

Agenda

- Welcome
- Program Updates
- Community Cost-Share
- Stormwater Construction Plan
- Stormwater Master Plans
- Phase II Stormwater Services
- What's Next

Watershed Advisory Committees

- Meets March and October
- Members: Member Community, Public Agency with control of infrastructure in the watershed
- Interested Entities: Watershed Groups, Land Conservancies



Watershed **Advisory Committees**

- Mechanism to provide input on Programs:
 - > Stormwater Master Plans
 - > Stormwater Construction Plan
 - > Inspection, Operation and Maintenance **Activities**
 - ➤ NPDES Phase II Assistance



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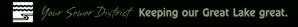


Agenda

- Welcome
- Program Updates
 - Stormwater Fee Billing and Credits
 - Stormwater Management Plan Review
 - Stormwater I&M
- Community Cost-Share
- Stormwater Construction Plan
- Stormwater Master Plans
- Phase II Stormwater Services
- What's Next

Stormwater Fee Billing

- 2nd round of stormwater bills started in October
- Monthly billing begins in January
 - Stormwater Only bills will remain quarterly





Title V - SW Mgm't Plan Review

Member Community Responsibilities

- Submit/cause to submit SW mgm't plans to the Sewer District within 7 days of your receipt of plans
- Ensure minimum standards are used for design, including all applicable federal and state regulations
- Adopt minimum stormwater design and programmatic standards consistent with Ohio EPA NPDES MS4 and CGP Permits
- Update the Sewer District when your stormwater management regulations are revised



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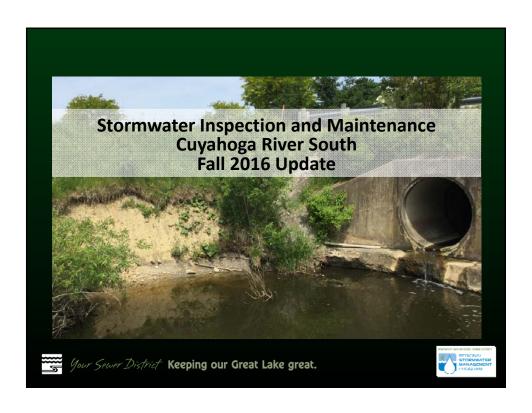
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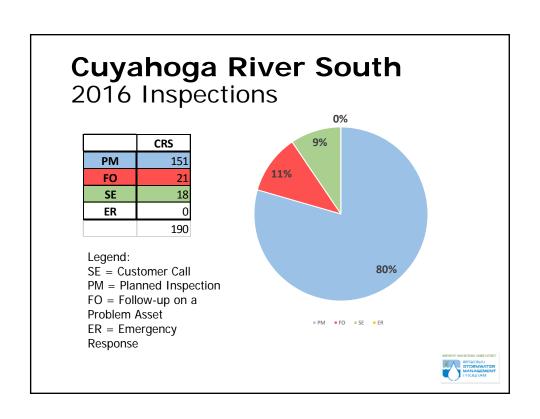
Sewer District Responsibilities

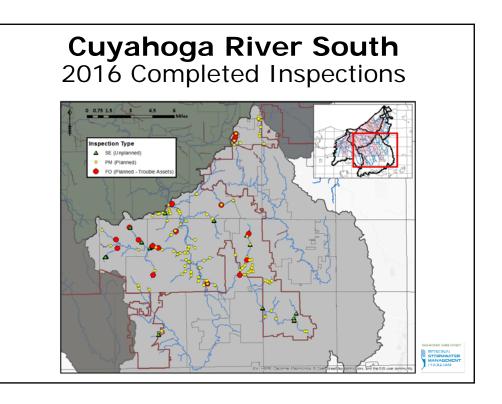
- Review submissions with respect to flooding, erosion and water quality issues
- Provide review comments within 15 business days of receiving a **complete** SW Mgm't Plan
- Ensure SCMs meet minimum design standards maximize future credits opportunities
- Sewer District comments are advisory only and are non-binding on the Member Community and the applicant

