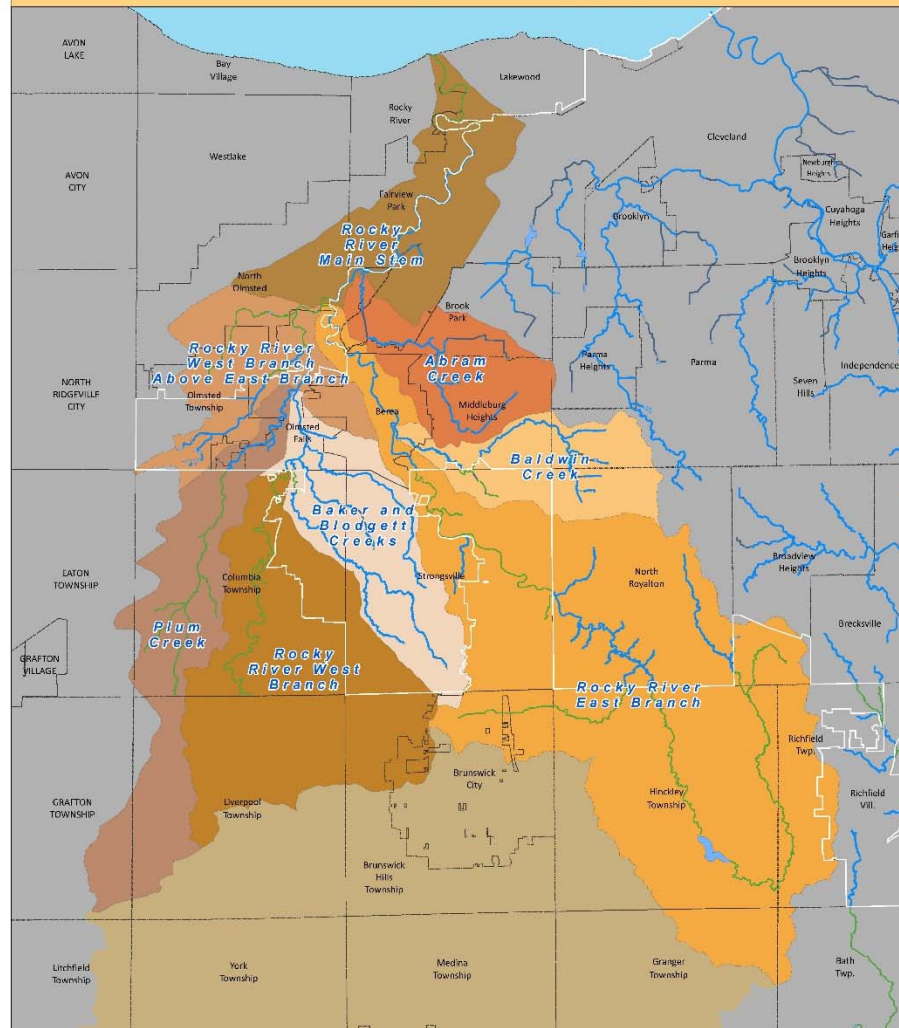


Rocky River Watershed



**Northeast Ohio
Regional Sewer District**

1:58,912



Coordinate System : Ohio State Plane North
Datum: NAD 1983 , NAVD 1988
Projection: Lambert Conformal Conic
Sources: NEORS D GIS

Map Created: March 2017

This information is for display purposes only. The Northeast Ohio Regional Sewer District (NEORS D) makes no warranties, expressed or implied, with respect to the accuracy of and the use of this map for any specific purpose. This map was created to serve as base information for use in Geographic Information Systems (GIS) for a variety of planning and analysis purposes. The NEORS D expressly disclaims any liability that may result from the use of this map. For more information, please contact: NEORS D GIS Services, 3900 Euclid Avenue, Cleveland, Ohio 44115 (216) 881-6600 — GIS@neorsd.org

-  Regional Stormwater System in NEORS D Service Area
-  Regional Stormwater System not in NEORS D Service Area
-  Service Area
-  Community
-  District Culverted Stream

NORTHEAST OHIO REGIONAL SEWER DISTRICT



REGIONAL
STORMWATER
MANAGEMENT
PROGRAM

Regional Stormwater Management Program

Watershed Advisory Committee

March 2017



Your Sewer District Keeping our Great Lake great.



Agenda

- Welcome
- Stormwater Construction Plan
- Stormwater Master Plans
- Stormwater Inspection and Maintenance
- Program Update
 - Community Cost-Share: Policy Update
 - Phase II Services
 - SW Plan Review – Common comments/issues



Stormwater Construction Plan 2016-2017









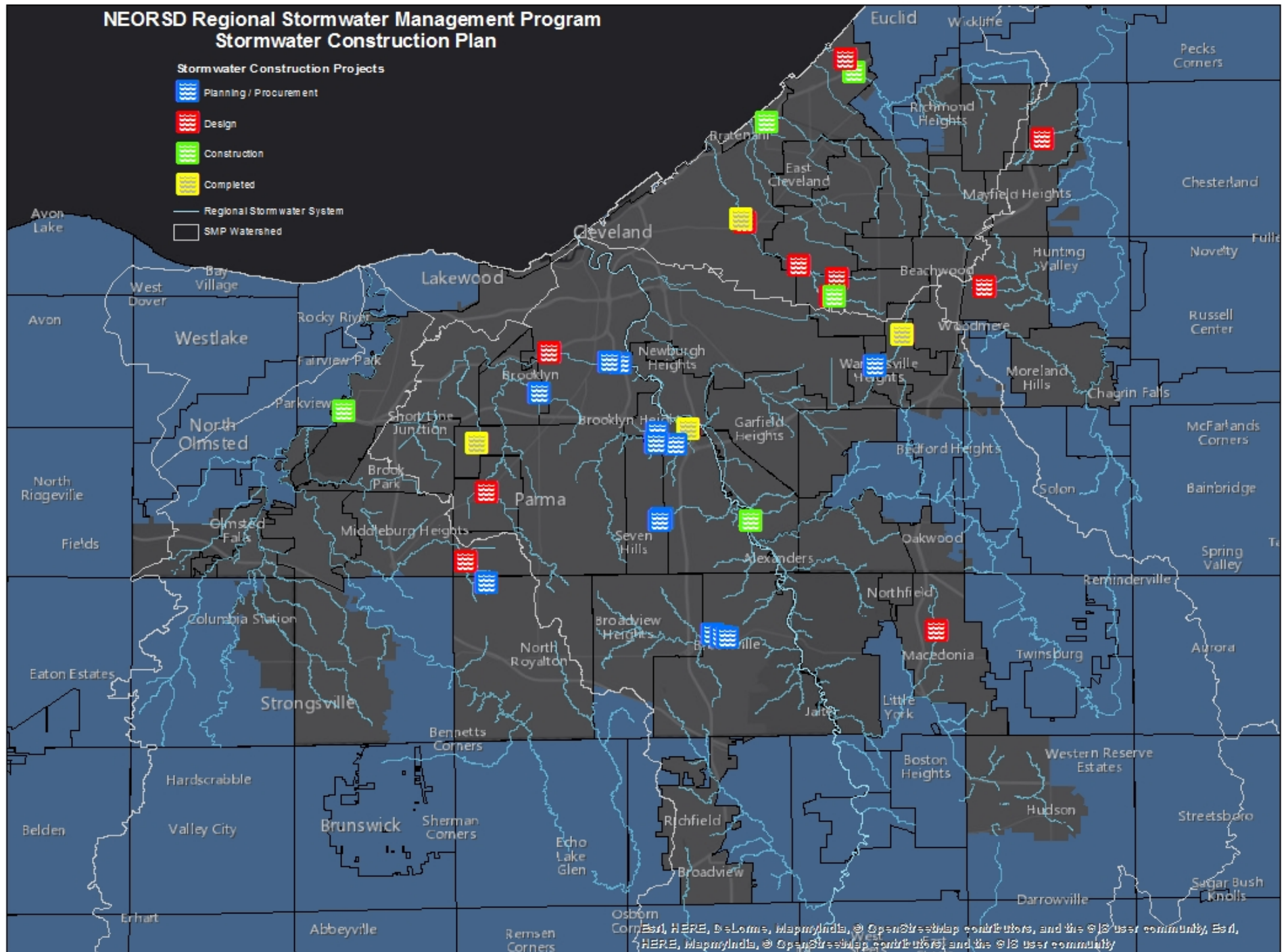
Your Sewer District Keeping our Great Lake great.



NEORSD Regional Stormwater Management Program Stormwater Construction Plan

Stormwater Construction Projects

-  Planning / Procurement
-  Design
-  Construction
-  Completed
-  Regional Stormwater System
-  SMP Watershed





STORMWATER CONSTRUCTION PLAN

Stormwater Construction Plan 2017-2018



Please note, this is current as of the indicated date. This schedule will undoubtedly change. Please contact your Watershed Team Leader for the most current schedule for any particular project.

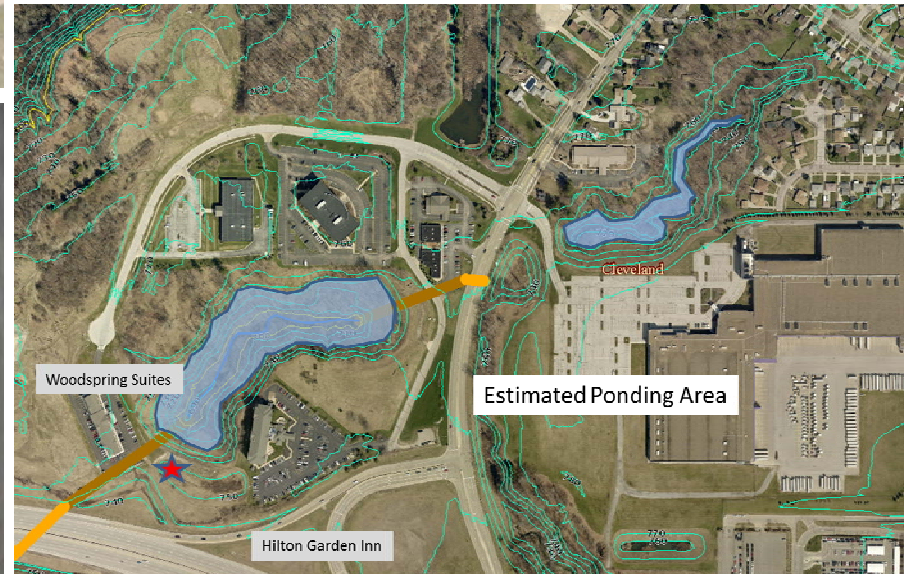
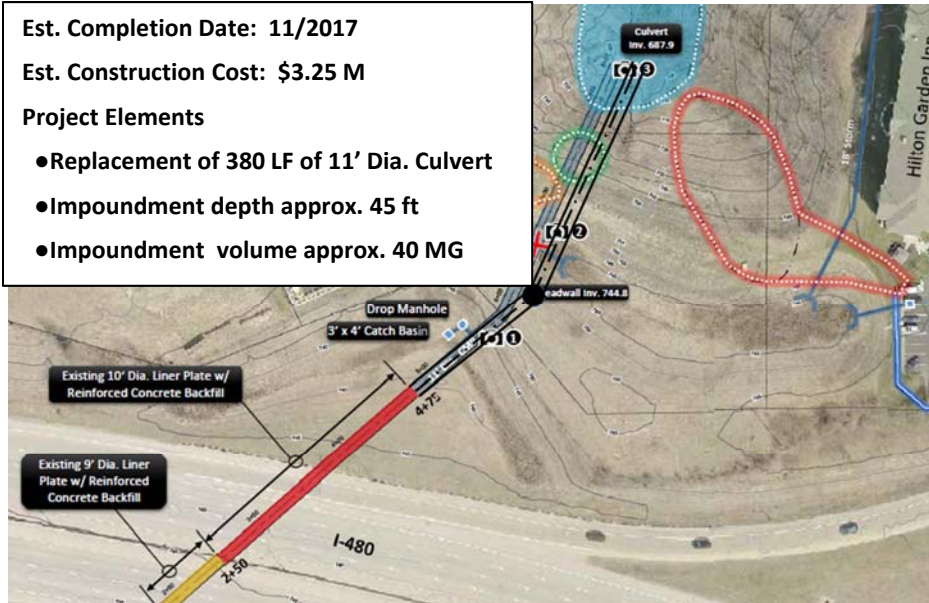
Emerald Pkwy. Culvert Replacement

