

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







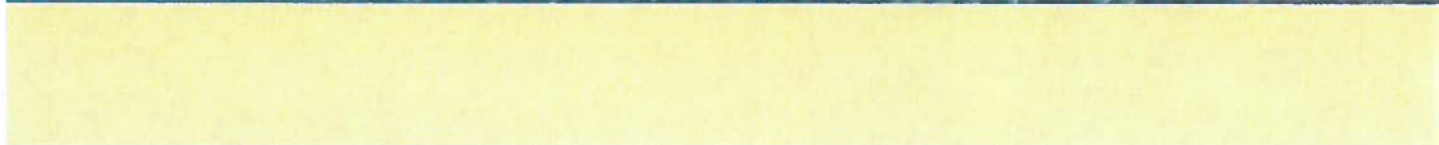
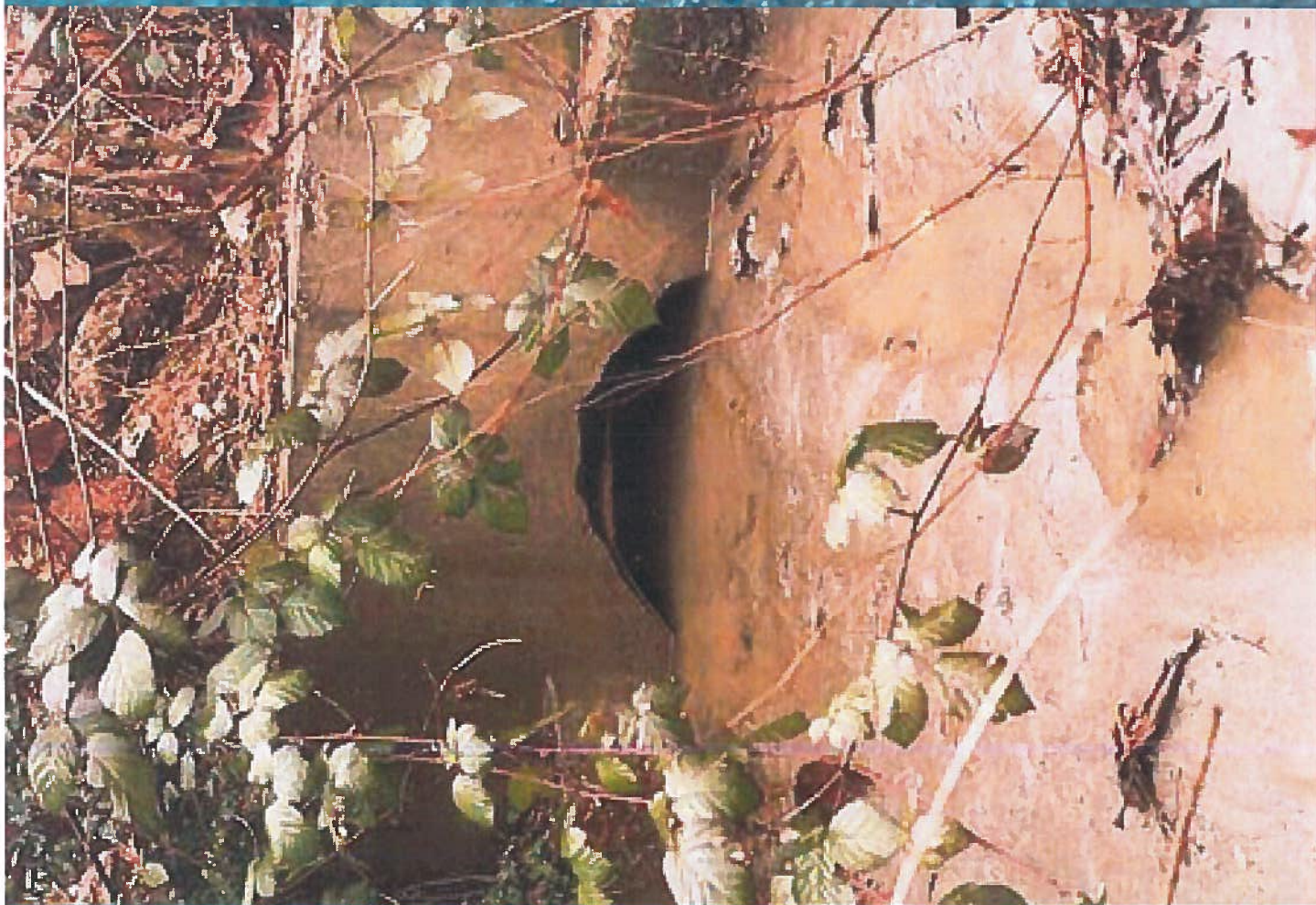


STREAM BANK EROSION



MORE EROSION







Why is Storm Water a Problem?