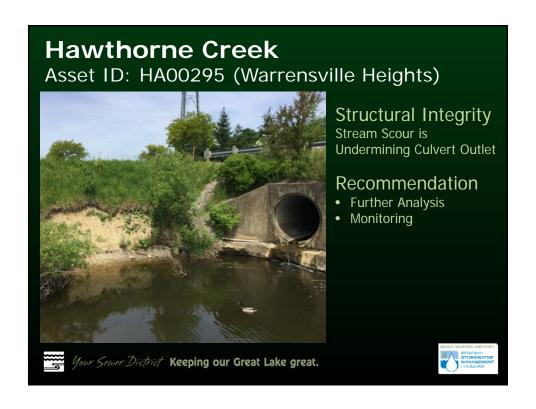


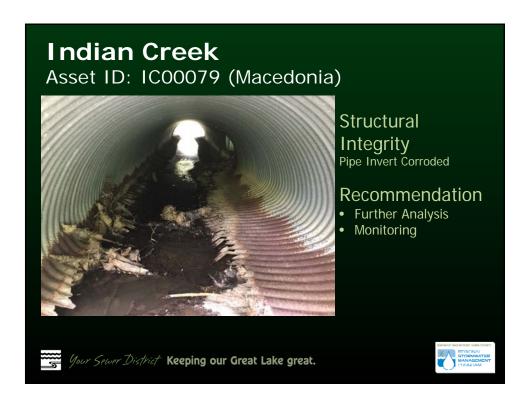




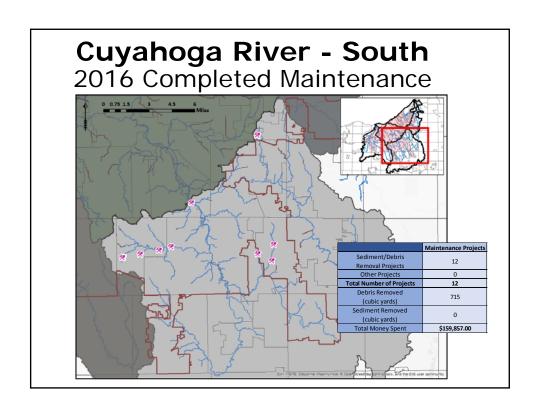






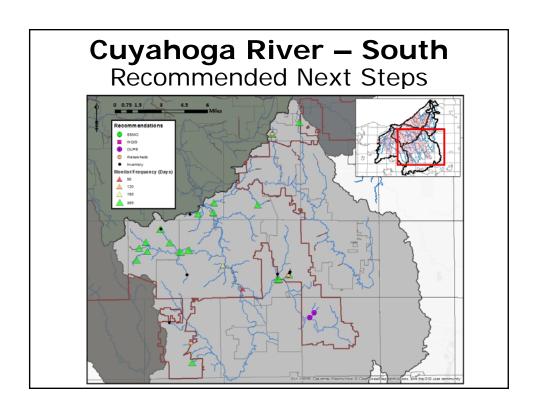


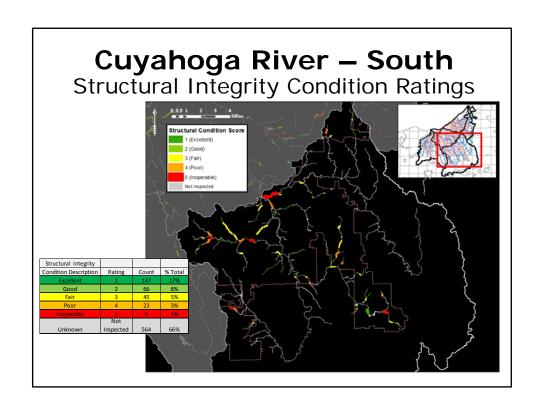


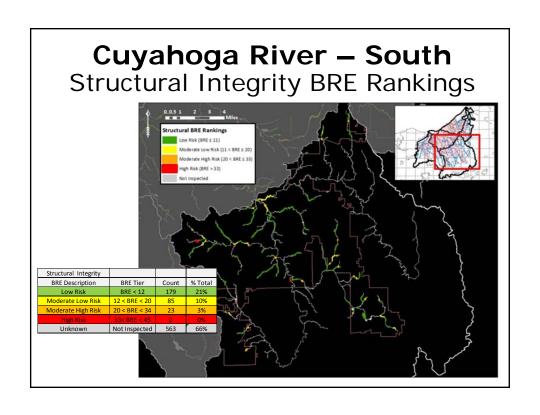


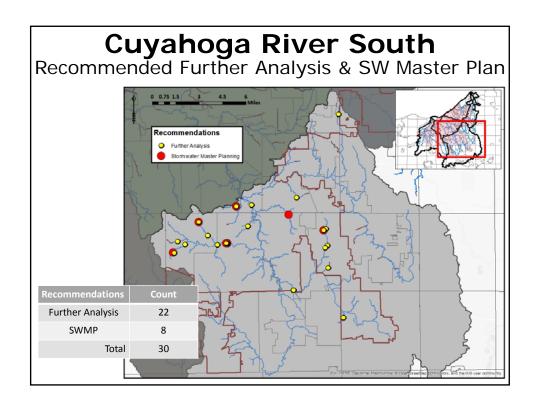


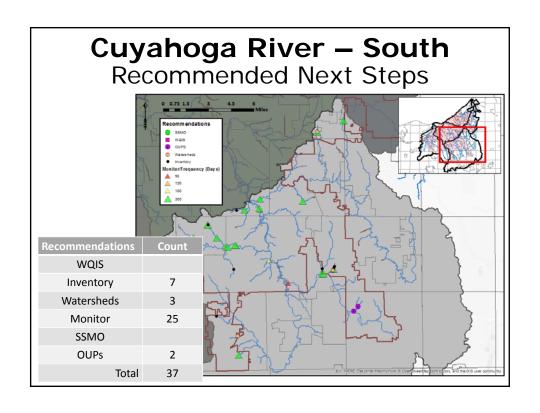












Stormwater I&M **Next Steps**

- Track all recommendations to completion
- Continue inspecting assets without condition scores
- Coordinate with asset owners to collect record drawings and historical inspections



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Stormwater I&M **Next Steps**

- 2016 State of the Infrastructure Report
- Inspect assets at the BTU level
- Update storm event inspection routes







Agenda

- Welcome
- Program Updates
- Community Cost-Share
 - Policy, Application, and Review Process
 - Program Forms
 - Example Projects
- Stormwater Construction Plan
- Stormwater Master Plans
- Phase II Stormwater Services
- What's Next

Community Cost-Share

- \$5,923,528.40 available across communities
- Eleven approved projects, totaling \$559,950.32
- Outreach to communities offering assistance



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Community Cost-Share

- Program Policy
- Process Overview
 - Project Eligibility
 - Ineligible Projects
 - Application Overview
 - Reimbursement Overview





Community Cost-Share

- Program Forms
 - Application
 - Progress Report
 - Budget Modification Request
 - Reimbursement Request
