

Stormwater Management Plan:

**Municipal Waste Treatment, Storage, or Disposal Facilities
Not Covered by an NPDES Stormwater Permit**



Columbia Stormwater Management
Partnering for Clean Waterways
CITY OF COLUMBIA, SC

Mike Jaspers
CPAC
May 4, 2010





Overview

- What does this cover?
- Program Goal
- Program Development
- Inspections
- Corrective Action
- City Staff Training



What does this cover?

- How City crews handle potential pollutants
 - ◆ At City facilities
 - ◆ On job sites throughout the City
- Essentially it's "Good Housekeeping"



Program Goal

- To reduce and prevent runoff pollution from day-to-day City operations



Program Development

- Developed over next 6 to 8 months
 - ◆ Meeting with City departments
 - ◆ Reviewing existing procedures
 - ◆ Identifying needed changes in procedures



Inspections

- Initial inspection
 - ◆ Will be done for all identified City facilities
 - ◆ Determine if periodic inspections necessary
- City facilities outside City limits
 - ◆ Wastewater Treatment Plant and Landfill
 - ◆ State and/or County will regulate
 - ◆ City will consult with State/County regulators



Corrective Action

- Will be collaborative effort to correct deficiencies between
 - ♦ Stormwater Management personnel
 - ♦ Management and personnel from other City departments
- Together we will design and implement corrective measures

City Staff Training

- For City staff
 - ♦ Whose work could cause runoff pollution
 - ♦ To understand their roles
 - ♦ Eliminate the "I didn't know" problems
- Currently under development
 - ♦ Reviewing draft of training

Example Staff Training

The image shows four training cards with the following content:

- Clean Up Spills Properly:** Includes an illustration of a spill and a checklist:
 1. Stop work
 2. Notify supervisor
 3. Contain spill
 4. Clean up spill
 5. Dispose of spill
 6. Report spill
- Spill Response:** Includes an illustration of a spill and a checklist:
 1. Work quickly
 2. Contain the spill
 3. Find the spill
 4. Liquids: Soak up and dispose
 5. Dry Material: Cover or sweep
 6. Report
- Shop Cleaning:** Includes an illustration of a shop floor being cleaned.
- Dry Sweeping is Best:** Includes an illustration of a person sweeping and a checklist:
 - SWEEP or WIFE work areas to clean them whenever possible
 - Only pour used mop water down
 - SNRS connected to sanitary sewer.

Stormwater Management Plan: Industrial Runoff

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The image shows the title slide of a presentation. It features the Columbia Stormwater Management logo (a water drop with a leaf) and the City of Columbia, SC logo (a circular seal with a figure). The text reads: "Stormwater Management Plan: Industrial Runoff", "Mike Jaspers", "CPAC", and "May 4, 2010". The background is a photograph of a large, dark, smooth rock in a stream.

Overview

- What does this cover?
- Program Goal
- Program Development
- Initial Inspections
- Periodic Inspections
- Special Circumstances:
Facilities with Industrial Stormwater Permits
- Industrial Operators Training

What does this cover?

- Industry and commercial businesses that are at risk of polluted runoff from
 - ♦ How and where they use chemicals and materials
 - ♦ How they store chemicals and materials
 - ♦ Any cleaning practices
 - ♦ Any transport practices
 - ♦ Any other practices that could affect water quality



Program Goal

- To reduce and prevent runoff pollution from industrial and commercial activities



Program Development

- Developed over next 6 to 8 months
 - ♦ Not just typical "industry"
 - "Commercial" businesses may be inspected
 - Based on risk of runoff pollution
 - ♦ Gathering data
 - Have list of types of commercial and industrial businesses
 - Currently prioritizing initial inspections



Initial Inspections

- Order based on priority – risk of pollution
- Will need to be done for all identified sites within 4 years
- Will determine if periodic inspections necessary



Periodic Inspections

- Will begin once a facility is identified as needing them
 - ♦ Will overlap initial inspections
- Priority is to control known risks first
- Prioritized list of sites needing periodic inspections due to DHEC in 4 years



Special Circumstances: Facilities with Industrial Stormwater Permits

- Some facilities have an Industrial Stormwater Permit
 - ♦ Issued by SCDHEC Bureau of Water (BOW)
 - ♦ Requires Stormwater Pollution Prevention Plan (SWPPP)



Special Circumstances: Facilities with Industrial Stormwater Permits (cont.)

- We will
 - ♦ Prioritize these for initial inspection
 - ♦ Require periodic inspections
 - ♦ Coordinate with BOW on SWPPP update recommendations and non-compliance



Industrial Operators Training

- Will need to be annual
- To inform local industries of appropriate stormwater controls and pollution prevention methods
- In initial planning stages
 - ◆ Will most likely depend on most common problems seen

Thank you!

