

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)  
FIELD OPERATIONS DIVISION NPDES INDIVIDUAL PERMIT APPLICATION**

**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, RECLAMATION, AND  
ASSOCIATED AREAS**

INSTRUCTIONS: 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 IN INK ONLY. **R# 19-48803**

PURPOSE OF APPLICATION

**# 6,835.00**

- |  |   |
|--|---|
| <input type="checkbox"/> Initial Permit Application for New Facility | <input type="checkbox"/> Initial Permit Application for Existing Facility (e.g. facility permitted less than 5 acres) |
| <input type="checkbox"/> Modification of Existing Permit             | <input checked="" type="checkbox"/> Reissuance of Existing Permit   |
| <input type="checkbox"/> Reissuance & Transfer of Existing Permit    | <input type="checkbox"/> Reissuance & Modification Existing Permit  |
|  | <input type="checkbox"/> Other  |

I. GENERAL INFORMATION

**RECEIVED**

NPDES Permit Number (Not applicable if initial permit application): <b>AL0078867</b>	County(s) in which Facility is Located: <b>DeKalb</b>	<b>AUG 01 2019</b>
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Company/Permittee Name <b>Justice Coal of Alabama, LLC</b>	Facility Name (e.g. Mine Name, Pit Name, etc.): <b>Poore Mine</b>	<b>STORM WATER MANAGEMENT BRANCH</b>
Mailing Address of Company/Permittee: <b>P.O. Box 2178</b>	Physical Address of Facility (as near as possible to entrance): <b>County Road 167</b>	
City State Zip <b>Beaver WV 25813</b>	City State Zip <b>Ider Alabama 35981</b>	
Permittee Phone Number <b>304.252.1074</b>	Permittee Fax Number <b>N/A</b>	Latitude and Longitude of entrance: <b>N 36°48'46.39"; W 85°35'57.23"</b>

Responsible Official (as described on page 12 of this application) <b>Bill Johnson</b>	Responsible Official Title: <b>Vice President of Engineering</b>	
Mailing Address of Responsible Official: <b>P.O. Box 2178</b>	Physical Address of Responsible Official: <b>925 Dawahare Drive</b>	
City State Zip <b>Beaver WV 25813</b>	City State Zip <b>Hazard Kentucky 41702</b>	
Phone Number of Responsible Official: <b>540.759.4763</b>	Fax Number of Responsible Official <b>N/A</b>	Email Address of Responsible Official: <a href="mailto:bill.johnson@blackstoneenergygroup.com">bill.johnson@blackstoneenergygroup.com</a>

Facility Contact: <b>Terry McKee</b>	Facility Contact Title: <b>Superintendent of Operations</b>	
Physical Address of Facility Contact: <b>225 County Road 152</b>	Phone Number of Facility Contact: <b>256.599.2239</b>	Fax Number of Facility Contact: <b>N/A</b>
City: State: Zip: <b>Section Alabama 35771</b>	Email Address of Facility Contact: <a href="mailto:terry.mckee@southerncoalcorp.com">terry.mckee@southerncoalcorp.com</a>	

II. MEMBER INFORMATION

A. Identify the name, title/position, and unless waived 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 responsible or authority for the facility:

Name	Title/Position	Physical Address of Residence (PO Box Not Acceptable)
<u>James C. Justice, II</u>	<u>President</u>	<u>216 Lake Drive, Daniels, WV 25832</u>
<u>James C. Justice, III</u>	<u>Vice-President</u>	<u>216 Lake Drive, Daniels, WV 25832</u>
<u>Stephen W. Ball</u>	<u>Secretary</u>	<u>216 Lake Drive, Daniels, WV 25832</u>

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
<u>NONE</u>		

III. LEGAL STRUCTURE 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  
 \_\_\_\_\_  
  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 Corporation of Applicant, if any: No Parent and/or Subsidiary Corporation.

D. Land Owner(s): (SEE ATTACHEMENT III-D)

E. Mining Sub-contractor(s)/Operator(s), If known: NONE

IV. COMPLIANCE HISTORY

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

- |   | Yes                      | No                                  |  | Yes                      | No                                  |
|---|--------------------------|-------------------------------------|--|--------------------------|-------------------------------------|
| (1) an Alabama NPDES-SID-UIC permit suspended or terminated?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> |  |                          |                                     |
| (2) an Alabama license to mine suspended or revoked?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> |  |                          |                                     |
| (3) an Alabama or federal mining permit suspended or terminated?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> |  |                          |                                     |
| (4) a reclamation bond, or similar security deposited in lieu of a bond, or portion thereof, forfeited?   |                          |                                     |  | <input type="checkbox"/> | <input checked="" 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 of Alabama Department of Environmental Management forfeited? |                          |                                     |  | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
- (If response to any 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 filed by ADEM or EPA during the three year (36 month) 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: (SEE ATTACHEMENT IV-B)

ATTACHMENT III-D

Land Owners			
Map Designation	Surface Owner	Mineral Owner	Fee Ownership
F-1			Geraldine Claridy Ellis
S-1, F-2	Claudine Claridy Kirby		Claudine Claridy Kirby
S-2, F-3	Dean & Linda Ferguson		Dean & Linda Ferguson
M-1		North Alabama Mineral Development Company, LTD	
F-4			Robbie Keith & Felicia Bethune
S-3	B.L. & Claudine Kirby		
F-5			Daniel Shane Hartline
S-4	Dianna L. Bethune		
S-5	Carlton & Donna A. Poore		
S-6	Soyna Tinker &		
	Edward Claude Clemons		
S-7	Melvin Doyce, Jr. &		
	Diane Parish Tinker		
S-8	Eric B. & Vickie L Tripp		
S-9	Sonya & Edward Clemons		
S-10	Victoria B. Carroll		
S-11	Walter Free		
S-12	Mildred Bryant		
S-13	Jerry & Donna Cloud		
S-14	Mishell Burson		
S-15	Gayla Stephens		
S-16	Charles and Melesi Boortz		

**JUSTICE COAL OF ALABAMA, LLC  
NPDES - ADEM VIOLATION HISTORY  
PAST 36 MONTHS**

Mine Name	NPDES#	ASMC Permit #	Date	5 - Day Warning	NOV	Reply/Action Taken
Glade Prep Plant	AL0073962	P-3829	09/12/16		Failure to Sample all Discharge Parameters Chemical Spills/Stains noted at the permit site.	3/31/17 - Submit DMR's electronically  Clean chemical spills denoted by NOV properly dispose of spill materials.
Mine No. 1	AL0073920	P-3822	08/01/17	Fe did not meet effluent standards (Outfall 004)		Non Compliance Report Submitted/ Levels Corrected. The outfall was chemically treated.
Mine No. 2	AL0062693	P-3877	09/09/16 03/29/16		Total Recoverable Arsenic Exceeded Discharge from Outfall 001-1 High Foam Content	7/18/17 - Non Compliance Report Submitted/Levels Corrected 4/1/16 Response - Landowner applied Organic Human Waste Fertilizer
Mine No. 3	AL0078026	P-3889	04/17/19		Failure to submit 6 mos prior to Expiration of Permit	Final ASMC Bond Releases now pending for this mine.
Poore Mine	AL00778867	P-3908	04/17/19 09/12/16		Failure to maintain NPDES Permit Coverage Failure to Sample and Report all Discharge Parameters	ADEM NPDES application has been submitted with this document. *SEE BOTTOM NOTE
Crane-Central	AL0080071	P-3946	05/03/16	Mn did not meet effluent standards. (Outfall 031)		Non Compliance Report Submitted/ Levels Corrected. The outfall was chemically treated.
All Permits	<b>NOTE:</b>	*USEPA Consent Decree (Case 7:16-CV-00462) entered with the Court on December 12, 2016 for failure to sample and report surface and groundwater in various permits as well as other violations resulting in non-compliant discharges to the waters of the State of Alabama. These violations were corrected per the terms of the Consent Decree.				

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 Industrial Relations (ADIR), or other agency, to the applicant, parent corporation, subsidiary, or LLC member for this facility whether presently effective, expired, suspended, revoked, or terminated:

ASMC Permit P-3908, ADEM Permit No. AL0078867, MSHA ID No. 01-03394

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, or ADIR, to the applicant, parent corporation, subsidiary, or LLC member for other facilities whether presently effective, expired, suspended, revoked, or terminated:

(SEE ATTACHMENT V-B)

VI. PROPOSED SCHEDULE

Anticipated Activity Commencement Date: 12/31/2007

Anticipated Activity Completion Date: 1/2022

VII. ACTIVITY DESCRIPTION & INFORMATION

A. Proposed Total Area of the Permitted Site: 551 acres Proposed Total Disturbed Area of the Permitted Site: 551 acres

B. Township(s), Range(s), Section(s) Section 32, T2S, R10E; Section 5, T3S, R10E DeKalb County, Alabama

C. Detailed Directions to Site: From the intersection of AL Highway 75 and DeKalb County Road 167 approximately 3.8 miles north of the community of Cartersville turn left onto DeKalb County Road 167 and travel approximately 0.8 miles to the mine entrance directly across the intersection.

D. Is/will this facility:

- |   | Yes                                 | No                                  |
|---|-------------------------------------|-------------------------------------|
| (1) an existing facility which currently results in discharges to State waters?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| (2) a proposed facility which will result in a discharge to State waters?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (3) be located within any 100-year flood plan?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (4) discharge to municipal Separate Storm Sewer?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (5) discharge to waters of or be located in the Coastal Zone?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (6) need/have ADEM UIC permit coverage?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (7) be located on Indian/historically significant lands?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (8) need/have ADEM SID permit coverage?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (9) need/have ASMC permit coverage?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| (10) need/have ADIR permit coverage?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| (11) generate, treat, store, or dispose of hazardous or toxic waste? If "yes, attach a detailed explanation.            | <input type="checkbox"/>            | <input checked="" 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 checked="" type="checkbox"/> |

VIII. MATERIAL TO BE REMOVED, PROCESSED, OR TRANSLOADED

List relative percentages of 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 Chirt	_____ Sand&/or Gravel	_____ Chalk	_____ Talc	_____ Crushed rock (other)
_____ Bentonite	_____ Industrial Sand	_____ Marble	_____ Shale&/or Common Clay	_____ Sandstone
<u>100%</u> Coal	_____ Kaolin	_____ Coal fines/ refuse recovery	_____ Coal product, coke	_____ Slag, Red Rock
_____ Fire Clay	_____ Iron Ore	_____ Dimension stone	_____ Phosphate rock	_____ Granite
_____ Bauxitric Clay	_____ Bauxitric Ore	_____ Limestone, crushed limestone and dolomite		
_____ Gold, other trace minerals:	_____	_____ Other:	_____	
_____ Other:	_____	_____ Other:	_____	

ATTACHMENT V-B.

MINE NAME	ASMC Permit No.	ADEM/NPDES No.	ADEM MASTER ID	MSHA ID No.
HENAGAR MINE	P-3807	AL0072991	15026	01-03183
MINE No. 1	P-3822	AL0073920	17031	01-03206
MINE No. 2	P-3877	AL0062693	8771	01-02933
MINE No. 3	P-3889	AL0078026	29665	01-03384
CRANE CENTRAL MINE	P-3946	AL0080071	37605	01-03433
GLADE PREP PLANT	P-3829	AL0073962	17166	01-03231

IX. PROPOSED ACTIVITY TO BE CONDUCTED

Type(s) of activity presently conducted at applicant's existing facility or proposed to be conducted at proposed facility (Check all that applies):

<input checked="" 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 checked="" 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 checked="" type="checkbox"/> Mineral dry processing (Crushing & screening)	<input type="checkbox"/> Mineral wet production	
<input type="checkbox"/> Other beneficiation & manufacturing operations		<input checked="" type="checkbox"/> Mineral loading		
<input type="checkbox"/> Construction related temporary borrow pits/areas		<input checked="" type="checkbox"/> Mineral transportation	<input type="checkbox"/> rail <input type="checkbox"/> barge <input checked="" type="checkbox"/> truck	
<input type="checkbox"/> Preparation plant waste recovery		<input type="checkbox"/> Hydraulic mining, dredging, instream or between stream-bank mining		
<input checked="" type="checkbox"/> Grading, clearing, grubbing, etc.		<input type="checkbox"/> Pre-construction ponded water removal	<input checked="" type="checkbox"/> Excavation	
<input checked="" type="checkbox"/> Pre-mining logging or land clearing		<input type="checkbox"/> Waterbody relocation or other alteration	<input type="checkbox"/> Creek/stream crossings	
<input checked="" type="checkbox"/> Onsite construction debris or equipment storage/disposal		<input checked="" type="checkbox"/> Onsite mining debris or equipment storage/disposal		
<input checked="" type="checkbox"/> Reclamation of disturbed areas		<input type="checkbox"/> Chemical 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 (Describe): _____				

Primary SIC Code 1221 Description Bituminous Surface Coal Mining  
 Secondary SIC Code N/A Description N/A  
 Narrative Description of the activity: Surface Coal Mining, Coal Loading & Transportation, Mine Reclamation Operations.

