Stormwater Permit Awareness

Presentation Host:

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Presentation Courtesy of Cumberland County Soil and Water Conservation District

January 25, 2023





Presentation overview

What is MS4?
Obligations in new MS4 permit effective July 1, 2022
Municipal staff, budget, and ordinance updates
New Ordinance briefing
ESC Discussion





What is Stormwater? Precipitation or melted snow that flows over the land...



...plus anything that is carried with it.



Common Pollutants

- Soil, sand, and sediment
- Fertilizer
- Pesticides
- Pet waste
- Road salt
- Litter
- ...And more











Polluted Runoff





Poll Question #1



Permit Awareness

- Regulated municipalities must have a permit to direct stormwater runoff to water bodies in their communities while minimizing pollutants.
 - Municipal Separate Storm Sewer System (MS4)
- 5-year permit cycles, first permit issued in 2003
- Additional regulations in each permit cycle
- Now in year <u>1</u> of the current 5-year permit.





Regulated Entities are Subject to:

- Full compliance with permit requirements in six steps
- Improvement and protection of impaired water bodies
- Heightened scrutiny from DEP, EPA, and environmental groups
- Higher costs than non-regulated entities





Cost of Compliance vs. Non-Compliance

- More cost-effective to comply with requirements
- If noncompliant:
 - Need to pay fine per day, per violation
 - Need to pay to perform tasks to come into compliance to end fines







Interlocal Stormwater Working Group (ISWG)

14 regulated municipalities & 2 nested MS4s in the Greater Portland and Saco areas

- Working cooperatively to address stormwater permit requirements
- Coordinated by Cumberland County Soil & Water Conservation District
- Satisfying permit's education requirements and parts of public participation



Benefits of Regional Collaboration

- Collaboration equals cost savings:
 - Meet education requirements without having to hire a dedicated staff person
 - Awarded matching grants, interns, and other programs benefits
- Consistent messaging across the region
 Advocate with regulators
 Collaborate with partners
- Provide framework for collective problem solving, training, and information exchange







Parts of the Permit





Requirement #1 Public Education & Outreach:

Educate new targeted audiences on stormwater pollutants and how to reduce pollution.









Requirement #2 Public Participation:

Provide the public an opportunity to participate in your town's stormwater program.







Requirement #3 Illicit Discharge Detection & Elimination:

Identify and eliminate sources of pollution. Carry out long-term maintenance and mapping of all stormwater infrastructure.

NEW: Dry weather outfall monitoring requires field and lab testing. Yarmouth has completed our first round of sampling.





Requirement #4



Construction Site Runoff Control:

Ensure that construction on both public and private property does not impact water resources.

NEW: Requires ordinance or other regulatory mechanism.



Requirement #5 Stormwater Management after Construction:

Implement new development and redevelopment stormwater ordinances; encourage developers to use techniques to reduce impact of development on water resources.

NEW: Requires LID ordinance, new site maintenance schedule and inspector qualifications





Requirement #6 Good Housekeeping & Pollution Prevention:

Prevent pollution from municipal operations and facilities; educate municipal staff about practices to reduce polluted runoff.





Urban Impaired Stream Requirements (NEW)

- 3 "BMP" per urban impaired stream per community
 - Community-specific BMP
 - ISWG chloride reduction BMP
 - ISWG nutrient reduction BMP
 - Does not apply to Yarmouth and a few other communities





Poll Question #2



How does this affect the Planning Board?

- Several chapters of Yarmouth's Code of Ordinances will have to be updated including, but not limited to:
 - Chapter 320 Stormwater Discharge Ordinance Completed
 - Chapter 330 Post Construction Stormwater Management Ordinance Completed
 - Chapter 601 Subdivision Ordinance
 - Chapter 701 Zoning Ordinance
 - Chapter 702 Site Plan Review Ordinance
- Changes will include referencing the appropriate Erosion and Sedimentation Control (ESC) requirements and LID technical requirements;



Accountability

- Must keep comprehensive records documenting compliance for all requirements
- Annual reports
- Audits
 - Conducted by EPA and/or DEP
 - All regulated entities can anticipate being audited at least once per permit cycle





Erosion and Sedimentation Control (ESC) What are we talking about?





Erosion & Sedimentation Control: Tracking







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Erosion & Sedimentation Control: Silt Fence







Erosion & Sedimentation Control: Inlet Protection











Erosion & Sedimentation Control: Ditch Line Stabilization







Erosion & Sedimentation Control: Permanent vs. Temporary Site Stabilization





Erosion & Sedimentation Control: Materials Storage





Erosion & Sedimentation Control: Materials Storage





Erosion & Sedimentation Control: Dewatering





This is what we hope to avoid.





Poll Question #3





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