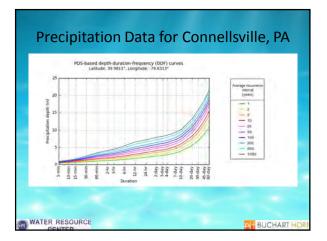
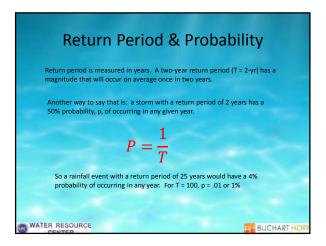
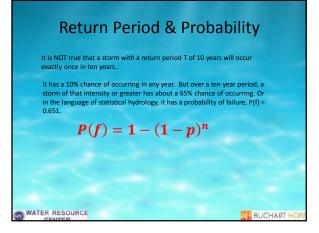


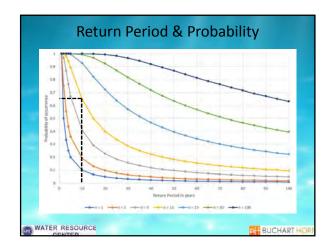
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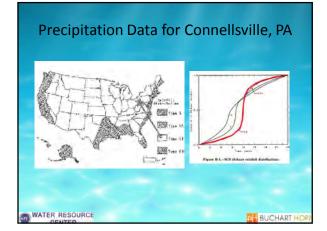


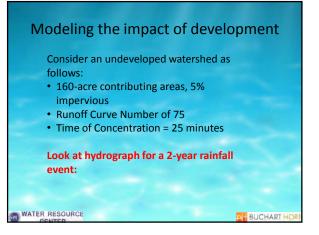
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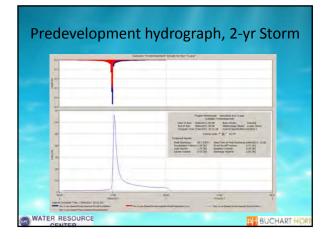


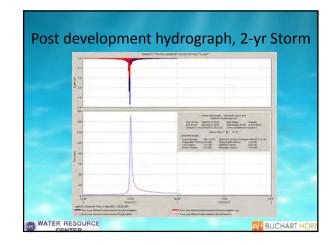


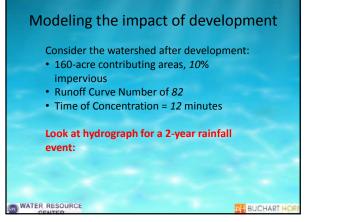


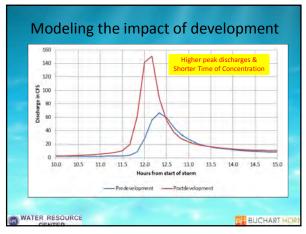












Modeling the impact of development Consider the watershed after development: • 160-acre contributing areas, 10%

imperviousRunoff Curve Number of 82

WATER RESOURCE

• Time of Concentration = 12 minutes

Look at hydrograph for a 2-year rainfall event:

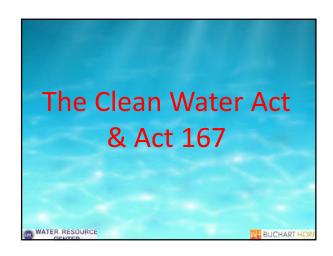
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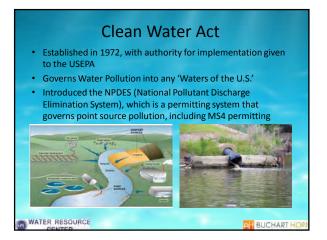










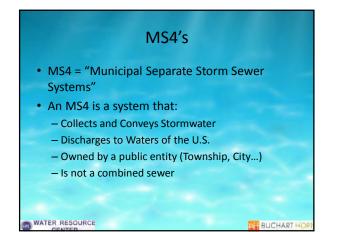






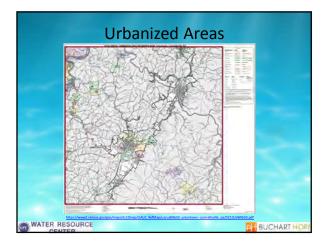














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MS4 Permit Elements

- Minimum Control Measures (MCMs)
- Pollutant Control Measures (PCMs)
- Pollutant Reduction Plans (PRPs)

WATER RESOURCE

• Other Requirements (waste disposal, etc)

MS4 Permit Elements

- Annual Report to DEP
- \$500 Annual Fee for General Permits

WATER RESOURCE

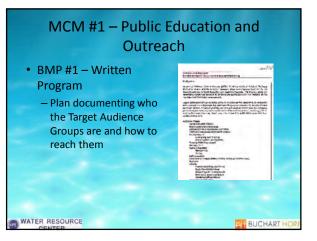
 Collaboration on permits and/or plans with other municipalities is encouraged (York County)



BUCHART HO





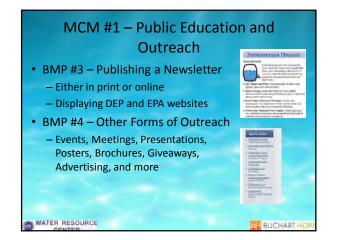


MCM #1 – Public Education and Outreach

BMP #2 – Target Audience Groups

- A List (often with contact info)
- Residents, Businesses, Developers, Schools, Municipal Employees, and more









