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Montgomery, Alabama 36130-1463
(334) 271-7700 ▪ FAX (334) 271-7950

April 29, 2025

Mr. Charles Hamner
General Manager
Warrior Met Coal Gas, LLC
12031 Lake Nicol Rd
Tuscaloosa, AL 35406

RE: Draft Permit
South Deerlick Creek
NPDES Permit Number AL0049760
Tuscaloosa County (125)

Dear Mr. Hamner:

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 reissue 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,

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

WDM/jlw File: DPER/9504

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
U.S. Army Corps of Engineers Mobile District
U.S. Army Corps of Engineers Nashville District

Birmingham Office
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Office
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)

Coastal Office
1615 South Broad Street
Mobile, AL 36605
(251) 450-3400
(251) 479-2593 (FAX)

ADEM
Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: Warrior Met Coal Gas, LLC
16243 Highway 216
Brookwood, AL 35444

FACILITY LOCATION: South Deerlick Creek
12031 Lake Nicol Road
Tuscaloosa, AL 35406
Tuscaloosa County
T20S, R9W, Sections 13, 14, 21-28, and 33-36

PERMIT NUMBER: AL0049760

DSN & RECEIVING STREAM: 001-1 Black Warrior River

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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

Coalbed Methane Exploration, Production, and Associated Areas

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PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

Produced and/or Process Wastewater 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.	-------	9.0 s.u.	Grab	2/Month
Oil & Grease 00556	-------	-------	15.0 mg/L	Grab	2/Month
Chloride, Dissolved in Water 00941	-------	Report mg/L	Report mg/L	Grab	2/Month
Iron, Total (As Fe) 01045	-------	3.0 mg/L	6.0 mg/L	Grab	1/Month
Manganese, Total (As Mn) 01055	-------	2.0 mg/L	4.0 mg/L	Grab	1/Month
Flow, In Conduit or Thru Treatment Plant[2] 50050	-------	Report MGD	Report MGD	Totalizer	1/Day
Toxicity, Ceriodaphnia Acute[3] 61425	-------	-------	0 pass(0)/fail(1)	24 hour Composite	1/Quarter[4]
Toxicity, Pimephales Acute[3] 61427	-------	-------	0 pass(0)/fail(1)	24 hour Composite	1/Quarter[4]

1. See Part I.F.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.
3. See Part IV.B. for Effluent Toxicity Limitations and Biomonitoring Requirements for Acute Toxicity.
4. See Part IV.B.2.d. regarding Effluent Toxicity monitoring frequency reduction.

B. REQUIREMENTS TO ACTIVATE A PROPOSED 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.

2. Certification required by Part I.B.1. shall be submitted on a completed ADEM Form 433. 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 Parts I.F. and I.G. 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. RECEIVING STREAM 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 required to monitor the receiving stream for 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. The receiving stream shall be monitored by the Permittee downstream of the discharge at the edge of the Zone of Initial Dilution (ZID) as specified below:

Parameter	Discharge Limitations			Monitoring Requirements	
	Daily Minimum	Monthly Average	Daily Maximum	Sample Type	Measurement Frequency[5]
Specific Conductance 00095	-------	Report µS/cm	Report µS/cm	Grab	1/Quarter
pH 00400	Report s.u.	-------	Report s.u.	Grab	1/Quarter
Chloride, Dissolved in Water 00941	-------	Report mg/L	Report mg/L	Grab	1/Quarter

D. STORMWATER DISCHARGE MONITORING AND INSPECTION REQUIREMENTS

1. Stormwater Discharge 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 stormwater associated with the construction and operation of the facility provided that:

a. The Permittee prepares, implements, and maintains a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 and Part II.A.2.d. of this Permit.

[5] See Part I.F.2. for further measurement frequency requirements.

b. Best Management Practices (BMPs) be used to prevent pollution of stormwater from construction and operation of the facility. The BMPs shall, at a minimum, meet the requirements of Part II.A.2.b.

c. Stormwater discharge(s) shall have no sheen, and there shall be no discharge of visible oil, floating solids, or visible foam in other than trace amounts.

2. Stormwater Inspection Requirements

a. Complete and comprehensive inspections of a minimum of four percent (4%) of all wellpads, pipeline right-of-ways, treatment ponds, compressor stations, other facilities and related appurtenances, etc. covered by this Permit, including all BMPs implemented, by a professional engineer, registered in the State of Alabama or personnel under his direct supervision shall be performed every month until expiration of coverage under this Permit. The Permittee shall inspect different or additional 4% increments until all facilities (100%) have been inspected prior to repeating inspections.

b. Inspections shall be performed as often as is necessary to determine if, and ensure that, appropriate BMPs have been fully implemented and properly maintained and that stormwater runoff from the facility complies with limitations pursuant to Part I.D. of this Permit.

3. Recording of Results

For each inspection taken pursuant to the requirements of Part I.D.2. of this Permit, the Permittee shall record on a Department approved form the following information:

a. The NPDES#, facility name, and location, source identifier (wellpad, compressor station, pipeline, etc.), and source location;

b. The name(s) of person(s) who performed the inspection;

c. The date and time the inspection was performed;

d. Any deficiencies noted during the inspection, any corrective action or mitigation needed to correct the deficiencies, and a proposed compliance schedule for deficiencies noted as requiring significant maintenance not to exceed 14 days, unless approved in writing by the Department.

4. Reporting of Inspection and Monitoring Requirements

a. Inspection Summary Reports (Form 343) for stormwater discharges shall be submitted to the Director or his designee:

(1) By July 28 of each year for all inspections and monitoring performed during the preceding 12 month period ending on the last day of the month of June.

(2) With any Noncompliance Notification Form submitted pursuant to Part I.G.2. of this Permit.

b. Results of all inspections and monitoring shall be summarized on an appropriate form approved by the Department, and shall be available for inspection no later than 21 days following the date of the inspection or monitoring. Reports must be legible and bear original signature(s). Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this Permit.

E. LAND APPLICATION OF TEMPORARY PIT WASTEWATERS

1. Administrative and Reporting Requirements

a. Notwithstanding any other provisions of this Permit, one-time land application of temporary pit wastewater in conjunction with pit closure from any pit which is associated with any drilling, wellpad construction, well stimulation, collecting, land application, transport, treatment, storage, discharge, or other facility(s) and associated appurtenances for each development or production field or permitted area whose waste stream or produced water is authorized by this Permit is prohibited unless conducted or operated in accordance with all provisions of this Permit, Departmental regulations and good engineering practices.

With the exception of a one-time land application of pit wastewater in conjunction with pit closure, land application of produced water and other wastewaters generated during drilling, well stimulation, well completion, and well development is not authorized.

b. The Permittee shall prepare and submit to the Department a comprehensive, detailed operations management plan for **ONE-TIME** land application of pit wastewater in conjunction with pit closure. As a minimum, this plan must address the types of equipment utilized, application rates and procedures, and site preparation and revegetation. Application of wastewater for dust suppression or other purposes on private or public roadways, access roads, trails, or other areas must also be addressed.

c. The plan shall be prepared and certified by a professional engineer, registered in the State of Alabama.

d. The Permittee shall notify the Department at least **48 hours** prior to beginning land application. The Permittee shall re-notify the Department if land application operations are not completed within **7 days** of the initial 48 hour notification. The Permittee must report the field name, county name, wellpad number, township-range-section, nearest surface stream, and the anticipated time of application.

e. The Permittee shall complete and make available for inspection at the facility office, or at a Department-approved alternate location, the appropriate Department-approved **Land Application Certification**. The Permittee shall submit such certification(s) as required to the Department - Attn. Chief, Mining and Natural Resource Section, Water Division - within **14** days of completion of land application operations for each pit which is associated with any drilling, well stimulation, construction, collecting, transport, treatment, storage, discharge, or other facility(s) and associated appurtenances for each development or production field or permitted area whose waste stream or produced water discharge is authorized by this Permit.