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



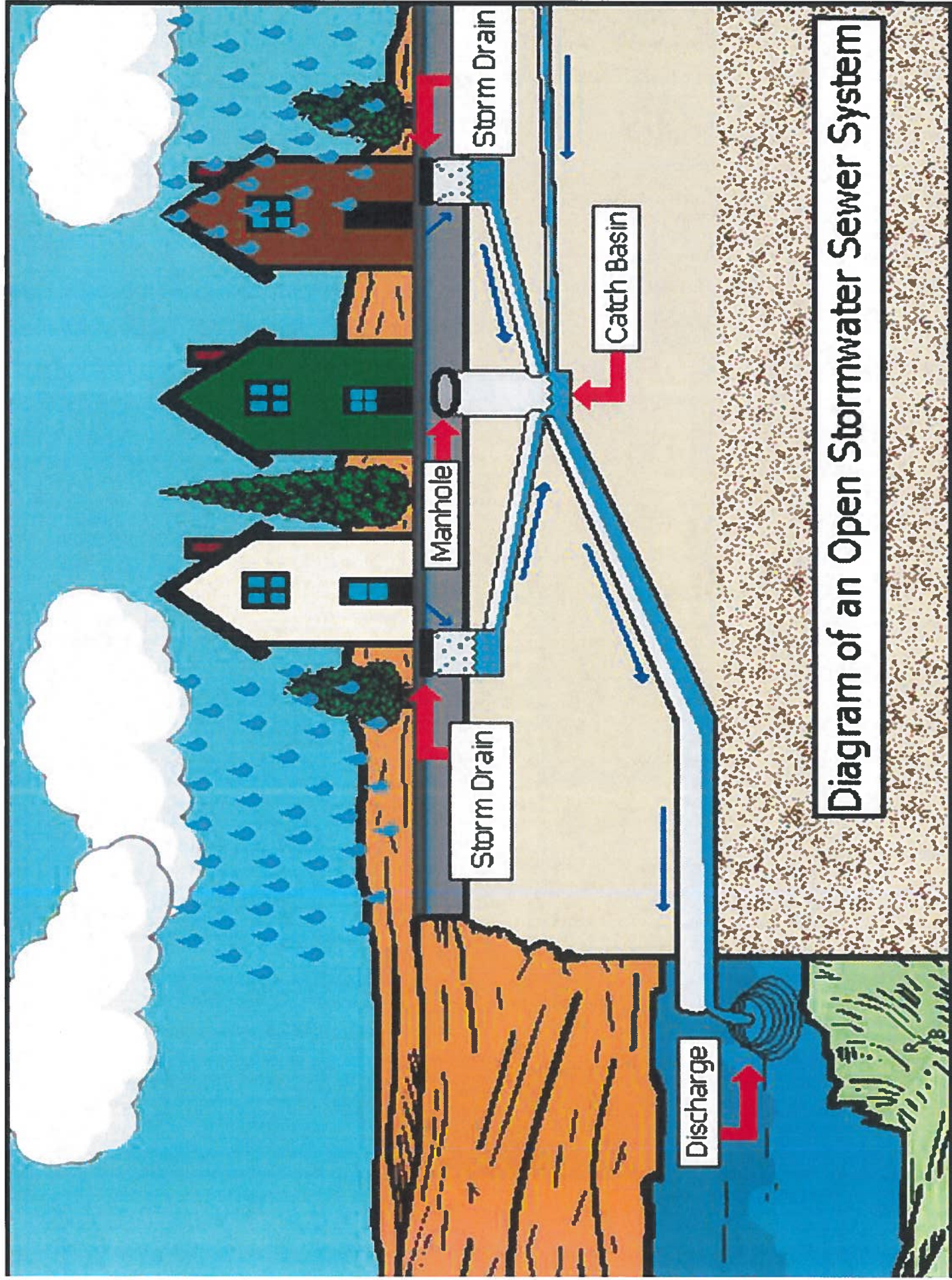


Diagram of an Open Stormwater Sewer System

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 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

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**
- **Public Involvement**
- **Construction Site Runoff Management**
- **Post-Construction Storm Water Management**
- **Illicit Discharge Detection and Elimination**
- **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

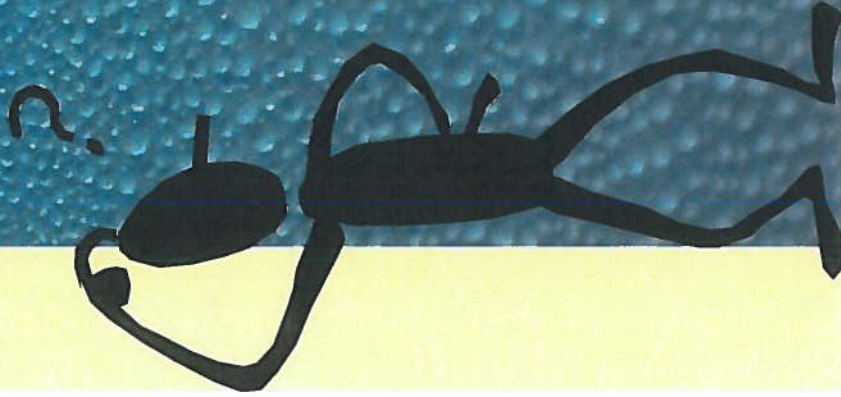
Post-Construction Storm Water Management

- **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 Fairview Township @ (717)901-5200

For More Information...

- **Contact:**

- **Paul Rodrigo (717) 901-5272**

- **Email: prodrigo@twp.fairview.pa.us**

- **OR**

Don Martin (717) 901-5210

Email: dmartin@twp.fairview.pa.us

Chesapeake Bay before storm water runoff and after.

