



October 19, 2016

Your Sewer District Keeping our Great Lake great.

REGIONAL REGIONAL STORMWATER MANAGEMENT INCREAM

- 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





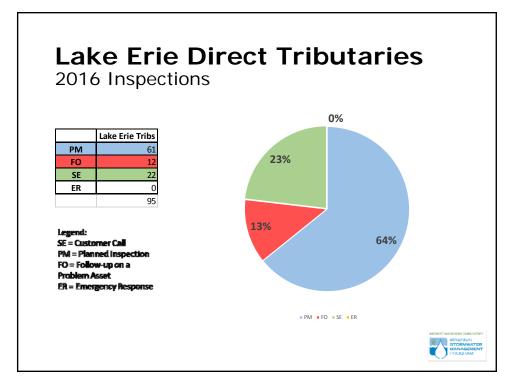
Title V – SW Mgm't Plan Review Member Community Responsibilities

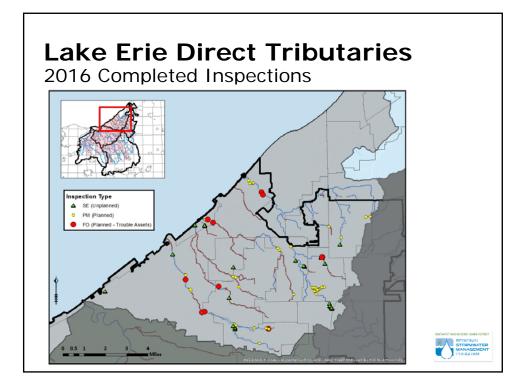
- Submit/cause to submit SW mgm't plans to the Sewer District within 7 days of your receipt of plans
- Ensure minimum standards are used for design, including all applicable federal and state regulations
- Adopt minimum stormwater design and programmatic standards consistent with Ohio EPA NPDES MS4 and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

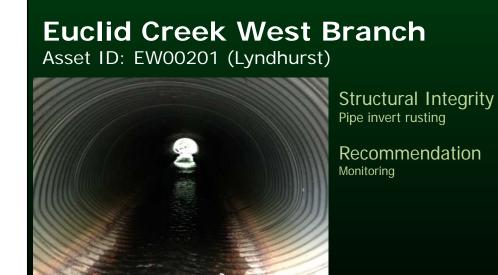
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Euclid Creek East Branch Asset ID: EE00350 (Highland Heights)



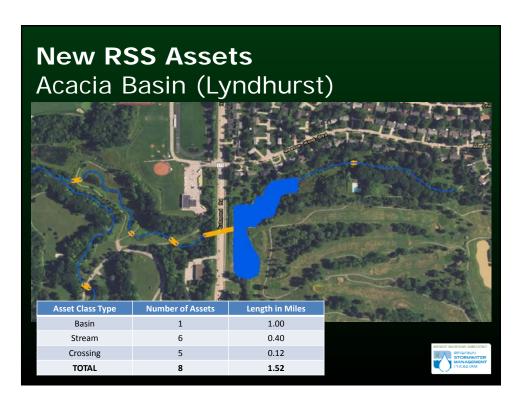
Structural Integrity

Streambank eroding towards parking lot and structure

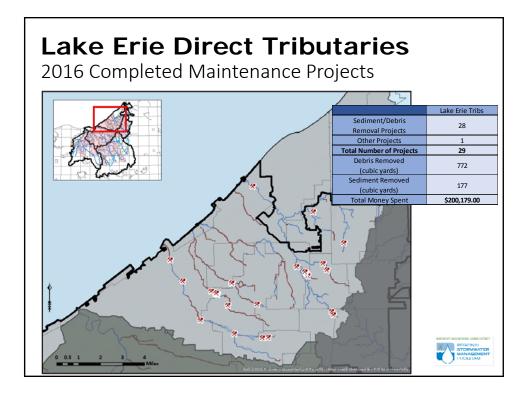
Recommendation

- Further Analysis
- Monitoring

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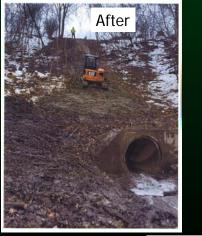
Debris Maintenance: DB00008 Doan Brook (Cleveland)

