



**Northeast Ohio  
Regional Sewer District**



# Thanks for joining!

WE WILL START MOMENTARILY.



**Northeast Ohio  
Regional Sewer District**





# Watershed Advisory Committee

CUYAHOGA RIVER SOUTH- MARCH 21, 2023



**Northeast Ohio  
Regional Sewer District**





# Agenda

- Welcome, Introduction & Updates
- Stormwater Inspection and Maintenance Update
- Watershed Technical Support Update
- Design & Construction Update
- Sages and Plan Review
- Code Updates
- Infrastructure Funding







# Program Highlights

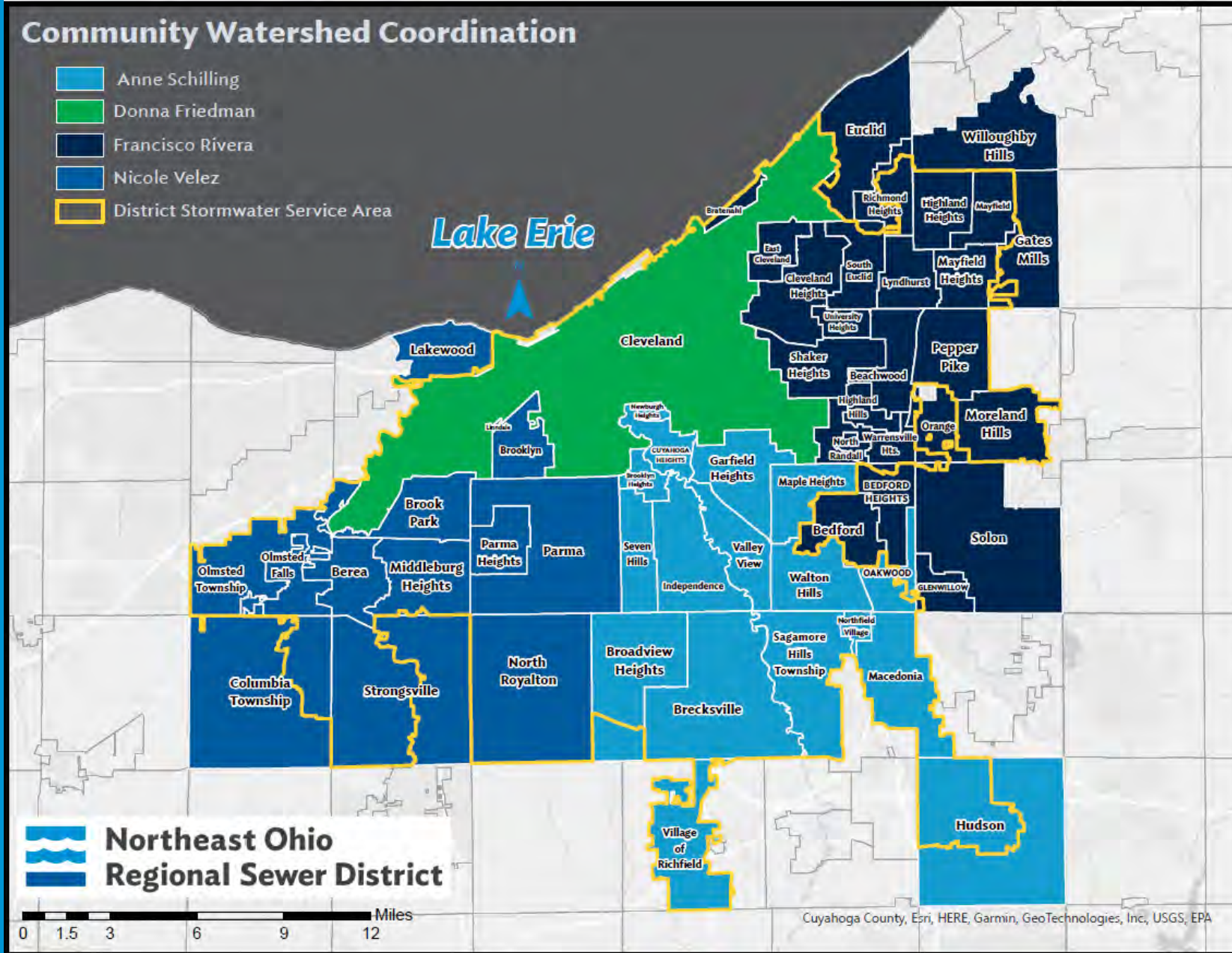
Frank Greenland, Director of Watershed Programs

Matt Scharver, Deputy Director of Watershed Programs



# Community Watershed Coordination

- Anne Schilling
- Donna Friedman
- Francisco Rivera
- Nicole Velez
- District Stormwater Service Area





# Community Cost-Share

• CCS Funds Balance (2/28/2023)	\$37,810,420.18
• 96 projects w/ executed agreement	\$8,898,841.29
• 48 projects w/ agreements in progress	\$7,309,864.35
• <b>CCS Funds available to Member Communities</b>	<b>\$21,601,714.54</b>
• 29 approved allocation agreements	\$8,142,696.46





# Community Cost-Share: 2016-2023 Reimbursement

Year	CCS Funds Reimbursed
2016	\$ 35,166.00
2017	\$ 2,626,418.00
2018	\$ 4,218,308.00
2019	\$ 9,178,445.00
2020	\$ 6,720,943.00
2021	\$ 9,581,404.00
2022	\$ 6,806,797.89
2023 (2/28/2023)	\$ 575,596.22
Total Reimbursed	\$ 39,743,078.11



