



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

Instructions

To help you develop the narrative section of your small mining site 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 elements for a complete application. You should use this template (available at www.adem.alabama.gov) with the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas March 2009 Edition*. The handbook is available at http://swcc.alabama.gov/pages/erosion_control.aspx?sm=b_b.

You are required by Part III.D of the Small Noncoal/Nonmetallic Mining General Permit ALG890000 to develop a BMP Plan which reflects the requirements of the permit, as well as the conditions at your site. This 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

Each section of this template includes "instructions" and space for project information. You should read the instructions for each section before you complete that section. This template is available in Word format if requested. 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 printing and submitting your BMP Plan, delete all instructions.

Tips for completing the BMP Plan Template

- Modify this BMP Plan template so that it addresses the requirements of the Small Noncoal/Nonmetallic Mining General Permit **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 finalized or approved by EPA. Applicable TMDLs are located and/or can be accessed at <http://www.adem.alabama.gov/programs/water/approvedTMDLs.htm>
- 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 permit.
- 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.

Small Noncoal/Nonmetallic Mining Best Management Practices Plan

for:

Insert Project Name
Insert Project Site Location/Address
Insert City, State, Zip Code
Insert Project Site Telephone Number (if applicable)

Operator:

Insert Company or Organization Name
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number
Insert Fax/Email

BMP Plan Contact(s) / QCP:

Insert Company or Organization Name
Insert Name
Insert Address
Insert City, State, Zip Code
Insert Telephone Number
Insert Fax/Email

BMP Plan Preparation Date:

___/___/_____

Estimated Project Dates:

Project Start Date: ___/___/_____
Project Completion Date: ___/___/_____

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Appendix B – Site Maps

Appendix C – NOI and Copy of Permit

Appendix D – Inspection Reports

Appendix E – Corrective Action Log (or in Part 4.2)

Appendix F – BMP Plan Amendment Log (or in Part 5.2)

Appendix G – Additional Information (i.e., Endangered Species, Historic Preservation
and U.S. Corps of Engineers Documentation)

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

1.1 Project/Site Information

Instructions:

- In this section, you can gather some basic site information that will be helpful to you later when you file for permit coverage.
- Detailed information on determining your site's latitude and longitude can be found at www.epa.gov/npdes/stormwater/latlong

Permit Requirement(s):

Part III.D.3. (a) A general description of the mining site activity; and

Part III.D.3. (b) Estimates of the total area expected to be disturbed by the mining activity.

Project/Site Name: _____

Project Street/Location: _____

City: _____ State: _____ ZIP Code: _____

County: _____

Total Site Area in Acres: _____

Total Disturbed Area in Acres: _____

Latitude/Longitude of the Project Site (front gate). [Use **one** of three possible formats, and specify method]

Latitude:

Longitude:

1. ___ ° ___ ' ___ " N (degrees, minutes, seconds)

1. ___ ° ___ ' ___ " W (degrees, minutes, seconds)

2. ___ ° ___ . ___ ' N (degrees, minutes, decimal)

2. ___ ° ___ . ___ ' W (degrees, minutes, decimal)

3. ___ . ___ ° N (decimal)

3. ___ . ___ ° W (decimal)

Method for determining latitude/longitude:

USGS topographic map (specify scale): _____ EPA Web site GPS

Other (please specify): _____

1.2 Contact Information/Responsible Parties

Instructions:

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

Permittee:

Insert Company or Organization Name:

Insert Name:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

Repeat as necessary

Project Manager(s) or Site Supervisor(s):

Insert Company or Organization Name:

Insert Name:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

Repeat as necessary

BMP Plan Contact(s) / QCP:

Insert Company or Organization Name:

Insert Name:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

Repeat as necessary

QCI or Qualified Person(s):

Insert Company or Organization Name:

Insert Name:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

Repeat as necessary

This BMP Plan was Prepared by:

Insert Company or Organization Name:

Insert Name:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

Emergency 24-Hour Contact:

Insert Company or Organization Name:

Insert Name:

Insert Telephone Number:

1.3 Nature of Mining Activity

Instructions:

- Briefly describe the nature of the mining activity.

