

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) NPDES INDIVIDUAL PERMIT APPLICATION (MINING OPERATIONS)

Instructions: This form should be used to submit an application for an NPDES individual permit to authorize discharges from surface & underground mineral, ore, or mineral product mining, quarrying, excavation, borrowing, hydraulic mining, storage, processing, preparation, recovery, handling, loading, storing, or disposing activities, and associated areas including pre-mining site development, construction, excavation, clearing, disturbance, and reclamation. Please complete all questions. Respond with "N/A" as appropriate. Incomplete or incorrect answers or missing signatures will delay processing. Attach additional comments or information as needed. If space is insufficient, continue on an attached sheet(s) as necessary. Commencement of activities applied for as detailed in this application are not authorized until permit coverage has been issued by the Department. Please type or print legibly in blue or black ink.

PURPOSE OF THIS APPLICATION

- Initial Permit Application for New Facility
 Initial Permit Application for Existing Facility (e.g. facility previously permitted less than 5 acres)
 Modification of Existing Permit
 Reissuance of Existing Permit
 Reissuance & Modification Existing Permit
 Reissuance & Transfer of Existing Permit
 Revocation and Reissuance of Existing Permit
 Other

I. GENERAL INFORMATION

| | |
|--|---|
| NPDES Permit Number (Not applicable if initial permit application): <i>AL</i> _____ | County(s) in which Facility is Located: |
|--|---|

| | | | |
|---------------------------------------|-----------------------|---|--------|
| Company/Permittee Name: | | Facility Name (e.g., Mine Name, Pit Name, etc.): | |
| Mailing Address of Company/Permittee: | | Physical Address of Facility (as near as possible to entrance): | |
| City: | State: | Zip: | City: |
| | | | State: |
| | | | Zip: |
| Permittee Phone Number: | Permittee Fax Number: | Latitude and Longitude of entrance: | |

| | | | |
|---|-------------------------------------|---|--------|
| Responsible Official (as described on page 12 of this application): | | Responsible Official Title: | |
| Mailing Address of Responsible Official: | | Physical Address of Responsible Official: | |
| City: | State: | Zip: | City: |
| | | | State: |
| | | | Zip: |
| Phone Number of Responsible Official: | Fax Number of Responsible Official: | Email Address of Responsible Official: | |

| | | | |
|---------------------------------------|--------|-----------------------------------|------------------------------------|
| Facility Contact: | | Facility Contact Title: | |
| Physical Address of Facility Contact: | | Phone Number of Facility Contact: | Fax Number of Facility Contact: |
| City: | State: | Zip: | Email Address of Facility Contact: |

II. MEMBER INFORMATION

A. Identify the name, title/position, and unless waived in writing by the Department, the residence address of every officer, general partner, LLP partner, LLC member, investor, director, or person performing a function similar to a director, of the applicant, and each person who is the record or beneficial owner of 10 percent or more of any class of voting stock of the applicant, or any other responsible official(s) of the applicant with legal or decision making responsibility or authority for the facility:

| | | |
|-------|-----------------|--|
| Name: | Title/Position: | Physical Address of Residence (P.O. Box is Not Acceptable) |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

B. Other than the "Company/Permittee" listed in Part I., identify the name of each corporation, partnership, association, and single proprietorship for which any individual identified in Part II.A. is or was an officer, general partner, LLP partner, LLC member, investor, director, or individual performing a function similar to a director, or principal (10% or more) stockholder, that had an Alabama NPDES permit at any time during the five year (60 month) period immediately preceding the date on which this form is signed:

| | | |
|--|-------------------------------------|--|
| Name of Corporation, Partnership, Association, or Single Proprietorship: | Name of Individual from Part II.A.: | Title/Position in Corporation, Partnership, Association, or Single Proprietorship: |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

III. LEGAL STRUCTURE OF APPLICANT

A. Indicate the legal structure of the "Company/Permittee" listed in Part I:

Corporation
 Association
 Individual
 Single Proprietorship
 Partnership
 LLP
 LLC
 Government Agency: _____
 Other: _____

B. If not an individual or single proprietorship, is the "Company/Permittee" listed in Part I. properly registered and in good standing with the Alabama Secretary of State's Office? (If the answer is "No," attach a letter of explanation.) Yes No

