

Construction SWPPP Training

NPDES Stormwater Program



NPDES Stormwater Overview

- Discharge of pollutants from a point source to waters of the U.S.
- Construction Permit (Generic Permit)
 - Construction activity that disturbs ≥ 1 acre, or is part of larger common plan of development or sale that will disturb ≥ 1 acre
and
 - Stormwater discharges to a surface waters of the State (including wetlands) or to a MS4

NPDES Stormwater Overview

- Industrial Permit - SIC listing
(Multi-Sector Generic Permit)
 - Largely defined by SIC code
 - Related to manufacturing, processing, or material storage areas
 - Stormwater discharges to surface waters of the State or to Municipal Separate Storm Sewer Systems (MS4)
- Phase I and Phase II MS4 Permits
 - Broad, multi-faceted municipal permits
 - MS4 operators required to “reduce the discharge of pollutants to the MEP”

Coverage

- Effective 48 hrs after submittal of complete Notice of Intent (NOI)
- Coverage good for 5 years
- Permit coverage does not change hands
 - New owner must apply for a NOI
 - Previous owner must file a Notice of Termination (NOT)

What is a SWPPP?

- Stormwater Pollution Prevention Plan
- Develop before submittal of NOI
- Living document must be kept current
 - Amend plan whenever there is a change

Site Description

- Nature of Construction Activity
 - What is being constructed?
- Intended Sequence
 - What, when, where, etc.
- Estimates of Area
 - Total area of site in acres
 - Total area disturbed in acres

Site Description

- Existing Data
 - Any existing data that describes the soil or the quality of any discharge from the site and an estimate of the size of the drainage area for each discharge point
- Latitude and Longitudes
 - Each discharge point in degrees, minutes, seconds
 - Name of Receiving Water(s) for each point

What Should be on the Site Map?

- Drainage patterns and approximate slopes anticipated after major grading activities
- Areas of soil disturbance
- Outline of areas which may not be disturbed
- Locations of major structural and non structural controls
- Locations of expected stabilization practices
- Locations of surface waters/wetlands
- Locations where stormwater is discharged to a surface water or MS4

What are Structural and Nonstructural Controls?

- Structural controls are those which are used to control the stormwater volume and peak discharge rate, as well as reducing the magnitude of pollutants in the discharge water
- Nonstructural controls are those which are intended to improve stormwater quality by reducing the generation and accumulation of potential stormwater pollutants at or near their sources

Controls

- Description of appropriate controls, BMP's, and measures that will be implemented on site
- Clearly describe for each major activity (grubbing, excavating, etc) appropriate control measures and the timing during the construction process that the measures will be implemented

Stabilization Practices

- Description of temporary and permanent stabilization practices, including site-specific scheduling of implementation of the practices
- Stabilization should be ASAP, but in no case more than 7 days

Structural Controls

- Description of structural practices to limit runoff and the discharge of pollutants from exposed areas of the site

Sediment Basins

- For drainage basins w/10 or more disturbed acres (at one time) of contiguous drainage should provide 3,600 ft³ of storage per acre drained until final stabilization
 - If not attainable, a combination of smaller sediment basins and/or sediment traps and other BMP's should be used
- For drainage basins w/less than 10 acres sediment basins/sediment traps are recommended but not required

Sediment Basins

- At a minimum, silt fences or equivalent controls are required for all sideslope and downslope boundaries of the construction area
- Areas that will be used for permanent stormwater infiltration treatment should not be used for temporary sediment basins unless measures are taken to assure removal of accumulated fine sediments and excessive compaction of soils by construction machinery is avoided

Permanent Stormwater Management Controls

- Include a description of stormwater management controls or BMP's that will be installed during the construction process to control pollutants in stormwater discharges that will occur during construction and after construction activities have been completed and the site has been completed
- Permit only addresses installation of controls not the ultimate operation after construction is complete

Controls for Other Potential Pollutants

- Waste Disposal
 - Assure that waste such as discarded building materials, chemicals, litter etc. are properly controlled in accordance with all applicable state, local, and federal plans
 - Does not authorize the discharge of solid materials, including building materials, to surface waters of the State of Florida or an MS4

Potential Pollutants

- Off-site Vehicle Tracking
 - Assure that tracking of sediments and the generation of dust is minimized
- State/local Regulations
 - Plan should be consistent with applicable State and local waste disposal, sanitary sewer or septic system regulations

Potential Pollutants

- Application Rates
 - Address proper application rates and methods for the use of fertilizers, herbicides, etc and how the rates will be implemented and enforced
 - Apply only as necessary to establish and maintain vegetation
 - Application, generation, and migration of toxic substances is limited and toxic materials are properly stored and disposed

Maintenance

- Include a detailed description of procedures that will be followed to ensure the timely maintenance of vegetation, erosion and sediment controls, stormwater management practices, and other protective measures and BMP's so they will remain in good and effective operating condition

Inspections

- A Qualified Inspector provided by the operator shall inspect:
 - All points of discharge to surface waters of the state or MS4
 - Disturbed areas that have not been finally stabilized
 - Material storage areas exposed to precipitation
 - Structural controls
 - Locations where vehicles enter or exit the site

Who is a Qualified Inspector?

- A person that has successfully completed and met all the requirements necessary to be fully certified through the DEP Stormwater, Erosion, & Sedimentation Control Inspector Training Program
- A person that has successfully completed an equivalent formal training program
- A person that is qualified by other training or practical experience in the field of stormwater pollution prevention and erosion and sedimentation control

Inspections

- Inspections are to be conducted at least once every 7 calendar days and within 24 hrs of the end of a storm that is a 1/2 inch or greater
- If needed, controls and/or BMP's identified in the plan shall be revised as appropriate and in no case later than 7 calendar days following the inspection (Does not authorize water quality violations)

What Should be on the Inspection Report?

- Name(s) and certification signature(s) of the qualified inspector and representative of the permittee for the penalty of law statement
- Date(s) of the inspection
- Rainfall data
- Major observations and actions taken
- Any incidents of non-compliance



Non-Stormwater Discharges

- Except for flows from fire fighting activities, sources of non-stormwater listed in Part IV. A.3 of the CGP permit i.e. irrigation drainage, fire hydrant flushings, etc., that are combined with stormwater discharge must be identified in the plan
- Plan shall identify and ensure the implementation of appropriate measures for the non-stormwater component(s) of discharge

Certification Statements

- SWPPP must clearly identify, for each measure identified in the plan, the contractor(s) and/or subcontractor(s) that will implement each measure identified in the SWPPP
- All contractors/subcontractors must sign a copy of the certification statement before conducting any activities at the site

Contractor/Subcontractor Certification Statement

- “I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder.”
- Name, Title, Company Name, Address, Phone Number, and Date

Permit Certification Statement

- FL Administrative Code 62-620.305

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- Signature (Operator and/or Responsible Authority) & Date

Helpful Websites

- SWPPP template
www.dep.state.fl.us/water/stormwater/npdes/swppp.htm
- Construction Generic Permit
www.dep.state.fl.us/water/stormwater/npdes/docs/cgp.pdf
- NPDES Construction Main Page
www.dep.state.fl.us/water/stormwater/npdes/construction1.htm
- Erosion & Sediment Control Training & Certification Class
www.dep.state.fl.us/water/nonpoint/erosion.htm

Questions?