Est. Completion Date: 11/2017

Est. Construction Cost: \$3.25 M

Project Elements

- Replacement of 380 LF of 11' Dia. Culvert
- Impoundment depth approx. 45 ft
- Impoundment volume approx. 40 MG



Baldwin Creek Bank Stabilization



Construction Commencing: Fall 2018

Est. Construction Cost: \$600,000

Project Elements:

- Repair of failing retaining wall
- Repair of impacted utilities
- Floodplain expansion



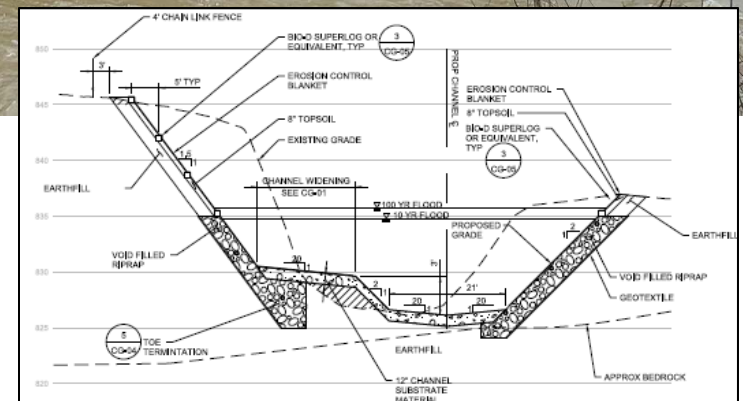
Colombo Park Bank Stabilization

Construction Commencing: Early 2018

Est. Construction Cost: \$1.6 M

Project Elements:

- Stabilization of eroding bank to protect sanitary infrastructure
- Stabilization of stream bed to reduce downcutting
- Riparian and floodplain enhancement





Sioux Lane Culvert Replacement, Macedonia

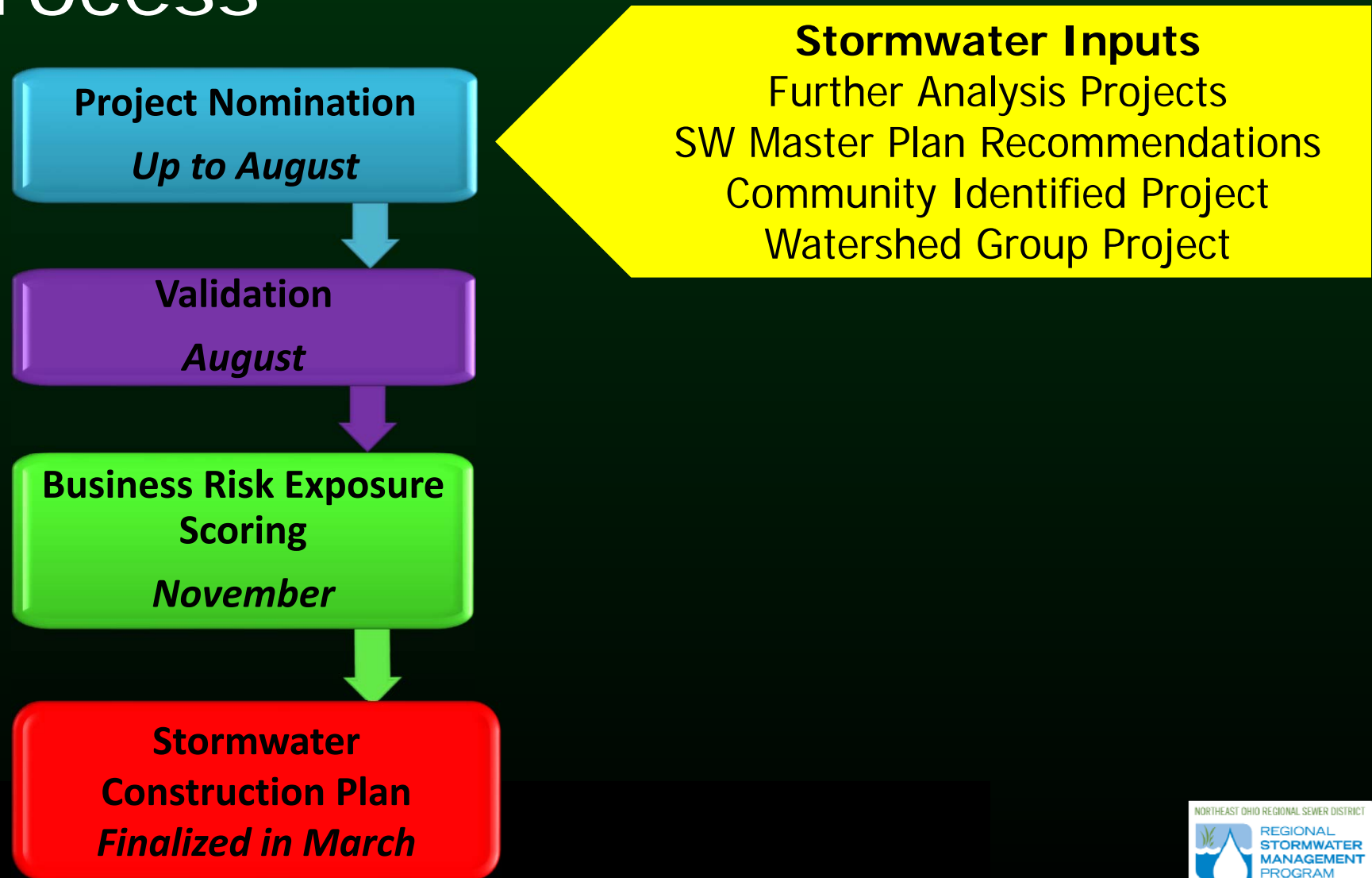
Stormwater Construction Plan Annual Review Process



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Stormwater Construction Plan Process



Stormwater Construction Plan Community Nomination



COMMUNITY PROPOSED STORMWATER PROJECT INFORMATION SUBMITTAL

The following information is necessary for the Northeast Ohio Regional Sewer District (NEORSRD) to evaluate proposed projects during the stormwater construction planning process under the Regional Stormwater Management Program. Complete information will aid in determining benefit to the Regional Stormwater System and facilitate the evaluation process. NEORSRD may request additional information to gain a better understanding of the project. NEORSRD can provide limited technical assistance for this submittal, however preliminary engineering studies are the responsibility of the community.

The submittal of this information is solely for the purposes of facilitating the Sewer District's evaluation of projects along the Regional Stormwater System proposed by communities. The submittal of this information does not obligate the Sewer District to participate in or implement the proposed project.

Community Information	
Community	
Project Contact Name and Title	
Address	
Phone Number	
Email Address	

Project Information	
Project Name	
Project Location (Address and Attached Location Map)	
Parcel Numbers	
Ownership	
Stream/Watershed	
Proposed Start Date	
Proposed Completion Date	
Project Cost	

NORTHEAST OHIO REGIONAL SEWER DISTRICT COMMUNITY STORMWATER PROJECT INFORMATION FORM

Project Description (please attach or provide the following information)

1) Project Summary

Describe the project.

- Problem being addressed;
- Objectives and outcomes. Include explanation of the extent of specific improvements along the Regional Stormwater System;
- Vicinity maps, drawings, or figures of the site and the project;
- Other relevant project details that will facilitate NEORSRD's review.

2) Background Information

Include studies and planning documents which support the need, and the proposed solution, if applicable.

- Site soils;
- Geotechnical studies;
- Wetlands, water quality, and listed species
- Preliminary hydrology and hydraulics (existing and proposed hydraulics to determine benefit to the Regional Stormwater System)
- Permitting (if initiated)
- Risks or constraints
- Known stakeholder outreach or input
- Current photos of the project site

3) Budget Summary

The Budget Summary should include details on materials and services including specific material cost and hourly rate. If there is a volunteer component, please identify the source of volunteers and the extent to which these volunteers are committed to the specific project. If outside funding is guaranteed, please include the amount to be paid from other sources. If outside funding is anticipated, please include information on sources, timelines, and likelihood. Include an engineer's estimate if available.

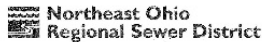
2



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Stormwater Construction Plan Community Nomination: Sioux Lane



COMMUNITY/ORGANIZATION PROPOSED STORMWATER PROJECT INFORMATION SUBMITTAL

The following information is necessary for the Northeast Ohio Regional Sewer District (NEORSD) to evaluate proposed projects during the stormwater construction planning process under the Regional Stormwater Management Program. Complete information will aid in documenting projects to the Regional Stormwater System and facilitate the evaluation process. NEORSD may request additional information to gain a better understanding of the project. NEORSD can provide limited technical assistance for the submittal, however preliminary engineering studies are the responsibility of the community sponsor.

The submittal of this information is solely for the purposes of facilitating the Sewer District's evaluation of projects under the Regional Stormwater System program by community and/or organizations. The submittal of this information does not obligate the Sewer District to participate in or implement the proposed project.

Organization/Community Information	
Organization/Community	City of Macedonia
Project Contact Name and Title	Donald J. Sheehy, City Engineer
Address	22999 Foxboro Road, Oakwood, Ohio 44136
Phone Number	440-439-1533
Email Address	sheehydonald@macedonia.com

Project Information	
Project Name	Sioux Lane Culvert Replacement
Project Location (Address and Attached Location Map)	Sioux Lane, between Chenook Run and Chenook Run
Parcel Numbers	Sioux Lane, public right-of-way
Ownership	City of Macedonia
Street/Highway	Sioux Lane
Project Start Date	02/15/16
Proposed Construction Date	2017/2018
Project Cost	\$215,000.00

Sioux Lane Culvert Replacement City of Macedonia Proposed Storm Water Project Submittal June 21, 2016

1) Project Summary

The Sioux Lane Culvert Replacement Project consists of the complete removal of the existing stream crossing, and installation of a concrete box culvert. The existing crossing consists of six CMP arches. The proposed concrete box will have an opening that is four feet in height and twenty feet in width. This project will address both the structural failings, and the hydraulic inefficiencies of the existing crossing. The existing CMP culverts are experiencing severe corrosion and joint separation, which is resulting in sinkholes on the roadway surface. The severity of these sinkholes has previously forced the City of Macedonia to close Sioux Lane to traffic. Given the structural deficiencies of the crossing, the City will need to proceed with the culvert replacement in the fall of 2016. The damage to the existing pipes has also resulted in partial blockages of the culvert, thus reducing the hydraulic capacity of the crossing. Finally, the six-barrel culvert design, and the relatively small opening size of each barrel, causes debris to gather at the upstream openings and further restrict flow. This causes the need for continual monitoring and cleaning of the culvert by both local and NEORSD forces. See attached mapping.