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>
<u>20,000</u> gallons	<u>Diesel Fuel</u>	<u>500</u> gallons	<u>Hydraulic Oil</u>	<u>100</u> gallons	<u>Motor Oil</u>
_____ gallons	_____	_____ gallons	_____	_____ gallons	_____

C. If "yes", a detailed SPCC Plan with acceptable format/content, including diagrams, must be attached to application according to 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 Data Sheets (MSDS) for chemical 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 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 a 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: 6/25/2008

(2) If "No" to Part XI B., provide the anticipated date that the PAP Plan will 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. TOPOGRAPHICAL 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 area
- (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 or equivalent 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 XII (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 permitted name, facility name, and NPDES Number

XV. RECEIVING WATERS

List the requested permit Action for each outfall (issue, reissue, add, move, etc.), Outfall Designation including noting "E" for existing and "P" for proposed, name of receiving water(s), ADEM water use classification (WUC) for the receiving water, latitude and longitude (to seconds) of location(s) that run-off enters the receiving water, 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 discharge to an ADEM listed CWA Section 303(d) waterbody segment at the time of application submittal.

Action	Outfall E/P	Receiving Water	Latitude	Longitude	Dist to Rec. Water	Disturbed Acres	Drainage Acres	ADEM WUC	303(d) Segment (Y/N)	TMDL Segment* (Y/N)
<b>(SEE PAGE 5(a).)</b>										

\* 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), method 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 request compliance schedule.





XVI. DISCHARGE CHARACTERIZATION

A. Modified EPA Form 2C Submittal

Yes, pursuant to 40 CFR 122.21, the applicant requests a waiver for completion of 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 or stored onsite.

No, the applicant does not request a waiver and a complete and correct EPA form 2C and/or 2D is attached. **(SEE PAGE 6(a).)**

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 BOD<sub>5</sub>, Total Suspended Solids, Total Iron, Total Manganese, Total Aluminum (if bauxite or bauxite clay (if bauxite and bauxitic clay:

Outfall E/P	Information Source - # of Samples	Flow cfs	Flow gpd	Frequency hours/day	Frequency days/mnth	Sum/Win Temp, °C	pH s.u.	BOD <sub>5</sub> lbs/day	TSS lbs/day	Tot Fe lbs/day	Tot Mn lbs/day	Tot Al lbs/day
<b>(SEE PAGE 6(b).)</b>												

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 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	Ni lbs/day	Zn lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
<b>(SEE PAGE 6(c).)</b>											

**COAL MINING AND/OR PREPARATION PLANT APPLICATION METALS, CYANIDE AND TOTAL PHENOLS OUTFALL DATA**

NPDES # AL0078867		Applicant Alabama Carbon, LLC				Facility Poore Mine, P-3908									
Outfall #003		Date Sampled 05-09-19				Substantially identical Outfalls AL0078867 Poore Mine-001,002,004,005,006,007,008,009,010,011, and 012									
Please supply the following information separately for every P outfall evaluated or E outfall tested. If necessary, attach extra sheets. If you are a coal facility mark "X" in appropriate column for ALL listed metals, cyanides, and total phenols. If the outfall is existing, you must provide the results of at least one analysis for that pollutant. If the outfall is proposed you must either submit at least one representative analysis for a substantially identical existing outfall at the facility, or if not available, at least one representative analysis for a substantially identical outfall at another similar facility.															
POLLUTANT AND CAS # (if available)1/	MARK "X"			MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE (if available)		LONG TERM AVG. VALUE (if available)		EFFLUENT					
	TESTING REQUIRED EXISTING OUTFALL	BELIEVED PRESENT PROPOSED OUTFALL	BELIEVED ABSENT PROPOSED OUTFALL	CONC. (µg/L)	MASS (lbs)	CONC. (µg/L)	MASS (lbs)	CONC. (µg/L)	MASS (lbs)	# Of Analyses	Frequency of Discharges Days/Month Hours/Day	40 CFR Part 136 EPA Approved Method Analysis Used	Method Detection Limit (µg/L)	Receiving Water 7-Q10 Flow (CFS)	2/Optional Instream Hardness (mg/L CaCO3)
1M.Antimony,Total (7440-36-0)	X			BRL	N/A					1	Precipitation	E200.8	0.684	0.0002	
2M.Arsenic,Total (7440-38-2)	X			BRL	N/A					1	Precipitation	E200.8	0.353	0.0002	
3M.Beryllium, Total (7440-41-7)	X			0.288	2.4x10-7					1	Precipitation	E200.8	0.113	0.0002	
4M.Cadmium,Total (7440-43-9)	X			0.0415	3.0x10-8					1	Precipitation	E200.8	0.0247	0.0002	
5M.Chromium,Total (7440-47-3)	X			BRL	N/A					1	Precipitation	E200.8	0.304	0.0002	
6M.Copper,Total (7440-50-8)	X			0.522	4.4x10-7					1	Precipitation	E200.8	0.261	0.0002	
7M.Lead,Total (7439-92-1)	X			BRL	N/A					1	Precipitation	E200.8	0.334	0.0002	
8M.Mercury,Total (7439-97-6)	X			BRL	N/A					1	Precipitation	E245.2	0.010	0.0002	
9M.Nickel,Total (7440-02-0)	X			17.9	1.4x10-5					1	Precipitation	E200.8	0.129	0.0002	
10M.Selenium,Total (7782-49-2)	X			BRL	N/A					1	Precipitation	E200.8	0.232	0.0002	
11M.Silver, Total (7440-22-4)	X			BRL	N/A					1	Precipitation	E200.8	0.0132	0.0002	
12M.Thallium,Total (7440-28-0)	X			BRL	N/A					1	Precipitation	E200.8	0.120	0.0002	
13M.Zinc,Total (7440-66-6)	X			10.1	8.4x10-6					1	Precipitation	E200.8	2.89	0.0002	
14M.Cyanide,Total (57-12-5)	X			BRL	N/A					1	Precipitation	4500CNE	3.00	0.0002	
15M.Phenols,Total	X			57.0	4.7x10-5					1	Precipitation	E420.1	16.0	0.0002	

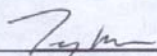
By submission of this form, I/We, certify that I/We have read the instructions for completion of EPA Forms 2C and 2D. Attach additional information as needed. BRL=Not Detected at MDL BDL=Below Detection Limit

1/ For the purpose of demonstration of compliance with these parameters, "Total" and "Total Recoverable" measurements shall be considered equivalent.  
 2/ Instream Hardness (CaCO3) will be assumed to be 50 mg/L if Instream Hardness data is not submitted.  
 Rev 6/20/07 Sampling results must be representative of the discharge and test methods used in accordance with 40 CFR Part 136 and 40 CFR 122.21(a)(7)(i).

Southeast Environmental Management / Waypoint Analytical / McGehee Engineering  
 Name of Permittee and/or Company(s) Collecting Samples and Performing Analyses

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

Terry Mckee, Director of Operations  
 Name & Title of Responsible Official

  
 Signature  
 5-24-19  
 Date

**COAL MINING AND/OR PREPARATION PLANT APPLICATION METALS, CYANIDE AND TOTAL PHENOLS OUTFALL DATA**

NPDES # AL0078867		Applicant Alabama Carbon, LLC				Facility Poore Mine, P-3908									
Outfall Miller Creek		Date Sampled 05-09-19				Substantially Identical Outfalls									
Please supply the following information separately for every P outfall evaluated or E outfall tested. If necessary, attach extra sheets. If you are a coal facility mark "X" in appropriate column for ALL listed metals, cyanides, and total phenols. If the outfall is existing, you must provide the results of at least one analysis for that pollutant. If the outfall is proposed you must either submit at least one representative analysis for a substantially identical existing outfall at the facility, or if not available, at least one representative analysis for a substantially identical outfall at another similar facility.															
POLLUTANT AND CAS # (if available)/	TESTING REQUIRED EXISTING OUTFALL	MARK "X" BELIEVED PRESENT PROPOSED OUTFALL	BELIEVED ABSENT PROPOSED OUTFALL	MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE (if available)		LONG TERM AVG. VALUE (if available)		# OF Analyses	EFFLUENT Frequency of Discharges Days/Month Hours/Day	40 CFR Part 136 EPA Approved Method Analysis Used	Method Detection Limit (µg/L)	Receiving Water 7-Q10 Flow (CFS)	2/Optional Instream Hardness (mg/L CaCO3)
				CONC. (µg/L)	MASS (lbs)	CONC. (µg/L)	MASS (lbs)	CONC. (µg/L)	MASS (lbs)						
1M.Antimony, Total (7440-36-0)	X			BRL	N/A					1	Precipitation	E200.8	0.684	0.005	
2M.Arsenic, Total (7440-38-2)	X			BRL	N/A					1	Precipitation	E200.8	0.353	0.005	
3M.Beryllium, Total (7440-41-7)	X			BRL	N/A					1	Precipitation	E200.8	0.113	0.005	
4M.Cadmium, Total (7440-43-9)	X			BRL	N/A					1	Precipitation	E200.8	0.0247	0.005	
5M.Chromium, Total (7440-47-3)	X			BRL	N/A					1	Precipitation	E200.8	0.304	0.005	
6M.Copper, Total (7440-50-8)	X			0.697	1.7x10 <sup>-5</sup>					1	Precipitation	E200.8	0.261	0.005	
7M.Lead, Total (7439-92-1)	X			BRL	N/A					1	Precipitation	E200.8	0.334	0.005	
8M.Mercury, Total (7439-97-6)	X			BRL	N/A					1	Precipitation	E245.2	0.010	0.005	
9M.Nickel, Total (7440-02-0)	X			1.45	3.6x10 <sup>-5</sup>					1	Precipitation	E200.8	0.129	0.005	
10M.Selenium, Total (7782-49-2)	X			BRL	N/A					1	Precipitation	E200.8	0.232	0.005	
11M.Silver, Total (7440-22-4)	X			BRL	N/A					1	Precipitation	E200.8	0.0132	0.005	
12M.Thallium, Total (7440-28-0)	X			BRL	N/A					1	Precipitation	E200.8	0.120	0.005	
13M.Zinc, Total (7440-66-6)	X			BRL	N/A					1	Precipitation	E200.8	2.89	0.005	
14M.Cyanide, Total (57-12-5)	X			BRL	N/A					1	Precipitation	4500CNE	3.00	0.005	
15M.Phenols, Total	X			22.0	5.5x10 <sup>-4</sup>					1	Precipitation	E420.1	16.0	0.005	

By submission of this form, I/We, certify that I/We have read the instructions for completion of EPA Forms 2C and 2D. Attach additional information as needed.

BRL=Not Detected at MDL

BDL=Below Detection Limit

1/ For the purpose of demonstration of compliance with these parameters, "Total" and "Total Recoverable" measurements shall be considered equivalent.

2/ Instream Hardness (CaCO3) will be assumed to be 50 mg/L if Instream Hardness data is not submitted.

Rev 6/20/07 Sampling results must be representative of the discharge and test methods used in accordance with 40 CFR Part 136 and 40 CFR 122.21(a)(7)(i).

**Southeast Environmental Management / Waypoint Analytical / McGehee Engineering**

Name of Permittee and/or Company(s) Collecting Samples and Performing Analyses

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

Terry Mckee, Director of Operations  
Name & Title of Responsible Official

*Terry Mckee*  
Signature

5-24-19  
Date





XVII. DISCHARGE STRUCTURE DESCRIPTION AND 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 must be completely described.

Outfall	Discharge Structure Description	Description of Origin Of Pollutants	Surface Discharge	Groundwater Discharge	Wet Prep - Other Prod Plant	Pumped or Controlled Discharge	Low Volume STP	Other
<b>(SEE PAGE 7(a).)</b>								

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, (10) Other: \_\_\_\_\_.





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 a part of the permit application review process, the Department is required to determine, 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 water are located.

YES New/increased discharges of pollutant(s) or discharge locations to Tier 2 waters are proposed. Complete items 1 - 6 below.