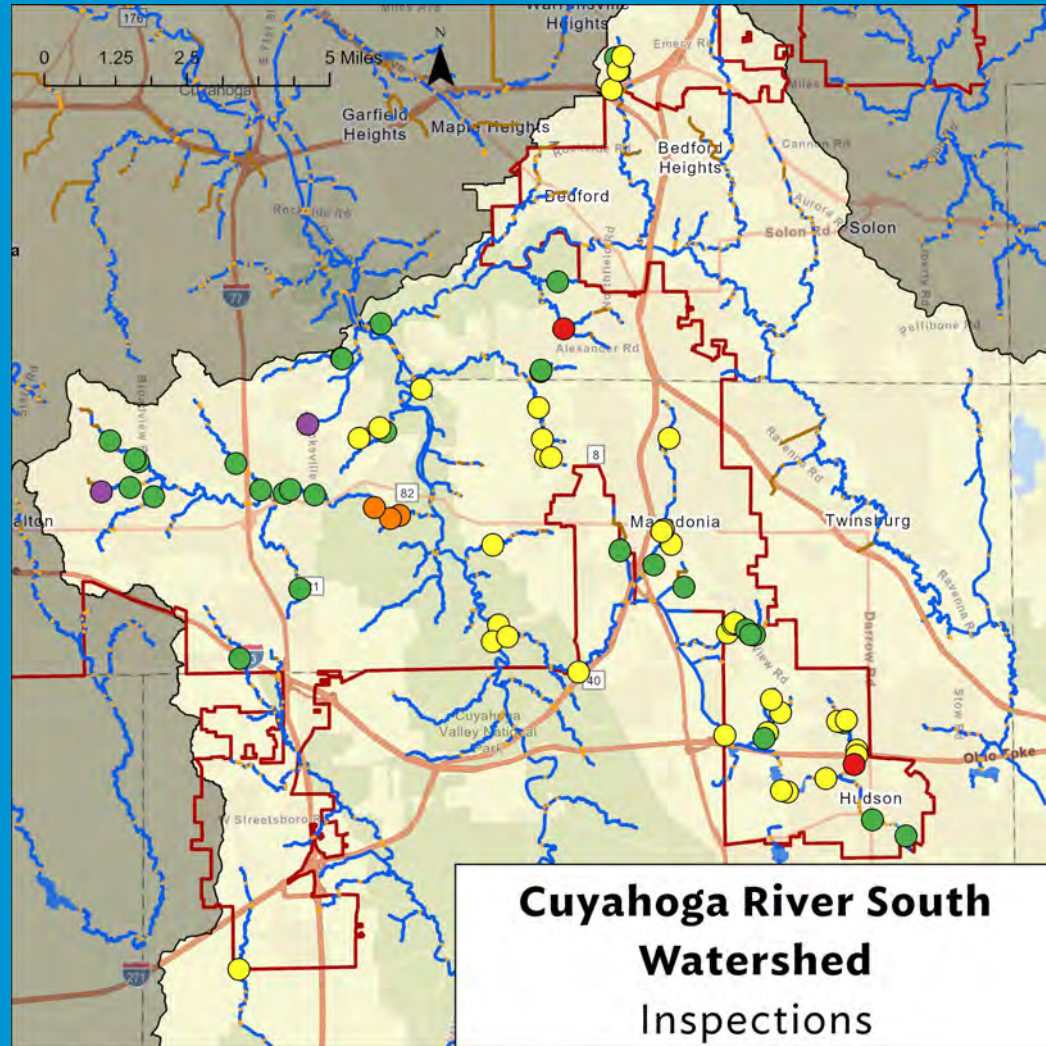


# Inspection & Maintenance Update

CUYAHOGA RIVER SOUTH SUBWATERSHED

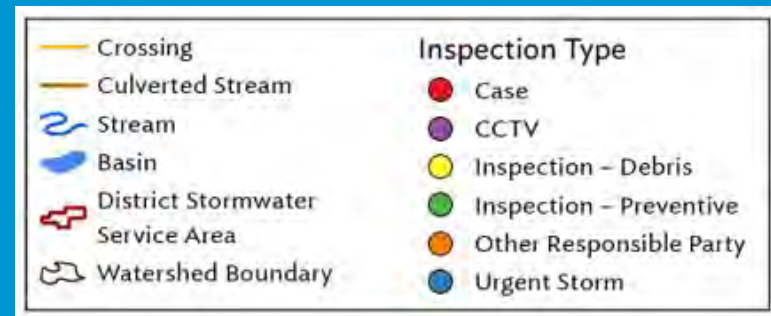


# SWIM Inspections



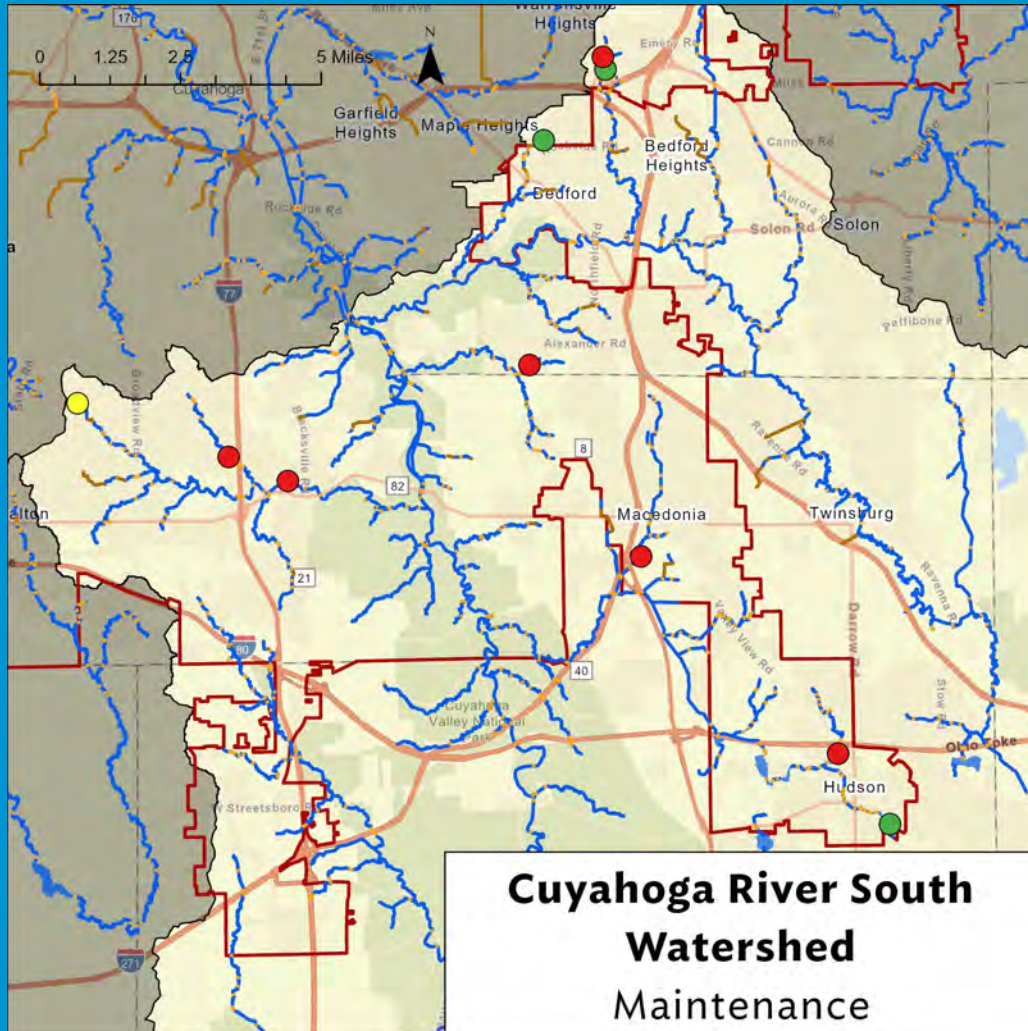
## 10/22 - 2/23 Completed Inspections

Inspection Type	Inspection Count
Case	2
CCTV	2
Inspection - Debris	38
Inspection - Preventive	34
Other Responsible Party	3
Urgent Storm	0
<b>Total</b>	<b>79</b>





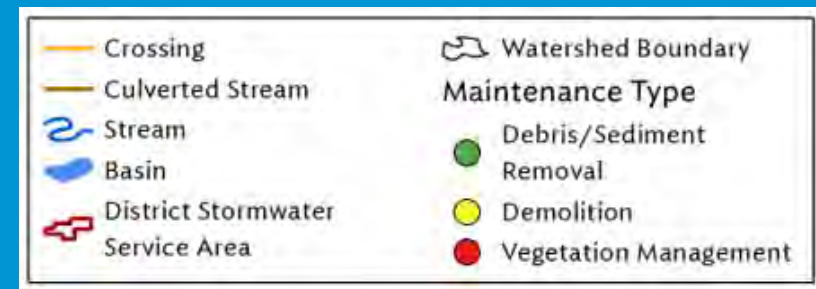
# SWIM Maintenance



## 10/22 - 2/23 Maintenance Projects

Project Type	Project Count
Debris/Sediment Removal	4
Demolition	1
Vegetation Mangement	7
<b>Total</b>	<b>12</b>

Debris Removed	Sediment Removed
9 CY	0 CY





# CRN & CRS Spherical Imagery Update

- Current CRN/CRS spherical imagery is from 2017/18
- 360° imagery of Regional Stormwater System
- 196 miles open stream to be captured
- RFP May 2023
- NTP October 2023