2) Background Information

NEORSD performed a complete inspection of this culvert on May 20, 2016, the results of which are on file. In addition, we have performed preliminary hydraulic calculations for this culvert replacement. In summary, replacing the existing six-barrel crossing with a 4' x 20' box culvert will lower the upstream water surface elevation immediately upstream of Sioux Lane by two inches. This culvert replacement will have no effect on water surface elevations downstream of Sioux Lane. See the tables below. All water surface elevations given in feet above sea level.

25 Year Storm Event				
	Approx. 300' Upstream	Immediately Upstream	Culvert	Approx. 300' Downstream
Existing Conditions	1003.14	1002.88	---	1000.90
Proposed Conditions	1003.04	1002.72	---	1000.43

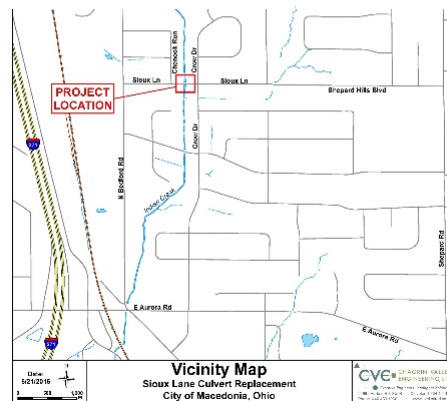
100 Year Storm Event				
	Approx. 300' Upstream	Immediately Upstream	Culvert	Approx. 300' Downstream
Existing Conditions	1003.63	1003.41	---	1001.78
Proposed Conditions	1003.50	1003.24	---	1001.44

3) Budget Summary

The preliminary project cost estimate is \$215,000.00. The NEORSD share for culvert and hydraulic improvements is estimated to be \$174,000.00. The City of Macedonia share for other utility and pavement improvements is estimated to be \$41,000.00.

SIoux Lane Culvert Replacement CITY OF MACEDONIA PRELIMINARY PROJECT COST ESTIMATE June 24, 2016									
Item	Description	Unit	Quantity	Unit Price	Total Price	NEORSD Share	City Share	Notes	
1	REPLACE WITH 4' x 20' FOUR-SIDED BOX CULVERT	AMP	1	\$ 225,000.00	\$ 225,000.00	\$ 174,000.00	\$ 51,000.00		
2	BOX CULVERT, 4' x 20', 10' LONG, 10' DEEP, 10' WIDE	LF	10	\$ 1,000.00	\$ 10,000.00	\$ 8,000.00	\$ 2,000.00		
3	CONCRETE TOP, 4' x 20', 10' LONG, 10' DEEP	SF	100	\$ 8.00	\$ 800.00	\$ 640.00	\$ 160.00		
4	PRELIMINARY DESIGN	HR	2	\$ 10,000.00	\$ 20,000.00	\$ 16,000.00	\$ 4,000.00		
5	CONCRETE CURB, 4' x 20', 10' LONG, 10' DEEP	LF	20	\$ 10.00	\$ 200.00	\$ 160.00	\$ 40.00		
6	BOX CULVERT, 4' x 20', 10' LONG, 10' DEEP	LF	2	\$ 1,000.00	\$ 2,000.00	\$ 1,600.00	\$ 400.00		
7	CONCRETE TOP, 4' x 20', 10' LONG, 10' DEEP	SF	20	\$ 8.00	\$ 160.00	\$ 128.00	\$ 32.00		
8	CONCRETE CURB, 4' x 20', 10' LONG, 10' DEEP	LF	40	\$ 10.00	\$ 400.00	\$ 320.00	\$ 80.00		
9	CONCRETE TOP, 4' x 20', 10' LONG, 10' DEEP	SF	80	\$ 8.00	\$ 640.00	\$ 512.00	\$ 128.00		
10	CONCRETE CURB, 4' x 20', 10' LONG, 10' DEEP	LF	80	\$ 10.00	\$ 800.00	\$ 640.00	\$ 160.00		
11	CONCRETE TOP, 4' x 20', 10' LONG, 10' DEEP	SF	160	\$ 8.00	\$ 1,280.00	\$ 1,024.00	\$ 256.00		
12	CONCRETE CURB, 4' x 20', 10' LONG, 10' DEEP	LF	160	\$ 10.00	\$ 1,600.00	\$ 1,280.00	\$ 320.00		
13	CONCRETE TOP, 4' x 20', 10' LONG, 10' DEEP	SF	2	\$ 8.00	\$ 16.00	\$ 12.80	\$ 3.20		
Total Preliminary Project Cost Estimate					\$ 2,215,000.00	\$ 1,740,000.00	\$ 475,000.00		
Total Preliminary Project Cost Estimate					\$ 2,215,000.00	\$ 1,740,000.00	\$ 475,000.00		

Notes:
The costs shown represent an estimate of project costs and do not represent a final project cost. The City of Macedonia share for other utility and pavement improvements is estimated to be \$41,000.00.



Scoring for Project Prioritization



Analysis Components

- Financial
- Social/Reputational
- Compliance
- Environmental
- Safety

2 years=	50 points
5 years=	20 points
10 years=	10 points
25 years=	5 points
50 years=	1 points
100 years=	0 points



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Stormwater Construction Plan



Northeast Ohio Regional Sewer District

[Show Project Summaries](#)

2017 - 2021 Stormwater Program Summary As of Jan 31, 2017

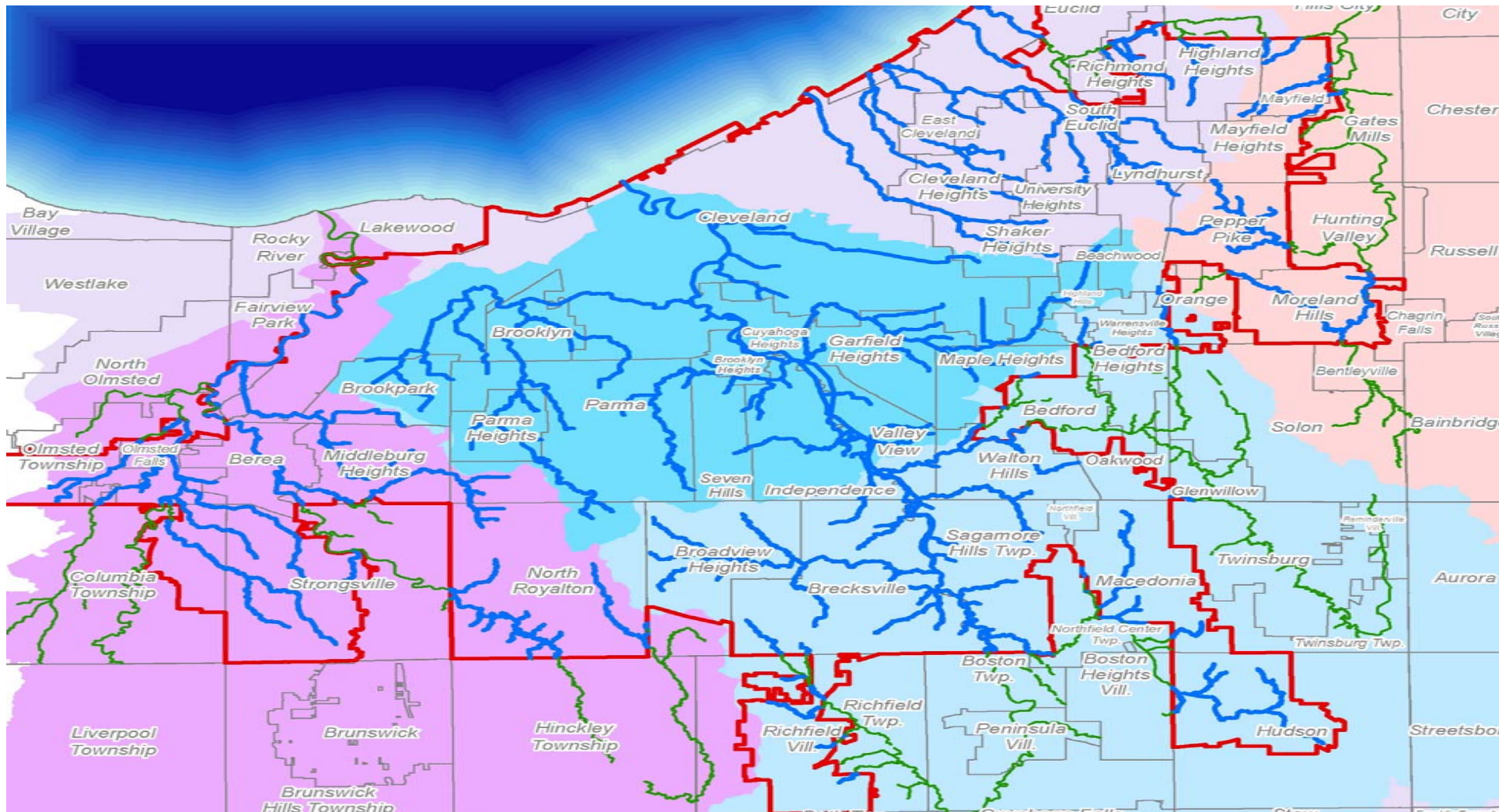
Project Name and Location	RFP(1)	Design(2)	Award of Construction	Construction Est.(\$M)
Stormwater				
Rocky River				
Rocky River SWMP Study	02-Mar-17	15-Jun-17	N/A	N/A
Emerald Parkway Culvert Repair	05-Jan-17 A	06-Apr-17	N/A	\$2.8
Baldwin Creek Stabilization BD00253, BD00259, BD00257	06-Oct-16 A	16-Feb-17 A	N/A	\$1.4
Debris Rock Modifications and Bank stabilization AC00018 & AC00123	N/A	N/A	1st Quarter 2021	\$0.3
North Royalton Culvert Repair BD00296	4th Quarter 2018	1st Quarter 2019	N/A	\$1.4

<http://www.neorsd.org/communitystormwaterresources.php>



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Stormwater Master Plan



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Stormwater Master Plans

Goals and Objectives

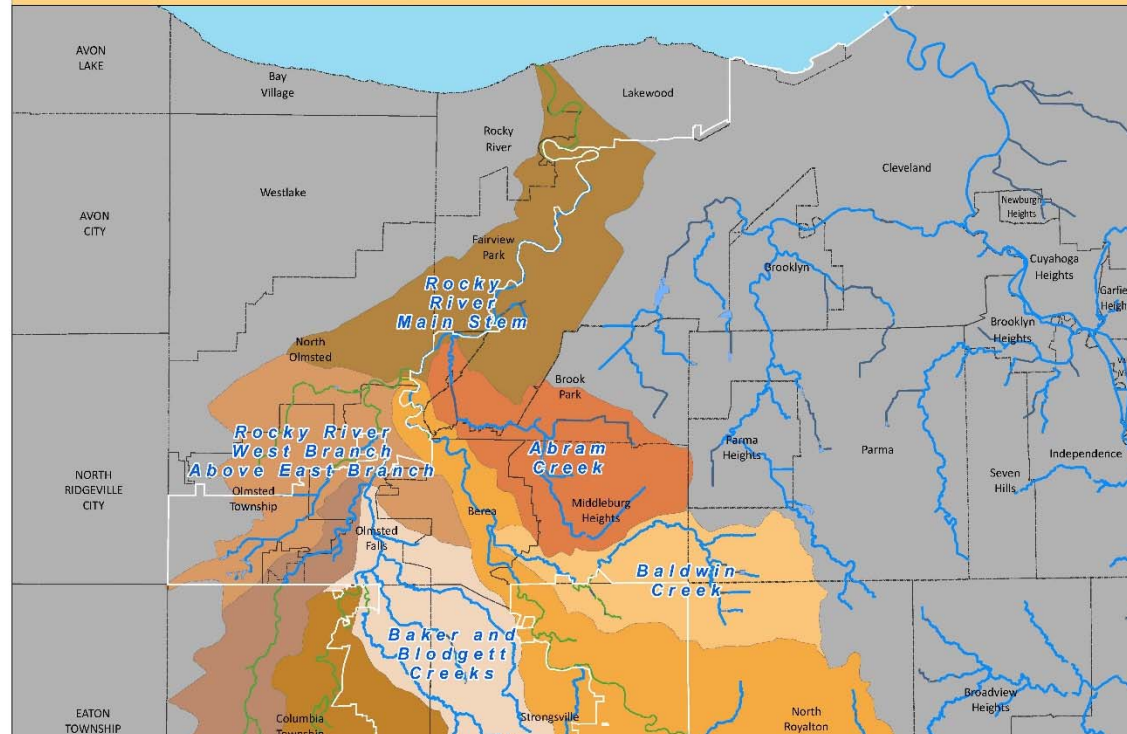
- Multi-objective, watershed approach to developing solutions for broad suite of problems
- Prioritized list of construction and maintenance projects at the Watershed-level and Program-level
- Identification of early action projects



