



Description

Stormwater flowing through separate storm sewer systems is untreated prior to being discharged to surface waters, which means that pollutants like sediment, chemicals, oils, and pet waste that interact with stormwater are carried right to our waterways. Consequently, Pennsylvania's Municipal Separate Storm Sewer (MS4) program requires municipalities within urbanized areas having separate storm sewer systems to obtain a permit to discharge stormwater into local streams and rivers with the goal of improving water quality. This webinar will discuss stormwater issues in Pennsylvania and MS4 permit requirements with a focus on portions of the Stormwater Management Programs that are likely to affect development.

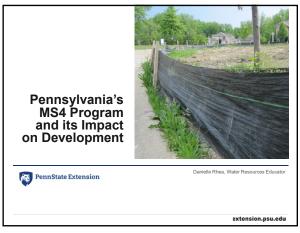
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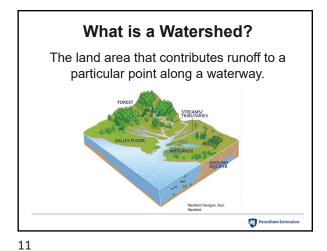
Learning Objectives

- 1. Define stormwater and understand how stormwater impacts water quality.
- 2. Define MS4 and understand what causes an entity to be regulated under Pennsylvania's MS4 program.
- 3. Understand permit requirements for municipalities under the MS4 program, particularly the components of the Stormwater Management Program.
- 4. Understand the importance of construction site erosion control and post construction stormwater management for reducing both short and long term impacts of development on water quality.



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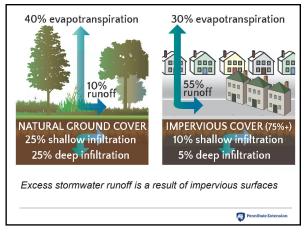




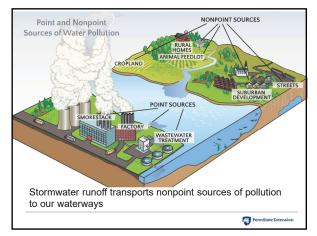






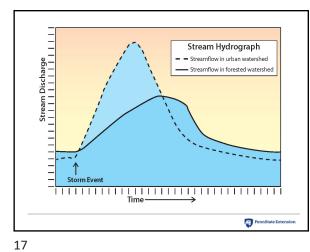












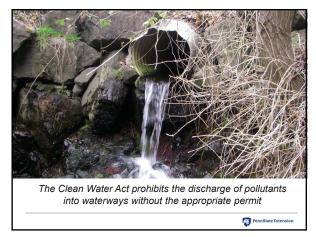




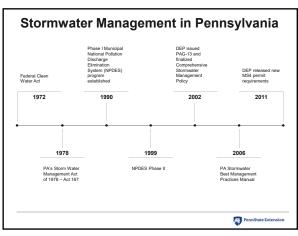






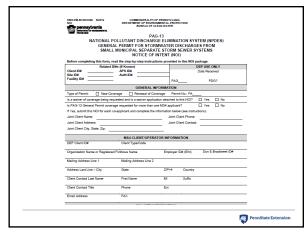


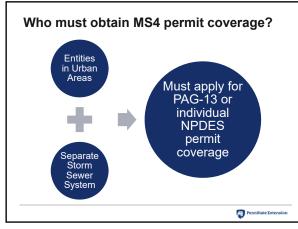




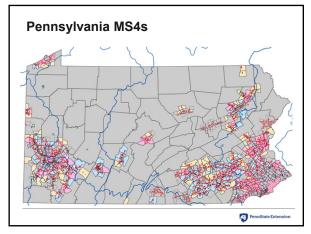








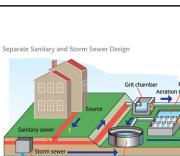


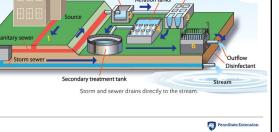


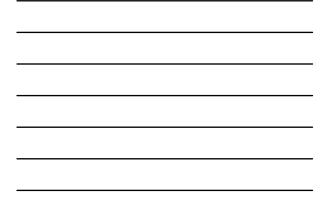














Minimum Control Measures

MCM #1: Public Education and Outreach on Stormwater Impacts

MCM #2: Public Involvement / Participation

MCM #3: Illicit Discharge Detection and Elimination

MCM #4: Construction Site Stormwater Runoff Control

MCM #5: Post-Construction Stormwater Management (PCSM) in New Development and Redevelopment

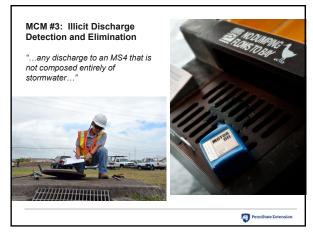
MCM #6: Pollution Prevention / Good Housekeeping

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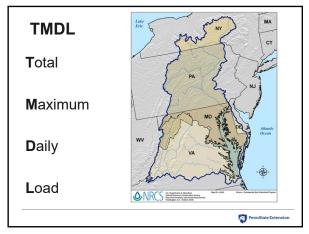
















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Implications of PRP

- Reduce stormwater flows and pollutant loading
 - ° Stream/floodplain restoration projects
 - ° Stormwater retrofits
 - 。Green infrastructure
 - 。 Post construction stormwater management
 - $_{\circ}\,$ Focus on new development

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Potential Impact of PRP on New Development

- Require additional BMPs to assist with meeting PRP goals?
- Promote creative approaches to stormwater management?

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