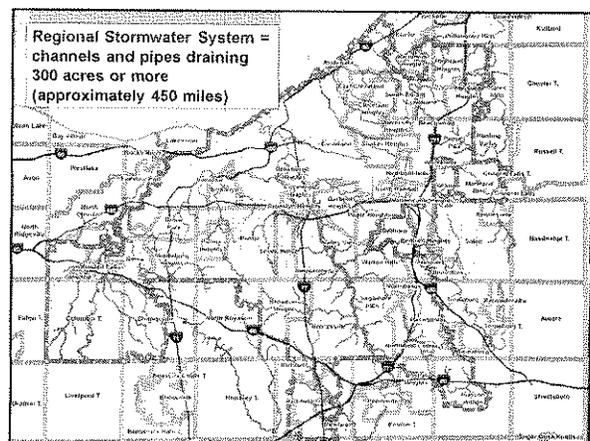
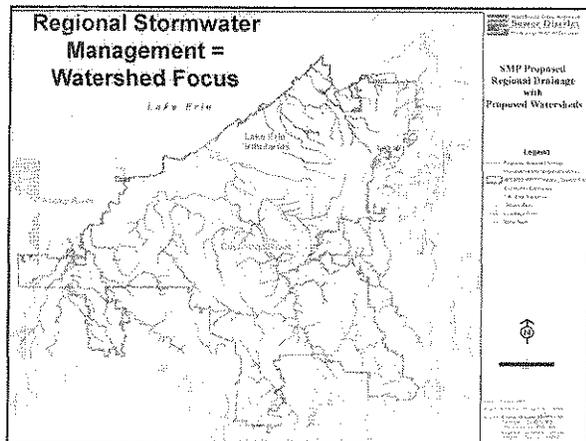


**Regional Stormwater Management**

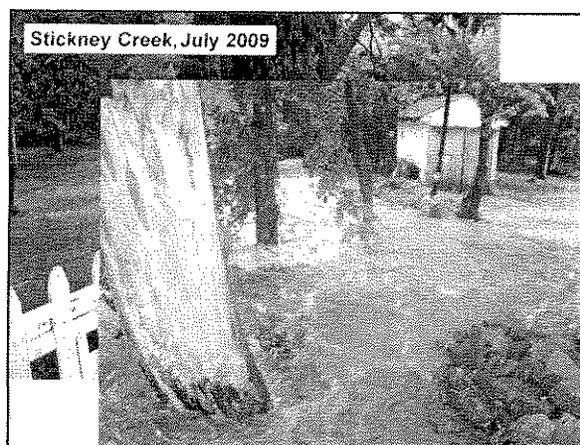
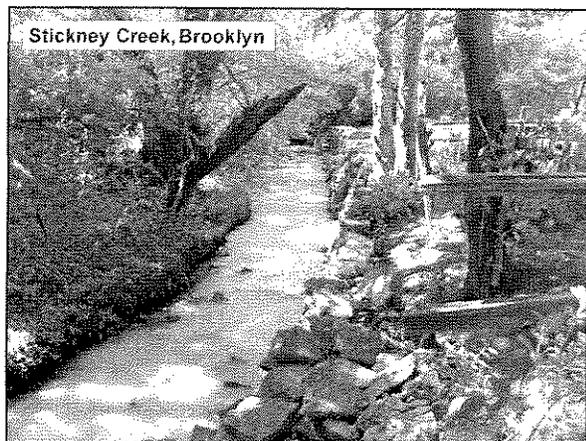
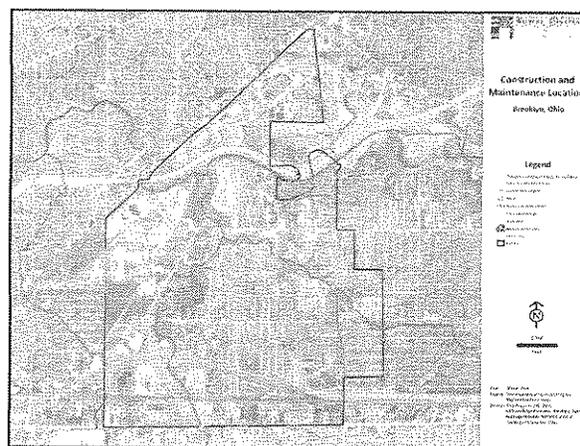
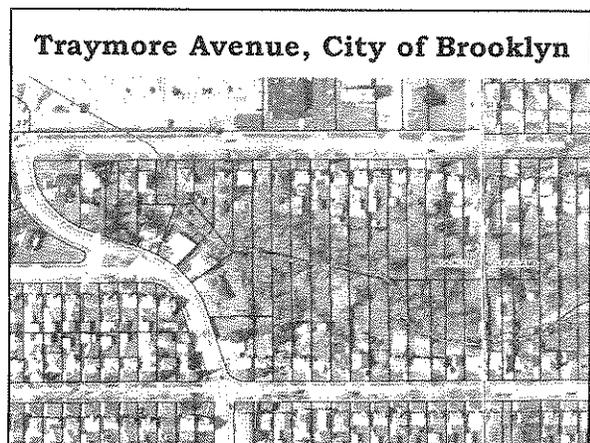
NEORSD Initiative to Address Flooding, Erosion, and Water Quality Problems

