

*Watershed Advisory Committee
Rocky River Watershed
March 10, 2020*

NORTHEAST OHIO REGIONAL SEWER DISTRICT



REGIONAL
STORMWATER
MANAGEMENT
PROGRAM

Agenda

- Sewer District Updates
- Special Feature – CCS Reimbursements
- Stormwater Master Plan
- Stormwater Inspection and Maintenance
- Stormwater Design & Construction
- Looking Ahead

Program Highlights

Matt Scharver, Deputy Director of Watershed
Programs

Community Cost-Share: 2020

- CCS Funds Balance (1/31/2020) \$ 26,692,552
- 53 projects w/ executed agreement \$ 7,273,159
- 24 projects w/ agreements in progress \$ 2,608,062
- CCS Funds available to Member Communities \$ 16,811,331
- 19 approved allocation agreements \$ 9,378,822

42 of 55 Member Communities currently participating

54 of 55 Member Communities have participated

“Year-One” Funds

Community Cost Share

Title V and the CCS Policy states that communities:

- Must apply for Year One funds by July 1 of Year Five,
 - Unapplied funds will be returned to the RSMP general fund.
-
- Why?
 - Communities can only accumulate a maximum of 5 years of funds in their account.
 - Encourage communities to use their funds.

“Year-One” “2016” Funds

Community Cost Share

- This Year’s “Year One” - January 2013 through December 31, 2016.
 - Litigation temporarily paused the RSMP from September 26, 2013 to December 2, 2015.
 - Expiring funds will be discussed based on the year they were earned, so next year they will be referred to as “2017” funds, rather than “Year One” funds.
- Communities that are at risk of losing funds have had conversations with their WTL. Only a one community still fall in this category.

“Year-One” Funds

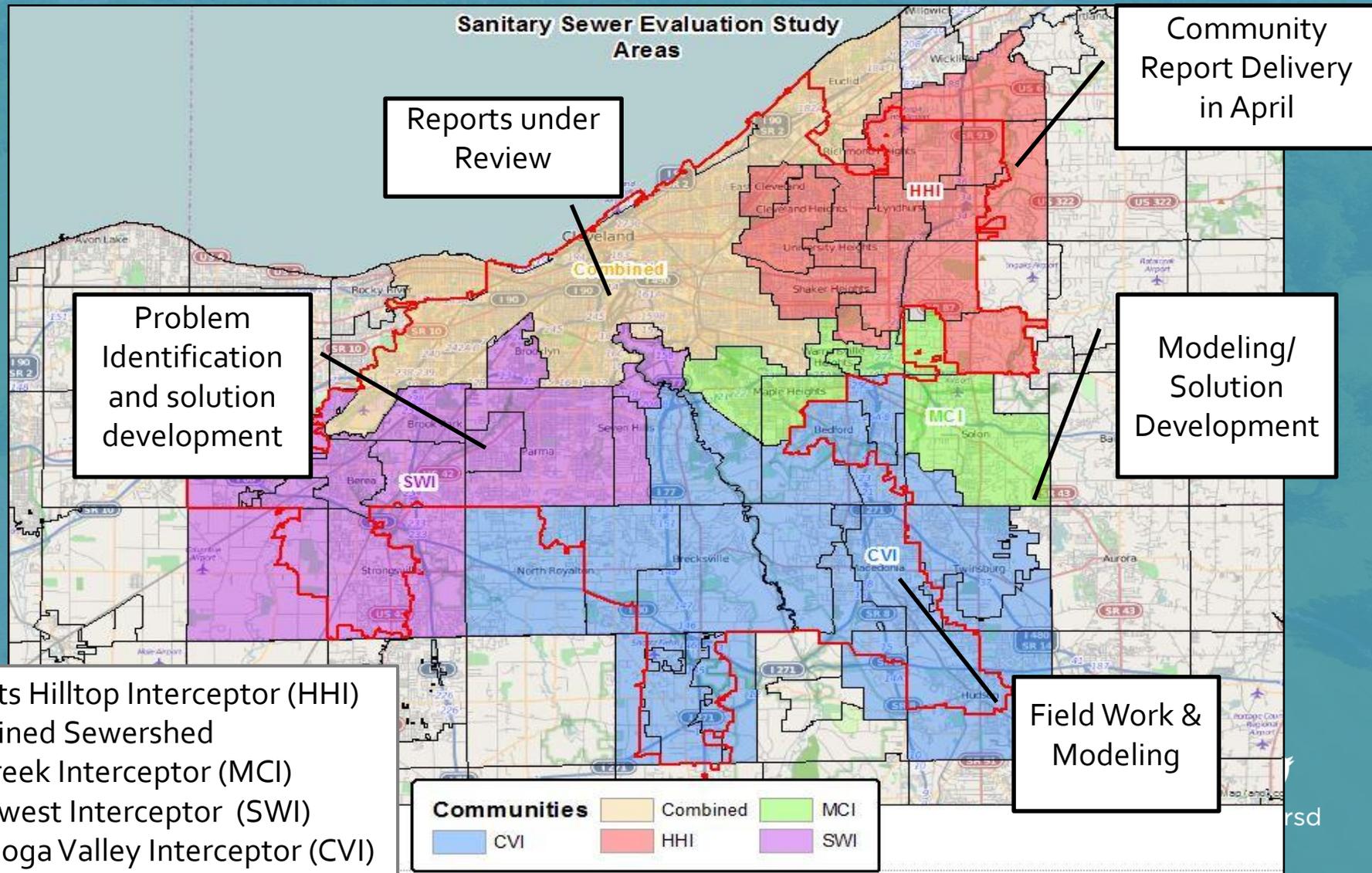
Community Cost Share

- What does this mean going forward?

Expiring funds to be applied for, collected during the following dates	Corresponding “Year Five,” apply by date
<i>January 1, 2013- December 31, 2016</i>	July 1, 2020
<i>January 1, 2017- December 31, 2017</i>	July 1, 2021
<i>January 1, 2018- December 31, 2018</i>	July 1, 2022
<i>January 1, 2019- December 31, 2019</i>	July 1, 2023

- District will give your community updates if you are at risk of loosing your Funds.

Local Sewer System Evaluation Studies



Member Community Infrastructure Program

- Grant funding for local sanitary sewer rehabilitation targeted at reducing basement backups and human health issues
- LSSES early action project alternatives for the Southwest & Cuyahoga Valley Interceptor Area
- RFP will be released March 5 - due on May 11
- MCIP Workshop March 13 (8:30 – 11:30 am) at the Watershed Stewardship Center in Parma

Cost-Saving Programs

- *Summer Sprinkling*
 - *Average winter consumption*
- *Crisis Assistance*
 - *\$300 sewer credit*
 - *Experienced financial hardship within last 6 months*

Cost-saving Programs

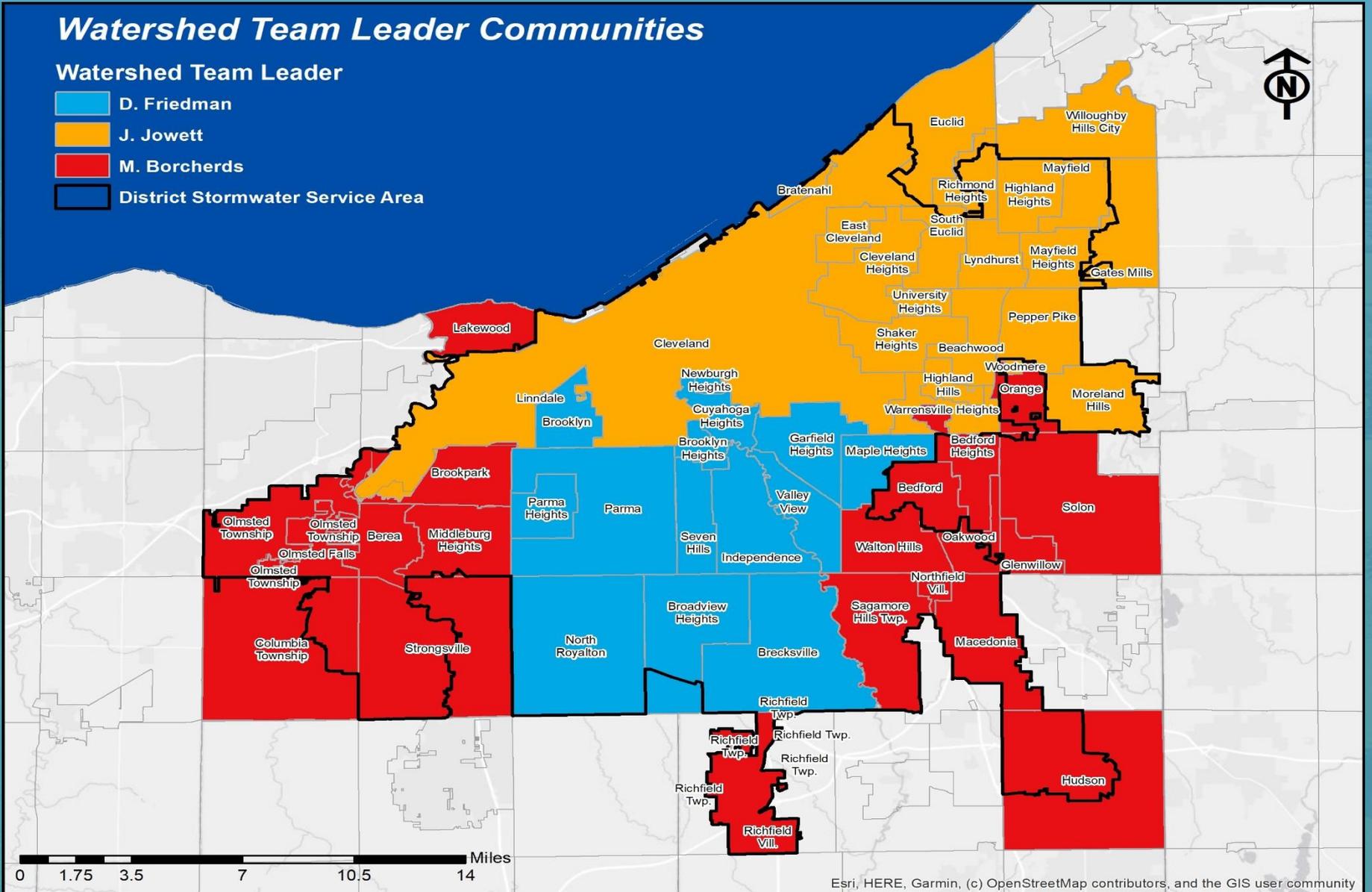
- *Homestead*
 - 65 and older *or* permanently disabled
 - Household income must not exceed \$33,500
- *Affordability*
 - Annual income is at or below 200% of the poverty level