Specify material to be mined:

Dirt/Chert Sand/Gravel Shale Common Clay Crushed Rock

Dimension Stone

Other (please specify): _____

Other (please specify): _____

Primary SIC Code: _____

Primary NAICS Code: _____

Narrative Description of Activity:

INSERT TEXT HERE

Estimated Project Start Date: ___/___/___

Estimated Project Completion Date: ___/___/___

1.4 Receiving Waters

Instructions:

- 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.
- Indicate the location of all waters, including wetlands, on the site map.
- Note any stream crossings, if applicable.
- Where 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(ies) 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://www.adem.state.al.us/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.
- Also, for a list of TMDLs and 303(d) impaired waters, see:
<http://www.adem.state.al.us/programs/water/approvedTMDLs.htm>
<http://www.adem.state.al.us/programs/water/303d.cnt>

Description of receiving waters:

Description of storm sewer systems (where applicable):

Description of OAW, ONRW, and TAL waters; waters listed on the most recently EPA approved 303(d) list; or waters subject to TMDLs:

Other:

1.5 Potential Sources of Pollution

Instructions:

- 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.

Potential sources of sediment to stormwater runoff:

INSERT TEXT OR TABLE HERE

Potential pollutants and known sources, other than sediment, to stormwater runoff:

INSERT TEXT OR USE TABLE BELOW

Table 1. Known Potential Pollutants

Trade Name Material	Potential Known Stormwater Pollutants	Storage Location

Tab to add additional entries if needed.

1.6 Maps

Instructions:

- Attach to the Application, a 7.5 minute series USGS topographic map(s) or equivalent map(s) no larger than 11 by 17 inches (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;
- Areas that are disturbed, and/or will be disturbed;
- Current drainage patterns;
- 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;
- Locations of all points of discharge to waters of the State

Include the site maps with the BMP Plan.

SECTION 2: EROSION AND SEDIMENT CONTROL BMPS

Instructions:

- Describe the BMPs that will be implemented to control pollutants in stormwater discharges. Selection of the appropriate BMPs relies upon the proper characterization of the project site and accurate evaluation of the anticipated erosion and the effectiveness of proposed erosion and sediment control practices. The NRCS Revised Universal Soil Loss Equation Version 2 (RUSLE2) model is a useful modeling tool in estimating erosion rates and sediment yield. There are several benefits of using RUSLE2, specifically the ability to use a quantitative iterative process to select the most appropriate combination of permanent and temporary Best Management Practices (BMPs) for soil stabilization and erosion and sedimentation control during and after the mining activity. For each major activity identified:
 - 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.
 - 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)**
- 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 specifications and details and refer to them. Attach them as appendices to the BMP Plan or within the text of the BMP Plan.
- Consult the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas June 2003 (Revised, 03/09)* http://swcc.alabama.gov/pages/erosion_control.aspx?sm=b_b
- For more information or ideas on BMPs, see EPA's National Menu of BMPs www.epa.gov/npdes/stormwater/menuofbmps
- For more information regarding the NRCS RUSLE2, see http://fargo.nserl.purdue.edu/rusle2_dataweb/About_RUSLE2_Technology.htm

Permit Requirement(s):

Part III.A.7 requires the Permittee to implement erosion control and sediment control measures or requirements to achieve the pollutant reductions consistent with a TMDL finalized or approved by EPA. Applicable TMDLs are located and/or can be accessed at <http://adem.alabama.gov/programs/water/approvedTMDLs.htm>

Part III.A.8 requires the Permittee to implement measures or requirements to ensure that discharges will not cause or contribute to the listed impairment. Applicable 303(d) listed waters can be accessed at <http://www.adem.state.al.us/programs/water/303d.cnt>

Part III.A.9 requires that the erosion control and sediment control measures to be designed, implemented, and maintained to, at a minimum, address the following additional design requirements:

- a) Sediment control measures, erosion control measures, and other site management practices must be properly selected based on site-specific conditions, 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.
- b) Unless otherwise specified by the Alabama Handbook, 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 a 2-year, 24-hour storm event.