(1) The certification form must be complete and correct. Forms that contain missing or incomplete responses are not acceptable. The certification must be signed by a registered professional engineer, registered in the State of Alabama, along with the registration number and stamped with the professional seal. In addition, the certification must be signed by a Responsible Corporate Official (RCO) of the level of vice-president or above with the authority to prevent and abate possible violations. The RCO may designate an employee such as a project manager with environmental experience who is familiar with the plan to sign the certification

form as an agent of the RCO. The RCO must notify the ADEM in writing with the name of the designated employee.

(2) The certification shall contain at a minimum the name of the Permittee, field name, NPDES number, county, wellpad name and number, latitude and longitude, township-range-section to the nearest 1/4 section, nearest surface receiving stream, pH (s.u.), TDS (mg/l), and the date and the name of the Department representative that was notified.

(3) In addition the certification shall contain the following statement:

"Based upon the inspections of (dates and times) _____ performed prior to and during land application of pit wastewater from the pit(s) located at the site referenced above, which I or personnel under my direct supervision (list:_____) conducted, I certify that each land application site and all application equipment was in accordance with the land application procedures plan filed with the Department, that the pumped pit wastewater did not contain visible, floating material or oil & grease, and that all application procedures and operations were conducted in accordance with the above-referenced NPDES permit and ADEM regulations.

I further certify that no unauthorized discharge to surface or ground waters has occurred as a result of these activities."

f. The Permittee shall **IMMEDIATELY** notify the Department upon learning of any possible or probable discharge to State waters resulting from land application or any other activities associated with coalbed methane operations.

2. **Technical Requirements**

a. Approval of a land application plan assumes that a relatively small volume of wastewater will be disposed of and, due to the small quantity involved, groundwater quality will be unaffected. Land application of pit sludge, solids or other wastes is prohibited.

b. Only wastewater having a total dissolved solids concentration (TDS) of 2,000 mg/l or less and a pH between 6.0 and 9.0 standard units may be land applied. Wastewater must be free of visible, floating solids or oil and grease. The Permittee must ensure that **ONLY** wastewater is land applied and that all solids and sediments remain in the pit. It may be necessary to filter the wastewater during land application to ensure compliance. Land application **MUST** cease immediately if at any time the applied effluent does not comply or will not comply, if application continues, with the minimum standards as stated above.

c. Wastewater must be uniformly applied over an area of sufficient expanse and at such a rate to prevent runoff of applied wastewater. Wastewater may be land applied **ONLY** to areas that wastewater has not previously been applied, unless re-application is specifically authorized in writing by the Department.

d. Application of wastewater is prohibited during rain events or when the soil is saturated or sufficiently moist as to prevent percolation of all wastewater applied.

e. Wastewater shall not be applied in such a manner that natural vegetation is discolored, killed, or otherwise adversely impacted. If the natural vegetation is adversely impacted, the Permittee shall ensure that the application area is revegetated to pre-spray conditions.

f. Wastewater shall not be applied on severe slopes, near sink holes, near natural drainage courses, near streams or other water bodies, nor in any other manner that will allow runoff of the wastewater from the application area.

g. The Permittee shall maintain a record of the results of the tests performed prior to land application to include the date the sample was collected, the name of the person performing the analysis, method of analysis, the date that the analysis was performed, the last date on which any substance was placed in the pit, the date that the wastewater was land applied, the amount of wastewater applied, and the location of the area on which the pit wastewater was land applied. This record shall be signed by the appropriate representative of the Permittee and retained for a period of at least three years after pit closure. Land application records shall be made available on request to the Department.

h. In recognition that land application is site specific in nature the Department reserves the right to require the operator to provide additional information or implement added measures in addition to the above described minimum standards to ensure compliance with this Permit, State law, and Departmental regulations.

3. Prohibitions

Unless specifically authorized elsewhere in this Permit, Part I.E. of this Permit does not authorize the Permittee to land apply produced water from coalbed methane production operations.

F. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Sampling Schedule and Frequency

a. The Permittee shall collect samples of the discharge from each constructed and certified point source identified on Page 1 of this Permit and described more fully in the Permittee's application, at the frequency specified in Part I.A. Analysis of the samples shall be conducted for the parameters specified in Part I.A.

b. The Permittee may increase the frequency of sampling listed in Parts I.F.1.a; 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 Parts I.A. and I.C. 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, and are no less than seven days apart. However, if discharges occur only during one seven-day period in a month, then two days per month shall mean sample collection on any two days during that seven-day period.

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 Parts I.A. and I.C. 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 twelve (12) month period following the effective date of this Permit and is then required to monitor once during each calendar 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.F.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 certified 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.A. 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, 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 in accordance with Part I.F.9.a. 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.

G. 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.G.1.c. or d., the Permittee shall submit all DMRs required by Part I.G.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.G.1.i.

e. If the Permittee, using approved analytical methods as specified in Part I.F.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.G.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.G.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 or contributes to an exceedance of an in-stream water quality standard or causes or contributes to an exceedance of the EPA suggested chronic criteria for total chlorides of 230 mg/L at the downstream edge of the regulatory mixing zone and, when the discharge is mixed with the receiving stream by a high rate diffuser, the EPA suggested acute criteria for total chlorides of 860 mg/L at the downstream edge of the zone of initial dilution;

(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.G.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.G.2.c. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Part I.G.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.G.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.pddf) 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 noncompliance and to prevent its recurrence.

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

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 modify, reduce, suspend, or terminate the monitoring and/or reporting required by this Permit upon the submission of a written request for such modification, reduction, suspension, or termination by the Permittee, supported by sufficient data as provided in applicable sections of this Permit.

b. It remains the responsibility of the Permittee to comply with the monitoring and reporting requirements of this Permit until written authorization to modify, reduce, suspend, or terminate such monitoring and/or reporting is received by the Permittee from the Director.

H. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. **Well Drilling Notification Requirements**

Notification shall be provided to the Department at least seven days prior to the commencement of the well drilling phase of construction of each well.

2. **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.

3. **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. This notification shall serve as sufficient cause for instituting procedures for termination of the Permit.

4. **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.

5. **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.