**Northeast Ohio Regional Sewer District:**  
Formed by Court Order in 1972 with Responsibility to.....

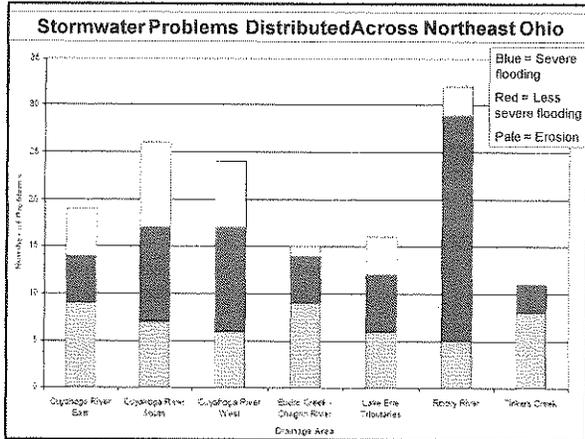
- Operate wastewater treatment plants
- Maintain combined and separate interceptors
- Control combined sewer overflow (CSO)
- Develop regional stormwater management program



NEORSD Proposed Stormwater Program 2009



NEORSD Proposed Stormwater Program 2009



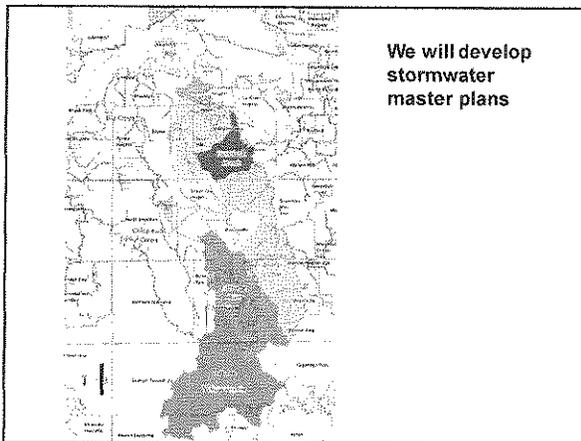
**NEORSD PROPOSED STORMWATER PROGRAM:**

**Stream System Manager**

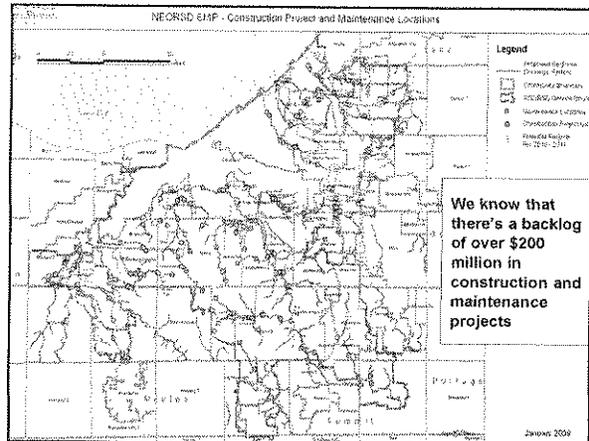
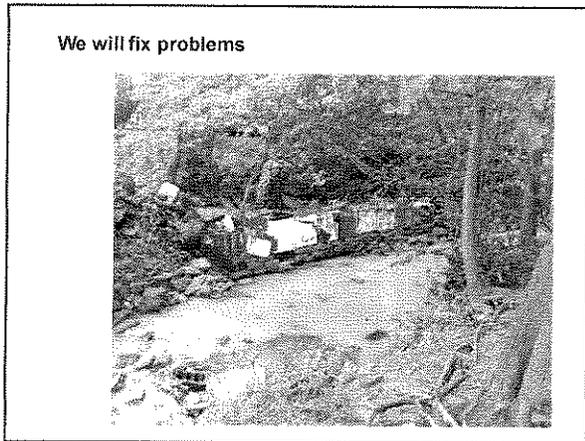
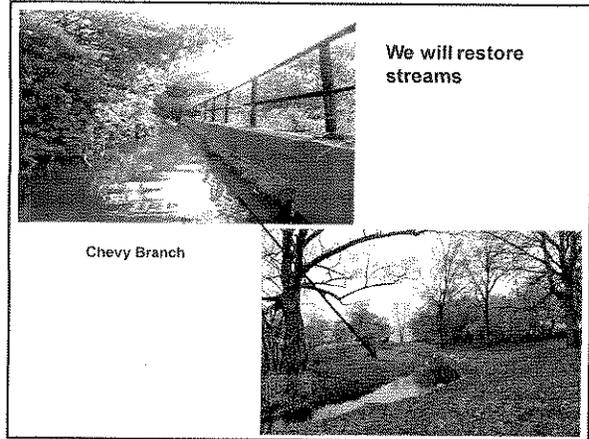
- Assistance along regional stormwatersystem
  - Model and plan solutions within watersheds
  - Inspect and maintain streams, pipes, and culverts
  - Construct stream restoration to control erosion
  - Construct projects to address flooding & water quality

**Watershed Integrator**

- Assistance throughout each community & watershed
  - Modeling/planning assistance on non-regional projects
  - Stormwater Permit compliance assistance
  - Technical guidance and training
  - Public education & improved floodplain management
  - GIS and other technical support