 - Cover Sheet
 - Deliverable Expense Worksheet



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Community Cost-Share Community Resources Website http://neorsd.org/communitystormwaterresources.php Community Resources Cost share, plan review, maps, and more Cost share, plan review, maps, and more Website Community Resources Cost share, plan review, maps, and more Cost share, plan review, maps, and more

Community Cost-Share

- Application...
 - Project Narrative (1,000 words)
 - Ability to Provide Long-Term Maintenance (500 words)
 - Visibility & Public Outreach (500 words)
 - Budget Summary
- Vendor Registration
 - http://www.neorsd.org/isupplier_homepage.php



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Community Cost-Share

- Agreement
 - Template agreement tailored to project request
 - Legal review and execution timing
 - Projects must be pre-approved to be eligible for reimbursement





Community Cost-ShareGarfield Heights

- East 135th Sanitary Sewer Replacement
- Acute SSO/Illicit Discharge
- 8" sanitary sewer / excavation / roadway repair
- \$131,022.94 approved
- Budget Modification Request for increased costs









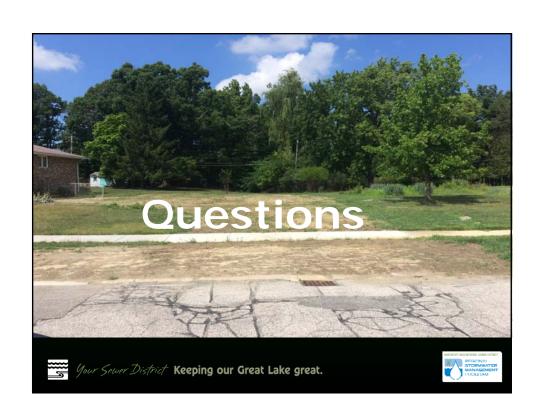
Community Cost-ShareParma

- Coventry-West Creek Impervious Surface Removal
- Chronic sewage-stormwater basement flooding adjacent to West Creek tributary
- Demolition of 3 single-family homes (10,030 sq.ft. of IA)
- \$37,023.90 approved w/ budget modification
- Budget Modification Request for increased costs



