

BEST MANAGEMENT PRACTICES FOR LANDSCAPING



- Mowing Practices
 - Rutting due to mowing during wet conditions
 - Scalping
- Disposal of Debris
- Product Management
- Swimming Pools

BEST MANAGEMENT PRACTICES FOR CONSTRUCTION



- Sedimentation and Erosion Control Regulations
- Plans and Permits
- Training
- Design for New Construction

BEST MANAGEMENT PRACTICES FOR CONSTRUCTION

- **NC Erosion and Sediment Control Planning and Design Manual**
- **NC Erosion and Sediment Control Field Manual**
- **Erosion and Sediment Control – Inspector’s Guide**
- **Erosion and Sediment Control Practices Videos**
- **Erosion and Sediment Control Educational Materials**

BEST MANAGEMENT PRACTICES FOR TRANSPORTATION AND PUBLIC WORKS

1. Municipal Separate Stormwater Sewer System (MS4)
2. Stormwater Control Measures (SCM) or Best Management Practices (BMPs)
3. Practices that can Reduce Pollution in Stormwater Runoff
4. Municipal Operations

Municipal Separate Stormwater Sewer System (MS4)

- Streets
- Public parking
- Piped and vegetative conveyances
- Manholes
- Catch basin and drop inlets
- Outfalls
- Structural stormwater control devices











Structural Stormwater Control Devices

Ponds and wetlands

Dry detention basins

Bioretention cells and rain gardens

Level spreaders

Permeable pavement

Vegetative filter strip

Infiltration trenches

Sand filters

Cisterns

Underground detention



Practices that can Reduce Pollution in Stormwater Runoff



Municipal Operations

- Fleet Maintenance
- Fuel Farms
- Materials Storage Yards
- Pesticide Storage Facilities
- Public Works Facilities
- Recycling and Household Waste Facilities
- Oil Collection Centers
- Street Repair and Maintenance Sites

Turnover Folders

1. Facility Information
2. Site Plan
3. Spill Response Procedures
4. Best Management Practices
5. Inspections
6. Staff Training

Facility Identification

- Name
- Address
- Contact and Phone No
- Brief description of facility
- Potential sources of stormwater pollution
- Allowable stormwater discharges



Site Plan

- Drainage areas
- Stormwater and sanitary piping
- Manholes, cleanouts, drains,
- Inlets and outfalls,
- Oil water separators (OWS)
- Stormwater control devices