Customer Service (216) 881-8247

Watershed Team Leader Communities

Watershed Team Leader

- D. Friedman
- J. Jowett
- M. Borchers
- District Stormwater Service Area



0 1.75 3.5 7 10.5 14 Miles

Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

Questions



Special Feature

Community Cost-Share - Reimbursement Requests

TIPS

- ✓ Review the reimbursement request requirements prior to starting the project to ensure collection of the proper documents as the project progresses
- ✓ Reimbursement Requests can be submitted as the project progresses, it is not necessary to wait for project completion to submit
- ✓ Email the submission to the Grant Programs Administrator

Linda Mayer

MayerL@neorsd.org

Special Feature

Community Cost-Share - Reimbursement Requests

A complete
Reimbursement Request
submission will include:

- ✓ Reimbursement Request
Cover Sheet



Community Cost-Share Program
Reimbursement Request

Community Cost-Share Program REIMBURSEMENT REQUEST - COVER SHEET

Project Information

Member Community: _____

Project Title: _____

Amount Requested: _____

P.O. #: _____

Authorized Signature

I certify that the costs outlined in this reimbursement request have been incurred in accordance with the approved project proposal as set forth in the Community Cost-Share agreement document(s). Furthermore, I affirm that the information contained herein is, to the best of my knowledge and belief, accurate and complete.

Name (print or type): _____

Title: _____

Telephone Number: _____

Email Address: _____

Signature: _____

Date: _____

Rev 5/2016

Special Feature

Community Cost-Share - Reimbursement Requests

A complete Reimbursement Request submission will include:

- ✓ Reimbursement Request **Cover Sheet**
- ✓ Reimbursement Request **Deliverable Expense Worksheet w/supporting documentation**

*Community Cost-Share Program
Reimbursement Request*



**Community Cost-Share Program
REIMBURSEMENT REQUEST – DELIVERABLE EXPENSE WORKSHEET**

Member Community: _____

Project Title: _____

P.O. #: _____ Request Date: _____

Instructions:
Record all expenses and attach relevant procurement documentation, such as an itemized bill, receipt, invoice, time card along with proof of payment, such as a credit card receipt, cancelled check, and/or other documentation to substantiate purchase and compensation as deemed acceptable by the NEORSO.

Direct all Community Cost-Share reimbursement questions and reports to the Watershed Programs Department's, Watershed Funding Administrator, Linda Mayer, 440-253-2147, mayerl@neorsd.org.

PROJECT DELIVERABLE	Cost per Unit	Total Units	Total Cost	Details

Rev 5/2016

Special Feature

Community Cost-Share - Reimbursement Requests

A complete Reimbursement Request submission will include:

✓ Reimbursement Request

Cover Sheet

✓ Reimbursement Request

Deliverable Expense Worksheet
w/supporting documentation

✓ Reimbursement Request

Progress Report



*Community Cost-Share Program
Progress Report*

Community Cost-Share Program PROGRESS REPORT

Instructions:

Provide a summary of the accomplishments with respect to objectives, degree of completion based on the Project application, and any problems encountered. Progress Reports must be submitted within 30 days of written request from the Watershed Team Leader and as an attachment to all Reimbursement Requests. Progress Reports submitted with the Reimbursement Request reflect the accomplishments between Reimbursement Requests.

Project Information

Member Community: _____

Project Title: _____

Is the project complete? _____ If yes, is this the final reimbursement request? _____

Add additional page(s) to respond to the following questions:

- 1) Summarize progress and/or accomplishments during this reporting period as related to your project implementation schedule. (500 word maximum)
- 2) Difficulties and delays encountered during this reporting period. (500 word maximum)
- 3) Describe progress towards Project tasks. (500 word maximum)

Authorized Signature

I certify that the information in this Progress Report is accurate and reflects current status of the Project. Furthermore, I affirm that the information contained herein is, to the best of my knowledge and belief, accurate and complete.

Name (print or type): _____

Title: _____

Telephone Number: _____

Email Address: _____

Signature: _____

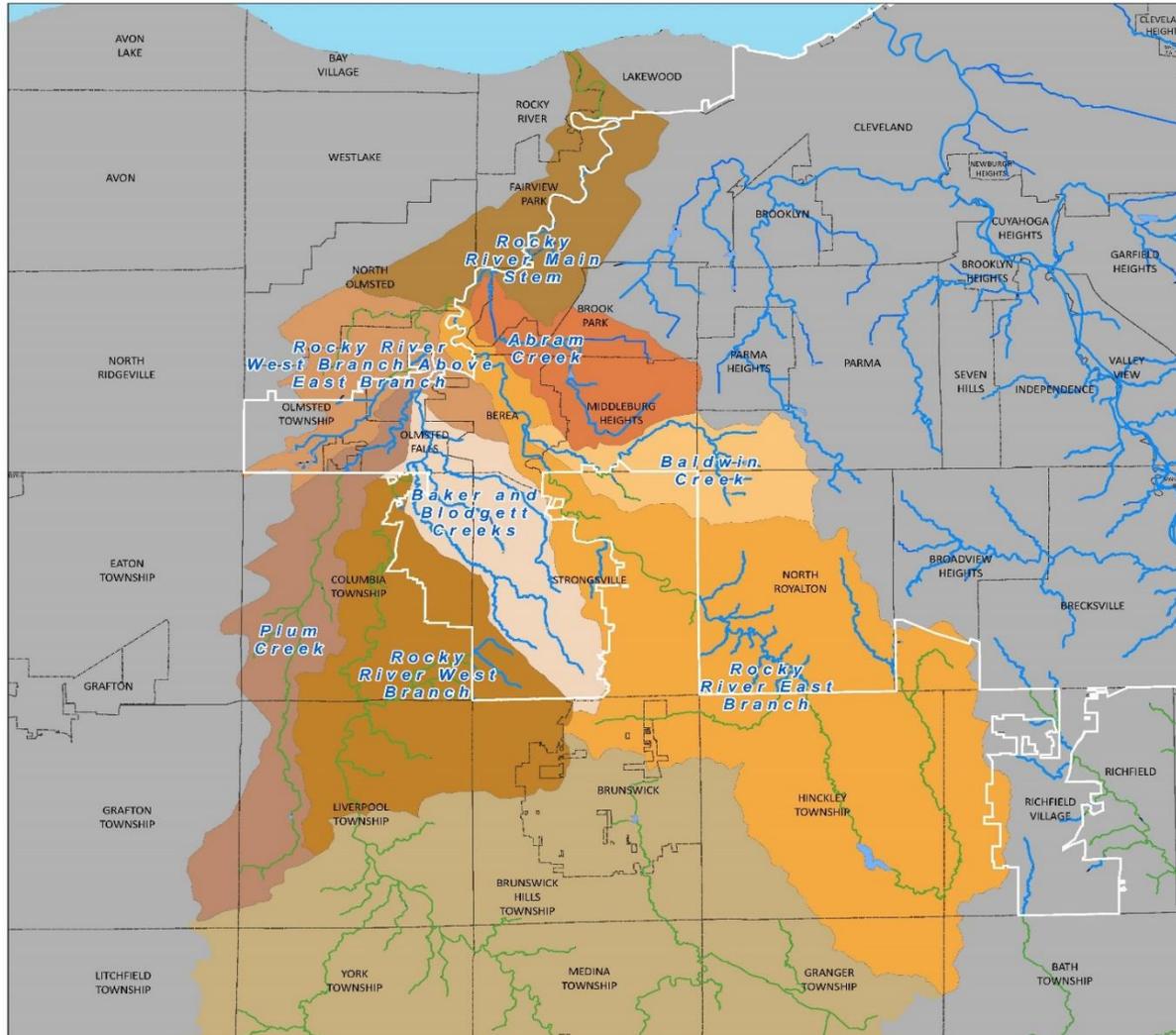
Date: _____

Questions



Linda Mayer
Grant Programs Administrator
MayerL@neorsd.org
216-253-2147

Stormwater Master Plan



Rocky River Watershed

-  Regional Stormwater System in NEORS D Service Area
-  Regional Stormwater System not in NEORS D Service Area
-  Service Area
-  Community

 **Northeast Ohio Regional Sewer District**

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

Map Created: October 2017

1:66,551



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) 861-6600 --- GIS@neorsd.org

Stormwater Master Planning (status through 1/31/2020)

