



Alabama Department of Environmental Management
adem.alabama.gov

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December 14, 2022

Mr. Cyrus Wisner
President/CEO
Southeastern Land Development
1711 Waters Edge Court
Murfreesboro, TN 37130

RE: Draft Permit
Southeastern
NPDES Permit Number AL0084467
Tuscaloosa County (125)

Dear Mr. Wisner:

Transmitted herein is a draft of the above referenced permit. Please review the enclosed draft permit carefully. If previously permitted, the draft may contain additions/revisions to the language in your current permit. Please submit any comments on the draft permit to the Department within 30 days from the date of receipt of this letter.

Since the Department has made a tentative decision to issue the above referenced permit, ADEM Admin. Code r. 335-6-6-.21 requires a public notice of the draft permit followed by a period of at least 30 days for public comment before the permit can be issued. The United States Environmental Protection Agency will also receive the draft permit for review during the 30-day public comment period.

Any mining, processing, construction, land disturbance, or other regulated activity proposed to be authorized by this draft permit is prohibited prior to the effective date of the formal permit. Any mining or processing activity within the drainage basin associated with each permitted outfall which is conducted prior to Departmental receipt of certification from a professional engineer licensed to practice in the State of Alabama, that the Pollution Abatement/Prevention Plan was implemented according to the design plan, or notification from the Alabama Surface Mining Commission that the sediment control structures have been certified, is prohibited.

This permit requires Discharge Monitoring Reports (DMR) to be submitted utilizing the Department's web-based electronic reporting system. Please read Part I.D of the permit carefully and visit <https://aepacs.adem.alabama.gov/nviro/ncore/external/home>.

Should you have any questions concerning this matter, please contact Jasmine White at (334) 270-5622 or jasmine.white@adem.alabama.gov.

Sincerely,

A handwritten signature in blue ink that reads "William D. McClimans".

William D. McClimans, Chief
Mining and Natural Resource Section
Stormwater Management Branch
Water Division

WDM/jlw File: DPER/57900

cc: Jasmine White, ADEM
Environmental Protection Agency Region IV
Alabama Department of Conservation and Natural Resources
U.S. Fish and Wildlife Service
Alabama Historical Commission
Advisory Council on Historic Preservation





NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: Southeastern Land Development, LLC
1711 Waters Edge Court
Murfreesboro, TN 37130

FACILITY LOCATION: Southeastern
21368 Reno Camp Road
McCalla, AL 35111
Tuscaloosa County
T20S, R6W, Sections 25 and 36

PERMIT NUMBER: AL0084467

DSN & RECEIVING STREAM: 001 - 1 Unnamed Tributary to Mud Creek
002 - 1 Unnamed Tributary to Reno Lake

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1388 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-17, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

Alabama Department of Environmental Management

**MINING AND NATURAL RESOURCE SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT**

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PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this Permit and lasting through the expiration date of this Permit, the Permittee is authorized to discharge from each point source identified on Page 1 of this Permit and described more fully in the Permittee's application, if the outfalls have been constructed and certified. Discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Discharge Limitations			Monitoring Requirements	
	Daily Minimum	Monthly Average	Daily Maximum	Sample Type	Measurement Frequency ¹
pH 00400	6.0 s.u.	-----	8.5 s.u.	Grab	2/Month
Solids, Total Suspended 00530	-----	25.0 mg/L	45.0 mg/L	Grab	2/Month
Flow, In Conduit or Thru Treatment Plant ² 50050	-----	Report MGD	Report MGD	Instantaneous	2/Month

B. REQUIREMENTS TO ACTIVATE A PROPOSED MINING OUTFALL

1. Discharge from any point source identified on Page 1 of this Permit which is a proposed outfall is not authorized by this Permit until the outfall has been constructed and certification received by the Department from a professional engineer, registered in the State of Alabama, certifying that such facility has been constructed according to good engineering practices and in accordance with the Pollution Abatement and/or Prevention (PAP) Plan.
2. Certification required by Part I.B.1. shall be submitted on a completed ADEM Form 432. The certification shall include the latitude and longitude of the constructed and certified outfall.
3. Discharge monitoring and Discharge Monitoring Report (DMR) reporting requirements described in Part I.C. of this Permit do not apply to point sources that have not been constructed and certified.
4. Upon submittal of the certification required by Part I.B.1. to the Department, all monitoring and DMR submittal requirements shall apply to the constructed and certified outfall.

C. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Sampling Schedule and Frequency

- a. The Permittee shall collect at least one grab sample of the discharge to surface waters from each constructed and certified point source identified on Page 1 of this Permit and described more fully in the Permittee's application twice per month at a rate of at least every other week if a discharge occurs at any time during the two week period, but need not collect more than two samples per calendar month. Each sample collected shall be analyzed for each parameter specified in Part I.A. of this Permit.

¹ See Part I.C.2. for further measurement frequency requirements.

² Flow must be determined at the time of sample collection by direct measurement, calculation, or other method acceptable to the Department.

- b. If the final effluent is pumped in order to discharge (e.g. from incised ponds, old highwall cuts, old pit areas or depressions, etc.), the Permittee shall collect at least one grab sample of the discharge from each point source identified on Page 1 of this Permit and described more fully in the Permittee's application each quarterly (three month) monitoring period if a discharge occurs at any time during the quarterly monitoring period which results from direct pumped drainage. Each sample collected shall be analyzed for each parameter specified in Part I.A. of this Permit.
- c. The Permittee may increase the frequency of sampling listed in Parts I.C.1.a and I.C.1.b; however, all sampling results must be reported to the Department and included in any calculated results submitted to the Department in accordance with this Permit.

2. Measurement Frequency

Measurement frequency requirements found in Part I.A. shall mean:

- a. A measurement frequency of one day per week shall mean sample collection on any day of discharge which occurs every calendar week.
- b. A measurement frequency of two days per month shall mean sample collection on any day of discharge which occurs every other week, but need not exceed two sample days per month.
- c. A measurement frequency of one day per month shall mean sample collection on any day of discharge which occurs during each calendar month.
- d. A measurement frequency of one day per quarter shall mean sample collection on any day of discharge which occurs during each calendar quarter.
- e. A measurement frequency of one day per six months shall mean sample collection on any day of discharge which occurs during the period of January through June and during the period of July through December.
- f. A measurement frequency of one day per year shall mean sample collection on any day of discharge which occurs during each calendar year.

3. Monitoring Schedule

The Permittee shall conduct the monitoring required by Part I.A. in accordance with the following schedule:

- a. MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY shall be conducted during the first full month following the effective date of coverage under this Permit and every month thereafter. More frequently than monthly and monthly monitoring may be done anytime during the month, unless restricted elsewhere in this Permit, but the results should be reported on the last Discharge Monitoring Report (DMR) due for the quarter (i.e., with the March, June, September, and December DMRs).
- b. QUARTERLY MONITORING shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The Permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this Permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring may be done anytime during the quarter, unless restricted elsewhere in this

Permit, but the results should be reported on the last DMR due for the quarter (i.e., with the March, June, September, and December DMRs).

- c. SEMIANNUAL MONITORING shall be conducted at least once during the period of January through June and at least once during the period of July through December. The Permittee shall conduct the semiannual monitoring during the first complete semiannual calendar period following the effective date of this Permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this Permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e., with the June and December DMRs).
- d. ANNUAL MONITORING shall be conducted at least once during the period of January through December. The Permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this Permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this Permit, but it should be reported on the December DMR.

4. Sampling Location

Unless restricted elsewhere in this Permit, samples collected to comply with the monitoring requirements specified in Part I.A. shall be collected at the nearest accessible location just prior to discharge and after final treatment, or at an alternate location approved in writing by the Department.

5. Representative Sampling

Sample collection and measurement actions taken as required herein shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this Permit.

6. Test Procedures

For the purpose of reporting and compliance, Permittees shall use one of the following procedures:

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136, guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h), and ADEM Standard Operating Procedures. If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this Permit the Permittee shall use the newly approved method.
- b. For pollutant parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the

Department, and may be developed by the Permittee during permit issuance, reissuance, modification, or during compliance schedule.

In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.

- c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit using the most sensitive EPA approved method. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

The Minimum Level utilized for procedures identified in Parts I.C.6.a. and b. shall be reported on the Permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

7. Recording of Results

For each measurement or sample taken pursuant to the requirements of this Permit, the Permittee shall record the following information:

- a. The facility name and location, point source number, date, time, and exact place of sampling or measurements;
- b. The name(s) of person(s) who obtained the samples or measurements;
- c. The dates and times the analyses were performed;
- d. The name(s) of the person(s) who performed the analyses;
- e. The analytical techniques or methods used including source of method and method number; and
- f. The results of all required analyses.

8. Routine Inspection by Permittee

- a. The Permittee shall inspect all point sources identified on Page 1 of this Permit and described more fully in the Permittee's application and all treatment or control facilities or systems used by the Permittee to achieve compliance with the terms and conditions of this Permit at least as often as the applicable sampling frequency specified in Part I.C.1 of this Permit.
- b. If required by the Director, the Permittee shall maintain a written log for each point source identified on Page 1 of this Permit and described more fully in the Permittee's application in which the Permittee shall record the following information:
 - (1) The date and time the point source and any associated treatment or control facilities or systems were inspected by the Permittee;
 - (2) Whether there was a discharge from the point source at the time of inspection by the Permittee;
 - (3) Whether a sample of the discharge from the point source was collected at the time of inspection by the Permittee;

- (4) Whether all associated treatment or control facilities or systems appeared to be in good working order and operating as efficiently as possible, and if not, a description of the problems or deficiencies; and
- (5) The name and signature of the person performing the inspection of the point source and associated treatment or control facilities or systems.

9. Records Retention and Production

- a. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Permit, and records of all data used to complete the above reports or the application for this Permit, for a period of at least three (3) years from the date of the sample collection, measurement, report, or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA, AEMA, and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director, the Permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records should not be submitted unless requested.
- b. All records required to be kept for a period of three (3) years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

10. Monitoring Equipment and Instrumentation

All equipment and instrumentation used to determine compliance with the requirements of this Permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. The Permittee shall develop and maintain quality assurance procedures to ensure proper operation and maintenance of all equipment and instrumentation. The quality assurance procedures shall include the proper use, maintenance, and installation, when appropriate, of monitoring equipment at the plant site.

D. DISCHARGE REPORTING REQUIREMENTS

1. Requirements for Reporting of Monitoring

- a. Monitoring results obtained during the previous three (3) months shall be summarized for each month on a Discharge Monitoring Report (DMR) Form approved by the Department, and submitted to the Department so that it is received by the Director no later than the 28th day of the month following the quarterly reporting period (i.e., on the 28th day of January, April, July, and October of each year).
- b. The Department utilizes a web-based electronic reporting system for submittal of DMRs. **Except as allowed by Part I.D.1.c. or d., the Permittee shall submit all DMRs required by Part I.D.1.a. by utilizing the Department's current electronic reporting system.** The Department's current reporting system, Alabama Environmental Permitting and Compliance System (AEPACS), can be found online at <https://aepacs.adem.alabama.gov/nviro/ncore/external/home>.

- c. If the electronic reporting system is down (i.e. electronic submittal of DMR data is unable to be completed due to technical problems originating with the Department's system; this could include entry/submittal issues with an entire set of DMRs or individual parameters), permittees are not relieved of their obligation to submit DMR data to the Department by the required submittal date. However, if the electronic reporting system is down on the 28th day of the month or is down for an extended period of time as determined by the Department when a DMR is required to be submitted, the facility may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within five calendar days of the electronic reporting system resuming operation, the Permittee shall enter the data into the reporting system unless an alternate timeframe is approved by the Department. An attachment should be included with the electronic DMR submittal verifying the original submittal date (date of the fax, copy of dated e-mail, or hand-delivery stamped date).
- d. The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable. Permittees with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The Permittee shall submit the Department-approved DMR forms to the address listed in Part I.D.1.i.
- e. If the Permittee, using approved analytical methods as specified in Part I.C.6., monitors any discharge from a point source identified on Page 1 of this Permit and describe more fully in the Permittee's application more frequently than required by this Permit; the results of such monitoring shall be included in the calculation and reporting of values on the DMR Form, and the increased frequency shall be indicated on the DMR Form.
- f. In the event no discharge from a point source identified on Page 1 of this Permit and described more fully in the Permittee's application occurs during a monitoring period, the Permittee shall report "No Discharge" for such period on the appropriate DMR Form.
- g. Each DMR Form submitted by the Permittee to the Department in accordance with Part I.D.1. must be legible and bear an original signature or electronic signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this Permit.
- h. All reports and forms required to be submitted by this Permit, the AWPCA, and the Department's rules and regulations, shall be signed by a "responsible official" of the Permittee as defined in ADEM Admin. Code r. 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Admin. Code r. 335-6-6-.09 and shall bear the following certification:

"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."

- i. All DMRs, reports, and forms required to be submitted by this Permit, the AWPCA and the Department's rules and regulations, shall be submitted through the Department's electronic reporting system, AEPACS, or, if in hardcopy, shall be addressed to:

Alabama Department of Environmental Management
Water Division, Mining and Natural Resource Section
Post Office Box 301463
Montgomery, Alabama 36130-1463

Certified and Registered Mail shall be addressed to:

Alabama Department of Environmental Management
Water Division, Mining and Natural Resource Section
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2059

- j. Unless authorized in writing by the Department, approved reporting forms required by this Permit or the Department are not to be altered, and if copied or reproduced, must be consistent in format and identical in content to the ADEM approved form. Unauthorized alteration, falsification, or use of incorrectly reproduced forms constitutes noncompliance with the requirements of this Permit and may significantly delay processing of any request, result in denial of the request, result in permit termination, revocation, suspension, modification, or denial of a permit renewal application, or result in other enforcement action.
- k. If this Permit is a reissuance, then the Permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.D.1.

2. Noncompliance Notification

- a. The Permittee must notify the Department if, for any reason, the Permittee's discharge:
- (1) Potentially threatens human health or welfare;
 - (2) Potentially threatens fish or aquatic life;
 - (3) Causes an in-stream water quality criterion to be exceeded;
 - (4) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. §1317(a);
 - (5) Contains a quantity of a hazardous substance which has been determined may be harmful to the public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. §1321(b)(4); or
 - (6) Exceeds any discharge limitation for an effluent parameter as a result of an unanticipated bypass or upset.

The Permittee shall orally or electronically report any of the above occurrences, describing the circumstances and potential effects of such discharge to the Director within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral or electronic report, the Permittee shall submit to the Director a written report as

provided in Part I.D.2.c., no later than five (5) days after becoming aware of the occurrence of such discharge.

- b. If for any reason, the Permittee's discharge does not comply with any limitation of this Permit, the Permittee shall submit a written report to the Director as provided in Part I.D.2.c. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Part I.D.1. of this Permit after becoming aware of the occurrence of such noncompliance.
- c. Any written report required to be submitted to the Director in accordance with Parts I.D.2.a. and b. shall be submitted using a Noncompliance Notification Form (ADEM Form 421) available on the Department's website (<http://adem.alabama.gov/DeptForms/Form421.pdf>) and include the following information:
 - (1) A description of the discharge and cause of noncompliance;
 - (2) The period of noncompliance, including exact dates and times, or if not corrected, the anticipated time the noncompliance is expected to continue; and
 - (3) A description of the steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence.

3. Reduction, Suspension, or Termination of Monitoring and/or Reporting

- a. The Director may, with respect to any point source identified on Page 1 of this Permit and described more fully in the Permittee's application, authorize the Permittee to reduce, suspend, or terminate the monitoring and/or reporting required by this Permit upon the submission of a written request for such reduction, suspension, or termination by the Permittee provided:
 - (1) All mining, processing, or disturbance in the drainage basin(s) associated with the discharge has ceased and site access is adequately restricted or controlled to preclude unpermitted and unauthorized mining, processing, transportation, or associated operations/activity;
 - (2) Permanent, perennial vegetation has been re-established on all areas mined or disturbed for at least one year since mining has ceased in the drainage basin(s) associated with the surface discharge, or all areas have been permanently graded such that all drainage is directed back into the mined pit to preclude all surface discharges;
 - (3) Unless waived in writing by the Department, the Permittee has been granted, in writing, a 100% Bond Release, if applicable, by the Alabama Department of Industrial Relations and, if applicable, by the Surface Mining Commission for all areas mined or disturbed in the drainage basin(s) associated with the discharge;
 - (4) Unless waived in writing by the Department, the Permittee has submitted inspection reports prepared and certified by a Professional Engineer (PE) registered in the State of Alabama or a qualified professional under the PE's direction which certify that the facility has been fully reclaimed or that water quality remediation has been achieved. The first inspection must be conducted approximately one year prior to and the second inspection must be conducted within thirty days of the Permittee's request for termination of monitoring and reporting requirements;

- (5) All surface effects of the mining activity such as fuel or chemical tanks, preparation plants or equipment, old tools or equipment, junk or debris, etc., must be removed and disposed of according to applicable state and federal regulations;
 - (6) The Permittee's request for termination of monitoring and reporting requirements contained in this Permit has been supported by monitoring data covering a period of at least six consecutive months or such longer period as is necessary to assure that the data reflect discharges occurring during varying seasonal climatological conditions;
 - (7) The Permittee has stated in its request that the samples collected and reported in the monitoring data submitted in support of the Permittee's request for monitoring termination or suspension are representative of the discharge and were collected in accordance with all Permit terms and conditions respecting sampling times (e.g., rainfall events) and methods and were analyzed in accordance with all Permit terms and conditions respecting analytical methods and procedures;
 - (8) The Permittee has certified that during the entire period covered by the monitoring data submitted, no chemical treatment of the discharge was provided;
 - (9) The Permittee's request has included the certification required by Part I.D.1.e. of this Permit; and
 - (10) The Permittee has certified to the Director in writing as part of the request, its compliance with (1) through (9) above.
- b. It remains the responsibility of the Permittee to comply with the monitoring and reporting requirements of this Permit until written authorization to reduce, suspend, or terminate such monitoring and/or reporting is received by the Permittee from the Director.

E. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

The Permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

2. Termination of Discharge

The Permittee shall notify the Director, in writing, when all discharges from any point source(s) identified on Page 1 of this Permit and described more fully in the Permittee's application have permanently ceased.

3. Updating Information

- a. The Permittee shall inform the Director of any change in the Permittee's mailing address or telephone number or in the Permittee's designation of a facility contact or officer(s) having the authority and responsibility to prevent and abate violations of the AWPCA, the AEMA, the Department's rules and regulations, and the terms and conditions of this Permit, in writing, no later than ten (10) days after such change. Upon request of the Director, the Permittee shall furnish the Director with an update of any information provided in the permit application.

- b. If the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

4. Duty to Provide Information

- a. The Permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, suspending, terminating, or revoking and reissuing this Permit, in whole or in part, or to determine compliance with this Permit. The Permittee shall also furnish to the Director upon request, copies of records required to be maintained by this Permit.
- b. The Permittee shall furnish to the Director upon request, within a reasonable time, available information (name, phone number, address, and site location) which identifies offsite sources of material or natural resources (mineral, ore, or other material such as iron, coal, coke, dirt, chert, shale, clay, sand, gravel, bauxite, rock, stone, etc.) used in its operation or stored at the facility.

F. SCHEDULE OF COMPLIANCE

The Permittee shall achieve compliance with the discharge limitations specified in Part I.A. of this Permit in accordance with the following schedule:

Compliance must be achieved by the effective date of this Permit.

