

Chapter 3

Stormwater Pollution Prevention Plan Preparation

A Stormwater Pollution Prevention Plan (SWPPP) will identify potential sources of pollution, describe the implementation of best management practices, and provide a schedule for maintenance and inspection procedures. The Stormwater Pollution Prevention Plan often includes erosion and sediment control measures, as well, and will have similar elements as the Erosion and Sediment Control Plan discussed in *Volume 1 – Chapter 3*. Both this chapter (on SWPPP preparation) and the Erosion and Sediment Control chapter of Volume 1 should be reviewed before developing a plan.

Permit Requirements

Large Construction

A SWPPP is required for Large Construction General Permit authorization in the State of Mississippi. The SWPPP must be kept at the project site or locally available.

Small Construction

The owner or operator must complete the Small Construction Notice of Intent and keep the form at the project site or locally available. In addition, the owner or operator must develop and implement a SWPPP. The SWPPP must be kept at the project site or locally available. **The Small Construction General Permit has no submittals to the MDEQ unless specifically requested.**

SWPPP Elements

The following provides an in-depth description of items required by the Large Construction General Permit. Items followed by asterisk (*) are required by the Small Construction General Permit. Copies of these permit documents are available in Appendix B.

Introduction

In this section, provide a narrative of general site information including project name, location, and size. The owner or operator (see definitions) should be identified, including complete mailing address and telephone numbers.

Project Overview

The project overview section will include a narrative discussion of the project location, size, development purposes, previous uses of the site, adjacent sites' land uses, and site access information. A discussion of wetland impacts can be presented here as well as conservation practices for the proposed project.

Site Description

This section should include a description of soils, vegetation, wetland and upland areas, receiving waters and other characteristics of the site such as drainage patterns, etc.

Project Schedule

The proposed project schedule should be included in this section. See the Construction Phasing/Sequencing BMP profile page (in Chapter 4 of Volume 1) for more information on construction phasing.

Potential Sources of Stormwater Pollution

This section should include a narrative description of the potential sources of pollution and the BMPs identified to control the potential pollutants. Examples of potential pollutant sources include, but are not limited to, litter and debris, sediments, gasoline, diesel, oil, pesticides, fertilizers, aggregate materials stockpiles, liquid material storage, material loading/unloading, solids disposal dumpster, and vehicle and equipment parking, storage and fueling.

Identification of the person or persons responsible for pollution prevention on-site should be included in this section.

Erosion and Sediment Control Best Management Practices

A description of the erosion and sediment control best management practices should be included in the SWPPP, as sediment is a potential pollutant in any land disturbance activity. *Volume 1 – Chapter 3* discusses the creation of an erosion- and sediment-control plan. *Volume 1 – Chapter 4* identifies Best Management Practices for the control of erosion and sediment during construction activities.

The Large Construction General Permit and Small Construction General Permit should be referenced for specific requirements for erosion and sediment control.

Post-Construction Best Management Practices

For sites that will have post-construction stormwater BMPs, a narrative description should be included in the SWPPP. This narrative should identify the BMP, the approximate location, and the proposed function of the BMP.

Non-Stormwater Dischargers

A narrative description of the allowable non-stormwater discharges expected on-site should be provided. A list of allowable non-stormwater discharges is provided in both the Large and Small Construction General Permits.

Preventative Maintenance and Good Housekeeping

A narrative should be provided, discussing the preventative measure(s) and good housekeeping practices that will be implemented before, during, and after the construction activities.

Maps

Prepare a scaled site map showing original and proposed contour lines; drainageways; north arrow; all erosion, vegetative, and structural sediment controls; and post-construction stormwater BMPs.

Implementation

Indicate the order in which activities will take place. When work is discontinued for 30 days or more in a disturbed area or completed, appropriate vegetative and structural

practices must be initiated within seven calendar days. Several general implementation principles are given below.

- **Install** downslope and perimeter controls *before* other site work. Build sediment basins *before* major site grading.
- **Divert** upslope water around area before major site grading.
- **Do not disturb** an area until it is necessary.
- **Time** construction activities to limit impact from seasonal weather.
- **Cover or stabilize** disturbed areas as soon as possible.
- **Do not remove** temporary controls until *after* site stabilization.

More information on *Construction Phasing/Sequencing* can be found in Volume 1 – Chapter 4.

Recordkeeping

Provide a narrative account for the proposed recordkeeping activities.

Inspections

The SWPPP should outline procedures for site inspections, including the frequency of inspection and the responsible party for inspecting the project site. This section should include detailed inspection procedures as well. During permit coverage, all erosion controls must be inspected at least once per week for a minimum of four inspections per month and as often as necessary to ensure that appropriate erosion and sediment controls have been properly constructed and maintained and to determine if additional or alternative control measures are required. The MDEQ strongly recommends that coverage recipients perform a “walk-through” inspection of the construction site before anticipated storm events. The inspection information must be recorded on the forms developed and provided by the MDEQ. These forms are available on the MDEQ Web site at www.deq.state.ms.us (on the General Permits Branch page).

Monitoring

Indicate the procedure for monitoring, if applicable. At the time of publication, monitoring under the Large Construction General Permit is strictly voluntary and the results are not required to be documented and/or reported. Recommended monitoring procedures are outlined in the Large Construction General Permit.

Maintenance

A description of a maintenance schedule for all disturbed areas, material storage areas, and erosion and sediment controls that were identified as part of the plan shall be included in the SWPPP. Non-functioning controls shall be repaired, replaced or supplemented with functional controls within 24 hours of discovery or as soon as field conditions allow.

Final Stabilization

Procedures for final stabilization of disturbed areas should be outlined in the SWPPP.