Cuyahoga River South

Completion Date: June 2019



100 % Complete

Cuyahoga River North

Completion Date: March 2020



95% Complete

Rocky River

Completion Date: August 2020



84% Complete

Chagrin River / Lake Erie Tribs

Completion Date: May 2021



47% Complete

Stormwater Master Plan

Problem Area Determination

Watershed	Problem Areas	Stand-alone Projects	Estimate Costs
Abram Creek	7	3	\$43,193,000
Baker Creek	7	14	\$21,848,000
Baldwin Creek	10	5	\$48,593,000
Blodgett Creek	7	5	\$17,637,000
French Creek	2	0	Pending
Plum Creek	3	1	\$8,639,000
Rocky River EB	16	11	\$81,078,000
Rocky River MB	3	1	Pending
Rocky River WB	16	12	Pending
Total:			\$220,988,000

Stormwater Master Plan

Member Community Communication

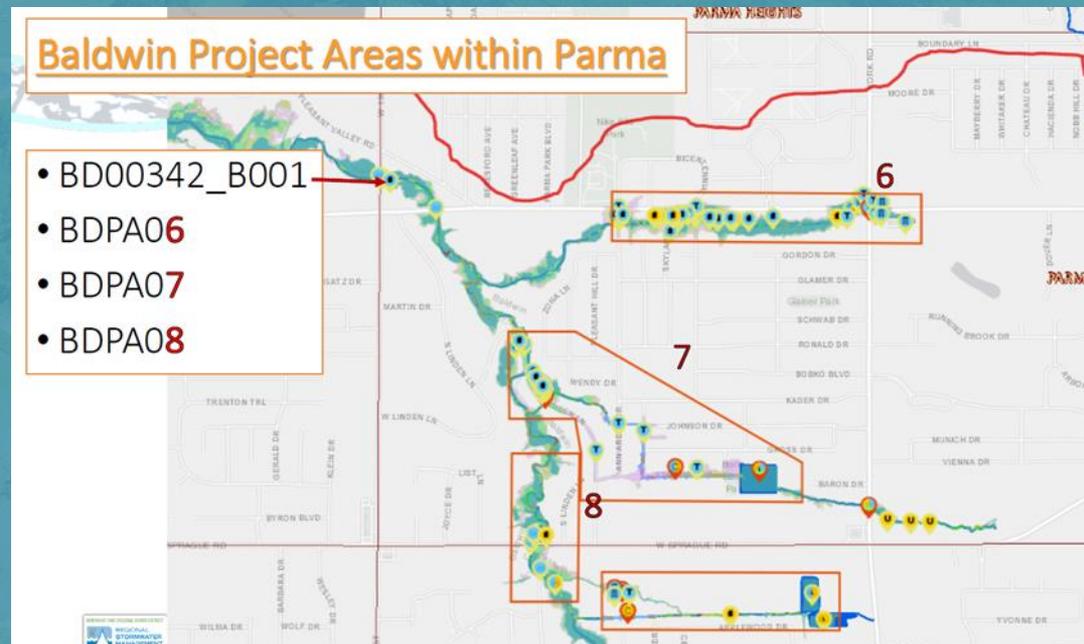
Completed Review Meetings

- Berea
- Brook Park
- Cleveland Metro Parks
- Middleburg Heights
- North Royalton
- Parma

Upcoming Review Meetings

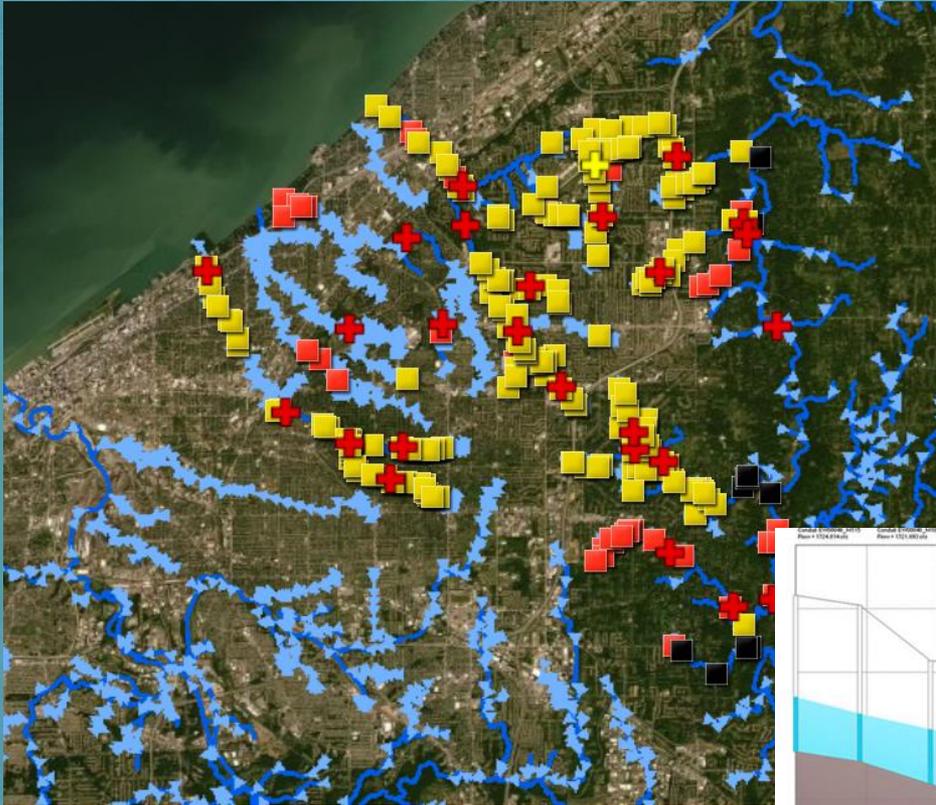
- Cleveland
- Columbia Township
- Cuyahoga County
- Olmsted Falls*
- Olmsted Township*
- Strongsville*
- Ohio Department of Transportation – District 12
- Ohio Turnpike Commission

* Have communicated via email

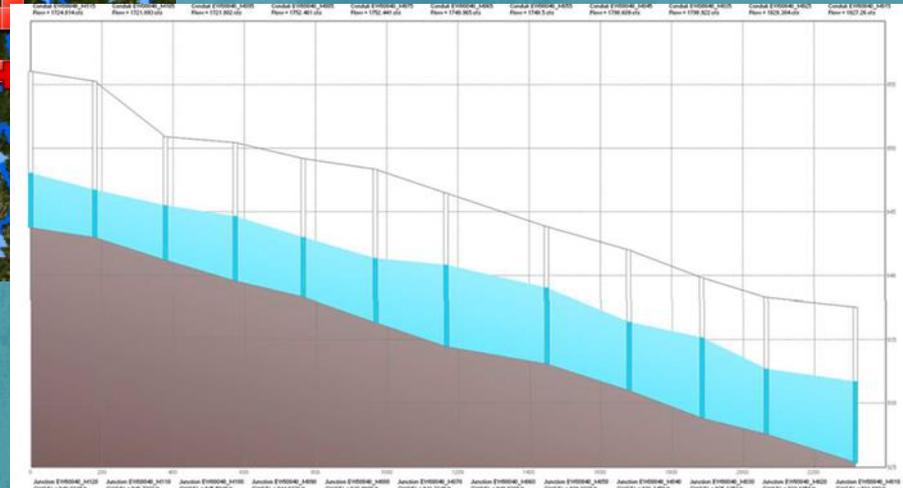


Stormwater Master Plan

Data Sharing with Community Members



- Culverted Stream CCTV/PACP Reports
- Spherical Imagery of Open Streams
- Inventory of RSS Crossings
- SWMM Models of Sub-watersheds
- SWMP Community Report