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

B. If "Yes", complete Items 1 through 6 of this part (XVIII.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 Forms can be found on the Department's website [www.adem.alabama.gov/DeptForms](http://www.adem.alabama.gov/DeptForms). **Attach additional sheets/documentation supporting information as needed.**

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

**Construction of proposed outfall facilities will not correct any existing environmental or public health problems.**

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

**At full production discharger will employ 30 workers and will utilize numerous contractors to perform support services.**

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

**No reduction in employment. It will be creating new jobs when production at this site has been re-established.**

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

**The discharger projects yearly coal production of 384,000 tons and estimates the following taxes; Personal Property Tax \$59,840, Corporate State Income Tax \$749,000, State Withholding Tax \$62,205, Business Privilege Tax \$5,000, Severance Tax \$128,640, Fuel Tax \$104,230 and Sales Tax on Supplies \$90,000.**

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

**Discharger will hire new employees from community and will construct water treatment facilities that will improve environmental and water quality at the proposed site and will improve water quality at the existing site.**

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

**Provide jobs for residents of the community to reduce unemployment in the area. The additional employees will increase the local tax revenue which will help improve the quality of life of the area residents and the whole community. Final land reclamation will improve the vegetation and water quality in the immediate areas of the reclaimed mine.**

Pursuant to ADEM Admin. Code Chapter 335-6-10, an evaluation of the discharge alternatives identified below has been completed and the following conclusions, as indicated, were reached. All proposed new or expanded discharges of pollutant(s) covered by the individual NPDES permitting program are subject to the provisions of the antidegradation policy. As part of the permit application review process, the Department is required to determine, based on the applicant's demonstration, that 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. As a part of this demonstration, a registered professional engineer (PE) licensed to practice in the State of Alabama must complete an evaluation of the discharge alternatives, to include calculation of total annualized project costs (Item XVI) for each technically feasible alternative. Technically feasible alternatives with total annualized pollution control project costs that are less than 110% of the preferred alternative total annualized pollution control project costs for the Tier 2 new or increased discharge proposal are considered viable alternatives. **Support documentation is attached, referenced, or otherwise handled as appropriate.**

Alternative	Viable	Non-Viable	Reason/Rationale For Indicating Non-Viable
1) Treatment/Discharge Proposed In This Application	X		
2) Land Application		X	Water quantity too great
3) Pretreatment/Discharge to POTW By SID Permit		X	Water quantity too great
4) Relocation of Discharge		X	Topography does not support
5) Reuse/Recycle - Pollution Prevention		X	No use for recycled water
6) Other Process/Treatment Alternative		X	Surface water discharge-best alternative
7) Underground Injection By UIC Permit		X	Topography/Geology does not support
8) Other Projects Specific Alternative (s) Identified By the Applicant Or The ADEM		N/A	
9) Other Projects Specific Alternative (s) Identified By the Applicant Or The ADEM		N/A	

COMMENTS:

XVIII. CALCULATION OF TOTAL ANNUALIZED PROJECT COSTS FOR PRIVATE SECTOR PROJECTS - ADEM Form 313 3/02  
(ADEM form 312 3/02 - Public Sector Project is available upon request)

This item must be completed for each technically feasible alternative evaluated in Item XV. **Copy, complete, and attach additional blocks/sheets and supporting information as needed.**

Capital Costs of pollution control project to be expended or financed by applicant (Supplied by applicant)	\$	<u>750,000</u>	(1)
Interest Rate for Financing (Expressed as a decimal)		<u>Not financed</u>	(i)
Time Period of Financing (Assume 10 years *)		<u>10 years</u>	(n)
Annualization Factor ** = $\frac{i}{(1+i)^{10} - 1} + i$		<u>N/A</u>	(2)
Annualized Capital Cost [Calculate: (1) x (2) ]	\$	<u>75,000</u>	(3)
Annual Cost of Operation & Maintenance ( including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration & replacement) ***	\$	<u>50,000</u>	(4)
<b>Total Annual Cost of Pollution Control Project [ (3) + (4) ]</b>	\$	<u>125,000</u>	(5)

\* While actual payback schedules may differ across projects and companies, assume equal annual payments over a 10 - year period for consistency in comparing projects.

\*\* Or refer to Appendix B ( application information ) for calculated annualization factors.

\*\*\* For recurring costs that occur less frequently than once a year, pro rate the cost over the relevant number of years ( e.g., for pumps replaced once every three years, include one-third of the cost in each year).

XIX: POLLUTION ABATEMENT PLAN (PAP) - APPENDIX A & B INFORMATION

**Outfall(s): 001P, 002E, 003E, 004P through 012P**

Y	N	N/A	
X			Runoff from all areas of disturbance is controlled
X			Drainage from pit area, stockpiles, and spoil areas directed to a sedimentation pond
	X1		Sedimentation basin at least 0.25 acre/feet for every acre of disturbed drainage
X			Sedimentation basin cleaned out when sediment accumulation is 60% of design capacity
X			Trees, boulders, and other obstructions removed from pond during initial construction
X			Width of top of dam greater than 12'
X			Side slopes of dam no steeper than 3:1
X			Cutoff trench at least 8' wide
X			Side slopes of cutoff trench no less than 1:1
X			Cutoff trench located along the centerline of the dam
X			Cutoff trench extends at least 2' into bedrock or impervious soil
X			Cutoff trench filled with impervious material
X			Embankments and cutoff trench 95% compaction standard proctor ASTM
X			Embankment free of roots, tree debris, stones >6" diameter, etc.
X			Embankment constructed in lifts no greater than 12"
X			Spillpipe sized to carry peak flow from a one year storm event
X			Spillpipe will not chemically react with effluent
X			Subsurface withdrawal
	X2		Anti-seep collars extend radially at least 2' from each joint in spillpipe
X			Splashpad at the end of the spillpipe
X			Emergency Spillway sized for peak flow from 25-yr 24-hr event if discharge not into PWS classified stream
	X3		Emergency Spillway sized for peak flow from 50-yr 24-hr event if discharge is into PWS classified stream
X			Emergency overflow at least 20' long
X			Side slopes of emergency spillway no steeper than 2:1
X			Emergency spillway lined with riprap or concrete
X			Minimum of 1.5' of freeboard between normal overflow and emergency overflow
X			Minimum of 1.5' of freeboard between max. design flow of emergency spillway and top of dam
X			All emergency overflows are sized to handle entire drainage area for ponds in series
X			Dam stabilized with permanent vegetation
X			Sustained grade of haul road <10%
X			Maximum grade of haul road <15% for no more than 300'
X			Outer slopes of haul road no steeper than 2:1
X			Outer slopes of haul road vegetated or otherwise stabilized
	X4		Detail drawings supplied for all stream crossings
	X5		Short-Term Stabilization/Grading And Temporary Vegetative Cover Plans
	X6		Long-Term Stabilization/Grading And Permanent Reclamation or Water Quality Remediation Plans

**X**

The applicant has completed the surface water discharge alternatives analysis and has supporting documentation, including annualized costs for each technically feasible alternative available for review upon request

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

<b>X1 - Basins designed to ASMC Criteria</b>
<b>X2 - Basins designed to ASMC Criteria</b>
<b>X3 - No Discharge into PWS Classified Stream</b>
<b>X4 - No Stream Crossing Proposed</b>
<b>X5 - Submitted in ASMC Reclamation Plans</b>
<b>X6 - Submitted in ASMC Reclamation Plans</b>

XX. POLLUTION ABATEMENT PLAN (PAP) REVIEW CHECKLIST

Y	N	N/A
X		
X		
X		

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

**General Information:**

X		
X		
X		
X		
X		

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

**Topographic Map:**

X		
	X1	
X		
X		
X		

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

**1"-500' or Equivalent Facility Map:**

X		
X		
X		
X		

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

**Detailed Design Diagrams:**

X		
X		
X		

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

**Narrative of Operations:**

X		
X		
X		

Raw Materials Defined  
 Processes Defined  
 Products Defined

**Schematic Diagram:**

X		
X		
X		

Points of Waste Origin  
 Collection System  
 Disposal System

**Post Treatment Quantity and Quality of Effluent:**

X		
X		
X		
X		

Flow  
 Suspended Solids  
 Iron Concentration  
 pH

**Description of Waste Treatment Facility:**

X		
X		
X		
X		

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

**Other:**

X		
X		
X		
X		
X		
	X2	

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

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

X1 - No Preparation Plant at Site.
X2 - No alternate standards, designs or plans are proposed.

**Contact the Department prior to submittal with any questions or to request acceptable alternative content/format. Be advised that you are not authorized to commence regulated activity until application can be processed, publically noticed, and approved 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) C and/or 2D are required to be submitted unless the applicant is eligible for and the Department grants a waiver .

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 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 Industrial Relations (ADIR) 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. Send the completed form, supporting documentation, and the appropriate fees 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.state.al.us](mailto:h2omail@adem.state.al.us)  
[www.adem.alabama.gov](http://www.adem.alabama.gov)

XXII. PROFESSIONAL ENGINEER (PE) CERTIFICATION

A detailed, comprehensive Pollution Abatement/Prevention Plan (PAP) must be prepared, signed, and certified by a professional engineer (PE), registered in the State of Alabama 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 as 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 & non structural 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 P.O. Box 660548, Birmingham, Alabama 35266-0548 PE Registration #12739  
 Name and Title (type or print) Jerry W. Williams, PE Phone Number (205) 978-5070  
 Signature *Jerry W. Williams* Date Signed 07-02-2019



XXIII. RESPONSIBLE OFFICIAL SIGNATURE\*

This application must be signed by a Responsible Official of the applicant pursuant to ADEM Admin. Code Rule 335-6-.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 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 limitation 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) Bill Johnson Official Title Vice-President Engineering  
 Signature Bill Johnson Date Signed 7/17/2019

Digitally signed by Bill Johnson  
 DN: cn=Bill Johnson, o, ou,  
 email=bill.johnson@justicecorporation.com, c=US  
 Date: 2019.07.17 08:56:43 -0400

- \* 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 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 case of a partnership, by a general partner
    - (c) In case of a sole proprietorship, by the proprietor; or
    - (d) In case of a municipal, state, federal, or other public entity by either a principal executive officer, or ranking elected official.

**SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN**

Prepared for:

Alabama Department of Environmental Management

JUSTICE COAL OF ALABAMA, LLC

POORE MINE

NPDES Permit Application

Prepared By:

TASK Engineering Management Inc.  
P.O. Box 660548  
Birmingham, Alabama 35266  
205-978-5070  
Email [jw-task@charter.net](mailto:jw-task@charter.net)

**SPILL PREVENTION CONTROL AND COUNTERMEASURES PLAN**

**Justice Coal of Alabama, LLC.  
Poore Mine  
T2S, R10E, Section 32  
T3S, R10E, Section 5  
DeKalb County, Alabama\***

**\*As found on the Flat Rock and Trenton USGS Quadrangle Maps**

**Facility Telephone Number:**

Office Phone Number                    304-252-1074  
Superintendent Cell                    256-599-2239  
E-mail:                                    terry.mckee@southerncoalcorp.com

**Facility Contact and Address:**

Terry McKee, Superintendent of Operations,  
Justice Coal of Alabama, LLC.  
225 County Road 152  
Section, Alabama 35771

1. This facility has never experienced a spill from any fuel or other chemical storage tanks.
2. The containment structures will be located in an area that is not subject to periodic flooding at this highest elevation available.
3. This plan provides for the containment of the following:

<u>No. Of Tanks</u>	<u>Total Capacity</u>	<u>Material</u>
2	10,000 Gal	Diesel Fuel
5	250 Gal	Hydraulic Oil (Double Wall)
20	55 Gal	Motor Oil (Gallon Containers)

The area around the tanks is enclosed by a dike which exceeds the volume capacity of the largest tank in the bermed area by 10%.

4. The nearest surface water of the State is Miller Creek and Unnamed Tributaries of Miller Creek.



5. The dikes are constructed of impervious material around the tank area. There is a 2" minimum pipe with a manual gate valve, which allows rainwater discharge when it is required. The valve is to remain closed at all times and is to be locked until the diked area collects enough rainwater to require draining. After an inspection of the water to determine that no pollutants are present, the valve will be opened to allow the proper drainage, and then will be immediately closed and re-locked. The containment system is located such that rainwater released through normal de-watering drains to a permitted treatment structure (Sediment Basin 003E). If pollutants (oil) are present in the rainwater, the pollutants will be removed from the water prior to drainage operations. Pollutants will be disposed of in accordance with existing State and Federal regulations. In addition, a log will be maintained which indicates the date when the containment structure was de-watered, the person conducting the de-watering, and a brief description of the water (i.e., oily sheen, clear, slightly turbid, oily smell, etc.).
6. If a spill should occur, the usable fuel oil within the diked area shall immediately be pumped into tanker trucks for transporting to another storage tank. Oil absorbent material will be kept available to contain any spills. The usable fuel oil and the contaminated soil in the area will be excavated and disposed of in accordance with existing State and Federal Regulations.
7. A written record shall be maintained by the General Mine Superintendent of any spill which occurs, and the actions taken to properly dispose of all spilled material and the cleanup procedures.
8. All unloading of transport vehicles to fill the tanks will meet minimum requirements and regulations established by the Department of Transportation. The tanks will be attended while filling to prevent overflow, and to note visible leaks from seams, gaskets, valves, etc. The General Superintendent of the facility will make periodic inspections of the unloading area to detect signs of minor spills. If spills are evident the contaminated soil will be disposed of in accordance with existing State and Federal regulations. If the spills continue, a paved unloading ramp equipped with an oil-water separator will be constructed.
9. All personnel who are in any way connected with unloading transport vehicles, use of fuel oil, maintenance of the facility, or responsible for storm water drainage and spill cleanup will be made familiar with this plan, and a copy of this plan will be posted and readily available to all personnel at the facility.