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Rocky River Watershed



Cuyahoga River South – Awarded

Cuyahoga River North – Awarded

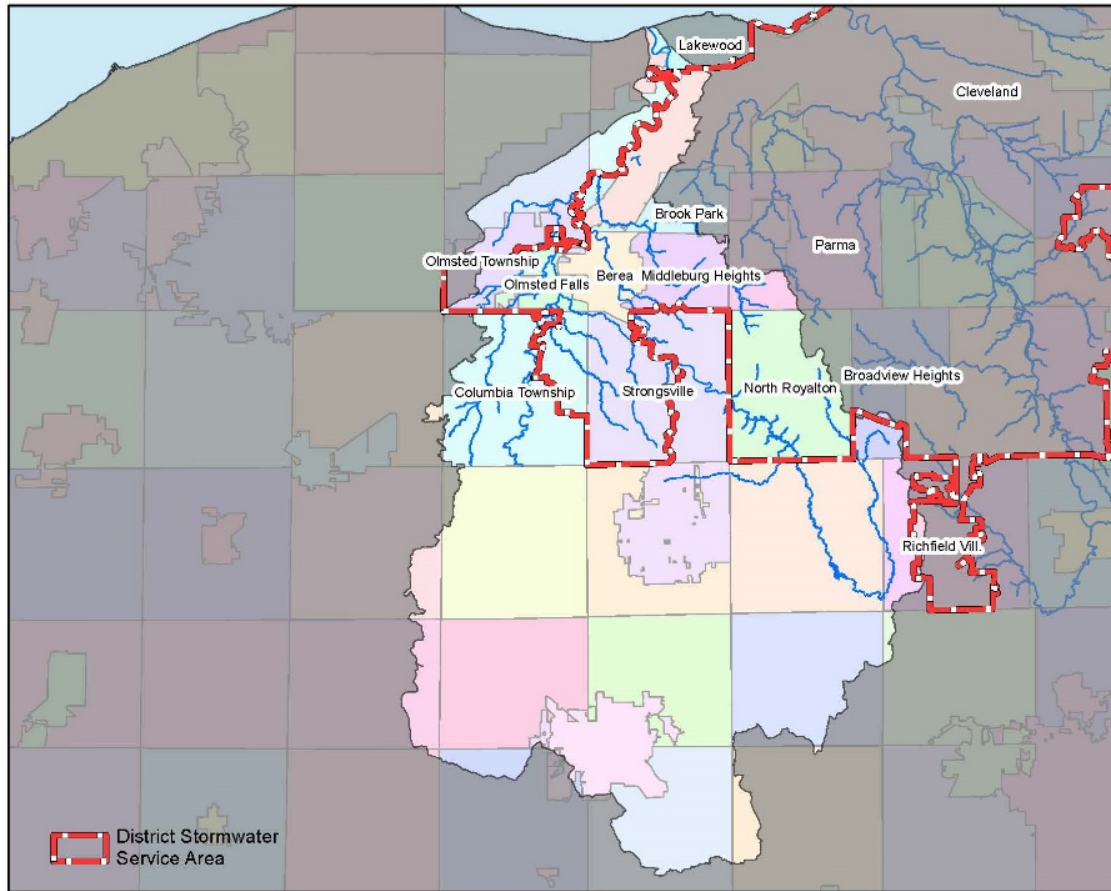
Rocky River - RFP Released Feb. 21, 2017

Chagrin River & Lake Erie Direct Tributaries - RFP Release
3rd Qtr 2018

Stormwater Master Plan

Rocky River – Regional Stormwater System Assets

Rocky River Stormwater Master Plan by Community



Rocky River (inside SWSA)

Asset Class Type	Count	Length (Miles)
Stream	445	81.8
Crossing	321	
Culverted Stream	28	5.7
Basin	17	
Major Structure	5	
Total	816	87.5

Rocky River (outside SWSA)

Asset Class Type	Count	Length (Miles)
Stream	248	67.8
Crossing	133	
Culverted Stream	3	0.3
Basin	2	
Major Structure	0	
Total	386	68.1

Stormwater Master Plan

Rocky River – Schedule

- Proposals due March 28, 2017
- Award anticipated July 2017
 - [http://www.qsisphere.com/LowerMcCleary/tour.html?startscene=53&startactions=lookat\(-315.1,4.24,140,0,0\);](http://www.qsisphere.com/LowerMcCleary/tour.html?startscene=53&startactions=lookat(-315.1,4.24,140,0,0);)
- Local System SWMP



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Stormwater Master Plan

Rocky River – Communication

The Watershed Team Leader will contact you to inform you of any work in the watershed and serves as the point of contact between the communities and the District.

Jeff Jowett

Watershed Team Leader

216-881-6600 Ext. 6881

jowettj@neorsd.org



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Chippewa Creek — Broadview Heights

Stormwater Inspection and Maintenance



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Stormwater Inspection & Maintenance

All actions begin with an Inspection

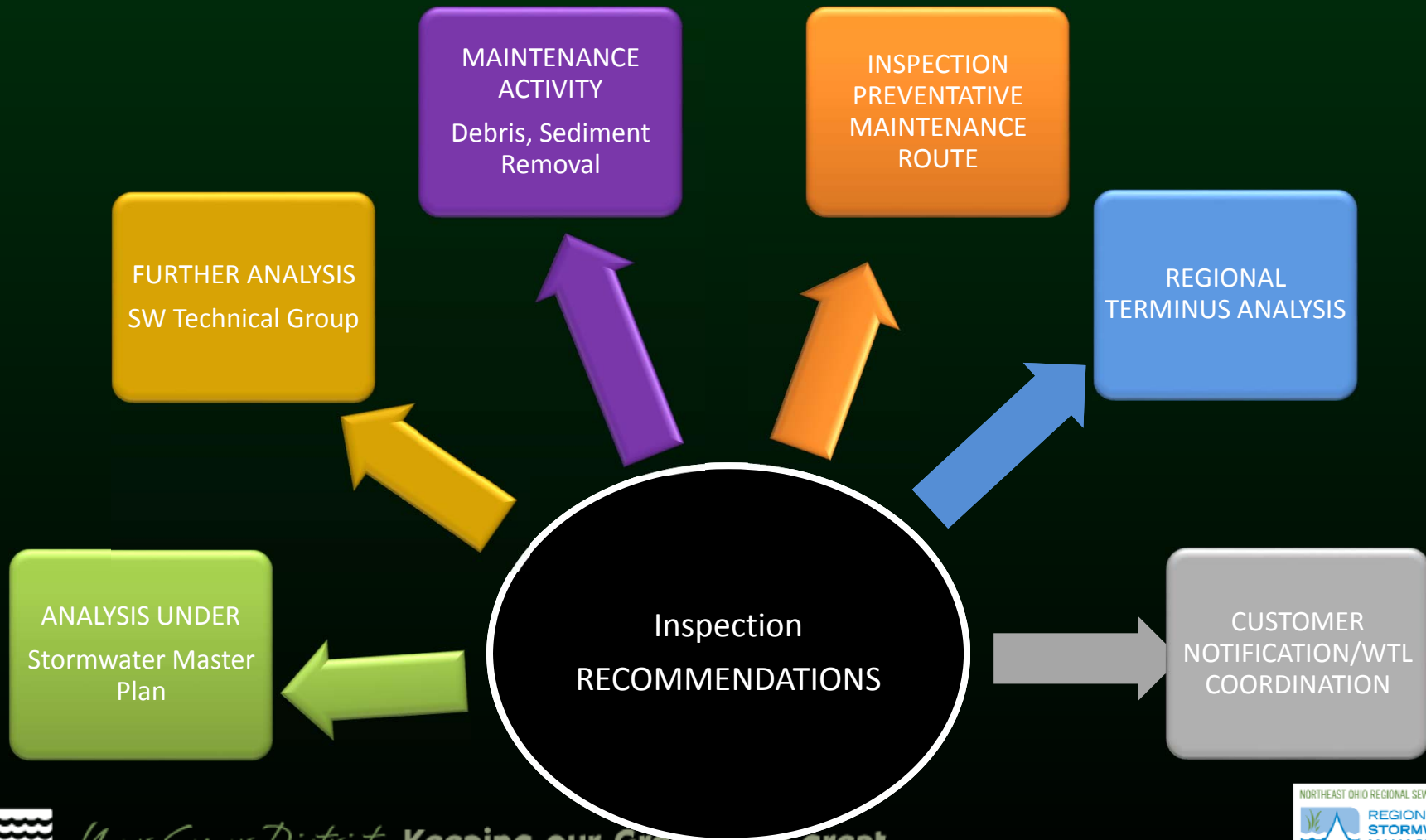


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Stormwater Inspection & Maintenance