Questions



@Dale Austin 2018

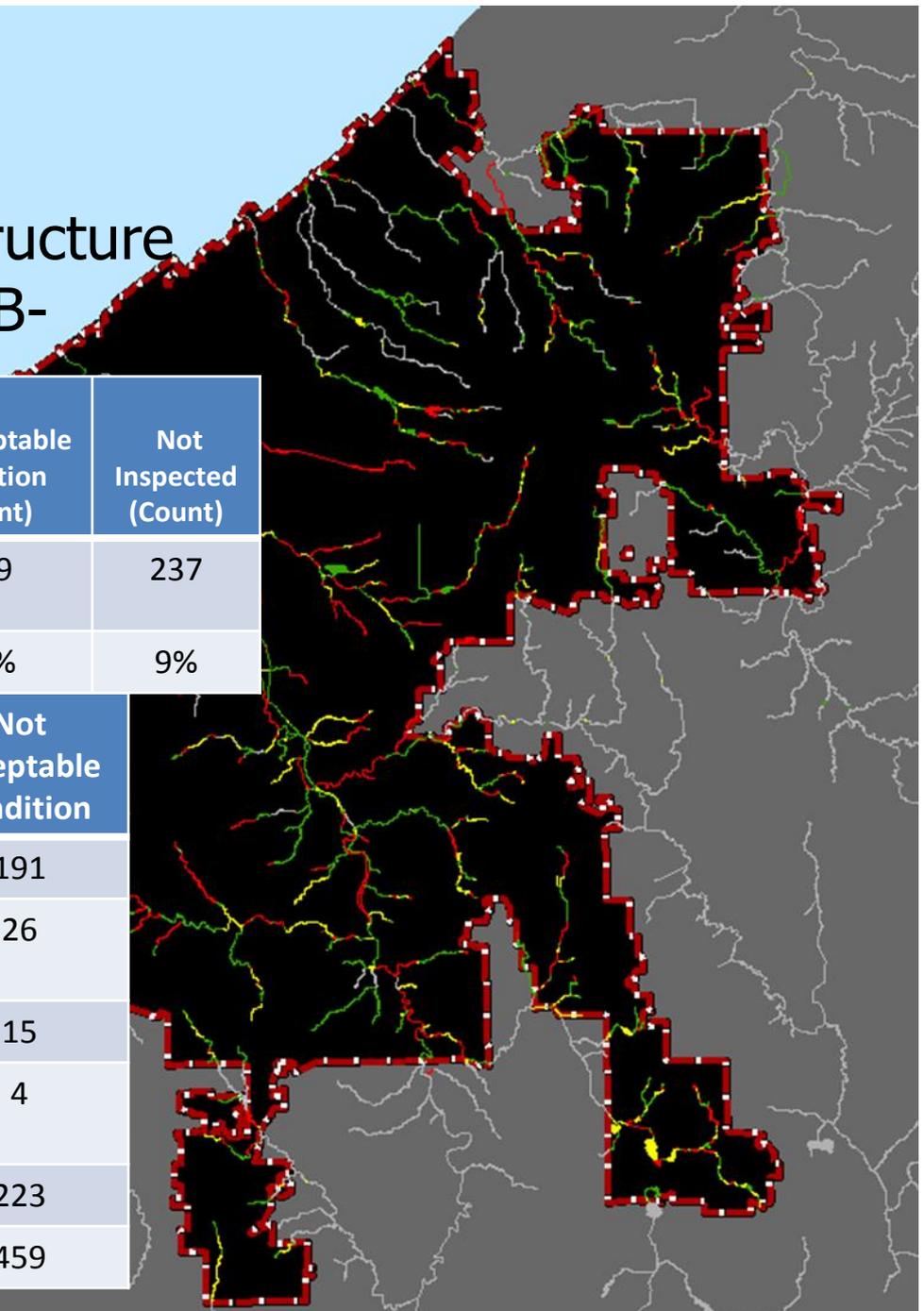
SWIM

March 2020

SWSA State of the Infrastructure Structural Condition: B-

RSS	Total (Count)	Good Condition (Count)	Acceptable Condition (Count)	Unacceptable Condition (Count)	Not Inspected (Count)
Total	2,811	1,689	426	459	237
Percent	100%	60%	15%	16%	9%

Asset Class Type	Overall Grade	Assets Inspected	Not Acceptable Condition
Crossings	B-	1,057	191
Culverted Streams	B-	156	26
Basins	B-	96	15
Major Structure	B-	15	4
Streams	B-	1,250	223
Total	B-	2,574	459





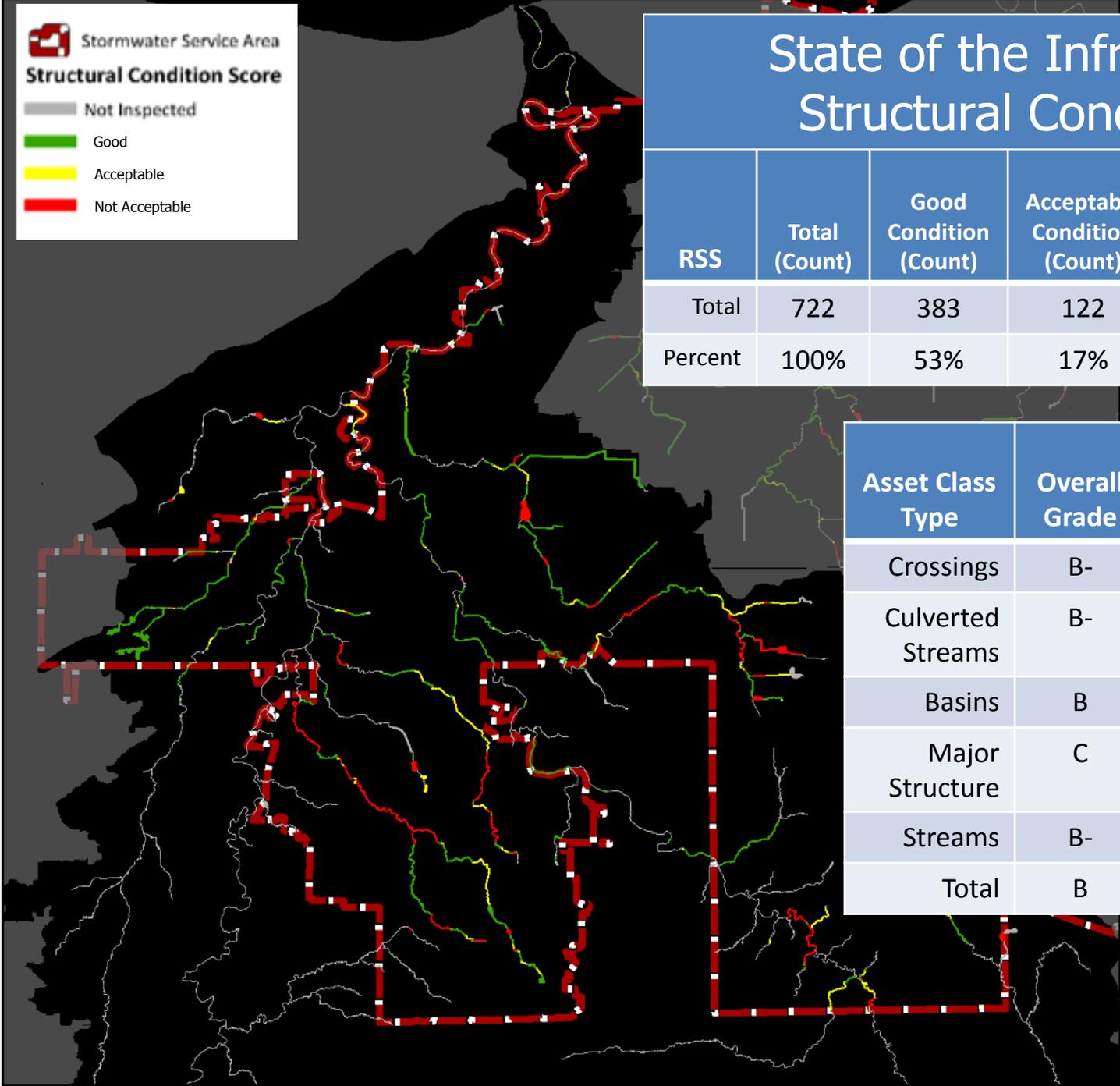
Structural Condition Score

- Not Inspected
- Good
- Acceptable
- Not Acceptable

State of the Infrastructure Structural Condition: B-

RSS	Total (Count)	Good Condition (Count)	Acceptable Condition (Count)	Not Acceptable Condition (Count)	Not Inspected (Count)
Total	722	383	122	122	96
Percent	100%	53%	17%	17%	13%

Asset Class Type	Overall Grade	Assets Inspected	Not Acceptable Condition
Crossings	B-	277	58
Culverted Streams	B-	30	5
Basins	B	28	5
Major Structure	C	6	2
Streams	B-	285	52
Total	B	626	122



State of the Infrastructure: Stream & BTU Rocky River East Branch



Asset #: RE00650
North Royalton
5079 Akins Road
Structural BRE= 24
Structural Grade = D
BTU: Residence

Recommendation: SWIM monitor annually, notify owner, consider for streambank stabilization

State of the Infrastructure: Stream & BTU Abram Creek



Asset #: AC00131
Middleburg Heights
Englewood Drive
Structural BRE= Range 25-40
Structural Grade = D/F
BTU: Commercial Buildings and
Parking Lots