#### Potential Sources of Spills:

A) Tank Valve Rupture:

Prevention - Properly maintain tanks and keep them in good condition.  
visually inspect tanks periodically for leaks, and tank  
foundations for cracks and unusual settling.

B) Tank Overfill:

Prevention - Truck drivers should follow correct operating procedures when unloading diesel fuel and stay with equipment at all times during unloading operations. Key personnel should know that the truck is in the mine area unloading fuel.

C) Hose Rupture During Unloading and Spillage From Hoses After Disconnection:

Prevention - Periodic inspection of transport unloading hoses, the replacement of hoses as necessary, and use of the proper hose drainage procedure.

10. In The Event of An Oil Spill Call:

The National Response Center: 1-800-424-8802

The Alabama Emergency Management Agency: 1-800-843-0699

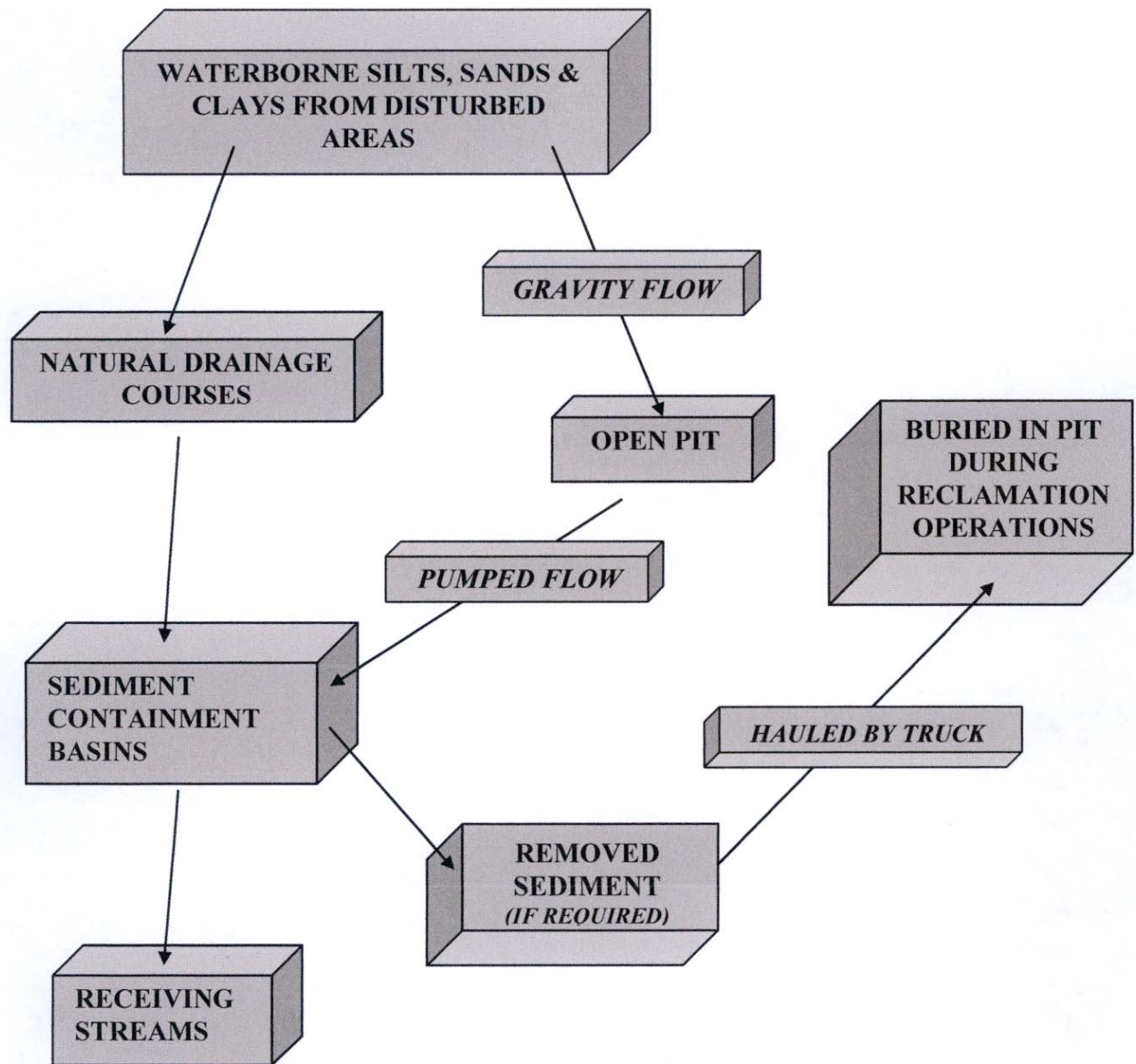
The Alabama Department of Environmental Management 1-334-271-7700

Report the Following Information:

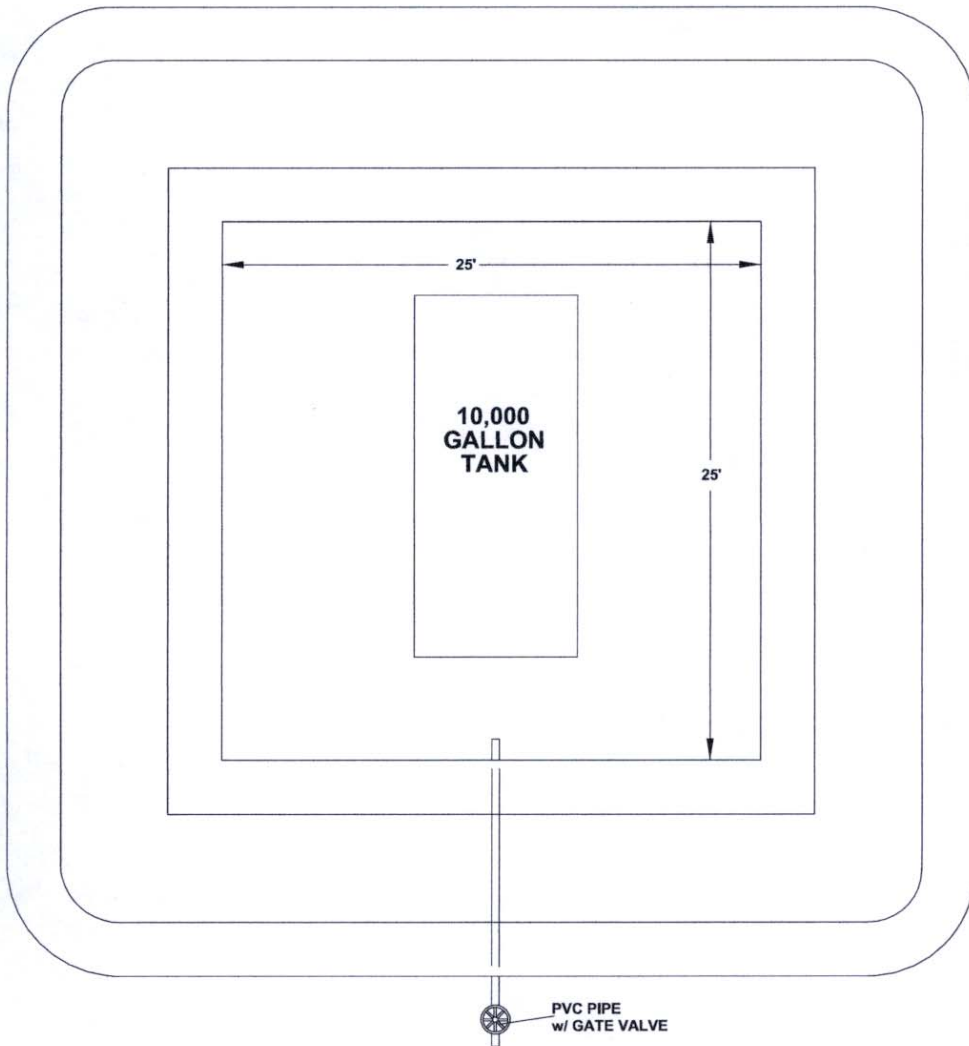
- 1) Name, address, and telephone number of person reporting spill.
- 2) Exact location of facility and spill.
- 3) Company name and NPDES permit number.
- 4) Material spilled.
- 5) Estimated quantity.
- 6) Source of spill.
- 7) Cause of spill.
- 8) Nearest down-stream body of water to receive spill.
- 9) Discuss/advise regarding actions to take for containment and clean up.

11. The coal stockpile area and equipment area at the mine site will be kept gated and locked to prevent vandalism or theft whenever management personnel of Justice Coal of Alabama, LLC. are not present.

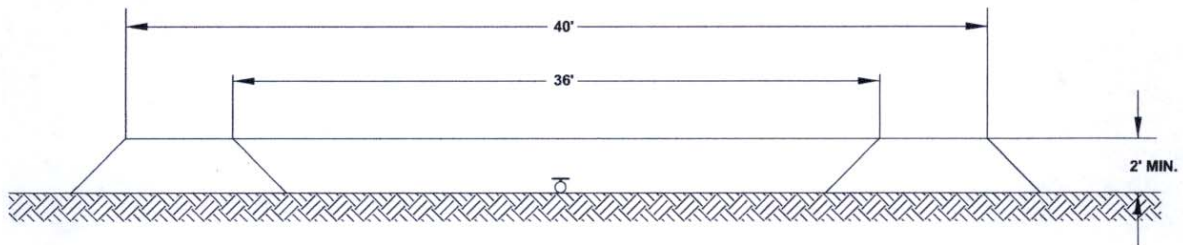
All key personnel will be fully trained in all aspects of this plan, the proper use of personal protective gear, and all reporting and record keeping procedures. All non-key personnel will be made familiar with the plan and will be instructed on personal safety.



**SCHEMATIC DIAGRAM  
OF  
WASTE CYCLE**



PLAN VIEW



ELEVATION VIEW

SHEET

SCALE

TITLE

1 OF 2

NONE

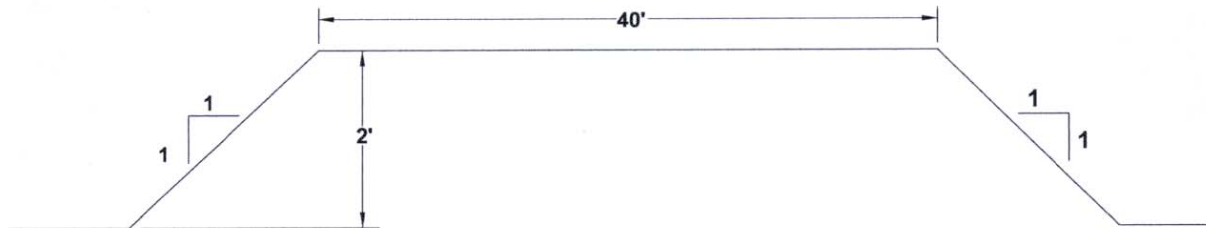
SPILL PREVENTION PLAN  
TYPICAL CONTAINMENT BERM DETAIL

**TASK EMI**  
CONSULTING ENGINEERS

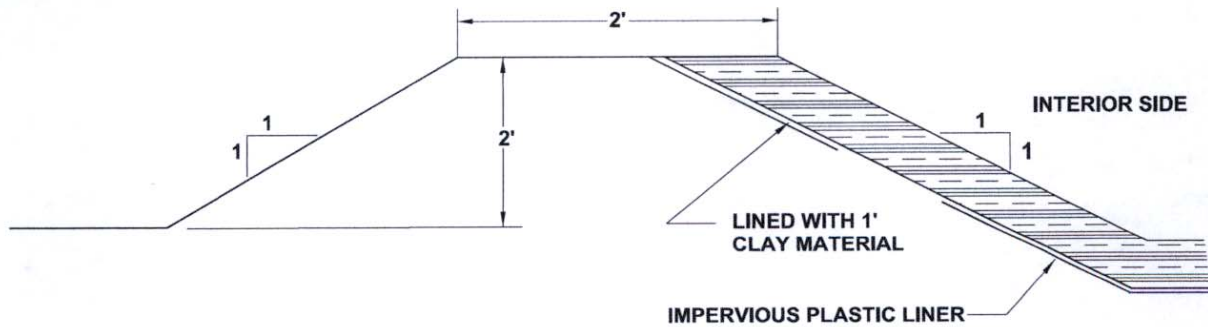
P.O. BOX 660548  
BIRMINGHAM, ALABAMA 35266  
(205) 978-5070 FAX (205) 874-6184