2.1 Establish Perimeter Controls and Sediment Barriers

Instructions:

- Describe structural practices (e.g., silt fences, fiber rolls) including design specifications and details to filter and trap sediment before it leaves the mining site.
- See, EPA's *Silt Fence BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/silt_fences, or *Fiber Rolls BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/fiber_rolls
- Also, see *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas June 2003 (Revised, 03/09)* http://swcc.alabama.gov/pages/erosion_control.aspx?sm=b_b.

Permanent

Temporary

Detailed BMP Description:

Maintenance:

Inspection:

Responsible Staff:

Permanent

Temporary

Detailed BMP Description:

Maintenance:

Inspection:

Responsible Staff:

Repeat as needed

2.2 Control Stormwater Flowing onto and through the Site

Instructions:

- Describe structural practices (e.g., diversions, berms, ditches, storage basins) including design specifications and details used to divert flows from exposed soils, retain or detain flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site.
- Consult the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas June 2003 (Revised, 03/09)*.
http://swcc.alabama.gov/pages/erosion_control.aspx?sm=b_b.

Permanent

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Detailed BMP Description:

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Inspection:	
Responsible Staff:	

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Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Repeat as needed

2.3 Retain Sediment On-Site

Instructions:

- Describe sediment control practices (e.g., sediment trap or sediment basin), including design specifications and details (volume, dimensions, outlet structure) that will be implemented at the mining site to retain sediments on-site.
- Consult the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas June 2003 (Revised, 03/09)*
http://swcc.alabama.gov/pages/erosion_control.aspx?sm=b_b

Permanent

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Detailed BMP Description:

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Inspection:	
Responsible Staff:	

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Repeat as needed

2.4 Establish Stabilized Mining Entrance/Exit Roads

Instructions:

- Describe location(s) of vehicle entrance(s) and exit(s), procedures to remove accumulated sediment off-site (e.g., vehicle tracking), and stabilization practices (e.g., stone pads or wash racks or both) to minimize off-site vehicle tracking of sediments and discharges to stormwater.
- Consult the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas June 2003 (Revised, 03/09)*
- Also, see EPA's *Construction Entrances BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/cons_entrance

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Repeat as needed

2.5 Stabilize Soils

Instructions:

- Describe controls (e.g., interim seeding with native vegetation, hydroseeding) to stabilize exposed soils where mining activities have permanently ceased. Also describe measures to control dust generation. Avoid using impervious surfaces for stabilization whenever possible.
- Consult the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas June 2003 (Revised, 03/09)*
- Also, see EPA's Seeding BMP Fact Sheet at www.epa.gov/npdes/stormwater/menuofbmps/construction/seeding

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Repeat as needed

2.6 Additional BMPs

Instructions:

- Describe additional BMPs that do not fit into the above categories.
- Also, see *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas June 2003 (Revised, 03/09)*
http://swcc.alabama.gov/pages/erosion_control.aspx?sm=b_b.

Permit Requirement(s):

Part III.A.6 of the permit requires the Permittee to design, install and maintain effective erosion and sediment control measures appropriate for site conditions to, at a minimum, provide and maintain natural buffers around surface waters, direct stormwater to vegetated areas to increase sediment removal and maximize stormwater infiltration, unless infeasible.

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Repeat as needed

SECTION 3: GOOD HOUSEKEEPING (GROUNDS KEEPING) BMPS

Instructions:

- Describe the key good housekeeping BMPs that will be implemented to control pollutants in stormwater.
- 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**
- Consult the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas June 2003 (Revised, 03/09)*.
http://swcc.alabama.gov/pages/erosion_control.aspx?sm=b_b
- For more information or ideas on BMPs, see EPA's National Menu of BMPs
www.epa.gov/npdes/stormwater/menuofbmps
- 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.