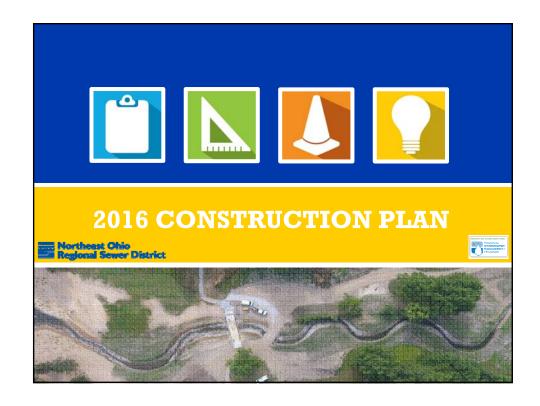


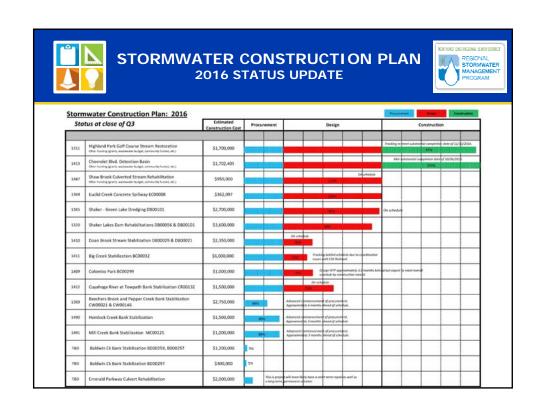


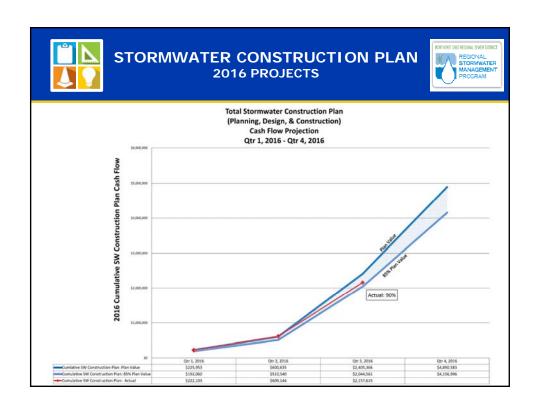


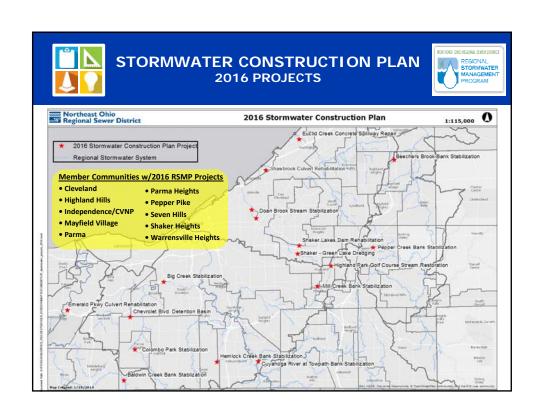
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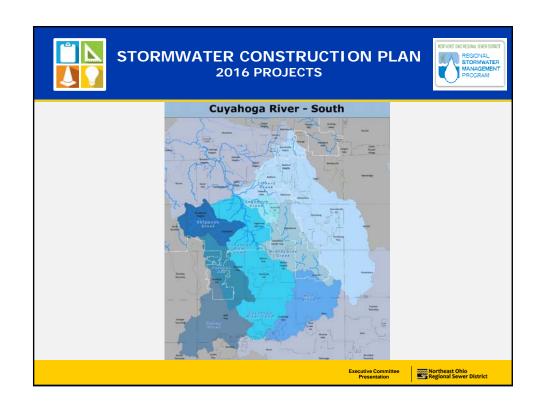
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- Program Updates
- Community Cost-Share
- Stormwater Construction Plan
 - Status of 2016 Projects
 - Proposed Near Term Projects
- Stormwater Master Plans
- Phase II Stormwater Services
- What's Next











