partially within the FPA	POTW (Average Design Flow)	Receiving Waterway
Medina County	Medina County	City of Broadview Heights, City of North Royalton, City of Strongsville	Cities: Broadview Heights(p), North Royalton(p) and Strongsville(p)	Liverpool WWT <u>WP</u> (15.00 MGD) Hinckley WWTW (3.25 MGD)	West Branch Rocky River <u>East Branch Rocky River</u>
North Olmsted	City of North Olmsted	Cuyahoga County, City of Fairview Park, City of North Olmsted	Cities: Fairview Park(p) and North Olmsted Townships: Olmsted(p)	North Olmsted WWTP (7.00 MGD)	Rocky River
North Royalton	City of North Royalton	Cuyahoga County, City of North Royalton, City of Parma, City of Strongsville	Cities: North Royalton(p), Parma(p) and Strongsville(p)	North Royalton "A" WWT <u>WP</u> (3.30 MGD) North Royalton "B" WWT <u>PW</u> (1.00 MGD)	Tributary to the East Branch Rocky River Tributary to Baldwin Creek
Rocky River	City of Rocky River	City of Bay Village, City of Fairview Park, City of Rocky River, City of Westlake	Cities: Bay Village, Fairview Park(p), Rocky River(p) and Westlake	Rocky River WWTP (22.50 MGD)	Lake Erie
Solon	City of Solon	Bentleyville Village, Moreland Hills Village, Orange Village	City: Solon(p) Villages: Bentleyville(p), Moreland Hills(p) and Orange(p)	Solon Water Reclamation <u>Facility</u> <u>WWTPW</u> (5.80 MGD)	Beaver Meadow Run (Tinker's Creek)
Strongsville	City of Strongsville	City of Middleburg Heights, City of North Royalton, City of Strongsville	Cities: Middleburg Heights(p), North Royalton(p) and Strongsville(p)	Strongsville "B" WWT <u>PW</u> (2.10 MGD) Strongsville "C" WWTP (1.80 MGD)	East Branch Rocky <u>River</u> <u>River</u> -Baldwin Creek

Acronyms: MGD = Million Gallons per Day; POTW = Publicly Owned Treatment Works; WWTC = Wastewater Treatment Center; WWTP = Wastewater Treatment Plant; WWTW = Wastewater Treatment Works

TABLE 4B-2: PRIMARY AND SECONDARY DESIGNATED MANAGEMENT AGENCIES (DMAS) FOR NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORS) FACILITY PLANNING AREAS (FPAs) IN CUYAHOGA COUNTY

FPA	Primary DMA	Secondary DMA(s)	Jurisdiction(s) Within FPA (p) – Jurisdiction partially within the FPA
Big Creek	<u>NEORS</u>	<u>Cuyahoga County</u> , Brooklyn, Brooklyn Heights, <u>Cuyahoga County</u> , Cuyahoga Heights, Cleveland, Linndale	Cities: Brooklyn(p) and Cleveland(p) Villages: Brooklyn Heights(p), Cuyahoga Heights(p) and <u>Linndale</u>
Cuyahoga Valley Interceptor (CVI) ²	<u>NEORS</u>	<u>Cuyahoga County</u> , Bedford, Brecksville, Broadview Heights, Brooklyn Heights, <u>Cuyahoga County</u> , Cuyahoga Heights, Garfield Heights, Independence, Maple Heights, Oakwood, Seven Hills, Valley View, Walton Hills	Cities: Bedford(p), Brecksville, Broadview Heights(p), Garfield Heights(p), Independence(p), Maple Heights(p) and Seven Hills(p) Villages: Brooklyn Heights(p), Cuyahoga Heights(p), <u>Glenwillow(p)</u> , Oakwood(p), Valley View(p) and Walton Hills(p)
Easterly	<u>NEORS</u>	<u>Cuyahoga County</u> , <u>Bratenahl</u> , Cleveland, Cleveland Heights, <u>Cuyahoga County</u> , East Cleveland, Euclid, Shaker Heights	Cities: Cleveland(p), Cleveland Heights(p), East Cleveland, Euclid(p) and Shaker Heights(p) Village: <u>Bratenahl</u>
Heights Hilltop	<u>NEORS</u>	<u>Cuyahoga County</u> , Beachwood, Cleveland, Cleveland Heights, <u>Cuyahoga County</u> , East Cleveland, Gates Mills, Highland Heights, Lyndhurst, Mayfield, Mayfield Heights, Pepper Pike, Richmond Heights, Shaker Heights, South Euclid, University Heights	Cities: Beachwood(p), Cleveland(p), Cleveland Heights(p), East Cleveland(p), Highland Heights, Lyndhurst, Mayfield Heights, Pepper Pike(p), Richmond Heights(p), Shaker Heights(p), South Euclid(p) and University Heights Villages: Gates Mills(p) and Mayfield
Mill Creek	<u>NEORS</u>	<u>Cuyahoga County</u> , Beachwood, Bedford Heights, Cleveland, <u>Cuyahoga County</u> , Cuyahoga Heights, Garfield Heights, Highland Hills, Independence, Maple Heights, North Randall, Orange, Shaker Heights, Solon, Valley View, Warrensville Heights	Cities: Beachwood(p), Bedford Heights(p), Cleveland(p), Garfield Heights(p), Independence(p), Maple Heights(p), Shaker Heights, Solon(p) and Warrensville Heights(p) Villages: Cuyahoga Heights(p), Highland Hills, North Randall, Orange(p) and Valley View(p)