3.1 Material Handling and Waste Management

Instructions:

- Describe measures (e.g., trash disposal, sanitary wastes, recycling, and proper material handling) to prevent the discharge of solid materials and/or wastes to receiving waters, except as authorized by a permit issued under section 404 of the CWA.
- Also, see EPA’s *General Construction Site Waste Management BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/cons_wasteman

Permit Requirement(s):

Part III.D.3(h) requires a description of the procedures for handling and disposing of wastes generated at the site, including, but not limited to, clearing debris, sediment removed from the site, domestic waste, hazardous or toxic waste, and sanitary waste.

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Repeat as needed

3.2 Establish Proper Equipment Lay Down/Staging Areas

Instructions:

- Describe materials/equipment expected to be stored on-site and procedures for storage of materials/equipment to minimize exposure of the materials/equipment to stormwater.

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Repeat as needed

3.3 Designate Washout Areas

Instructions:

- Describe location(s) and controls to eliminate the potential for discharges from washout areas for concrete mixers, material hauling vehicles, etc.
- For information reference ADEM Administrative Code Chapters 335-6-5 and 335-6-6 for applicable SID and NPDES permit requirements.
- Also, see EPA's *Concrete Washout BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/concrete_wash

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Repeat as needed

3.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

Instructions:

- Describe equipment/vehicle fueling and maintenance practices that will be implemented to control pollutants to stormwater (e.g., secondary containment, drip pans, and spill kits).
- For more information reference ADEM Administrative Code Chapters 335-6-5 and 335-6-6 for applicable SID and NPDES permit requirements.
- Also, see EPA's *Vehicle Maintenance and Washing Areas BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicle_maintain

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Repeat as needed

3.5 *Non-Stormwater Discharge Management*

Instructions:

- Identify all other sources of non-stormwater discharges that are not otherwise identified herein. The non-stormwater discharges identified might include those listed below
- Identify measures used to eliminate or reduce these discharges and the BMPs used to prevent them from becoming contaminated.
- Also, see ADEM Administrative Code chapters 335-6-5 and 335-6-6 for applicable SID and NPDES permit requirements and ADEM Administrative Code r. 335-6-12-.02(c)2. and 335-6-12-.02(e) for construction associated de minimus non-stormwater and process wastewater discharges.

Permit Requirements:

Part I.B.2 of the permit authorizes the following non-stormwater discharges provided the non-stormwater component of the discharge is in compliance with Part III.C of the permit:

- (a) Waters used to wash vehicles where detergents are not used;
- (b) Water used to control dust;
- (c) Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, as long as they are managed to minimize pollutants from discharges to the maximum extent practicable;
- (d) Discharges from fire-fighting activities; and
- (e) Uncontaminated air conditioning or compressor condensate associated with temporary office trailers and other similar buildings;

Part III.D.3(e) of the permit requires a description of the pollution prevention measures used to manage non-stormwater discharges.

Table 2. Non-Stormwater Discharges

Non-Stormwater Discharges	Pollution Prevention Measures

Tab to add additional entries if needed.

3.6 *Equipment/Vehicle Washing*

Instructions:

- Describe equipment/vehicle washing practices that will be implemented to control pollutants to stormwater.
- For more information reference ADEM Administrative Code Chapters 335-6-5 and 335-6-6 for applicable SID and NPDES permit requirements.
- Discharges containing solvents/detergents and/or petroleum is prohibited under this permit and must be authorized under an NPDES industrial permit.
- Also, see EPA's *Vehicle Maintenance and Washing Areas BMP Fact Sheet* at www.epa.gov/npdes/stormwater/menuofbmps/construction/vehicle_maintain

Permanent **Temporary**

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Permanent **Temporary**

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Repeat as needed

3.7 Spill Prevention, Control and Management

Instructions:

- A Spill Prevention, Control and Countermeasures (SPCC) Plan as set forth at 40 CFR Part 112 is required for petroleum products. The SPCC Plan should be prepared as a separate document or as a component of the BMP Plan.
- Describe the spill prevention and control plan to include ways to reduce the chance of spills, stop the source of spills, contain and clean up spills, dispose of materials contaminated by spills, and train personnel responsible for spill prevention and control.
- Also, see EPA's *Spill Prevention and Control Plan BMP Fact sheet* at www.epa.gov/npdes/stormwater/menuofbmeps/construction/spill_control

Permit Requirement(s):

Part III.F of the permit requires the Permittee to prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 CFR Part 112 and ADEM Admin Code r.335-6-6-.12(r) for all applicable onsite petroleum storage tanks. The Permittee shall also prepare, implement, and maintain a SPCC Plan in accordance with ADEM Admin Code r.335-6-6-.12(r) for any stored pollutant(s) that may, if spilled, be reasonably expected to enter a water of the state or the collection system for a publicly or privately owned treatment works. The SPCC Plan(s) shall be maintained as a separate document or as part of the BMP Plan required in Part III.D of the permit. The Permittee shall implement appropriate structural and/or non-structural spill prevention, control, and/or management sufficient to prevent any spills of pollutants from entering a water of the state or a publicly or privately owned treatment works. The plan(s) must be consistent with the requirements of 40 CFR Part 112 and/or ADEM Admin Code r.335-6-6-.12(r). Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and of materials which shall prevent the contamination of groundwater and shall be capable of retaining 110 percent of the volume of the largest container of pollutants for which the containment system is provided. The Permittee shall maintain onsite or have readily available sufficient oil & grease absorbing material and flotation booms to contain and clean-up fuel or chemical spills and leaks. Soil contaminated by paint or chemical spills, oil spills, etc. must be immediately cleaned up, remediated, or be removed and disposed of in a Department approved manner.

[Insert text here or reference attachment](#)

3.8 Sediment Removal

Instructions:

- Describe the procedures for removal of accumulated sediment.

Permit Requirement(s):

Part III.D.3(g)i of the permit requires the Permittee to describe the procedures for the removal of sediment or other pollutants that have accumulated in or near any sediment control measures, stormwater conveyance channels, or water course conveyance.

Part III.D.3(g)ii of the permit requires the Permittee to describe the procedures for the removal of accumulated sediment that has been trapped by sediment control measures at the site, in accordance with applicable maintenance requirements covered under the permit, including a schedule for removal.

[Include description\(s\) and schedule for removal here, or reference attachment](#)

3.9 Any Additional BMPs

Instructions:

- Describe any additional BMPs that do not fit into the above categories. Indicate the problem they are intended to address.
- Consult the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas June 2003* (Revised, 03/09)

Permanent

Temporary

Detailed BMP Description:

Maintenance:

Inspection:

Responsible Staff:

Permanent

Temporary

Detailed BMP Description:

Maintenance:

Inspection:

Responsible Staff:

Repeat as needed

SECTION 4: INSPECTIONS

4.1 Inspections

Instructions:

- Identify the individual(s) responsible for conducting inspections and describe their qualifications. ADEM Form 500 must be used. <http://www.adem.state.al.us/DeptForms/Formpdf.htm>
- Pending your activity and following the requirements of Part III.H of the permit, describe the frequency that inspections will occur at your site including any correlations to storm frequency and intensity.
- Note that inspection details for particular BMPs should be included in Sections 2 and 3.
- You should also document the repairs and maintenance that you undertake as a result of your inspections. These actions can be documented in the corrective action log described in Part 5.3 below.

Permit Requirement(s):

Part III.H. - Inspection Requirements

1. Weekly Observations

- (a) At least once per week, the Permittee shall visually observe that portion of the mining activity where active disturbance or work occurred to note any apparent BMP deficiencies in the area of active disturbance.
- (b) Such weekly observations may be performed by appropriate site personnel.
- (c) The Permittee shall maintain a log of all weekly observations and record in such log any rainfall measurements and BMP deficiencies observed.