Inspection Recommendations



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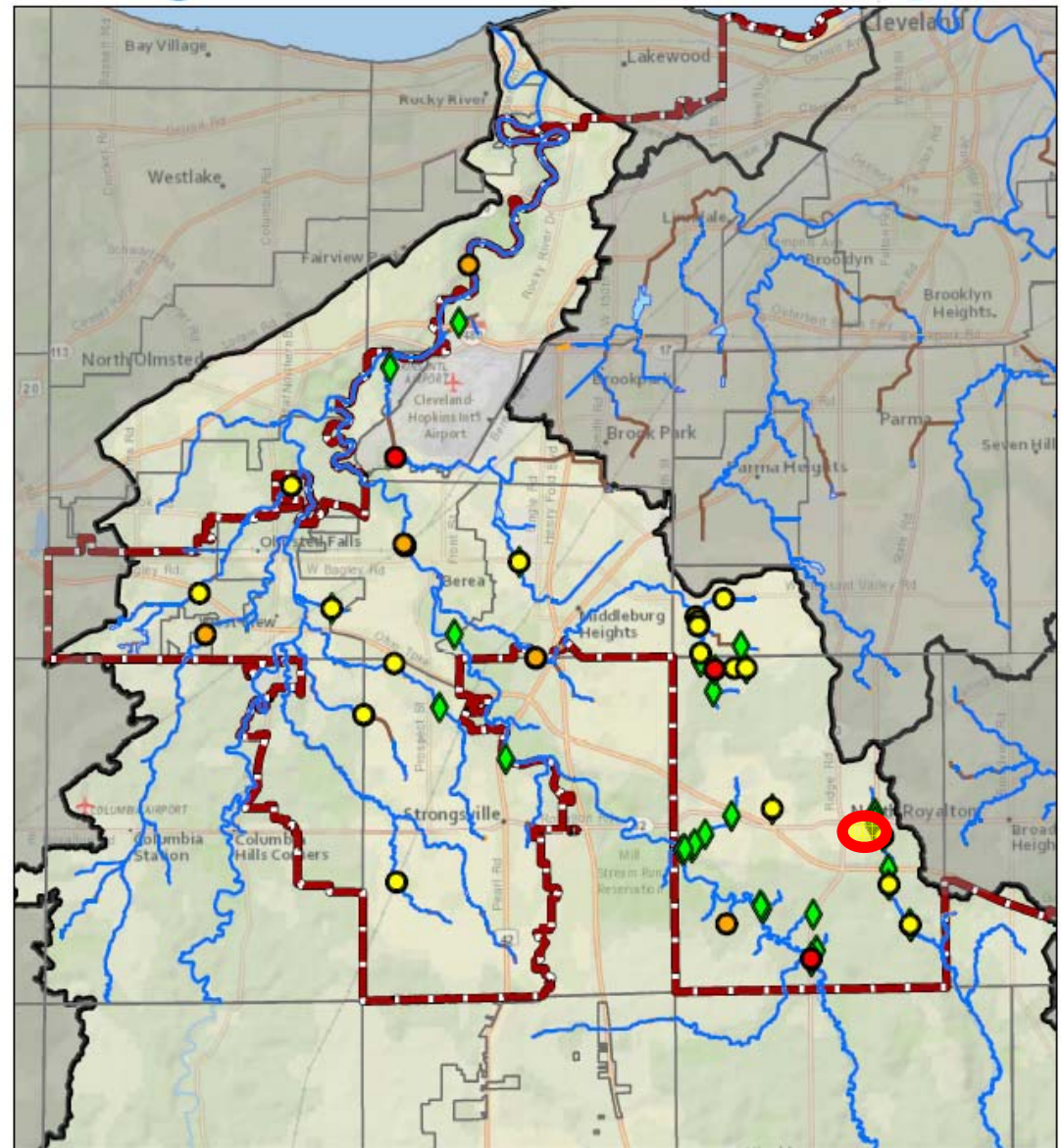


Stormwater Inspections

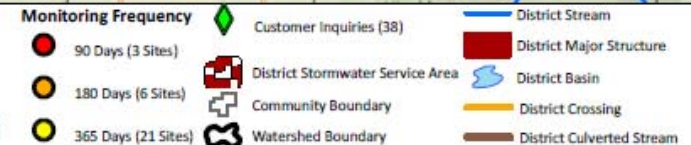
Rocky River: 2016 Summary

38 Customer Inquiries
(132 in Service Area)

30 sites currently
being monitored
(190 in Service Area)



**Rocky River Watershed
Monitoring Sites and
2016 Customer Inquiries**



Stormwater Inspections

Rocky River: East Branch



Asset #: RE00625
North Royalton
SWAN Lake Blvd
BTU: Residential
Building

Structural Integrity:

- Failure bank protection
- Exposed bank

Recommendation:

- ✓ SWMP
- ✓ Monitoring

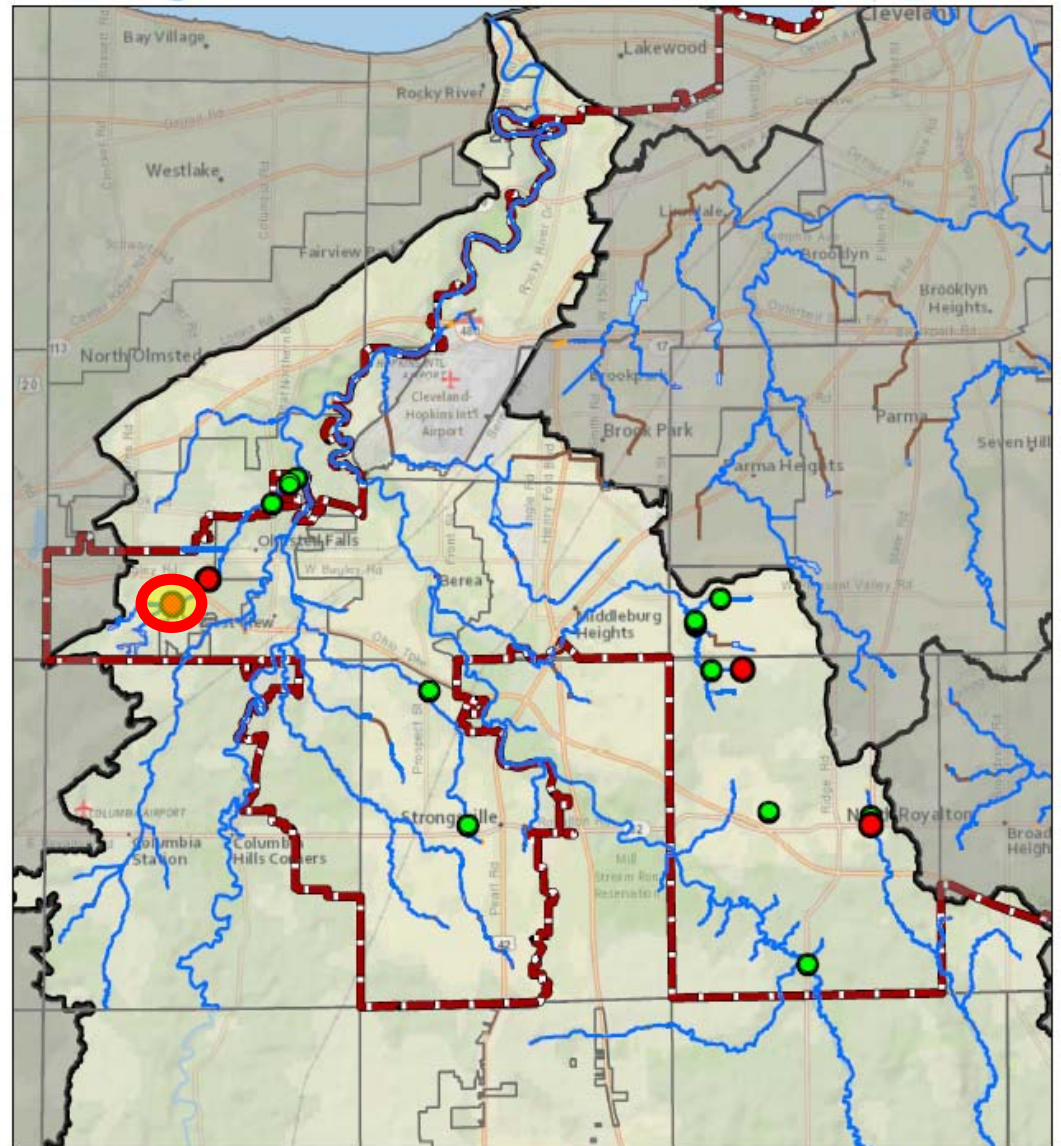
NEORSD Condition Rating	Criticality	BRE Score
3	6	18

Stormwater Inspection: Further Analysis/SW Master Plan

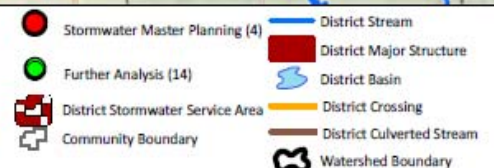
Rocky River: 2016 Summary

4 Assets recommended for
SW Master Plan
(**37** in Service Area)

14 assets recommended
for Further Analysis
(**120** in Service Area)

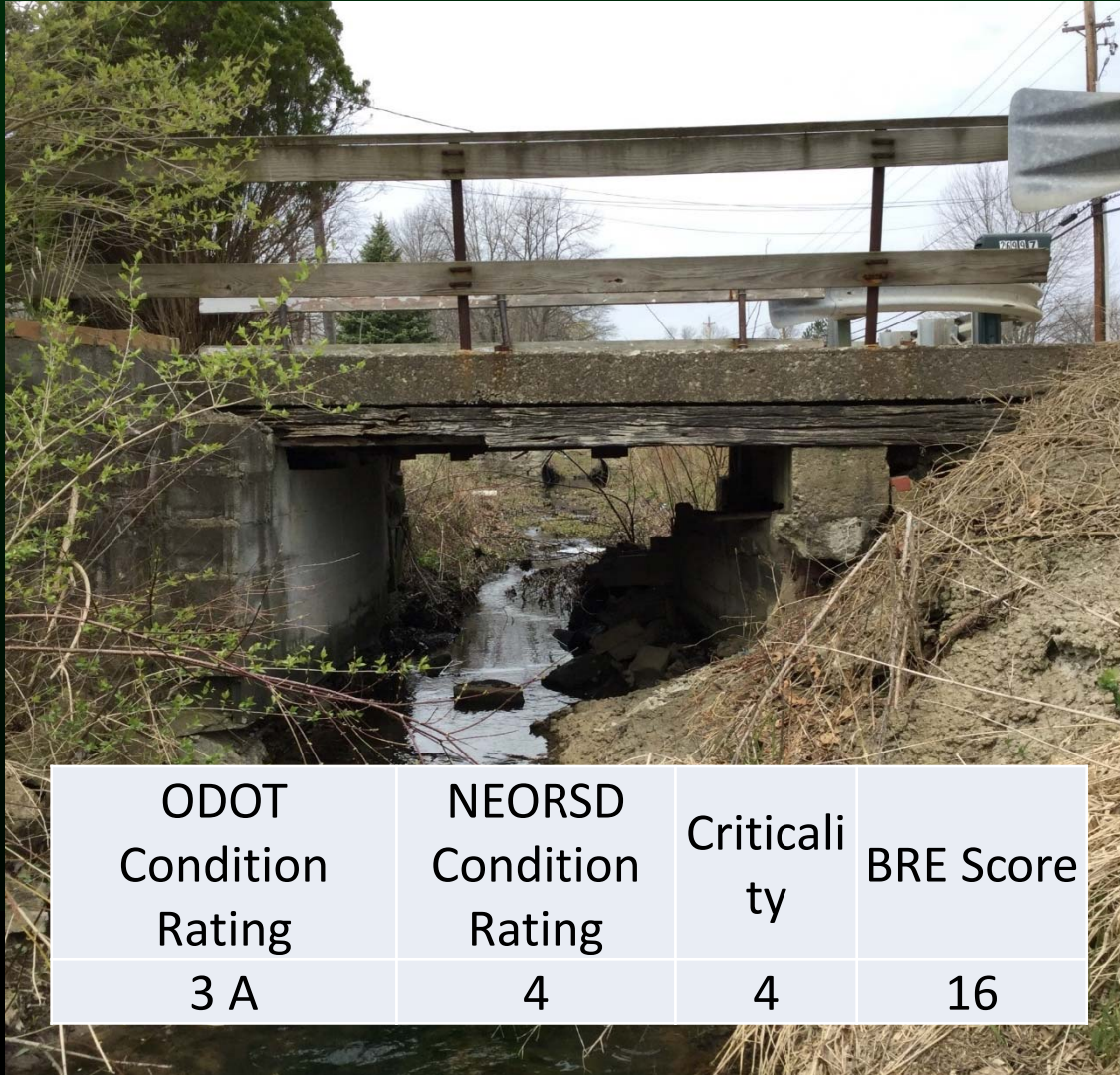


Rocky River Watershed
Stormwater Master Planning
and Further Analysis Recommendations



Stormwater Inspection: Further Analysis/SW Master Plan

Rocky River: Minnie Creek



Asset ID: MN00037
Olmsted Township
Schady Road
BTU: Driveway

Structural Integrity:

- Abutment failure
- Exposed rebar throughout
- Footer scoured away

Recommendation:

- ✓ Notify Owner
- ✓ SWMP (assess hydraulic performance of all driveways)
- ✓ Monitor