² FPA extends beyond NOACA's region.

TABLE 4B-2: PRIMARY AND SECONDARY DESIGNATED MANAGEMENT AGENCIES (DMAS) FOR NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORS D) FACILITY PLANNING AREAS (FPAS) IN CUYAHOGA COUNTY (CONTINUED)

FPA	Primary DMA	Secondary DMA(s)	Jurisdiction(s) Within FPA (p) – Jurisdiction partially within the FPA
Southerly	<u>NEORS D</u>	<u>Cuyahoga County</u> , Cleveland, Cuyahoga County, <u>Cuyahoga Heights</u> , Newburgh Heights, Shaker Heights	Cities: Cleveland and Shaker Heights(p) Villages: Cuyahoga Heights(p) and Newburgh Heights
Southwest	<u>NEORS D</u>	<u>Cuyahoga County</u> , Berea, Broadview Heights, Brook Park, Brooklyn, Brooklyn Heights, Cleveland, <u>Cuyahoga County</u> , Fairview Park, Middleburg Heights, North Royalton, Olmsted Falls, Parma, Parma Heights, Seven Hills, Strongsville	Cities: Berea, Broadview Heights, Brook Park, Brooklyn, Cleveland(p), Fairview Park(p), Middleburg Heights(p), North Royalton(p), Olmsted Falls, Parma(p), Parma Heights, Seven Hills(p) and Strongsville(p) Village: Brooklyn Heights(p) Township: Olmsted(p)
Westerly	<u>NEORS D</u>	Brooklyn, Cleveland, Lakewood	Cities: Brooklyn(p), Cleveland(p) and Lakewood(p)

TABLE 4B-3: PRIMARY AND SECONDARY DESIGNATED MANAGEMENT AGENCIES (DMAS) FOR FACILITY PLANNING AREAS (FPAS) IN GEAUGA COUNTY

FPA	Primary DMA	Secondary DMA(s)	Jurisdiction(s) Within FPA (p) – Jurisdiction partially within the FPA	POTW (Average Design Flow)	Receiving Waterway
Aurora ⁴	City of Aurora	Geauga County	Township: Bainbridge(p)	Aurora Central WWTP PW (1.50 MGD)	Aurora Branch of the Chagrin River
Burton	Burton Village	None	Village: Burton	Burton WWTP PW (0.4027 MGD)	East Branch of the Cuyahoga River
Chagrin Falls	Chagrin Falls Village	Geauga County, South Russell Village	Village: South Russell(p) Townships: Bainbridge(p) and Russell(p)	Chagrin Falls Meadow Lane WWTP PW (1.00 MGD)	Chagrin River
Chardon	City of Chardon	None	City: Chardon	Chardon WWTP PW (1.8408 MGD)	Big Creek
Geauga County	Geauga County	Hunting Valley Village, South Russell Village	Villages: Hunting Valley(p) and South Russell(p) Townships: Auburn, Bainbridge(p), Burton, Chardon, Chester, Claridon, Hambden, Huntsburg, Middlefield(p), Montville, Munson, Newbury, Parkman, Russell(p), Thompson and Troy	McFarland Creek WWTP (1.80 MGD) 244 Communal Systems (1.44 MGD)	Aurora Branch of the Chagrin River Various
Middlefield	Middlefield Village	Geauga County	Village: Middlefield Township: Middlefield(p)	Middlefield WWTP PW (1.00 MGD)	Tributary to <u>East Branch of Cuyahoga River</u> Tare Creek
Solon	City of Solon	Geauga County	Township: Bainbridge(p)	Solon Water Reclamation WWTP Facility (5.80 MGD)	Beaver <u>Meadow</u> Run (Tinker's Creek)

Acronyms: MGD = Million Gallons per Day; POTW = Publicly Owned Treatment Works; WPCP = Water Pollution Control Plant; WWTP = Wastewater Treatment Plant; WWTW = Wastewater Treatment Works

⁴ FPA extends beyond NOACA's region.