2. Site Inspections

- (a) A site inspection shall consist of a complete and comprehensive observation of the entire mining site including all areas used for storage of materials that are exposed to precipitation, affected ditches and other stormwater conveyances, as well as all outfalls, receiving waters and stream banks to determine if, and ensure that:
 - i. Effective erosion controls and sediment controls have been fully implemented and maintained in accordance with this permit, the site BMP Plan, and the Alabama Handbook;
 - ii. Pollutant discharges have been prevented/minimized to the maximum extent practicable, and
 - iii. Discharges do not result in a contravention of applicable State water quality standards for the receiving stream(s) or other waters impacted or affected by the Permittee.
- (b) Site inspections shall be performed by a QCI, QCP, or a qualified person under the direct supervision of a QCP.
- (c) A site inspection shall be performed once each month and after any qualifying precipitation event, by a QCI, QCP, or a qualified person under the direct supervision of a QCP, commencing as promptly as possible, but no later than 24-hours after resuming or continuing active construction or disturbance, and completed no later than 72-hours following the qualifying precipitation event.
- (d) A site inspection shall be performed a minimum of once every six (6) months by a QCP or a qualified person under the direct supervision of a QCP.
- (e) A site inspection shall also be performed as often as is necessary until any poorly functioning erosion controls or sediment controls, non-compliant discharges, or any other deficiencies observed during a prior inspection are corrected and documented as being in compliance with the requirements of this permit.

- (f) Unless otherwise required by the Department, inspections or evaluations required by Part III.H.2.(c) and (d), do not have to be conducted for noncoal/nonmetallic mining sites regulated under this Permit provided:
- i. The operator submits to the Department certification from a QCP, a minimum of once every three (3) months that the noncoal/nonmetallic mining site is designed and is being operated with significant freeboard due to incised mining excavation or incised storage basins to prevent all discharges resulting from groundwater intrusion, precipitation events less than the applicable 50-year, 24-hour precipitation event, or other stormwater sources to surface waters of the State. Inspections shall be conducted once per quarter (Jan-Mar, Apr-June, July-Sept, Oct-Dec).
 - ii. The noncoal/nonmetallic mining site has been operated and is being operated in full compliance with the applicable requirements of this Permit; and
 - iii. In the case of precipitation that equals or exceeds the 50-year, 24-hour storm event, the QCP conducts a comprehensive inspection of the noncoal/nonmetallic mining site within 72-hours of said event, and a detailed report is submitted to the Department within seven (7) days of the inspection if non-compliant discharges, deficient BMPs, or other deficiencies or noncompliance with the requirements of this Permit are observed.

1. Inspection Personnel: Identify the person(s) who will be responsible for conducting inspections and describe their qualifications:

Weekly Inspections:

Monthly Inspections:

Precipitation Event Inspections:

Comprehensive BMP Plan Evaluation (to be conducted at a minimum of once every 6 months by QCP):

2. Inspection Schedule and Procedures:

Describe the inspection schedules and procedures you have developed for your site (include frequency of inspections for each BMP or group of BMPs, indicate when you will inspect, e.g., before/during/and after rain events, spot inspections):

Describe the general procedures for correcting problems when they are identified. Include responsible staff and time frames for making corrections:

Attach a copy of ADEM Form 500.
REFERENCE ATTACHMENT

4.2 Corrective Action Log

Instructions:

- Create here, or as an attachment, a corrective action log. This log should describe repair, replacement, and maintenance of BMPs undertaken as a result of the inspections and maintenance procedures described above. Actions related to the findings of inspections should reference the specific inspection report.
- This log should describe actions taken; date completed, and note the person that completed the work.

Permit Requirement(s):

Part III.I.1 of the permit requires any poorly functioning erosion controls or sediment controls, non-compliant discharges, or any other deficiencies observed during the inspections required under Part III.H.2 shall be corrected as soon as possible, but not to exceed five (5) days from the inspection unless prevented by unsafe weather conditions.