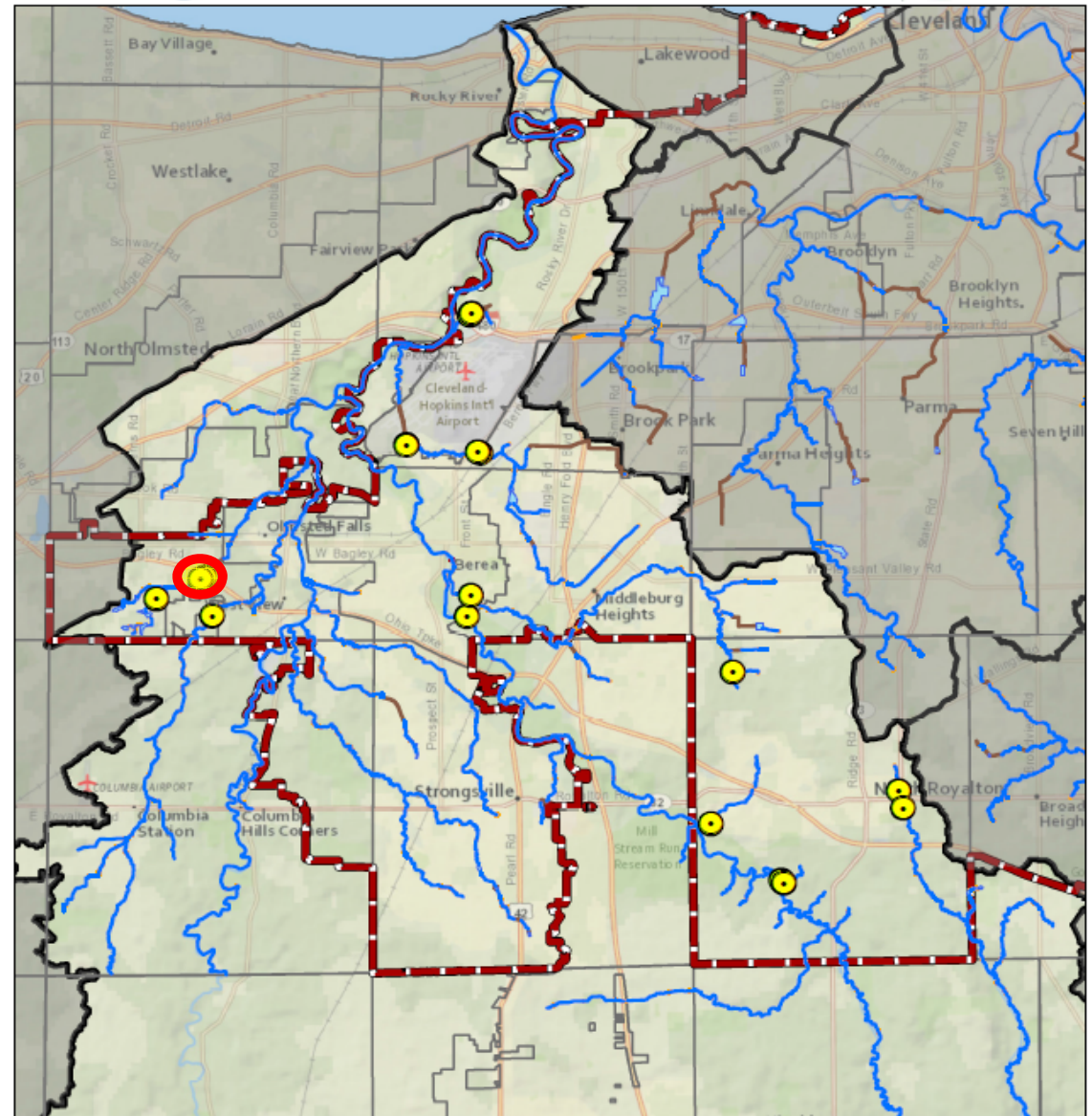
ODOT Condition Rating	NEORSD Condition Rating	Criticality	BRE Score
3 A	4	4	16

Stormwater Maintenance

Rocky River: 2016 Summary

18 Maintenance projects
(112 in Service Area)

564 CY sediment and debris removed
(3,646 CY in Service Area)



Rocky River Watershed
2016 Maintenance Projects



Stormwater Maintenance

Rocky River: Minnie Creek

Asset ID: MN00017

Community: Olmsted Township

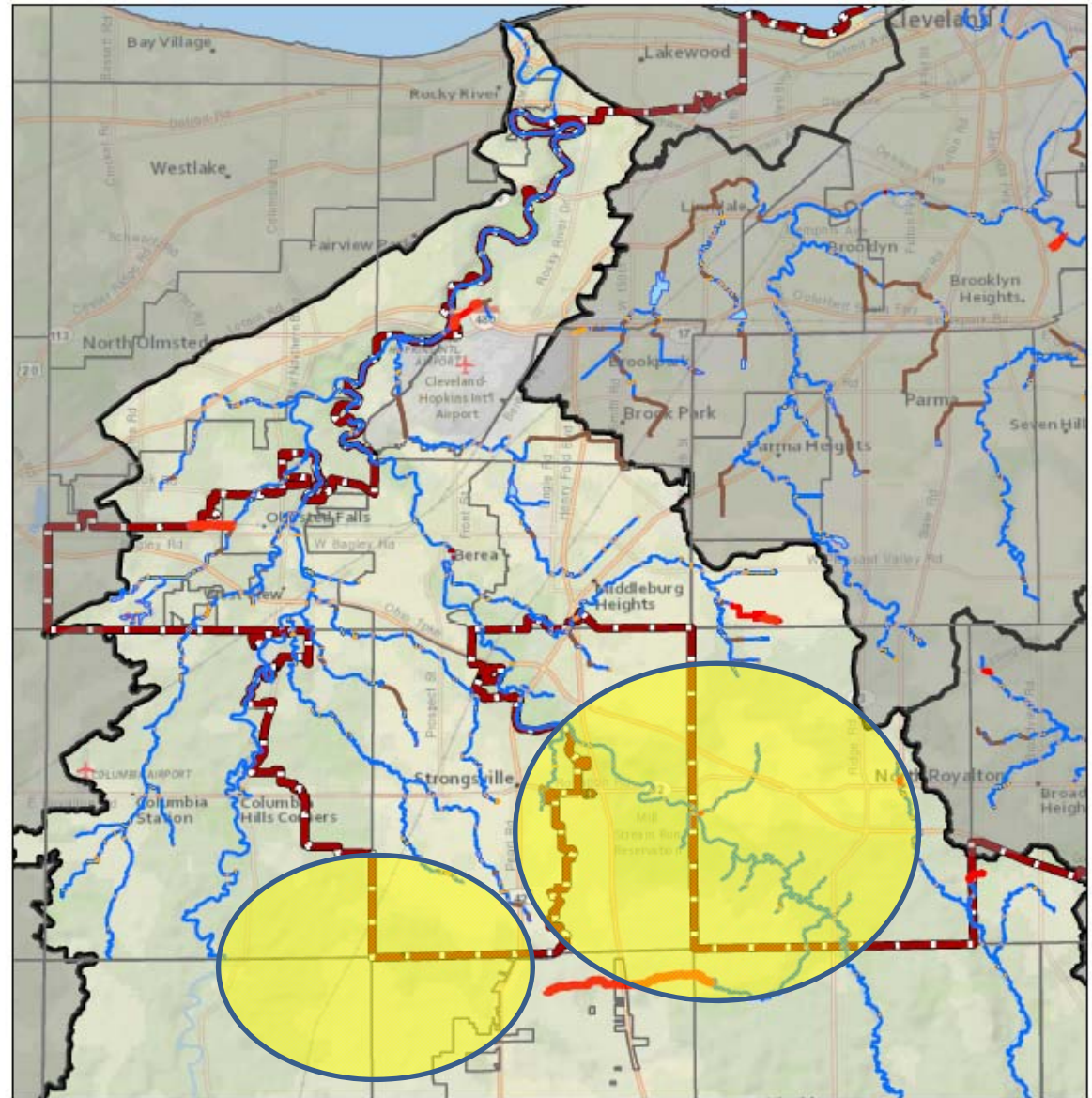
Maintenance Project: Sediment Removal - 80 CY



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Regional Stormwater System New Assets (Mostly Terminus Extensions)

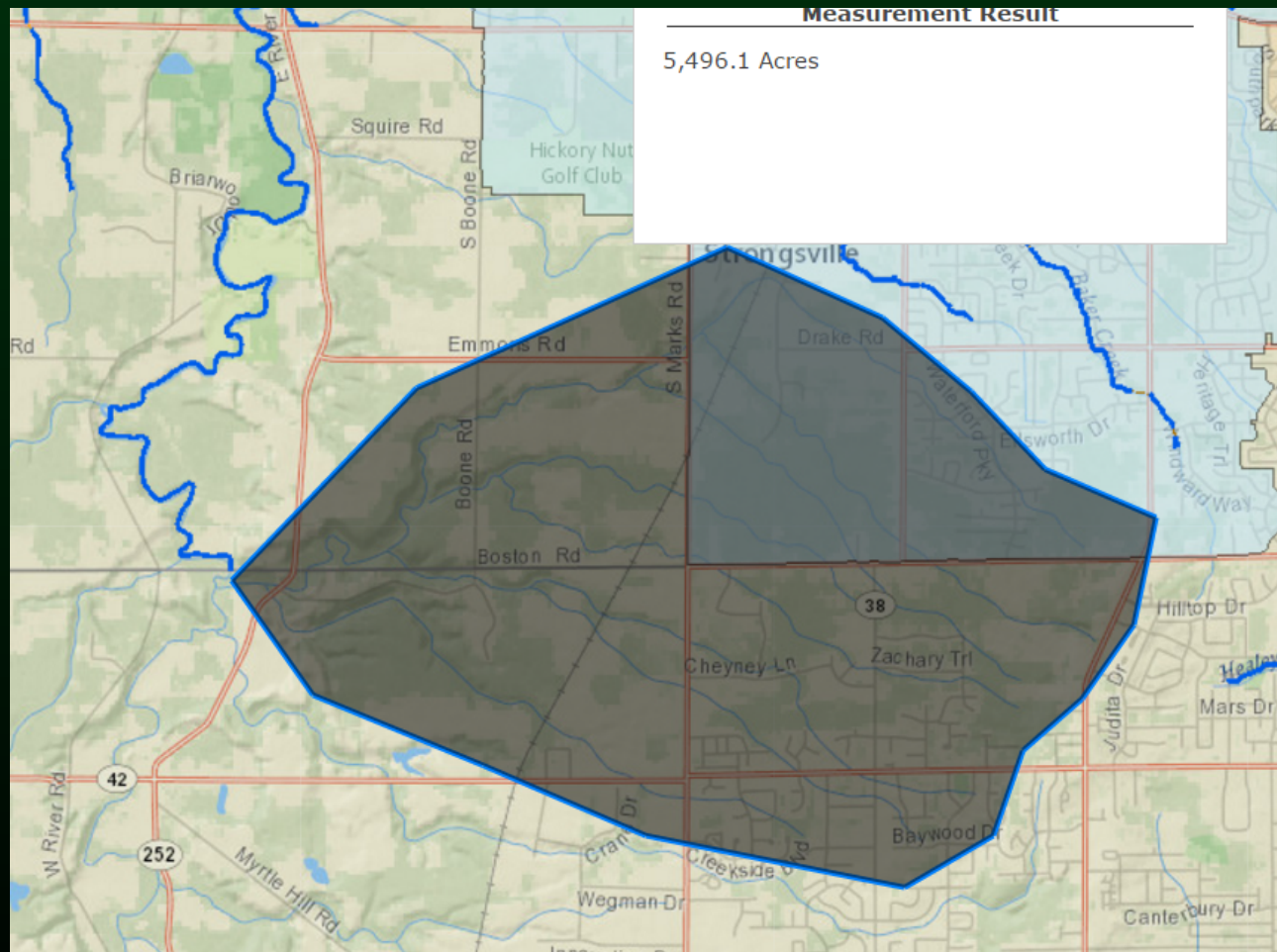


Rocky River Watershed
New Regional Stormwater System
Assets Added in 2016



Regional Stormwater System

Rocky River: West Branch



North Royalton

Area of interest will likely become a new subwatershed (DA > 3 sq miles)