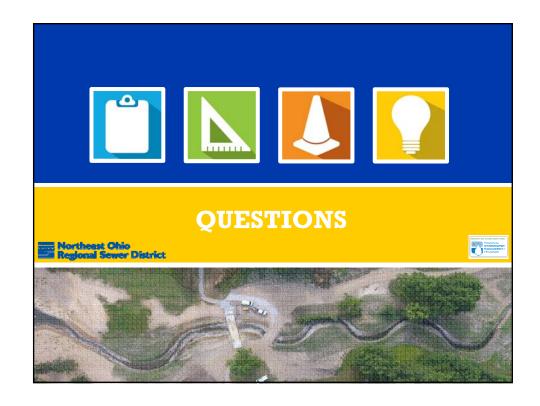
















Community Identified Project

Submit Project information to the Sewer District

- Budget
- Project Summary
 - Problem being addressed
 - Explanation of the extent of specific improvements along the RSS
 - Site maps



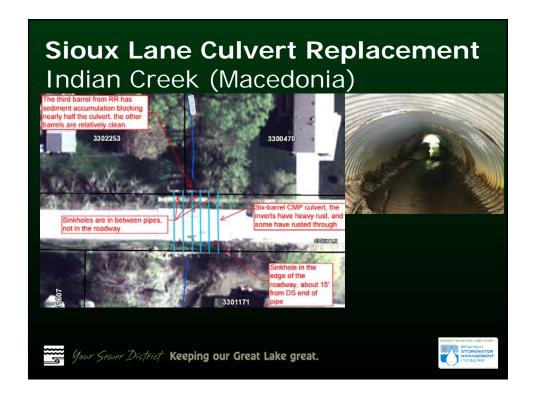
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Community Identified Project

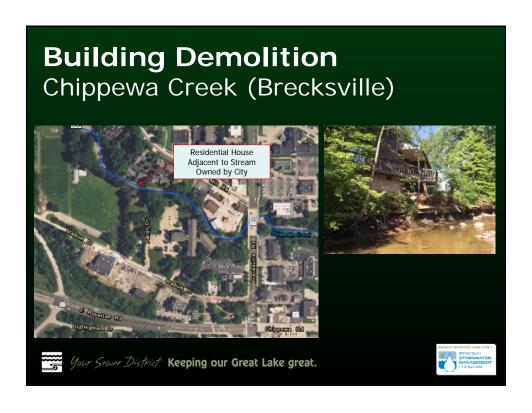
- Background Information
 - Studies and planning documents which support the need, and the proposed solution
 - Site geotechnical studies, wetlands, water quality, and listed endangered species
 - Existing and proposed preliminary hydrology and hydraulics
 - Permitting (if initiated)
 - Risks or constraints
 - Known stakeholder outreach or input
 - Current photos of the project site













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- Welcome
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- Stormwater Construction Plan
- Stormwater Master Plans
 - Project Overview
 - Coordination with WAC and Communities
 - Critical Success Factors
- Phase II Stormwater Services
- What's Next

Stormwater Master PlansGoals and Objectives

- Operational Performance Evaluation
 - Identify areas of erosion and flooding through a combination of modeling, field assessments, and monitoring including portions of the LSS
- Alternatives Development and Evaluation
 - Comprehensive set of solutions to existing and future problems
- Development of Master Plan
 - Recommendations for policies, construction projects, maintenance activities and areas for preservation

Cuyahoga River South SWMP

Project Area

- 288 sq mi Drainage Area
- 89 sq mi within District Stormwater Service Area
- 9 Subwatersheds
- Cuyahoga River mainstem
- 24 Communities



Cuyahoga River South SWMP

- 4 Main Objectives
- 1. Operational performance evaluation
- 2. Alternatives development & evaluation
- 3. Development of a Stormwater Master Plan (SWMP)
- 4. Stakeholder involvement





Objective 1:

Operational Performance Evaluation

- Assess field condition of regional stormwater system
 - Streams
 - Crossings
 - Culverted Streams
 - Basins
 - Major Structures
- Monitoring program to support study