Spill Response

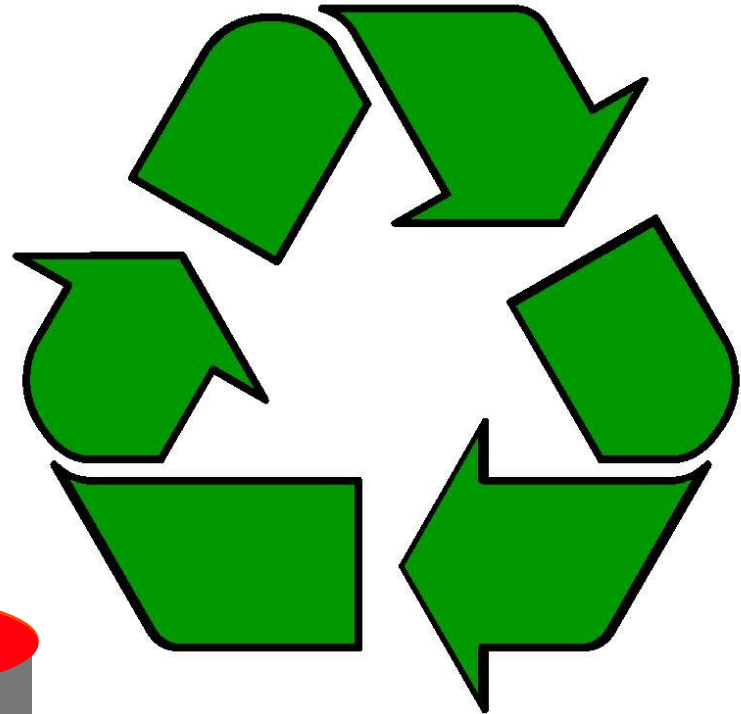
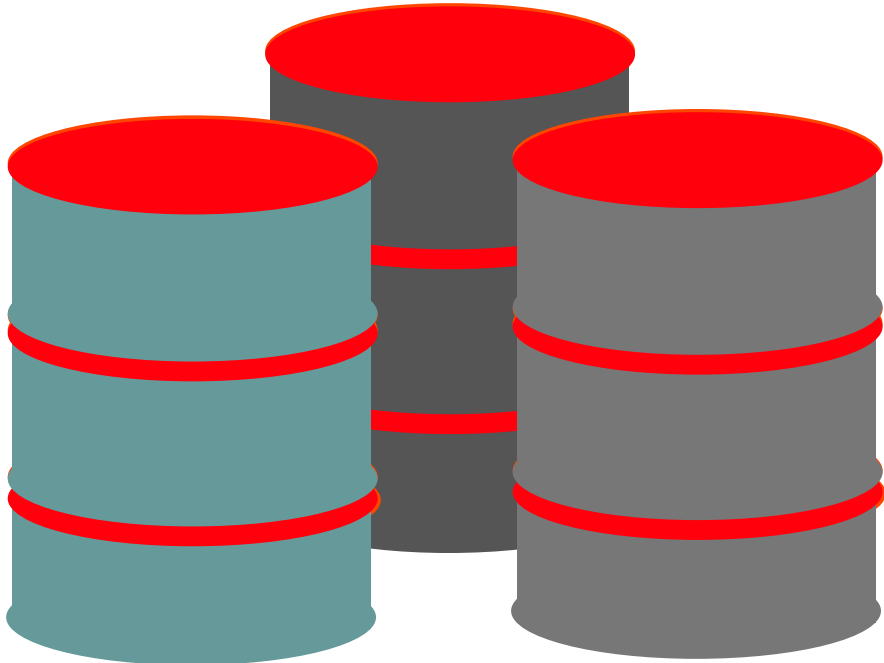
- Written spill response procedures
- Identifies what employees should do in the event of a minor/Major spill or release
- Identifies where MSDS, PPE, spill kits, and storm drain inlet/outlet protection