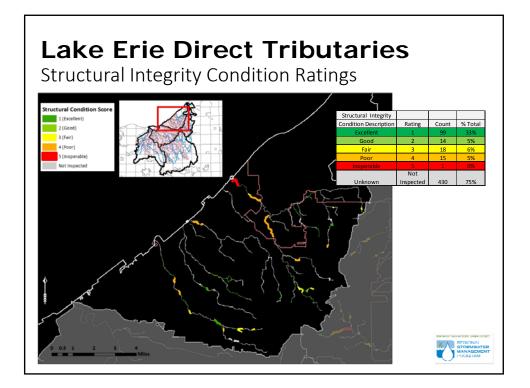


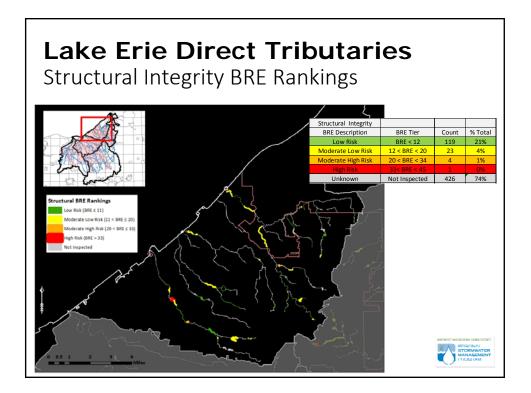
Debris Maintenance: EE00225 Euclid Creek E. Branch(Richmond Heights)

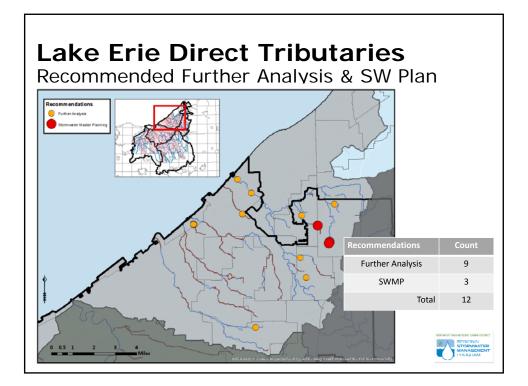


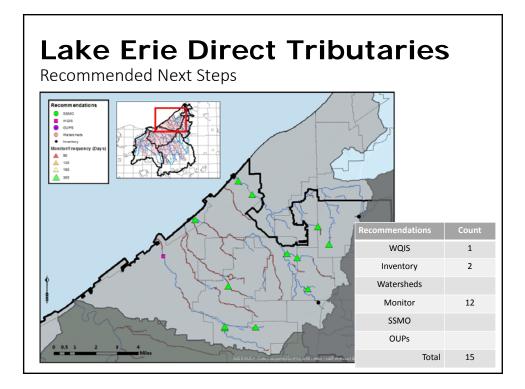
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Stormwater I & M Next Steps

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

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- 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
- Focus for October Watershed Advisory Committee meetings

Community Cost-Share

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

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

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300	MEDICINAL BIOMMATER	Community Cost-Share Prog Applica		
	Community	Cost-Share Program		
	AF	PLICATION		
	Member Community Information			
	Community:		8	
	Primary Project Contact: (Name & Title)		87. 14	
	Mailing Address:			
	Phone Number:			
	Email:			
	Project Information			
	Project Title:			
	Address or Location of Project:			
	Project Start Date:			
	Project End Date:			
	Community Cost-Share Fund Request:			
	Submission Date:			
	Rev 5/2016		1	
				NUMERICAL DAYS OF A RECOMMENSATION OF A RECOMMENS
Your Sewer Dist	kict Keeping our Gre	at Lake great.		REGIONAL STORMWATER MANAGEMENT LINCRIGAM

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

ANTICAT INCOMENDAL AND ADDRESS		3 NO 9 S	
TELECOLAN STORAGEMENT MANAGEMENT MICCOLAN		Community Cost-Share Program Application	
Registration can be done by the New Vendor Registratio	accessing http://www.neorsd. n. If unsure of the Member Cor	s a registered vendor with the District. Vendor org/JugeBer homegage.phg and completing mmunity vendor status, by initiating the New oppear if currently registered as a vendor.	
Project Expenses	Community Cost- Share Expense	Line Item Description	
Professional Services Personnel (Member Community staff only)			
Subcontract			
Equipment			
Materials			
	\$		-
TOTAL	2		
Rev 5/2016		6	
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Community Cost-Share Garfield 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

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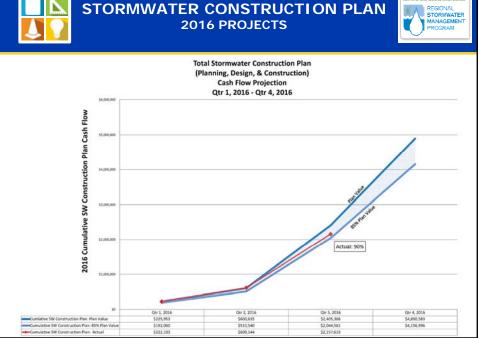