CRN Watershed Spherical Imagery Points



360° Camera



360° Imagery



# Hemlock Creek Bank Stabilization at Linda Lane

- Rock toe installation on left bank
- Gabion baskets removed from right bank





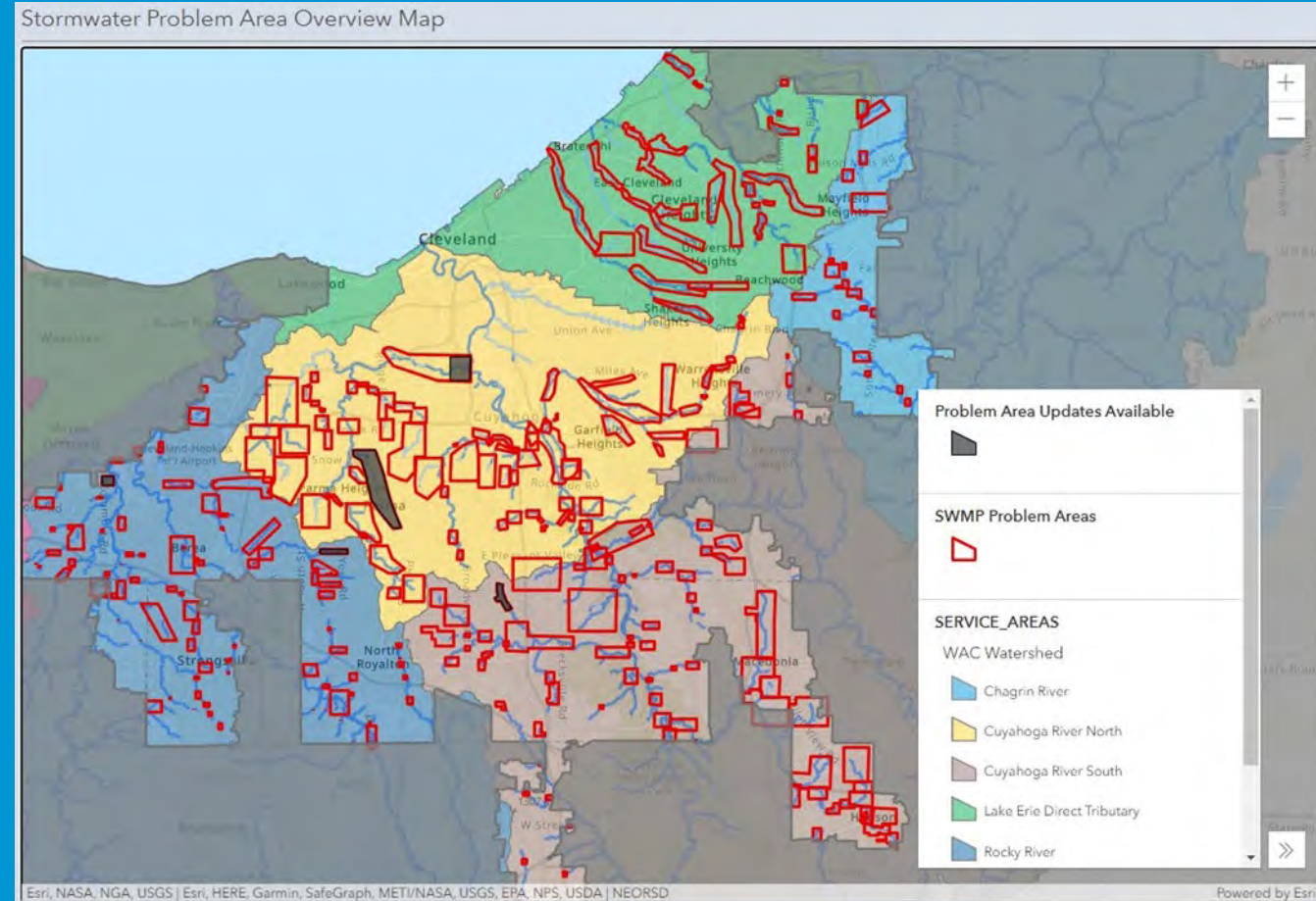


# Watershed Technical Support



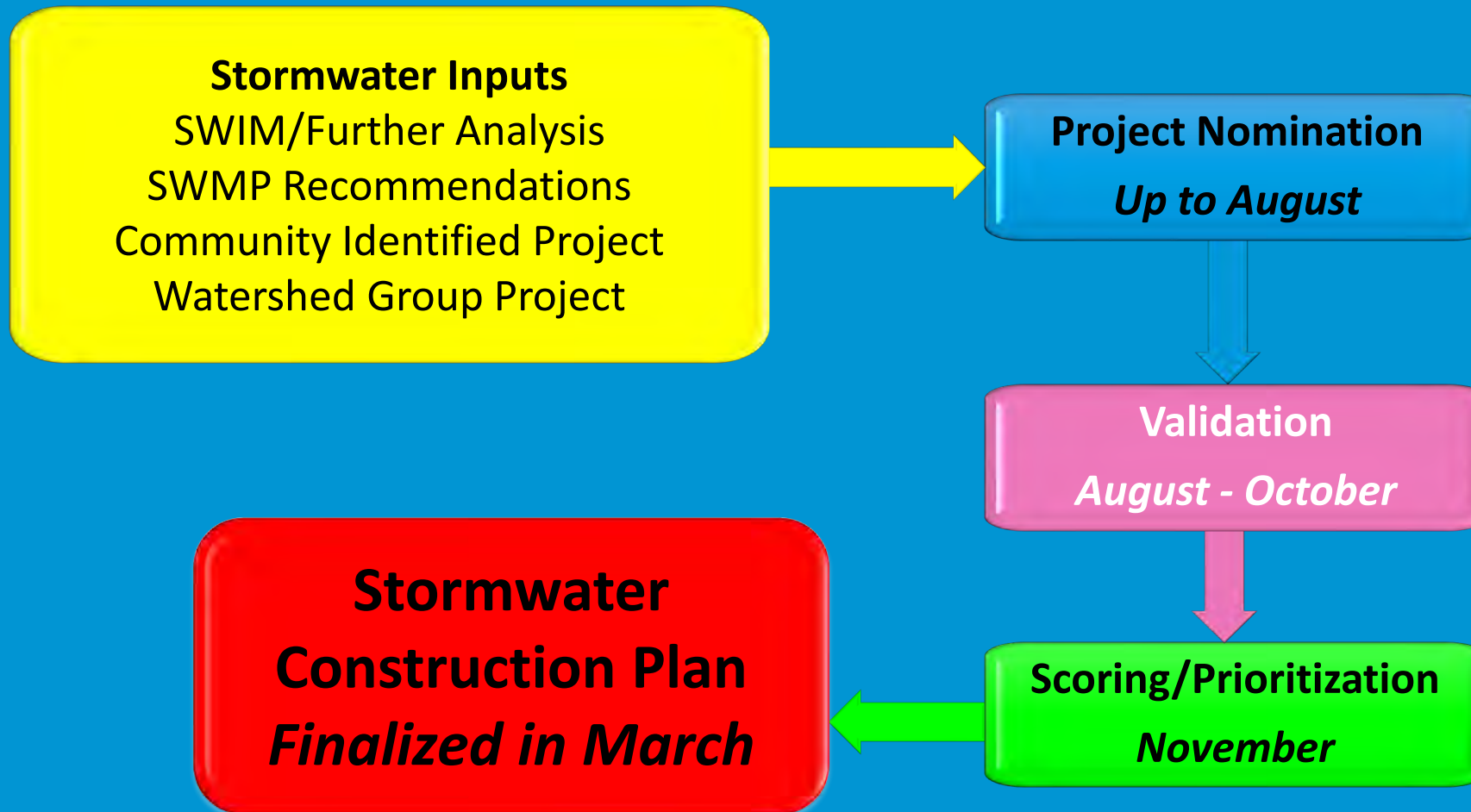
# Cuyahoga River South Stormwater Master Plan Study

- Identified problem areas have been nominated, scored and are being prioritized as part of the annual stormwater construction plan review
- District personnel available to answer any SWMP questions that you might have



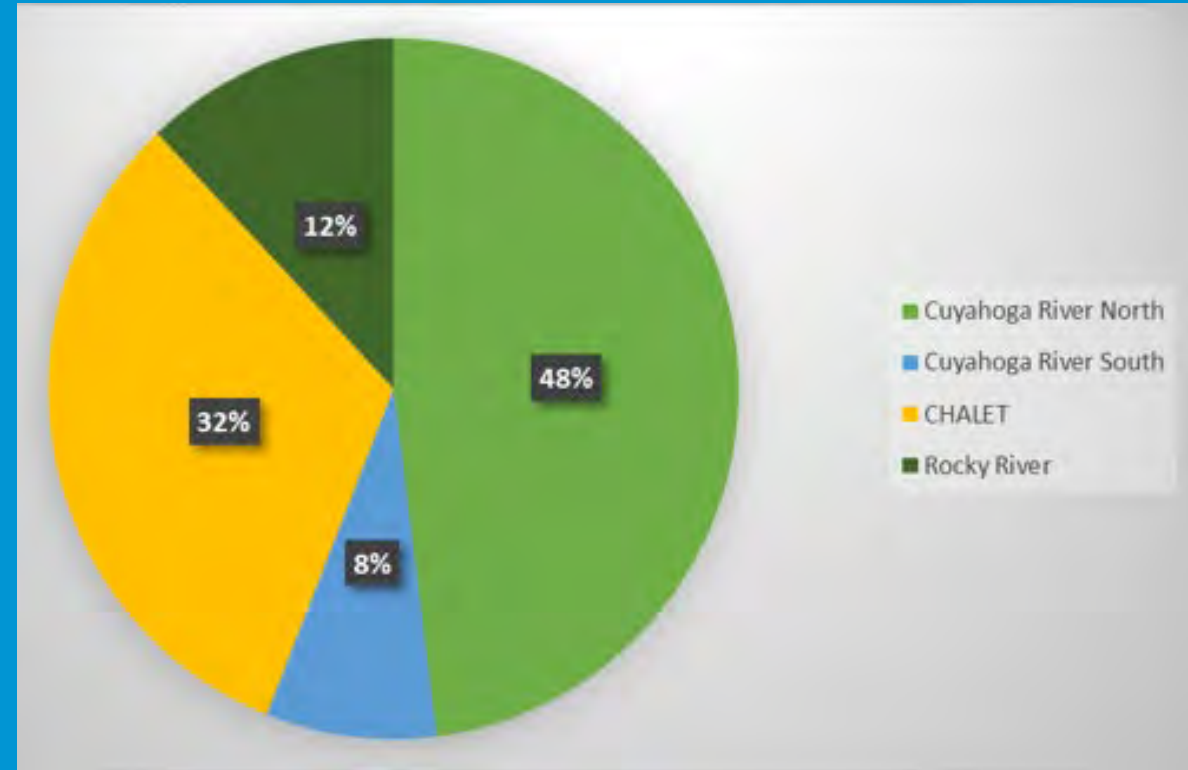
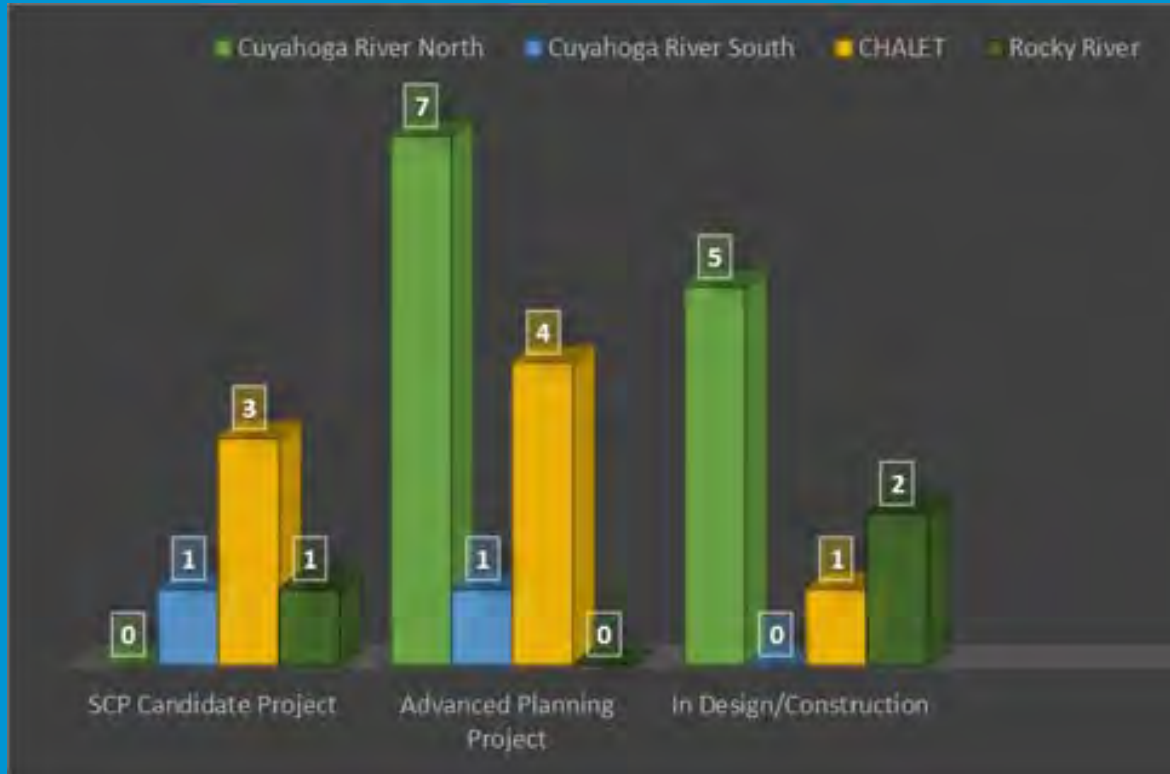


# Stormwater Project Nomination Process





# 2022 Top 25 Stormwater Project Nominations



2022 Top Nominated Projects Watershed Distribution



# 2022 Design Projects Carried Over in the 2023 Stormwater Construction Plan

Nomination I.D.	Project #	Watershed	Community	Problem Area
N/A	1524	CRN	Brooklyn Hts.	WCBH09
2020-SW540	1575	CRS	Broadview Hts., North Royalton	CCPA09
2019-SW46	1584	RBR	Middleburg Heights	ACPA01
2019-SW73	1597	CRN	Parma	BCPA03
2020-SW346	1606	RBR	Brook Park, Middleburg Hts.	AC00126
2022-SW645	1629	LEDT	Cleveland Hts., Shaker Hts.	DBSH04
N/A	1630	CRN	Seven Hills	HCSV01
N/A	1634	CRN	Garfield Hts.	N/A
2019-SW96	1635	CRS	Brecksville	CSPA04
2021-SW625	1639	CRN	Parma Hts.	BCPH12
2019-SW99	1641	CRS	Brecksville	MSPA02
2019-SW90	1645	CRN	Parma	WCPA04
2022-SW648	1649	LEDT	East Cleveland	DEEC03
2020-SW516	1651	CRN	Warrensville Hts.	MCWH05
N/A	1657	CRN	Cleveland, Warrensville Hs.	MCWH07
2019-SW88	1658	RBR	Parma	BDPA06
N/A	1659	CRN	Cleveland, Garfield Hts.	N/A
2019-SW89	1661	RBR	Parma	BDPA07
2019-SW70	1663	CRN	North Royalton	BCNR02
2019-SW70	TBD	CRN	Sprague Road Bank Stabilization	BCNR02