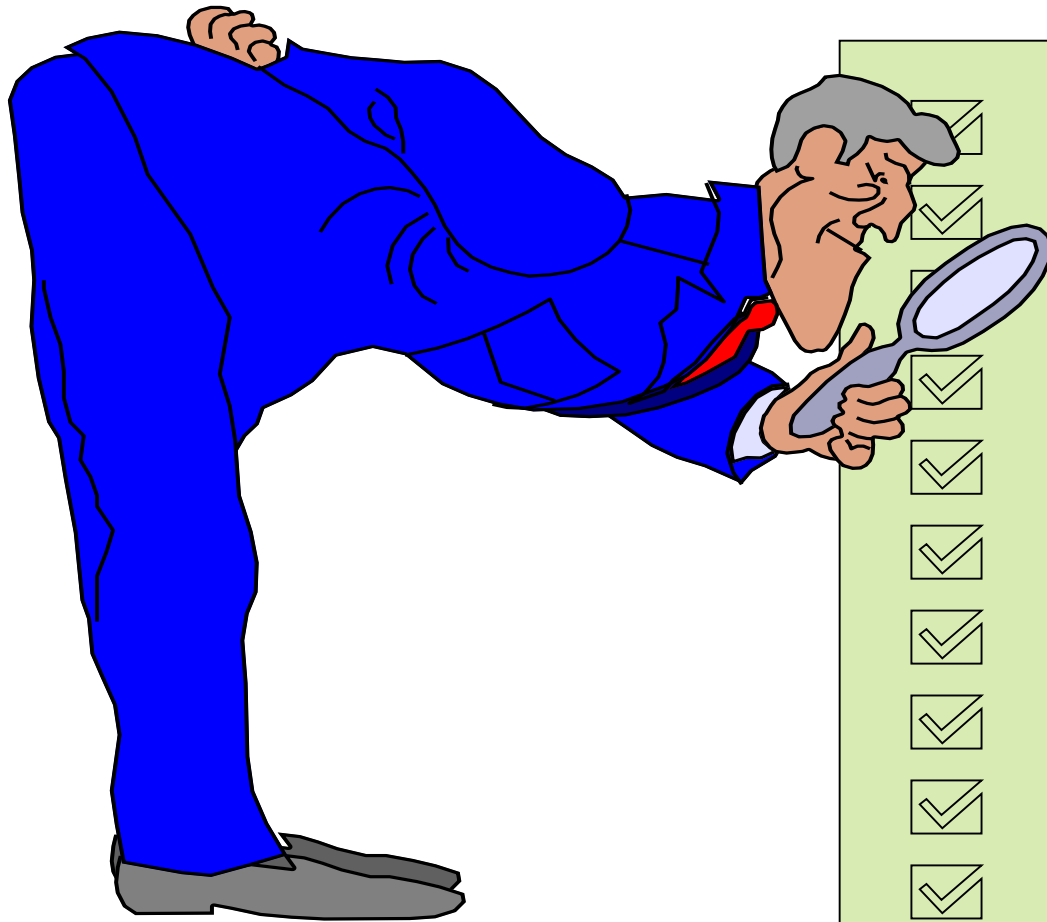


Best Management Practices









Inspection Checklist

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Inspections



Stormwater Control Measures



Oil Water Separators (OWS)







NO
SMOKING













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AMMONIUM NITRATE
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DRUGS
ARE GARBAGE

DEFENBAUGH
DDS
DISPOSAL SERVICE
631-3300



NOTICE



Training

- Does the facility maintain copies of the materials used in the training
- Do training records identify, i.e., who was trained, what they were trained on, and when they were trained?
- Is the training program, including the training material used, designed to minimize stormwater pollution runoff?

For further information, please contact:

Stormwater Permitting Unit

- Phone: (919) 807-6374
- Cell: (919) 389-7801
- E-mail: mike.randall@ncdenr.gov
- Website: <http://portal.ncdenr.org/web/wq/ws/su/npdessw>
- Address: 1617 Mail Service Center
Raleigh NC 27699-1617



MS4 Stormwater Sustainability Initiative (MS6I)

MS4 Stormwater Sustainability Initiative (MS6I)

- Maintain compliance while continually improving programs
- Develop and maintain organizational and community commitment
- Lead in transparency, open data reporting, public engagement and collaboration
- Identify and implement program strategies and measures to meet the community's existing stormwater management requirements and needs while anticipating and preparing for the future.

MS4 Stormwater Sustainability Initiative (MS6I)

- Maintain a compendium/clearing house of documents
 - Sample ordinances and policies
 - SOP
 - Checklist
- Develop tools for conducting a GAP Analysis
 - Checklist
 - Software App

MS4 Stormwater Sustainability Initiative (MS6I)

- NOI
- Annual Gap Analysis
 - Year 3 of the permit cycle by another local government
 - Year 5 of the permit cycle by an independent party
- Identify program deficiencies
- Identify Root Causes
- Develop and Implement Action Plans
- Transparency

MS4 Stormwater Sustainability Initiative (MS6I) Benefits

- Waive annual NPDES MS4 program report
- Access to recommended practices and tools to conduct a gap analysis
- Strong community leadership commitment, open information sharing, public engagement, and regular reporting of program results.
- Demonstrate link between resources and program results.
- Implementation of cost effective, integrated stormwater management programs
- Partnerships with peer communities across the region and state
- Less regulatory oversight and minimizing liabilities

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