NEORSD Proposed Stormwater Program 2009



# NEORSD Proposed Stormwater Program 2009

Performance Progress List for NEORSD Proposed Regional Stormwater Management Program 2009-2011 September 2009

Activity	Priority	Start Date	End Date	Responsible Party	Status	Notes
Develop Regional Stormwater Management Plan	High	2009-01-01	2009-12-31	NEORSD	Complete	Final plan approved by the Board of Directors.
Implement Regional Stormwater Management Plan	High	2010-01-01	2011-12-31	NEORSD	In Progress	Implementing various measures across the region.
Conduct Stream Assessments	Medium	2009-03-01	2010-03-31	NEORSD	Complete	Assessments completed for all major streams.
Implement Stream Restoration Projects	Medium	2009-06-01	2010-06-30	NEORSD	In Progress	Restoration projects underway in several watersheds.
Develop and Implement Stormwater Management Best Management Practices (BMPs)	High	2009-01-01	Ongoing	NEORSD	Ongoing	Implementing BMPs at various sites across the region.
Conduct Public Education and Outreach	Medium	2009-01-01	Ongoing	NEORSD	Ongoing	Public education efforts ongoing through various channels.
Monitor and Evaluate Program Progress	High	2009-01-01	Ongoing	NEORSD	Ongoing	Regular monitoring and evaluation of program progress.

