STORMWATER UPDATES

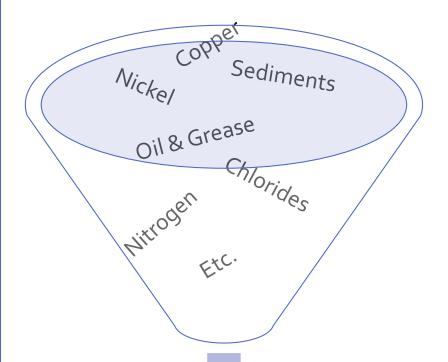


Rachel Herbert, EPA/OW/OWM

National Stormwater Practitioners Meeting

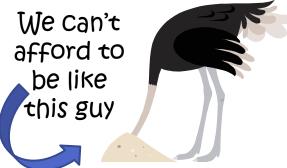
July 2014

Stormwater Concerns











Municipal Separate Storm Sewer System (MS4) Program Updates

Major Focus Areas for Stormwater

Focusing on a suite of actions to help communities effectively address their stormwater challenges

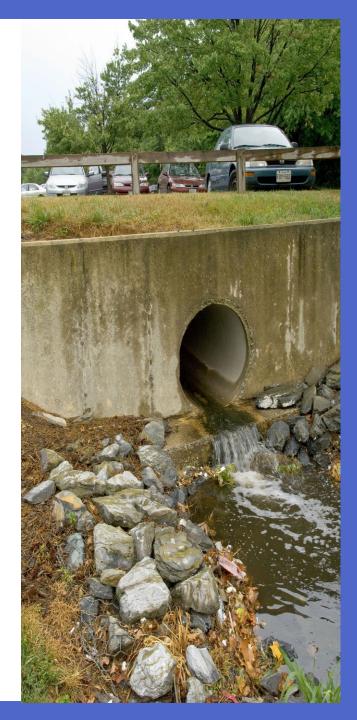
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Federal Partnerships

Education,
Technical
Assistance &
Engagement with
Key Partners

2

Recognition/ Incentive Programs Strengthening the MS4 Program



Website Updates



Innovation

Foster innovation by identifying & promoting good practices that other DOTs can emulate



Dissemination

Develop key documents that can help DOTs + share any other documents that may be useful



Emerging Topics

Asset management, climate adaptation and resiliency, etc.

Website:

www.epa.gov/npdes/stormwater/roads

FHWA & EPA 2014 Co-hosted Webinars



Innovative Transportation Stormwater Management: Green Infrastructure in Road Projects



Roadway Design & Maintenance of Post-Construction Stormwater Controls



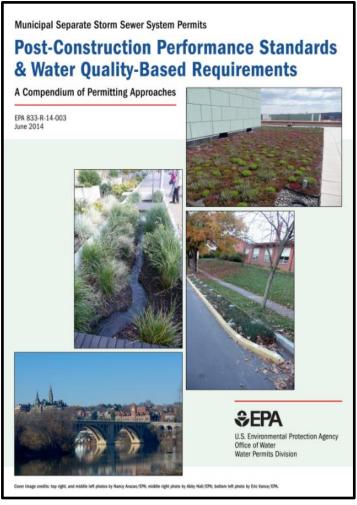
Topic to be determined



Topic to be determined

For more information: www.epa.gov/npdes/training

EXISTING RESOURCES: POST-CONSTRUCTION PERFORMANCE STANDARDS & WATER QUALITY-BASED REQUIREMENTS



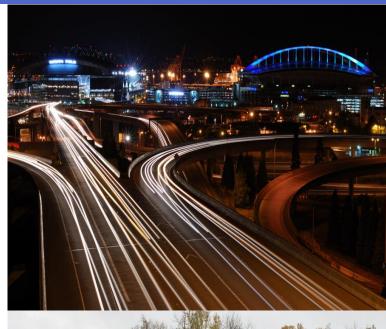
Available at: www.epa.gov/npdes/pubs/sw_ms4_compendium.pdf

Asset Management

Roads, bridges, and...stormwater practices?

You've started tracking road and bridge conditions...

Why not track stormwater at the same time to be efficient?

