

Small Noncoal/Nonmetallic Mining Best Management Practices Plan (BMP Plan) Instructions

To help you develop the narrative section of your small mining BMP Plan, the Alabama Department of Environmental Management (ADEM) has created this electronic BMP Plan template. The template is designed to help guide you through the BMP Plan development process and help ensure that your BMP Plan addresses all the necessary requirements of the Small Mining General Permit.

You should use this template (available at <http://adem.alabama.gov>) with the current *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas*. The handbook is available at <https://alabamasoilandwater.gov/alesc/>.

You are required by Part III.D of the Small Noncoal/Nonmetallic Mining General Permit ALG890000 (hereinafter, SMGP) to develop a BMP Plan which reflects the requirements of the permit, as well as the conditions at your site. The template is intended to be used as a guide in development of your site's BMP Plan, thus it should be customized for your site.

Using the BMP Plan Template

Below are instructions for each section of the BMPP template. You should read the instructions for each section before you complete that section. This template is available in Word format if requested. Please send your request to cswmail@adem.alabama.gov.

The header can be customized to allow you to insert your own company logo. Some sections may require only a brief description while others may require several pages of explanation. Prior to saving and submitting your BMPP ensure the following items are met:

- Modify this BMP Plan template so that it addresses the requirements of the SMGP and meets the needs of your project. Consider adding permit citations in the BMP Plan when you address a specific permit requirement(s).
- In accordance with Part III.A.7 of the permit, the Permittee is required to implement measures or requirements to achieve the pollutant reductions consistent with a TMDL established or approved by EPA. Applicable TMDLs are located and/or can be accessed at <http://www.adem.alabama.gov/programs/water/tmdl.cnt>
- In accordance with Part III.A.8 of the permit, the Permittee is required to implement measures or requirements to ensure that discharges will not cause or contribute to the listed impairment for those waters listed on the most recently approved 303(d) list of impaired waters. Applicable 303(d) listed waters can be accessed at <http://www.adem.alabama.gov/programs/water/303d.cnt>
- In accordance with Part III.A.9.(a) of the permit, sediment control measures, erosion control measures, and other site management practices must be properly selected based on site-specific conditions, and must meet or exceed the technical standards outlined in the Alabama Handbook and the site-specific BMP Plan prepared in accordance with Part III.D of the SMGP.
- In accordance with Part III.A.9.(b) of the permit, sediment control measures, erosion control measures, and other site management practices shall be designed and maintained to minimize erosion and maximize sediment removal resulting from storm events up to and including a 2-year, 24-hour storm event.

Section 1-General Site Information

Section 1.1-Project/Site Information-Part III. D. 4. (a) and (b)

Provide a general description of the mining site, including location, size and latitude and longitude of the entrance.

Section 1.2-Contact Information/Responsible Parties

List the permittee, project managers, stormwater contact(s), and person or organization that prepared the BMP Plan. Indicate respective responsibilities, where appropriate.

Section 1.3-Nature of Mining Activity

Briefly describe the nature of the mining activity. Provide estimates of the total area to be disturbed, including haul roads, storage areas, etc.

Section 1.4.-Receiving Waters

- List the waterbody(s) that would receive stormwater from your site, including streams, rivers, lakes, coastal waters, and wetlands. Describe each as clearly as possible, such as *Mill Creek, an unnamed tributary to Mill Creek*, and so on.
- Note any stream crossings, if applicable.
- List the storm sewer system or drainage system that stormwater from your site could discharge to and the waterbody(s) that it ultimately discharges to.
- If any of the waterbodies above are Outstanding Alabama Waters (OAW) or Outstanding National Resource Waters (ONRW), or Treasured Alabama Lake (TAL), your BMP Plan should specifically include all reasonable measures to ensure the discharges from your site will not interfere with the waterbody's designated use. For a list of OAW, ONRW and TAL waterbodies, see ADEM Admin. Code r. 335-6-11-.02 at the following link:
<http://adem.alabama.gov/alEnviroRegLaws/files/Division6Vol1.pdf>
- If any of the waterbodies above are impaired and/or subject to Total Maximum Daily Loads (TMDLs), please list the pollutants causing the impairment and any specific requirements in the TMDL(s) that are applicable to mining sites. Your BMP Plan should specifically include all reasonable measures to prevent the discharge of these pollutants. For a list of TMDLs and 303(d) impaired waters, see:
 - <http://adem.alabama.gov/programs/water/approvedTMDLs.htm>
 - <http://adem.alabama.gov/programs/water/303d.cnt>

Section 1.5-Potential Sources of Pollution

- Identify and list all potential sources of sediment, which may reasonably be expected to affect the quality of stormwater discharges from the mining site.
- Identify and list all potential known sources of pollution, other than sediment, which may reasonably be expected to affect the quality of stormwater discharges from the mining site.