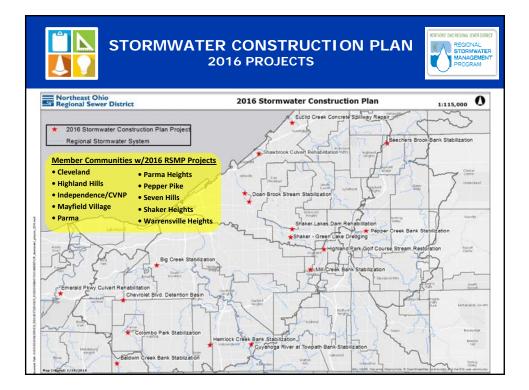
- Welcome
- Program Updates
- Community Cost-Share
- <u>Stormwater Construction Plan</u>
 Status of 2016 Projects
 - Proposed Near Term Projects
- Stormwater Master Plans
- Phase II Stormwater Services
- What's Next

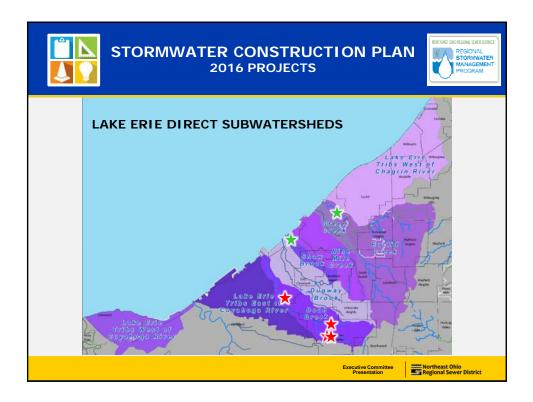


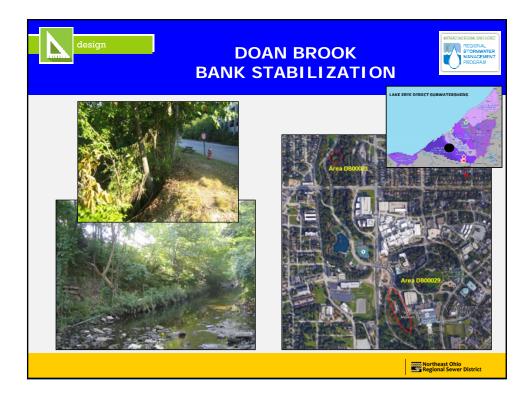
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Storr	nwater Construction Plan: 2016							Manage Generated						
Sto	tus at close of Q3	Estimated Construction Cost	Procurement		Design				Construction					
1911	Highland Park Golf Course Stream Restoration Other Juning (grants waterwater bulget, samawith funded, etc.)	\$1,700,000								Frecking to	credut twee	ter completi 17%	date of 11/2	a/2034,
1413	Chevrolet Blvd. Detention Basin Other hundrig grants, weatherder budget, community funded, etc.)	\$1,702,405								Met	alternation of	explotion dat	of 10(06/30)	
1487	Shaw Brook Culverted Stream Rehabilitation Other funding (grants, walewater budget, consociety fundet, etc.)	\$950,000					2000	0	schedule					
1364	Euclid Creek Concrete Spillway EC00008	\$362,097			_		ius i							
1365	Shaker - Green Lake Dredging DB00101	52,700,000					- 10			On schedu	-			
1320	Shaker Lakes Dam Rehabilitations DB00056 & DB00101	\$3,600,000					200							
1410	Doan Brook Stream Stabilization D800029 & D800021	\$2,350,000			Or sche Xing	e.ie								
1411	Big Creek Stabilization BC00032	\$6,000,000		3	100	Dack	ing behind sch with CSX Rail	fule due to a end	ordination					
1409	Colombo Park 8C00299	\$1,000,000	ter (204		adage NTP age	eximately J.s eruction para	mondhi behi t	d but expect	o next per	+		
1412	Cuyahoga River at Towpath Bank Stabilization CR00132	\$1,500,000		3		De set	ultur -							
1369	Beechers Brook and Pepper Creek Bank Stabilization CW00021 & CW00146	\$2,750,000	975		Advanced in Approxima	energiane Ny 6 martin	et of procures there i if whe	nt. Rufe:						
1490	Hemlock Creek Bank Stabilization	\$1,500,000		16			of procurse sheed of sche							
1491	Mill Creek Bank Stabilization MC00125	\$1,000,000	- 60				al procurry shead of sch	ent. Gule						
T80	Baldwin Ck Bank Stabilization BD00259, BD00257	\$1,200,000	5%											
			5%	12 2			1		(1	1			