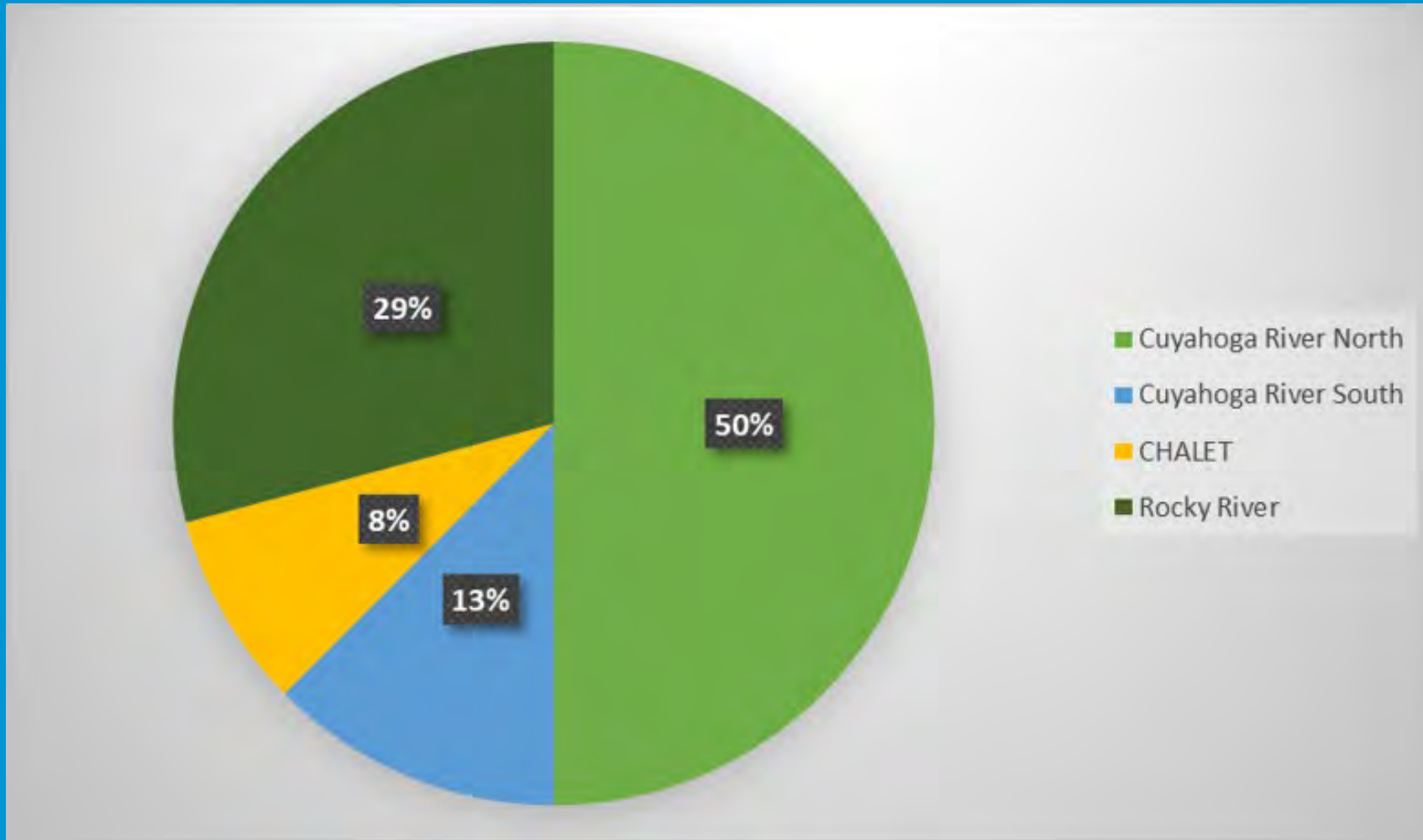
# 2022 Project Nominations to Stormwater Construction Plan

Nomination I.D.	Watershed	Problem Area	Reason for Selection
2020-SW368	Cuyahoga North	WBBP03 – Phase A: Kolleda Ditch	Failing infrastructure
2020-SW545	Rocky River	WBPA05	Secured critical mass of required property & distribution of projects across service area
2020-SW501	Rocky River Baldwin Creek	BDPA09 – Phase A: Applewood Basin Improvements	Failing infrastructure
2020-SW448	Rocky River Abram Creek	ACPA06 – Smith Rd Basin	Secured critical property & receipt of Federal Funding





# Watershed Distribution of Current & Proposed Design Projects in the 2023 Stormwater Construction Plan





# Advanced Stormwater Planning in 2023

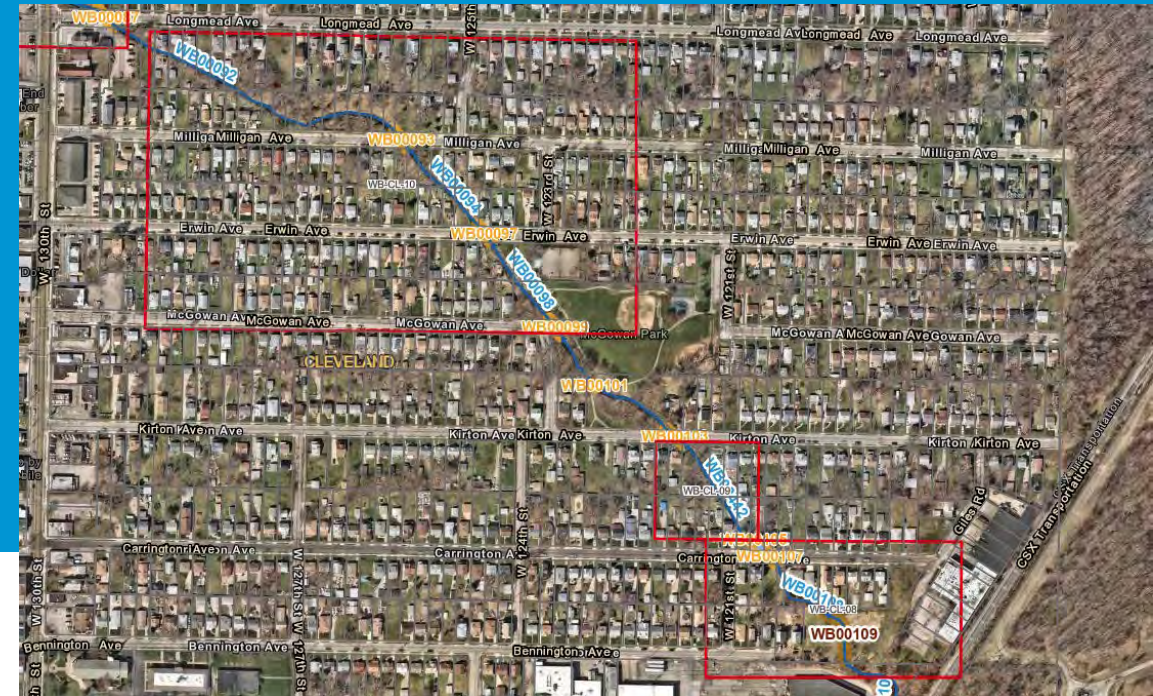
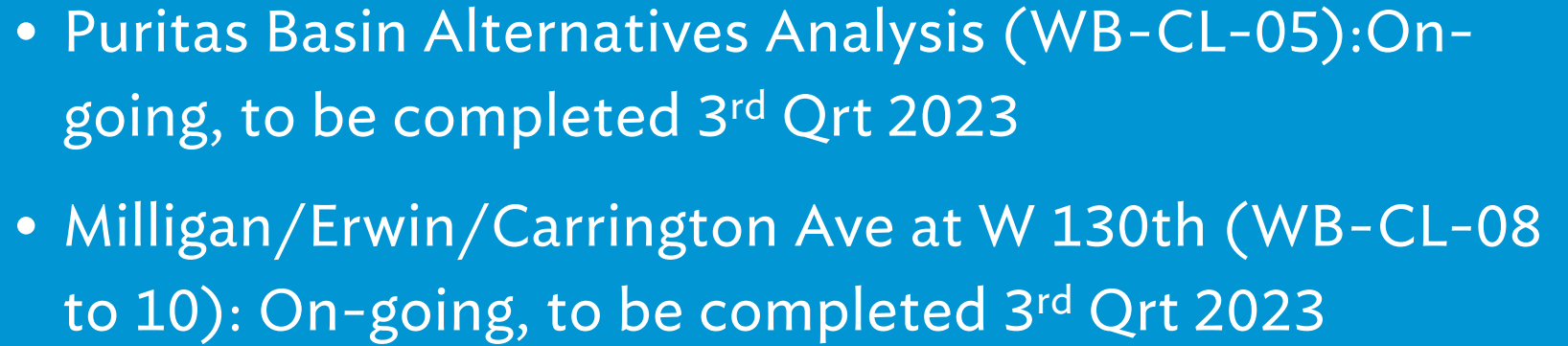
## Goal to ready projects for full design

- Projects that require additional information to understand full RSS impacts
- Are cost prohibitive w/o phasing
- Breakdown of complex, preferred alternatives into manageable projects
- Acquisition/Easement procurement
- Coordination considerations with outside stakeholders