Will be defined during Rocky River SWMP

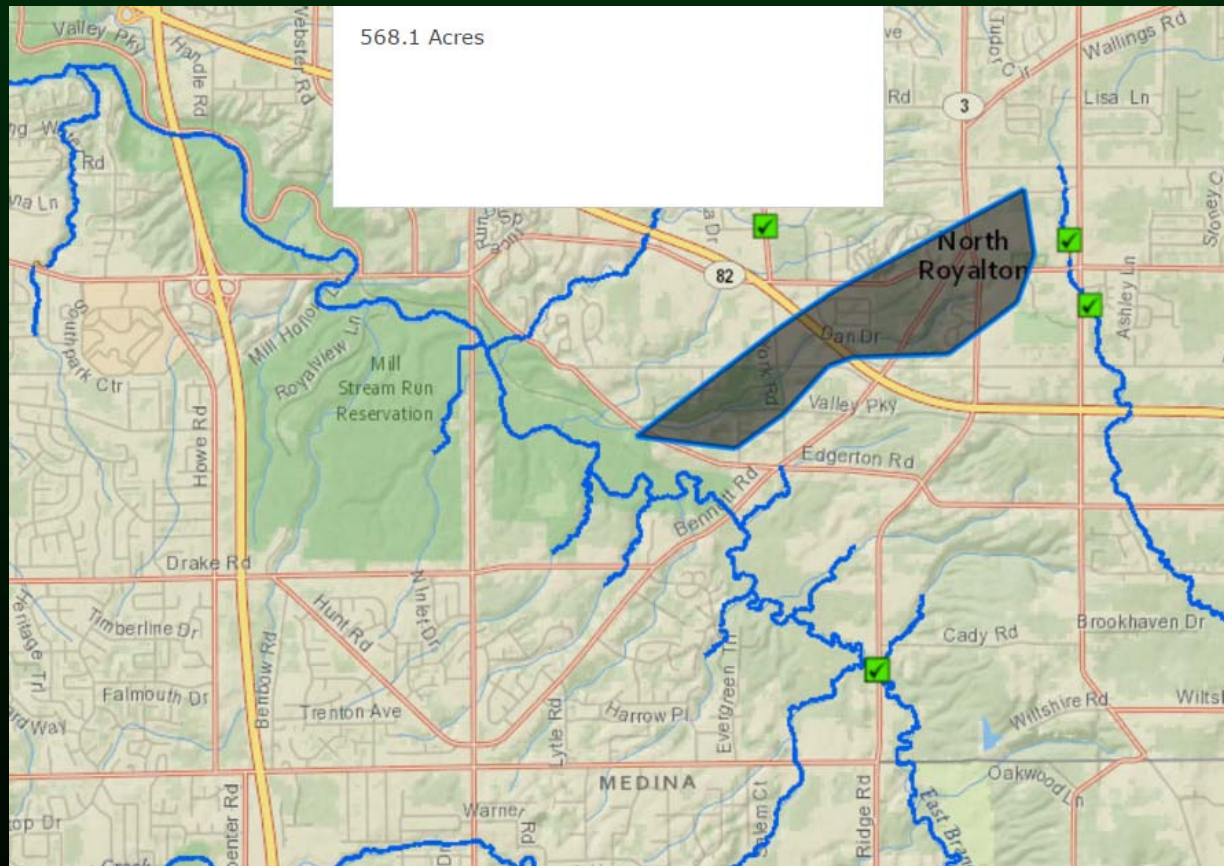


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Regional Stormwater System

Rocky River: East Branch



North Royalton

Several small tributaries will likely be part of RSS

Will be defined during Rocky River SWMP



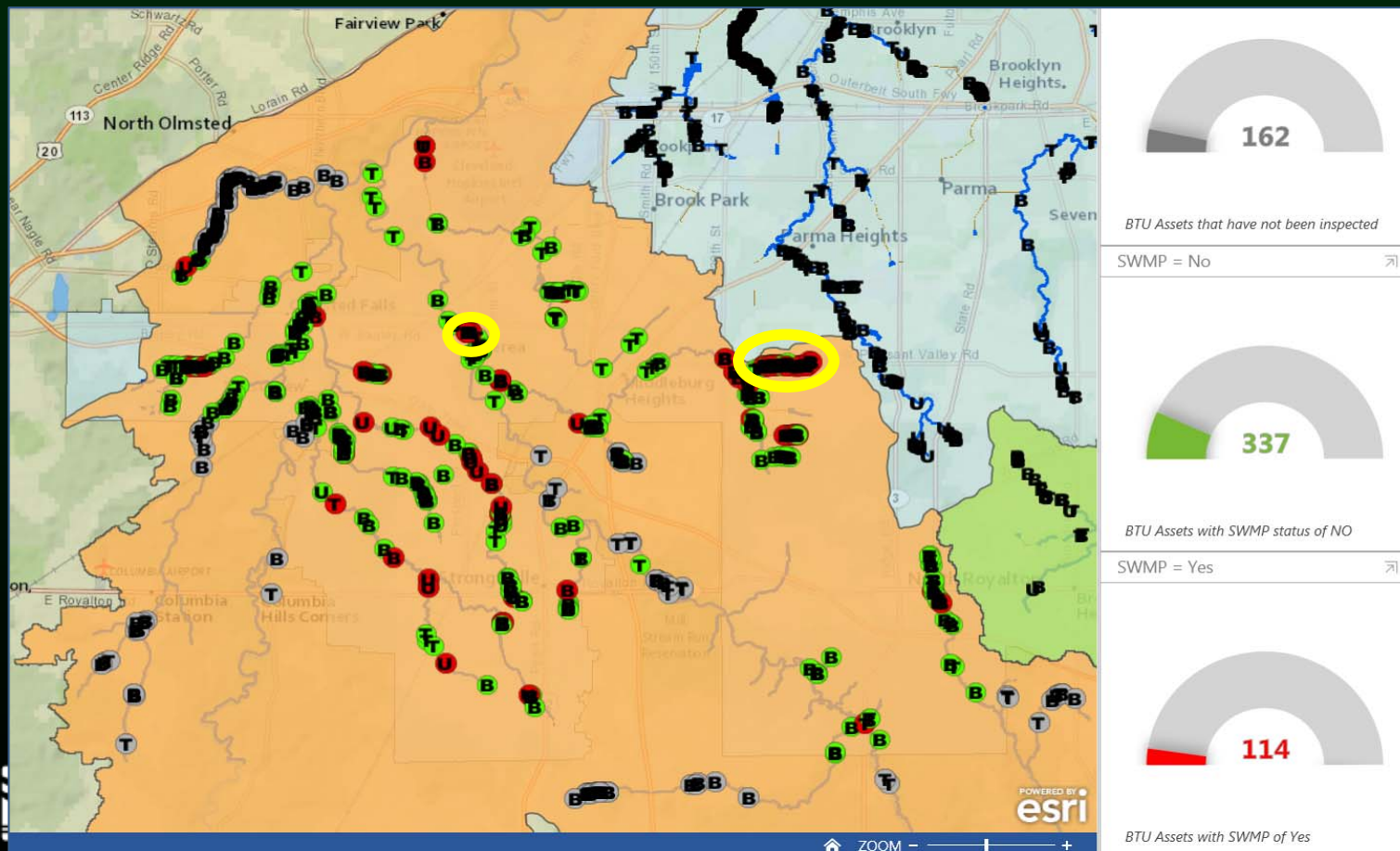
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Potentially Threatened Infrastructure: Buildings, Transportation and Utilities (BTU)