**Recommendation: SWIM monitor
annually, Forward for Further Analysis**

State of the Infrastructure: Stream & BTU Minniee Creek

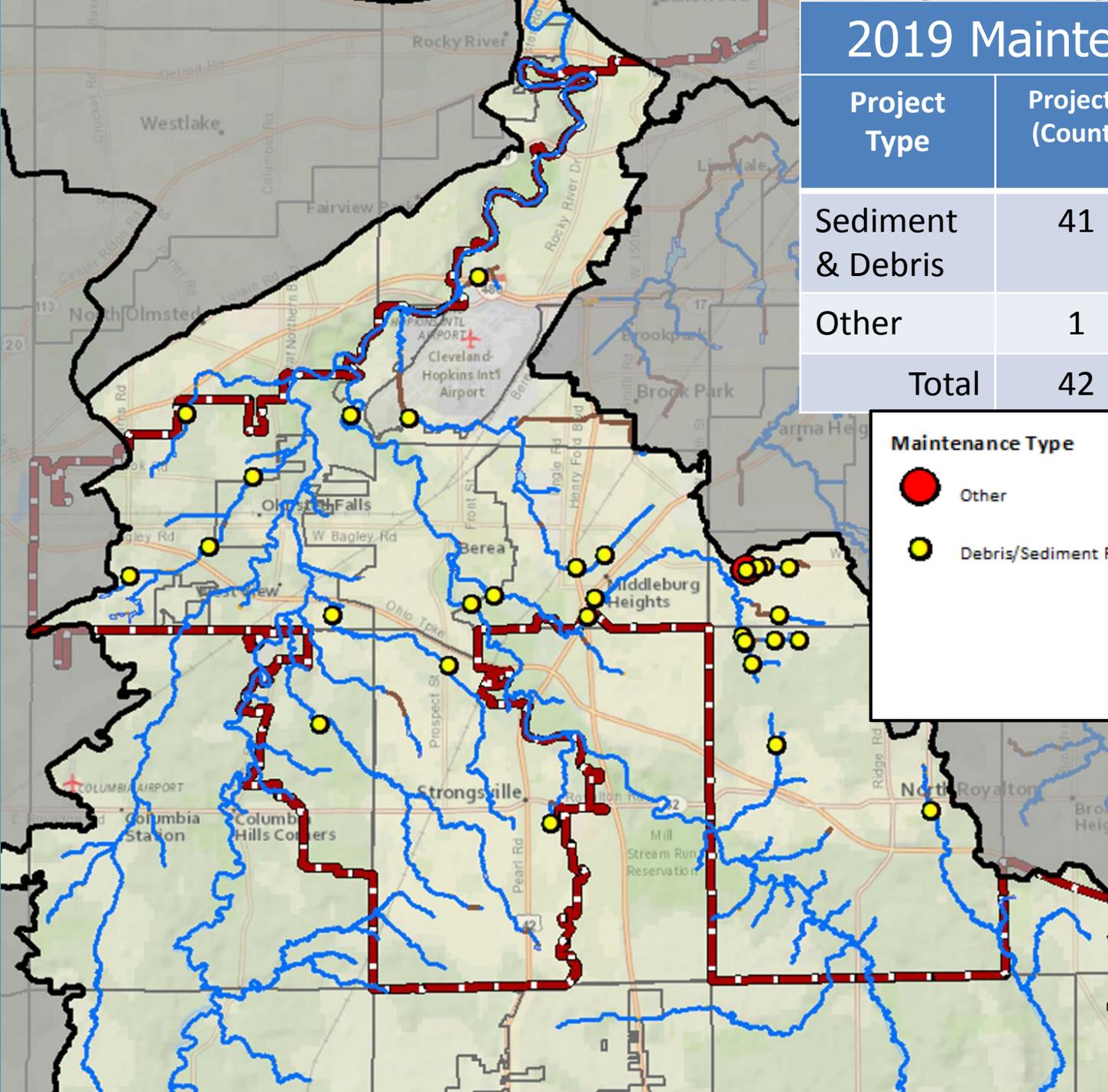


Asset #: MN00099
Olmsted Falls
Access Road East of Columbia
Structural BRE= 18
Structural Grade = C

Recommendation: SWIM monitor

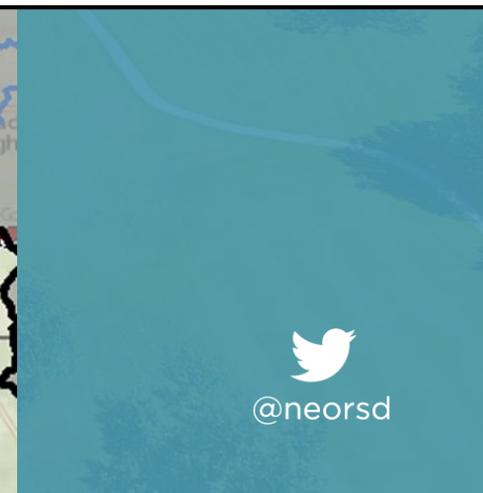
2019 Maintenance Projects

Project Type	Projects (Count)	Debris Removed (CY)	Sediment Removed (CY)
Sediment & Debris	41	596	0
Other	1		
Total	42	596	0



Maintenance Type

- Other
- Debris/Sediment Removal
- Watershed Boundary
- Stream
- Major Structure
- Basin
- Crossing
- Culverted Stream
- Stormwater Service Area
- Community Boundary



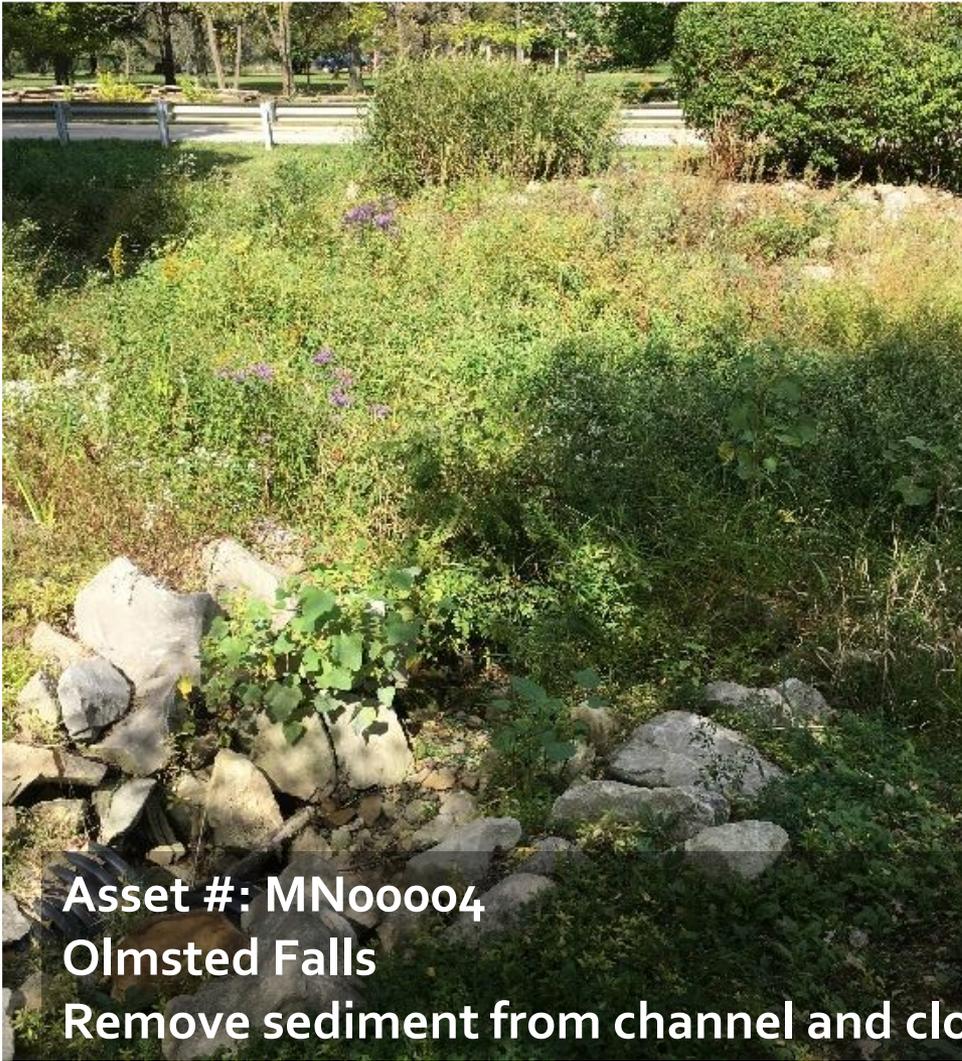
Sediment Maintenance: Dredging Minnie Creek

**Asset #: MN00034
Olmsted Township**

Remove sediment choked channel to restore flow capacity



Sediment Maintenance: Dredging Minnie Creek



Asset #: MN00004
Olmsted Falls

Remove sediment from channel and clogged basin outlet



Small Scale Maintenance: Streambank / Structural Repair Blodgett Creek [Planned Small Scale Project]



Asset #: BL00148

Strongsville

Repair Streambank, Stabilize Headwall, Reconnect Pipe



Northeast Ohio
Regional Sewer District



@neorsd

Monitoring Landcaster Bridge

Feb 2016



Questions



Stormwater Design and Construction Program

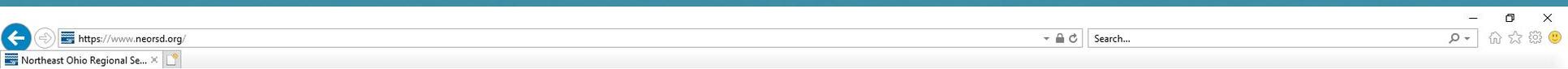


**Northeast Ohio
Regional Sewer District**



@neorsd

Stormwater Storymap



NOTICE: Southerly Electrical Infrastructure I

Doing business with us ▸

Industrial Customers ▸

Engineering & Construction

Plan Review

Procurement

Register as a New Vendor /
iSupplier Login

Bids and Proposals: Active,
Closed, and Awarded

Business Opportunity Program:
Get certified

Event Calendar

GovDeals Surplus Items

Capital Improvement Plan

Stormwater Construction
Program

Opportunity Corridor on-site
stormwater management
strategy report

*qualify for a lower
? We can help.*

Programs

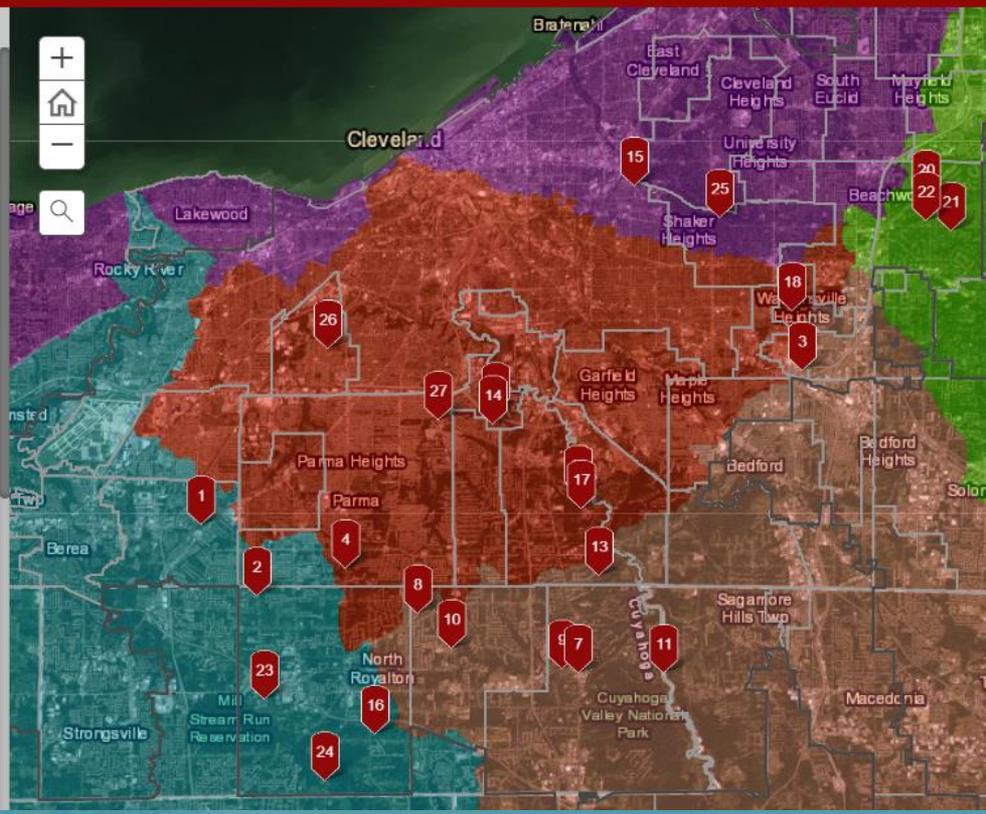
NEORSD Stormwater Design & Construction Program