PART II OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. Facilities Operation and Management

The Permittee shall at all times operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of this Permit.

2. Pollution Abatement and/or Prevention Plan

The Pollution Abatement and/or Prevention (PAP) Plan shall be prepared and certified by a registered Professional Engineer (PE), licensed to practice in the State of Alabama, and shall include at a minimum, the information indicated in ADEM Admin. Code r. 335-6-9-.03 and ADEM Admin. Code ch. 335-6-9 Appendices A and B. The PAP Plan shall become a part of this Permit and all requirements of the PAP Plan shall become requirements of this Permit pursuant to ADEM Admin. Code r. 335-6-9-.05(2).

3. Best Management Practices (BMPs)

a. Unless otherwise authorized in writing by the Director, the Permittee shall provide a means of subsurface withdrawal for any discharge from each point source identified on Page 1 of this Permit and described more fully in the Permittee's application. Notwithstanding the above provision, a means of subsurface withdrawal need not be provided for any discharge caused by a 24-hour precipitation event greater than a 10-year, 24-hour precipitation event.

b. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director has granted prior written authorization for dilution to meet water quality requirements.

c. The Permittee shall minimize the contact of water with overburden, including but not limited to stabilizing disturbed areas through grading, diverting runoff, achieving quick growing stands of temporary vegetation, sealing acid-forming and toxic-forming materials, and maximizing placement of waste materials in back-fill areas.

d. The Permittee shall prepare, submit to the Department for approval, and implement a Best Management Practices (BMPs) Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a potential for discharge, if so required by the Director. When submitted and approved, the BMP Plan shall become a part of this Permit and all requirements of the BMP Plan shall become requirements of this Permit.

e. Spill Prevention, Control, and Management

The Permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan acceptable to the Department that is prepared and certified by a Professional Engineer (PE), registered in the State of Alabama, for all onsite petroleum product or other pollutant storage tanks or containers as provided by ADEM Admin. Code r. 335-6-6-.08(j)5. The Plan shall describe and the Permittee shall implement appropriate structural and/or non-structural spill prevention, control, and/or management pursuant to

ADEM Admin. Code r. 335-6-6-.12 (r) sufficient to prevent any spills of pollutants from entering a ground or surface water of the State or a publicly or privately owned treatment works. The Plan shall include at a minimum, the engineering requirements provided in 40 C.F.R. §§112.1. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and shall prevent the contamination of groundwater. Such containment systems shall be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided. The Plan shall list any materials which the Permittee may utilize to contain and to absorb fuel and chemical spills and leaks. The Permittee shall maintain sufficient amounts of such materials onsite or have sufficient amounts of such materials readily available to contain and/or absorb fuel and chemical spills and leaks. Soil contaminated by chemical spills, oil spills, etc., must be immediately cleaned up or be removed and disposed of in a manner consistent with all State and federal regulations.

- f. All surface drainage and storm water runoff which originate within or enters the Permittee's premises and which contains any pollutants or other wastes shall be discharged, if at all, from a point source identified on Page 1 of this Permit and described more fully in the Permittee's application.
- g. The Permittee shall take all reasonable precautions to prevent any surface drainage or storm water runoff which originates outside the Permittee's premises and which contains any pollutants or other wastes from entering the Permittee's premises. At no time shall the Permittee discharge any such surface drainage or storm water runoff which enters the Permittee's premises if, either alone or in combination with the Permittee's effluent, the discharge would exceed any applicable discharge limitation specified in Part I.A. of this Permit.

4. Biocide Additives

- a. The Permittee shall notify the Director in writing not later than sixty (60) days prior to instituting the use of any biocide corrosion inhibitor or chemical additive in any cooling or boiler system(s) regulated by this Permit. Notification is not required for additives that should not reasonably be expected to cause the cooling water or boiler water to exhibit toxicity as determined by analysis of manufacturer's data or testing by the Permittee. Such notification shall include:
 - (a) Name and general composition of biocide or chemical;
 - (b) 96-hour median tolerance limit data for organisms representative of the biota of the water(s) which the discharge(s) enter(s);
 - (c) Quantities to be used;
 - (d) Frequencies of use;
 - (e) Proposed discharge concentrations; and
 - (f) EPA registration number, if applicable.
- b. The use of any biocide or chemical additive containing tributyl tin, tributyl tin oxide, zinc, chromium, or related compounds in any cooling or boiler system(s) regulated by the Permit is prohibited except as exempted below. The use of a biocide or additive containing zinc, chromium or related compounds may be used in special circumstances if (1) the permit contains limits for these substances, or (2) the applicant demonstrates during the application process that the use of zinc, chromium or related compounds as a biocide or

additive will not pose a reasonable potential to violate the applicable State water quality standards for these substances. The use of any additive, not identified in this Permit or in the application for this Permit or not exempted from notification under this Permit is prohibited, prior to a determination by the Department that permit modification to control discharge of the additive is not required or prior to issuance of a permit modification controlling discharge of the additive.

5. Facility Identification

The Permittee shall clearly display prior to commencement of any regulated activity and until permit coverage is properly terminated, the name of the Permittee, entire NPDES permit number, facility or site name, and other descriptive information deemed appropriate by the Permittee at an easily accessible location(s) to adequately identify the site, unless approved otherwise in writing by the Department. The Permittee shall repair or replace the sign(s) as necessary upon becoming aware that the identification is missing or is unreadable due to age, vandalism, theft, weather, or other reason.

6. Removed Substances

Solids, sludges, filter backwash, or any other pollutants or other wastes removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department rules and regulations.

7. Loss or Failure of Treatment Facilities

Upon the loss or failure of any treatment facility, including but not limited to the loss or failure of the primary source of power of the treatment facility, the Permittee shall, where necessary to maintain compliance with the discharge limitations specified in Part I.A. of this Permit or any other terms or conditions of this Permit, cease, reduce, or otherwise control production and/or discharges until treatment is restored.

8. Duty to Mitigate

The Permittee shall promptly take all reasonable steps to minimize or prevent any violation of this Permit or to mitigate and minimize any adverse impact to waters resulting from noncompliance with any discharge limitation specified in Part I.A. of this Permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as is necessary to determine the nature and impact of the noncomplying discharge.

B. BYPASS AND UPSET

1. Bypass

- a. Any bypass is prohibited except as provided in Parts II.B.1.b. and c.
- b. A bypass is not prohibited if:
 - (1) It does not cause any applicable discharge limitation specified in Part I.A. of this Permit to be exceeded;
 - (2) The discharge resulting from such bypass enters the same receiving water as the discharge from the permitted outfall;

- (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system; and
 - (4) The Permittee monitors the discharge resulting from such bypass at a frequency, at least daily, sufficient to prove compliance with the discharge limitations specified in Part I.A. of this Permit.
- c. A bypass is not prohibited and need not meet the discharge limitations specified in Part I.A. of this Permit if:
- (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the Permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The Permittee submits a written request for authorization to bypass to the Director at least ten (10) days, if possible, prior to the anticipated bypass or within 24 hours of an unanticipated bypass, the Permittee is granted such authorization, and Permittee complies with any conditions imposed by the Director to minimize any adverse impact to waters resulting from the bypass.
- d. The Permittee has the burden of establishing that each of the conditions of Parts II.B.1.b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in Part II.B.1.a. and an exemption, where applicable, from the discharge limitations specified in Part I.A. of this Permit.

2. Upset

- a. The Permittee may seek to demonstrate that noncompliance with technology-based effluent limits occurred as a result of an upset if the conditions of Part II.B.2.b are met and if the Permittee complies with the conditions provided in Part II.B.2.c.
- b. If the Permittee wishes to establish the affirmative defense of an upset for technology-based effluent limit noncompliance, the Permittee must demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the Permittee can identify the specific cause(s) of the upset;
 - (2) The wastewater treatment facility was at the time being properly operated in accordance with Part II.B.d.
 - (3) The Permittee submitted notice of the noncompliance during the upset as required by Part II.B.2.c; and
 - (4) The Permittee complied with any remedial measures required under Part II.A.7. of this Permit.
- c. If the Permittee wishes to establish the affirmative defense of an upset for technology-based effluent limit noncompliance, the Permittee shall:

- (1) No later than 24-hours after becoming aware of the occurrence of the upset, orally report the occurrence and circumstances of the upset to the Director in accordance with Part I.G.2.; and
 - (2) No later than five (5) days after becoming aware of the occurrence of the upset, furnish the Director with evidence, including properly signed, contemporaneous operating logs, design drawings, construction certification, maintenance records, weir flow measurements, dated photographs, rain gauge measurements, or other relevant evidence, demonstrating that:
 - (i) An upset occurred;
 - (ii) The Permittee can identify the specific cause(s) of the upset;
 - (iii) The Permittee's treatment facility was being properly operated at the time of the upset; and
 - (iv) The Permittee promptly took all reasonable steps to minimize any adverse impact to waters resulting from the upset.
- d. A discharge which is an overflow from a treatment facility or system, or an excess discharge from a point source associated with a treatment facility or system and which results from a 24-hour precipitation event larger than a 10-year, 24-hour precipitation event is not eligible to be considered as a result of an upset unless:
- (1) The treatment facility or system is designed, constructed, and maintained to contain the maximum volume of wastewater which would be generated by the facility during a 24-hour period without an increase in volume from precipitation and the maximum volume of wastewater resulting from a 10-year, 24-hour precipitation event or to treat the maximum flow associated with these volumes. In computing the maximum volume of wastewater which would result from a 10-year, 24-hour precipitation event, the volume which would result from all areas contributing runoff to the individual treatment facility must be included (i.e., all runoff that is not diverted from the mining area and runoff which is not diverted from the preparation plant area); and
 - (2) The Permittee takes all reasonable steps to maintain treatment of the wastewater and minimize the amount of overflow or excess discharge.
- e. The Permittee has the burden of proof in defense of any enforcement action as a result of noncompliance of technology-based effluent limits the Permittee proposes to attribute to an upset.

C. PERMIT CONDITIONS AND RESTRICTIONS

1. Prohibition against Discharge from Facilities Not Certified

- a. Notwithstanding any other provisions of this Permit, if the permitted facility has not obtained or is not required to obtain a permit from the Alabama Surface Mining Commission, any discharge(s) from any point or nonpoint source(s) from the permitted facility which was not certified to the Department on a form approved by the Department by a professional engineer, registered in the State of Alabama, as being designed, constructed, and in accordance with plans and specifications reviewed by the Department is prohibited; or

- b. Notwithstanding any other provisions of this Permit, if the permitted facility has obtained or is required to obtain a permit from the Alabama Surface Mining Commission, any discharge(s) from any point or nonpoint source(s) from the permitted facility which is associated with a treatment facility which was not constructed and certified to the Alabama Surface Mining Commission pursuant to applicable provisions of said Commission's regulations, is prohibited until the Permittee submits to the Alabama Surface Mining Commission, certification by a professional engineer, registered in the State of Alabama, certifying that such facility has been constructed in accordance with plans and specifications approved by the Alabama Surface Mining Commission. This requirement shall not apply to pumped discharges from the underground works of underground coal mines where no surface structure is required by the Alabama Surface Mining Commission, provided the Department is notified in writing of the completion or installation of such facilities, and the pumped discharges will meet permit effluent limits without treatment.

2. Permit Modification, Suspension, Termination, and Revocation

- a. This Permit may be modified, suspended, terminated, or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
 - (1) The violation of any term or condition of this Permit;
 - (2) The obtaining of this Permit by misrepresentation or the failure to disclose fully all relevant facts;
 - (3) The submission of materially false or inaccurate statements or information in the permit application or reports required by the Permit;
 - (4) The need for a change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
 - (5) The existence of any typographical or clerical errors or of any errors in the calculation of discharge limitations;
 - (6) The existence of material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
 - (7) The threat of the Permittee's discharge on human health or welfare; or
 - (8) Any other cause allowed by ADEM Admin. Code ch. 335-6-6.
- b. The filing of a request by the Permittee for modification, suspension, termination, or revocation and reissuance of this Permit, in whole or in part, does not stay any Permit term or condition of this Permit.

3. Automatic Expiration of Permits for New or Increased Discharges

- a. Except as provided by ADEM Admin. Code r. 335-6-6-.02(h) and 335-6-6-.05, if this Permit was issued for a new discharger or new source, it shall expire eighteen months after the issuance date if construction has not begun during that eighteen month period.

- b. Except as provided by ADEM Admin. Code r. 335-6-6-.02(h) and 335-6-6-.05, if any portion of this Permit was issued or modified to authorize the discharge of increased quantities of pollutants to accommodate the modification of an existing facility, that portion of this Permit shall expire eighteen months after this Permit's issuance if construction of the modification has not begun within eighteen month period.
- c. Construction has begun when the owner or operator has:
 - (1) Begun, or caused to begin as part of a continuous on-site construction program:
 - (i) Any placement, assembly, or installation of facilities or equipment; or
 - (ii) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or
 - (2) Entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under the paragraph. The entering into a lease with the State of Alabama for exploration and production of hydrocarbons shall also be considered beginning construction.
- d. The automatic expiration of this Permit for new or increased discharges if construction has not begun within the eighteen month period after the issuance of this Permit may be tolled by administrative or judicial stay.

4. Transfer of Permit

This Permit may not be transferred or the name of the Permittee changed without notice to the Director and subsequent modification or revocation and reissuance of this Permit to identify the new Permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership, or control of the Permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership, or control of the Permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership, or control, he may decide not to modify the existing Permit and require the submission of a new permit application.

5. Groundwater

Unless authorized on page 1 of this Permit, this Permit does not authorize any discharge to groundwater. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem, and the Director may require that the Permittee undertake measures to abate any such discharge and/or contamination.

6. Property and Other Rights

This Permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, trespass, or any infringement of Federal, State, or local laws or regulations, nor does it authorize or

approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the State or of the United States.

D. RESPONSIBILITIES

1. Duty to Comply

- a. The Permittee must comply with all terms and conditions of this Permit. Any permit noncompliance constitutes a violation of the AWPCA, AEMA, and the FWPCA and is grounds for enforcement action, for permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.
- b. The Permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the FWPCA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if this Permit has not yet been modified to incorporate the effluent standard, prohibition or requirement.
- c. For any violation(s) of this Permit, the Permittee is subject to a civil penalty as authorized by the AWPCA, the AEMA, the FWPCA, and Code of Alabama 1975, §§22-22A-1 et. seq., as amended, and/or a criminal penalty as authorized by Code of Alabama 1975, §22-22-1 et. seq., as amended.
- d. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of this Permit shall not be a defense for a Permittee in an enforcement action.
- e. Nothing in this Permit shall be construed to preclude or negate the Permittee's responsibility or liability to apply for, obtain, or comply with other ADEM, federal, state, or local government permits, certifications, licenses, or other approvals.
- f. The discharge of a pollutant from a source not specifically identified in the permit application for this Permit and not specifically included in the description of an outfall in this Permit is not authorized and shall constitute noncompliance with this Permit.
- g. The Permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this Permit or to minimize or prevent any adverse impact of any permit violation.

2. Change in Discharge

- a. The Permittee shall apply for a permit modification at least 180 days in advance of any facility expansion, production increase, process change, or other action that could result in the discharge of additional pollutants, increase the quantity of a discharged pollutant, or that could result in an additional discharge point. This requirement also applies to pollutants that are not subject to discharge limitations in this Permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.
- b. The Permittee shall notify the Director as soon as it knows or has reason to believe that it has begun or expects to begin to discharge any pollutant listed as a toxic pollutant pursuant to Section 307(a) of the FWPCA, 33 U.S.C. §1317(a), any substance designated as a hazardous substance pursuant to Section 311(b)(2) of the FWPCA, 33 U.S.C. §1321(b)(2), any waste listed as a hazardous waste pursuant to Code of Alabama 1975, §22-30-10, or any other pollutants or other wastes which is not subject to any discharge limitations

specified in Part I.A. of this Permit and was not reported in the Permittee's application, was reported in the Permittee's application in concentrations or mass rates lower than that which the Permittee expects to begin to be discharged, or has reason to believe has begun to be discharged.

3. Compliance with Toxic or Other Pollutant Effluent Standard or Prohibition

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Sections 301(b)(2)(C),(D),(E) and (F) of the FWPCA, 33 U.S.C. §1311(b)(2)(C),(D),(E), and (F); 304(b)(2) of the FWPCA, 33 U.S.C. §1314(b)(2); or 307(a) of the FWPCA, 33 U.S.C. §1317(a), for a toxic or other pollutant discharged by the Permittee, and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Part I.A. of this Permit or controls a pollutant not limited in Part I.A. of this Permit, this Permit shall be modified to conform to the toxic or other pollutant effluent standard or prohibition and the Permittee shall be notified of such modification. If this Permit has not been modified to conform to the toxic or other pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the authorization to discharge in this Permit shall be void to the extent that any discharge limitation on such pollutant in Part I.A. of this Permit exceeds or is inconsistent with the established toxic or other pollutant effluent standard or prohibition.

4. Compliance with Water Quality Standards and Other Provisions

- a. On the basis of the Permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this Permit will assure compliance with applicable water quality standards. However, this Permit does not relieve the Permittee from compliance with applicable State water quality standards established in ADEM Admin. Code ch. 335-6-10, and does not preclude the Department from taking action as appropriate to address the potential for contravention of applicable State water quality standards which could result from discharges of pollutants from the permitted facility.
- b. Compliance with Permit terms and conditions notwithstanding, if the Permittee's discharge(s) from point source(s) identified on Page 1 of this Permit cause(s) or contribute(s) to a condition in contravention of State water quality standards, the Department may require abatement action to be taken by the Permittee, modify the Permit pursuant to the Department's rules and regulations, or both.
- c. If the Department determines, on the basis of a notice provided pursuant to Part II.C.2. of this Permit or any investigation, inspection, or sampling, that a modification of this Permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification and, in cases of emergency, the Director may prohibit the noticed act until the Permit has been modified.

5. Compliance with Statutes and Rules

- a. This Permit has been issued under ADEM Admin. Code div. 335-6. All provisions of this division, that are applicable to this Permit, are hereby made a part of this Permit. A copy of this division may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Blvd., Montgomery, AL 36110-2059.

- b. This Permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

6. Right of Entry and Inspection

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:

- a. Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the Permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and
- d. Sample or monitor at reasonable times, for the purposes of assuring Permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

7. Duty to Reapply or Notify of Intent to Cease Discharge

- a. If the Permittee intends to continue to discharge beyond the expiration date of this Permit, the Permittee shall file with the Department a complete permit application for reissuance of this Permit at least 180 days prior to its expiration. **Applications must be submitted electronically via the Department's current electronic permitting system. The Department's current online permitting system, Alabama Environmental Permitting and Compliance System (AEPACS), can be found online at <https://aepacs.adem.alabama.gov/nviro/ncore/external/home>.**
- b. If the Permittee does not desire to continue the discharge(s) allowed by this Permit, the Permittee shall notify the Department at least 180 days prior to expiration of this Permit of the Permittee's intention not to request reissuance of this Permit. This notification must include the information required in Part I.D.4.a. and be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Admin. Code r. 335-6-6-.09.
- c. Failure of the Permittee to submit to the Department a complete application for reissuance of this Permit at least 180 days prior to the expiration date of this Permit will void the automatic continuation of this Permit provided by ADEM Admin. Code r. 335-6-6-.06; and should this Permit not be reissued for any reason, any discharge after the expiration of this Permit will be an unpermitted discharge.