Part III.I.2 of the permit requires that in the event of a breach of a sediment basin/pond, temporary containment measures shall be taken within 24 hours after the inspection. Permanent corrective measures shall be implemented within five (5) days of the inspection; however, if permanent corrective measures cannot be implemented within the timeframes provided herein the Permittee shall contact the Department.

Part III.I.3 of the permit requires that the operator shall promptly take all reasonable steps to remove, to the maximum extent practical, pollutants deposited offsite or in any waterbody or stormwater conveyance structure.

Corrective Action Log:

INSERT LOG HERE or REFERENCE ATTACHMENT

SECTION 5: RECORDKEEPING AND TRAINING

5.1 Recordkeeping

Instructions:

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.

Permit Requirement(s):

Part IV.J.1 of the permit requires that the Permittee shall retain records of all inspection records, monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete such reports, for a period of at least three (3) years from the date of the inspection, sample measurement, or report. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of these records, the records shall be kept until the litigation is resolved.

Part IV.J.2 of the permit requires that all records required to be kept for a period of three (3) years shall be kept at the permitted facility or an alternate location identified to the Department in writing and shall be available for inspection.

Records shall be retained for a minimum period of at least 3 years after the permit is terminated.

REFERENCE ATTACHMENT(S)

5.2 Log of Changes to the BMP Plan

Instructions:

- Create a log here, or as 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.

Permit Requirement(s):

Part III.D.4.(a) of the permit requires that the BMP Plan shall be updated as necessary to address changes to the mining site, site weather patterns, new TMDLs approved or established by EPA, new 303(d) listings approved by EPA, or manufacturer specifications for specific control technologies.

Part III.D.4.(b) of the permit requires that the BMP Plan shall be amended if inspections or investigations by site staff or by local, state, or federal officials determine that the existing sediment control measures, erosion control measures, or other site management practices are ineffective or do not meet the requirements of this permit.

Part III.D.4.(c) of the permit requires that sediment control measures, erosion control measures, or other site management practices prove ineffective in protecting water quality or need to be modified; or if additional sediment control measures, erosion control measures, or other site management practices are necessary to meet the requirements of Part III. A, B, C, and F, implementation shall be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, then the mining activity must cease until the modified or additional controls can be implemented.

Part III.D.4.(d) of the permit requires that a current copy of the BMP Plan shall be maintained at the site during normal operating hours as defined by Part IV.EE.23, of this permit, and made available upon request by the Department.

Log of changes and updates to the BMP Plan
INSERT LOG HERE or REFERENCE ATTACHMENT

5.3 Training

Instructions:

- 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.

Permit Requirements:

Part III.F. Training:

Unless the Permittee has employed or contracted with a QCP to perform duties as required by this permit, and the QCP is readily available and able to be present onsite as often as is necessary to ensure full compliance with the requirements of this permit, the Permittee shall ensure that:

1. At least one onsite employee shall be certified as a Qualified Credentialed Inspector (QCI) by completing an initial training and annual refreshers through an ADEM-approved Qualified Credentialed Inspector Program (QCIP) conducted by a cooperating training entity.
2. The QCIP must be approved by the Department prior to use and provide training in the following areas:
 - a. The applicable requirements of the Alabama NPDES rules;
 - b. The requirements of this permit;
 - c. The evaluation of mining sites to ensure that QCP designed and certified erosion controls and sediment controls detailed in a BMP Plan are effectively implemented and maintained;
 - d. The evaluation of conveyance structures, receiving waters and adjacent impacted offsite areas to ensure the protection of water quality and compliance with the requirements of this permit; and
 - e. The general operation of a turbidity meter or similar device intended for the measurement of turbidity.
3. Each individual holding a QCI Certification need not be on-site continuously and they may conduct site inspections at multiple sites permitted by them or their employer.
4. Each individual holding QCI certification shall obtain annual certification of satisfactory completion of formal refresher education or training regarding general erosion controls and sediment controls, the requirements of this permit, and the general operation of a turbidity meter or similar device intended for the measurement of turbidity. The refresher training requirements, including but not limited to, appropriate curricula, course content, course length, and any participant testing, shall be subject to acceptance by the Director prior to use.