114 BTUs (out of 651) along streams in Rocky River are recommended for SW Master Plan assessment

360 BTUs (out of 1,979) in Service Area recommended to date

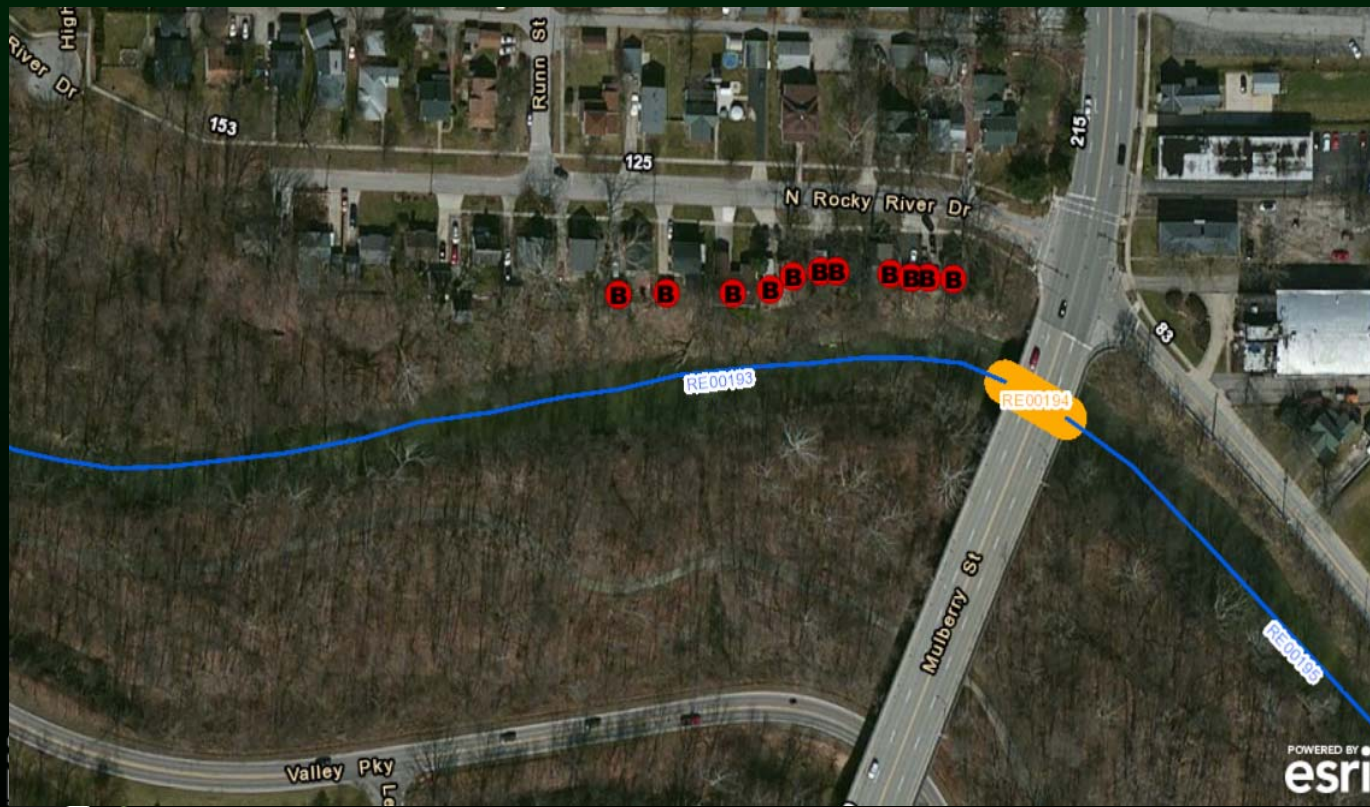


Threatened Infrastructure: BTUs

Rocky River: East Branch

Community: Berea

BTUs: Buildings recommended for SW Master Plan

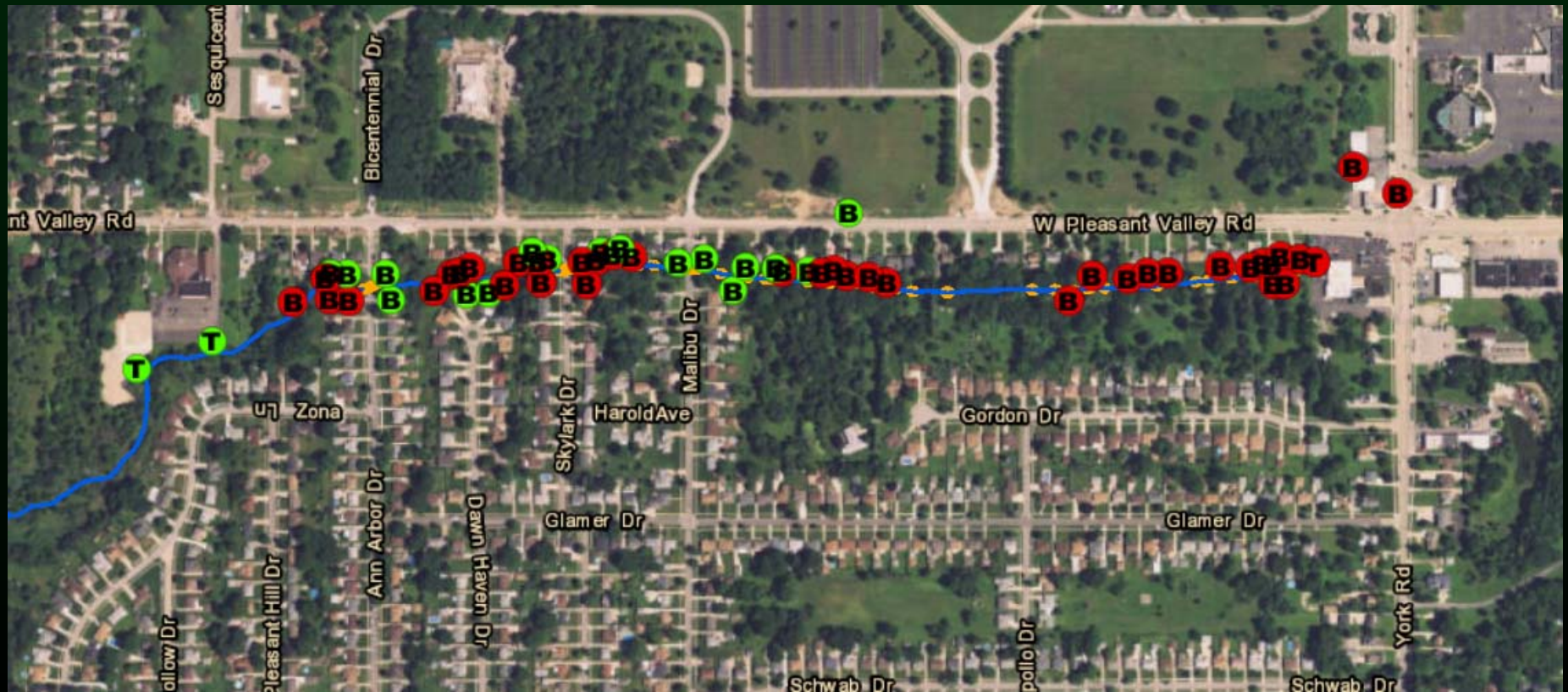


Threatened Infrastructure: BTUs

Rocky River: Baldwin Creek

Community: Parma

BTUs: Buildings and Detached Garages recommended for SW Master Plan



Stormwater Inspection & Maintenance 2017 Agenda

- Continuing to collect RSS data:
 - Record drawings
 - Responsible party infrastructure: culverted streams, bridges, culverts, basins, major structures
 - Gather historical inspections reports
- **Future data request to be made to the community and individual agencies**



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Stormwater Inspection & Maintenance 2017 Agenda

- Planning to pilot new maintenance project types:
 - Basin Dredging
 - Structural Repair
 - Streambank Stabilization (small scale/low cost/low risk)
- Looking for potential locations
- **Contact SWIM representative (Mark Link, George Remias) with ideas**



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A photograph showing a flooded industrial area. In the foreground, murky brown floodwater covers the ground. In the middle ground, several large, light blue and white industrial trailers are partially submerged. To the right, a long, single-story brick building with a dark roof is visible. A utility pole with power lines stands in the background. The sky is overcast and grey.

Questions

Independence, OH



Community Cost-Share



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Community Cost-Share

- \$9,946,579.37 available across communities
- 32 approved projects, totaling \$3,041,990.58
- 6 completed projects, totaling \$199,529.74
- Vendor Registration
http://www.neorsd.org/isupplier_homepage.php
- Policy Update



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Community Cost-Share

Policy Update Example – Shaker Heights

- Allocation Agreement: Underground Stormwater Detention
- Construction Costs \$750,000
 - City to apply for reimbursement annually over seven (7) years



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Community Cost-Share

Policy Update Example - Parma

- Allocation Agreement: Equipment Purchase
 - Jet/Vacuum Machine: \$550,000
 - Mechanical Broom Sweeper: \$281,517
 - Maintenance: \$40,000 x 5 years = \$ 325,000
- Total = \$1,075,000
- Application Approved January
- Apply for \$215,000/year reimbursement as funds accrue



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Community Cost-Share

Policy Update

Allocate CCS funds to a project before funds have accumulated in the Member Community's CCS account

1. Submit CCS application for the project to WTL
2. District reviews application for compliance with CCS Policy
3. Execute CCS project agreement with District for allocation of CCS funds
4. Implement project
5. Submit reimbursement request to District for CCS funds
6. Repeat step 5 until the Member Community has requested and received the total amount needed for project



Questions



Your Sewer District **Keeping our Great Lake great.**



Title V Requires Phase II Support Services for Certain MCM's

- MCM #1: Public Education and Outreach
- MCM #2: Public Participation and Involvement
- MCM #3: Illicit Discharge Detection and Elimination
- MCM #6: Pollution Prevention/Good Housekeeping for Municipal Operations



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Providing Services with Established Providers

- Cuyahoga County Board of Health
 - 48 communities offered services
 - 1 community has declined
- Cuyahoga Soil & Water Conservation District
 - 48 communities offered services
 - 1 community has declined
- Lorain County Stormwater Management District
 - Columbia Township
- Summit County Combined General Health District
 - 5 out of 5 communities
- Summit Soil & Water Conservation District
 - 5 out of 5 communities

Title V – SW Mgmt Plan Review

Recurring Issues/Comments

- Lack of detail on SCM outlet structure to guard against “leaks”
 - Ensure wall penetrations, and weir wall inserts/seams are watertight
- SCM inspection & maintenance plans
 - Lack of detail to define dredging needs to maintain function of the SCM
- Considerations to maximize future stormwater fee credits



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Title V – SW Mgmt Plan Review

Recurring Issues/Comments

- Incorrect WQv calcs for redevelopment
 - Calculate minimum required WQv for the site as a whole
 - SCMs must be designed for the WQv of its watershed - must meet or exceed the minimum required WQv
- Inaccurate drainage area delineations and curve number interpretations
 - Need to account for offsite run-on



Your Sewer District Keeping our Great Lake great.





Questions

Highland Park Golf Course Stream Restoration, Highland Hills

What's Next...

- WAC Meetings
 - Lake Erie/Chagrin River: March 13
 - Cuyahoga River – North: March 15
 - Cuyahoga River – South: March 20
 - Rocky River Watershed: March 22
- Next Round in October 2017

Questions

Jeff Jowett

Watershed Team Leader

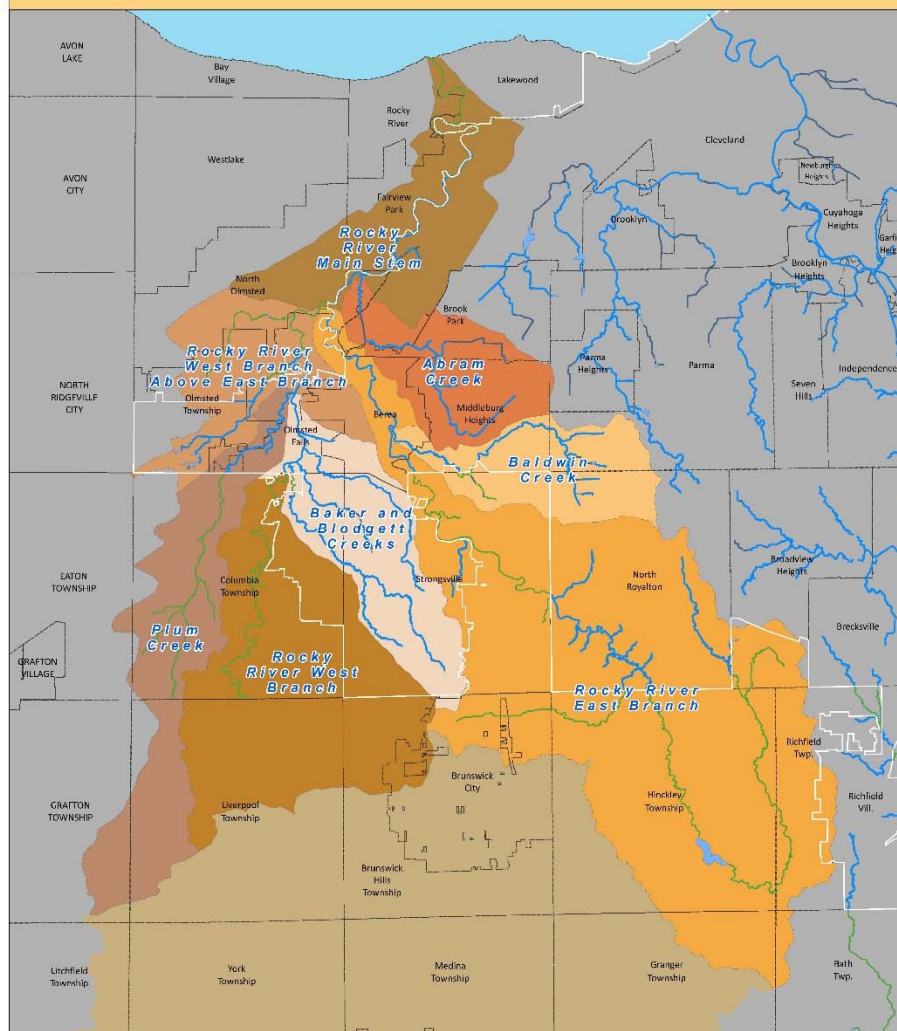
216-881-6600 Ext. 6881

jowettj@neorsd.org

Stormwater Program: Community Resources

<http://www.neorsd.org/communitystormwaterresources.php>

Rocky River Watershed



**Northeast Ohio
Regional Sewer District**

1:58,912



Coordinate System : Ohio State Plane North
Datum: NAD 1983 , NAVD 1988
Projection: Lambert Conformal Conic
Sources: NEORS D GIS

Map Created: March 2017

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- Regional Stormwater System in NEORS D Service Area
- Regional Stormwater System not in NEORS D Service Area
- Service Area
- Community
- District Culverted Stream