C. Parent Corporation and Subsidiary Corporations of Applicant, if any: _____

D. Land Owner(s): _____

E. Mining Sub-contractor(s)/Operator(s), if known: _____

IV. COMPLIANCE HISTORY

A. Has the applicant ever had any of the following:

| | | | |
|--|--------------------------|--------------------------|--|
| | Yes | No | |
| (1) An Alabama NPDES, SID, or UIC permit suspended or terminated? | <input type="checkbox"/> | <input type="checkbox"/> | |
| (2) An Alabama license to mine suspended or revoked? | <input type="checkbox"/> | <input type="checkbox"/> | |
| (3) An Alabama or federal mining permit suspended or terminated? | <input type="checkbox"/> | <input type="checkbox"/> | |
| (4) A reclamation bond, or similar security deposited in lieu of a bond, or portion thereof, forfeited? | | | Yes No <input type="checkbox"/> <input type="checkbox"/> |
| (5) A bond or similar security deposited in lieu of a bond, or portion thereof, the purpose of which was to secure compliance with any requirement of the Alabama Water Improvement Commission or Alabama Department of Environmental Management, forfeited? | | | <input type="checkbox"/> <input type="checkbox"/> |

(If the response to any item of Part IV.A. is "Yes," attach a letter of explanation.)

B. Identify every Warning Letter, Notice of Violation (NOV), Administrative Action, or litigation issued to the applicant, parent corporation, subsidiary, general partner, LLP partner, or LLC member and filed by ADEM or EPA during the three year (36 months) period preceding the date on which this form is signed. Indicate the date of issuance, briefly describe alleged violations, list actions (if any) to abate alleged violations, and indicate date of final resolution:

V. OTHER PERMITS/AUTHORIZATIONS

- A. List any other NPDES or other environmental permits (including permit numbers), authorizations, or certifications that have been applied for or issued within the State by ADEM, EPA, Alabama Surface Mining Commission (ASMC), Alabama Department of Labor (ADOL), US Army Corp of Engineers (USACE), or other agency, to the applicant, parent corporation, subsidiary, or LLC member for this facility whether presently effective, expired, suspended, revoked, or terminated:
- B. List any other NPDES or other ADEM permits (including permit numbers), authorizations, or certifications that have been applied for or issued within the State by ADEM, EPA, ASMC, ADOL or USACE, to the applicant, parent corporation, subsidiary, or LLC member for other facilities whether presently effective, expired, suspended, revoked, or terminated:

VI. PROPOSED SCHEDULE

Anticipated Activity Commencement Date: _____ Anticipated Activity Completion Date: _____

VII. ACTIVITY DESCRIPTION & INFORMATION

- A. Proposed Total Area of the Permitted Site: _____ acres Proposed Total Disturbed Area of the Permitted Site: _____ acres
- B. Township(s), Range(s), Section(s): _____
- C. Detailed Directions to Site:
- D. Is/ will this facility:
- | | Yes | No |
|---|--------------------------|--------------------------|
| (1) an existing facility which currently results in discharges to State waters? | <input type="checkbox"/> | <input type="checkbox"/> |
| (2) a proposed facility which will result in a discharge to State waters? | <input type="checkbox"/> | <input type="checkbox"/> |
| (3) be located within any 100-year flood plain? | <input type="checkbox"/> | <input type="checkbox"/> |
| (4) discharge to Municipal Separate Storm Sewer? | <input type="checkbox"/> | <input type="checkbox"/> |
| (5) discharge to waters of or be located in the Coastal Zone? | <input type="checkbox"/> | <input type="checkbox"/> |
| (6) need/have ADEM UIC permit coverage? | <input type="checkbox"/> | <input type="checkbox"/> |
| (7) be located on Indian/ historically significant lands? | <input type="checkbox"/> | <input type="checkbox"/> |
| (8) need/have ADEM SID permit coverage? | <input type="checkbox"/> | <input type="checkbox"/> |
| (9) need/have ASMC permit coverage? | <input type="checkbox"/> | <input type="checkbox"/> |
| (10) need/have ADOL permit coverage? | <input type="checkbox"/> | <input type="checkbox"/> |
| (11) generate, treat, store, or dispose of hazardous or toxic waste ? (If "Yes," attach a detailed explanation.) | <input type="checkbox"/> | <input type="checkbox"/> |
| (12) be located in or discharge to a Public Water Supply (PWS) watershed or be located within 1/2 mile of any PWS well? | <input type="checkbox"/> | <input type="checkbox"/> |