STORMWATER CONSTRUCTION PLAN 2016 PROJECTS











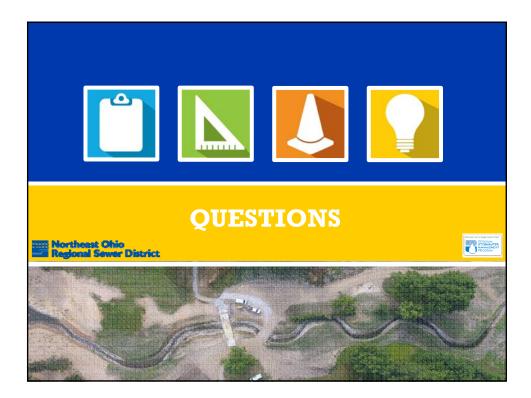




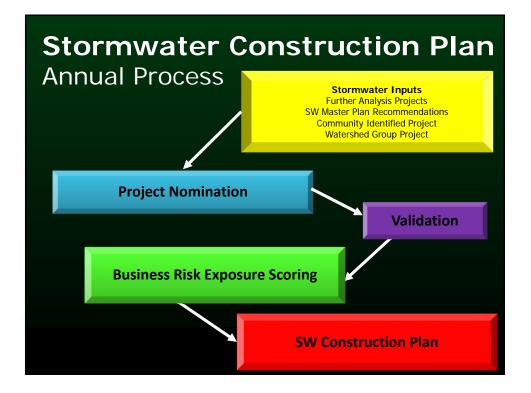












Community Identified Project

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

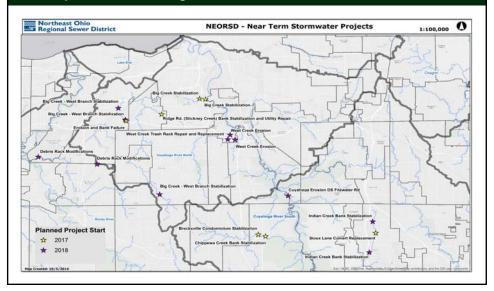
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Community Identified Project

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

Stormwater Construction Plan Proposed Projects



Ridge Road Bank Stabilization Stickney Creek (Brooklyn)



Condominium Stabilization Chippewa Creek (Brecksville)



Stream Bank Stabilization Big Creek (Cleveland)

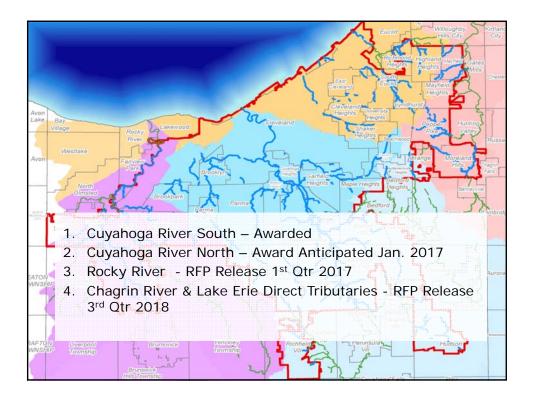


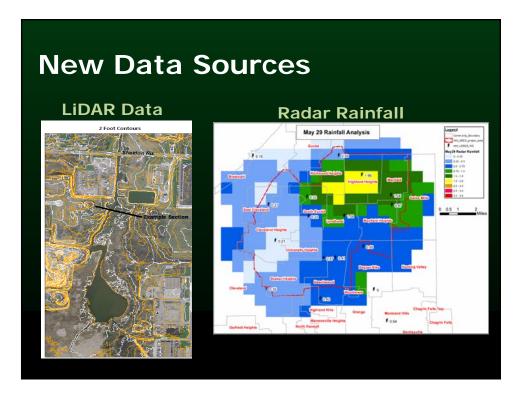


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- <u>Stormwater Master Plans</u>
 Schedule
- Phase II Stormwater Services
- What's Next

Stormwater Master Plans Goals 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, and maintenance activities

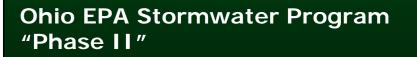






• Welcome

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



- 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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- 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



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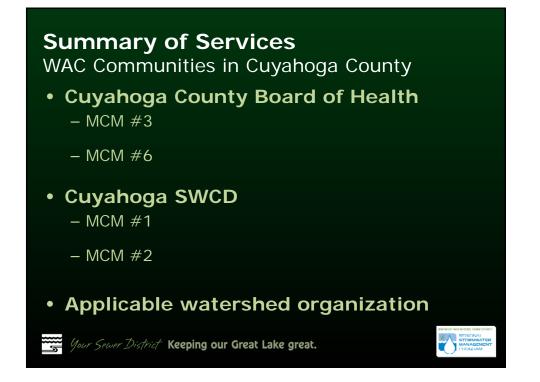
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Providing Support through Cooperative Agreements with.....

- 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





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

- Letter from Board of Health 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.

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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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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

Jeff Jowett Watershed Team Leader 216-881-6600 Ext. 6881 jowettj@neorsd.org

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