PART III ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. CIVIL AND CRIMINAL LIABILITY

1. Tampering

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under this Permit shall, upon conviction, be subject to penalties and/or imprisonment as provided by the AWPCA and/or the AEMA.

2. False Statements

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished as provided by applicable State and Federal law.

3. Permit Enforcement

This NPDES Permit is a Permit for the purpose of the AWPCA, the AEMA, and the FWPCA, and as such all terms, conditions, or limitations of this Permit are enforceable under State and Federal law.

4. Relief From Liability

Except as provided in Part II.B.1. (Bypass) and Part II.B.2. (Upset), nothing in this Permit shall be construed to relieve the Permittee of civil or criminal liability under the AWPCA, AEMA, or FWPCA for noncompliance with any term or condition of this Permit.

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this Permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties to which the Permittee is or may be subject to under Section 311 of the FWPCA, 33 U.S.C. §1321.

C. AVAILABILITY OF REPORTS

Except for data determined to be confidential under Code of Alabama 1975, §22-22-9(c), all reports prepared in accordance with the terms of this Permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential. Knowingly making any false statement in any such report may result in the imposition of criminal penalties as provided for in Section 309 of the FWPCA, 33 U.S.C. §1319, and Code of Alabama 1975, §22-22-14.

D. DEFINITIONS

1. Alabama Environmental Management Act (AEMA) - means Code of Alabama 1975, §§22-22A-1 et. seq., as amended.
2. Alabama Water Pollution Control Act (AWPCA) - means Code of Alabama 1975, §§22-22-1 et. seq., as amended.
3. Average monthly discharge limitation - means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar

month divided by the number of "daily discharges" measured during that month (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).

4. Arithmetic Mean - means the summation of the individual values of any set of values divided by the number of individual values.
5. BOD - means the five-day measure of the pollutant parameter biochemical oxygen demand
6. Bypass - means the intentional diversion of waste streams from any portion of a treatment facility.
7. CBOD - means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. Controlled Surface Mine Drainage – means any surface mine drainage that is pumped or siphoned from the active mining area.
9. Crushed stone mine - means an area on or beneath land which is mined, quarried, or otherwise disturbed in activity related to the extraction, removal, or recovery of stone from natural or artificial deposits, including active mining, reclamation, and mineral storage areas, for production of crushed stone.
10. Daily discharge - means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
11. Daily maximum - means the highest value of any individual sample result obtained during a day.
12. Daily minimum - means the lowest value of any individual sample result obtained during a day.
13. Day - means any consecutive 24-hour period.
14. Department - means the Alabama Department of Environmental Management.
15. Director - means the Director of the Department or his authorized representative or designee.
16. Discharge - means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state." Code of Alabama 1975, §22-22-1(b)(8).
17. Discharge monitoring report (DMR) - means the form approved by the Director to accomplish monitoring report requirements of an NPDES Permit.
18. DO - means dissolved oxygen.
19. E. coli – means the pollutant parameter Escherichia coli.
20. 8HC - means 8-hour composite sample, including any of the following:
 - a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.

- b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
21. EPA - means the United States Environmental Protection Agency.
22. Federal Water Pollution Control Act (FWPCA) - means 33 U.S.C. §§1251 et. seq., as amended.
23. Flow – means the total volume of discharge in a 24-hour period.
24. Geometric Mean - means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
25. Grab Sample - means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
26. Indirect Discharger - means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
27. Industrial User - means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D – Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
28. mg/L - means milligrams per liter of discharge.
29. MGD - means million gallons per day.
30. Monthly Average - means, other than for E. coli bacteria, the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for E. coli bacteria is the geometric mean of daily discharge samples collected in a one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period. (Zero discharges shall not be included in the calculation of monthly averages.)
31. New Discharger - means a person owning or operating any building, structure, facility or installation:
- a. From which there is or may be a discharge of pollutants;
 - b. From which the discharge of pollutants did not commence prior to August 13, 1979, and which is not a new source; and
 - c. Which has never received a final effective NPDES Permit for dischargers at that site.
32. New Source - means:
- a. A new source as defined for coal mines by 40 CFR Part 434.11 (1994); and
 - b. Any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
 - (1) After promulgation of standards of performance under Section 306 of FWPCA which are applicable to such source; or

- (2) After proposal of standards of performance in accordance with Section 306 of the FWPCA which are applicable to such source, but only if the standards are promulgated in accordance with Section 206 within 120 days of their proposal.
33. NH₃-N - means the pollutant parameter ammonia, measured as nitrogen.
34. 1-year, 24-hour precipitation event - means the maximum 24-hour precipitation event with a probable recurrence interval of once in one year as defined by the National Weather Service and Technical Paper No. 40, "Rainfall Frequency Atlas of the U.S.," May 1961, or equivalent regional or rainfall probability information developed therefrom.
35. Permit application - means forms and additional information that are required by ADEM Admin. Code r. 335-6-6-.08 and applicable permit fees.
36. Point Source - means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. §1362(14).
37. Pollutant - includes for purposes of this Permit, but is not limited to, those pollutants specified in Code of Alabama 1975, §22-22-1(b)(3) and those effluent characteristics, excluding flow, specified in Part I.A. of this Permit.
38. Pollutant of Concern - means those pollutants for which a water body is listed as impaired or which contribute to the listed impairment.
39. Pollution Abatement and/or Prevention Plan (PAP Plan) – mining operations plan developed to minimize impacts on water quality to avoid a contravention of the applicable water quality standards as defined in ADEM Admin. Code r. 335-6-9-.03
40. Preparation, Dry - means a dry preparation facility within which the mineral/material is cleaned, separated, or otherwise processed without use of water or chemical additives before it is shipped to the customer or otherwise utilized. A dry preparation plant includes all ancillary operations and structures necessary to clean, separate, or otherwise process the mineral/material, such as storage areas and loading facilities. Dry preparation also includes minor water spray(s) used solely for dust suppression on equipment and roads to minimize dust emissions.
41. Preparation, Wet - means a wet preparation facility within which the mineral/material is cleaned, separated, or otherwise processed using water or chemical additives before it is shipped to the customer or otherwise utilized. A wet preparation plant includes all ancillary operations and structures necessary to clean, separate, or otherwise process the mineral/material, such as storage areas and loading facilities. Wet preparation also includes mineral extraction/processing by dredging, slurry pumping, etc.
42. Privately Owned Treatment Works - means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
43. Publicly Owned Treatment Works (POTW) - means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
44. Receiving Stream - means the "waters" receiving a "discharge" from a "point source".

45. Severe property damage - means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
46. 10-year, 24-hour precipitation event - means that amount of precipitation which occurs during the maximum 24-hour precipitation event with a probable recurrence interval of once in ten years as defined by the National Weather Service and Technical Paper No. 40, "Rainfall Frequency Atlas of the U.S.," May 1961, or equivalent regional or rainfall probability information developed therefrom.
47. TKN - means the pollutant parameter Total Kjeldahl Nitrogen.
48. TON - means the pollutant parameter Total Organic Nitrogen.
49. TRC - means Total Residual Chlorine.
50. TSS -- means the pollutant parameter Total Suspended Solids
51. Treatment facility and treatment system - means all structures which contain, convey, and as necessary, chemically or physically treat mine and/or associated preparation plant drainage, which remove pollutants limited by this Permit from such drainage or wastewater. This includes all pipes, channels, ponds, tanks, and all other equipment serving such structures.
52. 24HC - means 24-hour composite sample, including any of the following:
 - a. The mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b. A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
 - c. A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
53. 24-hour precipitation event - means that amount of precipitation which occurs within any 24-hour period.
54. 2-year, 24-hour precipitation event - means the maximum 24-hour precipitation event with a probable recurrence interval of once in two years as defined by the National Weather Service and Technical Paper No. 40, "Rainfall Frequency Atlas of the U.S.," May 1961, or equivalent regional or rainfall probability information developed therefrom.
55. Upset - means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate facilities, lack of preventive maintenance, or careless or improper operation.
56. Waters - means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the State, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership, or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, §22-22-1(b)(2). "Waters" include all "navigable waters" as defined in §502(7) of the FWPCA, 33 U.S.C. §1362(7), which are within the State of Alabama.

57. Week - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
58. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

E. SEVERABILITY

The provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit, shall not be affected thereby.

F. PROHIBITIONS AND ACTIVITIES NOT AUTHORIZED

1. Discharges from disposal or landfill activities as described in ADEM Admin. Code div. 335-13 are not authorized by this Permit unless specifically approved by the Department.
2. Relocation, diversion, or other alteration of a water of the State is not authorized by this Permit unless specifically approved by the Department.
3. Lime or cement manufacturing or production and discharge of process waters from such manufacturing or production is not authorized by this Permit unless specifically approved by the Department.
4. Concrete or asphalt manufacturing or production and discharge of process waters from such manufacturing or production is not authorized by this Permit unless specifically approved by the Department.
5. The discharge of wastewater, generated by any process, facility, or by any other means not under the operational control of the Permittee or not identified in the application for this Permit or not identified specifically in the description of an outfall in this Permit is not authorized by this Permit.

G. DISCHARGES TO IMPAIRED WATERS

1. This Permit does not authorize new sources or new discharges of pollutants of concern to impaired waters unless consistent with an EPA-approved or EPA-established Total Maximum Daily Load (TMDL) and applicable State law, or unless compliance with the limitations and requirements of the Permit ensure that the discharge will not contribute to further degradation of the receiving stream. Impaired waters are those that do not meet applicable water quality standards and are identified on the State of Alabama's §303(d) list or on an EPA-approved or EPA-established TMDL. Pollutants of concern are those pollutants for which the receiving water is listed as impaired or contribute to the listed impairment.
2. Facilities that discharge into a receiving stream which is listed on the State of Alabama's §303(d) list of impaired waters, and with discharges that contain the pollutant(s) for which the waters are impaired, must within six (6) months of the Final §303(d) list approval, document in its BMP plan how the BMPs will control the discharge of the pollutant(s) of concern, and must ensure that there will be no increase of the pollutants of concern. A monitoring plan to assess the effectiveness of the BMPs in achieving the allocations must also be included in the BMP plan.

3. If the facility discharges to impaired waters as described above, it must determine whether a TMDL has been developed and approved or established by EPA for the listed waters. If a TMDL is approved or established during this Permit cycle by EPA for any waters into which the facility discharges, the facility must review the applicable TMDL to see if it includes requirements for control of any water discharged by the Permittee. Within six (6) months of the date of TMDL approval or establishment, the facility must notify the Department on how it will modify its BMP plan to include best management practices specifically targeted to achieve the allocations prescribed by the TMDL, if necessary. Any revised BMP plans must be submitted to the Department for review. The facility must include in the BMP plan a monitoring component to assess the effectiveness of the BMPs in achieving the allocations.

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION**

NPDES INDIVIDUAL PERMIT RATIONALE

Company Name: Southeastern Land Development, LLC

Facility Name: Southeastern

County: Tuscaloosa

Permit Number: AL0084467

Prepared by: Jasmine White

Date: December 9, 2022

Receiving Waters: Unnamed Tributary to Mud Creek, Unnamed Tributary to Reno Lake

Permit Coverage: Limestone Quarry, Dry and Wet Preparations, Mineral Loading, Mineral Transportation, Mineral Storage,

SIC Code: 1422

The Department has made a tentative determination that the available information is adequate to support issuance of this permit.

This proposed permit covers a limestone quarry with dry and wet preparations, mineral loading, mineral transportation, mineral storage, and associated areas which discharge to surface waters of the state.

The proposed permit authorizes treated discharges into stream segments, other State waters, or local watersheds that are classified as Fish and Wildlife (F&W) per ADEM Admin. Code ch. 335-6-11. If the requirements of the proposed permit are fully implemented, the facility will not discharge pollutants at levels that will cause or contribute to a violation of the F&W classification.

Full compliance with the proposed permit terms and conditions is expected to be protective of instream water quality and ensure consistency with applicable instream State water quality standards (WQS) for the receiving stream.

Technology Based Effluent Limits (TBELs) for crushed stone mining facilities can be found in 40 CFR 436.22(1) and (2) for facilities that recycle waste water for use in processing and mine dewatering, respectively. The TBELs were promulgated for existing dischargers using the Best Practicable Control Technology Available (BPT). New Source Performance Standards (NSPS) have not yet been developed by the EPA for the Crushed Stone Subcategory.

The instream WQS for pH, for streams classified as F&W, are 6.0 - 8.5 s.u. per ADEM Admin Code r. 335-6-10-.09. TBELs found in 40 CFR 436 Subpart B for crushed stone facilities include a limitation for pH of 6.0 – 9.0 s.u. Information provided in the Permittee’s application indicated that Outfalls 001-1 and 002-1 will have pumped or controlled discharges that could occur when the discharge/stream flow ratio may be high; therefore, discharge limitations for pH of 6.0 – 8.5 s.u. are proposed for Outfalls 001-1 and 002-1 per ADEM Admin Code r. 335-6-10-.09.

The TBELs for 40 CFR 436 Subpart B do not include limitations for Total Suspended Solids (TSS). TSS is classified as a conventional pollutant in 40 CFR 401.16 and is expected to be discharged from this type of facility. Therefore, monthly average and daily maximum effluent limitations for TSS are those proposed by the EPA for crushed stone mine drainage in the *Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Mineral Mining and Processing Point Source Category* (July 1979).

The applicant has requested, in accordance with 40 CFR Part 122.21 and their NPDES permit application, a waiver from testing for the Part A, B, and C pollutants listed in the EPA Form 2C and 2D that are not addressed in their application. They have also certified that due to the processes involved in their mining activity these pollutants are believed to be not present in the waste stream.

The Pollution Abatement/Prevention (PAP) plan for this facility has been prepared by a professional engineer (PE) registered in the State of Alabama and is designed to ensure reduction of pollutants in the waste stream to a level that, if operated properly, the discharge will not contribute to or cause a violation of applicable State WQS. The proposed permit terms and conditions are predicated on the basis of ensuring a reduction of pollutants in the discharge to a level that reduces the potential of contributing to or causing a violation of applicable State WQS.

In accordance with ADEM Admin. Code r. 335-6-3-.07 the design PE, as evidenced by their seal and/or signature on the application, has accepted full responsibility for the effectiveness of the waste treatment facility to treat the Permittee's effluent to meet NPDES permit limitations and requirements, and to fully comply with Alabama's WQS, when such treatment facilities are properly operated.

If there is a reasonable potential that a pollutant present in the treated discharges from a facility could cause or contribute to a contravention of applicable State WQS above numeric or narrative criteria, 40 CFR Part 122 requires the Department to establish effluent limits using calculated water quality criterion, establish effluent limits on a case-by-case basis using criteria established by EPA, or establish effluent limits based on an indicator parameter. Based on available information, potential pollutants discharged from this facility, if discharged within the concentrations allowed by this permit, would not have a reasonable potential to cause or contribute to a contravention of applicable State WQS.

Pursuant to ADEM Admin. Code r. 335-6-6-.12(r) this permit requires the Permittee to design and implement a Spill Prevention Control and Countermeasures (SPCC) plan for all stored chemicals, fuels and/or stored pollutants that have the potential to discharge to a water of the State. This plan must meet the minimum engineering requirements as defined in 40 CFR Part 112 and must provide for secondary containment adequate to control a potential spill.

The applicant is not proposing discharges of pollutants to a water of the State with an approved Total Maximum Daily Load (TMDL).

The applicant is not proposing discharges into a stream segment or other State water that is included on Alabama's current CWA §303(d) list.

The applicant is not proposing new discharges of pollutant(s) to an ADEM identified Tier I water.

The proposed permit action authorizes new discharges of pollutants to receiving waters determined by the Department to be waters where the quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water (Tier II). Pursuant to ADEM Admin. Code r. 335-6-10 (Antidegradation Policy and Implementation of the Antidegradation Policy), the applicant has submitted and the Department has reviewed and considered information regarding (1) demonstration of

necessity/importance, (2) alternatives analysis, and (3) calculations of total annualized costs for technically feasible treatment alternatives regarding the proposed new discharges to Tier II waters. The Department has determined, based on the applicant's demonstration, that the proposed new discharges to the Tier II waters are necessary for important economic or social development in the area in which the waters are located.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION

ANTIDegradation Rationale

Company Name: Southeastern Land Development, LLC
Facility Name: Southeastern
County: Tuscaloosa
Permit Number: AL0084467
Prepared by: Jasmine White
Date: December 9, 2022
Receiving Waters: Unnamed Tributary to Mud Creek, Unnamed Tributary to Reno Lake
Stream Category: Tier II as defined by ADEM Admin. Code 335-6-10-.12
Discharge Description: This proposed permit covers a limestone quarry, dry and wet preparations, transportation and storage, and associated areas which discharge to surface waters

The following preliminary determination was prepared in accordance with ADEM Admin. Code 335-6-10-.12 (7) (c):

The Department has reviewed the information submitted by applicant in accordance with ADEM Admin. Code 335-6-10-.12(9). The applicant has demonstrated that there are no technically or economically viable treatment options in its alternatives analysis that would completely eliminate a direct discharge.

The permit applicant has indicated that the following economic and social benefits will result from this project:

1. The Permittee submits that the facility will employ 20 full time employees.
2. The Permittee submits that the facility will pay \$95,000 annually in state and local taxes.
3. The Permittee submit they will provide public service to the community by providing amenities to the neighboring Lake View Elementary School.
4. The Permittee submits they will provide economic benefit to the community by providing construction materials for continued economic growth of the surrounding region.

The Department has determined that the discharge proposed by the permit applicant is necessary for important economic and social development in the area of the outfall location in the receiving water.

Reviewed By: William D. McClimans

Date: 12/14/2022

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NPDES Individual Application - Mining (Form 315)

version 3.1

(Submission #: HPM-CY74-4NAWG, version 3)

Details

Submission ID HPM-CY74-4NAWG

Status In Process

Fees

Fee \$8,470.00

Payments/Adjustments (\$10,550.00)

Balance Due (\$2,080.00) (Paid)

Form Input

Processing Information

Is this a coalbed methane operation?

No

Please indicate the purpose of this application:

Initial Permit Application for New Facility

General Instructions

Permittee Information

Permittee

Permittee Name

Southeastern Land Developmet, LLC

Mailing Address

1711 Waters Edge Court

Murfreesboro, TN 37130

Responsible Official

Prefix

Mr.

First Name Last Name

Cyrus Wiser

Title

President/CEO

Organization Name

Southeastern Land Development

Phone Type Number Extension

Mobile 6152782480

Email

cwwiser@wiser.team

Mailing Address

1711 WATERS EDGE CT
MURFREESBORO, TN 37130

CORRECTION REQUEST (APPROVED)

Needs RO Signature

Responsible official has to sign the revision submission.
Created on 11/7/2022 9:32 AM by **Jasmine White**

Facility/Operations Information

Facility/Operations Name

Southeastern

Permittee Organization Type

LLC

Parent Corporation and Subsidiary Corporations of Applicant, if any:

NONE PROVIDED

Landowner(s) Name, Address and Phone Number:

Valley Creek Land & Timber LLC
PO Box 5327
Jackson, MS 39296
205-436-2566

Sub-contractor(s)/Operator(s), if known:

NONE PROVIDED

Is the "Company/Permittee" properly registered and in good standing with the Alabama Secretary of State's office?

Yes

Facility/Operations Address or Location Description

21368 Reno Camp Road
McCalla, AL 35111

Facility/Operations County (Front Gate)

Tuscaloosa

Do the operations span multiple counties?