VIII. MATERIAL TO BE REMOVED, PROCESSED, OR TRANSLOADED

List relative percentages of the mineral(s) or mineral product(s) that are proposed to be and/or are currently mined, quarried, recovered, prepared, processed, handled, transloaded, or disposed at the facility. **If more than one mineral is to be mined, list the relative percentages of each mineral by tonnage for the life of the mine.**

| | | | | |
|---|------------------------|---|------------------------------|----------------------------|
| _____ Dirt &/or Chert | _____ Sand &/or Gravel | _____ Chalk | _____ Talc | _____ Crushed rock (other) |
| _____ Bentonite | _____ Industrial Sand | _____ Marble | _____ Shale &/or Common Clay | _____ Sandstone |
| _____ Coal | _____ Kaolin | _____ Coal fines/refuse recovery | _____ Coal product, coke | _____ Slag, Red Rock |
| _____ Fire clay | _____ Iron ore | _____ Dimension stone | _____ Phosphate rock | _____ Granite |
| _____ Bauxitic Clay | _____ Bauxite Ore | _____ Limestone, crushed limestone and dolomite | | |
| _____ Gold, other trace minerals: _____ | | | _____ Other: _____ | |
| _____ Other: _____ | | | _____ Other: _____ | |
| _____ Other: _____ | | | _____ Other: _____ | |

IX. PROPOSED ACTIVITY TO BE CONDUCTED

A. Type(s) of activity presently conducted at applicant's existing facility or proposed to be conducted at facility (check all that apply):

| | | | | |
|---|---|--|--|--|
| <input type="checkbox"/> Surface mining | <input type="checkbox"/> Underground mining | <input type="checkbox"/> Quarrying | <input type="checkbox"/> Auger mining | <input type="checkbox"/> Hydraulic mining |
| <input type="checkbox"/> Within-bank mining | <input type="checkbox"/> Solution mining | <input type="checkbox"/> Mineral storing | <input type="checkbox"/> Lime production | <input type="checkbox"/> Cement production |
| <input type="checkbox"/> Synthetic fuel production | <input type="checkbox"/> Alternative fuels operation | <input type="checkbox"/> Mineral dry processing (crushing & screening) | <input type="checkbox"/> Mineral wet preparation | |
| <input type="checkbox"/> Other beneficiation & manufacturing operations | | <input type="checkbox"/> Mineral loading | <input type="checkbox"/> Chemical processing or leaching | |
| <input type="checkbox"/> Construction related temporary borrow pits/areas | <input type="checkbox"/> Mineral transportation rail barge truck | | | |
| <input type="checkbox"/> Preparation plant waste recovery | <input type="checkbox"/> Hydraulic mining, dredging, instream or between stream-bank mining | | | |
| <input type="checkbox"/> Grading, clearing, grubbing, etc. | <input type="checkbox"/> Pre-construction ponded water removal | <input type="checkbox"/> Excavation | | |
| <input type="checkbox"/> Pre-mining logging or land clearing | <input type="checkbox"/> Waterbody relocation or other alteration | <input type="checkbox"/> Creek/stream crossings | | |
| <input type="checkbox"/> Onsite construction debris or equipment storage/disposal | <input type="checkbox"/> Onsite mining debris or equipment storage/disposal | | | |
| <input type="checkbox"/> Reclamation of disturbed areas | <input type="checkbox"/> Chemicals used in process or wastewater treatment (coagulant, biocide, etc.) | | | |
| <input type="checkbox"/> Adjacent/associated asphalt/concrete plant(s) | <input type="checkbox"/> Low volume sewage treatment package plant | | | |
| <input type="checkbox"/> Other: _____ | | | | |

B. Primary SIC Code: _____ NAICS Code: _____ Description: _____
 Secondary SIC Code(s): _____ NAICS Code: _____ Description: _____