**BERM DESIGN  
TYPICAL SECTIONS**

**FRONT VIEW**

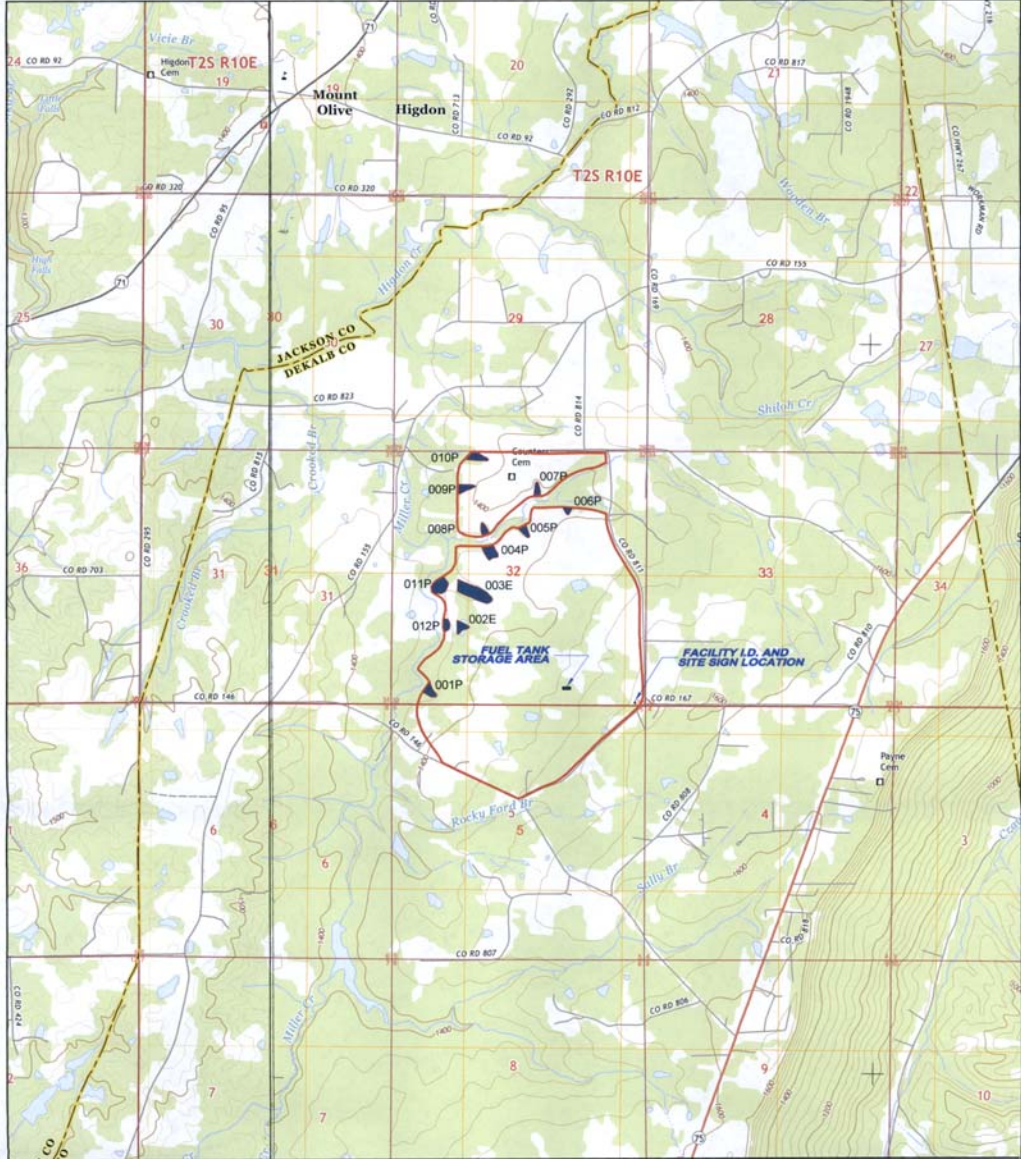


**SIDE VIEW**



NOT TO SCALE

SHEET	SCALE	TITLE	 P. O. BOX 660548 BIRMINGHAM, ALABAMA 35266 (205) 978-5070 FAX (205)874-6184
2 OF 2	NONE	<p align="center"><b>SPILL PREVENTION PLAN TYPICAL CONTAINMENT BERM SECTION</b></p>	





NPDES PERMIT #AL0078867  
 RENEWAL SUBMITTED 05-13-2019  
 STATUS - RENEWAL PENDING

**NPDES PERMIT MAP**  
 SECTION 32, TOWNSHIP 2 SOUTH, RANGE 10 EAST  
 SECTION 5, TOWNSHIP 3 SOUTH, RANGE 10 EAST,  
 DEKALB COUNTY, ALABAMA



BASE MAP: FLATROCK & TRENTON USGS QUADS.

 PERMIT BOUNDARY  
 SEDIMENT BASIN / OUTFALL

SHEET  
**1 OF 1**

SCALE  
**1" = 2000'**

CLIENT / MINE  
**JUSTICE COAL OF ALABAMA, LLC**  
**POORE MINE**

**TASK EMI**  
**CONSULTING ENGINEERS**  
 P.O. BOX 660548  
 BIRMINGHAM, ALABAMA 35266  
 (205) 978-6070



**MAP LEGEND**

- PERMIT BOUNDARY
- PREVIOUSLY DISTURBED AREA
- SURFACE OWNERSHIP DIVIDE OTHER THAN QUARTER/QUARTER LINE
- MINERAL OWNERSHIP DIVIDE OTHER THAN QUARTER/QUARTER LINE
- LAND HOOK
- (S-1) SURFACE OWNERSHIP
- (M-1) MINERAL OWNERSHIP
- (F-1) FEE OWNERSHIP (SURFACE & MINERAL)
- 10% EXISTING HIGHWALL
- 23% RECLAIMED HIGHWALL
- SLOPE MEASUREMENT
- PUBLIC ROAD
- STATE HIGHWAY SYSTEM
- COUNTY HIGHWAY SYSTEM
- ROAD ROW
- ROAD SETBACK
- PRIVATE ROAD
- PRIMARY HAULROAD
- ANCILLARY ROAD
- PROJECTED FAULT LINE
- PERENNIAL AND/OR INTERMITTENT STREAM
- 100' STREAM BUFFER ZONE BOUNDARY
- DRAINAGE COURSE
- DRAINAGE DIVIDE
- POWER TRANSMISSION LINE
- POWER TRANSMISSION RIGHT OF WAY
- BOTTOM OF COAL ELEVATION CONTOUR
- COAL STOCKPILE
- SEDIMENT BASIN/OUTFALL
- IMPOUNDED WATER
- OCCUPIED DWELLING
- OUTBUILDING, BARN, SHED, ETC.
- CEMETERY
- EXPLORATION DRILL HOLE
- COAL SEAM OUTCROP POINT
- RECLAMATION CROSS SECTION/FENCE DIAGRAM DESIGNATION
- STREAM WATER SITE
- MW-01 MONITORING WELL
- DIVERSION DITCH
- SILT FENCE
- DRAINAGE DIVERSION BERM W/SILT FENCE

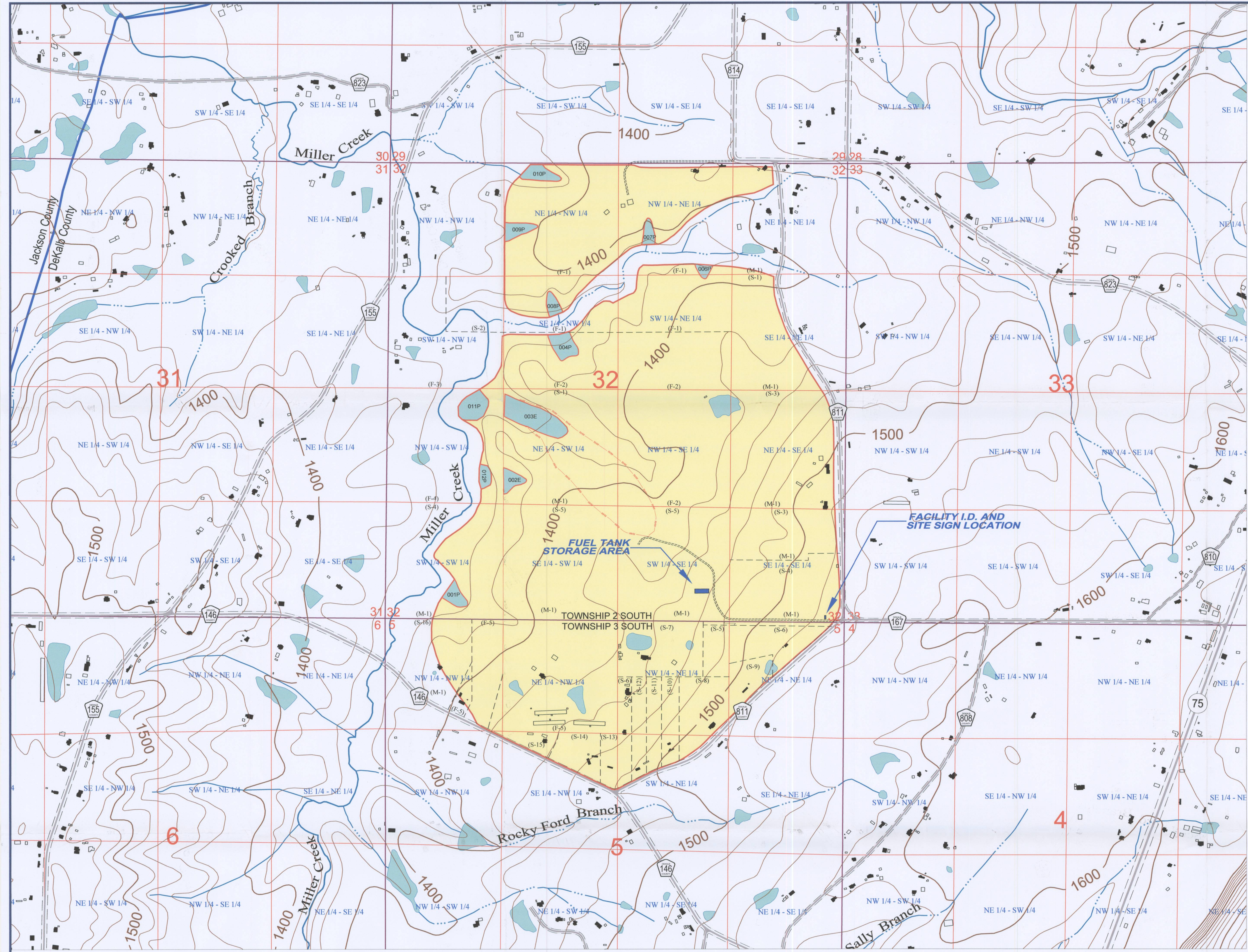
**NOTES:**

NO BUILDINGS WITHIN 1,000' OF PERMIT AREA OTHER THAN SHOWN.  
 A TOPSOIL VARIANCE HAS BEEN REQUESTED, HOWEVER IF REQUIRED, TOPSOIL STOCKPILE WILL BE UTILIZED. CRUST, SURFACE AND MINERAL OWNERSHIP BY INDICATED BY FORTY EXCEPT WHERE NOTED OTHERWISE.  
 LOCATIONS OF PROPOSED TOPSOIL AND COAL STOCKPILES ARE SUBJECT TO CHANGE DURING OPERATIONS.  
 COAL STOCKPILES MAY BE UTILIZED ONCE WITH APPROPRIATE CONTROLS. HOWEVER, COAL MAY BE LOADED DIRECTLY INTO TRUCKS FROM PIT AREAS AND TRANSPORTED TO PURCHASER.  
 ALL 100' SETBACKS ALONG ROADS WILL BE OBSERVED UNLESS NECESSARY APPROVALS ARE OBTAINED FROM REGULATORY AGENCIES TO DISTURB WITHIN SAID SETBACKS.  
 100' SETBACKS OF PERENNIAL STREAMS WILL BE OBSERVED. NO STREAMS WITHIN THE PROPOSED PERMIT QUALIFY AS PERENNIAL OR INTERMITTENT STREAMS. ALL HAVING DRAINAGE AREAS LESS THAN 640 ACRES.  
 THE AREA OF THIS PROPOSED PERMIT IS NOT LOCATED WITHIN THE BOUNDARY OF A MUNICIPALITY OR POLICE JURISDICTION.