No

Detailed Directions to the Facility/Operations

From US-11/I-359/I-20E/I-59N interchange in Tuscaloosa, AL, Head northeast on I-20 E/I-59 (25.4mi.), Take exit 97 for US-11 S/AL-5 toward W Blocton (0.3mi.), Turn left onto AL-5 N/US-11 N (0.2mi), continue onto Shamblin Woods Rd. (0.2mi.), turn right onto Reno Camp Rd.

Facility/Operations Front Gate Latitude and Longitude

33.25490,-87.125939

Township(s), Range(s), Section(s) (Note: If you are submitting multiple TRSs, please separate each TRS by a semicolon. Example: T19S,R1E,S15; T20S,R2E,S16)

T20S,R6W,S25,36

SIC Code(s) [Please select your primary SIC code first]:

1422-Crushed and Broken Limestone

NAICS Code(s) [Please select your primary NAICS code first]:

212312-Crushed and Broken Limestone Mining and Quarrying

Facility/Operations Contact

Prefix

Mr.

First Name Last Name

Bob Woodham

Title

Project Manager

Organization Name

Wiser Consultants

Phone Type Number Extension

Mobile 12054102283

Email

jwoodham@wiserconsultants.com

Member Information

Identify the name, title/position, and unless waived in writing by the Department, the resident address of every officer (a PO Box is not acceptable), general partner, LLP partner, LLC member, investor, director, or person performing a function similar to a director, of the applicant, and each person who is the record or beneficial owner of 10 percent or more of any class of voting stock of the applicant, or any other responsible official(s) of the applicant with legal or decision making responsibility or authority for the facility/operations:

List of Names/Titles/Addresses, as described in the instructions above, will be entered by:

Manually Entering in Table

Name	Title/Position	Physical Address of Residence
Cyrus Wiser	President/CEO/Member	1711 Waters Edge Court, Murfreesboro, TN 37130
Eugene Hartley	Member	796 Lake Crest Drive, Hoover, AL 37130

Other than the "Company/Permittee", identify the name of each corporation, partnership, association, and single proprietorship for which any individual identified above 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 (if this does not apply, then enter N/A after selecting "Manually Enter in Table"):

List of Corporations/Partnerships/etc, Names and Titles, as described in the instructions above, will be entered by:

Manually Entering in Table

Name of Corporation, Partnership, Association, or Single Proprietorship	Name of Individual	Title/Position in Corporation, Partnership, Association, or Single Proprietorship
NA	NA	NA

Additional Contacts (1 of 1)

ADDITIONAL CONTACTS: Engineer

CORRECTION REQUEST (APPROVED)

Blank Contact Info

Was this added in error?

Created on 9/27/2022 4:16 PM by **Jasmine White**

Contact Type

Engineer

Contact

First Name **Last Name**

Bob Woodham

Title

Project Manager

Organization Name

Wiser Consultants

Phone Type **Number** **Extension**

Mobile 2054102283

Email

jrwoodham@wiserconsultants.com

Address

1620 GATEWAY BLVD

STE 201

MURFREESBORO, TN 37129

Compliance History

Has the applicant ever had any of the following:

Event	Apply?
An Alabama NPDES, SID, or UIC permit suspended or terminated	No
An Alabama or federal environmental permit suspended/terminated	No
An Alabama State Oil Gas Board permit or other approval suspended or terminated	No
An Alabama or federal performance/environmental bond, or similar security deposited in lieu of a bond, or portion thereof, forfeited	No

Has the applicant, parent corporation, subsidiary, general partner, LLP partner, or LLC Member had any Warning Letters, Notice of Violations (NOVs), Administrative Actions, or litigation filed by ADEM or EPA during the three year (36 month) period preceding the date on which this form is signed?

No

For this facility, 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 Department of Labor (ADOL), US Army Corp of Engineers (USACE), or other agency, to the applicant, parent corporation, subsidiary, or LLC member whether presently effective, expired, suspended, revoked, or terminated:

NONE

For other facilities, list any other NPDES or other ADEM permits (including permit numbers), authorizations, or certifications that have been applied for or issued within the State by ADEM, EPA, ASMC, ADOL, or USACE, to the applicant, parent corporation, subsidiary, or LLC member whether presently effective, expired, suspended, revoked, or terminated:

None

Anti-Degradation Evaluation

CORRECTION REQUEST (APPROVED)

Anti-Degradation Evaluation

The Anti-Degradation is required for a new permit.
Created on 9/27/2022 4:18 PM by **Jasmine White**

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

Yes

NOTE

If the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete questions below, ADEM Form 311-Alternatives Analysis, and either ADEM Form 312 or ADEM Form 313- Calculation of Total Annualized Project Costs (Public-Sector or Private-Sector Projects, whichever is applicable). ADEM Form 312 or ADEM Form 313, whichever is applicable, must be provided for each treatment discharge alternative considered technically viable.

[ADEM forms can be found on the Department's website here.](#)

What environmental or public health problem will the discharger be correcting?

None

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

Approximately 20 full-time employees will be hired locally.

How much reduction in employment will the discharger be avoiding?

None

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

Southeastern Quarry estimates generating additional state & local sales tax revenue of \$95,000 annually. Additionally, Southeastern Quarry will be paying significant taxes as a result of the purchase of construction materials, equipment, and fuel from local sources.

What public service to the community will the discharger be providing?

Southeastern Quarry will be a good neighbor within the community, and plans to support and enhance local education, including the neighboring Lake View Elementary School, by providing them with amenities they currently lack. Southeastern Quarry will be a dedicated steward of all natural resources found within the facility as well as the surrounding area, and will faithfully protect the land, air, and water from harm.

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

Providing construction materials necessary for the continued economic growth of the surrounding region. Southeastern Quarry will provide employment for the local community, additional tax revenue to the region, and plans to become an active participant in meeting the needs of the local population.

Attach Form 311 (Alternative Analysis)

[Form311 - JRW.pdf - 11/02/2022 12:16 PM](#)

[Alternatives Analysis.pdf - 11/02/2022 12:16 PM](#)

Comment

NONE PROVIDED

Please attach Form 312 (Public Sector Projects) or Form 313 (Private Sector Projects).

Form313.pdf - 11/02/2022 12:17 PM

Comment

NONE PROVIDED

Activity Description & Information

Narrative description of activity(s):

Mining Limestone/Dolomite and crushing for such for construction industry

Total Facility/Operations Area (acres)

406.00

Total Disturbed Area (acres)

51.00

Anticipated Commencement Date

7/1/2023

Anticipated Completion Date

7/01/2028

Please identify which of the following apply to this operation:

Activity/Condition	Apply?
An existing facility/operation which currently results in discharges to State waters?	No
A proposed facility/operation which will result in a discharge to State waters?	Yes
Be located within any 100-year flood plain?	No
Discharge to Municipal Separate Storm Sewer?	No
Discharge to waters of or be located in the Coastal Zone?	No
Need/have ADEM UIC permit coverage?	No
Be located on Indian/historically significant lands?	No
Need/have ADEM SID permit coverage?	No
Need/have ASMC permit coverage?	No
Need/have State Oil & Gas Board permit coverage?	No
Need/have ADOL permit coverage?	No
Generate, treat, store, or dispose of hazardous or toxic waste?	No
Be located in or discharge to a Public Water Supply (PWS) watershed or be located within 1/4 mile of any PWS well?	No
Incised pit	No

Does your facility/operation use cooling water?

No

Material to be Removed, Processed, or Transloaded

Material To Be Removed, Processed, Or Transloaded (Note: Sum must equal 100.)

Mineral(s)/Mineral product(s)	%
Limestone, crushed limestone and dolomite	100
	Sum: 100

Proposed Activity To Be Conducted

Type(s) of activity presently conducted at applicant's existing facility or proposed to be conducted at facility (Select Yes or No):

Activity	Apply?
Adjacent/associated asphalt/concrete plant(s)	No
Alternative fuels operation	No
Auger mining	No
Cement production	No
Chemical processing or leaching	No
Chemicals used in process or wastewater treatment (coagulant, biocide, etc.)	No
Construction related temporary borrow pits/areas	No
Creek/stream crossings	No
Excavation	No
Grading, clearing, grubbing, etc.	Yes
Hydraulic mining	No
Hydraulic mining, dredging, instream or between stream-bank mining	No
Lime production	No
Low volume sewage treatment package plant	No
Mineral dry processing (crushing & screening)	Yes
Mineral loading	Yes
Mineral storing	Yes
Mineral transportation	Yes
Mineral wet preparation	Yes
Onsite construction debris or equipment storage/disposal	No
Onsite mining debris or equipment storage/disposal	No
Other beneficiation & manufacturing operations	No
Pre-construction ponded water removal	No
Pre-mining logging or land clearing	No
Preparation plant waste recovery	No
Quarrying	Yes
Reclamation of disturbed areas	No
Solution mining	No
Surface mining	Yes
Synthetic fuel production	No
Underground mining	No
Waterbody relocation or other alteration	No
Within-bank mining	No

CORRECTION REQUEST (APPROVED)

Mineral dry processing (crushing & screening)

Mineral dry processing (crushing & screening) selection answered incorrectly.
Created on 9/27/2022 4:03 PM by **Jasmine White**

1 COMMENT

Jasmine White (jasmine.white@adem.alabama.gov) (11/7/2022 9:42 AM)

The following activities need to be updated: -Quarrying -Mineral Dry Processing -Mineral Loading -Mineral Transportation - Mineral Wet Processing

If the operation will include activities other than those listed above, please describe them below:

NONE PROVIDED

If the type of activity presently conducted or proposed is Mineral Transportation, please indicate which of the following apply:

Method	Apply?
Barge	No
Rail	No
Truck	Yes

Fuel - Chemical Handling, Storage, & Spill Prevention Control & Countermeasures (SPCC) Plan

Will fuels, chemicals, compounds, or liquid waste be used or stored onsite?

Yes

Please identify the fuel, chemicals, compounds, or liquid waste and indicate the volume of each:

Volume (gallons)	Contents
1,000	Diesel

SPCC Plan

[SoutheasternSPCC.pdf - 09/02/2022 10:37 AM](#)

Comment

NONE PROVIDED

ASMC Regulated Entities

Is this a coal mining operation regulated by ASMC?

No

Topographic Map Submittal

Topographic Map

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 are 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 intake and discharge areas (e) Proposed and existing discharge points (f) Perennial, intermittent, and ephemeral streams (g) Lakes, springs, water wells, wetlands (h) All known facility dirt/improved access/haul roads (i) All surrounding unimproved/improved roads (j) High-tension power lines and railroad tracks (k) Contour lines, township-range-section lines (l) Drainage patterns, swales, washes (m) All drainage conveyance/treatment structures (ditches, berms, etc.) (n) Any other pertinent or significant feature.

Topographic Map

[ExhibitA.pdf - 11/02/2022 02:33 PM](#)

Comment

This was uploaded on 11/2/22

Detailed Facility Map Submittal

Detailed Facility Map

[ExhibitBLAKEVIEW_FACILITY MAP.pdf - 11/02/2022 02:45 PM](#)

Comment

File Uploaded 11/2/22

Outfalls (1 of 2)

Outfall Identifier: 001

CORRECTION REQUEST (APPROVED)

Outfall 002

Outfall 002 not listed in the application.
Created on 9/27/2022 3:54 PM by **Jasmine White**

Feature Type

Outfall (External)

Outfall Identifier

001

Outfall Status

Proposed

i Please be aware that you should only mark an outfall status as existing if (1) the Department has been previously notified that it was constructed as proposed or (2) it began discharge prior to this application. A proposed outfall is one that is being newly added to the permit OR one that has never discharged or has never been authorized by the Department to discharge. Should you have any questions about which status to select, please contact the Department's permit engineer for this site.

Receiving Water

Mud Creek

Check below if the discharge enters the receiving water via an unnamed tributary.

Unnamed Tributary

Location of Outfall

33.2631,-87.1141

303(d) Segment?

No

TMDL Segment?

No

Outfalls (2 of 2)

Outfall Identifier: 002

Feature Type

Outfall (External)

Outfall Identifier

002

Outfall Status

Proposed

i Please be aware that you should only mark an outfall status as existing if (1) the Department has been previously notified that it was constructed as proposed or (2) it began discharge prior to this application. A proposed outfall is one that is being newly added to the permit OR one that has never discharged or has never been authorized by the Department to discharge. Should you have any questions about which status to select, please contact the Department's permit engineer for this site.

Receiving Water

Reno Lake

CORRECTION REQUEST (APPROVED)

Receiving Stream Correction

Created on 11/7/2022 9:10 AM by **Jasmine White**

Check below if the discharge enters the receiving water via an unnamed tributary.

Unnamed Tributary

Location of Outfall

33.2562,-87.1213

303(d) Segment?

No

TMDL Segment?

No

Discharge Characterization

EPA Form 2C, EPA Form 2D, and/or ADEM Form 567 Submittal

Yes, pursuant to 40 CFR 122.21, the applicant requests a waiver for completion of EPA Form 2C, EPA Form 2D, and ADEM Form 567 and certifies that the operating facility will discharge treated stormwater only; that chemical/compound additives are not used (unless waived in writing by the Department on a programmatic, categorical, or individual compound/chemical basis); that there are no process, manufacturing, or other industrial operations or wastewaters, including but not limited to lime or cement production and synfuel operations; and that coal and coal products are not mined nor stored onsite.

Required attachment:

[DischargeCharacter.xlsx - 09/02/2022 11:05 AM](#)

Comment

NONE PROVIDED

Required attachment:

[DischargeCharacter2.xlsx - 09/02/2022 11:10 AM](#)

Comment

NONE PROVIDED

Discharge Structure Description & Pollutant Source

Required attachment:

[Form315DischargeStructure.xlsx - 11/02/2022 03:05 PM](#)

Comment

Form edited on 11/2/22

Variance Request

Do you intend to request or renew one or more of the CWA technology variances authorized at 40 CFR 122.21(m)?

No

Pollution Abatement & Prevention (PAP) Plan Summary (1 of 1)

Outfall(s):

001P, 002P

Outfall Questions:	Please select one:
Runoff from all areas of disturbance is controlled	Yes

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

Identify and provide detailed explanation for any \diamond N \diamond or \diamond N/A \diamond response(s):

Emergency spillway does not discharge into PWS classified stream.

No stream crossings are to be constructed as part of this plan.

Pollution Abatement & Prevention (PAP) Plan Review Checklist

General Information:	Please select one:
PE Seal with License #	Yes

General Information:	Please select one:
Name and Address of Operator	Yes
Legal Description of Facility	Yes
Name of Company	Yes
Number of Employees	Yes
Products to be Mined	Yes
Hours of Operation	Yes
Water Supply and Disposition	Yes

Maps:	Please select one:
Topographic Map including Information from Part XIII (a) (o) of this Application	Yes
1" or 500' or Equivalent Facility Map including Information from Part XIV of this Application	Yes

Detailed Design Diagrams:	Please select one:
Plan Views	Yes
Cross-section Views	Yes
Method of Diverting Runoff to Treatment Basins	Yes
Line Drawing of Water Flow through Facility with Water Balance or Pictorial Description of Water Flow	Yes

Narrative of Operations:	Please select one:
Raw Materials Defined	Yes
Processes Defined	Yes
Products Defined	Yes

Schematic Diagram:	Please select one:
Points of Waste Origin	Yes
Collection System	Yes
Disposal System	Yes

Post Treatment Quantity and Quality of Effluent:	Please select one:
Flow	Yes
Suspended Solids	Yes
Iron Concentration	Yes
pH	Yes

Description of Waste Treatment Facility:	Please select one:
Pre-Treatment Measures	Yes
Recovery System	Yes
Expected Life of Treatment Basin	Yes
Measures for Ensuring Access to All Treatment Structures and Related Appurtenances including Outfall Locations	Yes
Schedule of Cleaning and/or Abandonment	Yes

Other:	Please select one:
Precipitation/Volume Calculations/Diagram Attached	Yes
BMP Plan for Haul Roads	Yes
Measures for Minimizing Impacts to Adjacent Stream (e.g., Buffer Strips, Berms)	Yes

Other:	Please select one:
Measures for Ensuring Appropriate Setbacks are Maintained at All Times	Yes
Methods for Minimizing Nonpoint Source Discharges	Yes
If Chemical Treatment Used, Methods for Ensuring Appropriate Dosage	No
Facility Closure Plans	Yes
PE Rationale(s) For Alternate Standards, Designs or Plans	No

Identify and provide detailed explanation for any "N" or "N/A" response(s):

There will be no chemical treatment of the effluent
There are no plans for alternate standards, designs or plans at this point.

Pollution Abatement & Prevention (PAP) Plan

Is this a coal mining operation regulated by ASMC?

No

For non-coal mining facilities, has a PAP Plan in accordance with ADEM Admin. Code r. 335-6-9-.03 been completed?

Yes

PAP Plan (non-coal mining facilities)

[NarrativeFinal.pdf - 09/02/2022 11:32 AM](#)

Comment

NONE PROVIDED

Professional Engineer (PE)

Registration License Number

24410

Professional Engineer

Prefix

Mr.

First Name Last Name

James Woodham

Title

Project Manager

Organization Name

Wiser Consultants

Phone Type Number Extension

Mobile 12054102283

Email

jrwoodham@wiserconsultants.com

Address

1349 Greshampark Drive
Apt. 2101
Murfreesboro, TN 37129

Information for the Applicant

Please read the following information and acknowledge below:

Contact the Department prior to submittal with any questions or to request acceptable alternate content/format.

Be advised that you are not authorized to commence regulated activity until this application can be processed, publicly noticed, and approval to proceed is received in writing from the Department.

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

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

The applicant is advised to contact:

- (1) The Alabama Surface Mining Commission (ASMC) if coal, coal fines, coal refuse, or other coal related materials are mined, transloaded, processed, etc.;
- (2) The Alabama Department of Labor (ADOL) if conducting non-coal mining operations;
- (3) The Alabama Historical Commission for requirements related to any potential historic or culturally significant sites;
- (4) The Alabama Department of Conservation and Natural Resources (ADCNR) for requirements related to potential presence of threatened/endangered species;
- (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.

Acknowledgement

I acknowledge I have read and understand the information above.

Additional Attachments

Additional Attachments

[SOUTHEASTERN QUARRY HYDROLOGY.pdf - 09/02/2022 11:35 AM](#)

[SOUTHEASTERN_QUARRY_EXHIBIT C.pdf - 09/02/2022 11:36 AM](#)

[ExhibitsD&E.pdf - 09/02/2022 11:46 AM](#)

Comment

Exhibits C, D & E and Hydrology Report as referred to in PAP

Application Preparer

Application Preparer

Prefix

Mr.

First Name Last Name

Bob Woodham

Title

Project Manager

Organization Name

Wiser Consultants

Phone Type Number Extension

Mobile 6152781500

Email

jrwoodham@wiserconsultants.com

Address

1620 GATEWAY BLVD

STE 201

MURFREESBORO, TN 37129

Fees Assessed

The following itemized fees have been assessed in accordance with Fee Schedule D and 335-1-6-.04(a) of ADEM Admin.

Code Division 1 regulations based on the information provided in this application.