Ridge Road, Parma– Big Creek



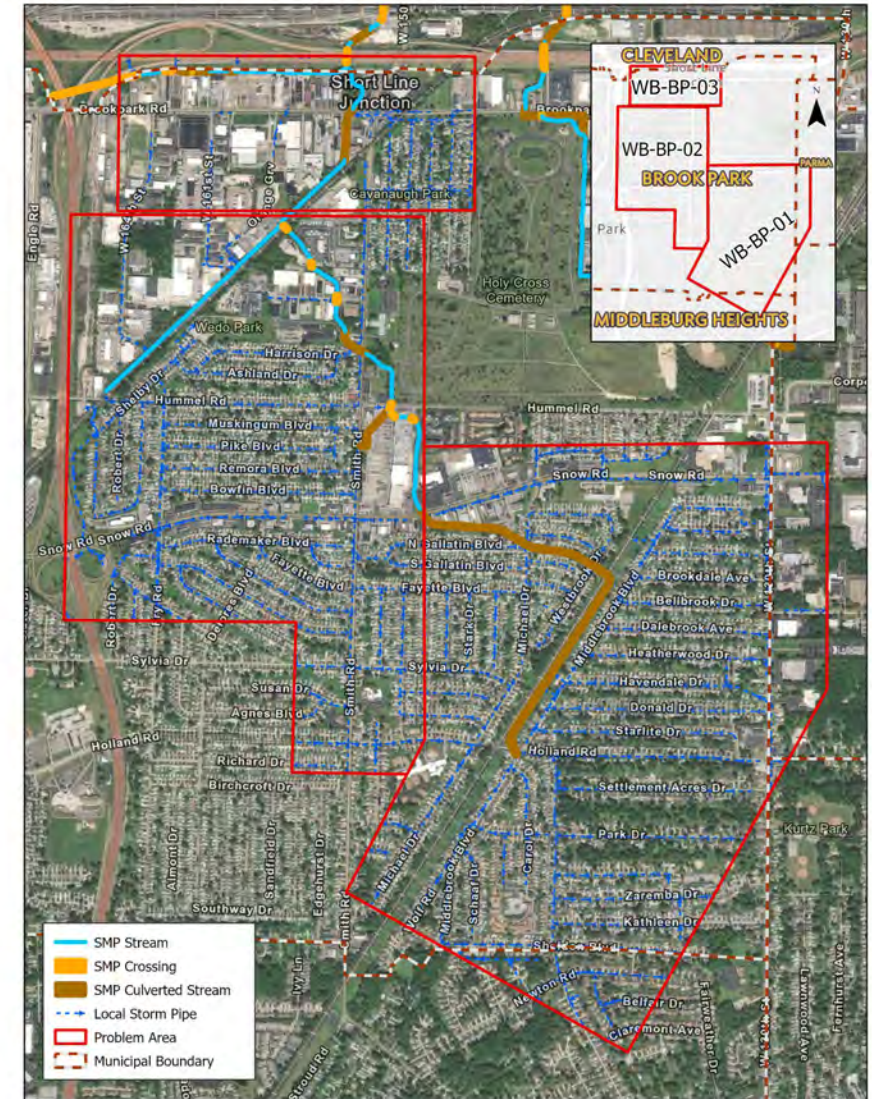




# Advanced Stormwater Planning in 2023

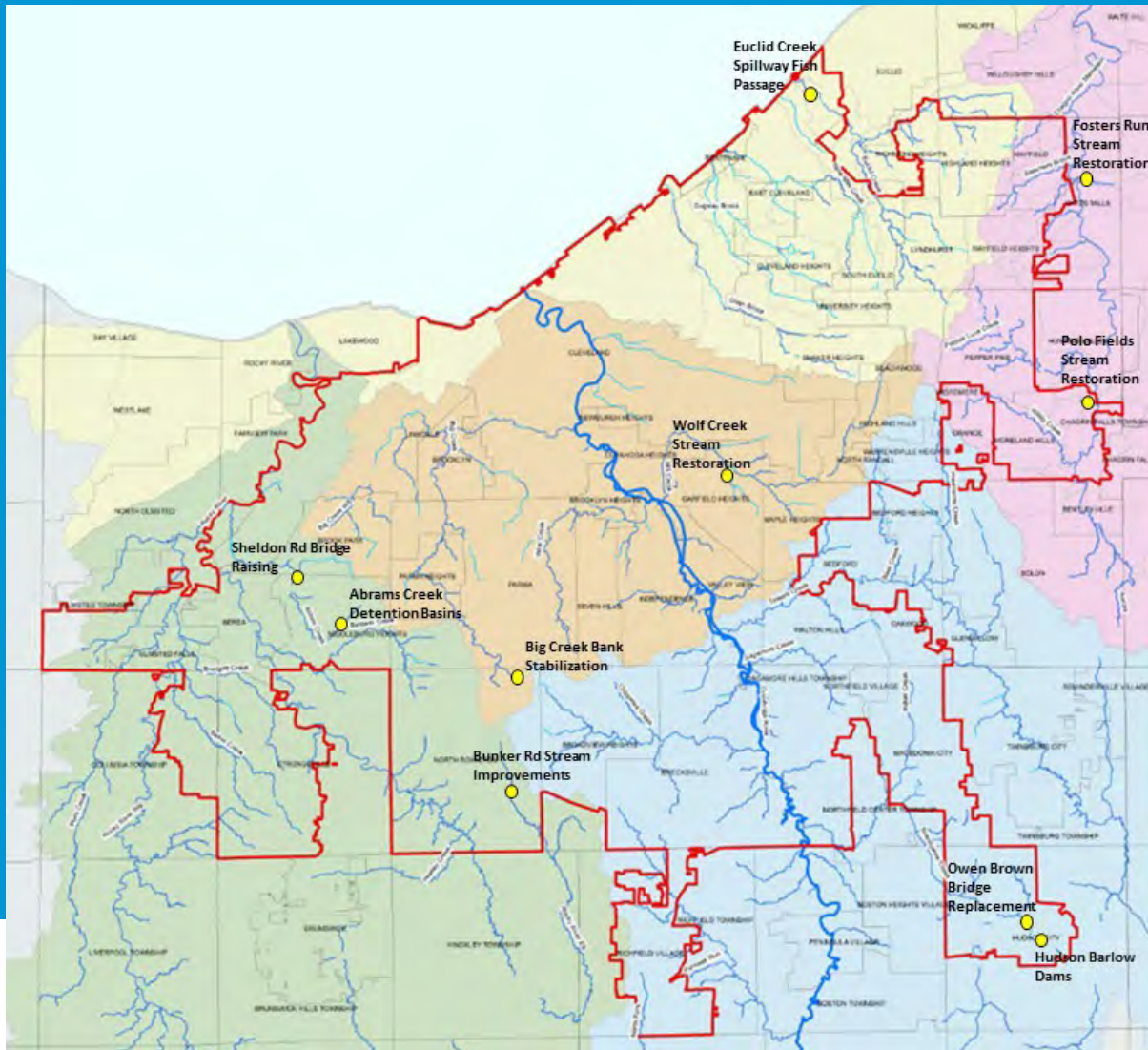
## 1673: ASP of Big Creek West Branch for Problem Areas WB-BP-01 to 03 (New ASP Contract – Planning to advertise RFP end of March)

- Preferred alternatives from the SWMP no longer viable
- Need to better understand interactions between the RSS and local stormwater system
- Understand the benefits to RSS and LSS from new alternatives





# Community Lead Projects



## In Design Phase

<i><b>Project Title</b></i>	<i><b>Community</b></i>
Abram Creek Detention Basins 1 & 2	Middleburg Heights
Big Creek Bank Stabilization	North Royalton
Bunker Road Stream Improvements	North Royalton
Euclid Creek Spillway Fish Passage	US Army Corps of Engineers
Owen Brown Bridge Replacement	Hudson
Polo Fields Stream Restoration	Cleveland Metroparks
Sheldon Road Profile & Bridge Raising	Brook Park

## In Construction Phase

Abram Creek Detention Basin 3	Middleburg Heights
Barlow Dam Improvements	Hudson
Wolf Creek Stream Restoration	Cleveland Metroparks

## Completed

Fosters Brook Stream Restoration	Cleveland Metroparks
----------------------------------	----------------------



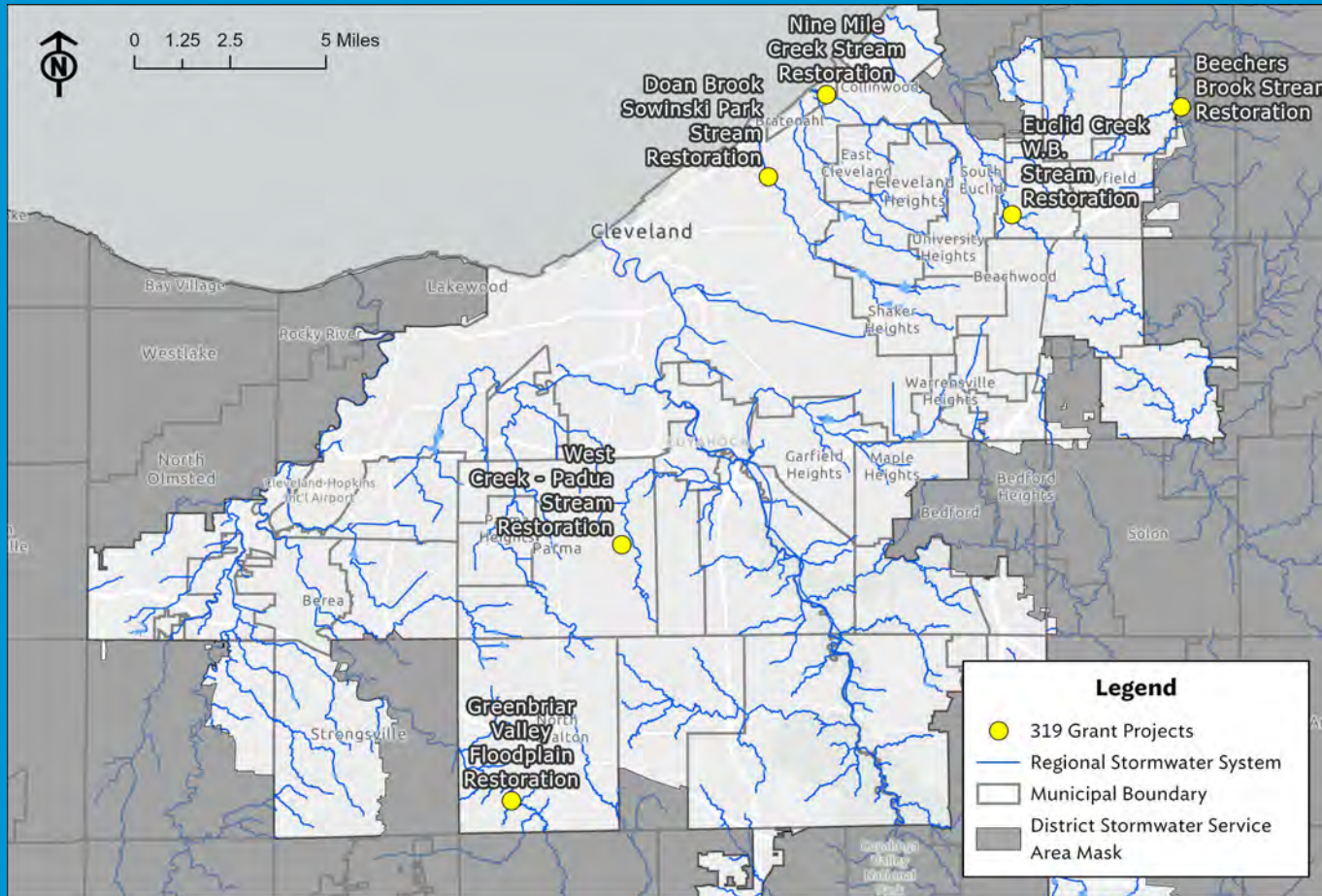
# Watershed Partner Lead Project – Status Update