NPDES PERMIT #AL0078867  
 RENEWAL SUBMITTED TO ADEM 05-13-2019  
 STATUS - RENEWAL PENDING



SECTION 32, TOWNSHIP 2 SOUTH, RANGE 10 EAST  
 SECTION 5, TOWNSHIP 3 SOUTH, RANGE 10 EAST,  
 ALL IN DEKALB COUNTY, ALABAMA.  
 BASE MAPS: FLAT ROCK AND TRENTON USGS QUADS



**PROPOSED SEDIMENT BASIN DATA**

Basin	Drainage Acres	Disturbed Acres
001P	118	35
002E	33	33
003E	237	153
004P	24	24
005P	28	28
006P	51	51
007P	22	22
008P	13	13
009P	13	13
010P	28	28
011P	239	155
012P	47	47
TOTALS	853	602

**OWNERSHIP LEGEND**

- SURFACE OWNERSHIP**
- (S-1) CLAUDINE CLARIDY KIRBY
  - (S-2) DEAN & LINDA FERGUSON
  - (S-3) B.L. & CLAUDINE KIRBY
  - (S-4) DIANNA L. BETHUNE
  - (S-5) CARLON & DONNA A. POORE
  - (S-6) SOYNA TINKER & EDWARD CLAUDE CLEMONS
  - (S-7) MELVIN DOYCE, JR. & DIANE PARISH TINKER
  - (S-8) ERIC B. & VICKIE L. TRIPP
  - (S-9) SONYA & VICKIE L. TRIPP
  - (S-10) VICTORIA B. CARROLL
  - (S-11) WALTER FREE
  - (S-12) MILDRED BRYANT
  - (S-13) JERRY & DONNA CLOUD
  - (S-14) MISHELL BURSON
  - (S-15) GAYLA STEPHENS
  - (S-16) CHARLES & MELESI BOORTZ
- FEE OWNERSHIP**
- (F-1) GERALDINE CLARIDY ELLIS
  - (F-2) CLAUDINE CLARIDY KIRBY
  - (F-3) DEAN & LINDA FERGUSON
  - (F-4) ROBBIE KITHI & FELICIA BETHUNE
  - (F-5) DANIEL SHANE HARTLINE
- MINERAL OWNERSHIP**
- (M-1) NORTH ALABAMA MINERAL DEVELOPMENT COMPANY, LTD

NPDES PERMIT BOUNDARY

**JUSTICE COAL OF ALABAMA, LLC.**

POORE MINE  
 ADEM NPDES PERMIT NO. AL0078867

NPDES PERMIT & VICINITY MAP

FILE: JCA-001	SCALE: 1" = 500'	JOB NO: M-007
APPROVED BY: JWW	DATE: 07-01-19	SHEET: 1 OF 1

### ASMC Quarterly Hydrologic Monitoring Report Supplemental Data for Streams & Wells

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 1<sup>st</sup> Quarter 2016

Date of Report: April 11, 2016  
 Prepared By: Bradley Morrison

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Fe(Iron) (Total) (mg/l)	Mn (Total) (mg/l)	TSS (mg/l)	Spc umhos /cm	Sulfate (mg/L)	Depth (feet & tenths)
01-06-16		002	Basin	N/D								
01-06-16	01-12-16	003	Basin	0.10	0.15	6.0	0.286	0.697	<2	75.7	37.8	
01-20-16		002	Basin	N/D								
01-20-16	01-27-16	003	Basin	0.005	0.007	6.2	0.625	1.03	3	94.5	36.3	
02-06-16		002	Basin	N/D								
02-06-16	02-10-16	003	Basin	0.009	0.01	6.4	0.244	0.564	<2	68.1	20.5	
02-20-16		002	Basin	N/D								
02-20-16	02-24-16	003	Basin	0.04	0.06	6.2	0.302	0.602	3	68.7	29.1	
03-08-16		002	Basin	N/D								
03-08-16	03-11-16	003	Basin	0.008	0.01	6.1	0.295	0.775	<2	76.5	30.9	
03-22-16		002	Basin	N/D								
03-22-16	03-24-16	003	Basin	0.004	0.006	6.2	0.598	1.18	<2	109.8	0.572	
02-17-16	02-23-16	SW1	Stream	3.48	5.38	6.4	0.264	0.061	6	69.1		
02-17-16	02-23-16	SW2	Stream	2.84	4.39	6.6	0.365	0.076	4	55.5		
02-25-16	03-02-16	MW1	Well			4.7	12.80	5.71		335		45.2
02-25-16	03-02-16	MW2	Well			6.2	2.37	0.277		47.8		36.5
02-25-16	03-02-16	MW3	Well			5.7	4.08	1.21		149.1		36.4
02-25-16	03-02-16	MW5	Well			5.1	0.050	0.020		38.2		26.4

Approved By: \_\_\_\_\_ PG#26

Professional Geologist

Southeast Environmental Management

Page 1 of 2

RECEIVED

APR 26 2019

STORM WATER  
MANAGEMENT BRANCH







**ASMC Quarterly Hydrologic Monitoring Report  
Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 2nd Quarter 2016

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: , 2016  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Fe(Iron) (Total) (mg/l)	Mn (Total) (mg/l)	TSS (mg/l)	Spc umhos /cm	Sulfate (mg/L)	Depth (feet & tenths)
04-09-16		002	Basin	N/D								
04-09-16	04-12-16	003	Basin	0.007	0.01	6.9	0.434	1.19	<2	83.5	17	
04-23-16		002	Basin	N/D								
04-23-16		003	Basin	0.004	0.006	6.1				74.2		
		002	Basin									
		003	Basin									
		002	Basin									
		003	Basin									
		002	Basin									
		003	Basin									
		002	Basin									
		003	Basin									
		SW1	Stream									
		SW2	Stream									
		MW1	Well									
		MW2	Well									
		MW3	Well									
		MW5	Well									

Approved By: \_\_\_\_\_ PG#26  
 Professional Geologist

**ASMC Quarterly Hydrologic Monitoring Report  
Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 3<sup>rd</sup> Quarter 2017

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: October 6, 2017  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/L.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Diss. Cu ug/L	Diss. TI ug/L	Diss. Ni ug/L	Diss. Zn ug/L	Total Mercury ug/L	TDS mg/L	Tox. Pass(0) Fail(1)
07-12-17		002	Basin	N/D									
07-12-17	07-17-17	003	Basin	0.01	0.02	6.5	1.06	0.033	23.1	19.4	<0.010		
07-26-17		002	Basin	N/D									
07-26-17	07-28-17	003	Basin	0.002	0.003							62	
09-22-17		002	Basin	N/D									
09-22-17	09-26-17	003	Basin	0.002	0.003	6.1	0.983	0.050	33.8	29.3	<0.010		
08-01-17	08-02-17	003	Basin										0

Approved By: \_\_\_\_\_ PG#26  
 Professional Geologist

**ASMC Quarterly Hydrologic Monitoring Report  
Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 3<sup>rd</sup> Quarter 2017

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: October 6, 2017  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (Iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Fe(Iron) (Total) (mg/l)	Mn (Total) (mg/l)	TSS (mg/l)	Spc umhos /cm	Sulfate (mg/L)	Depth (feet & tenths)
07-12-17		002	Basin	N/D								
07-12-17	07-17-17	003	Basin	0.01	0.02	6.5	0.042	0.911	<2	77.2	33.3	
07-26-17		002	Basin	N/D								
07-26-17	07-28-17	003	Basin	0.002	0.003	6.2	0.134	1.39	<2	103.9	42.7	
08-10-17		002	Basin	N/D								
08-10-17		003	Basin	N/D								
08-24-17		002	Basin	N/D								
08-24-17		003	Basin	N/D								
09-08-17		002	Basin	N/D								
09-08-17		003	Basin	N/D								
09-22-17		002	Basin	N/D								
09-22-17	09-26-17	003	Basin	0.002	0.003	6.1	0.049	1.55	<2	142.8	69.9	
09-28-17	10-02-17	SW1	Stream	0.14	0.21	6.1	0.873	0.212	<2	68.1		
09-28-17	10-02-17	SW2	Stream	0.09	0.14	6.4	0.589	0.156	<2	57.3		
09-28-17	10-02-17	MW1	Well			4.4	11.60	8.77		380		40.3
09-28-17	10-02-17	MW2	Well			6.0	0.202	0.034		51.2		27.9
09-28-17	10-02-17	MW3	Well			5.5	0.033	0.007		39.1		38.8
09-28-17	10-02-17	MW5	Well			5.0	0.042	0.012		28.3		22.4

Approved By: \_\_\_\_\_ PG#26  
 Professional Geologist

**ASMC Quarterly Hydrologic Monitoring Report  
Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 4<sup>th</sup> Quarter 2017

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: January 15, 2018  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Diss. Cu ug/L	Diss. TI ug/L	Diss. Ni ug/L	Diss. Zn ug/L	Total Mercury ug/L	TDS mg/L	Tox. Pass(0) Fail(1)
10-20-17		002	Basin	N/D									
10-20-17	10-25-17	003	Basin	0.001	0.002	6.3	0.382	<0.016	0.676	2.17	<0.010		
11-03-17		002	Basin	N/D									
11-03-17	11-07-17	003	Basin	0.005	0.008	6.2	1.11	0.033	23.8	21.2	<0.010		
11-17-17	11-24-17	003	Basin	0.003	0.004							66	
12-01-17		002	Basin	N/D									
12-01-17	12-08-17	003	Basin	0.001	0.002	6.0	0.723	0.163	33.5	26.8	<0.010		
11-28-17	11-29-17	003	Basin										0

Approved By: \_\_\_\_\_ PG#26  
 Professional Geologist

**ASMC Quarterly Hydrologic Monitoring Report**  
**Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 4<sup>th</sup> Quarter 2017

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: January 15, 2018  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Fe(Iron) (Total) (mg/l)	Mn (Total) (mg/l)	TSS (mg/l)	Spc umhos /cm	Sulfate (mg/L)	Depth (feet & tenths)
10-06-17		002	Basin	N/D								
10-06-17		003	Basin	N/D								
10-20-17		002	Basin	N/D								
10-20-17	10-25-17	003	Basin	0.001	0.002	6.3	0.068	0.062	<2	111.9	3.94	
11-03-17		002	Basin	N/D								
11-03-17	11-07-17	003	Basin	0.005	0.008	6.2	0.167	0.980	<2	99.8	50.3	
11-17-17		002	Basin	N/D								
11-17-17	11-20-17	003	Basin	0.003	0.004	6.1	0.381	0.999	2	117.8	64.1	
12-01-17		002	Basin	N/D								
12-01-17	12-08-17	003	Basin	0.001	0.002	6.0	1.160	1.330	17	125.5	48	
12-15-17		002	Basin	N/D								
12-15-17	12-20-17	003	Basin	0.001	0.002	6.3	0.407	1.500	<2	111.5	90.2	
12-26-17	12-29-17	SW1	Stream	0.31	0.48	6.3	0.360	0.074	<2	71.1		
12-26-17	12-29-17	SW2	Stream	0.22	0.34	6.5	0.248	0.055	<2	60.3		
12-29-17	01-11-18	MW1	Well			4.2	0.162	0.027		388		39.4
12-29-17	01-11-18	MW2	Well			6.2	0.147	0.023		56		26.7
12-29-17	01-11-18	MW3	Well			5.2	<0.033	0.008		62.1		38.1
12-29-17	01-11-18	MW5	Well			5.4	<0.033	0.007		32.3		4.2

Approved By: \_\_\_\_\_ PG#26  
 Professional Geologist

**ASMC Quarterly Hydrologic Monitoring Report  
Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 1<sup>st</sup> Quarter 2018

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: April 20, 2018  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Diss. Cu ug/L	Diss. TI ug/L	Diss. Ni ug/L	Diss. Zn ug/L	Total Mercury ug/L	TDS mg/L	Tox. Pass(0) Fail(1)
02-09-18		002	Basin	N/D									
02-09-18	02-14-18	003	Basin	0.006	0.009	6.1	0.645	0.038	19.8	17.0	<0.010		
02-23-18		002	Basin	N/D									
02-23-18	02-27-18	003	Basin									48	
03-09-18		002	Basin	N/D									
03-09-18	03-15-18	003	Basin	0.01	0.02	6.1	0.983	0.038	24.1	22.8	<0.010		
03-05-18	03-06-18	003	Basin										0

Approved By: \_\_\_\_\_ PG#26  
 Professional Geologist  
 Southeast Environmental Management Page 2 of 2



**ASMC Quarterly Hydrologic Monitoring Report  
Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 1<sup>st</sup> Quarter 2018

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: April 20, 2018  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Fe(Iron) (Total) (mg/l)	Mn (Total) (mg/l)	TSS (mg/l)	Spc umhos /cm	Sulfate (mg/L)	Depth (feet & tenths)
01-10-18		002	Basin	N/D								
01-10-18		003	Basin	N/D								
01-26-18		002	Basin	N/D								
01-26-18		003	Basin	N/D								
02-09-18		002	Basin	N/D								
02-09-18	02-14-18	003	Basin	0.006	0.009	6.1	0.158	0.697	<2	82.8	32.3	
02-23-18		002	Basin	N/D								
02-23-18	02-27-18	003	Basin	0.03	0.05	6.3	0.058	0.379	2	71.4	15.0	
03-09-18		002	Basin	N/D								
03-09-18	03-15-18	003	Basin	0.01	0.02	6.1	0.183	0.708	<2	70.2	29.2	
03-24-18		002	Basin	N/D								
03-24-18	03-27-18	003	Basin	0.007	0.01	6.3	0.104	0.819	3	77.1	29.8	
03-27-18	03-30-18	SW1	Stream	0.61	0.94	6.4	0.384	0.098	2	59.3		
03-27-18	03-30-18	SW2	Stream	0.44	0.68	6.5	0.264	0.067	<2	53.6		
03-27-18	04-03-18	MW1	Well			4.5	14.50	7.68		375		45.2
03-27-18	04-03-18	MW2	Well			6.1	1.480	0.084		52.6		35.2
03-27-18	04-03-18	MW3	Well			5.0	1.130	0.065		57.9		35.5
03-27-18	04-03-18	MW5	Well			5.7	0.067	0.011		39.2		27.7