Wet Preparation, Processing, Beneficiation:

6860

Greenfield Site Fee:

1610

Fee

Fee

8470

Attachments

Date	Attachment Name	Context	Confidential?	User
11/2/2022 3:05 PM	Form315DischargeStructure.xlsx	Attachment	No	James Woodham
11/2/2022 2:45 PM	ExhibitBLAKEVIEW_FACILITY MAP.pdf	Attachment	No	James Woodham
11/2/2022 2:33 PM	ExhibitA.pdf	Attachment	No	James Woodham
11/2/2022 12:17 PM	Form313.pdf	Attachment	No	James Woodham
11/2/2022 12:16 PM	Alternatives Analysis.pdf	Attachment	No	James Woodham
11/2/2022 12:16 PM	Form311 - JRW.pdf	Attachment	No	James Woodham
9/2/2022 11:46 AM	ExhibitsD&E.pdf	Attachment	No	James Woodham
9/2/2022 11:36 AM	SOUTHEASTERN_QUARRY_EXHIBIT C.pdf	Attachment	No	James Woodham
9/2/2022 11:35 AM	SOUTHEASTERN QUARRY HYDROLOGY.pdf	Attachment	No	James Woodham
9/2/2022 11:32 AM	NarrativeFinal.pdf	Attachment	No	James Woodham
9/2/2022 11:10 AM	DischargeCharacter2.xlsx	Attachment	No	James Woodham
9/2/2022 11:05 AM	DischargeCharacter.xlsx	Attachment	No	James Woodham
9/2/2022 10:37 AM	SoutheasternSPCC.pdf	Attachment	No	James Woodham

Status History

	User	Processing Status
11/7/2022 2:15:34 PM	James Woodham	Draft
11/17/2022 9:06:42 AM	James Woodham	Signing
11/17/2022 11:12:26 AM	Cyrus Wiser	Submitting
11/17/2022 11:13:10 AM	Cyrus Wiser	Submitted
11/17/2022 11:13:16 AM	Cyrus Wiser	In Process

Audit

Event	Event Description	Event By	Event Date
Submission Locked	Submission Locked	Jasmine White	9/12/2022 10:18 AM
Submission Unlocked	Submission Unlocked	Jasmine White	11/2/2022 10:42 AM
Submission Locked	Submission Locked	Jasmine White	11/7/2022 9:09 AM
Submission Unlocked	Submission Unlocked	Jasmine White	11/7/2022 12:59 PM
Submission Locked	Submission Locked	Jasmine White	12/5/2022 2:37 PM

Revisions

Revision	Revision Date	Revision By
Revision 1	9/2/2022 9:45 AM	James Woodham
Revision 2	11/2/2022 11:10 AM	James Woodham
Revision 3	11/7/2022 2:15 PM	James Woodham

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- I am the owner of the account used to perform the electronic submission and signature.
- I have the authority to submit the data on behalf of the facility I am representing.
- I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

Professional Engineer

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

Signed By James Woodham on 11/17/2022 at 9:06 AM

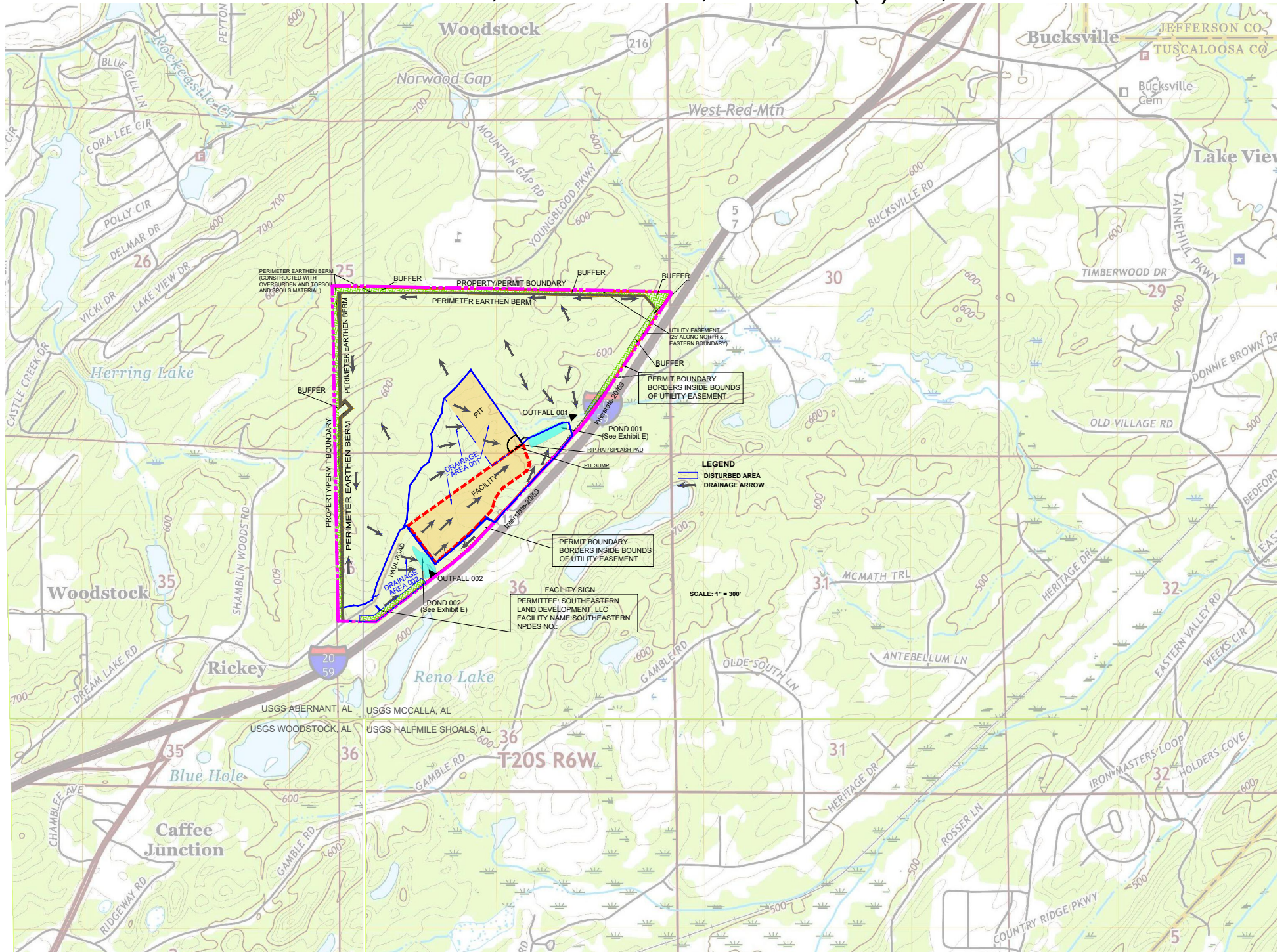
Responsible Official

This application must be signed and initialed by a Responsible Official of the applicant pursuant to ADEM Admin. Code Rule 335-6-6-.09 who has overall responsibility for the operation of the facility. I certify under penalty of law that this document, including technical information and data, the PAP Plan, including any SPCC plan, maps, engineering designs, and all other attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the PE and other person or persons under my supervision who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. A comprehensive PAP Plan to prevent and minimize discharges of pollution to the maximum extent practicable has been prepared at my direction by a PE for this facility utilizing effective, good engineering and pollution control practices and in accordance with the provisions of ADEM Admin. Code Division 335-6, including Chapter 335-6-9 and Appendices A & B, and information contained in this application, including any attachments. I understand that regular inspections must be performed by, or under the direct supervision of, a PE and all appropriate pollution abatement/prevention facilities and structural & nonstructural management practices or Department approved equivalent management practices identified by the PE must be fully implemented prior to and concurrent with commencement of regulated activities and regularly maintained as needed at the facility in accordance with good sediment, erosion, and other pollution control practices and ADEM requirements. I understand that the PAP Plan must be fully implemented and regularly maintained so that discharges of pollutants can reasonably be expected to be effectively minimized to the maximum extent practicable and according to permit discharge limitations and other requirements to ensure protection of groundwater and surface water quality. I understand that failure to fully implement and regularly maintain required management practices for the protection of groundwater and surface water quality may subject the Permittee to appropriate enforcement action. I certify that this form has not been altered, and if copied or reproduced, is consistent in format and identical in content to the ADEM approved form. I further certify that the discharges described in this application have been tested or evaluated for the presence of non-stormwater discharges and any non-mining associated beneficiation/process pollutants and wastewaters have been fully identified. I acknowledge my understanding that if coal, coal fines, coal refuse, or other coal related materials are mined, transloaded, processed, etc., that I may be required to obtain a permit from the ASMC. I acknowledge my understanding that if non-coal, non-limestone materials are mined, transloaded, processed, etc., that I may be required to obtain a permit from the ADOL. I acknowledge my understanding that if the proposed activities will be conducted in or potentially impact waters of the state or waters of the US (including wetlands), that I may be required to obtain a permit from the USACE.

Responsible Official

Signed By Cyrus Wiser on 11/17/2022 at 11:11 AM

EXHIBIT A
TOPOGRAPHICAL MAP
PORTIONS OF USGS QUADRANGLES:
MCCALLA, AL, ABERNANT, AL, WOODSTOCK, AL, AND HALFMILE SHOALS, AL
APPLICANT: SOUTHEASTERN LAND DEVELOPMENT, LLC.
FACILITY NAME: SOUTHEASTERN QUARRY
COUNTY: TUSCALOOSA COUNTY
TOWNSHIP: 20S; RANGE: 06 W; SECTION(S): 25, 36

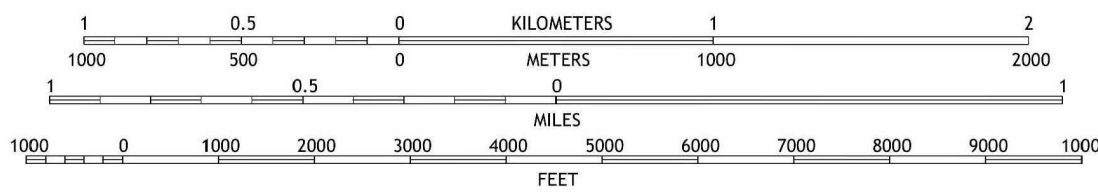


LEGEND

DISTURBED AREA
DRAINAGE ARROW



SCALE 1:24 000



UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
DB
Grid Zone Designation
16S

3°16' MN
 58 MILS GN
 0°6' 2 MILS

CONTOUR INTERVAL 20 FEET
 NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18

1	2	3
4	5	
6	7	8

ADJOINING QUADRANGLES

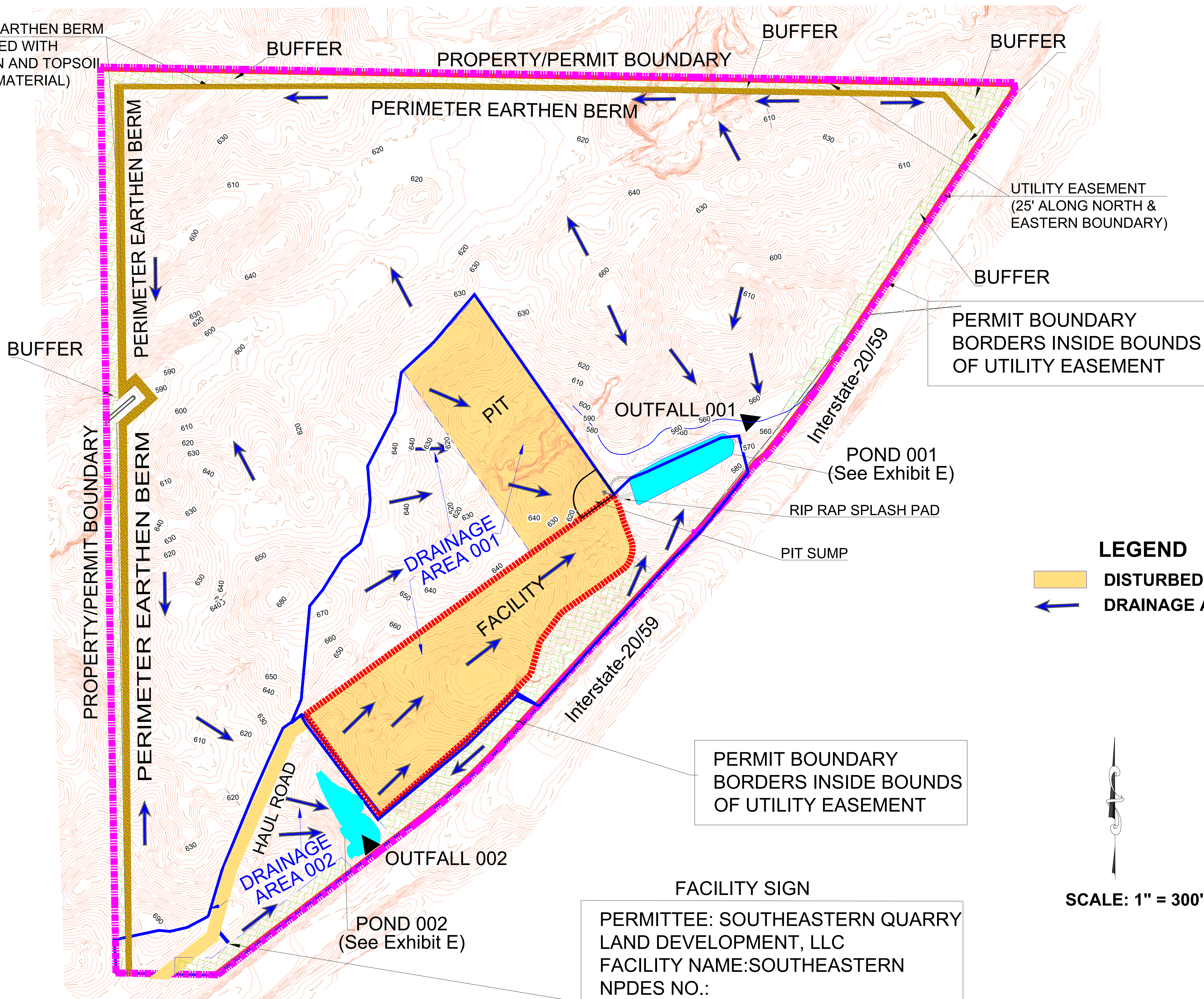
- 1 Brookwood
- 2 Abernant
- 3 McCalla
- 4 Coaling
- 5 Halfmile Shoals
- 6 Pearson
- 7 West Blocton West
- 8 West Blocton East

wiser
 CONSULTANTS

1620 Gateway Blvd., STE 201
 Murfreesboro, Tennessee
 37129

Telephone: (615) 278-1500
 Facsimile: (615) 217-8130
 www.wiserconsultants.com

PERIMETER EARTHEN BERM
(CONSTRUCTED WITH
OVERBURDEN AND TOPSOIL
AND SPOILS MATERIAL)



UTILITY EASEMENT
(25' ALONG NORTH &
EASTERN BOUNDARY)

PERMIT BOUNDARY
BORDERS INSIDE BOUNDS
OF UTILITY EASEMENT

PERMIT BOUNDARY
BORDERS INSIDE BOUNDS
OF UTILITY EASEMENT

FACILITY SIGN
PERMITTEE: SOUTHEASTERN QUARRY
LAND DEVELOPMENT, LLC
FACILITY NAME: SOUTHEASTERN
NPDES NO.:

LEGEND
 DISTURBED AREA
 DRAINAGE ARROW

SCALE: 1" = 300'

NO.	DESCRIPTION	DATE

Wiser
CONSULTANTS
1620 Gateway Blvd., STE 201
Murfreesboro, Tennessee
37129
Telephone: (615) 278-1500
Facsimile: (615) 217-8130
www.wiserconsultants.com

DATE	AUG. 2022
DRAWN BY	ESB
CHECKED BY	JRW
SCALE	1"=300'
PROJECT NO.	22-203
FILE	

FACILITY MAP
SOUTHEASTERN QUARRY
SOUTHEASTERN LAND DEVELOPMENT, LLC.
COUNTY: TUSCALOOSA COUNTY
TOWNSHIP: 20S; RANGE: 06 W; SECTION(S): 25, 36

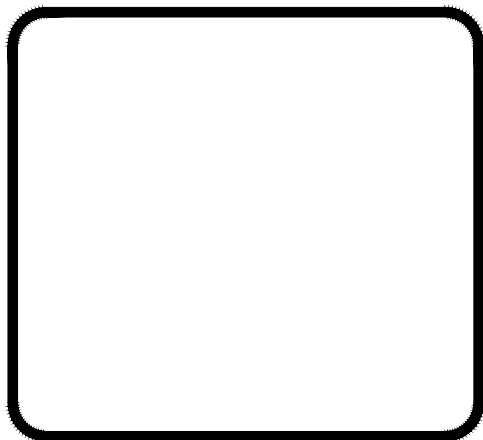


Exhibit
B

EXHIBIT D
SITE SURFACE WATER FLOW - SCHEMATIC DIAGRAM
OUTFALL 001P

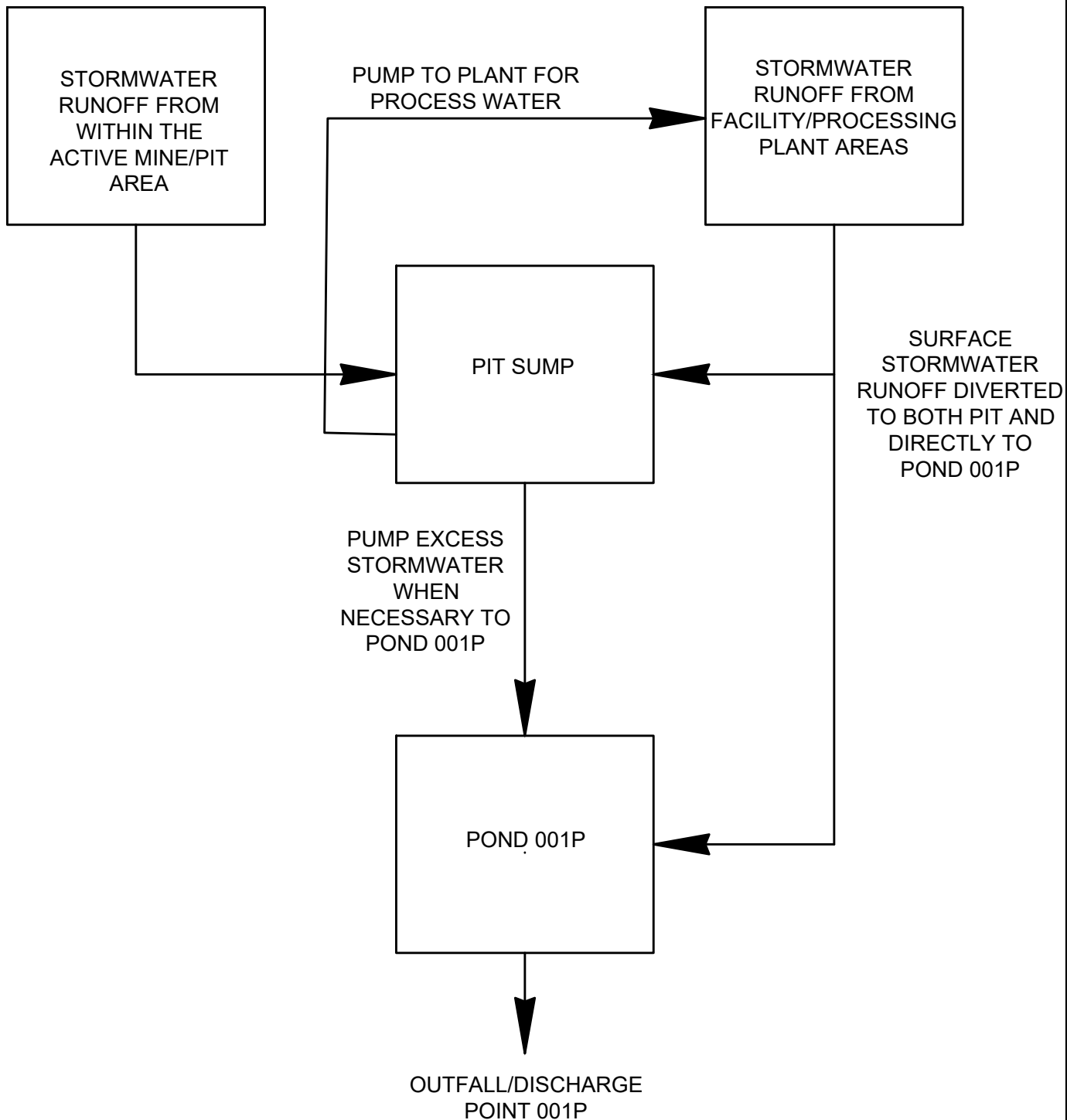


EXHIBIT E
SITE SURFACE WATER FLOW - SCHEMATIC DIAGRAM
OUTFALL 002P

SURFACE
STORMWATER
RUNOFF FROM
ENTRANCE/HALL
ROAD



NATURAL
VEGATATION WATER
CONVEYANCE



POND 002P



OUTFALL/DISCHARGE
POINT 002P

Attachment 1 to Supplementary Form ADEM Form 311

Alternatives Analysis

Applicant/Project: Southeastern Quarry

All new or expanded discharges (except discharges eligible for coverage under general permits) covered by the NPDES permitting program are subject to the provisions of ADEM's antidegradation policy. Applicants for such discharges to Tier 2 waters are required to demonstrate "... that the proposed discharge is necessary for important economic or social development." As a part of this demonstration, the applicant must complete an evaluation of the discharge alternatives listed below, including a calculation of the total annualized project costs for each technically feasible alternative (using ADEM Form 312 for public-sector projects and ADEM Form 313 for private-sector projects). Alternatives with total annualized project costs that are less than 110% of the total annualized project costs for the Tier 2 discharge proposal are considered viable alternatives.