Navigate using the tabs below and by clicking the images to view more details on our completed, current design, and current construction stormwater projects. Zoom in to view satellite imagery and Regional Stormwater culverts, conduits, etc). Use the "Zoom To" drop down menu to locate your watershed.

- All Projects
- Design**
- Construction
- Complete



 1 Abram Creek / Big Creek Parkway Detention...	 2 Baldwin Creek Stabilization Near Abb...	 3 Bear Creek Culvert Removal	 4 Big Creek Stream Stabilization Upstream...
 5 Brandywine Creek - Barlow Community...	 6 Brandywine Creek - Owen Brown Bridge...	 7 Chippewa Creek Bank Stabilization at Route 21	 8 Chippewa Creek Flood Reduction Near Echo...
 9 Chippewa Creek Stabilization at...	 10 Chippewa Creek Stream Stabilization Near...	 11 Cuyahoga River Bank Stabilization Brecksville	 12 Cuyahoga River Bank Stabilization at Railway...



Design



Bear Creek Improvements – North Randall

Goals:

- Daylight or replace failing culverts
- Reduce flood elevations

Current Design Phase:

- 50% Design
- Est. Construction Cost: \$1M

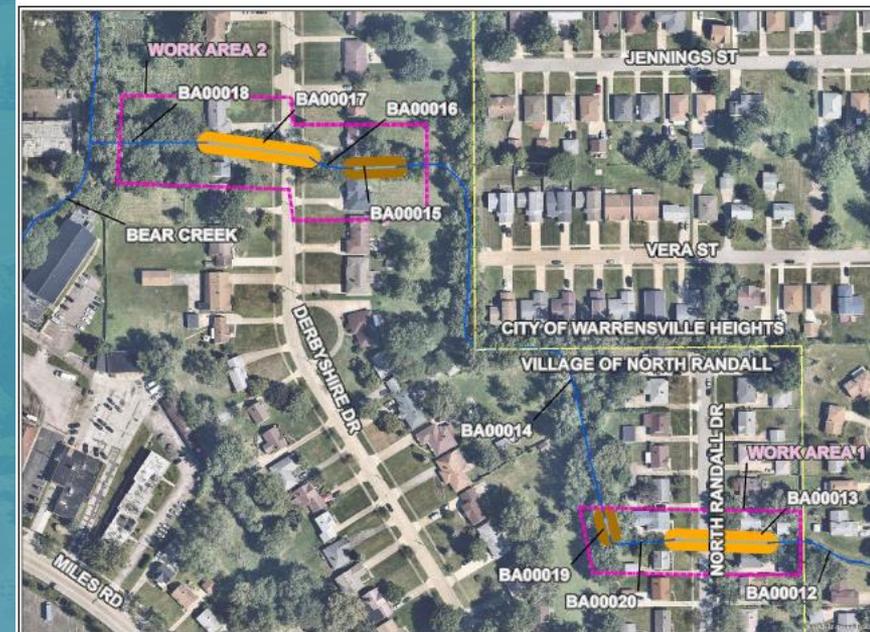


Figure 6: BA00013 Deteriorated Timber Section



Figure 7: BA00013 Failing Timber at Outfall Section



Brookside Culvert Rehabilitation – Cleveland



2017

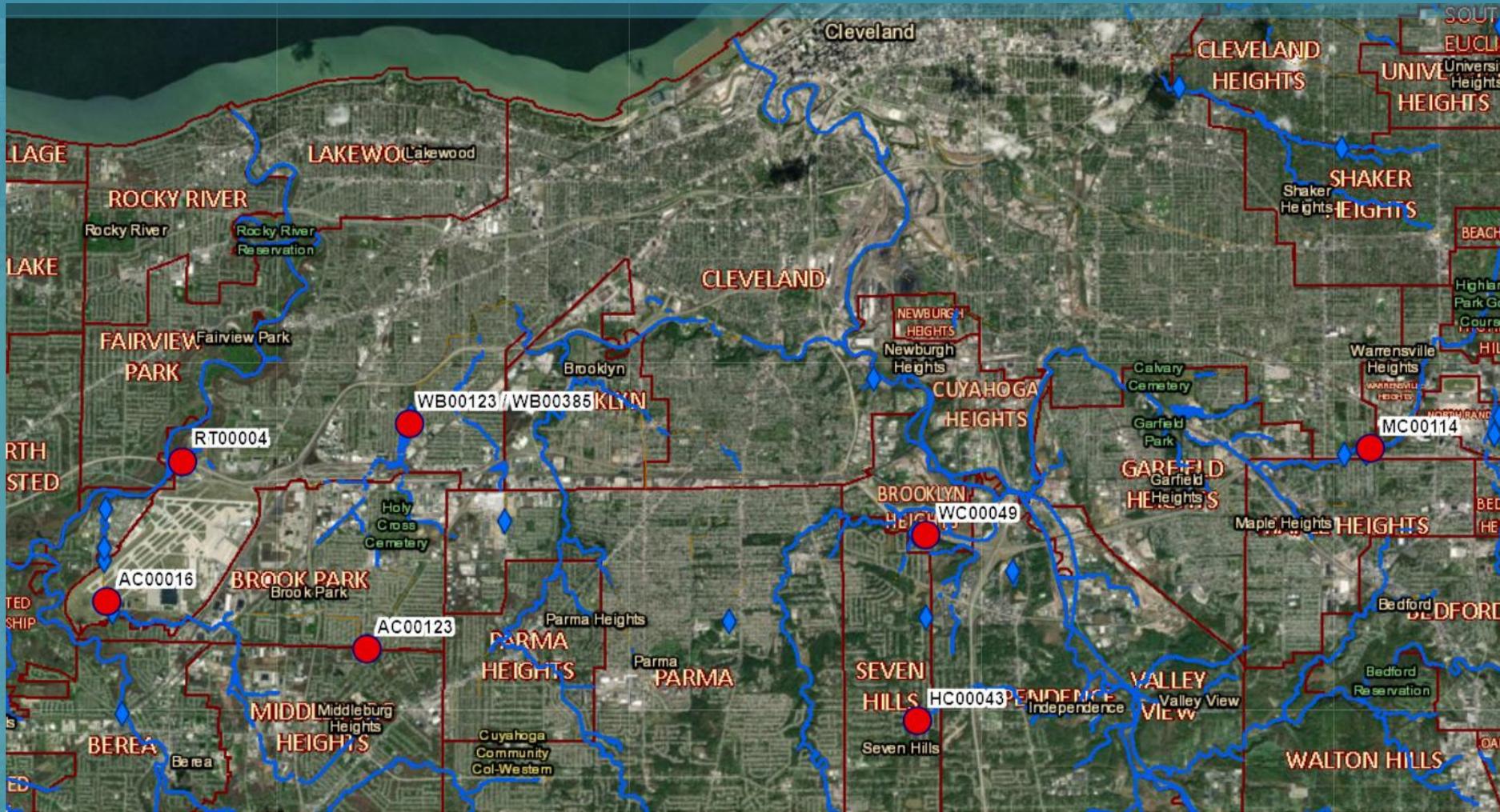


2018



2019

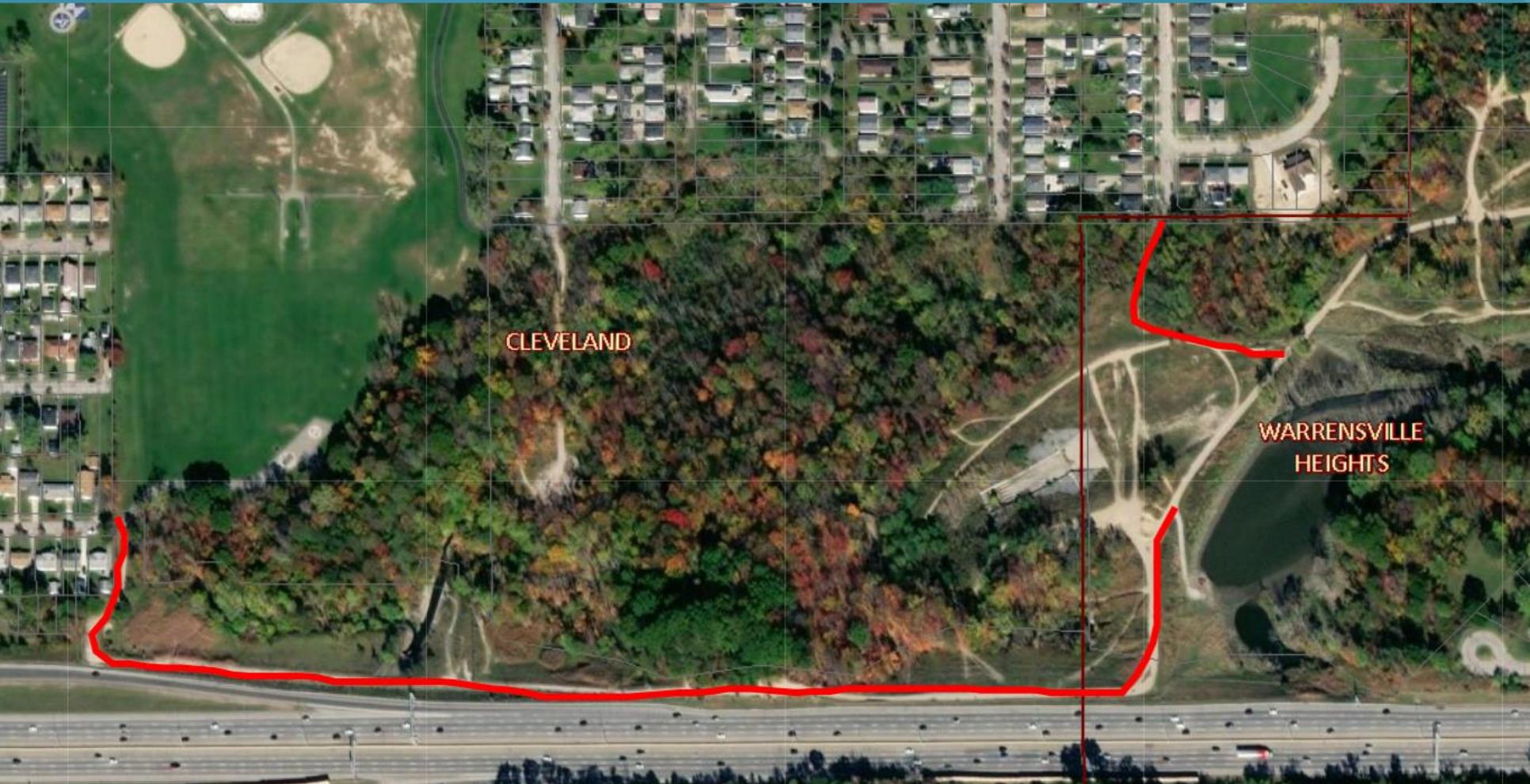
Debris Racks and Access Roads in Various Locations



AC00016 – Cleveland Hopkins Airport Culvert Debris Rack



MC00114 - Kerruish Basin Access Drives



HC00043 – Hemlock Creek Basin Debris Rack and Access Road

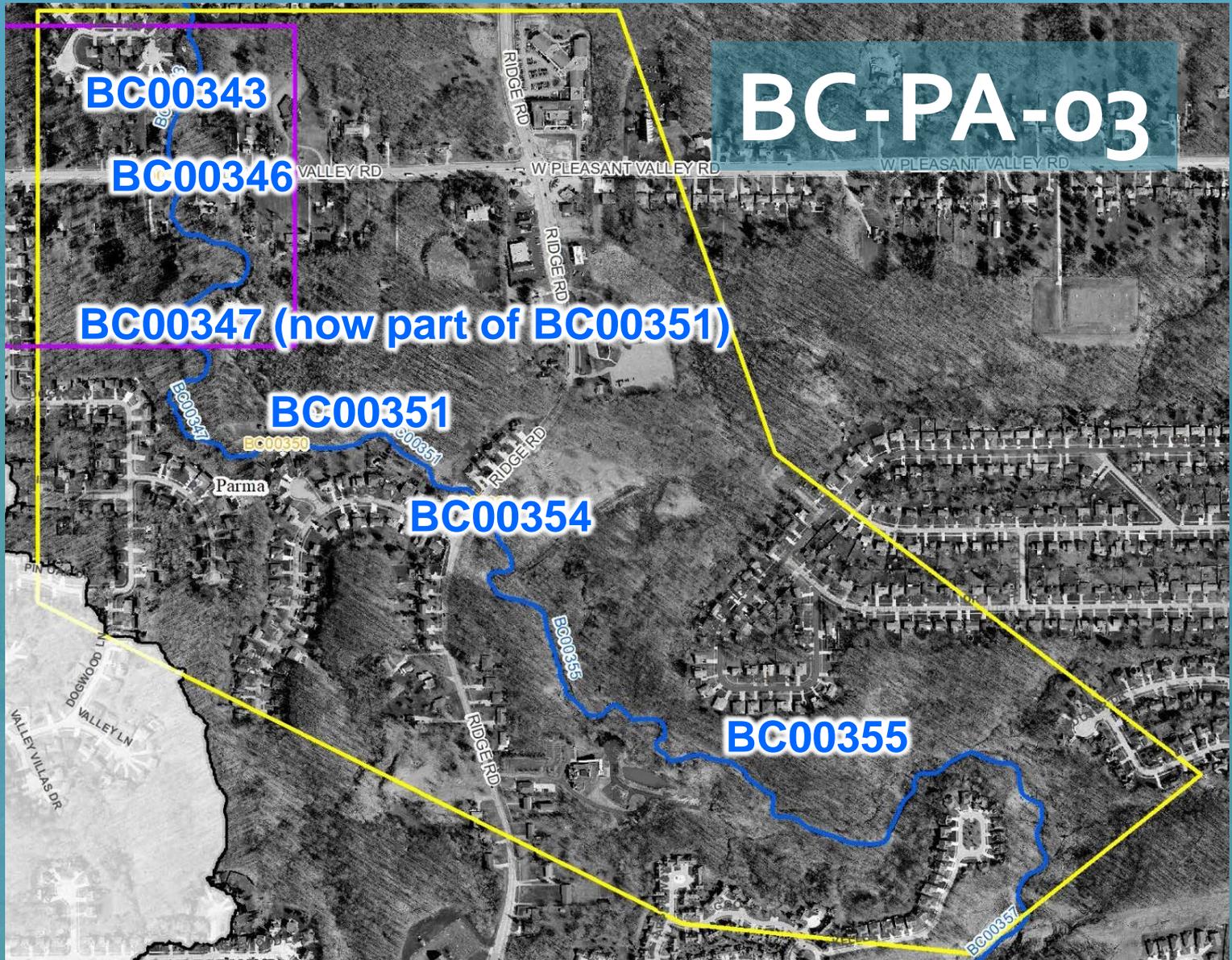


WB00123 & WB00385 – Puritas Basin Access Roads

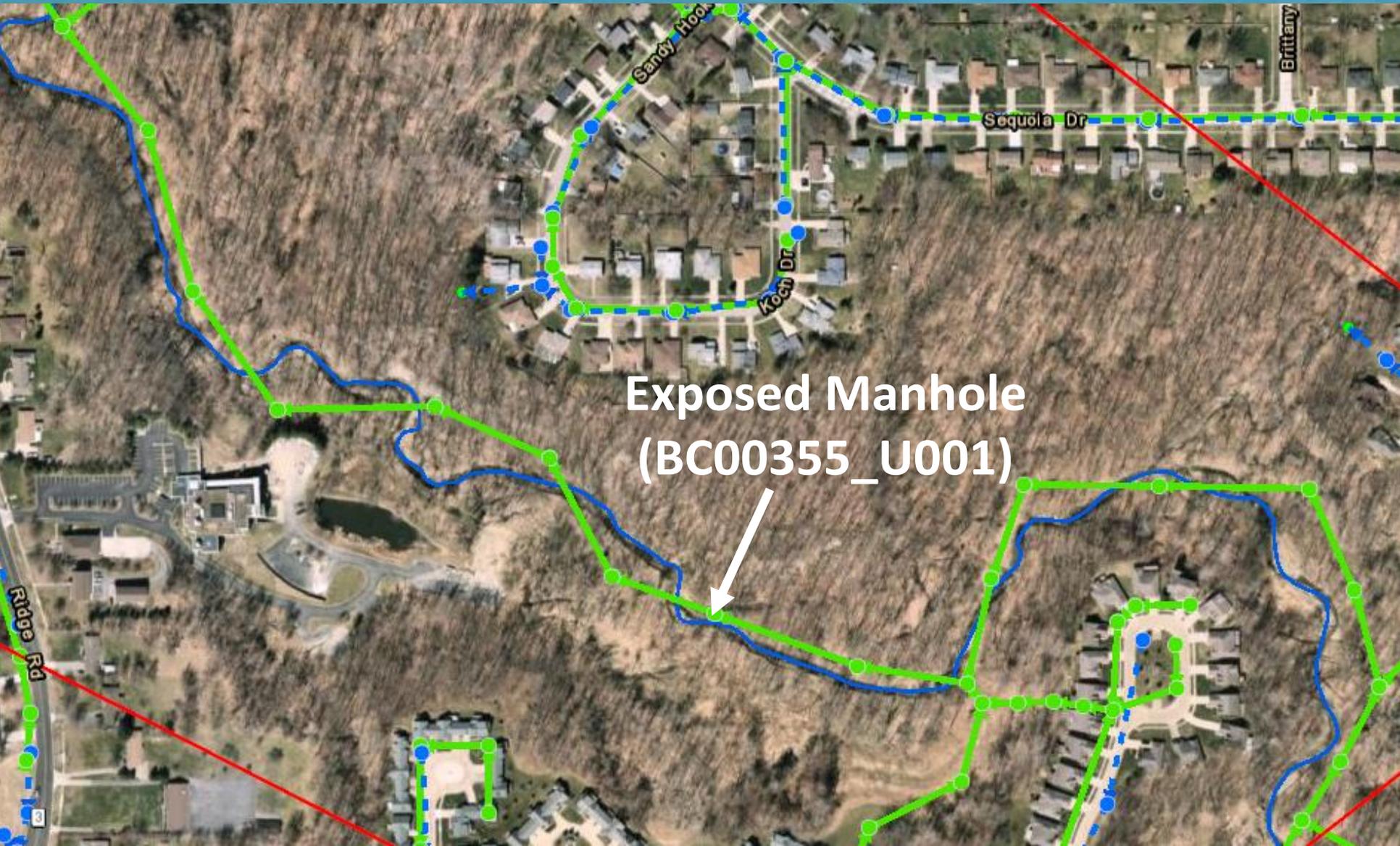




Big Creek Stream Restoration Upstream and Downstream of Ridge Road



BC00355



Exposed Manhole
(BC00355_U001)