I. 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.

2. Best Management Practices (BMPs)

a. 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.

b. No later than ninety (90) days after the issuance date of this Permit, the Permittee shall prepare, submit to the Department, and implement a Best Management Practices (BMPs) Plan that addresses the control of all nonpoint source pollution that is or may be associated with the Permittee's operations. These BMP plans should be based on best available technology, and include, but not be limited to, containment of any or all process liquids or solids in a manner such that these materials do not present a potential for discharge; stormwater runoff associated with wellpad construction and maintenance, roads, borrow pits less than 5 acres in size, and dirt or other material stockpiles; and water, wastewater, and other fluids acquisition operations that is or may be associated with the Permittee's operations. Protection and preservation of all surface waters onsite should be discussed, including (but not limited to) stream crossing(s), access roads, and other construction activities adjacent to waters of the State. When submitted, the BMP Plan shall become a part of this Permit and all requirements of the BMP Plan shall become requirements of this Permit. The BMPs shall include at a minimum:

(1) Plans to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with this Permit and water quality standards;

(2) Plans to prevent the spillage or loss of any fluids, oil, grease, etc. and thereby prevent the contamination of stormwater from these substances;

(3) Plans to provide for the disposal of all used oils, hydraulic fluids, solvent degreasing materials, etc. in accordance with good management practices and any applicable state or federal regulations;

(4) Plans to prevent or minimize stormwater contact with any pollutants present at the facility;

(5) Descriptions of stormwater volume and velocity controls within the site to minimize soil erosion;

(6) Plans to minimize the amount of soil exposed during construction activity through the use of project phasing or other appropriate techniques;

(7) Plans to minimize the disturbance of steep slopes, unless infeasible;

(8) Plans to minimize sediment discharges from the site;
(9) Plans to minimize the generation of dust;

(10) Descriptions of construction entrance and exit stabilization to minimize off-site tracking of sediment from vehicles;

(11) Plans to minimize soil compaction and, unless infeasible, preserve topsoil;

(12) If applicable, the location and description of each borrow pit, a description of the stormwater discharge controls, and how the borrow pits will be reclaimed or closed in order to remediate any potential adverse impacts on water quality;

(13) If applicable, the exact location of each water, wastewater, and other fluids acquisition site and the method of withdrawal;

(14) If applicable, plans for the protection and preservation of all surface waters at all fluids acquisition sites or other waters which might be impacted, including, but not limited to, rivers, perennial and intermittent streams, lakes or impoundments, ponded areas, old treatment lagoons and sedimentation basins, dry hollows, subsurface wells, and all areas adjacent to waters of the State that are disturbed during water acquisition.

c. All borrow pits authorized by this permit must at all times total less than five unreclaimed acres, and must be used exclusively by the Permittee for the permitted facility. In addition to the inspections conducted by the Permittee referenced in Part I.D.2., of this Permit, the Permittee must conduct, at a minimum, monthly inspections of the borrow pits. The inspections of the borrow pits may not be used when calculating the monthly 4% increments of the Permitted facility.

d. 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 required by applicable state (ADEM Admin. Code r. 335-6-6-.12 (r)) and federal (40 C.F.R. §§112.1-.7) regulations. The Permittee shall implement appropriate structural and/or non-structural spill prevention, control, and/or management sufficient to prevent any spills of pollutants from entering a ground or surface water of the State or a publicly or privately owned treatment works. Careful consideration should be applied for tanks or containers located near treatment ponds, water bodies, or high traffic areas. In most situations this would require construction of a containment system if the cumulative storage capacity of petroleum products or other pollutants at the facility is greater than 1320 gallons. 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 applicant shall maintain onsite or have readily available flotation booms to contain, and sufficient material to 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 an approved manner.

3. **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:

(1) Name and general composition of biocide or chemical;

(2) 96-hour median tolerance limit data for organisms representative of the biota of the water(s) which the discharge(s) enter(s);

(3) Quantities to be used;

(4) Frequencies of use;

(5) Proposed discharge concentrations; and

(6) 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.

4. 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(s).

5. 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.

6. 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.

7. **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.2.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

Notwithstanding any other provisions of this Permit, any discharge(s) from any point source(s) from the permitted facility which was not certified to the Department by a professional engineer, registered in the State of Alabama, as being designed, constructed, and able to be operated in accordance with design plans reviewed by the Department, terms and conditions of this Permit, Departmental regulations and good engineering practices, is prohibited until the Permittee submits to the Department, on a form approved by the Department, a certification by a professional engineer certifying that all such facility(s) have been constructed and are able to be operated in accordance with design plans reviewed by the Department, terms and conditions of this Permit, Departmental regulations and good engineering practices.

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(g) 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(g) 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, 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 point 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 is known or there is reason to believe:

1. That any activity has occurred or will occur which would result in the discharge on a routine or frequent basis, of any toxic pollutant which is not limited in this Permit, if that discharge will exceed the highest of the following notification levels:

a. one hundred micrograms per liter;

b. two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dini-trophenol; and one milligram per liter for antimony;

c. five times the maximum concentration value reported for that pollutant in the permit application; or

2. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the Permit, if that discharge will exceed the highest of the following notification levels:

a. five hundred micrograms per liter;

b. one milligram per liter for antimony;

c. ten times the maximum concentration value reported for that pollutant in the permit application.

c. 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 of 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.D.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 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 as 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 subject to penalties and/or imprisonment as provided by the AWPCA and/or the AEMA.

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. Bypass - means the intentional diversion of waste streams from any portion of a treatment facility.

6. 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.

7. Daily maximum - means the highest value of any individual sample result obtained during a day.

8. Daily minimum - means the lowest value of any individual sample result obtained during a day.

9. Day - means any consecutive 24-hour period.

10. Department - means the Alabama Department of Environmental Management.

11. Director - means the Director of the Department or his authorized representative or designee.

12. 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).

13. Discharge monitoring report (DMR) - means the form approved by the Director to accomplish monitoring report requirements of an NPDES permit.

14. 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.

15. EPA - means the United States Environmental Protection Agency.

16. Federal Water Pollution Control Act (FWPCA) - means 33 U.S.C. §§1251 et. seq., as amended.

17. Flow - means the total volume of discharge in a 24-hour period.

18. 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.

19. mg/L - means milligrams per liter of discharge.

20. MGD - means million gallons per day.

21. Mixing Zone - that portion of the receiving waters where mixture of effluents and natural waters take place. Mixing zones must meet the requirements of ADEM Admin. Code r. 335-6-6-.15(10).

22. 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.)

23. New Source - means any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

    a. After promulgation of standards of performance under Section 306 of FWPCA which are applicable to such source; or

    b. 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.

24. Permit application - means forms and additional information that are required by ADEM Admin. Code r. 335-6-6-.08 and applicable permit fees.

25. 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).

26. 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.

27. Pollutant of Concern - means those pollutants for which a water body is listed as impaired or which contribute to the listed impairment.

28. Process Wastewater – means any discharge(s) of water other than stormwater discharges.

29. Produced Water – means all water produced from the dewatering of coal and related seams, not to include flowback from fracturing and cement returns.

30. Receiving Stream - means the "waters" receiving a "discharge" from a "point source".

31. 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.

32. Stimulation - means any process used to clean a well bore, enlarge channels, increase permeability or increase pore spaces in a formation, thus making it possible for formation fluids to move more rapidly and greater distances through the formation, and may include surging, jetting, acidizing, or fracturing.