Individual(s) Responsible for Training:

INSERT TEXT or TABLE HERE

Describe Training Conducted:

- General stormwater and BMP awareness training for staff and subcontractors:
- Detailed training for staff and subcontractors with specific stormwater responsibilities:

SECTION 6: FINAL STABILIZATION

Instructions:

- Describe procedures for final stabilization. If you complete mining activities on part of your site, document your final stabilization efforts for that portion of the site.
- Consult the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas June 2003* (Revised, 03/09)

Permit Requirement(s):

Part III.B. of the permit requires that final stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any excavating or other earth disturbing activities have permanently ceased on any portion of the mining site.

As defined in Part IV.EE.16 of the permit, Final Stabilization means the application and establishment of permanent ground cover (vegetative, pavements of erosion resistant hard or soft material or impervious structures) planned for the site to permanently eliminate soil erosion to the maximum extent practicable. Final Stabilization also means that all disturbed areas have been graded, slopes effectively stabilized, and perennial vegetation has been established to the maximum extent practicable to protect water quality. 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. Permanent vegetation shall consist of: planted trees, shrubs, perennial vines; an agricultural or a perennial crop of vegetation appropriate for the region.

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Permanent

Temporary

Detailed BMP Description:

Maintenance:	
Inspection:	
Responsible Staff:	

Repeat as needed

SECTION 7: CERTIFICATION AND NOTIFICATION

I certify under penalty of law that the technical information and data contained in this application, and a comprehensive Best Management Practices Plan (BMP Plan) for the prevention and minimization of all sources of pollution in stormwater and authorized related process wastewater runoff has been prepared under my supervision for this facility and associated regulated areas/activities. The BMP Plan meets the requirements of this permit and if properly implemented and maintained by the permittee, discharges of pollutants in stormwater runoff can reasonably be expected to be effectively minimized to the maximum extent practicable according to the requirements of ADEM Administrative Code Chapter 335-6-6-.23 and this Permit. The permittee has been advised that appropriate best management practices, pollution abatement/prevention facilities and structural & nonstructural management practices or Department approved equivalent management practices as detailed in the BMP Plan must be fully implemented and regularly maintained as needed at the facility in accordance with sound sediment, erosion, and other pollution control practices, permit requirements, and other ADEM requirements to ensure protection of groundwater and surface water quality.

Additionally, all BMPs discussed in this BMP Plan were designed/selected and will be implemented and maintained in accordance with the *Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas*.

Name: _____ Title: _____

QCP Designation/Description: _____ Registration/Certification: _____

Address: _____ Phone Number: _____

Signature: _____ Date: _____

BMP Plan APPENDICES

Attach the following documentation to the BMP Plan:

Appendix A – General Location Map

Appendix B – Site Maps

Appendix C – NOI and Copy of Permit

Appendix D – Inspection Reports

Appendix E – Corrective Action Log (or in Part 4.2)

Appendix F – BMP Plan Amendment Log (or in Part 5.2)

Appendix G – Additional Information (i.e., Endangered Species, Historic Preservation, and U.S. Corps of Engineers Documentation)

Appendix A – General Location Map

[INSERT MAP HERE]

Appendix B – Site Maps

[INSERT MAPS HERE]

Appendix C – NOI and Copy of Permit

[INSERT DOCUMENTS HERE]

Appendix D – Inspection Reports

[INSERT REPORTS HERE]

Appendix G – Additional Information (i.e., Endangered Species, Historic Preservation, and U.S. Corps of Engineers Documentation)

[INSERT ADDITIONAL INFORMATION HERE]