TABLE 4B-3A: GEAUGA COUNTY COMMUNAL WASTEWATER TREATMENT FACILITIES

FPA	Communal System Name	Average Design Flow	Receiving Waterway
Geauga County FPA	Geauga County Aquilla Village WWTP	0.07 MGD	Tributary to West Branch Cuyahoga River
	Geauga County Auburn Corners WWTP	0.149 MGD	Tributary to LaDue Reservoir
	Geauga County Belle Vernon WWTP	0.04 MGD	Tributary to Chagrin River
	Geauga County Berkshire Heights WWTP	0.049 MGD	East Branch of the Chagrin River
	Geauga County Berkshire Industrial Park WWTP	0.02 MGD	Tributary to East Branch Cuyahoga River
	Geauga County Bridge Lake Farm WWTP	0.0034 MGD	Spangler Creek, Swine Creek
	Geauga County Broadwood Hills WWTP	0.0275 MGD	Diedrich Creek
	Geauga County Burton Lakes WWTP	0.05 MGD	Tributary to Bridge Creek
	Geauga County Infirmery Creek WWTP	0.149 MGD	Tributary to Cuyahoga River
	Geauga County Kimberly Estates WWTP	0.046 MGD	Tributary to Chagrin River
	Geauga County Newbury Center WWTP	0.03 MGD	Tributary to Chagrin River
	Geauga County Opalocka WWTP	0.16 MGD	Marsh Hawk Run
	Geauga County Parkman WWTP	0.149 MGD	Grand River
	Geauga County Plymouth Acres WWTP	0.01 MGD	West Branch of the Cuyahoga River
	Geauga County Russell Park WWTP	0.08 MGD	Chagrin River
	Geauga County Scarsdale WWTP	0.0025 MGD	Unnamed Tributary of the Chagrin River
	Geauga County Scranton Woods WWTP	0.014 MGD	Unnamed Tributary to Dewdale Creek
	Geauga County Surrey Downs WWTP	0.01 MGD	Silver Creek
	Geauga County Thompson WWTP	0.04 MGD	Unnamed Tributary to Talcott Creek
	Geauga County Valley View WWTP	0.2 MGD	Unnamed Tributary to Griswold Creek
	Geauga County Wenhaven WWTP	0.0072 MGD	Unnamed Tributary of the Chagrin River
	Geauga County Willow Hills WWTP	0.0125 MGD	Caves Creek
Geauga County Wintergreen WWTP	0.015 MGD	Unnamed Tributary to Big Creek	
Metzenbaum Center WWTW	0.020 MGD	Unnamed Tributary to Griswold Creek	

TABLE 4B-5: PRIMARY AND SECONDARY DESIGNATED MANAGEMENT AGENCIES (DMAS) FOR FACILITY PLANNING AREAS (FPAs) IN LORAIN COUNTY

FPA	Primary DMA	Secondary DMA(s)	Jurisdiction(s) Within FPA (p) – Jurisdiction partially within the FPA	POTW (Average Design Flow)	Receiving Waterway
Amherst	City of Amherst	Lorain County	Cities: Amherst Townships: Amherst(p)	Amherst WPCC (3.50 MGD)	Beaver Creek
Avon Lake	City of Avon Lake	Avon	Cities: Avon(p) and Avon Lake	Avon Lake WPCC (6.50 MGD)	Lake Erie
Avon Lake – LORCO ¹ Phase I	City of Avon Lake	LORCO, Lorain County; Columbia Township	Townships: Carlisle(p), Columbia(p) and Eaton(p)	Avon Lake WPCC (6.50 MGD)	Lake Erie
Elyria	City of Elyria Lorain County – Communal Systems	Lorain County, City of North Ridgeville	Cities: Avon(p), North Ridgeville(p) Villages: Sheffield Townships:	Elyria WWPCPTW (13.00 MGD) 2 Lorain County Communal Systems (0.20 MGD)	Black River, East Branch and West Branch East Branch Black River & Martin Run
French Creek	City of North Ridgeville	Lorain County, City of Avon, Sheffield Village	Cities: Avon(p), North Ridgeville(p) Villages: Sheffield(p) Township: Eaton(p)	French Creek WWTW (11.25 MGD)	French Creek
Grafton	Grafton Lorain County-Communal System	LORCO Lorain County	Villages: Grafton Townships: Carlisle(p), Eaton(p) and Grafton(p)	Grafton WWTPW (1.50 MGD) Lorain County Communal System (0.20 MGD)	East Branch Black River Willow Creek
LaGrange	LaGrange Village	Lorain County	Village: LaGrange Township: LaGrange	LaGrange WPCP (0.36 MGD)	Kellner Ditch