Alternative	Viable	Non-Viable	Comment
1 Land Application		X	See Attachment
2 Pretreatment/Discharge to POTW		X	See Attachment
3 Relocation of Discharge		X	See Attachment
4 Reuse/Recycle	X		See Attachment
5 Process/Treatment Alternatives		X	See Attachment
6 On-site/Sub-surface Disposal		X	See Attachment
<i>(other project-specific alternatives considered by the applicant; attach additional sheets if necessary)</i>			
7			
8			
9			

<p><i>Pursuant to ADEM Administrative Code Rule 335-6-3-.04, I certify on behalf of the applicant that I have completed an evaluation of the discharge alternatives identified above, and reached the conclusions indicated.</i></p>	<p style="text-align: right;">Signature: <u>James Robert Woodham</u></p> <p style="text-align: right;">Date: _____</p>	<p style="text-align: right;">James Robert Woodham <small>Digitally signed by James Robert Woodham Date: 2022.11.02 12:12:52 -0500</small></p> <p style="text-align: right;"><i>(Professional Engineer)</i></p>
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(Supporting documentation to be attached, referenced, or otherwise handled as appropriate.)

Alternatives Analysis

1. Land Application

This alternative was determined to be non-viable due to the following:

- The increased costs associated with the design, construction, operation and maintenance of a pumping and spraying system for land application.
- The long-term feasibility for use of such a system is very doubtful. Over the life of mining operations at the facility the area of the pit will increase, and along with it the quantity of captured stormwater runoff, while the available area for land application will decrease. And, unless the spray fields were located a great distance from the pit, or located in another drainage basin, it is likely that the sprayed water would make its way back to the pit, the pit sump, then returned to one of the sediment ponds to be pumped again.

2. Pretreatment/Discharge to POTW

This alternative was determined to be non-viable due to the lack of an available POTW system within any reasonable distance from the proposed facility. The nearest treatment facility is the Valley Creek Water Reclamation Center approximately 11 miles from the proposed facility.

3. Relocation of Discharge

This alternative was determined to be non-viable since Outfall 001 and Outfall 002 are located at the natural low points within the drainage basin, and the only locations at which surface water exits the property. Additionally, these points coincide with the existing drainage structures constructed along Interstate 20/59 to convey surface drainage beneath the highway.

4. Reuse/Recycle

This alternative is in essence being employed as a part of the stormwater runoff/sediment control design for the facility. The vast majority of stormwater runoff is first directed to the pit/pit sump where it is stored for use as process water and water for wet suppression of particulate matter in the stone crusher plant and used for dust suppression along hall roads and within the active mining areas. Only during periods of major rainfall events will any stormwater runoff be pumped from the pit sump to Pond 001 for treatment and eventual discharge.

5. Process/Treatment Alternatives

All alternatives for the treatment of stormwater runoff, as set forth in the Alabama Handbook for Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas - Volume 1, were carefully considered during the development and design process, and the proposed alternative was determined to be the best for use at this facility.

6. On-site/Subsurface Disposal

This alternative was determined to be non-viable due to the following:

- The costs associated with the study, design, construction, and the long-term operation and maintenance of an underground injection well.
- The additional time and cost associated with acquiring the permits needed for the operation of an underground injection well.
- The danger of the injected water making its way back to the active mining area and possibly destabilizing portions of the rock formations being quarried, or the water's underground migration being altered by blasting operations.

**Calculation of Total Annualized Project Costs
for Private-Sector Projects**

Capital Costs to be Financed (Supplied by applicant)	<u>\$ 144,550 (1)</u>
Interest rate for Financing (Expressed as a decimal)	<u>0.05 (i)</u>
Time Period of Financing (Assume 10 years*)	<u>10 years (n)</u>
Annualization Factor = $\frac{i}{(1+i)^{10} - 1} + i$	<u>0.05 (2)</u>
Annualized Capital Cost [Calculate: (1) x (2)]	<u>\$ 7,225 (3)</u>
Annual Cost of Operation and Maintenance (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement)**	<u>\$ 5,500 (4)</u>
Total Annual Cost of Pollution Control Project [(3) + (4)]	\$ 12,725 (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.

** 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).

Pollution Abatement & Prevention (PAP) Plan

Table of Contents

- I. INTRODUCTION**
- II. PAP CONTENT**
 - a.) Name and Address
 - b.) General Information
 - c.) Topographic Map
 - d.) Diversions
 - e.) Operations
 - f.) Waste Characteristics
 - g.) Waste Treatment Facilities
 - h.) Haul Road Sediment Control
 - i.) Stream Impact Minimization
 - j.) Non-Point Impact Minimization
 - k.) Construction Certification
 - l.) Watershed Classification
- III. LONG TERM STABILIZATION**

I. INTRODUCTION:

The PAP plan is formatted after the outline given in Alabama Department of Environment Management Water Division-Water Quality Program Administrative Code Surface Mining Rules Chapter 335-6-9-.03 (2) (a)-(k). The following outline follows the same items referenced in the above Chapter.

Drawings, as presented in the PAP, were derived from the rules and regulations of the ADEM Administrative Code R. 335-6-9, Appendix A, Appendix B, and from the Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas Manual Volume 1, 2018, published by the Alabama Soil and Water Conservation Committee, as well as other generally accepted design data sources.

II. PAP CONTENT

- (a) Name and address of the operator and a legal description of the area to be mined.

Owner/Operator:
Southeastern Land Development, LLC
1711 Waters Edge Court
Murfreesboro, TN 37130

Legal Description:

Township 20 South, Range 6 West

Section 25: The South half of the Section lying west of Interstate I-59/I-20, except a strip 25.00 feet wide, adjacent and parallel to the half Section line and the western right-of-way boundary of Interstate I-59/I-20.

Section 36: That part of the North half of the Section lying west of Interstate I-59/I-20, except a strip 25.00 feet wide, adjacent and parallel to the western right-of-way boundary of Interstate I-59/I-20.

Containing a total of 406 acres +/-.

- (b) General information, including name and affiliation of company, number of employees, product(s) to be mined, hours of operation, and water supply and disposition.

Name of Company: Southeastern Land Development

Number of Employees: 20

Products to be mined: Construction Aggregates (Limestone, Dolomite)

Hours of operation: 7:00 AM – 6:00 PM Monday-Saturday

Water Supply and Disposition: Surface drainage will be used as process water and any excess water will be treated in Pond 001 prior to discharge. The plans are to use a public water supply when needed on site.

- (c) Topographic map showing location of mine, preparation plant, settling basin and all wastewater discharge points: See Exhibit A.

- (d) Method and plan for diverting surface water runoff from operational areas and mineral and refuse storage piles.

Much of the surface water will be from undisturbed areas 353 (undisturbed acres of 406 total acres) - either naturally vegetated or grassed area. For the 53 initially disturbed acres, the grading will be such to direct the surface water away from the mineral storage piles and any waste piles on site. The plan is to use the refuse material for the perimeter berm (discussed later in this PAP). All surface water will either be treated in the planned pond with BMPs or be used on site.

There are two drainage areas in which the initial operations will be contained. Drainage Area 001 and Drainage Area 002 shown in Exhibit B. All the surface water from Drainage Area 001 discharges through Outfall 001P. Drainage Area 001 is comprised of the disturbed area (48.1 acres) in the initial mining area and the Facility Area. There are also 43.0 acres of undisturbed and naturally vegetated area to remain in its present state through the duration of the first five years of mining operation (Exhibit B). All the surface water from Drainage Area 002 discharges through Outfall 002P. Drainage Area 002 is a total of 25.2 acres. Most of this will remain in its natural state for the first five years of the permit. The only exception is the improved haul road that contains 4.9 acres of disturbed and Pond 002 (Exhibit B).

- (e) Narrative account of operation(s) explaining and/or defining raw materials, processes and products. Block line or schematic diagrams indicating points of waste origin and its collection and disposal shall be included.

See Exhibits D & E for schematic diagrams indicating points of waste origin and its collection and disposal.

Aggregate Limestone/Dolomite is the raw material that will be excavated at this mine. The aggregate will be processed and stockpiled within the permit area. Quarrying operations will begin along the southeastern portion of the active mining area (Exhibits A & B). The initial pit will align in a southeast to northwest direction with advancement to the northwest.

Any overburden on top of the aggregate will be removed and used in the perimeter berm. The aggregate will be excavated in the pit area by drilling, blasting, and use of heavy equipment. Aggregate will be crushed on site with a portable crusher and washed and screened to variable-size crushed stone to be used in the construction industry. The different products will be loaded on trucks and transported to construction industry clients.

The surface water runoff from the disturbed areas of the Facility Area will drain to Pond 001P. The surface drainage from within the mine will collect in a sump area within the pit and then be pumped to the plant to be used as process water. If there is excess water, it will be pumped to the riprap-lined forebay at Pond 001 (Exhibit C).

The only disturbed area in Drainage Area 002 is the improved haul road that runs from Reno Camp Road southwest of the property to the northern corner of the facility area (Exhibit B) and allows ingress/egress between Reno Camp Road and the initial mine operations. The surface drainage from the road will flow into the undisturbed naturally vegetated area to the south of the road and through the naturally vegetated water conveyance, and into Pond 002.

The main waste product will be silt collected in the settling process in treatment of surface water in Ponds 001 and 002 before discharge through the respective outfalls. This silt will be cleaned out when the sediment accumulation approaches 60 percent of the design capacity. This material will be used in the expansion of the berm around the perimeter of the site or spoils area on site. The spoils area will be protected by BMPs and diversion drainage and berms to ensure the spoils will not simply reenter the pond on site.

- (f) Quantity and characteristics of waste after treatment with respect to flow, suspended solids, total iron and pH.

Drainage Area 001 Flow Characteristics:

Flow-Because of the plan of using surface water as process water and the size of the proposed Pond 001, the expectation is for intermittent discharge from Outfall

001. In the event of heavy rainfalls, greater than the 10-Year 24-Hour routed outflow would be 29.8 CFS.

Suspended Solids and Iron-The total suspended solids iron will be minimized as surface water is treated in Pond 001. The TSS and iron of the discharge will comply with the permit limits. The pH will be within the permit parameters.

Drainage Area 002 Flow Characteristics:

Flow-This drainage area will primarily remain the same as in pre-developed conditions. The exception is the improvements to the haul road that runs through this area. The drainage area is presently heavily vegetated. The haul road improvements will remove little of this vegetation as the plan is to improve the existing haul road. Therefore, the flow characteristics will remain essentially as it is presently.

The drainage from the haul road will flow through the existing natural conveyance to Pond 002 and to Outfall 002.

The 10-Year 24-Hour Rain event will produce a routed outflow of 37.47 CFS. There are added BMPs that will minimize the TSS and iron. The TSS, pH, and iron of the discharge will comply with the permit limits.

- (g) Description of waste treatment facilities, pretreatment measures, and recovery systems, including the expected life of sedimentation basins and schedules for cleaning or proper abandonment of such basins. If earthen sedimentation basins are a portion of the treatment scheme, plans for constructing these facilities should meet minimum construction criteria as found in the Guidelines in Appendix A.

The treatment facilities will meet the minimum standards as set forth in the guidelines of Appendix A of the Surface Mining Rules of the ADEM Administrative Code.

Treatment facilities for Drainage Area 001(Exhibit C):

Pond 001 provides treatment for Drainage Area 001. This drainage area is the pit drainage within the drainage area and the Facility Area (Exhibits A & B). The

total drainage area is 91.1. The total disturbed area is 48.1 acres. The purpose of this pond is to provide treatment of surface water from Drainage Area 001 before the water exits Outfall 001. The pond is a rectangular-shaped pond. The approximate dimension of the pond is 660 feet long by 180 feet wide with a depth of 7.0 feet. There is a principal spillway designed to carry the 1-year-24-hour storm event. There is also a riprap-lined emergency spillway 10 feet wide, and 50 feet long designed to carry a 25-year 24-hour storm event.

The volume of the pond is 545,370 cubic feet (approximately 12.5 acre-feet). This is greater than the required criteria set forth in above Administrative Code, Appendix A - 0.25 acre/feet for every acre of disturbed drainage (0.25×48.1 disturbed acres = 12.0 acre-feet: 523,810 cubic feet).

Since there may be times that the pit sump will need to be pumped into Pond 001, the water from the pit sump will be pumped to a designed forebay (riprap pad on the west side of Pond 001). The forebay will dissipate hydraulic energy from the pumping and then drain into Pond 001 for treatment and then discharge to Outfall 001.

The pond is expected to last for the life of the mine. The pond will be cleaned out when the sediment accumulation reaches 60% of the basin volume.

Treatment facilities for Drainage Area 001:
See (h) below.

- (h) A plan to eliminate or minimize sediment and other pollutants from haul roads must be included and should meet minimum design criteria as established by the Guidelines in Appendix B.

Treatment structures for improved haul road within Drainage Area 002 (Exhibit C):

The improved 3-acre haul road is the only disturbed area within this 22.5-acre drainage area. The treatment configuration will consist of the naturally vegetated water conveyance between the road and proposed Pond 002. The area between the haul road and Pond 002 is heavily vegetated and will remain in that condition. This natural filter is the best treatment for water that runs off the haul road.

The pond's volume is 118,700 cubic feet (approximately 2.7 acre-feet). This is greater than the criteria set forth in above Administrative Code, Appendix A - 0.25 acre/feet for every acre of disturbed drainage (0.25×4.95 disturbed acres = 1.24 acre-feet: 53,906 cubic feet).

- (i) Location of all streams in or adjacent to the mining area and those measures which will be taken to minimize the impact on water quality when the mining operation is located near such streams. Such measures may include but not be limited to setbacks, buffer strips, or screens.

There is a 50 buffer around the stream on site. The sediment control structures previously described are designed to minimize the impact on the water quality of this stream.

- (j) Those measures to be employed to minimize the effect of any non-point source pollution which may be generated as a result of the surface mining operation.

There is a perimeter berm to be built around the permitted area (Exhibit B). This will be built with overburden from the initial mining site.

Because of the design of the site and the perimeter berm around the site, there is virtually no non-point source discharge. Any such discharge will be treated using best management practices.

- (k) All pollution abatement facilities must be certified by the design engineer as being constructed in accordance with the approved plans.

The proposed Pond 001 Pond 002 and all pollution abatement facilities will be certified by the design engineer once constructed.

- (l) The applicant shall specify if the proposed mining operation is to be constructed in the watershed of an impoundment classified as a public water supply or a direct tributary thereon.

The mining operation is not constructed in the watershed of a public water supply or a direct tributary thereof.