MCM #3 – Illicit Discharge Detection and Elimination

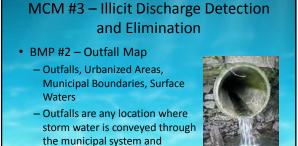
Written Plan

 Includes identifying high risk areas, procedures for identifying and dealing with illicit discharges and complaints, and mechanisms for gaining access to private property



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WATER RESOURCE

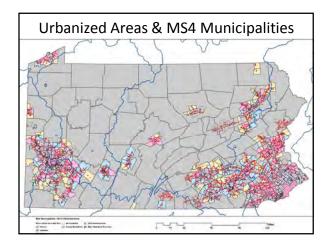


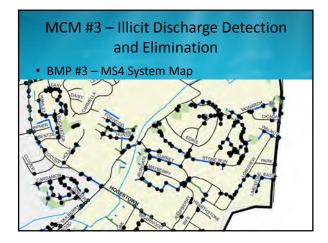


WATER RESOURCE

reaches the surface water

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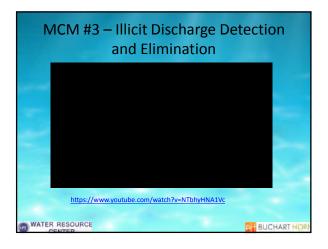
MCM #3 – Illicit Discharge Detection and Elimination

- BMP #3 MS4 System Map
 - Good opportunity to gather information while mapping on pipe/inlet/basin condition
 - Information that can be used to assess the system as a whole, determine risk of failure, and prioritize repairs – Proactive instead of Reactive









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MCM #3 – Illicit Discharge Detection and Elimination

- BMP #4 Dry Weather **Outfall Screenings**
- Once every 5 years to ensure there are no septic/non-permitted onnections or dumping

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_	Procedures for	testing
	polluted water	

WATER RESOURCE

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MCM #3 – Illicit Discharge Detection and Elimination BMP #5 – Stormwater Ordinance - Must prohibit non-stormwater discharges to the MS4 BMP #6 – Education Outreach - Outreach focused on illicit discharges - A reporting mechanism (phone number, form, etc) to document and correct all issues

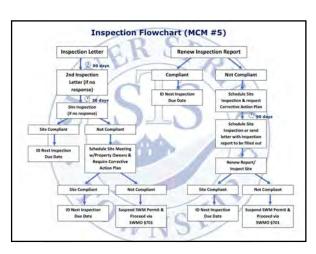
WATER RESOURCE





MCM #5 – Post Construction Stormwater Management • BMP #3 – Operation and Maintenance of **BMPs** for larger projects - Develop a BMP inventory from 2003 to present - Ensure adequate Operation and Maintenance of those BMPs through some kind of inspection program WATER RESOURCE

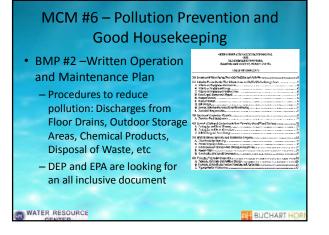
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MCM #6 – Pollution Prevention and Good Housekeeping

- BMP #1 Municipal Inventory
 - List all municipal operations that have the potential to pollute: Municipal Buildings, Park Maintenance, Snow Removal, Vehicle Maintenance





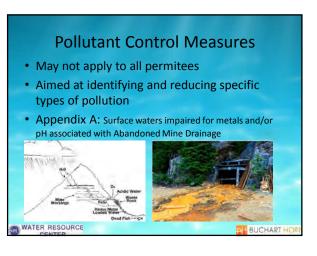
MCM #6 – Pollution Prevention and Good Housekeeping • BMP #3 – Employee Training Program – Should occur at least annually – Encompasses all employees (Police, Fire, Public Works, Administrative, Code Enforcement, etc)

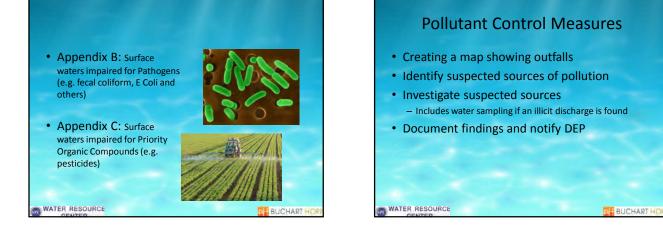
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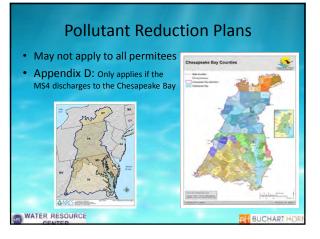








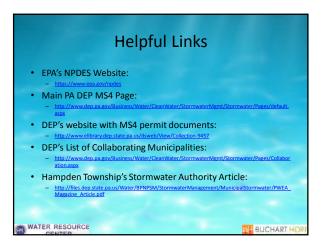
















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