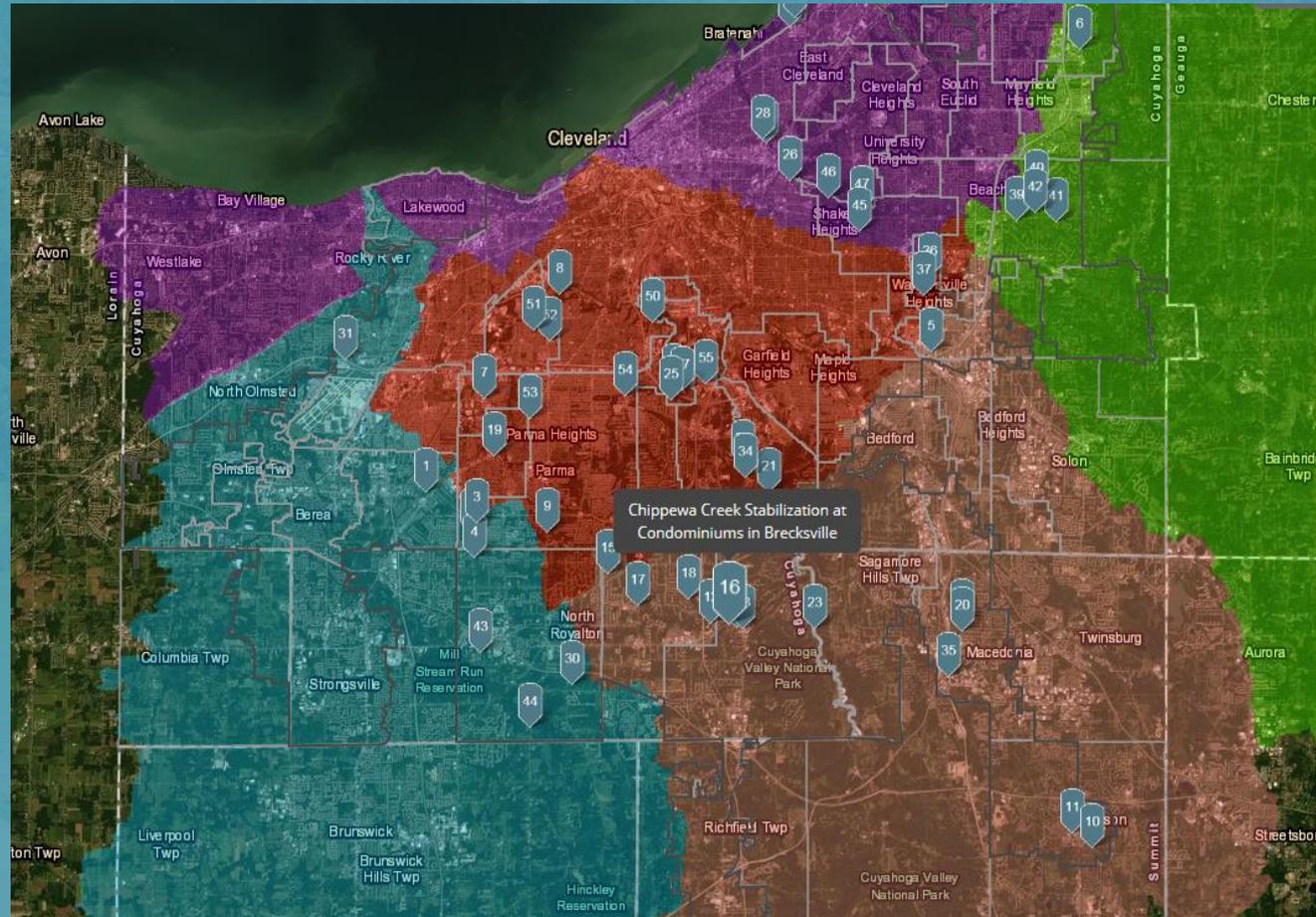
BC00351



Upcoming Construction

Chippewa Creek is a tributary to the Cuyahoga River

Eroding right bank by Condominiums in Brecksville



Chippewa Creek Stabilization at Condominiums in Brecksville

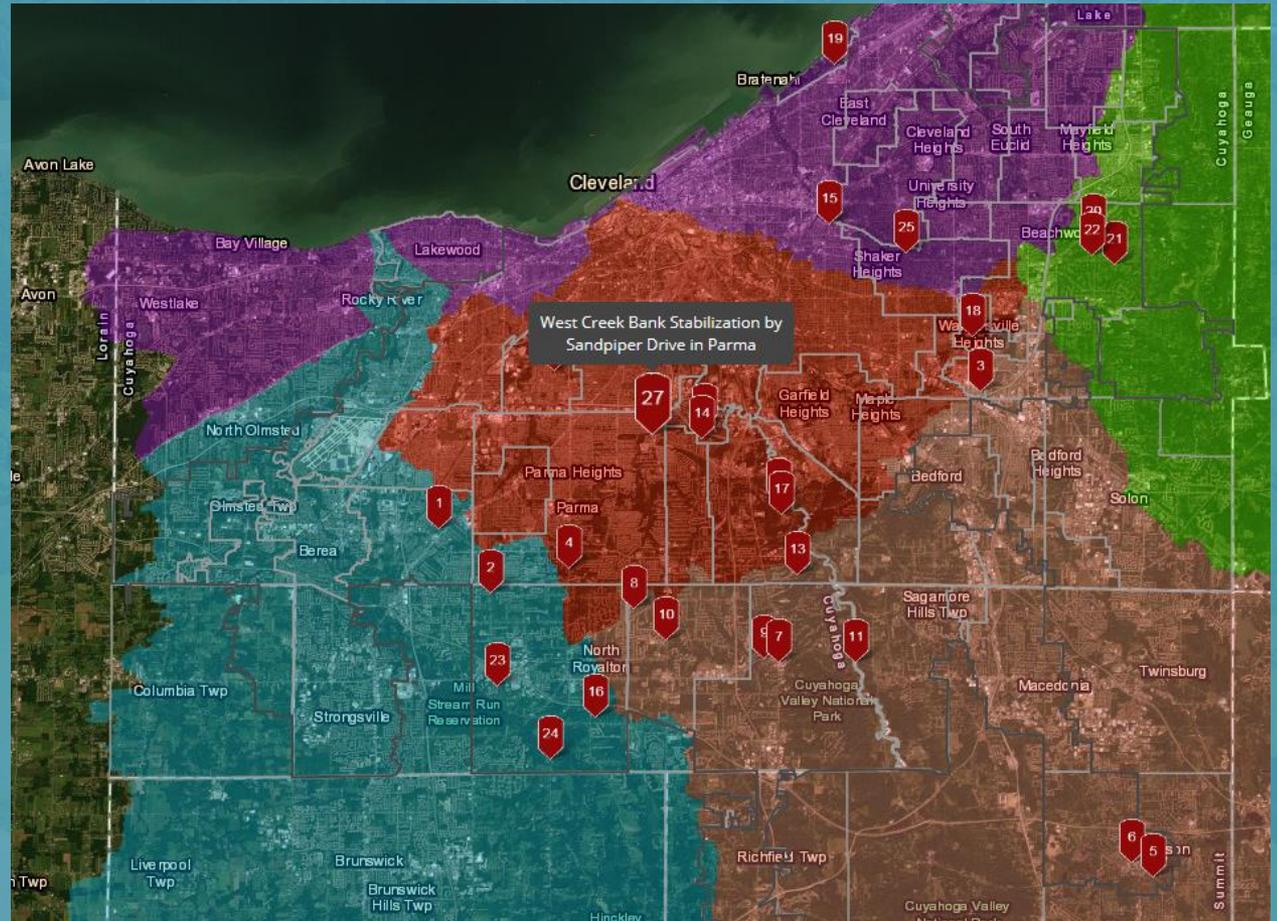


- *Eroding streambank within 12 ft of the condominiums*
- *Erosion within 6 ft of local sanitary sewer*
- *Stream infrastructure more cost effective than acquisition*
- *Approx. \$1.2M Construction Cost*
- *Excavate Floodplain on left bank*

Upcoming Construction

West Creek is a tributary to the Cuyahoga River

Eroding banks by a nursing facility



West Creek Stabilization by Sandpiper Drive



- *Stream infrastructure more cost effective than acquisition*
- *Large area of property impacted including large trees*
- *Approx. \$2.3M Construction Cost*

Questions



@Shaun Cassidy 2020

WTL Contact

Meiring Borchers
216.881.6600 Ext. 6159
Cell: 440 409 1766
borcherdsm@neorsd.org



Stormwater Program: Community Resources
<http://www.neorsd.org/communitystormwaterresources.php>