Acronyms: MGD = Million Gallons per Day; NEORSDD = Northeast Ohio Regional Sewer District; POTW = Publicly Owned Treatment Works; PQM = Philip Q Maiorana; WEPF = Water Environment Protection Facility; WPCC = Water Pollution Control Center; WPCP = Water Pollution Control Plant; WWTC = Wastewater Treatment Center; WWTW = Wastewater Treatment Works; POTW = Publicly Owned Treatment Works

¹ Lorain County Rural Wastewater Authority (LORCO)

TABLE 4B-5: PRIMARY AND SECONDARY DESIGNATED MANAGEMENT AGENCIES (DMAS) FOR FACILITY PLANNING AREAS (FPAS) IN LORAIN COUNTY (CONTINUED)

FPA	Primary DMA	Secondary DMA(s)	Jurisdiction(s) Within FPA (p) – Jurisdiction partially within the FPA	POTW (Average Design Flow)	Receiving Waterway
Lorain	City of Lorain	Lorain County, City of Sheffield Lake, Sheffield Village, South Amherst Village	Cities: Lorain, Sheffield Lake Villages: South Amherst, Sheffield(p) Townships: Amherst(p), Brownhelm(p), Elyria(p), Henrietta(p), New Russia(p) and Sheffield	Lorain Black River WWTP ⁵ (15.00 MGD) Lorain PQM WWTP (5.40 MGD)	Black River Lake Erie
Lorain County	Lorain County	None	Townships: Brighton, Brownhelm(p), Columbia(p) and Penfield Villages: Kipton and Rochester	Lorain County Communal System (0.04 MGD)	Plum Creek
Lorain County & LORCO	Lorain County LORCO	Kipton Village, Rochester Village	Townships: Camden, Carlisle(p), Eaton(p), Grafton(p), Henrietta(p), Huntington, LaGrange(p), New Russia(p), Pittsfield(p), Rochester, and Wellington(p)	No POTWs	None
NEORS – Southwest	NEORS	Lorain County	Township: Columbia	Southerly WWTC (175.00 MGD)	Cuyahoga River
Oberlin	Oberlin	Lorain County	City: Oberlin Townships: New Russia(p) and Pittsfield(p)	Oberlin WEPF (1.50 MGD)	Plum Creek (West Branch Black River)
Vermilion ⁵	Vermilion	Lorain County	City: Vermilion Township: Brownhelm(p)	Vermilion WWTW (2.50 MGD)	Vermilion River
Wellington	Wellington	Lorain County	Village: Wellington Township: Wellington	Wellington WWTP (0.75 MGD)	East Fork (Charlemone Creek)

Acronyms: MGD = Million Gallons per Day; NEORS = Northeast Ohio Regional Sewer District; POTW = Publicly Owned Treatment Works; PQM = Philip Q Maiorana; WEPF = Water Environment Protection Facility; WPCC = Water Pollution Control Center; WPCP = Water Pollution Control Plant; WWTC = Wastewater Treatment Center; WWTW = Wastewater Treatment Works; POTW = Publicly Owned Treatment Works

⁵ FPA extends beyond NOACA's region.