C. Narrative Description of the Activity:

X. FUEL – CHEMICAL HANDLING, STORAGE & SPILL PREVENTION CONTROL & COUNTERMEASURES (SPCC) PLAN

A. Will fuels, chemicals, compounds, or liquid waste be used or stored onsite? Yes No

B. If "Yes," identify the fuel, chemicals, compounds, or liquid waste and indicate the volume of each:

| <i>Volume</i> | <i>Contents</i> | <i>Volume</i> | <i>Contents</i> | <i>Volume</i> | <i>Contents</i> |
|---------------|-----------------|---------------|-----------------|---------------|-----------------|
| _____ gallons | _____ | _____ gallons | _____ | _____ gallons | _____ |
| _____ gallons | _____ | _____ gallons | _____ | _____ gallons | _____ |

C. If "Yes," a detailed SPCC Plan with acceptable format and content, including diagrams, must be attached to application in accordance with ADEM Admin. Code R. 335-6-6-.12(r). Unless waived in writing by the Department on a programmatic, categorical, or individual compound/chemical basis, Material Safety Data Sheets (MSDS) for chemicals/compounds used or proposed to be used at the facility must be included in the SPCC Plan submittal.

XI. POLLUTION ABATEMENT & PREVENTION (PAP) PLAN

A. For non-coal mining facilities, a PAP Plan in accordance with ADEM Admin. Code r. 335-6-9-.03 has been completed and is attached as part of this application. Yes No

B. For coal mining facilities, a detailed PAP Plan has been submitted to ASMC according to submittal procedures for ASMC regulated facilities. Yes No

(1) If "Yes" to Part XI.B., provide the date that the PAP Plan was submitted to ASMC: _____

(2) If "No" to Part XI.B., provide the anticipated date that the PAP Plan will be submitted to ASMC: _____

XII. ASMC REGULATED ENTITIES

A. Is this coal mining operation regulated by ASMC? Yes No

B. If "Yes", provide copies as part of this application of any pre-mining hydrologic sampling reports and Hydrologic Monitoring Reports which have been submitted to ASMC within the 36 months prior to submittal of this application.

XIII. TOPOGRAPHIC MAP SUBMITTAL

Attach to this application a 7.5 minute series U.S.G.S. topographic map(s) or equivalent map(s) no larger than, or folded to a size of 8.5 by 11 inches (several pages may be necessary), of the area extending to at least one mile beyond property boundaries. The topographic or equivalent map(s) must include a caption indicating the name of the topographic map, name of the applicant, facility name, county, and township, range, & section(s) where the facility is located. Unless approved in advance by the Department, the topographic or equivalent map(s), at a minimum, must show:

- (a) An accurate outline of the area to be covered by the permit
- (b) An outline of the facility
- (c) All existing and proposed disturbed areas
- (d) Location of discharge areas
- (e) Proposed and existing discharge points
- (f) Perennial, intermittent, and ephemeral streams
- (g) Lakes, springs, water wells, wetlands
- (h) All known facility dirt/improved access/haul roads
- (i) All surrounding unimproved/improved roads
- (j) High-tension power lines and railroad tracks
- (k) Buildings and structures, including fuel/water tanks
- (l) Contour lines, township-range-section lines
- (m) Drainage patterns, swales, washes
- (n) All drainage conveyance/treatment structures (ditches, berms, etc.)
- (o) Any other pertinent or significant feature

XIV. DETAILED FACILITY MAP SUBMITTAL

Attach to this application a 1:500 scale or better, detailed auto-CAD map(s) or equivalent map(s) no larger than, or folded to a size of 8.5 by 11 inches (several pages may be necessary), of the facility. The facility map(s) must include a caption indicating the name of the facility, name of the applicant, facility name, county, and township, range, & section(s) where the facility is located. Unless approved in advance by the Department, the facility or equivalent map(s), at a minimum, must show:

- (a) Information listed in Item XIII (a) – (o) above
- (b) If noncoal, detailed, planned mining progression
- (c) If noncoal, location of topsoil storage areas
- (d) Location of ASMC bonded increments (if applicable)
- (e) Location of mining or pond cleanout waste storage/disposal areas
- (f) Other information relevant to facility or operation
- (g) Location of facility sign showing Permittee name, facility name, and NPDES Number

XV. RECEIVING WATERS

List the requested permit action for each outfall (issue, reissue, add, delete, move, etc.), outfall designation including denoting “E” for existing and “P” for proposed outfalls, name of receiving water(s), whether or not the stream is included in a TMDL, latitude and longitude (to seconds) of location(s) of each discharge point, distance of receiving water from outfall in feet, number of disturbed acres, the number of drainage acres which will drain through each treatment system, outfall, or BMP, and if the outfall discharges to an ADEM listed CWA Section 303(d) waterbody segment at the time of application submittal.