33. Stimulation fluids - means all fluids used for and associated with the stimulation of coal seams.

34. Stormwater discharges - means any discharges related to storm events or snow melt.

35. Treatment facility and treatment system - means all structures which contain, convey, and as necessary, chemically or physically treat coalbed methane extraction operations process wastewater, produced wastewater, or drainage from associated areas, 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.

36. 24 Hour Composite - means a 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.

37. 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.

38. 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.

39. Week - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.

40. Weekly (7-day and calendar week) Average - 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.

41. Zone of Initial Dilution (ZID) - the area extending from the port openings of a high rate diffuser to the initial edge of the mixing zone where, due to great turbulence, a constant instream waste concentration (IWC) cannot be determined. A ZID must meet the requirements of ADEM Admin. Code r. 335-6-6-.02(ggg)

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 ACTIVIES 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. 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.

4. Discharges of stormwater, process water, produced water, other wastewaters, or other pollutants from exploration, development, production, closure, and associated activities, of hydrocarbons from sources other than coal seams (e.g., conventional oil and natural gas operations) are not authorized by this Permit unless specifically approved in writing by the Director. The Permittee shall submit documentation and must receive approval from the Department prior to inclusion, under this Permit discharges of stormwater, process water, and other wastewaters from any well that has been, or will be converted from conventional oil and gas exploration or other hydrocarbon development, or production operations to coalbed methane operations

PART IV SPECIAL REQUIREMENTS, RESTRICTIONS, AND LIMITATIONS

A. 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. 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.

B. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS FOR ACUTE TOXICITY

Except as provided below, the Permittee shall perform 48-hour acute toxicity screening tests on the discharges required to be tested for acute toxicity in Part I.A. of this Permit.

In addition to the frequency specified in Part I.A. of this Permit, acute toxicity screening tests shall be performed in conjunction with the discharge of each new formulation of stimulation fluid that is discharged through any outfall(s). The testing in conjunction with the discharge of stimulation fluid may coincide with the regularly required testing.

1. **Test Requirements**

   a. The tests shall be performed using effluent diluted, using appropriate control water, to the Instream Waste Concentration (IWC) which is 3% effluent for Outfall 001.

   b. Any test where survival in the effluent concentration is less than 90% and statistically lower than the control indicates acute toxicity and constitutes noncompliance with this Permit.

2. **General Test Requirements**

   a. A 24 hour composite sample shall be obtained for use in the above biomonitoring tests. The holding time for each sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA

821-R-02-012 or most current edition or another control water selected by the Permittee and approved by the Department.

b. Effluent toxicity tests in which the control survival is less than 90% or in which the other requirements of the EPA Test Procedure are not met shall be unacceptable and the Permittee shall rerun the tests as soon as practical within the monitoring period.

c. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are reported with an explanation of the tests performed and results.

d. Should results from four consecutive testing periods indicate that effluent from a point source identified on Page 1 of this Permit does not exhibit acute toxicity, the Permittee may request that the toxicity testing frequency be reduced to semiannual. A reduction in toxicity testing frequency will be allowed only if approved by the Department in writing. The required toxicity testing frequency will revert back to once per quarter under the following conditions:

(1) If effluent from a point source identified on Page 1 of this Permit continues to exhibit acute toxicity in any of the four (4) additional acute toxicity tests following the initial indication of acute toxicity as specified in Part IV.B.4., unless waived in writing by the Department; and

(2) If the characteristics of the effluent from a point source identified on Page 1 of this Permit changes significantly from the effluent which was discharging when the reduction in frequency was approved. Such changes in characteristics may include, but are not limited to, changes in stimulation fluids.

3. Reporting Requirements

a. The Permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).

b. Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. An effluent toxicity report containing the information in Part IV.B.6. shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month in which the tests were performed.

4. Additional Testing Requirements

a. If acute toxicity is indicated (noncompliance with permit limit), the Permittee shall perform four (4) additional valid acute toxicity tests in accordance with these procedures. The toxicity tests shall be performed once per week and shall be performed during the first four calendar weeks after becoming aware of the acute toxicity. The results of these tests shall be submitted no later than 28 days following the month in which the tests were performed. Additional testing sample collection and analysis timeframes may be extended, as necessary, to obtain the samples during discharges.

b. After evaluation of the results of the additional tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The Permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols/guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-92/081, EPA/833/B-99/022 and/or EPA/600/6-91/005F, etc.).

5. Test Methods

The tests shall be performed in accordance with the latest edition of the "EPA Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms" and shall be performed using the fathead minnow (*Pimephales promelas*) and the cladoceran (*Ceriodaphnia dubia*).

6. Effluent Toxicity Testing Reports

The following information shall be submitted with each discharge monitoring report unless otherwise directed by the Department. The Department may at any time suspend or reinstate this requirement or may increase or decrease the frequency of submittals.

a. Introduction

(1) Facility Name, location and county

(2) Permit number

(3) Toxicity testing requirements of permit

(4) Name of receiving water body

(5) Contract laboratory information (if tests are performed under contract)

(i) Name of firm

(ii) Telephone number

(iii) Address

(6) Objective of test

b. Plant Operations

(1) Discharge operating schedule (if other than continuous)

(2) Volume of discharge during sample collection to include Mean daily discharge on sample collection date (MGD, CFS, GPM)

c. Source of Effluent and Dilution Water

(1) Effluent samples

(i) Sampling point

(ii) Sample collection date(s) and time(s)

(iii) Sample collection method

(iv) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)

(v) Sample temperature when received at the laboratory

(vi) Lapsed time from sample collection to delivery

(vii) Lapsed time from sample collection to test initiation

(2) Dilution Water samples

(i) Source

(ii) Collection date(s) and time(s) (where applicable)

(iii) Pretreatment (if applicable)

(iv) Physical and chemical characteristics (pH, hardness, water temperature, alkalinity, specific conductivity, etc.)

d. Test Conditions

(1) Toxicity test method utilized

(2) End point(s) of test

(3) Deviations from referenced method, if any, and reason(s)

(4) Date and time test started

(5) Date and time test terminated

(6) Type and volume of test chambers

(7) Volume of solution per chamber

(8) Number of organisms per test chamber

(9) Number of replicate test chambers per treatment

(10) Test temperature, pH and dissolved oxygen as recommended by the method (to include ranges)

(11) Feeding frequency, and amount and type of food

(12) Light intensity (mean)

e. Test Organisms

(1) Scientific name

(2) Life stage and age

(3) Source

(4) Disease treatment (if applicable)

f. Quality Assurance

(1) Reference toxicant utilized and source

(2) Date and time of most recent acute reference toxicant test(s), raw data, and current cusum chart(s)

(3) Dilution water utilized in reference toxicant test

(4) Results of reference toxicant test(s) (LC50, etc.), report concentration-response relationship and evaluate test sensitivity. The most recent reference toxicant test shall be conducted within 30-days of the routine.