## Wolf Creek Stream Restoration, Garfield Heights





# OEPA Section 319 Grant - Partner Lead Projects

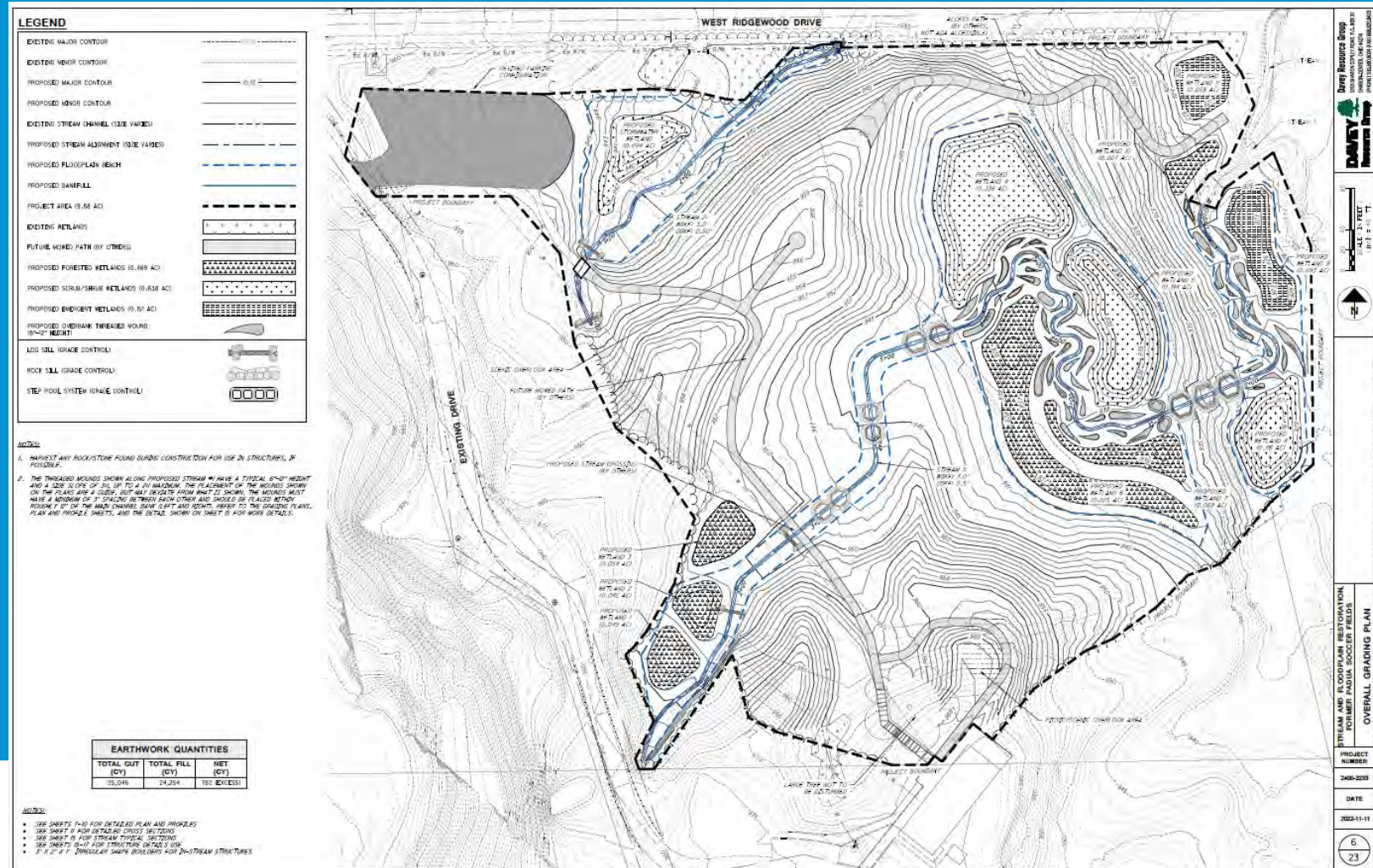


In Design Phase		
Project Title	Project Lead	Community
Greenbriar Valley Floodplain Restoration	CUY Soil & Water Conservation District	North Royalton
In Construction Phase		
Doan Brook Sowinski Park Stream Restoration	Doan Brook Watershed Partnership	Cleveland
Euclid Creek West Branch Phase I Stream Restoration	CUY Soil & Water Conservation District	Lyndhurst
Nine Mile Creek Stream Restoration	Chagrin River Watershed Partners	Bratenhal
West Creek - Padua Stream Restoration	West Creek Conservancy	Parma
Completed		
Beechers Brook Stream Restoration	CLE Metroparks	Mayfield Village



# Watershed Partner Lead Project – Status Update

## Padua Stream & Floodplain Restoration, Parma







# Stormwater Design and Construction



# Design and Construction Projects

## Project Story Map

Over \$130M in Construction



Project Name	City	Subwatershed	Actual or Estimated Construction NTP
Debris Racks and Access Road Improvements	(various)	(various)	1-Jun-21
Baldwin Creek Stabilization near Abbey Road	North Royalton	Baldwin Creek	19-Jan-22
Chippewa Creek Stabilization Broadview Rd	Broadview Hts	Chippewa Creek	1-Feb-22
Blodgett Creek Stabilization near Brigadoon	Strongsville	Blodgett Creek	14-Mar-22
Big Creek Flood Reduction near Sprague Road	(various)	Big Creek	14-Mar-22
Brandywine Creek Barlow Dam Improvements	Hudson	Brandywine Creek	14-Apr-22
Brookside Culvert	Cleveland	Big Creek	10-May-22
Baldwin Stormes Drive	Parma	Baldwin Creek	10-Jun-22
Picha Basin	Brecksville	Cuy Trib	17-Jun-22
Pepper Luce Creek Stabilization Gates Mills Blvd	Pepper Pike	Pepper Luce Creek	27-Jun-22
Big Creek Upper Ridgewood Basin	Parma	Big Creek	1-Aug-22
Bear Creek Culvert Improvements	North Randall	Bear Creek	15-Sep-22
Stafford Basin	Maple Hts	Wood Creek	10-Oct-22
Chippewa Creek Stabilization Route 21	Brecksville	Chippewa Creek	12-Dec-22
Doan Stabilization in Shaker Hts Country Club	Shaker Heights	Doan Brook	19-Dec-22
Brookside in Independence CH00147	Independence	Cuy Trib	15-Mar-23
Big Creek near Old York Road in Parma Hts	Parma Hts	Big Creek	5-Apr-23
Pecan Drive Stabilization	Parma	Big Creek	19-Apr-23
West Creek Stabilization	Brooklyn Hts	West Creek	19-Apr-23
Chippewa Creek Flood Reduction Echo Ln	Broadview Hts	Chippewa Creek	17-May-23
Mill Creek Culverted Stream Rehab (ROCS1)	Garfield Hts	Mill Creek	19-Jul-23
Big Creek Near Ridge Road	Parma	Big Creek	19-Jul-23
Hemlock Seven Hills Phase 1	Seven Hills	Hemlock Creek	2-Aug-23
Cuyahoga River Vaughn Road Raising	Brecksville	Cuyahoga	3-Jan-24
West Creek Veterans Basin	Parma	West Creek	5-Jun-24
Baldwin Bonny Banks Basin	Parma	Baldwin Creek	15-Nov-23
Mill Creek Restoration near Cricket Ln	Warrensville Hts	Mill Creek	15-May-24
Cuyahoga Trib Riverview Road Reconstruction	Brecksville	Cuy Trib	5-Jun-24
Abrams Creek Flood Reduction Sheldon Rd	(various)	Abrams Creek	1-May-24
Renewal of Culverted Stream II (ROCS2)	(various)	various	30-Nov-24
Baldwin - York Pleasant Valley Dell Haven Basin	Parma	Baldwin Creek	30-Dec-24
Dugway Brook - Forest Hills Dam	East Cleveland	Dugway Brook	24-Apr-24
Big Creek Flood Reduction near Oakridge	North Royalton	Big Creek Creek	30-Jan-25
Hemlock Creek near Hemlock Road	Independence	Hemlock Creek	30-Jan-25
Mill Creek Restoration Kerruish Basin	Garfield Hts	Mill Creek	30-Jan-25
Doan Restoration at Horseshoe Lake Park	(various)	Doan Brook	16-Apr-25
Lower Shaker Lake Reconstruction	(various)	Doan Brook	13-Jan-26





# Stormwater Design



# 1575 Chippewa Creek Flood Reduction Project Near Echo Lane

## Cities of Broadview Heights and North Royalton

### Project Goals:

- Improve existing detention basin
- Replace undersized culvert
- Realign and daylight portions of stream

**Consultant:** Jacobs Engineering Group

**Estimated Construction:** \$9M

**Construction NTP:** 3<sup>rd</sup> Qrt 2023

### Facts to Note:

- Both communities are contributing funds toward local improvements in the project area





# 1635 Riverview Road Flood Mitigation – City of Brecksville

## Project Goals:

- Reduce Flooding, remove ex. Sediment vaults
- Replace 2 culvert crossings
- Reconstruct roadway at higher elevation