| Action | Outfall E/P | Receiving Water | Latitude | Longitude | Distance to Rec. Water | Disturbed Acres | Drainage Acres | ADEM WUC | 303(d) Segment (Y/N) | TMDL Segment* (Y/N) |
|--------|-------------|-----------------|----------|-----------|------------------------|-----------------|----------------|----------|----------------------|---------------------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation: (1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.); (2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be reported as available); (3) Requested interim limitations, if applicable; (4) Date of final compliance with the TMDL limitations; and (5) Any other additional information available to support the requested compliance schedule.

XVI. DISCHARGE CHARACTERIZATION

A. EPA Form 2C, EPA Form 2D, and/or Modified EPA Form 2C Submittal

- Yes, pursuant to 40 CFR §122.21, the applicant requests a waiver for completion of EPA Form 2C, EPA Form 2D, and the modified EPA Form 2C and certifies that the operating facility will discharge treated stormwater only, unless waived in writing by the Department on a programmatic, categorical, or individual compound/chemical basis that chemical/compound additives are not used, and that there are no process, manufacturing, or other industrial operations or wastewaters, including but not limited to lime or cement production, synfuel operations, *etc.*, and that coal and coal products are not mined nor stored onsite.
- No, the applicant does not request a waiver and a complete EPA Form 2C, EPA Form 2D, and/or modified EPA Form 2C is attached.

B. The applicant is required to supply the following information separately for every P or E outfall. If necessary, attach extra sheets. List expected average daily discharge flow rate in cfs and gpd, frequency of discharge in hours per day and days per month, average summer and winter temperature of discharge(s) in degrees centigrade (C), average pH in standard units, average daily discharge in pounds per day of BOD₅, Total Suspended Solids, Total Iron, Total Manganese, and Total Aluminum (if bauxite or bauxitic clay):

| Outfall E/P | Information Source - # of Samples | Flow cfs | Flow gpd | Frequency hours/day | Frequency days/month | Sum/Win Temp, °C | pH s.u. | BOD ₅ lbs/day | TSS lbs/day | Tot Fe lbs/day | Tot Mn lbs/day | Tot Al lbs/day |
|-------------|-----------------------------------|----------|----------|---------------------|----------------------|------------------|---------|--------------------------|-------------|----------------|----------------|----------------|
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

C. The applicant is required to supply the following information separately for every P or E outfall. If necessary, attach extra sheets. Identify and list expected average daily discharge in pounds per day of any other pollutant(s) listed in EPA Form 2C, Item V – Intake And Effluent Characteristics, Parts A, B, & C that are not referenced in Part XV.B., that you know is present or have reason to believe could be present in the discharge(s) at levels of concern:

| Outfall E/P | Reason Believed Present | Information Source - # of Samples | | | | | | | | | |
|-------------|-------------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | lbs/day | lbs/day | lbs/day | lbs/day | lbs/day | lbs/day | lbs/day | lbs/day | lbs/day |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

XVII. DISCHARGE STRUCTURE DESCRIPTION & POLLUTANT SOURCE

The applicant is required to supply outfall number(s) as it appears on the map(s) required by this application [if this application is for a modification to an existing permit do not change the numbering sequence of the permitted outfalls], describe each, (e.g., pipe, spillway, channel, tunnel, conduit, well, discrete fissure, or container), and identify the origin of pollutants. The response must be precise for each outfall. If the discharge of pollutants from any outfall is the result of commingling of waste streams from different origins, each origin must be completely described.

| Outfall | Discharge structure Description | Description of Origin of pollutants | Surface Discharge | Groundwater Discharge | Wet Prep -Other Production Plant | Pumped or Controlled Discharge | Low Volume STP | Other |
|---------|---------------------------------|-------------------------------------|-------------------|-----------------------|----------------------------------|--------------------------------|----------------|-------|
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Origin of Pollutants – typical examples:

(1) Discharge of drainage from the underground workings of an underground coal mine, **(2)** Discharge of drainage from a coal surface mine, **(3)** Discharge of drainage from a coal preparation plant and associated areas, **(4)** Discharge of process wastewater from a gravel-washing plant, **(5)** Discharge of wastewater from an existing source coal preparation plant, **(6)** Discharge of drainage from a sand and gravel pit, **(7)** Pumped discharge from a limestone quarry, **(8)** Controlled surface mine drainage (pumped or siphoned), **(9)** Discharge of drainage from mine reclamation, or **(10) Other** (describe below).