(5) Physical and chemical methods utilized

g. Results

(1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate

(2) Provide table of endpoints: LC50, NOAEC, Pass/Fail (as required in the applicable NPDES permit)

(3) Indicate statistical methods used to calculate endpoints

(4) Provide all physical and chemical data required by method

(5) Results of test(s) (LC50, NOAEC, Pass/Fail, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD)

h. Conclusions and Recommendations

(1) Relationship between test endpoints and permit limits

(2) Action to be taken

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION

NPDES INDIVIDUAL PERMIT RATIONALE

Company Name:	Warrior Met Coal Gas, LLC
Facility Name:	South Deerlick Creek
County:	Tuscaloosa
Permit Number:	AL0049760
Prepared by:	Jasmine White, William McClimans
Date:	April 29, 2025
Receiving Waters:	Black Warrior River
Permit Coverage:	Coalbed Methane Exploration, Production, and Associated Areas
SIC Code:	1311

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

This proposed permit covers produced water from coalbed methane exploration, stormwater, and production which discharge to surface waters of the state.

The proposed permit authorizes treated discharges into the Black Warrior River classified as Swimming and Other Whole Body Water-Contact Sports (S) and Fish & 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 S/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.

The instream water quality standards for pH in streams classified as F&W is 6.0 – 8.5 s.u. per ADEM Admin. Code r. 335-6-10-.09. A discharge limitation for pH of 9.0 s.u. is imposed in this permit because the IWC indicates that enough dilution is considered to be available in-stream to allow for a discharge at 9.0 s.u. without endangering water quality. However, the discharge shall not be allowed to cause the in-stream pH to deviate more than 1.0 s.u. from the normal or natural pH, nor be less than 6.0 s.u., nor greater than 8.5 s.u.

The Instream Waste Concentration (IWC) at the Zone of Initial Dilution (ZID) is 10.8% for Outfall 001-1. This IWC was calculated through a CORMIX model conducted by Department's Water Quality Branch on behalf of the Permittee on December 12, 2024.

Total iron and total manganese limitations are based on Best Professional Judgment (BPJ). These limitations have been used in previous permits and are believed to be adequate to protect water quality.

The oil and grease daily maximum limit of 15 mg/L has been shown to provide a reasonable assurance of compliance with ADEM Admin. Code r. 335-6-10-.06(b) which says "State waters shall be free from floating debris, oil...."

The Department's experience with existing discharges on receiving streams with greater than 100:1 dilution has shown that acute toxicity requirements are more stringent than chronic requirements. This permit proposes discharges from Outfall 001-1 with a flow rate of 0.175 cfs to a receiving stream with a $7Q_{10}$ of 155.3 cfs, resulting in greater than 100:1 dilution. Therefore, acute toxicity testing with two species (Ceriodaphnia dubia and Pimephales promelas) is required using effluent diluted to the IWC at the perimeter of the ZID (ADEM Admin. Code r. 335-6-6-.15(10)(a)). The acute toxicity testing is required once per quarter. In addition, Part IV.B. of the permit requires the Permittee to conduct toxicity testing in conjunction with the discharge of any new stimulation fluids into the waste stream.

Effluent and instream monitoring for dissolved chlorides and instream monitoring for specific conductance will continue be required in order to develop permit limitations in the future if needed to protect water quality.

The applicant has submitted, in accordance with 40 CFR Part 122.21 and their NPDES permit application, a complete EPA Form 2C for Outfall 001-1 as part of this application. The Department completed a reasonable potential analysis (RPA) of the discharge to determine whether or not pollutants in the treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standards, based on the analytical data submitted by the Permittee for Outfall 001. The RPA indicates that there was no reasonable potential for in-stream water quality standards to be exceeded. The Department has also reviewed available data in ALAWADR, ADEM's water quality database, and found nothing to contradict the data submitted by the applicant.

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 water quality standards above numeric or narrative criteria, 40 CFR §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 water quality standards.

Pursuant to ADEM Admin. Code r. 335-6-6-.12(r) this Permit requires the Permittee to prepare, implement, and maintain 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.

A Best Management Practices (BMP) Plan is required for the control of all nonpoint sources of pollution from all areas that are or may be associated with the Permittee's operations. This plan must be based on best available technology and include, but not be limited to, containment of process liquids and solids such that these do not present a potential for discharge; stormwater runoff associated with wellpad construction and maintenance; roads, borrow pits, and dirt or other material stockpiles; and water, wastewater, and other fluids acquisition operations that may be associated with the Permittee's operations. The Permittee is required to inspect a minimum of 4% of its facilities each month to ensure that their BMPs are effective in minimizing pollutants in stormwater runoff and are adequate for compliance with State water quality standards.

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 does not authorize new or increased discharges of pollutants to a Tier II water. Therefore, the Antidegradation Policy (ADEM Admin. Code 335-6-10-.04) does not apply to this permit.

Facility Name: Warrior Met Coal Gas, LLC - South Deerlick Creek (Outfall 001-1)