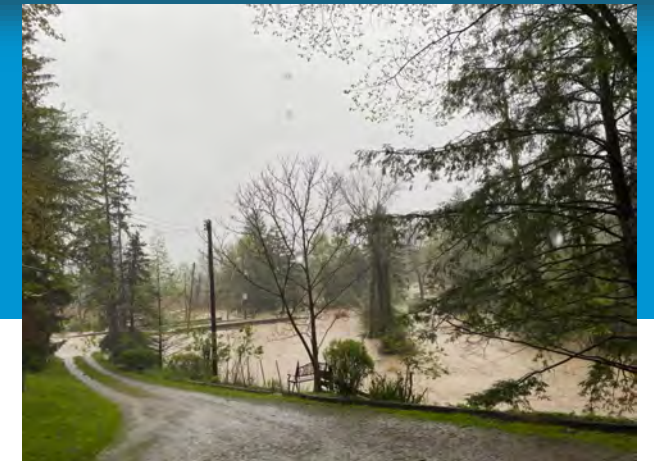
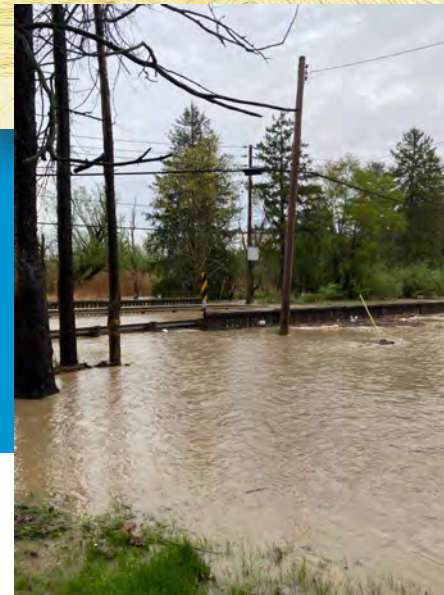
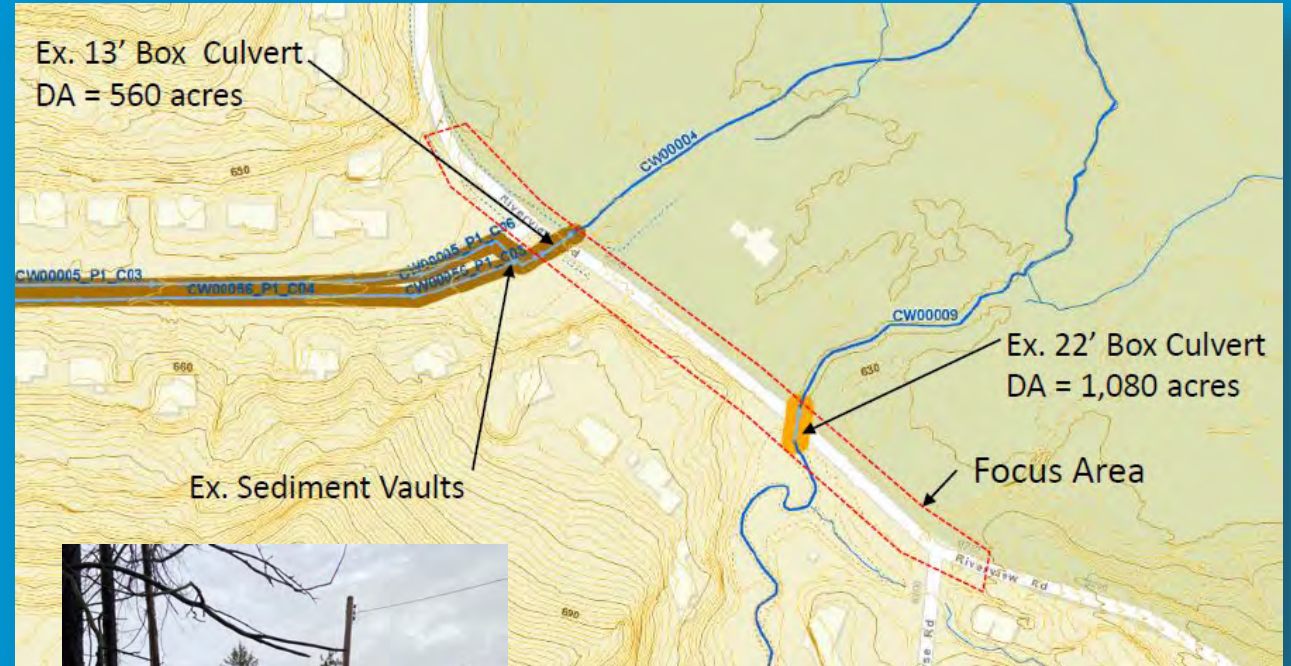
**Consultant:** EMH&T (GES Contract)

**Estimated Construction:** \$2.8M

**Construction NTP: 2024**

## Facts to Note:

- Evaluated under SW Master Planning and Advanced SW Planning
- Phase 1 of larger problem area where erosion and sedimentation will also be addressed





# 1641 Vaughn Road Flood Mitigation – City of Brecksville

## Project Goals:

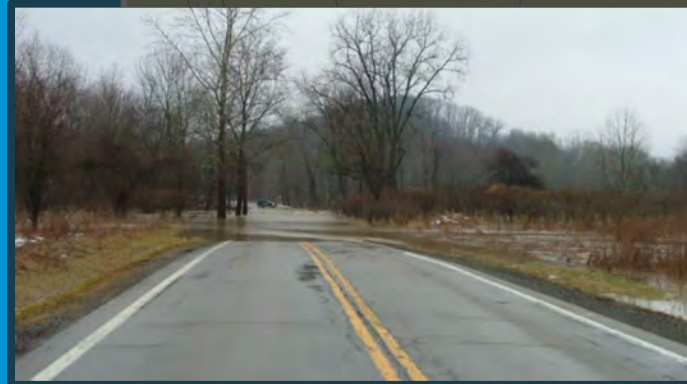
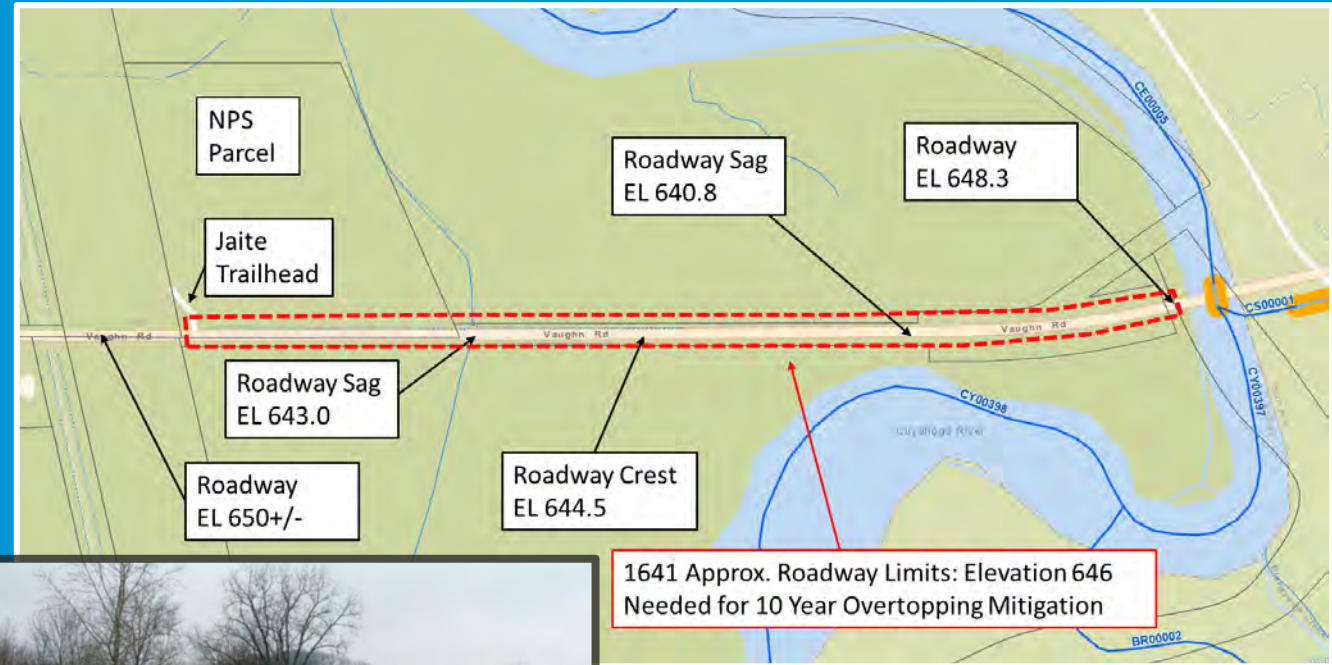
- Reduce Flooding
- Reconstruct roadway at higher elevation

**Consultant:** EMH&T (GES Contract)

**Estimated Construction:** \$2.2M

## Facts to Note:

- Roadway has overtopped multiple times per year which disrupts traffic and deposits debris requiring maintenance cleanup
- Goal is to elevate Vaughn Road to prevent overtopping up to the 10-year flood event







# Stormwater Construction



# 1586 Bear Creek Culvert Improvements

## Village of North Randall

### Project Goals:

- Reduce flooding and erosion risks
- Replace or daylight structurally deficient RSS assets

**Contractor:** Triad Eng & Construction

**Construction Award:** \$1.21M

**Construction NTP:** Sep 15, 2022

### Facts to Note:

- No fee simple land acquisition
- Easements necessary on 11 parcels





# 1500 Chippewa Creek Stabilization near SR21 City of Brecksville

**Contractor:** The Great Lakes Construction Co.

**Contract Amount:** \$1,589,134.00

**Construction Period:** 24 months

**BOP Commitment:**

15% M/WBE, 5% SBE

## **Project Components:**

- Stabilization approximately 100 lf of Chippewa Creek
- Replace water main (CWD reimbursement)
- Install streambank toe protection opposite wall
- Dominion relocated gas main ahead of project