Approved By: \_\_\_\_\_ PG#26  
 Professional Geologist

**ASMC Quarterly Hydrologic Monitoring Report  
Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 2<sup>nd</sup> Quarter 2018

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: July 14, 2018  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Diss. Cu ug/L	Diss. TI ug/L	Diss. Ni ug/L	Diss. Zn ug/L	Total Mercury ug/L	TDS mg/L	Tox. Pass(0) Fail(1)
04-12-18		002	Basin	N/D									
04-12-18	04-18-18	003	Basin	0.003	0.005	6.1	1.72	0.0572	34.3	51.7	<0.010		
05-14-18		002	Basin	N/D									
05-14-18	05-15-18	003	Basin	0.001	0.002	6.2	1.62	<0.046	37.7	30.0	<0.010		
06-12-18		002	Basin	N/D									
06-12-18	06-14-18	003	Basin	0.001	0.002	6.2	0.359	<0.046	29.1	24.1	<0.010		
05-28-18	06-02-18	003	Basin	0.002	0.003	6.5						63.3	
06-11-18	06-12-18	003	Basin										0

Approved By: \_\_\_\_\_ PG#26  
 Professional Geologist

## ASMC Quarterly Hydrologic Monitoring Report Supplemental Data for Streams & Wells

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 2<sup>nd</sup> Quarter 2018

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: July 14, 2018  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/L.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Fe(Iron) (Total) (mg/l)	Mn (Total) (mg/l)	TSS (mg/l)	Spc umhos /cm	Sulfate (mg/L)	Depth (feet & tenths)
04-12-18		002	Basin	N/D								
04-12-18	04-18-18	003	Basin	0.003	0.005	6.1	0.190	1.05	<2	82.4	51.9	
04-30-18		002	Basin	N/D								
04-30-18	05-02-18	003	Basin	0.005	0.008	6.0	0.342	0.510	2	54.4	23.2	
05-14-18		002	Basin	N/D								
05-14-18	05-15-18	003	Basin	0.001	0.002	6.2	0.016	1.10	<2	62.1	57.1	
05-28-18		002	Basin	N/D								
05-28-18	05-31-18	003	Basin	0.002	0.003	6.5	0.0496	0.869	6	57.4	40.5	
06-12-18		002	Basin	N/D								
06-12-18	06-14-18	003	Basin	0.001	0.002	6.2	0.0769	1.05	2	63.3	44.9	
06-26-18		002	Basin	N/D								
06-26-18	06-29-18	003	Basin	0.002	0.003	6.4	0.203	0.983	2	94.2	34.5	
06-28-18	07-03-18	SW1	Stream	0.26	0.40	6.6	1.010	0.650	2	76.7		
06-28-18	07-05-18	SW2	Stream	0.18	0.27	6.8	0.760	0.454	3	70.4		
06-28-18	07-05-18	MW1	Well			3.5	2.560	6.740		377		46.6
06-28-18	07-05-18	MW2	Well			5.6	4.450	0.404		58.1		34.1
06-28-18	07-05-18	MW3	Well			4.6	3.980	0.349		56.1		34.8
06-28-18	07-05-18	MW5	Well			5.1	0.026	0.020		41.5		28.9

Approved By: \_\_\_\_\_ PG#26

Professional Geologist

**ASMC Quarterly Hydrologic Monitoring Report**  
**Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 3<sup>rd</sup> Quarter 2018

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: October 4, 2018  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Diss. Cu ug/L	Diss. TI ug/L	Diss. Ni ug/L	Diss. Zn ug/L	Total Mercury ug/L	TDS mg/L	Tox. Pass(0) Fail(1)
07-10-18		002	Basin	N/D									
07-10-18	07-13-18	003	Basin	0.003	0.005	6.1	0.975	<0.0463	30.8	24.7	<0.010		
08-07-18		002	Basin	N/D									
08-07-18	08-10-18	003	Basin	0.001	0.002	6.1	0.284	<0.0463	16.2	14.7	<0.010		
08-21-18	08-23-18	003	Basin									102	
07-16-18	07-17-18	003	Basin										0

Approved By: \_\_\_\_\_ PG#26  
 Professional Geologist  
 Southeast Environmental Management Page 2 of 2

**ASMC Quarterly Hydrologic Monitoring Report  
Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 3<sup>rd</sup> Quarter 2018

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: October 4, 2018  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Fe(Iron) (Total) (mg/l)	Mn (Total) (mg/l)	TSS (mg/l)	Spc umhos /cm	Sulfate (mg/L)	Depth (feet & tenths)
07-10-18		002	Basin	N/D								
07-10-18	07-13-18	003	Basin	0.003	0.005	6.1	0.0704	1.370	<2	107.1	49.5	
07-24-18		002	Basin	N/D								
07-24-18	07-26-18	003	Basin	0.001	0.002	6.3	0.0940	1.050	<2	81.9	43.6	
08-07-18		002	Basin	N/D								
08-07-18	08-10-18	003	Basin	0.001	0.002	6.1	0.0331	0.763	<2	59.5	27.1	
08-21-18		002	Basin	N/D								
08-21-18	08-23-18	003	Basin	0.002	0.003	6.4	0.0955	1.610	<2	61.7	54.7	
09-04-18		002	Basin	N/D								
09-04-18		003	Basin	N/D								
09-18-18		002	Basin	N/D								
09-18-18		003	Basin	N/D								
09-24-18	09-27-18	SW1	Stream	0.19	0.29	6.4	2.43	0.982	5	88.2		
09-24-18	09-27-18	SW2	Stream	0.11	0.17	6.8	1.66	0.642	7	70.7		
09-24-18	09-27-18	MW1	Well			4.5	8.93	5.63		281		45.7
09-24-18	09-27-18	MW2	Well			6.0	1.62	0.940		86.4		32.6
09-24-18	09-27-18	MW3	Well			4.2	6.12	0.079		62.4		35.1
09-24-18	09-27-18	MW5	Well			5.2	0.293	2.69		41.1		28.2

Approved By: \_\_\_\_\_ PG#26  
 Professional Geologist

**ASMC Quarterly Hydrologic Monitoring Report**  
**Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 4th Quarter 2018

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: January 12, 2019  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (Iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Diss. Cu ug/L	Diss. TI ug/L	Diss. Ni ug/L	Diss. Zn ug/L	Total Mercury ug/L	TDS mg/L	Tox. Pass(0) Fail(1)
11-07-18		002	Basin	N/D									
11-07-18	11-13-18	003	Basin	0.006	0.009	6.3	2.44	<0.120	25.2	17.2	<0.010		
12-07-18		002	Basin	N/D									
12-07-18	12-12-18	003	Basin	0.007	0.01	6.1	1.31	<0.120	34.7	26.8	<0.010	102	
12-10-18	12-11-18	003	Basin										0

Approved By: \_\_\_\_\_ PG#26  
 Professional Geologist  
 Southeast Environmental Management Page 2 of 2

## ASMC Quarterly Hydrologic Monitoring Report Supplemental Data for Streams & Wells

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 4th Quarter 2018

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: January 12, 2019  
 Prepared By: Bradley Morrison

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Fe(Iron) (Total) (mg/l)	Mn (Total) (mg/l)	TSS (mg/l)	Spc umhos /cm	Sulfate (mg/L)	Depth (feet & tenths)
10-08-18		002	Basin	N/D								
10-08-18		003	Basin	N/D								
10-23-18		002	Basin	N/D								
10-23-18		003	Basin	N/D								
11-07-18		002	Basin	N/D								
11-07-18	11-13-18	003	Basin	0.006	0.009	6.3	0.127	1.230	<2	62.5	51.7	
11-21-18		002	Basin	N/D								
11-21-18	11-27-18	003	Basin	0.003	0.005	6.3	0.0889	0.560	<2	64.1	33.4	
12-07-18		002	Basin	N/D								
12-07-18	12-12-18	003	Basin	0.007	0.01	6.1	0.158	1.040	<2	114.6	55.8	
12-22-18		002	Basin	N/D								
12-22-18	12-27-18	003	Basin	0.009	0.01	6.3	0.0696	0.252	<2	109.4	15.2	
11-19-18	11-26-18	SW1	Stream	0.45	0.69	6.5	0.278	0.0743	<2	64		
11-19-18	11-26-18	SW2	Stream	0.31	0.48	6.8	0.163	0.0460	<2	52		
11-19-18	11-27-18	MW1	Well			4.5	7.140	5.570		290		44.8
11-19-18	11-27-18	MW2	Well			6.0	2.860	0.454		61		32.5
11-19-18	11-27-18	MW3	Well			5.1	6.230	3.720		80.9		34.1
11-19-18	11-27-18	MW5	Well			5.3	0.0281	0.0185		35.7		27.3

Approved By: \_\_\_\_\_ PG#26

Professional Geologist

**COAL MINING AND/OR PREPARATION PLANT APPLICATION METALS, CYANIDE AND TOTAL PHENOLS OUTFALL DATA**

PDES # AL0078867      Applicant Alabama Carbon, LLC      Facility Poore Mine, P-3908  
 outfall Miller Creek      Date Sampled 05-31-13      Substantially Identical Outfalls

Please supply the following information separately for every P outfall evaluated or E outfall tested. If necessary, attach extra sheets. If you are a coal facility mark "X" in appropriate column for ALL listed metals, cyanides, and total phenols. If the outfall is existing, you must provide the results of at least one analysis for that pollutant. If the outfall is proposed you must either submit at least one representative analysis for a substantially identical existing outfall at the facility, or not available, at least one representative analysis for a substantially identical outfall at another similar facility.

POLLUTANT AND CAS (if available)1/	MARK "X"			EFFLUENT											
	TESTING REQUIRED EXISTING OUTFALL	BELIEVED PRESENT PROPOSED OUTFALL	BELIEVED ABSENT PROPOSED OUTFALL	MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE (if available)		LONG TERM AVG. VALUE (if available)		# Of Analyses	Frequency of Discharges Days/Month Hours/Day	40 CFR Part 136 EPA Approved Method Analysis Used	Method Detection Limit (µg/L)	Receiving Water 7-Q10 Flow (CFS)	2/Optional Instream Hardness (mg/L CaCO3)
				CONC. (µg/L)	MASS (lbs)	CONC. (µg/L)	MASS (lbs)	CONC. (µg/L)	MASS (lbs)						
A.Antimony, Total 440-36-0)	X			0.160	4.0X10-6					1	Precipitation	E200.8	0.0437	0.005	
A.Arsenic, Total 440-39-2)	X			0.251	6.2X10-6					1	Precipitation	E200.8	0.228	0.005	
A.Beryllium, Total 440-41-7)	X			BRL	N/A					1	Precipitation	E200.8	0.181	0.005	
A.Cadmium, Total 440-43-9)	X			0.0192	4.8X10-7					1	Precipitation	E200.8	0.0132	0.005	
A.Chromium, Total 440-47-3)	X			0.118	2.9X10-6					1	Precipitation	E200.8	0.115	0.005	
A.Copper, Total 440-50-8)	X			BRL	N/A					1	Precipitation	E200.8	1.24	0.005	
A.Lead, Total 440-59-1)	X			0.253	6.3X10-6					1	Precipitation	E200.8	0.134	0.005	
A.Mercury, Total 440-59-6)	X			BRL	N/A					1	Precipitation	E245.1	0.04	0.005	
A.Nickel, Total 440-62-0)	X			1.46	3.6X10-5					1	Precipitation	E200.8	0.111	0.005	
M.Selenium, Total 782-49-2)	X			BRL	N/A					1	Precipitation	E200.8	0.302	0.005	
M.Silver, Total 440-22-4)	X			BRL	N/A					1	Precipitation	E200.8	0.0654	0.005	
M.Thallium, Total 440-28-0)	X			BRL	N/A					1	Precipitation	E200.8	0.0537	0.005	
M.Zinc, Total 440-66-6)	X			5.89	1.4X10-4					1	Precipitation	E200.8	2.97	0.005	
M.Cyanide, Total 7-12-5)	X			BRL	N/A					1	Precipitation	SM4500	1.30	0.005	
M.Phenols, Total	X			BRL	N/A					1	Precipitation	E420.1	18.2	0.005	

\*submission of this form, I/We, certify that I/We have read the instructions for completion of EPA Forms 2C and 2D. Attach additional information as needed.      BRL=Not Detected at MDL      BDL=Below Detection Limit

For the purpose of demonstration of compliance with these parameters, "Total" and "Total Recoverable" measurements shall be considered equivalent. Instream Hardness (CaCO3) will be assumed to be 50 mg/L if Instream Hardness data is not submitted.

6/20/07 Sampling results must be representative of the discharge and test methods used in accordance with 40 CFR Part 136 and 40 CFR 122.21(g)(7)(i).