XVIII. PROPOSED NEW OR INCREASED DISCHARGES

A. Pursuant to ADEM Admin. Code Chapter 335-6-10-.12(9), responses to the following questions must be provided by the applicant requesting NPDES permit coverage for new or expanded discharges of pollutant(s) to Tier 2 waters (except discharges eligible for coverage under general permits). As part of the permit application review process, the Department is required to consider, based on the applicant's demonstration, whether the proposed new or increased discharge to Tier 2 waters is necessary for important economic or social development in the area in which the waters are located.

Yes. New/increased discharges of pollutant(s) or discharge locations to Tier 2 waters are proposed.

No. New/increased discharges of pollutants(s) or discharge locations to Tier 2 waters are not proposed.

B. If "Yes," complete Items 1 through 6 of this Part (XVII.B.), ADEM Form 311-Alternative Analysis, and either ADEM Form 312 or ADEM Form 313-Calculation of Total Annualized Project Costs (Public-Section or Private-Sector, whichever is applicable). ADEM Form 312 or ADEM Form 313, whichever is applicable, should be completed for each technically feasible alternative evaluated on ADEM Form 311. ADEM Forms can be found on the Department's website at www.adem.alabama.gov/DeptForms. **Attach additional sheets/documentation and supporting information as needed.**

(1) What environmental or public health problem will the discharge be correcting?

(2) How much will the discharger be increasing employment (at its existing facility or as a result of locating a new facility)?

(3) How much reduction in employment will the discharger be avoiding?

(4) How much additional state or local taxes will the discharger be paying?

(5) What public service to the community will the discharger be providing?

(6) What economic or social benefit will the discharger be providing to the community?

XIX. POLLUTION ABATEMENT & PREVENTION (PAP) PLAN SUMMARY (must be completed for all outfalls)

| Y | N | N/A | Outfall(s): |
|---|---|-----|---|
| | | | Runoff from all areas of disturbance is controlled |
| | | | Drainage from pit area, stockpiles, and spoil areas directed to a sedimentation pond |
| | | | Sedimentation basin at least 0.25 acre/feet for every acre of disturbed drainage |
| | | | Sedimentation basin cleaned out when sediment accumulation is 60% of design capacity |
| | | | Trees, boulders, and other obstructions removed from pond during initial construction |
| | | | Width of top of dam greater than 12' |
| | | | Side slopes of dam no steeper than 3:1 |
| | | | Cutoff trench at least 8' wide |
| | | | Side slopes of cutoff trench no less than 1:1 |
| | | | Cutoff trench located along the centerline of the dam |
| | | | Cutoff trench extends at least 2' into bedrock or impervious soil |
| | | | Cutoff trench filled with impervious material |
| | | | Embankments and cutoff trench 95% compaction standard proctor ASTM |
| | | | Embankment free of roots, tree debris, stones >6" diameter, etc. |
| | | | Embankment constructed in lifts no greater than 12" |
| | | | Spillpipe sized to carry peak flow from a one year storm event |
| | | | Spillpipe will not chemically react with effluent |
| | | | Subsurface withdrawal |
| | | | Anti-seep collars extend radially at least 2' from each joint in spillpipe |
| | | | Splashpad at the end of the spillpipe |
| | | | Emergency Spillway sized for peak flow from 25-yr 24-hr event if discharge not into PWS classified stream |
| | | | Emergency spillway sized for peak flow from 50-yr 24-hr event if discharge is into PWS classified stream |
| | | | Emergency overflow at least 20' long |
| | | | Side slopes of emergency spillway no steeper than 2:1 |
| | | | Emergency spillway lined with riprap or concrete |
| | | | Minimum of 1.5' of freeboard between normal overflow and emergency overflow |
| | | | Minimum of 1.5' of freeboard between max. design flow of emergency spillway and top of dam |
| | | | All emergency overflows are sized to handle entire drainage area for ponds in series |
| | | | Dam stabilized with permanent vegetation |
| | | | Sustained grade of haul road <10% |
| | | | Maximum grade of haul road <15% for no more than 300' |
| | | | Outer slopes of haul road no steeper than 2:1 |
| | | | Outer slopes of haul road vegetated or otherwise stabilized |
| | | | Detail drawings supplied for all stream crossings |
| | | | Short-Term Stabilization/Grading And Temporary Vegetative Cover Plans |
| | | | Long-Term Stabilization/Grading And Permanent Reclamation or Water Quality Remediation Plans |