# Completed Projects



# 1578 Chippewa Creek Stream Stabilization

## City of Broadview Heights

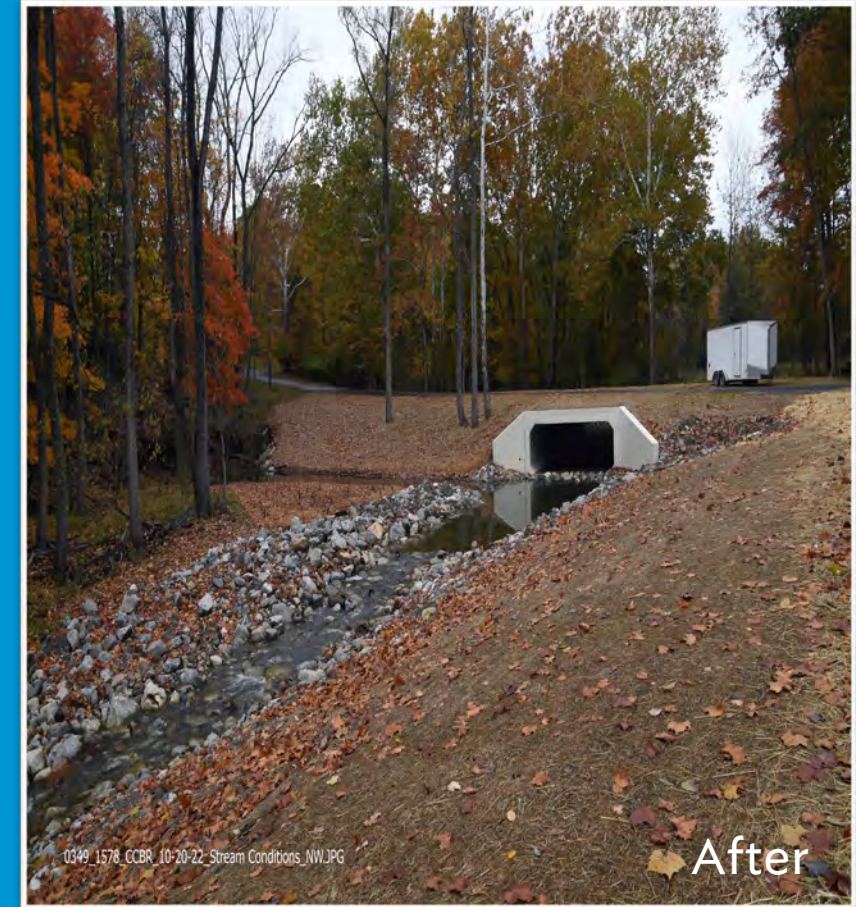
### Project Goals:

- Reduce flooding and erosion risks
- Stabilize 887 feet of stream
- Replace commercial culvert crossing

**Contractor:** Tucson

**Construction Award:** \$1.596M

**Construction NTP:** Feb. 1, 2022







# Plan Review with SagesGov



# Types of Plan Reviews

- Title IV
- Title V
- Green Infrastructure Grant Program
- Direct Connection Requests
- Acceptance of Flow Request (PTI)
- Utility Verification Review
- Member Community Infrastructure Program



# SagesGov

- To Access SagesGov, go to [neorsd.org](https://neorsd.org)
- Business
- Plan Review
- SagesGov Logo
- Register (Individual Account Recommended)
- Verify Email





# SagesGov Submittal

- Log In
- Home Screen
- Select Review
- Application
- Upload PDFs
- Submit

The screenshot shows the SagesGov web application interface. At the top, there's a navigation bar with the SagesGov logo and links for Home, Worklist, Dashboard, Reports, Admin, Search, and Help. The user is logged in as Robert Stoerkel, with a 'Log Out' link and an 'Accessibility Mode' toggle. The main content area is divided into two columns. The left column, titled 'Watershed', contains five tiles: 'Preliminary / Determination', 'Title IV Stormwater - Combined Sewer Area', 'Title V Regional Stormwater System/Stormwater Management', 'Community Cost Share', and 'Green Infrastructure Grant Program'. The right column, titled 'Engineering and Construction', contains four tiles: 'Utility Verification Review', 'Direct Connection Requests', 'Acceptance of Flow Request (P-T-I)', 'Member Community Infrastructure Program', and 'Utility Location, Drawing Requests'. On the far right, there's an 'Announcements' section with a 'Submittal Guidelines' link dated 2/24/2018. Below this, a 'Registration' section lists steps for new users, including registering for an account and adding users. A 'New Submission' section provides instructions on how to start a new submission, including clicking the 'Tile' on the 'Home' tab and following the steps to complete the submission.



# Review, Comments, Resubmittal

- SagesGov will send you an email when the Plan Reviewer is done
- Only Applicant is notified and has access
- Under Files, see marked-up drawings
- Resubmit when revised drawings are ready
- Type in a response for each comment, check Application, Upload revised drawings, hit submit



# Conclusion of Review

- Title IV : No Objection Letter
- Title V in Parma, North Royalton, Olmsted Township (CCDPW) : No Objection Letter
- Direct Connection Requests: Connection Approval Letter
- Acceptance of Flow : Acceptance of Flow Letter
- GIG, Utility Verification, MCIP: Email from SagesGov



# Contact for Help or Questions

- Robert Stoerkel CDPP Specialist
- [StoerkelR@neorsd.org](mailto:StoerkelR@neorsd.org)
- [CDPP@neorsd.org](mailto:CDPP@neorsd.org)
- 216-881-6600 x6802
- Instructions on web page





# Code Updates



# Title III & IV

## Repeal and Replacement







# Authority

Ohio Revised Code Section 6119.08

**Title III Separate Sanitary Sewer Code**

**Title IV Combined Sewer Code**







# Title III – Updated

**Document structure**

**Definitions**

**Creation of The Water Quality Technical Program**





# Title III – Updated

## **Creation of the Water Quality Technical Support Program (WQTSP)**

- District to provide support to communities in addressing water quality issues regulated by others, such as OEPA and County Board of Health
- Voluntary program

## **Community Discharge Permit- Community Must:**

- Control Excessive I/I
- Maintain and update local sewer data
- Implement BMPs
- Create a Community Compliance Plan outlining how compliance of the permit objectives will be achieved







# Title IV – Updated

**Document structure**

**Definitions**

**Connections to or Disconnections from the  
Combined Sewer System**







# Benefits of Title III & IV Updates

- **Consistency**

- Permits for all communities
  - 1 unified permit

- **Improved Utilization of District resources**

- LSSESs
- MCIP

- **Usability**

- **Simplicity**

- **Water quality improvement and infrastructure investment**







# Jeff Jowett

Community Discharge Permit Program Manager

[jowettj@neorsd.org](mailto:jowettj@neorsd.org)

P:216-881-6600 ext.6881

C:216-630-1433







# Infrastructure Funding Update





# Ohio Clean Water State Revolving Loan Fund



**Northeast Ohio  
Regional Sewer District**





# Infrastructure Investment and Jobs Act: Ohio Clean Water State Revolving Loan Fund

- Approximately \$100 million/year to the Water Pollution Control Loan Fund (WPCLF)
  - 5 years of funding (4 remaining)
  - 49% through grants referred to as “principal forgiveness”
  - Focus of grants is disadvantaged communities





# FY 2024 WPCLF Affordability Criteria

Criteria	2023 Value	2024 Value
Median Household Income	$\leq \$58,116$	$\leq \$61,938$
Unemployment Rate	$\geq 5.3\%$	$\geq 5.2\%$
Individuals with Poverty Rate below 200% of the Poverty Level	$\geq 30.4\%$	$\geq 29.8\%$
Percent Population Change	$\leq 50\%$ Increase	$\leq 50\%$ Increase



**Must meet 3 of the 4  
to qualify as  
disadvantaged**







# Types of Projects (Human Health Category)

- Capacity improvements
- Septic System conversions
- Dry weather or wet weather overflows
- Basement back up elimination
- Illicit discharge elimination







# Project Submittal Process

- For FY 2023, communities with the District's help had 3 projects selected for Principal Forgiveness.
- Currently looking at potential projects in the qualified communities.
- Interested communities can submit projects with the District's assistance for FY 2024. Applications due in August 2023.





# Member Community Infrastructure Program Grant

FUNDING YEAR 2024



**Northeast Ohio  
Regional Sewer District**





# Member Community Infrastructure Program (MCIP)

- Annual competitive grant funding (up to \$15M for FY 2024)
- Address water quality and quantity issues associated with the Clean Water Act

Since 2017, the MCIP has invested **\$62.5 million** towards 90 **publicly owned sewer infrastructure improvement projects** which has leveraged an additional **\$82.5 million** in member community sewer infrastructure investments





# Member Community Infrastructure Program Project Impacts

MCIP Year	Basement Flooding Remediation	Reduced Impact on SSO/CSO	Removal of WWTP	HSTS Removal	Linear Feet of New Collection System
2017	427	3		779	67,855
2018	39	2	1	402	18,130
2019	659	3	2	232	34,147
2020	149	2		182	20,276
2021	332	1			20,591
2022	576	14		73	37,117
2023	1,356	17			75,368
<b>TOTAL</b>	<b>3,538</b>	<b>42</b>	<b>3</b>	<b>1,668</b>	<b>273,484</b>







# Member Community Infrastructure Program (MCIP)

## What's New – Policy Changes, 2023

Direct Disbursement – beginning July 1, 2023, grantees can begin applying for direct disbursement of MCIP funds

## What's Upcoming- Funding year 2025

Title III – Code of Regulations of the Northeast Ohio Regional Sewer District  
Separate Sanitary Sewer Code (update 12/2022)

*Beginning with the **2025 MCIP** funding round, anticipated **2025 RFP** release in March 2024, a community must be a participant in the Water Quality Technical Support Program to be eligible for grant funding.*







# Member Community Infrastructure Program (MCIP)

## 2024 MCIP Implementation Schedule

- March 2 RFP Release
- April 17-28 Pre-Proposal Meetings
- May 15 MCIP Submissions Due
- June – July Proposal Reviews
- August Recommendations to Board of Trustees

2024 Request for Proposals are available on the MCIP webpage at [NEORSD.org](https://NEORSD.org)  
*Further program questions, contact Linda Mayer, [mayerl@neorsd.org](mailto:mayerl@neorsd.org)*







# 2022 Clean Watersheds Needs Survey

- EPA report to Congress on Clean Water needs
  - Supports state and congressional budgeting efforts
  - Supports public information and other clean water initiatives
  - Typically conducted every 4 years
- EPA will send the survey out to large communities/service providers.
- Due date moved to April 28, 2023







# What should communities submit?

Local wastewater and stormwater capital costs, (e.g. design & construction, vac trucks); do not include maintenance costs.

District submitted:

Stormwater Master Plan needs, as well as WWTP, totaling \$3.3B.

LSSES documentation provided to OEPA, totaling \$3.4B.





# WTL Contact

Anne Schilling

Watershed Team Leader

[SchillingA@neorsd.org](mailto:SchillingA@neorsd.org)

(216) 379-0203

Donna Friedman

Manager of Community Watershed Coordination

[Friedmand@neorsd.org](mailto:Friedmand@neorsd.org)

(216) 401-1332



**Thank you!**