TABLE 4B-5A: LORAIN COUNTY COMMUNAL WASTEWATER TREATMENT FACILITIES

FPA	Communal System Name	Average Design Flow	Receiving Waterway
Avon Lake/LORCO Phase I FPA	Eaton Homes WWTP	0.200 MGD	Willow Creek
Elyria FPA	Brentwood Lake WWTP	0.120 MGD	Alexander Creek to East Branch Black River
	Cresthaven Homes WWTP	0.08 MGD	Martin River
Lorain County FPA	Plum Creek WWTP	0.04 MGD	Plum Creek

TABLE 4B-6: PRIMARY AND SECONDARY DESIGNATED MANAGEMENT AGENCIES (DMAS) FOR FACILITY PLANNING AREAS (FPAS) IN MEDINA COUNTY

FPA	Primary DMA	Secondary DMA(s)	Jurisdiction(s) Within FPA (p) – Jurisdiction partially within the FPA	POTW (Average Design Flow)	Receiving Waterway
Creston ⁶	Creston Village	None	Village: Creston	Creston WWTP ^W (0.30 MGD)	Creston Ditch (Killbuck Creek)
Lodi	Lodi Village	Medina County	Village: Lodi Township: Harrisville(p)	Lodi WWTP (0.80 MGD)	East Branch of Black River
Medina County ⁶	Medina County	City of Broadview Heights, City of Medina, City of North Royalton, City of Strongsville, City of Wadsworth, Summit County	Cities: Broadview Heights, Brunswick, Medina, North Royalton, Strongsville, Wadsworth(p) Villages: Chippewa Lake, Gloria Glens Park Townships: Brunswick Hills, Chatham, Granger, Guilford(p), Litchfield, Harrisville(p), Hinckley, Homer, Lafayette, Liverpool, Medina, Montville, Sharon(p), Spencer, Wadsworth, Westfield(p), York, Richfield (Summit County)	Liverpool WWTP ^W (15.00 MGD) Hinckley WWTP ^W (3.25 MGD) Chippewa Lake WWTP (0.874 MGD) Two Medina County Communal Systems <u>SD #9 WWTW s. (0.0120 MGD)</u> <u>SD #11 WWTW (0.0125 MGD)</u>	West Branch Rocky River East Branch Rocky River <u>ChippewaBuck Creek</u> <u>Unnamed tributaries to East Branch Rocky River-& Unnamed tributaries to Granger Ditch</u>
Rittman ⁶	City of Rittman	Medina County	City: Rittman Townships: Guilford(p) and Wadsworth(p)	Rittman WWTW WWTP (1.60 MGD)	River Styx
Seville	Seville Village	Medina County	Village: Seville Township: Guilford(p)	Seville WWTP ^W (0.50 MGD)	Chippewa Creek
Spencer	Spencer Village	None	Village: Spencer	Spencer WWTW (0.09 MGD)	Spencer Creek (East Branch of the Black River)
Wadsworth	City of Wadsworth	Medina County	City: Wadsworth Townships: Sharon(p), Wadsworth(p)	Wadsworth Regional WWTW (5.00 MGD)	River Styx
Westfield Center	Westfield Center Village	None	Village: Westfield Center	Westfield WWTP (0.635 MGD)	Camel Creek

Acronyms: MGD = Million Gallons per Day; POTW = Publicly Owned Treatment Works; WRE = Water Reclamation Facility; WWTP = Wastewater Treatment Plant; WWTW = Wastewater Treatment Works

⁶ FPA extends beyond NOACA's region

CLEAN WATER 2020 WORK

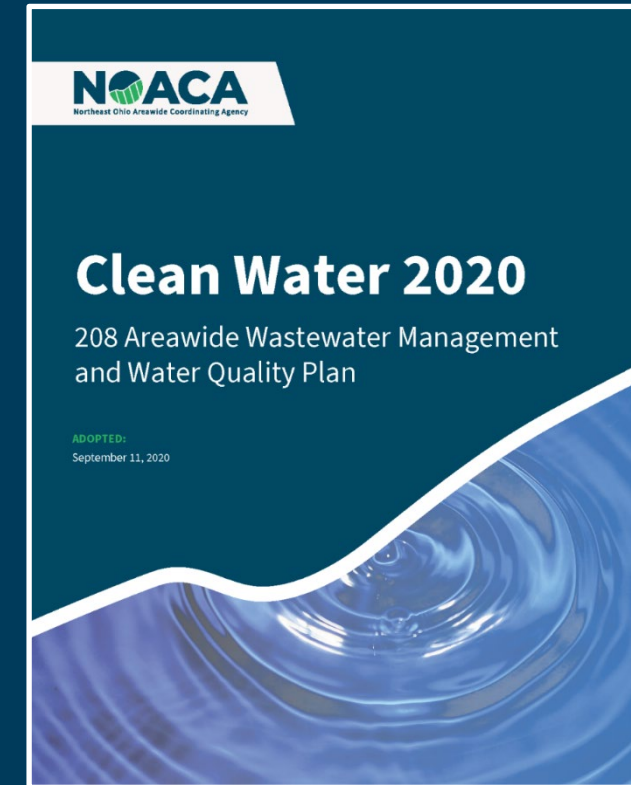
Clean Water 2020 reformatting – Tracking Versions