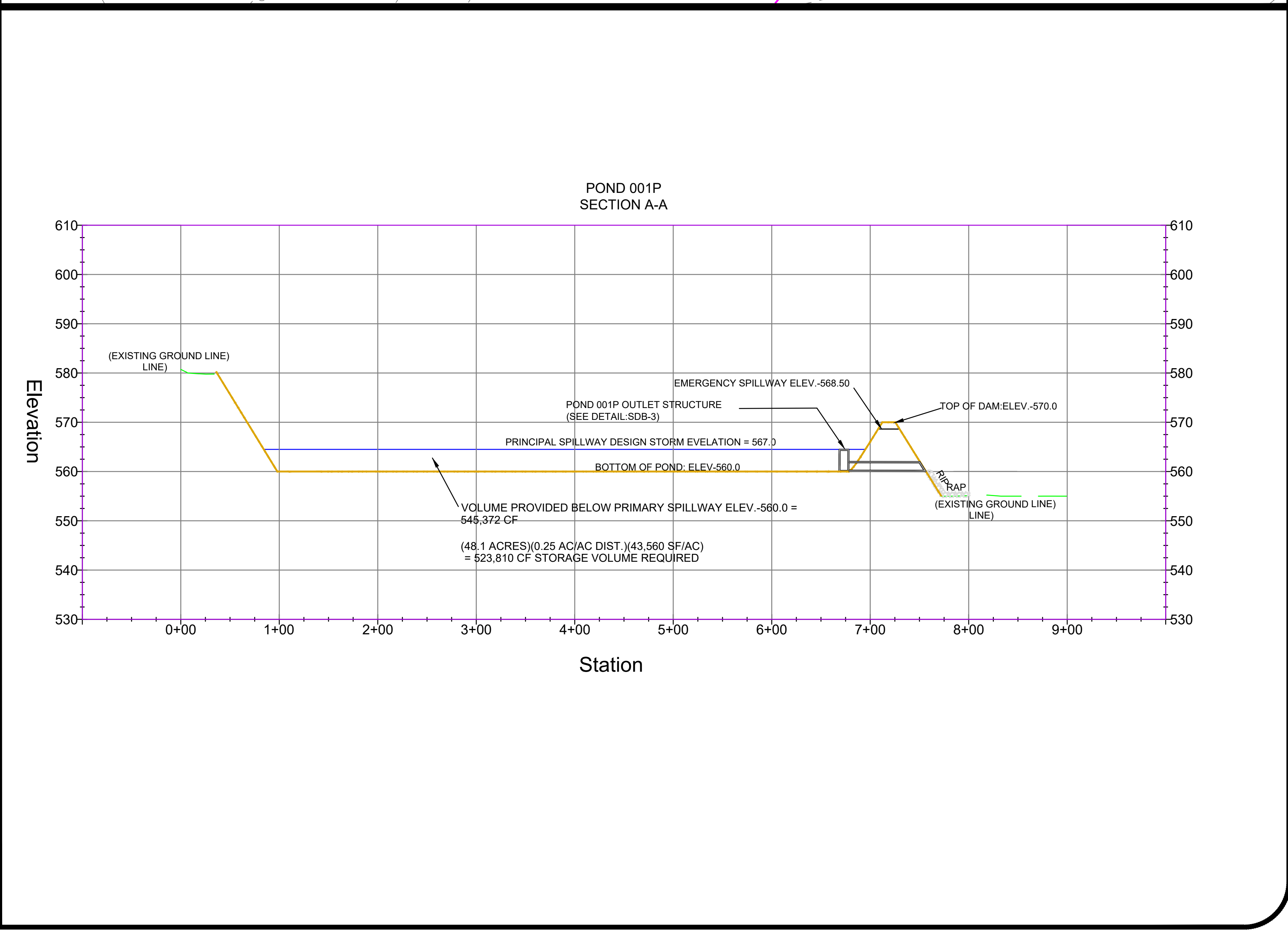
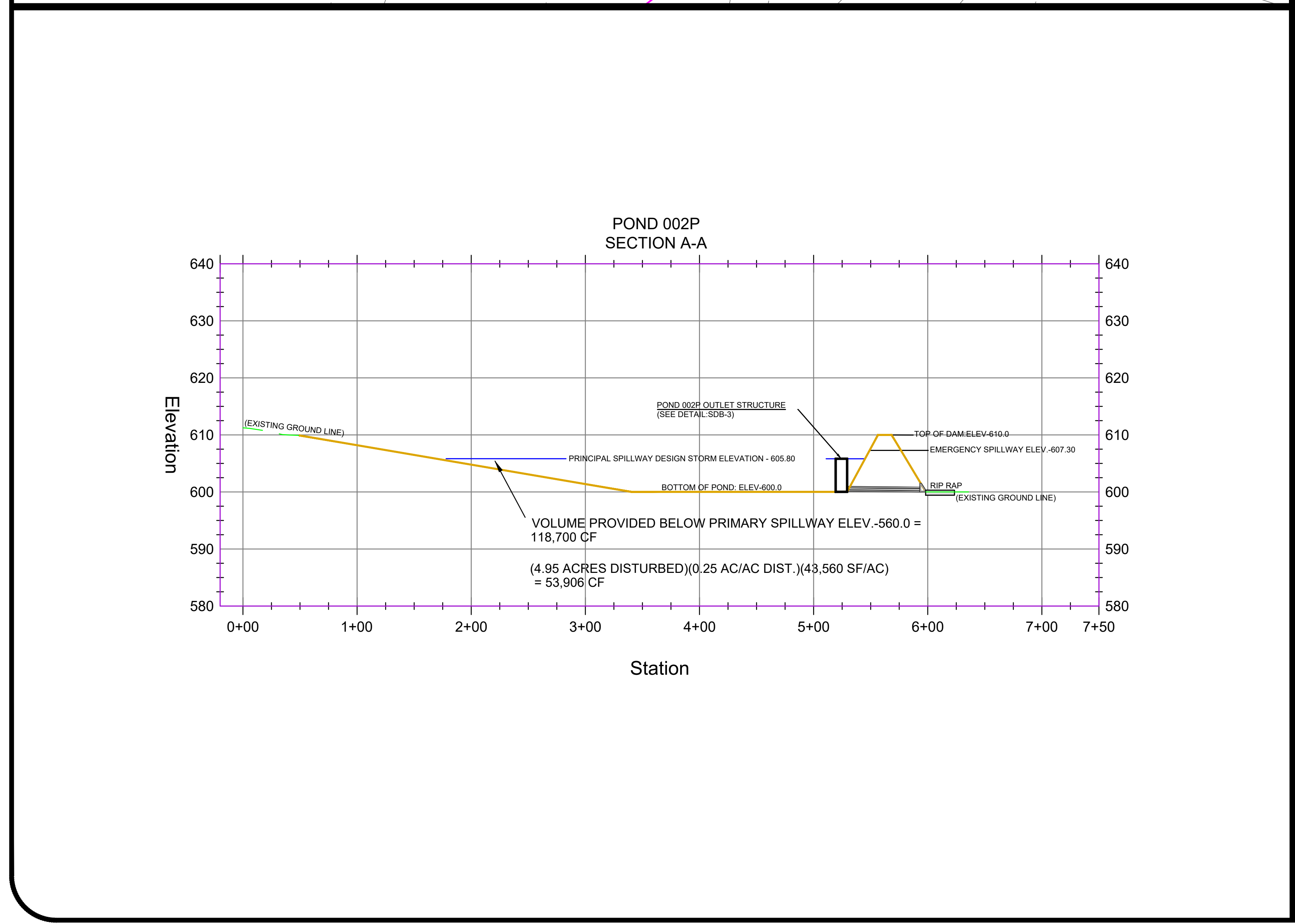
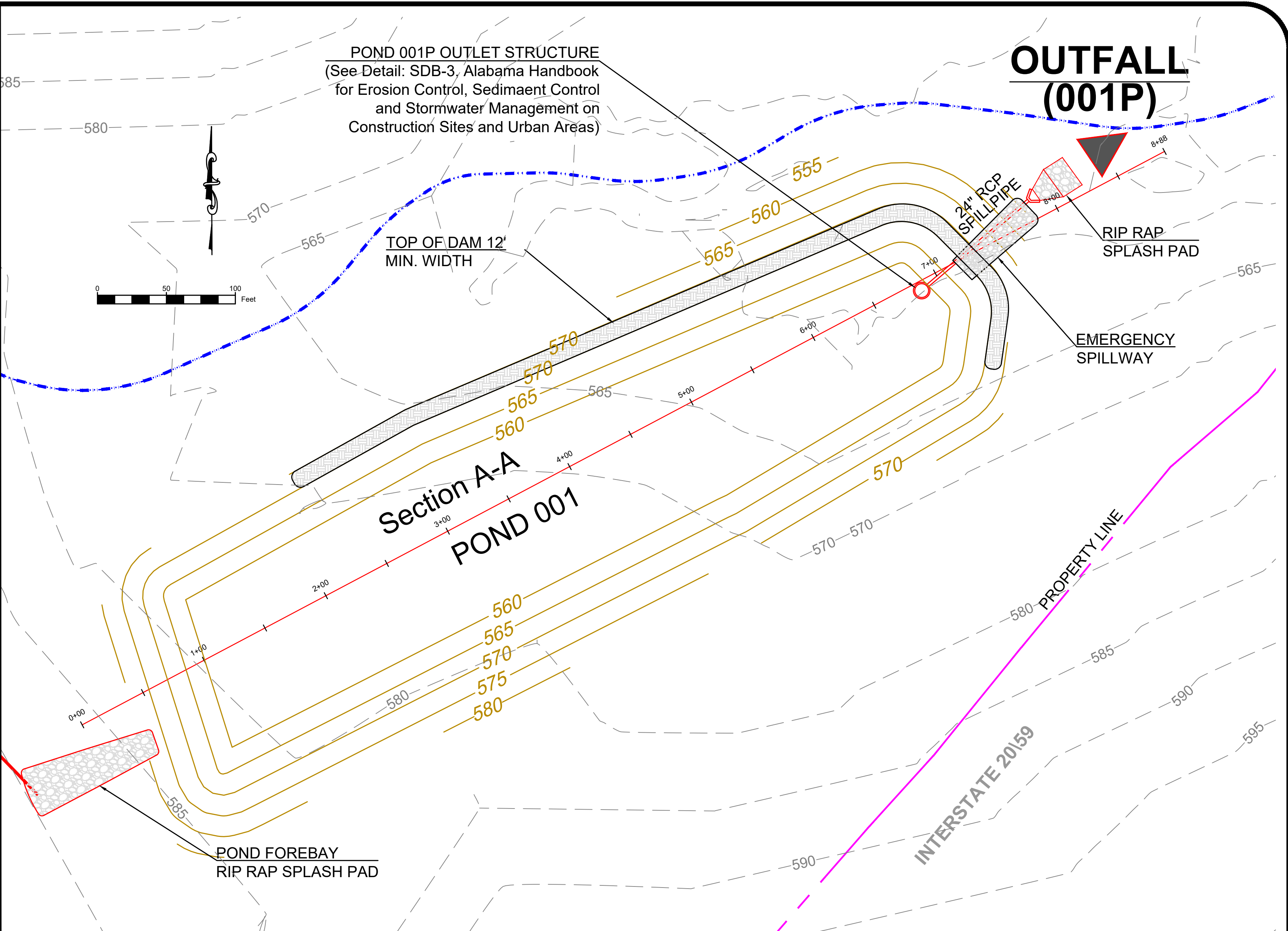
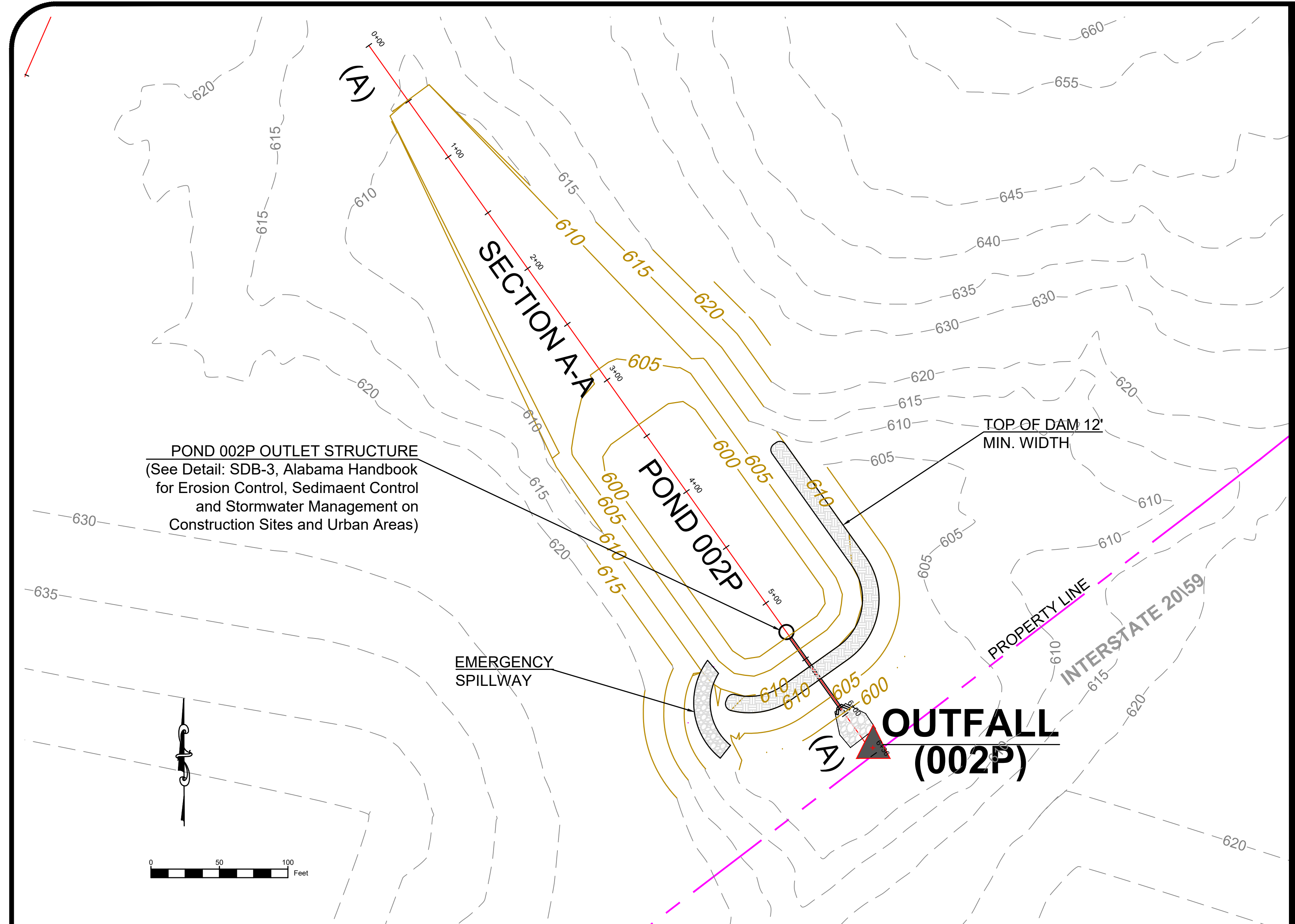
III. Long-Term Stabilization/Grading and Permanent Reclamation or Water Quality Remediation Plans

Upon abandonment operator will remove its stockpiles and equipment from the site. Sedimentation Pond 001 & Pond 002 will remain fully functional. All other yard areas and the pit will remain intact. A blend of the following hydroseed ratios at a rate of 2 pounds per 100 square feet is to be used on all bare areas as follows:

Seeding	Rate
Sericea Lespedeza	80%
Weeping Lovegrass	5%
Annual Lespedeza	15%

The seeding shall be used on all bare soil areas and any unstablized embankments to achieve a permanent stand of grass. Topsoil is to be place at a minimum depth of 6 inches. A ratio of 10-10-10 fertilizer is to be applied at a rate of 23 pounds per 1000 square feet, and straw mulch is to be applied to a ¼” depth. Baled hay or straw erosion checks or silt fence is used until stabilization occurs.

Drainage will continue with the proposed patterns of drainage to sedimentation Ponds 001 & 002 or to the pit. This includes all stockpile and yard areas. No runoff is allowed to leave the site from disturbed areas without passing through a sediment removal process. The pit is to become a lake. Precaution to warn the public of the abandoned site will include signage indicated, “**No Trespassing**” and “**Danger –Abandoned Pit Site**”. Boulders will be used to block the pit haul road and natural reforestation will occur.



NO.	DESCRIPTION	DATE

wiser
CONSULTANTS

1620 Gateway Blvd., STE 201
Murfreesboro, Tennessee
37129

Telephone: (615) 278-1500
Facsimile: (615) 217-8130
www.wiserconsultants.com

DATE	JUNE, 2022
DRAWN BY	ESB
CHECKED BY	JRW
SCALE	1"=40'
PROJECT NO.	22-203
FILE	

STORM DRAINAGE DATA/DETAILS

SOUTHEASTERN QUARRY

SOUTHEASTERN LAND DEVELOPMENT, LLC.

COUNTY: TUSCALOOSA COUNTY

TOWNSHIP: 20S; RANGE: 06 W; SECTION(S): 25, 36

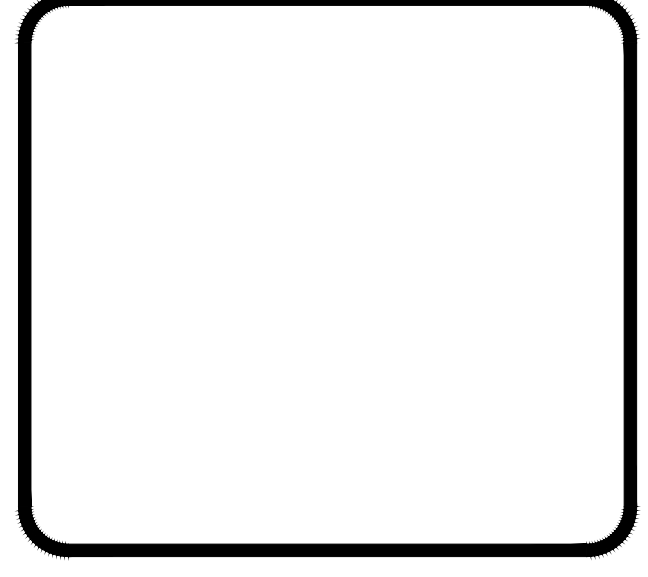


EXHIBIT
C

Hydrograph Return Period Recap

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
2	SCS Runoff	-----	1.745	4.636	-----	-----	33.80	74.04	-----	-----	BASIN 001P
3	SCS Runoff	-----	50.94	71.08	-----	-----	160.47	239.92	-----	-----	BASIN 001P POST CONST.
4	SCS Runoff	-----	0.164	0.440	-----	-----	4.377	10.75	-----	-----	BASIN 002P
5	SCS Runoff	-----	29.86	40.50	-----	-----	86.84	127.44	-----	-----	BASIN 002P POST CONST
7	Reservoir	3	0.749	2.109	-----	-----	29.80	55.77	-----	-----	BASIN 001P ROUTED
8	Reservoir	5	0.970	3.964	-----	-----	37.47	82.40	-----	-----	BASIN 002P ROUTED

TR55 Tc Worksheet

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Hyd. No. 2

BASIN (OUTFALL 001P)

<u>Description</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>Totals</u>
Sheet Flow				
Manning's n-value	= 0.400	0.400	0.011	
Flow length (ft)	= 300.0	0.0	0.0	
Two-year 24-hr precip. (in)	= 4.12	0.00	0.00	
Land slope (%)	= 5.90	0.00	0.00	
Travel Time (min)	= 29.57	+ 0.00	+ 0.00	= 29.57
Shallow Concentrated Flow				
Flow length (ft)	= 775.00	1175.00	380.00	
Watercourse slope (%)	= 4.65	2.80	3.23	
Surface description	= Unpaved	Unpaved	Unpaved	
Average velocity (ft/s)	=3.48	2.70	2.90	
Travel Time (min)	= 3.71	+ 7.25	+ 2.18	= 13.15
Channel Flow				
X sectional flow area (sqft)	= 0.00	0.00	0.00	
Wetted perimeter (ft)	= 0.00	0.00	0.00	
Channel slope (%)	= 0.00	0.00	0.00	
Manning's n-value	= 0.015	0.015	0.015	
Velocity (ft/s)	=0.00	0.00	0.00	
Flow length (ft)	{{0}}0.0	0.0	0.0	
Travel Time (min)	= 0.00	+ 0.00	+ 0.00	= 0.00
Total Travel Time, Tc				42.70 min

TR55 Tc Worksheet

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Hyd. No. 3

BASIN (001P -POST
CONSTRUCTION)

<u>Description</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>Totals</u>
Sheet Flow				
Manning's n-value	= 0.240	0.011	0.011	
Flow length (ft)	= 300.0	0.0	0.0	
Two-year 24-hr precip. (in)	= 4.12	0.00	0.00	
Land slope (%)	= 5.25	0.00	0.00	
Travel Time (min)	= 20.59	+ 0.00	+ 0.00	= 20.59
Shallow Concentrated Flow				
Flow length (ft)	= 200.00	1950.00	0.00	
Watercourse slope (%)	= 8.50	2.50	0.00	
Surface description	= Unpaved	Unpaved	Unpaved	
Average velocity (ft/s)	=4.70	2.55	0.00	
Travel Time (min)	= 0.71	+ 12.74	+ 0.00	= 13.45
Channel Flow				
X sectional flow area (sqft)	= 0.00	0.00	0.00	
Wetted perimeter (ft)	= 0.00	0.00	0.00	
Channel slope (%)	= 0.00	0.00	0.00	
Manning's n-value	= 0.015	0.015	0.015	
Velocity (ft/s)	=0.00	0.00	0.00	
Flow length (ft)	{{0}}0.0	0.0	0.0	
Travel Time (min)	= 0.00	+ 0.00	+ 0.00	= 0.00
Total Travel Time, Tc				34.00 min

TR55 Tc Worksheet

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Hyd. No. 4

BASIN (OUTFALL 002P)

