

When It Rains, It Drains

**An Overview of
Our Community's New
Storm Water
Management Program**





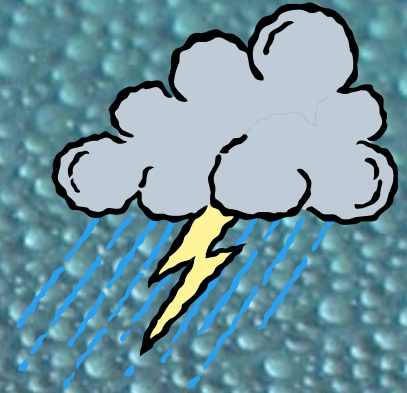
Clean Water

Let's Talk About. . .

- **What storm water is and why it can be a problem in our community.**
- **What our community is doing to manage storm water and how these activities will benefit us.**

What is Storm Water?

- Rain events
- Snow melt
- Other surface runoff and drainage



Where Does Storm Water Go In Our Community?

- Travels over land
- Carried through municipal separate storm sewer system (MS4)
- Discharges into (insert name of water bodies)

A "Point" of Confusion: Point Source vs. Nonpoint Source

- **POINT source**

- Travels through a conveyance system
- Regulated under permit program

- **NONPOINT source**

- Runoff that is not a point source
- Addressed through voluntary programs

Why is Storm Water a Problem?

- **Problem: Decrease in quality**
- **Problem: Increase in quantity**
- **Cause: Developed and disturbed land**











Why is Storm Water a Problem?

- **Problem: Non-storm water discharges enter systems**
- **Cause: Illicit discharges**
- **Cause: Illicit connections**



**household wastewater
(toilet, sinks, etc.)**



catch basin

sewer pipe →



**storm drain
tunnel** ←



**2 UNDERGROUND
SYSTEMS**

Storm Water Pollutants

- Sediment
- Trace Metals
- Nutrients
- Toxic Chemicals
- Bacteria
- Chlorides
- Oxygen Demand
- Thermal Impacts
- Oil and Grease

PA Water Quality and Storm Water Impacts

- **Total of 83,161 stream miles in PA**
 - 54% of total assessed
- **18.1% of assessed waters degraded**
- **Urban runoff #3 source of impairment**
 - 1187 miles of rivers and streams
 - 14.5% of all impaired river and stream miles

From 2001 305(b) Report Update

**Now We Know About
Storm Water and Its
Impacts on Our
Community. . .**

**But What Are We
Doing About It?**

Storm Water Permit Program for Small Communities

- **New federal regulation requires permit for our community**
- **PA DEP created state permitting program to meet federal regulation**

What Does Our Permit Require?

- **Implement a storm water management program**
- **Track progress toward goals**
- **Report on our progress**

Our Storm Water Program

- **Public Education**
- **Construction Site Runoff Management**
- **Illicit Discharge Detection and Elimination**
- **Public Involvement**
- **Post-Construction Storm Water Management**
- **Good Housekeeping and Pollution Prevention**

Public Education and Outreach

- **Distribute educational materials developed by PA DEP**
- **Develop outreach plan for community**

Public Involvement/Participation

- Provide public notice
- Create an public involvement plan
- Hold a public meeting on the program
- Start a volunteer program
 - Water Quality Monitoring
 - Storm Drain Stenciling
 - Stream Clean-Ups

Illicit Discharge Detection and Elimination

- **Enact DEP's model ordinance or update our existing ordinance**
- **Develop storm sewer system map**
- **Implement program to detect non-storm water in system**
- **Educate community on problems related to dumping in storm sewers**

Construction Site Storm Water Runoff Control

- **Enact DEP's model ordinance or update our existing ordinance**
- **Coordinate with County Conservation District**
 - **Erosion and Sediment Control Program**
 - **NPDES Construction Storm Water Permitting**
- **Educate construction industry**

Post-Construction Storm Water Management

- **Adopt PA DEP's model storm water management ordinance**
- **Ensure proper operation and maintenance of post-construction controls**

Pollution Prevention/ Good Housekeeping

- **Implement O & M program that focuses on pollution prevention**
- **Train community employees on good housekeeping practices**
- **Educate community on pollution prevention**

**How Will Our
Storm Water
Program Benefit
Our Community?**



Expected Benefits of Our Storm Water Program

- **Enhanced fishing**
- **Enhanced opportunities for recreation**
- **Reduced flood damage**
- **Drinking water benefits**
- **Navigational benefits**
- **Reduced illness**
- **Enhanced aesthetic value**

How Can You Get Involved?

- **Pass on information about the storm water program to other community residents**
- **Report any storm water issues to (insert name of appropriate contact)**

For More Information. . .

- **(Insert appropriate names, phone numbers, email addresses, web sites, etc.)**