Section 1.6-Maps

Include a 7.5 minute series USGS topographic map(s) or equivalent map(s) (several pages may be necessary) of the area extending to at least one-mile beyond the property boundaries. The topographic or

equivalent map(s) must include a caption indicating the name of the topographic map, name of the registrant, site name, county, and township, range, & section(s) where the project site is located.

A site topographic map(s) (e.g.USGS quadrangle map), clearly showing:

- Sufficient detail to identify the location of the mining site;
- Existing topography and drainage patterns and features, existing structures, proposed roads, utilities and waterbody(s);
- Areas that are disturbed, and/or will be disturbed;
- Identification of sediment control measures, erosion control measures, planned stabilization measures, and other site management practices;
- Locations of all waters of the State within a 1 mile radius of the site;
- Locations of wetlands and riparian zones;
- Location of all outfalls
- Locations of all receiving waters

SECTION 2: EROSION AND SEDIMENT CONTROL BMPS

Part III.A. requires the Permittee to design, install, and maintain effective erosion control and sediment control measures appropriate for all site conditions.

Instructions:

- Describe the BMPs that will be implemented to control pollutants in stormwater discharges.
- Clearly describe appropriate control measures.
- Describe the maintenance and inspection procedures that will be used for each specific BMP.
- Include protocols, thresholds, and schedules for cleaning, repairing, or replacing damaged or failing BMPs.
- Identify staff responsible for maintaining BMPs.
- Note the location of each BMP on your site map(s).
- You must submit Material Safety Data Sheets (MSDS) before anionic polymers or polyacrylamides (PAM) can be applied.

For all BMPs, you should provide design installation specifications and details. Attach them as appendices to the BMPP or within the text.

DO NOT COPY THE ALABAMA HANDBOOK AND ATTACH TO THE BMPP.

Categorize each BMP under one of the following areas of BMP activity as described below:

- 2.1 Establish Perimeter Controls and Sediment Barriers**
- 2.2 Control Stormwater flowing onto and through the project**
- 2.3 Retain Sediment On-Site**
- 2.4 Establish Stabilized Mining Entrance/Exit Roads**
- 2.5 Stabilize Soils**
- 2.6 Any Additional BMPs (i.e., stream crossing protection, stream bank protection)**

SECTION 3: GOOD HOUSEKEEPING BMPS

Describe the key good housekeeping BMPs that will be implemented to control pollutants in stormwater. Please consider pollution prevention (P2) - ADEM encourages you to exercise pollution prevention practices and alternatives at your facility. Pollution prevention will assist you in complying with permit regulations.

Categorize each good housekeeping BMP under one of the following categories:

- 3.1 Material Handling and Waste Management**
- 3.2 Establish Proper Mining Equipment Lay Down/Staging Areas**
- 3.3 Designate Washout Areas**
- 3.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices**
- 3.5 Allowable Non-Stormwater Discharge Management**
- 3.6 Equipment/Vehicle Washing**
- 3.7 Spill Prevention, Control and Management**
- 3.8 Sediment Removal**
- 3.9 Any Additional BMPs**

Section 4: Record Keeping

The permittee must retain records of all inspections, monitoring information, copies of all reports required by the permit, and records of all data used to complete such reports for a period of three (3) years.

The following is a list of records you should keep at your project site available for inspectors to review:

- The signed and certified NOI permit application form (attach)
- A copy of the letter from ADEM acknowledging receipt of your complete NOI (attach)
- Inspection reports (attach)
- Rainfall data
- Copy of your BMP Plan.
- Copy of SPCC, if needed.

Section 4.2-Log of changes to the BMP Plan

Create a log or an attachment of changes and updates to the BMP Plan. You should include additions of new BMPs, replacement of failed BMPs, changes to the mining site, changes in personnel, changes in inspection and maintenance procedures, updates to site maps, etc.

Section 4.2-Training

- Training your staff is an effective BMP. As with the other steps you take to prevent stormwater problems at your site, you should document the training that you conduct for your staff, and for those with specific stormwater responsibilities (e.g. installing, inspecting, and maintaining BMPs).
- Include dates, number of attendees, subjects covered, and length of training.
- Training includes, but is not limited to, the Qualified Credentialed Inspection Training (QCIP) program. Additional training may be necessary.

Section 5-Final Stabilization

Describe procedures for final stabilization. Final stabilization must be initiated immediately whenever any excavating or other earth disturbing activities have permanently ceased on any portion of the mining site.

Established vegetation will be considered final if 100% of the soil surface is uniformly covered in permanent vegetation with a density of 85% or greater.