Minimum Control Measure (MCM) 4

Construction Site Stormwater Runoff Control

Uncontrolled stormwater runoff from construction sites can significantly impact rivers, lakes and estuaries. Sediment in waterbodies from construction sites can reduce the amount of sunlight reaching aquatic plants, clog fish gills, smother aquatic habitat and spawning areas, and impede navigation.

Phase II MS4s are required to develop a program to reduce pollutants in stormwater runoff to the MS4 for construction sites disturbing one or more acres. This primarily includes developing:

- An ordinance,
- Requirements to implement erosion and sediment control best managment practices (BMPs),
- Requirements to control other waste at the construction site.
- Procedures for reviewing construction site plans,
- Procedures to receive and consider information submitted by the public, and
- Procedures for inspections and enforcement of stormwater requirements at construction sites.

In addition to the stormwater requirements that Phase II MS4s place on construction sites, construction operators must also apply for NPDES permit coverage if their project disturbs at least one acre and discharges to a waterbody. A description of these requirements is available at <u>EPA's</u> stormwater construction website.

Additional information on this minimum measure, including the stormwater Phase II <u>regulatory</u> <u>requirements</u> for construction site runoff control and a <u>fact sheet on the construction minimum</u> <u>measure</u> (4 pp, 256K, <u>About PDF</u>), is also available.

Key BMPs and Resources:

MS4s addressing the construction minimum measure should focus on the following four key BMPs to help them in developing a stormwater construction program.

- Local Ordinances for Construction Site Runoff Control BMP fact sheet
- Construction Phase Plan Review BMP fact sheet
- Contractor Training and Certification BMP fact sheet



Poorly maintained BMPs can result in significant quantities of sediment being discharged to storm drains.

USEPA Guidance Stormwater Management Control Measures – Best Management Practices MCM4 - Construction Runoff Control BMPs

- Municipal Construction Inspection Program BMP fact sheet
- <u>Construction Industry Compliance Assistance website</u> provides plain language information on environmental rules, including stormwater, for the construction industry.

BMP Fact Sheets:

The fact sheets in this section describe BMPs and how to use them to help municipal stormwater programs and construction site operators comply with the stormwater Phase II requirements.

EPA has started updating these fact sheets to include new practices and technologies. Several of these updated fact sheets are now available in PDF format.

Municipal Program Oversight

Construction Phase Plan Review

Contractor Training and Certification

Local Ordinances for Construction Site Runoff Control

Municipal Construction Inspection Program

Construction Site Planning and Management

Construction Sequencing

Construction Site Operator BMP Inspection and Maintenance

Land Grading

Preserving Natural Vegetation

Erosion Control

Chemical Stabilization

Compost Blankets (6 pp, 887K, About PDF)

Dust Control

Geotextiles

Gradient Terraces

Mulching

Riprap

Seeding

Sodding

Soil Retention

USEPA Guidance Stormwater Management Control Measures – Best Management Practices

MCM4 - Construction Runoff Control BMPs

Soil Roughening

Temporary Slope Drain

Temporary Stream Crossings

Wind Fences and Sand Fences

Runoff Control

Check Dams

Grass-Lined Channels

Permanent Slope Diversions

Temporary Diversion Dikes

Sediment Control

Brush Barrier

Compost Filter Berms

Compost Filter Socks

Construction Entrances

Fiber Rolls

Filter Berms

Sediment Basins and Rock Dams

Sediment Filters and Sediment Chambers

Sediment Traps

Silt Fences (5 pp, 1.2MB, About PDF)

Storm Drain Inlet Protection

Straw or Hay Bales

Vegetated Buffers

Good Houskeeping/Materials Management

Concrete Washout (5 pp, 929K, About PDF)

General Construction Site Waste Management

Spill Prevention and Control Plan

Vehicle Maintenance and Washing Areas at Construction Sites

USEPA Guidance Stormwater Management Control Measures – Best Management Practices MCM4 - Construction Runoff Control BMPs

EPA Internet Resources:

- <u>Construction Industry Compliance Assistance Web Site</u> provides plain language information on environmental rules, including stormwater, for the construction industry.
- <u>Model Ordinances</u> including erosion and sediment control ordinances, are available from EPA's Nonpoint Source Program.
- <u>Urban Management Measures Guidance Chapter 5</u> focuses on construction site erosion, sediment, and chemical control.
- <u>Stormwater Pollution Prevention Plans for Construction Activities</u> describes the steps necessary to develop a stormwater pollution prevention plan for construction activity.
- <u>Stormwater case studies on municipal construction programs</u> includes case studies of how a Phase I or Phase II community has implemented the construction requirements.
- <u>Stormwater outreach materials for the construction industry</u> including brochures in English and Spanish, and a poster are available for download.

Other Internet Resources:

- Minnesota Pollution Control Agency EXIT Disclaimer stormwater guidance:
 - Stormwater Construction Inspection Guide (35 pp, 5.77MB, About PDF)
 describes how municipal inspectors should conduct construction site inspections.
 - Stormwater Compliance Assistance Tool Kit for Small Construction Operators (44 pp, 500K, <u>About PDF</u>)
 EXIT Disclaimer provides guidance to help small construction operators comply with their stormwater requirements.
- Kentucky Erosion Prevention and Sediment Control Field Guide is available for download in three parts from the <u>Kentucky Division of Water's Stormwater website</u> <u>EXIT Disclaimer</u>.
- 2005 Stormwater Management Manual for Western Washington: Volume II -- Construction

 Stormwater Pollution Prevention

 SWPPPs and BMP standards and specifications.

Note: If you are referencing this page, please use this alias web address: http://www.epa.gov/npdes/stormwater/menuofbmps/construction