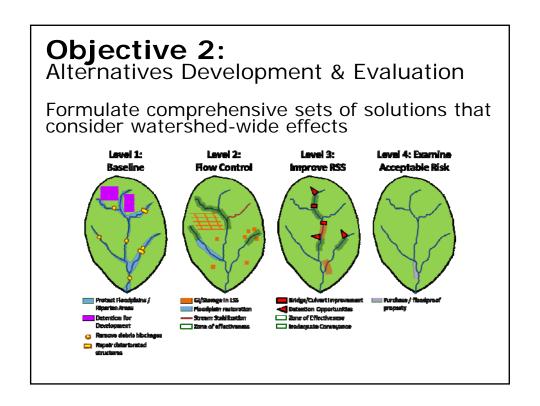
Objective 1:

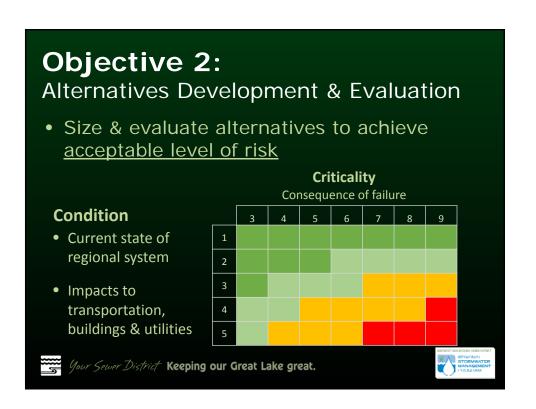
Operational Performance Evaluation

- Utilize field data and hydraulic modeling to identify problems
 - Flooding
 - Structural/erosion
 - Sediment & debris blockages



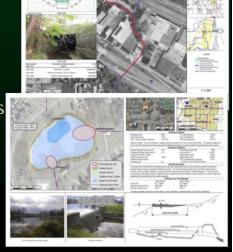






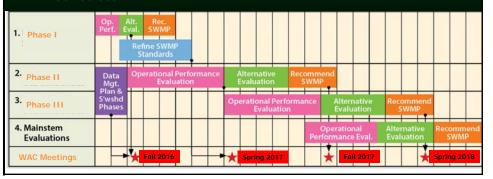
Objective 3: Development of SW Master Plan

- Business case to select preferred alternatives
- Phasing / priorities
- Project definition statements
- Policy recommendations
- Inspection and maintenance recommendations
- Preservation recommendations



Objective 4: Gain Stakeholder Feedback Who Watershed Advisory Committee • Member Communities

- · Other public agencies
- · District staff

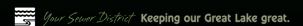


Cuyahoga River South SWMP Key Critical Success Factors

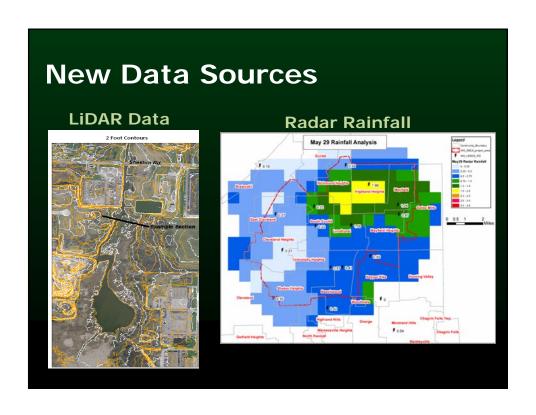
- Complete project within budget and schedule
- Effective data management
- Stakeholder feedback on project plan
 - WAC Meetings
 - Community Work Plans
 - Draft Business Case Summary
 - Draft Implementation Plan
- · Others?