IDENTIFY AND PROVIDE DETAILED EXPLANATION FOR ANY "N" OR "N/A" RESPONSE(s):

XX. POLLUTION ABATEMENT & PREVENTION (PAP) PLAN REVIEW CHECKLIST

| Y | N | N/A |
|---|---|-----|
| | | |
| | | |
| | | |

PE Seal with License #
 Name and Address of Operator
 Legal Description of Facility

General Information:

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |

Name of Company
 Number of Employees
 Products to be Mined
 Hours of Operation
 Water Supply and Disposition

Topographic Map:

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |

Mine Location
 Location of Prep Plant
 Location of Treatment Basins
 Location of Discharge Points
 Location of Adjacent Streams

1"- 500' or Equivalent Facility Map:

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |

Drainage Patterns
 Mining Details
 All Roads, Structures Detailed
 All Treatment Structures Detailed

Detailed Design Diagrams:

| | | |
|--|--|--|
| | | |
| | | |
| | | |

Plan Views
 Cross-section Views
 Method of Diverting Runoff to Treatment Basins

Narrative of Operations:

| | | |
|--|--|--|
| | | |
| | | |
| | | |

Raw Materials Defined
 Processes Defined
 Products Defined

Schematic Diagram:

| | | |
|--|--|--|
| | | |
| | | |
| | | |

Points of Waste Origin
 Collection System
 Disposal System

Post Treatment Quantity and Quality of Effluent:

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |

Flow
 Suspended Solids
 Iron Concentration
 pH

Description of Waste Treatment Facility:

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |

Pre-Treatment Measures
 Recovery System
 Expected Life of Treatment Basin
 Schedule of Cleaning and/or abandonment

Other:

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |

Precipitation/Volume Calculations/Diagram Attached
 BMP Plan for Haul Roads
 Measures for Minimizing Impacts to Adjacent Stream i.e., Buffer Strips, Berms, etc.
 Methods for Minimizing Nonpoint Source Discharges
 Facility Closure Plans
 PE Rationale(s) For Alternate Standards, Designs or Plans

IDENTIFY AND PROVIDE DETAILED EXPLANATION FOR ANY "N" OR "N/A" RESPONSE(S):

XXI. INFORMATION

Contact the Department prior to submittal with any questions or to request acceptable alternate content/format. Be advised that you are not authorized to commence regulated activity until this application can be processed, publicly noticed, and approval to proceed is received in writing from the Department.

EPA Form(s) 1 and 2F need not be submitted unless specifically required by the Department. EPA Form(s) 2C and/or 2D are required to be submitted unless the applicant is eligible for a waiver and the Department grants a waiver, or unless the relevant information required by EPA Form(s) 2C and/or 2D are submitted to the Department in an alternative format acceptable to the Department.

Planned/proposed mining sites that are greater than 5 acres, that mine/process coal or metallic mineral/ore, or that have wet or chemical processing, must apply for and obtain coverage under an Individual NPDES Permit prior to commencement of any land disturbance. Such coverage may be requested via this ADEM Form 315.

The applicant is advised to contact:

- (1) The Alabama Surface Mining Commission (ASMC) if coal, coal fines, coal refuse, or other coal related materials are mined, transloaded, processed, *etc.*;
- (2) The Alabama Department of Labor (ADOL) if conducting non-coal mining operations;
- (3) The Alabama Historical Commission for requirements related to any potential historic or culturally significant sites;
- (4) The Alabama Department of Conservation and Natural Resources (ADCNR) for requirements related to potential presence of threatened/endangered species; and
- (5) The US Army Corps of Engineers, Mobile or Nashville Districts, if this project could cause fill to be placed in federal waters or could interfere with navigation.

