

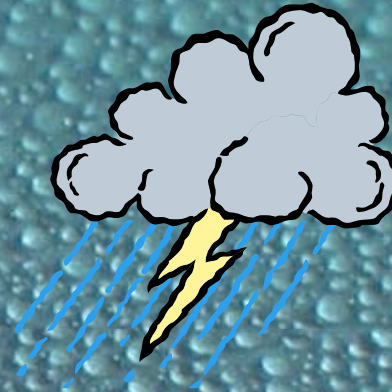
When It Rains, It Drains

An Overview of
Fairview Township's
Storm Water
Management Program



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 Yellow Breeches Creek & Susquehanna River

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









STREAM BANK EROSION



MORE EROSION



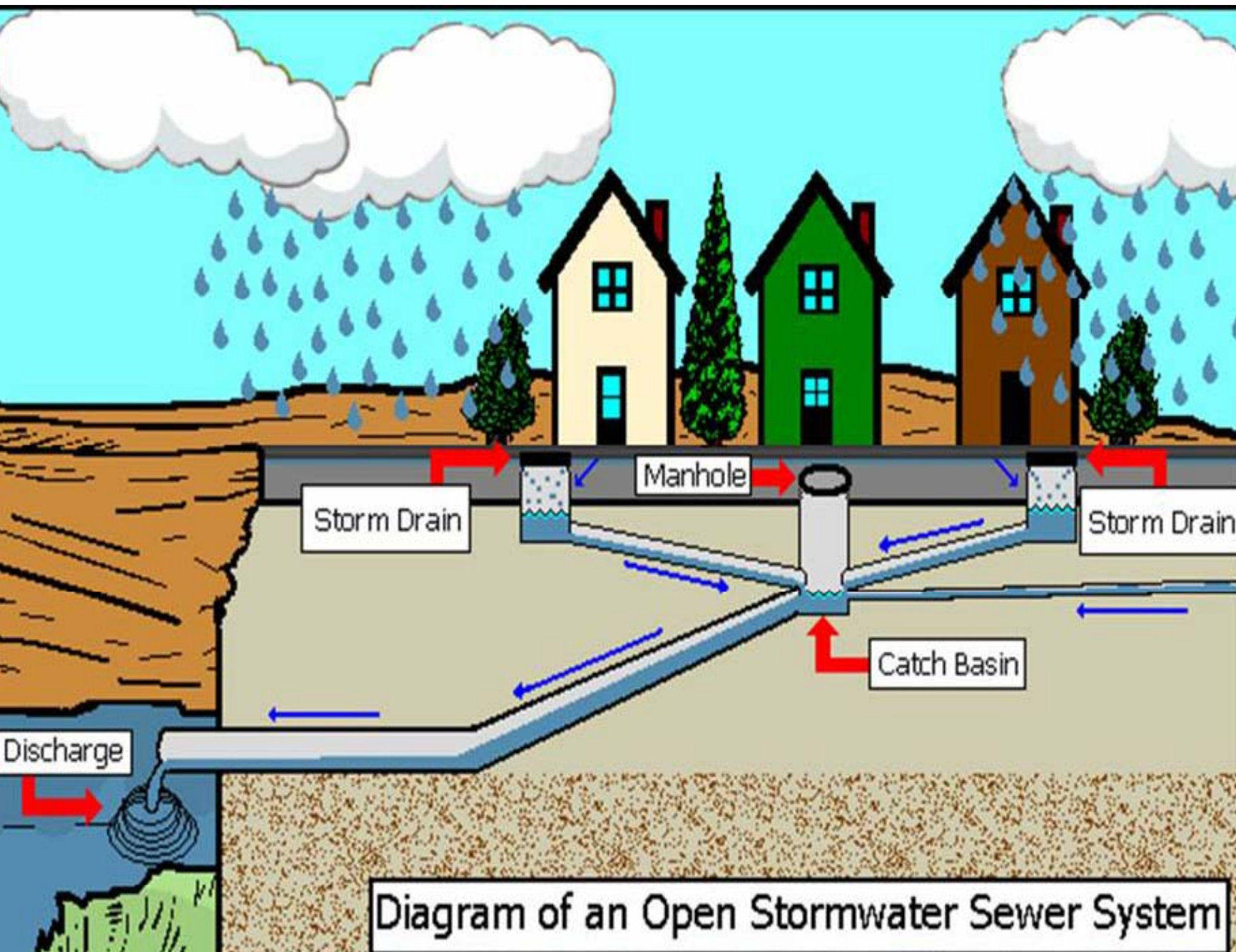




Why is Storm Water a Problem?

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





Storm Water Pollutants

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

PA Water Quality and Storm Water Impacts

- Total of 83,161 stream miles in PA
 - 54 % of total assessed
- 18.1 % of assessed waters are impaired
- Urban runoff #3 source of impairment
 - 1187 miles of rivers and streams
 - 14.5 % of all impaired river and stream miles
 - #2 source is Municipal point source
 - #1 source is Agriculture



**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

•LOCAL BOY SCOUT TROOP 284
ASSISTED WITH INSTALLING STORM
DRAIN PLACARDS



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 Fairview Township @ (717)901-5298

For More Information. . .

- Please visit the MS-4 tab on the Township Website
<http://twp.fairview.pa.us/Township-Departments/MS-4/Stormwater>
- Contact Paul Rodrigo (MS-4 Coordinator) @ 901-5298 or email prodrigo@twp.fairview.pa.us
- Don Martin (Twp. Manager) @ 901-5210 or email donmartin@twp.fairview.pa.us

Chesapeake Bay before storm water runoff and after.