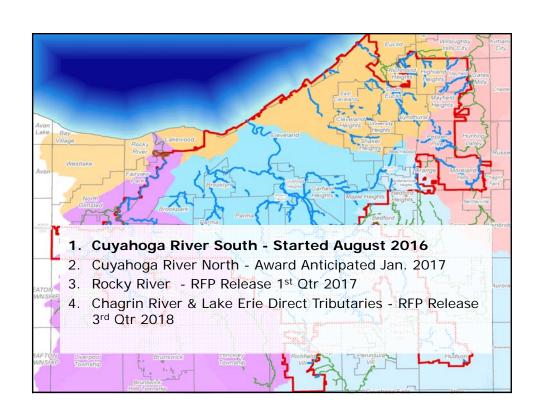
Cuyahoga River South SWMP Data Requests/Needs

- Record drawings
- Inspection reports
- Previous studies
- Recent or future projects











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- Phase II Stormwater Services
 - Service Providers
 - Services to be Provided under RSMP
 - Program Structure
- What's Next

Ohio EPA Stormwater Program "Phase II"

- National Pollutant Discharge Elimination System (NPDES) Permit for Municipal Separate Storm Sewer Systems (MS4s).
- Requires communities to develop a stormwater management program that includes Six Minimum Control Measures.
- All Sewer District Member Communities (except Linndale) included.



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Six Minimum Control Measures

- MCM #1: Public Education and Outreach
- MCM #2: Public Participation and Involvement
- MCM #3: Illicit Discharge Detection and Elimination
- MCM #4: Construction Site Runoff Control
- MCM #5: Post-Construction Runoff Control
- MCM #6: Pollution Prevention/Good Housekeeping for Municipal Operations





Sewer District Required to Provide Support to Communities for.....

- 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 Support through Cooperative Agreements with.....

- Cuyahoga County
 - Board of Health
 - Soil & Water Conservation District
- Summit County
 - Combined General Health District
 - Soil & Water Conservation District
- Lorain County Stormwater Management District
- Applicable watershed organizations specifically providing MCM #1 and #2 services





Summary of Services

WAC Communities in Cuyahoga County

- Cuyahoga County Board of Health
 - MCM #3
 - MCM #6
- Cuyahoga SWCD
 - MCM #1
 - MCM #2
- Applicable watershed organization



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Summary of Services

WAC Communities in Summit County

- Summit County Combined General **Health District**
 - MCM #3
- Summit SWCD
 - MCM #1
 - MCM #2
 - MCM #6
- Applicable watershed organization





Agreement Structure:

Cuyahoga & Summit Boards of Health (BOH)

- Step 1: BOH and Sewer District enter into cooperative agreement.
 - Cuyahoga provides MCM #3 and #6
 - Summit provides MCM #3
 - Sewer District pays BOHs
- Step 2: BOH enter into agreements with interested communities.
- Step 3: Sewer District approves services and pays BOH.



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Next Steps for Boards of Health: What to Look for in Late 2016

- Letter from BOH for 2017 cooperative agreement.
 - As usual, if already receiving services
 - New, if not working with Board of Health
- Please note:
 - Sampling all outfalls with dry weather flow.
 - Coordinating on source tracking.
 - Only monitoring outfalls in Sewer District service area for partially served communities.





Agreement Structure:

Soil & Water Conservation Districts

Ohio Soil and Water Conservation Commission State Matching Fund Policy:

- Revenue received by SWCD from direct payments of stormwater utilities not matched.
- Result: Tripartite contracting arrangement.



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Agreement Structure:

Soil & Water Conservation Districts

- Step 1: SWCD, Sewer District, and interested community enter into agreement.
- Step 2: Communities pay SWCD under agreement.
- Step 3: Sewer District reimburses communities.





Next Steps:

What to Look for in Late 2016

- Letter from SWCDs offering services
 - MCM #1 and #2 from Cuyahoga
 - MCM #1, #2, AND #6 from Summit
 - As usual, if already receiving services
 - New, if not working with SWCD
- Please note:
 - Services available across communities
 - Coordinating on Phase II messaging
 - Different agreement in place if working with watershed organization



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What's Next...

- Sewer District staff in streams doing:
 - Inspections
 - Maintenance
- Design and construction of projects
- Community Cost-Share applications
 - Available funds indicated on handout
- Plan review of submitted SW Management Plans

What's Next...

- WAC Meetings
 - Cuyahoga River North: October 12
 - Cuyahoga River South: October 18
 - Lake Erie Direct Tributaries: October 19
 - Chagrin River Watershed: October 26
 - Rocky River Watershed: October 27
- Next Round in March 2017



Questions

Rachel Webb

Senior Watershed Team Leader 216-881-6600 Ext. 6645 webbr@neorsd.org

Stormwater Program: Community Resourceshttp://www.neorsd.org/communitystormwaterresources.php