NPDES No.: AL0049760

$Q_d*C_d + Q_{d2}*C_{d2} + Q_s*C_s = Q_r*C_r$

ID	Pollutant	Carcinogen Yes=	Type	Background from upstream source (C_{d2}) Daily Max	Background from upstream source (C_{d2}) Monthly Avg	Background Instream (C_s) Daily Max	Background Instream (C_s) Monthly Ave	Enter Max Daily Discharge as reported by Applicant (C_d) Max.	Enter Avg Daily Discharge as reported by Applicant (C_d) Ave	Partition Coefficient (Stream / Lake)
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
1	Antimony		Metals	0	0	0	0	0	0	-
2	Arsenic*,**	YES	Metals	0	0	0	0	1.78	1.78	0.574
3	Beryllium		Metals	0	0	0	0	0	0	-
4	Cadmium**		Metals	0	0	0	0	0	0	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0	0	0	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0	0	0	-
7	Copper**		Metals	0	0	0	0	0	0	0.388
8	Lead**		Metals	0	0	0	0	0	0	0.206
9	Mercury**		Metals	0	0	0	0	0	0	0.302
10	Nickel**		Metals	0	0	0	0	0	0	0.505
11	Selenium		Metals	0	0	0	0	5.9	5.9	-
12	Silver		Metals	0	0	0	0	0	0	-
13	Thallium		Metals	0	0	0	0	0	0	-
14	Zinc**		Metals	0	0	0	0	39.25	39.25	0.330
15	Cyanide		Metals	0	0	0	0	0	0	-
16	Total Phenolic Compounds		Metals	0	0	0	0	0	0	-
17	Hardness (As CaCO3)		Metals	0	0	0	0	0	0	-
18	Acrolein		VOC	0	0	0	0	0	0	-
19	Acrylonitrile*	YES	VOC	0	0	0	0	0	0	-
20	Aldrin	YES	VOC	0	0	0	0	0	0	-
21	Benzene*	YES	VOC	0	0	0	0	0	0	-
22	Bromoform*	YES	VOC	0	0	0	0	0	0	-
23	Carbon Tetrachloride*	YES	VOC	0	0	0	0	0	0	-
24	Chlordane	YES	VOC	0	0	0	0	0	0	-
25	Clorobenzene		VOC	0	0	0	0	0	0	-
26	Chlorodibromo-Methane*	YES	VOC	0	0	0	0	0	0	-
27	Chloroethane		VOC	0	0	0	0	0	0	-
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0	-
29	Chloroform*	YES	VOC	0	0	0	0	0	0	-
30	4,4'-DDD	YES	VOC	0	0	0	0	0	0	-
31	4,4'-DDE	YES	VOC	0	0	0	0	0	0	-
32	4,4'-DDT	YES	VOC	0	0	0	0	0	0	-
33	Dichlorobromo-Methane*	YES	VOC	0	0	0	0	0	0	-
34	1, 1-Dichloroethane		VOC	0	0	0	0	0	0	-
35	1, 2-Dichloroethane*	YES	VOC	0	0	0	0	0	0	-
36	Trans-1, 2-Dichloro-Ethylene		VOC	0	0	0	0	0	0	-
37	1, 1-Dichloroethylene*	YES	VOC	0	0	0	0	0	0	-
38	1, 2-Dichloropropane		VOC	0	0	0	0	0	0	-
39	1, 3-Dichloro-Propylene		VOC	0	0	0	0	0	0	-
40	Dieldrin	YES	VOC	0	0	0	0	0	0	-
41	Ethylbenzene		VOC	0	0	0	0	0	0	-
42	Methyl Bromide		VOC	0	0	0	0	0	0	-
43	Methyl Chloride		VOC	0	0	0	0	0	0	-
44	Methylene Chloride*	YES	VOC	0	0	0	0	0	0	-
45	1, 1, 2, 2-Tetrachloro-Ethane*	YES	VOC	0	0	0	0	0	0	-
46	Tetrachloro-Ethylene*	YES	VOC	0	0	0	0	0	0	-
47	Toluene		VOC	0	0	0	0	0	0	-
48	Toxaphene	YES	VOC	0	0	0	0	0	0	-
49	Tributyltine (TBT)	YES	VOC	0	0	0	0	0	0	-
50	1, 1, 1-Trichloroethane		VOC	0	0	0	0	0	0	-
51	1, 1, 2-Trichloroethane*	YES	VOC	0	0	0	0	0	0	-
52	Trichlorethylene*	YES	VOC	0	0	0	0	0	0	-
53	Vinyl Chloride*	YES	VOC	0	0	0	0	0	0	-
54	P-Chloro-M-Cresol		Acids	0	0	0	0	0	0	-
55	2-Chlorophenol		Acids	0	0	0	0	0	0	-
56	2, 4-Dichlorophenol		Acids	0	0	0	0	0	0	-
57	2, 4-Dimethylphenol		Acids	0	0	0	0	0	0	-
58	4, 6-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	-
59	2, 4-Dinitrophenol		Acids	0	0	0	0	0	0	-
60	4,6-Dinitro-2-methylophenol	YES	Acids	0	0	0	0	0	0	-
61	Dioxin (2,3,7,8-TCDD)	YES	Acids	0	0	0	0	0	0	-
62	2-Nitrophenol		Acids	0	0	0	0	0	0	-
63	4-Nitrophenol		Acids	0	0	0	0	0	0	-
64	Pentachlorophenol*	YES	Acids	0	0	0	0	0	0	-
65	Phenol		Acids	0	0	0	0	0	0	-
66	2, 4, 6-Trichlorophenol*	YES	Acids	0	0	0	0	0	0	-
67	Acenaphthene		Bases	0	0	0	0	0	0	-
68	Acenaphthylene		Bases	0	0	0	0	0	0	-
69	Anthrazene		Bases	0	0	0	0	0	0	-
70	Benzidine		Bases	0	0	0	0	0	0	-
71	Benzo(A)Anthracene*	YES	Bases	0	0	0	0	0	0	-
72	Benzo(A)Pyrene*	YES	Bases	0	0	0	0	0	0	-
73	3, 4 Benzo-Fluoranthene		Bases	0	0	0	0	0	0	-
74	Benzo(GHI)Perylene		Bases	0	0	0	0	0	0	-
75	Benzo(K)Fluoranthene		Bases	0	0	0	0	0	0	-
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0	-
77	Bis (2-Chloroethyl)-Ether*	YES	Bases	0	0	0	0	0	0	-
78	Bis (2-Chloroiso-Propyl) Ether		Bases	0	0	0	0	0	0	-
79	Bis (2-Ethylhexyl) Phthalate*	YES	Bases	0	0	0	0	0	0	-
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	-
82	2-Chloronaphthalene		Bases	0	0	0	0	0	0	-
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
84	Chrysene*	YES	Bases	0	0	0	0	0	0	-
85	Di-N-Butyl Phthalate		Bases	0	0	0	0	0	0	-
86	Di-N-Octyl Phthalate		Bases	0	0	0	0	0	0	-
87	Dibenzo (A,H) Anthracene*	YES	Bases	0	0	0	0	0	0	-
88	1, 2-Dichlorobenzene		Bases	0	0	0	0	0	0	-
89	1, 3-Dichlorobenzene		Bases	0	0	0	0	0	0	-
90	1, 4-Dichlorobenzene		Bases	0	0	0	0	0	0	-
91	3, 3-Dichlorobenzidine*	YES	Bases	0	0	0	0	0	0	-
92	Diethyl Phthalate		Bases	0	0	0	0	0	0	-
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0	-
94	2, 4-Dinitrotoluene*	YES	Bases	0	0	0	0	0	0	-
95	2, 6-Dinitrotoluene		Bases	0	0	0	0	0	0	-
96	1,2-Diphenylhydrazine		Bases	0	0	0	0	0	0	-
97	Endosulfan (alpha)	YES	Bases	0	0	0	0	0	0	-
98	Endosulfan (beta)	YES	Bases	0	0	0	0	0	0	-
99	Endosulfan sulfate	YES	Bases	0	0	0	0	0	0	-
100	Endrin	YES	Bases	0	0	0	0	0	0	-
101	Endrin Aldeyhide	YES	Bases	0	0	0	0	0	0	-
102	Fluoranthene		Bases	0	0	0	0	0	0	-
103	Fluorene		Bases	0	0	0	0	0	0	-
104	Heptochlor	YES	Bases	0	0	0	0	0	0	-
105	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0	-
106	Hexachlorobenzene*	YES	Bases	0	0	0	0	0	0	-
107	Hexachlorobutadiene*	YES	Bases	0	0	0	0	0	0	-
108	Hexachlorocyclohexan (alpa)	YES	Bases	0	0	0	0	0	0	-
109	Hexachlorocyclohexan (beta)	YES	Bases	0	0	0	0	0	0	-
110	Hexachlorocyclohexan (gamma)	YES	Bases	0	0	0	0	0	0	-
111	HexachlorocyclоPentadiene		Bases	0	0	0	0	0	0	-
112	Hexachloroethane		Bases	0	0	0	0	0	0	-
113	Indeno(1, 2, 3-CD)Pyrene*	YES	Bases	0	0	0	0	0	0	-
114	Isophorone		Bases	0	0	0	0	0	0	-
115	Naphthalene		Bases	0	0	0	0	0	0	-
116	Nitrobenzene		Bases	0	0	0	0	0	0	-
117	N-Nitrosodi-N-Propylamine*	YES	Bases	0	0	0	0	0	0	-
118	N-Nitrosodi-N-Methylamine*	YES	Bases	0	0	0	0	0	0	-
119	N-Nitrosodi-N-Phenylamine*	YES	Bases	0	0	0	0	0	0	-
120	PCB-1016	YES	Bases	0	0	0	0	0	0	-
121	PCB-1221	YES	Bases	0	0	0	0	0	0	-
122	PCB-1232	YES	Bases	0	0	0	0	0	0	-
123	PCB-1242	YES	Bases	0	0	0	0	0	0	-
124	PCB-1248	YES	Bases	0	0	0	0	0	0	-
125	PCB-1254	YES	Bases	0	0	0	0	0	0	-
126	PCB-1260	YES	Bases	0	0	0	0	0	0	-
127	Phenanthrene		Bases	0	0	0	0	0	0	-
128	Pyrene		Bases	0	0	0	0	0	0	-
129	1, 2, 4-Trichlorobenzene		Bases	0	0	0	0	0	0	-