**Southeast Environmental Management**

Name of Permittee and/or Company(s) Collecting Samples and Performing Analyses

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

Steve Ball, Vice-President

Name & Title of Responsible Official

Signature

Date



**COAL MINING AND/OR PREPARATION PLANT APPLICATION METALS, CYANIDE AND TOTAL PHENOLS OUTFALL DATA**

IES # **AL0078867** Applicant **Alabama Carbon, LLC** Facility **Poore Mine, P-3908**  
 Outfall # **003** Date Sampled **09-30-13** Substantially Identical Outfalls **AL0078867 Poore Mine-001,002,004,005,006,007,008,009,010,011, and 012**

Please supply the following information separately for every P outfall evaluated or E outfall tested. If necessary, attach extra sheets. If you are a coal facility mark "X" in appropriate column for ALL listed metals, cyanides, and total phenols. If an outfall is existing, you must provide the results of at least one analysis for that pollutant. If the outfall is proposed you must either submit at least one representative analysis for a substantially identical existing outfall at the facility, or available, at least one representative analysis for a substantially identical outfall at another similar facility.

UTAHN AND CAS (available)1/	MARK "X"			EFFLUENT											
	TESTING REQUIRED EXISTING OUTFALL	BELIEVED PRESENT PROPOSED OUTFALL	BELIEVED ABSENT PROPOSED OUTFALL	MAXIMUM DAILY VALUE		MAXIMUM 30 DAY VALUE (if available)		LONG TERM AVG. VALUE (if available)		# Of Analyses	Frequency of Discharges Days/Month Hours/Day	40 CFR Part 136 EPA Approved Method Analysis Used	Method Detection Limit (µg/L)	Receiving Water 7-Q10 Flow (CFS)	2/Optional Instream Hardness (mg/L CaCO3)
				CONC. (µg/L)	MASS (lbs)	CONC. (µg/L)	MASS (lbs)	CONC. (µg/L)	MASS (lbs)						
Antimony, Total (1-36-0)	X			0.0909	7.5x10-8					1	Precipitation	E200.8	0.0437	0.0001	
Arsenic, Total (0-39-2)	X			0.268	2.2x10-7					1	Precipitation	E200.8	0.228	0.0001	
Beryllium, Total (1-41-7)	X			1.93	1.6x10-6					1	Precipitation	E200.8	0.181	0.0001	
Cadmium, Total (1-43-9)	X			0.232	1.7x10-7					1	Precipitation	E200.8	0.0132	0.0001	
Chromium, Total (1-47-3)	X			0.981	8.1x10-7					1	Precipitation	E200.8	0.115	0.0001	
Copper, Total (1-50-8)	X			7.92	6.6x10-6					1	Precipitation	E200.8	1.24	0.0001	
Lead, Total (1-92-1)	X			1.88	1.5x10-6					1	Precipitation	E200.8	0.194	0.0001	
Mercury, Total (1-97-6)	X			BRL	N/A					1	Precipitation	E245.1	0.04	0.0001	
Nickel, Total (1-02-0)	X			90.1	7.5x10-5					1	Precipitation	E200.8	0.111	0.0001	
Selenium, Total (1-49-2)	X			0.433	3.6x10-7					1	Precipitation	E200.8	0.302	0.0001	
Silver, Total (1-22-4)	X			BRL	N/A					1	Precipitation	E200.8	0.0654	0.0001	
Thallium, Total (1-28-0)	X			0.186	1.5x10-7					1	Precipitation	E200.8	0.0537	0.0001	
Zinc, Total (1-65-6)	X			169	1.4x10-4					1	Precipitation	E200.8	2.97	0.0001	
Cyanide, Total (2-5)	X			BRL	N/A					1	Precipitation	SM4500	1.30	0.0001	
Phenols, Total	X			BRL	N/A					1	Precipitation	E420.1	18.2	0.0001	

omission of this form, I/We, certify that I/We have read the instructions for completion of EPA Forms 2C and 2D. Attach additional information as needed. BRL=Not Detected at MDL BDL=Below Detection Limit

the purpose of demonstration of compliance with these parameters, "Total" and "Total Recoverable" measurements shall be considered equivalent. Instream Hardness (CaCO3) will be assumed to be 50 mg/L if Instream Hardness data is not submitted.

1/20/07 Sampling results must be representative of the discharge and test methods used in accordance with 40 CFR Part 136 and 40 CFR 122.21(g)(7)(i).

**east Environmental Management / Alabama Carbon**

o of Permittee and/or Company(s) Collecting Samples and Performing Analyses

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

Steve Ball, Vice-President

Signature & Title of Responsible Official

Signature

Date

FROM: Alabama Carbon, LLC  
P.O. Box 2178  
Beaver, WV 25813  
304-252-1074

TO: ADEM  
NPDES Environmental Branch  
Water Division  
P.O. Box 301463  
Montgomery, AL 36130-1463

DATE: July 26, 2017

RE: Discharge Monitoring Reports,  
Toxicity Reports, 2nd Quarter 2017

Enclosed please find Discharge Monitoring Reports (DMR's) and  
Toxicity Reports for 2nd quarter 2017 for:

Alabama Carbon, LLC  
P.O. Box 2178  
Beaver, WV 25813

Permits --

AL0062693 P# 3843 Mine No. 1  
AL0062693 P# 3877 Mine No. 2  
AL0078026 P# 3889 Mine No. 3  
AL0078867 P# 3908 Poore Mine

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

If you have any questions please call.

Steve Ball  
Vice-President

FROM: Alabama Carbon, LLC  
442 County Road 464  
Flat Rock, Alabama 35966  
256-599-2239

TO: ADEM  
NPDES Environmental Branch  
Water Division  
P.O. Box 301463  
Montgomery, AL 36130-1463

DATE: April 25, 2017

RE: Discharge Monitoring Reports,  
Toxicity Reports, 1st Quarter 2017

Enclosed please find Discharge Monitoring Reports (DMR's) and  
Toxicity Reports for 1st quarter 2017 for:

Alabama Carbon, LLC  
442 County Road 464  
Flat Rock, Alabama 35966

Permits –

AL0062693 P# 3877 Mine No. 2  
AL0078026 P# 3889 Mine No. 3  
AL0062693 P# 3843 Mine No. 1  
AL0072991 P# 3807 Henager Mine  
AL0078867 P# 3908 Poore Mine

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

If you have any questions please call.

Steve Ball  
Vice-President

**ASMC Quarterly Hydrologic Monitoring Report  
Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
ASMC PERMIT #: P-3908

NPDES PERMIT #: AL0078867  
Mine Name: Poore Mine

N/D = No Discharge

Date of Report: JULY 13, 2017

Prepared By: Joey Rutherford

n/a = Not Applicable

n/r = Not required

Quarter Reported: 2nd Quarter 2017

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Fe(Iron) (Total) (mg/l)	Mn (Total) (mg/l)	TSS (mg/l)	Spc umhos /cm	Sulfate (mg/L)	Depth (feet & tenths)	TDS mg/L
4/13/17	4/13/17	002	Basin	0.00000	0.00000								
4/13/17	4/13/17	003	Basin	0.0072	0.011	7.42	0.24	0.58	14	158	41.30		129
4/27/17	4/27/17	002	Basin	0.07344	0.1122	6.73	0.18	0.48	4	172	31.90		137
4/27/17	4/27/17	003	Basin	0.03168	0.0484	6.89	<0.10	<0.10	8	158	14.20		
5/12/17	5/12/17	002	Basin	0.00000	0.00000								
5/12/17	5/13/17	003	Basin	0.02448	0.0374	6.11	<0.10	1.64	14	167	42.80		136
5/30/17	5/30/17	002	Basin	0.00000	0.00000								
5/30/17	5/31/17	003	Basin	0.02448	0.0374	4.96	0.41	1.92	6	214	68.80		173
5/31/17	6/2/17	003	Basin	0.02592	0.0396	7.00	0.61	0.60	4	122	28.50		99

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	Cu (Dissolved) (µg/l)	Tl (Dissolved) (µg/l)	(Ni) (Dissolved) (µg/l)	Zn (Dissolved) (µg/l)	Hg (Total Recoverable) (µg/l)	Acute Tox Pass (0) / Fail(1)
4/13/17	4/13/17	003	Basin	0.0072	0.011	9.0	<0.10	<1.0	<10.0	0.008	
4/27/17	4/27/17	002	Basin	0.07344	0.1122	<1.0	<0.10	<1.0	<10.0	<0.0018	
5/12/17	5/12/17	002	Basin	0.00000	0.00000						
5/12/17	5/13/17	003	Basin	0.02448	0.0374	2.0	0.40	21	18	<0.0018	1

Approved By: Joey Rutherford

Standard Laboratories, Inc. Jacksboro, TN

**ASMC Quarterly Hydrologic Monitoring Report  
Supplemental Data for Streams & Wells**

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 1ST Quarter 2017

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: April 25, 2017, 2017  
 Prepared By: Joey Rutherford

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Diss. Cu mg/L	Diss. TI mg/L	Diss. Ni mg/L	Diss. Zn mg/L	Total Mercury ug/L	TDS mg/L	Tox. Pass(0) Fail(1)
1/31/17	1/31/17	002	Basin	0.0072	0.011	6.82	<0.001	<0.0001	<0.001	<0.01	<1.8	68	
1/31/17	1/31/17	003	Basin	0.0216	0.033	6.45	<0.001	<0.0001	<0.001	<0.01	<1.8	168	
2/8/17		002	Basin	0.00000	0.00000								
2/8/17	2/8/17	003	Basin	0.02592	0.0396	6.45	<0.001	<0.0001	<0.001	<0.01	<1.8	167	1
3/13/17	3/13/17	002	Basin	0.0072	0.011	6.48	0.001	<0.0001	<0.001	<0.01	<1.8	69	
3/13/17	3/13/17	003	Basin	0.0288	0.044	6.29	<0.001	<0.0001	<0.001	<0.01	<1.8	158	0

Approved By: Joey Rutherford  
 Standard Laboratories, Inc. Jacksboro, TN  
 Page 2 of 2

### ASMC Quarterly Hydrologic Monitoring Report Supplemental Data for Streams & Wells

Company: Alabama Carbon, LLC  
 ASMC PERMIT #: P-3908  
 NPDES PERMIT #: AL0078867  
 Mine Name: Poore Mine  
 Quarter Reported: 1ST Quarter 2017

N/D = No Discharge  
 n/a = Not Applicable  
 n/r = Not required

Date of Report: April 25, 2017  
 Prepared By: Joey Rutherford

Manganese reported only if pH is less than 6.0 s.u. or if Fe (iron) is greater than 10.0 mg/l.

Date Sampled	Date Analyzed	OUTFALL#	SAMPLE TYPE	FLOW (MGD)	FLOW (CFS)	pH (s.u.)	Fe(Iron) (Total) (mg/l)	Mn (Total) (mg/l)	TSS (mg/l)	Spc umhos /cm	Sulfate (mg/L)	Depth (feet & tenths)	TDS mg/L
1/12/2017	1/12/2017	002	Basin	0.00000	0.00000								
1/12/2017	1/13/2017	003	Basin	0.0144	0.022	6.92	0.54	3.09	14	310	72		246
1/27/2017	2/07/2017	003	Basin	0.00144	0.0022			0.21					
1/31/2017	2/1/2017	002	Basin	0.0072	0.011	6.82	<0.10	<0.10	5	82	11.90		68
1/31/2017	2/1/2017	003	Basin	0.0216	0.033	6.45	0.71	1.31	19	208	63.30		168
2/8/17	2/8/17	002	Basin	0.00000	0.00000								
2/8/17	2/8/17	003	Basin	0.02592	0.0396	6.45	0.41	1.02	9	207	55.40		167
2/27/17	2/27/17	002	Basin	0.00000	0.00000								
2/27/17	2/27/17	003	Basin	0.03168	0.0484	7.01	0.20	1.79	21	227	72.10		183
3/13/17	3/13/17	002	Basin	0.0072	0.011	6.48	<0.10	<0.10	4	84	22.30		69
3/13/17	3/13/17	003	Basin	0.0288	0.044	6.29	0.36	1.18	5	195	59		158
3/28/17	3/28/17	002	Basin	0.03312	0.0506	7.45	<0.10	<0.10	10	220	26.70		178
3/28/17	3/28/17	003	Basin	0.072	0.11	6.23	0.34	0.27	9	306	26.70		242
3/28/17	3/28/17	SW1	Stream	0.42011	0.65	5.60	0.20	<0.10	7	54	27.50		
3/28/17	3/28/17	SW2	Stream	0.77558	1.20	5.65	0.21	<0.10	<4	51	<10		
3/28/17	3/28/17	MW1	Well			4.14	10.80	8.44		496	199.50	40.33	
3/28/17	3/28/17	MW2	Well			4.23	9.90	9.37		504	13.60	20	
3/28/17	3/28/17	MW3	Well			5.71	9.20	0.95		152	209.50	33	
3/28/17	3/28/17	MW5	Well			5.43	0.17	<0.10		46	23.80	22	

Approved By: Joey Rutherford  
 Standard Laboratories, Inc. Jacksboro, TN