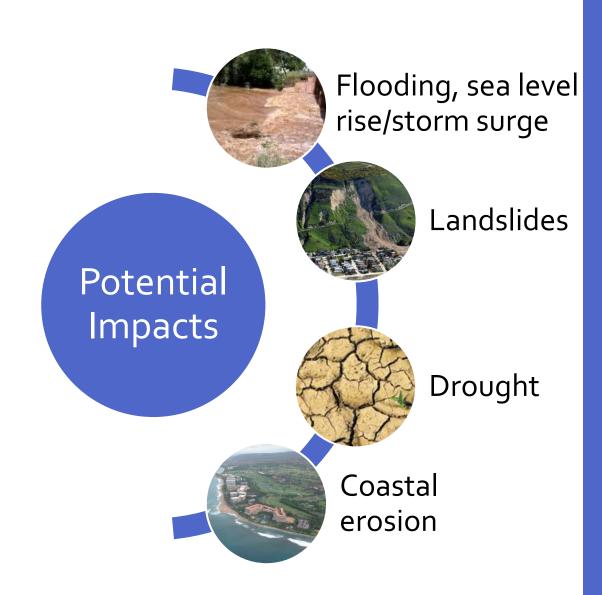




Climate Resiliency & Stormwater

FHWA Climate Resilience Pilots

- Vulnerability assessments
- Risk assessments
- Identifying strategies to make infrastructure more resilient and adaptable
- Identify priority-based work plans for addressing the most vulnerable assets first
- Incorporate climate vulnerability assessments into existing standards, guidelines, and tools
- Methodology and decision support and screening tool
- Incorporate potential adaptation/mitigation projects in MPO Plans
- Partnering with local jurisdictions to complete

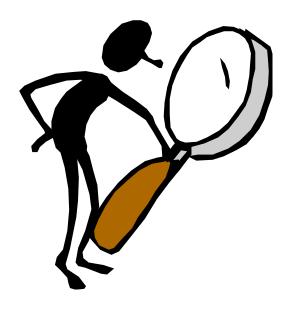




Green Infrastructure Program Updates

Green Infrastructure Technical Assistance Program

- Since 2012, EPA's Office of Water has provided more than \$1.4 million in direct assistance to local communities
- Goal is to build capacity to implement green infrastructure and share lessons learned
- Projects are identified through a Request for Letters of Interest posted on the Green Infrastructure website (<u>www.epa.gov/greeninfrastructure</u>)
- Projects have included code and ordinance reviews, cost benefit analyses, and development of green infrastructure designs



Audits

National Enforcement Initiative: Keeping Raw Sewage and Contaminated Stormwater Out of Our Nation's Waters



Goal

EPA will take action to reduce raw sewage overflows and storm water discharges from municipal sewer systems that pose a significant threat to water quality and public health.

Background

- Set every three years
- Chosen with state and public input and support EPA's seven priorities
- After comments received and considered, decision was made to continue the FY 2011-2013 National Enforcement Initiatives for FY 2014-2016

Illicit Discharge Detection & Elimination



What's required?



A storm sewer system map showing outfalls and locations of receiving waters



Prohibit non-stormwater discharges into the system and appropriate enforcement procedures and actions



A plan to detect and address illicit discharges



Education about the hazards of illegal discharges



Determination of appropriate practices and measurable goals

Remember...

- Procedures to conduct investigations
- Criteria to identify illicit discharges
- Tracking illicit discharges
- Training
- Proactive vs. Reactive

Examples of Illicit Discharge Sources

- Spills from roadway accidents
- Improper disposal of auto and household toxics
- Improper oil disposal
- Radiator flushing disposal
- Sanitary wastewater
- Effluent from septic tanks

Construction Site Runoff



What's required?



Code or ordinance requiring proper erosion and sediment controls



Construction site plan reviews that consider water quality impacts



Have sanctions to ensure compliance



Establish procedures for receipt and consideration of information submitted by the public



Determination of appropriate practices and measurable goals

Remember...

- Frequency of site inspections
- Review procedures
- Qualified inspectors
- Maintenance of stormwater controls
- System to track stormwater controls
- Procedures for enforcement response

Pollutants Commonly Discharged from Construction Sites

- Sediment
- Solid and sanitary wastes
- Phosphorus
- Nitrogen
- Pesticides
- Oil and grease
- Concrete truck washout
- Construction chemicals
- Construction debris

Post-Construction Runoff Control



What's required?



Develop and implement strategies which include a combination of structural and/or non-structural practices



Ordinance requiring implementation of controls

Remember...

- Frequency of site inspections
- Review procedures
- Maintenance of stormwater controls
- Inspection training
- Tracking stormwater controls
- Procedures for enforcement response



Ensure adequate long-term operation and maintenance of controls



Determine appropriate practices and measureable goals

Project Timeline

Site

Active

Design Construction

Post-Construction

Pollution Prevention/Good Housekeeping



What's required?



Develop and implement an operation and maintenance program



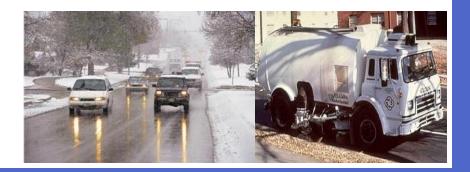
Train employees on how to incorporate pollution prevention/good housekeeping techniques



- Stormwater controls/measures
- Procedures/plan and documentation
- Maintenance of stormwater controls
- Training



Determine appropriate BMPs and measurable goals for this minimum measure



Public Education/Outreach & Public Involvement

What's required



Distribute educational materials to the community, or conduct equivalent outreach activities

Remember...

- Coordination with other MS4s
- Documentation



Determine the appropriate best management practices (BMPs) and measurable goals



Comply with applicable State, Tribal, and local public notice requirements



Thank You!



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