0.113	Enter Q_d = wastewater discharge flow from facility (MGD)
0.17483688	Q_d = wastewater discharge flow (cfs) (this value is calculated from the MGD)
0	Enter flow from upstream discharge Qd2 = background stream flow in MGD above point of discharge
0	Qd2 = background stream flow from upstream source (cfs)
155.3	Enter 7Q10, Q_s = background stream flow in cfs above point of discharge
116.475	Enter or estimated, 7Q10, Q_s = background stream flow in cfs above point of discharge (7Q10 estimated at 75% of 7Q10)
1193.6	Enter Mean Annual Flow, Q_s = background stream flow in cfs above point of discharge
0	Enter 7Q2. Q_s = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to Left	Enter C_s = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
$Q_s+Qd2+Q_s$	Q_r = resultant in-stream flow, after discharge
Calculated on other	C_r = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
100.00	Enter, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
7.00 s.u.	Enter, Background pH above point of discharge
yes	Enter, is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals)

** Using Partion Coefficients

April 21, 2025

NPDES Individual Permit - Modification/Reissuance - Mining (Form 315)

version 4.6

(Submission #: HQ0-W87N-RJ5Q0, version 1)

Details

Submission ID HQ0-W87N-RJ5Q0

Form Input

General Instructions

NPDES Individual Application - Mining and Coalbed Methane Operations - Mod/Reissuance (Form 315/549)

PLEASE CONTACT YOUR ASSIGNED PERMIT CONTACT TO DISCUSS THE TYPE OF MODIFICATION YOU SHOULD APPLY FOR BEFORE COMPLETING THIS FORM.

This form should be used to submit the following permit requests for individually permitted Mining and Coalbed Methane Operations:

Modifications/Reissuances that include Permit Transfers and/or Permittee/Facility Name Changes
Minor Modifications
Major Modifications
Reissuances
Reissuance of a permit on or after the current permit's expiration date
Revocation and Reissuance before the current permit's expiration date

Please complete all questions and attach all necessary documentation as prompted throughout the application process. Incomplete or incorrect information will delay processing.

Applicable Fees:
Minor Modifications
$3,400 (Mineral/Resource Extraction Mining, Storage Transloading, Dry Processing)
$3.940 (Wet Preparation, Processing, Beneficiation)
$3,940 (Coalbed Methane Operations)
Major Modifications
$5,820 (Mineral/Resource Extraction Mining, Storage Transloading, Dry Processing)
$6,860 (Wet Preparation, Processing, Beneficiation)
$6,860 (Coalbed Methane Operations)
Reissuances
$5,820 (Mineral/Resource Extraction Mining, Storage Transloading, Dry Processing)
$6,860 (Wet Preparation, Processing, Beneficiation)
$6,860 (Coalbed Methane Operations)
Potential Add-on Fees for Major Modifications and Reissuances
$1,015 (Biomonitoring & Toxicity Limits)
$2,705 (Review of Model Performed by Others)
$4,855 (Modeling – desktop)
For assistance, please click here to determine the permit staff responsible for the site or call (334) 394-4372.

Processing Information

Purpose of Application
Reissuance of Permit Due to Approaching Expiration

Please indicate if the Permittee is applying for a permit transfer and/or name change in addition to permit modification or reissuance:
None

Action Type
Reissuance

Briefly describe any planned changes at the facility that are included in this reissuance application:
Not Applicable

Is this a coalbed methane operation?
Yes

Permit Information

Permit Number
AL0049760

Current Permittee Name
Warrior Met Coal Gas, LLC

Permittee

Permittee Name
Warrior Met Coal Gas, LLC

Mailing Address

16243 Highway 216

Brookwood, AL 35444

Responsible Official

Prefix
Mr.

First Name	Last Name
Charles	*Hamner*

Title
General Manager

Organization Name
Warrior Met Coal Gas, LLC

Phone Type	Number	Extension
Business	2052474256	

Email
charles.hamner@warriormetcoal.com

Mailing Address

12031 LAKE NICOL RD

TUSCALOOSA, AL 35406

Existing Permit Contacts

Affiliation Type	Contact Information	Remove?
Environmental Contact,Authorized Rep,DMR Contact	Charles Hamner, Warrior Met Coal Gas, LLC	NONE PROVIDED
Responsible Official,Notification Recipient	Jack Richardson, Warrior Met Coal Gas, LLC	Remove
Permittee	Warrior Met Coal Gas, LLC	NONE PROVIDED

Facility/Operations Information

Facility/Operations Name
South Deerlick Creek

Permittee Organization Type
LLC

Parent Corporation and Subsidiary Corporations of Applicant, if any:
Warrior Met Coal Intermediate Holdco, LLC

Landowner(s) Name, Address and Phone Number:
Individual landowner information available to the department upon request.

Sub-contractor(s)/Operator(s), if known:
Not Applicable

Is the ﷺCompany/Permitteeﷺ properly registered and in good standing with the Alabama Secretary of Stateﷺs office?
Yes

Facility/Operations Address or Location Description

12031 Lake Nicol Road
Tuscaloosa, AL 35406

Facility/Operations County (Front Gate)
Tuscaloosa

Do the operations span multiple counties?
No

Detailed Directions to the Facility/Operations
From the intersection of I-359 and I-20/59, proceed North along I-359 3.6 miles to Rice Mine Rd/5th Street. Turn right and continue East along Rice Mine Rd/5th Street 5.9 miles to New Watermelon Road. Turn right and continue Northeast along New Watermelon Road 3.5 miles to Lake Nicol Road. Turn right and continue East along Lake Nicol Road 2.9 miles to the field office entrance on the right.

Please refer to the link below for Lat/Long map instruction help:
Map Instruction Help

Facility/Operations Front Gate Latitude and Longitude
33.304389,-87.455144

12031 Lake Nicol Road, Tuscaloosa, AL

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, R9W, S(s) 13, 14, 21-28, 33-36

SIC Code(s) [Please select your primary SIC code first]:
1311-Crude Petroleum and Natural Gas

NAICS Code(s) [Please select your primary NAICS code first]:
211130-Natural Gas Extraction

Facility/Operations Contact

Prefix
Mr.

