Ferguson Township **Municipal Separate Storm** Sewer System (MS4)

Stormwater Management Program Review

May 16, 2022 Board of Supervisors Meeting



Ferguson Towns

NPDES - Phase II MS4 Permit

National

Pollution

Discharge

Elimination

System

Municipal

Separate

Storm

Sewer

System

Boggs Township

What Does Our Permit Require?

- Implement a Stormwater Management Program (including SWM Ordinance)
 - Six Minimum Control Measures
 - Track progress toward goals
 - Document, Document, Document
 - Report on our progress



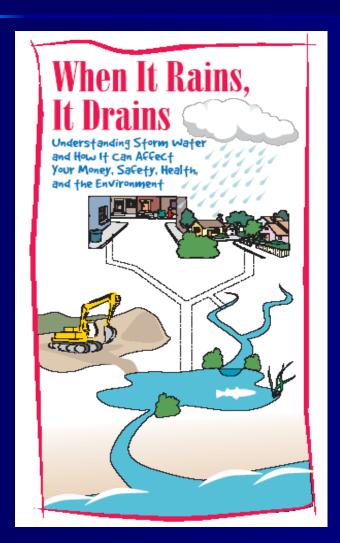
Develop and Implement a Pollution
 Reduction Plan (PRP) for Chesapeake Bay
 and Impaired Waterways

Stormwater Management Program Six Minimum Control Measures

- 1. Public Education and Outreach
- 2. Public
 Involvement and
 Participation
- 3. Illicit Discharge Detection and Elimination

- 4. Construction Site Runoff Management
- 5. Post-Construction
 Stormwater
 Management
- 6. Pollution Prevention and GoodHousekeeping

1. Public Education and Outreach



- Develop a writtenPublic Education &Outreach Program(PEOP)
- Send Out Educational Material & Track Who Gets Them.

PEOP Strategies

- Newsletters 2 per year to all property owners
- Brochure "Stormwater Pollution Prevention" with all zoning permits
- Poster in lobby
- Spring Creek Watershed Map
- Fact Sheets newsletter and website
- Storm Drain Stenciling
- Website MS4 Partners.org & Twp page

2. Public Involvement and Participation

- Develop Written Public Involvement/Participation Plan (PIPP)
- Provide Opportunities for Public Involvement
- Hold 1 Public MeetingPer Year



PIPP Strategies for Notification

- Legal Notices of public meetings –
 CDT
- CDT Advertisements
- Optional Press Releases
- Website (www.twp.ferguson.pa.us/stormwatermanagement/)
- Newsletter

PIPP Strategies for Participation

- Partner with Other Groups
 - Watershed Clean-up
 - Rain Barrel Workshop
 - Water Resources Monitoring Project
- Storm Drain Stenciling
- Adopt a Highway
- Public Meeting
- Ordinance & PRP Development

3. Illicit Discharge Detection and Elimination



Report any sighting of illicit discharge to Township Engineer

- Keep **Stormwater** Clean
- Everyone **Participates**
- Screening & Response



IDDE Strategies

- Maintain Storm Sewer System Map
 - GIS Map
 - Update for Development / Capital Projects
- Ordinance Prohibits Illegal Discharges
 - Update Ordinance by 2024
- Annual Dry Weather Screenings
- Investigate Complaints
- Proceed to Eliminate Illicit Discharge & Report/Document



MS4 System Map



MS4 System Map



4. Construction Site Stormwater Runoff Control

- This MCM is now shared with DEP through the Centre County Conservation District (CCCD).
- Memorandum of Understanding (MOU) with CCCD to be updated by 2024.
- New tracking and notification requirements for Township.
- Update Stormwater Ordinance by 2024.

5. Post-Construction SWMSP

- SW Ordinance to be updated prior to 2024.
- Requires developers to install and maintain BMP's
- Permanent Ownership,Maintenance, andInspection Requirements





PCSM Strategies

- Maintain GIS Layer of BMPs
 - All Permitted BMPs since 2003
 - All documents being migrated to GIS.
- Inspection of BMPs
 - Update inventory 69 sites, 158 BMPs and counting.....
 - Inspect 20% each year of permit cycle
- Enforcement per Ordinance
- Tracking



6. Pollution Prevention / Good Housekeeping

- BMP#1 Evaluate and Inventory all BMPs with Township Responsibility (annual review)
- BMP#2 Develop/Implement/Maintain Written
 Operation & Maintenance Program (O&M)
- BMP#3 Develop/Implement a Training Program for Appropriate Topics / Attendees

Training provided to: All municipal employees, CRPR field employees, elected officials, police & fire responders, and contracted personnel – (annually)

Pollution Prevention Strategies

- Fleet Maintenance Operations
- Fleet Fueling Operations
- Salt Storage / Application
- Road / Storm Sewer System **Maintenance**
- Waste Collection
- PPC / SPCC Program



Pollution Reduction Plan (PRP)

Objective – Implement PCMs to produce tangible improvements to the quality of stormwater discharges in the Chesapeake Bay Watershed and impaired local waterways

Plan Components -

- Describe Planning Area / Evaluate Pollutant Loading
- Propose PCMs to reduce pollutants

Approved PRP

- Completed study/plan development by consultant with MS4 Partners
 - Approved with current MS4 Permit.
 - Determined requirement for reduction of pollutant loading by 10% (this permit cycle).
 - Identified PCMs to be implemented during permit cycle to address permit requirements.
- Design, obtain easements, permitting, and construction of PCMs within permit cycle.



Approved PRP

Table D.4-3. Ferguson Township Proposed Primary BMP TSS Load Reduction Summary

Watershed/BMP Description	Primary/ Secondary	BMP Load Reduction (lb./yr.)	Partner Share (lb./yr.)	Notes
Beaver Branch				
Pinney Ridge Stream Restoration (A2)	P	40,250	40,250	
Wyoming Avenue Stream Restoration (B7)	S	23,000	23,000	
Required TSS Load Reduction			10,070	
Excess Treatment Primary Projects			30,180	
Excess Treatment Primary and Secondary Projects:			53,180	
Spring Creek				
Pine Grove Mills Slab Cabin Restoration (A4)	Р	40,250	250	Allocating 250 lbs. from Slab Cabin Run Watershed (Project A4 below) to meet Spring Creek Requirements.
Required TSS Load Reduction			146	
Excess Treatment Primary Projects			104	
Excess Treatment Primary and Secondary Projects:			104	
Slab Cabin Run				
UNT Slab Cabin Run Restoration - Duck Pond Channel (A3)	-	115,000	20,125	Shared with Penn State, College Township, and Borough of State College.
Pine Grove Mills Slab Cabin Restoration (A4)	P	34,500	34,250	
Myer-Everhart Streamside Buffer (B1)	S	1,501	1,501	100% allocated but may be shared with College and Harris Townships, and Borough of State College (all or some).
Required TSS Load Reduction			49,309	
Excess Treatment Primary Projects			5,066	
Excess Treatment Primary and Secondary Projects:			6,567	

MS4 – SWMP Review

Open Discussion