The Department must be in receipt of a completed version of this form, including any supporting documentation, and the appropriate processing fee [including Greenfield Fee and Biomonitoring & Toxicity Limits fee(s), if applicable], prior to development of a draft NPDES permit. The completed form, supporting documentation, and the appropriate fees must be submitted to:

Water Division
Alabama Department of Environmental Management
Post Office Box 301463
Montgomery, Alabama 36130-1463
Phone: (334) 271-7823
Fax: (334) 279-3051
h2omail@adem.alabama.gov
www.adem.alabama.gov

XXII. PROFESSIONAL ENGINEER (PE) CERTIFICATION

A detailed, comprehensive Pollution Abatement & Prevention (PAP) Plan must be prepared, signed, and certified by a professional engineer (PE), registered in the State of Alabama, and the PE must certify as follows:

“I certify on behalf of the applicant, that I have completed an evaluation of discharge alternatives (Item XVIII) for any proposed new or increased discharges of pollutant(s) to Tier 2 waters and reached the conclusions indicated. I certify under penalty of law that technical information and data contained in this application, and a comprehensive PAP Plan including any attached SPCC plan, maps, engineering designs, etc. acceptable to ADEM, 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 utilizing effective, good engineering and pollution control practices and in accordance with the provisions of ADEM Admin. Code Division 335-6, including Chapter 335-6-9 and Appendices A & B. If the PAP Plan is properly implemented and maintained by the Permittee, discharges of pollutants can reasonably be expected to be effectively minimized to the maximum extent practicable and according to permit discharge limitations and other permit requirements. The applicant has been advised that appropriate pollution abatement/prevention facilities and structural & nonstructural management practices or Department approved equivalent management practices as detailed in the PAP Plan must be fully implemented and regularly maintained as needed at the facility in accordance with good sediment, erosion, and other pollution control practices, permit requirements, and other ADEM requirements to ensure protection of groundwater and surface water quality.”

Address _____

PE Registration # _____

Name and Title (type or print) _____

Phone Number _____

Signature _____

Date Signed _____

XXIII. RESPONSIBLE OFFICIAL SIGNATURE*

This application must be signed by a Responsible Official of the applicant pursuant to ADEM Admin. Code Rule 335-6-6-.09 who has overall responsibility for the operation of the facility.

“I certify under penalty of law that this document, including technical information and data, the PAP Plan, including any SPCC plan, maps, engineering designs, and all other 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 PE and other person or persons under my supervision 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 or imprisonment for knowing violations.

“A comprehensive PAP Plan to prevent and minimize discharges of pollution to the maximum extent practicable has been prepared at my direction by a PE for this facility utilizing effective, good engineering and pollution control practices and in accordance with the provisions of ADEM Admin. Code Division 335-6, including Chapter 335-6-9 and Appendices A & B, and information contained in this application, including any attachments. I understand that regular inspections must be performed by, or under the direct supervision of, a PE and all appropriate pollution abatement/prevention facilities and structural & nonstructural management practices or Department approved equivalent management practices identified by the PE must be fully implemented prior to and concurrent with commencement of regulated activities and regularly maintained as needed at the facility in accordance with good sediment, erosion, and other pollution control practices and ADEM requirements. I understand that the PAP Plan must be fully implemented and regularly maintained so that discharges of pollutants can reasonably be expected to be effectively minimized to the maximum extent practicable and according to permit discharge limitations and other requirements to ensure protection of groundwater and surface water quality. I understand that failure to fully implement and regularly maintain required management practices for the protection of groundwater and surface water quality may subject the Permittee to appropriate enforcement action.

“I certify that this form has not been altered, and if copied or reproduced, is consistent in format and identical in content to the ADEM approved form.

“I further certify that the discharges described in this application have been tested or evaluated for the presence of non-stormwater discharges and any non-mining associated beneficiation/process pollutants and wastewaters have been fully identified.”

Name (type or print) _____ Official Title _____
Signature _____ Date Signed _____

*335-6-6-.09 Signatories to Permit Applications and Reports.

- (1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
 - (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
 - (b) In the case of a partnership, by a general partner;
 - (c) In the case of a sole proprietorship, by the proprietor; or
 - (d) In the case of a municipal, state, federal, or other public entity by either a principal executive officer, or ranking elected official.