Clean Water 2020: 208 Areawide Wastewater Management and Water Quality Plan

Revision Summary History

Version	Date	Summation of Changes	Comments
Version 1	September 11, 2020; Board of Directors Adoption	Original version; formatted in the InDesign program using a two-page landscape layout.	WQP staff determined that maintaining and updating the plan using InDesign was not efficient and a two page layout was not user-friendly

Version	Date	Summation of Changes	Comments
Version 2	June 2025; Water Quality Planning (WQP) Staff update	Document reformatted in Word, using a one-page portrait layout. Document was also reformatted using NOACA's new branding style with color changes.	WQP staff made every effort to reformat the plan using a 1:1 page ratio (with a few exceptions)



CLEAN WATER 2020 WORK

Clean Water 2020 reformatting – Tracking Versions



Version	Date	Summation of Changes	Comments
Version 3	Fall 2025 – March 2026; Water Quality Planning (WQP) Staff update	<p>As determined by the adoption of Chapter 3A: 208 Plan Content Maintained by NOACA Staff, the following have been updated:</p> <p>Chapter 2: State of the Region text associated with the updates to the following tables and figures: Table 2-1: Northeast Ohio Population Trends and Projections Table 2-2: Northeast Ohio Household Trends and Projections Table 2-3: Northeast Ohio Employment Trends and Projections Table 2-4: Northeast Ohio Changes in Land Cover (2001–2021) Table 2-5: Northeast Ohio Changes in Land Cover Categories (2001-2021) Figure 2-1: Northeast Ohio Subwatershed Projected Population Percent Changes (2020-2050) Figure 2-2: Northeast Ohio Census Tract Population Projections Percent Changes (2020-2050)</p>	<p>The edits to Chapter 2 reflect the results of the 2020 Census and NOACA's updated TELUM model forecasts, updates in the <u>MRLC NLCD</u> for 2001, and new data for 2021 and NOACA's land cover analyses.</p>

		<p>Figure 2-3: Northeast Ohio Subwatershed Household Projections (2020-2050) Figure 2-4: Northeast Ohio Subwatershed Employment Projections (2020-2050) Figure 2-5: Northeast Ohio Land Cover (2001) Figure 2-7: Northeast Ohio Land Cover (2001)</p> <p><u>Chapter 6: Managing Stormwater Runoff and Nonpoint Source Pollution</u></p> <p>Figure 6-1: Northeast Ohio Land Cover (2021) Figure 6-2: Impervious Surfaces (2021) Figure 6-3: Ohio Environmental Protection Agency (Ohio EPA) Phase II Stormwater Regulated "Urbanized Areas" in Northeast Ohio</p> <p><u>Appendix 4B: Facility Planning Areas (FPAs), Prescriptions and Designated Management Agencies (DMAs) by NOACA County</u></p>	<p>The edits to Chapter 6 also reflect updates <u>MS4</u> Urban Areas as determined by the 2020 Census and the revised by USEPA/Ohio EPA.</p> <p><u>WQP</u> staff identified various edits, updates and revision during the Cuyahoga, Geauga and Medina County Five-Year Updates that warrant staff ability to update the maps/tables in Appendix <u>4B</u>.</p>
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CLEAN WATER 2020 WORK

FPA Consistency Reviews & Maps to date (FY)

- Ensured projects are consistent with FPA maps
- Prepared 28 consistency review maps
- Reviewed 105 permits-to-install (PTIs)

FINANCIAL IMPACTS

Ohio EPA contracts and NOACA's local water quality dues fund this work.

NEXT STEPS

NOACA staff will provide quarterly updates on the Water Quality Planning Program to the Water Quality Subcommittee.



NOACA

Northeast Ohio Areawide Coordinating Agency

NOACA will **strengthen** regional cohesion, **preserve** existing infrastructure, and **build** a sustainable multimodal transportation system to **support** economic development and **enhance** quality of life in Northeast Ohio.