<u>Description</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>Totals</u>
Sheet Flow				
Manning's n-value	= 0.400	0.400	0.400	
Flow length (ft)	= 100.0	60.0	140.0	
Two-year 24-hr precip. (in)	= 4.12	4.12	4.12	
Land slope (%)	= 1.00	7.40	4.50	
Travel Time (min)	= 24.97	+ 7.45	+ 17.91	= 50.33
Shallow Concentrated Flow				
Flow length (ft)	= 180.00	815.00	65.00	
Watercourse slope (%)	= 4.50	6.50	27.50	
Surface description	= Unpaved	Unpaved	Unpaved	
Average velocity (ft/s)	=3.42	4.11	8.46	
Travel Time (min)	= 0.88	+ 3.30	+ 0.13	= 4.31
Channel Flow				
X sectional flow area (sqft)	= 0.00	0.00	0.00	
Wetted perimeter (ft)	= 0.00	0.00	0.00	
Channel slope (%)	= 0.00	0.00	0.00	
Manning's n-value	= 0.015	0.015	0.015	
Velocity (ft/s)	=0.00	0.00	0.00	
Flow length (ft)	{{0}}0.0	0.0	0.0	
Travel Time (min)	= 0.00	+ 0.00	+ 0.00	= 0.00
Total Travel Time, Tc				54.60 min

TR55 Tc Worksheet

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Hyd. No. 5

BASIN (002P-POST
CONSTRUCTION)

	<u>A</u>		<u>B</u>		<u>C</u>		<u>Totals</u>
<u>Description</u>							
Sheet Flow							
Manning's n-value	= 0.400		0.011		0.011		
Flow length (ft)	= 300.0		0.0		0.0		
Two-year 24-hr precip. (in)	= 4.12		0.00		0.00		
Land slope (%)	= 5.50		0.00		0.00		
Travel Time (min)	= 30.41	+	0.00	+	0.00	=	30.41
Shallow Concentrated Flow							
Flow length (ft)	= 300.00		400.00		430.00		
Watercourse slope (%)	= 8.00		6.00		3.50		
Surface description	= Unpaved		Unpaved		Unpaved		
Average velocity (ft/s)	=4.56		3.95		3.02		
Travel Time (min)	= 1.10	+	1.69	+	2.37	=	5.16
Channel Flow							
X sectional flow area (sqft)	= 0.00		0.00		0.00		
Wetted perimeter (ft)	= 0.00		0.00		0.00		
Channel slope (%)	= 0.00		0.00		0.00		
Manning's n-value	= 0.015		0.015		0.015		
Velocity (ft/s)	=0.00		0.00		0.00		
Flow length (ft)	{{0}}0.0		0.0		0.0		
Travel Time (min)	= 0.00	+	0.00	+	0.00	=	0.00
Total Travel Time, Tc							35.60 min

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
2	SCS Runoff	1.745	2	786	44,857	-----	-----	-----	BASIN 001P
3	SCS Runoff	50.94	2	736	278,887	-----	-----	-----	BASIN 001P POST CONST.
4	SCS Runoff	0.164	2	936	5,707	-----	-----	-----	BASIN 002P
5	SCS Runoff	29.86	2	736	155,752	-----	-----	-----	BASIN 002P POST CONST
7	Reservoir	0.749	2	1470	184,782	3	563.53	248,868	BASIN 001P ROUTED
8	Reservoir	0.970	2	1450	154,810	5	605.73	115,154	BASIN 002P ROUTED

BASIN 001P
EXISTING CONDITIONS

Hydrograph type	=	SCS Runoff	Peak discharge	=	1.745 cfs
Storm frequency	=	1 yrs	Time to peak	=	786 min
Time interval	=	2 min	Hyd. volume	=	44,857 cuft
Drainage area	=	92.810 ac	Curve number	=	46*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	42.70 min
Total precip.	=	3.66 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(37.550 \times 30) + (44.450 \times 55) + (4.740 \times 59) + (6.070 \times 74)] / 92.810$

BASIN 001P POST CONSTRUCTION

Hydrograph type	=	SCS Runoff	Peak discharge	=	50.94 cfs
Storm frequency	=	1 yrs	Time to peak	=	736 min
Time interval	=	2 min	Hyd. volume	=	278,887 cuft
Drainage area	=	92.800 ac	Curve number	=	65*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.00 min
Total precip.	=	3.66 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(18.670 \times 90) + (9.970 \times 86) + (11.710 \times 77) + (6.110 \times 74) + (6.240 \times 59) + (40.100 \times 45)] / 92.80$

BASIN 002P EXISTING
CONDITIONS

Hydrograph type	=	SCS Runoff	Peak discharge	=	0.164 cfs
Storm frequency	=	1 yrs	Time to peak	=	936 min
Time interval	=	2 min	Hyd. volume	=	5,707 cuft
Drainage area	=	22.200 ac	Curve number	=	43*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	54.60 min
Total precip.	=	3.66 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(12.850 \times 30) + (5.550 \times 55) + (1.700 \times 59) + (2.100 \times 74)] / 22.200$

BASIN 002P POST CONSTRUCTION

Hydrograph type	=	SCS Runoff	Peak discharge	=	29.86 cfs
Storm frequency	=	1 yrs	Time to peak	=	736 min
Time interval	=	2 min	Hyd. volume	=	155,752 cuft
Drainage area	=	46.100 ac	Curve number	=	67*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	35.60 min
Total precip.	=	3.66 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(3.100 \times 86) + (19.550 \times 74) + (14.570 \times 59) + (5.380 \times 45) + (3.500 \times 77)] / 46.100$

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
2	SCS Runoff	4.636	2	764	79,061	-----	-----	-----	BASIN 001P
3	SCS Runoff	71.08	2	736	365,939	-----	-----	-----	BASIN 001P POST CONST.
4	SCS Runoff	0.440	2	804	11,719	-----	-----	-----	BASIN 002P
5	SCS Runoff	40.50	2	736	201,719	-----	-----	-----	BASIN 002P POST CONST
7	Reservoir	2.109	2	1454	225,899	3	564.48	324,615	BASIN 001P ROUTED
8	Reservoir	3.964	2	864	200,732	5	605.86	118,341	BASIN 002P ROUTED

BASIN 001P

EXISTING CONDITIONS

Hydrograph type	=	SCS Runoff	Peak discharge	=	4.636 cfs
Storm frequency	=	2 yrs	Time to peak	=	764 min
Time interval	=	2 min	Hyd. volume	=	79,061 cuft
Drainage area	=	92.810 ac	Curve number	=	46*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	42.70 min
Total precip.	=	4.12 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(37.550 \times 30) + (44.450 \times 55) + (4.740 \times 59) + (6.070 \times 74)] / 92.810$

BASIN 001P POST CONSTRUCTION

Hydrograph type	=	SCS Runoff	Peak discharge	=	71.08 cfs
Storm frequency	=	2 yrs	Time to peak	=	736 min
Time interval	=	2 min	Hyd. volume	=	365,939 cuft
Drainage area	=	92.800 ac	Curve number	=	65*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.00 min
Total precip.	=	4.12 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(18.670 \times 90) + (9.970 \times 86) + (11.710 \times 77) + (6.110 \times 74) + (6.240 \times 59) + (40.100 \times 45)] / 92.800$

BASIN 002P
EXISTING
CONDITIONS

Hydrograph type	= SCS Runoff	Peak discharge	= 0.440 cfs
Storm frequency	= 2 yrs	Time to peak	= 804 min
Time interval	= 2 min	Hyd. volume	= 11,719 cuft
Drainage area	= 22.200 ac	Curve number	= 43*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 54.60 min
Total precip.	= 4.12 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

* Composite (Area/CN) = [(12.850 x 30) + (5.550 x 55) + (1.700 x 59) + (2.100 x 74)] / 22.200

BASIN 002P POST CONSTRUCTION

Hydrograph type	= SCS Runoff	Peak discharge	= 40.50 cfs
Storm frequency	= 2 yrs	Time to peak	= 736 min
Time interval	= 2 min	Hyd. volume	= 201,719 cuft
Drainage area	= 46.100 ac	Curve number	= 67*
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 35.60 min
Total precip.	= 4.12 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
2	SCS Runoff	33.80	2	744	277,885	-----	-----	-----	BASIN 001P
3	SCS Runoff	160.47	2	736	754,144	-----	-----	-----	BASIN 001P POST CONST.
4	SCS Runoff	4.377	2	760	50,521	-----	-----	-----	BASIN 002P
5	SCS Runoff	86.84	2	736	403,656	-----	-----	-----	BASIN 002P POST CONST
7	Reservoir	29.80	2	782	612,192	3	565.07	373,804	BASIN 001P ROUTED
8	Reservoir	37.47	2	762	402,658	5	607.16	153,776	BASIN 002P ROUTED

BASIN 001P EXISTING
CONDITIONS

Hydrograph type	=	SCS Runoff	Peak discharge	=	33.80 cfs
Storm frequency	=	10 yrs	Time to peak	=	744 min
Time interval	=	2 min	Hyd. volume	=	277,885 cuft
Drainage area	=	92.810 ac	Curve number	=	46*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	42.70 min
Total precip.	=	5.88 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(37.550 \times 30) + (44.450 \times 55) + (4.740 \times 59) + (6.070 \times 74)] / 92.810$

BASIN 001P POST CONSTRUCTION

Hydrograph type	=	SCS Runoff	Peak discharge	=	160.47 cfs
Storm frequency	=	10 yrs	Time to peak	=	736 min
Time interval	=	2 min	Hyd. volume	=	754,144 cuft
Drainage area	=	92.800 ac	Curve number	=	65*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.00 min
Total precip.	=	5.88 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(18.670 \times 90) + (9.970 \times 86) + (11.710 \times 77) + (6.110 \times 74) + (6.240 \times 59) + (40.100 \times 45)] / 92.800$

BASIN 002P EXISTING
CONDITIONS

Hydrograph type	=	SCS Runoff	Peak discharge	=	4.377 cfs
Storm frequency	=	10 yrs	Time to peak	=	760 min
Time interval	=	2 min	Hyd. volume	=	50,521 cuft
Drainage area	=	22.200 ac	Curve number	=	43*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	54.60 min
Total precip.	=	5.88 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(12.850 \times 30) + (5.550 \times 55) + (1.700 \times 59) + (2.100 \times 74)] / 22.200$

BASIN 002P POST CONSTRUCTION

Hydrograph type	=	SCS Runoff	Peak discharge	=	86.84 cfs
Storm frequency	=	10 yrs	Time to peak	=	736 min
Time interval	=	2 min	Hyd. volume	=	403,656 cuft
Drainage area	=	46.100 ac	Curve number	=	67*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	35.60 min
Total precip.	=	5.88 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(3.100 \times 86) + (19.550 \times 74) + (14.570 \times 59) + (5.380 \times 45) + (3.500 \times 77)] / 46.100$

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2023

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
2	SCS Runoff	74.04	2	742	494,597	-----	-----	-----	BASIN 001P
3	SCS Runoff	239.92	2	736	1,103,272	-----	-----	-----	BASIN 001P POST CONST.
4	SCS Runoff	10.75	2	752	95,439	-----	-----	-----	BASIN 002P
5	SCS Runoff	127.44	2	736	582,945	-----	-----	-----	BASIN 002P POST CONST
7	Reservoir	55.77	2	770	961,065	3	566.82	528,532	BASIN 001P ROUTED
8	Reservoir	82.40	2	752	581,941	5	608.50	193,370	BASIN 002P ROUTED

BASIN 001P EXISTING
CONDITIONS

Hydrograph type	=	SCS Runoff	Peak discharge	=	74.04 cfs
Storm frequency	=	25 yrs	Time to peak	=	742 min
Time interval	=	2 min	Hyd. volume	=	494,597 cuft
Drainage area	=	92.810 ac	Curve number	=	46*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	42.70 min
Total precip.	=	7.27 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(37.550 \times 30) + (44.450 \times 55) + (4.740 \times 59) + (6.070 \times 74)] / 92.810$

BASIN 001P POST CONSTRUCTION

Hydrograph type	=	SCS Runoff	Peak discharge	=	239.92 cfs
Storm frequency	=	25 yrs	Time to peak	=	736 min
Time interval	=	2 min	Hyd. volume	=	1,103,272 cuft
Drainage area	=	92.800 ac	Curve number	=	65*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	34.00 min
Total precip.	=	7.27 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(18.670 \times 90) + (9.970 \times 86) + (11.710 \times 77) + (6.110 \times 74) + (6.240 \times 59) + (40.100 \times 45)] / 92.800$

BASIN 002P EXISTING
CONDITIONS

Hydrograph type	=	SCS Runoff	Peak discharge	=	10.75 cfs
Storm frequency	=	25 yrs	Time to peak	=	752 min
Time interval	=	2 min	Hyd. volume	=	95,439 cuft
Drainage area	=	22.200 ac	Curve number	=	43*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	54.60 min
Total precip.	=	7.27 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(12.850 \times 30) + (5.550 \times 55) + (1.700 \times 59) + (2.100 \times 74)] / 22.200$

BASIN 002P POST CONSTR

Hydrograph type	=	SCS Runoff	Peak discharge	=	127.44 cfs
Storm frequency	=	25 yrs	Time to peak	=	736 min
Time interval	=	2 min	Hyd. volume	=	582,945 cuft
Drainage area	=	46.100 ac	Curve number	=	67*
Basin Slope	=	0.0 %	Hydraulic length	=	0 ft
Tc method	=	TR55	Time of conc. (Tc)	=	35.60 min
Total precip.	=	7.27 in	Distribution	=	Type II
Storm duration	=	24 hrs	Shape factor	=	484

* Composite (Area/CN) = $[(3.100 \times 86) + (19.550 \times 74) + (14.570 \times 59) + (5.380 \times 45) + (3.500 \times 77)] / 46.100$

Pond No. 3 - POND 002P

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 600.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	600.00	14,950	0	0
2.00	602.00	18,560	33,442	33,442
4.00	604.00	21,985	40,493	73,934
6.00	606.00	25,703	47,635	121,569
8.00	608.00	29,714	55,363	176,932
10.00	610.00	35,912	65,522	242,454

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 24.00	4.00	0.00	0.00
Span (in)	= 24.00	4.00	0.00	0.00
No. Barrels	= 1	1	0	0
Invert El. (ft)	= 600.00	600.00	0.00	0.00
Length (ft)	= 60.00	0.00	0.00	0.00
Slope (%)	= 1.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 31.40	12.00	0.00	0.00
Crest El. (ft)	= 605.80	607.30	0.00	0.00
Weir Coeff.	= 3.33	2.60	3.33	3.33
Weir Type	= 1	Broad	---	---
Multi-Stage	= Yes	No	No	No
Exfil.(in/hr)	= 0.000	(by Wet area)		
TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	600.00	0.00	0.00	---	---	0.00	0.00	---	---	---	---	0.000
2.00	33,442	602.00	0.56 ic	0.55 ic	---	---	0.00	0.00	---	---	---	---	0.549
4.00	73,934	604.00	0.84 ic	0.80 ic	---	---	0.00	0.00	---	---	---	---	0.801
6.00	121,569	606.00	10.29 ic	0.89 ic	---	---	9.35	0.00	---	---	---	---	10.25
8.00	176,932	608.00	40.00 ic	0.03 ic	---	---	39.83 s	18.27	---	---	---	---	58.13
10.00	242,454	610.00	45.37 ic	0.01 ic	---	---	44.17 s	138.42	---	---	---	---	182.61

Pond No. 2 - POND 001P

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Begining Elevation = 560.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	560.00	62,755	0	0
2.00	562.00	71,056	133,712	133,712
4.00	564.00	79,610	150,570	284,282
6.00	566.00	88,388	167,905	452,186
8.00	568.00	97,405	185,702	637,888
10.00	570.00	106,651	203,966	841,854

Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 24.00	4.00	0.00	0.00
Span (in)	= 24.00	4.00	0.00	0.00
No. Barrels	= 1	1	1	0
Invert El. (ft)	= 560.00	560.00	0.00	0.00
Length (ft)	= 60.00	0.00	0.00	0.00
Slope (%)	= 1.50	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	Yes	Yes	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 30.14	10.00	0.00	0.00
Crest El. (ft)	= 567.00	568.50	0.00	0.00
Weir Coeff.	= 3.33	2.60	3.33	3.33
Weir Type	= 1	Broad	---	---
Multi-Stage	= Yes	No	No	No
Exfil.(in/hr)	= 0.000 (by Wet area)			
TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	560.00	0.00	0.00	---	---	0.00	0.00	---	---	---	---	0.000
2.00	133,712	562.00	0.56 ic	0.55 ic	---	---	0.00	0.00	---	---	---	---	0.549
4.00	284,282	564.00	0.84 ic	0.80 ic	---	---	0.00	0.00	---	---	---	---	0.801
6.00	452,186	566.00	1.01 ic	0.99 ic	---	---	0.00	0.00	---	---	---	---	0.994
8.00	637,888	568.00	39.84 ic	0.10 ic	---	---	39.73 s	0.00	---	---	---	---	39.84
10.00	841,854	570.00	45.37 ic	0.02 ic	---	---	45.30 s	47.77	---	---	---	---	93.09

**SPILL PREVENTION CONTROL AND
COUNTERMEASURE PLAN**

FOR

**Southeastern
Southeastern Land Development
Tuscaloosa County, ALABAMA**

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN FOR TARRANT QUARRY

Location: Township 20S, Range 6W, Sections 25 & 36

Name and Address of President: Cyrus Wiser
1711 Waters Edge Court
Murfreesboro, TN 37130
(615) 278-2480

Name and Address of Facility Contact: Bob Woodham
1620 Gateway Blvd., STE 201
Murfreesboro, TN 37129
(615) 228-1500

1. This is a new and therefore facility and has never experienced a reportable spill from fuel tanks.
2. This plan provides for the containment of a 1000-gallon diesel tank and a 1,000-gallon oil tank comprised of two 500-gallon compartments. A concrete block wall encloses the area around the tanks.
3. The containment structures will be in an area that is not subject to periodic flooding.
4. The nearest surface water of the State is a small stream that is within the drainage basin of Mud Creek. This stream is approximately 1500' from the fuel storage facility.
5. The block wall will be sealed with an impervious coating around the tank area. There is a two-inch pipe with a manual gate valve, which will allow rainwater to be discharged when necessary. The valve will remain closed at all times and will be locked until the blocked area collects enough rainwater to require draining. After an inspection of the water to determine if any pollutants are present, the valve will be opened to allow the proper drainage and will then be immediately closed again and relocked. If pollutants (oil) are present in the rainwater, the pollutants will be separated from the water prior to draining the water. A valid permit will then be acquired, and the pollutants will be carried to the nearest permitted landfill for disposal.
6. If a spill occurs, the usable fuel oil within the blocked area would be immediately pumped into tanker truck for transporting to another storage tank. The unusable fuel oil and the polluted should in the area, if there is any, will be excavated and hauled to the nearest permitted landfill for disposal.
7. The Superintendent shall maintain a written record of any spill, which occurs, the action taken to dispose of all spilled material, and the cleanup procedures used.

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 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.
10. Potential sources of spills consist of the following:

A. Source: Tank or tank valve rupture

Prevention: Properly maintain the tank and keep it in good condition. Visually inspect tank periodically for leaks and tank foundation for cracks and unusual settling.

B. Source: Tank overflow

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 be aware truck is in the area unloading fuel.

C. Source: 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.

11. In the event of a reportable quantity spill, immediately call:

The National Response Center
1-800-424-8802

Alabama Department of Environmental Management (ADEM) 1-334-271-7700 (After Hours-Birmingham Field Office 1-205-942-6168)

The following information shall be reported:

- A. Name, address, and telephone number of person reporting spill.
- B. Exact location of facility and spill.
- C. Company name, number, and location.
- D. Material spilled.
- E. Estimated quantity of material spilled.

- F. Source of spill.
- G. Cause of spill.
- H. Nearest down-stream body of water to receive spill.
- I. Request actions to take for containment and clean up.