## NEORSD PROPOSED STORMWATER PROGRAM:

### Stream System Manager

- Assistance along regional stormwatersystem
  - Model and plan solutions within watersheds
  - Inspect and maintain streams, pipes, and culverts
  - Construct stream restoration to control erosion
  - Construct projects to address flooding & water quality

### Watershed Integrator

- Assistance throughout each community & watershed
  - Modeling/planning assistance on non-regional projects
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**We will implement and promote Green Infrastructure**

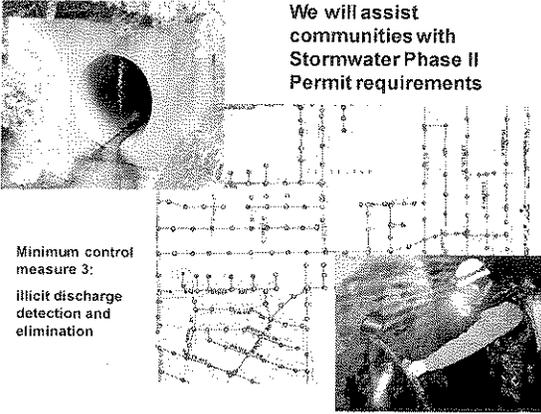
Various green infrastructure projects are shown, including a building with a green roof, a parking lot with permeable pavement, a landscaped area with trees and a walkway, and a street with a green-painted curb.

**We will assist communities with Stormwater Phase II Permit requirements**

Minimum control measures 1 & 2: public involvement and public education

The block includes a 'NO DUMPING' sign, a brochure titled 'Minimum control measures 1 & 2: public involvement and public education', and a photograph of a community meeting where people are gathered around a table.

We will assist communities with Stormwater Phase II Permit requirements



Minimum control measure 3: illicit discharge detection and elimination

### Paying For Better Stormwater Management: Impervious Surface Fee

Residential property:



Roof + driveway  
= 1.0 Equivalent Residential Unit (ERU)  
= 3,000 square feet of impervious surface

"The more you pave the more you pay."

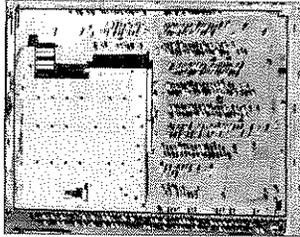
### 2010 Stormwater Fee

$$\frac{\text{Total revenue required (\$)}}{\text{Total impervious area (in ERUs)}} \rightarrow \$4.75 \text{ per ERU per month}$$

### How is a fee calculated?

(Residential property: Roof + driveway = 3,000 sq. ft. = 1 ERU)

Non-residential property:



Roof + parking lot  
= 120,000 sq. ft.  
= 40 ERUs  
= \$190/month  
= \$2,280/year  
(less any credits)

**Residential Stormwater Fee:  
Three Tiers**

- **Small house**
  - Less than 2,000 square feet of impervious surface
  - \$2.85/month, \$34/year
- **Medium house**
  - 2,000 to 4,000 square feet of impervious surface
  - \$4.75/month, \$57/year
- **Large house**
  - More than 4,000 square feet of impervious surface
  - \$8.55/month, \$103/year
- **Homestead rate**
  - For those who qualify for water/sewer
  - \$1.95/month, \$23/year

**Stormwater Fee Credits**

- **Non-residential credits offered for:**
  - Stormwater quality control (25%)
  - Stormwater quantity control (50%)
  - Education from K-12 schools (25%)
- **Residential credits offered for:**
  - Residential stormwater practices (25%)
- **Support implementation of Green Infrastructure across District and facilitate on-going maintenance**

**Timeline for Implementation**

- **November 2009**
  - Present Title V Stormwater Management Code to Board of Trustees
  - Distribute for Member Community review
- **January 2010**
  - Present revised Title V to Board of Trustees
  - Request approval of Regional Stormwater Management Program
- **July 2010**
  - First stormwater bills