First Name	Last Name
Charles	*Hamner*

Title
General Manager

Organization Name
Warrior Met Coal Gas, LLC

Phone Type	Number	Extension
Business	2052474256	

Email
charles.hamner@warriormetcoal.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 (if this does not apply, then enter N/A after selecting "Manually Enter in Table"):

List of Names/Titles/Addresses will be entered by:
Manually Entering in Table

Name	Title/Position	Physical Address of Residence
Jack K. Richardson	Chief Operating Officer & President	16243 Highway 216; Brookwood, AL 35444
Dale W. Boyles	Chief Financial Officer	16243 Highway 216; Brookwood, AL 35444
Kelli K. Gant	Chief Administrative Officer & Secretary	16243 Highway 216; Brookwood, AL 35444
Brian M. Chopin	Senior Vice President, Chief Accounting Officer & Controller	16243 Highway 216; Brookwood, AL 35444
Philip Saunders	Senior Vice President, Engineering	16243 Highway 216; Brookwood, AL 35444
Phillip C. Monroe	Senior Vice President, Legal	16243 Highway 216; Brookwood, AL 35444
Richard A. Marlowe	Vice President, Safety	16243 Highway 216; Brookwood, AL 35444

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 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
Warrior Met Coal BC, LLC	Jack Richardson	Chief Operating Officer & President
Warrior Met Coal BC, LLC	Dale W. Boyles	Chief Financial Officer
Warrior Met Coal BC, LLC	Kelli K. Gant	Chief Administrative Officer & Secretary
Warrior Met Coal BC, LLC	Brian M. Chopin	Senior Vice President, Chief Accounting Officer & Controller
Warrior Met Coal BC, LLC	Philip Saunders	Senior Vice President, Engineering
Warrior Met Coal BC, LLC	Phillip C. Monroe	Senior Vice President, Legal
Warrior Met Coal BC, LLC	Richard A. Marlowe	Vice President, Safety
Warrior Met Coal Land, LLC	Jack K. Richardson	Chief Operating Officer & President
Warrior Met Coal Land, LLC	Dale W. Boyles	Chief Financial Officer
Warrior Met Coal Land, LLC	Kelli K. Gant	Chief Administrative Officer & Secretary
Warrior Met Coal Land, LLC	Brian M. Chopin	Senior Vice President, Chief Accounting Officer & Controller
Warrior Met Coal Land, LLC	Philip Saunders	Senior Vice President, Engineering
Warrior Met Coal Land, LLC	Phillip C. Monroe	Senior Vice President, Legal

Name of Corporation, Partnership, Association, or Single Proprietorship	Name of Individual	Title/Position in Corporation, Partnership, Association, or Single Proprietorship
Warrior Met Coal Land, LLC	Richard A. Marlowe	Vice President, Safety
Warrior Met Coal Mining, LLC	Jack K. Richardson	Chief Operating Officer & President
Warrior Met Coal Mining, LLC	Dale W. Boyles	Chief Financial Officer
Warrior Met Coal Mining, LLC	Kelli K. Gant	Chief Administrative Officer & Secretary
Warrior Met Coal Mining, LLC	Brian M. Chopin	Senior Vice President, Chief Accounting Officer & Controller
Warrior Met Coal Mining, LLC	Philip Saunders	Senior Vice President, Engineering
Warrior Met Coal Mining, LLC	Phillip C. Monroe	Senior Vice President, Legal
Warrior Met Coal Mining, LLC	Richard A. Marlowe	Vice President, Safety
Warrior Met Coal TRI, LLC	Jack K. Richardson	Chief Operating Officer & President
Warrior Met Coal TRI, LLC	Dale W. Boyles	Chief Financial Officer
Warrior Met Coal TRI, LLC	Kelli K. Gant	Chief Administrative Officer & Secretary
Warrior Met Coal TRI, LLC	Brian M. Chopin	Senior Vice President, Chief Accounting Officer & Controller
Warrior Met Coal TRI, LLC	Philip Saunders	Senior Vice President, Engineering
Warrior Met Coal TRI, LLC	Phillip C. Monroe	Senior Vice President, Legal
Warrior Met Coal TRI, LLC	Richard A. Marlowe	Vice President, Safety

Additional Contacts (1 of 1)

ADDITIONAL CONTACTS:

Contact Type
NONE PROVIDED

Contact

First Name
NONE PROVIDED

Last Name
NONE PROVIDED

Title
NONE PROVIDED

Organization Name
NONE PROVIDED

Phone Type **Number** **Extension**
NONE PROVIDED

Email
NONE PROVIDED

Address
[NO STREET ADDRESS SPECIFIED]
[NO CITY SPECIFIED], AL [NO ZIP CODE SPECIFIED]

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:
413-0099 & 413-0065. Oil and Gas Board Permits for wells will be provided upon request.

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:
• Oil and Gas Board Permits for wells will be provided upon request.
• ADCNR: 14-06-003, 15-01-007, 13-08-006, 13-07-001
• ADECA: 86, 1225, 1274
• ADEM: 413-0099, 413-0065, AL0054062, ALR000051078, 413-0113, 413-0081, 413-0044, 413-0109, 413-0046, AL0081477, ALR10BFR6, ALR10C4C2, ALR10C48J, ALR10C2XU, AL0057312, AL0075043, AL0070777, AL0074012, AL0075558, ALR109605, ALR10A788, ALG140042, AL0074349, AL0074420, AL0022861, AL0026590, 63-20, ALSI9963634, ALR10BCXI, ALR10BFY7, AL0029475, ALSI9963512, AL0029181, 63-21, ALSI9963636, ALG160192, ALR10AB78, AL0073458
• ASMC: P-3964, P-4003, P-3839, P-3774, P-3817, P-3832, P-3852, P-3906, P-3199, P-3260, P-3256, P-3927, P-3247, P-3819
• JCDoH: 4-07-2710-001-01, 4-07-2717-001-01
•MSHA: 01-03448, 01-03260, 01-03104, 01-03104, 01-03104, 01-02515, 01-03193, 01-03196, 01-03390, 01-00563, 01-01247, 01-01322, 01-01247, 01-01401, 01-03196
• USACE: SAM-2011-01645-CMS, SAM-2012-01537-CMS, AL02-00696-L, ALG02-00697-L, SAM-2008-00304-HWL, SAM-2007-02003-HWL, AL-90-01938-V, SAM-2012-00354-CMS, SAM-2014-00164-JMT, SAM-2015-00875-CMS, SAM-2015-01360-CMS, SAM-2015-00965-CMS, SAM-2018-00886-JSC, SAM-2011-00781-CTM, SAM-2013-01178-CMS, SAM-2014-00437-CMS, SAM-2014-00438-CMS, SAM-2016-00116-CMS, SAM-2016-00668, SAM-2011-00370-CTM, SAM-2011-00371-CTM

Anti-Degradation Evaluation

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. Does this modification/reissuance include new or expanded discharges to Tier II water(s)?
No

Activity Description & Information

Narrative description of activity(s):
Coalbed methane exploration, production, operation, and associated activities.

Total Facility/Operations Area (acres)
8960.00

Total Disturbed Area (acres)
5.00

Anticipated Commencement Date
03/01/1988

Anticipated Completion Date
12/31/2040

Please identify which of the following apply to this operation:

Activity/Condition	Appy?
An existing facility/operation which currently results in discharges to State waters?	Yes
A proposed facility/operation which will result in a discharge to State waters?	No
Be located within any 100-year flood plain?	Yes
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?	Yes
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 ½ mile of any PWS well?	No
Incised pit	No

Does your facility/operation use cooling water?
No

Proposed Activity Related to Coalbed Methane

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

Activity	Apply?
CBM exploration/production (drilling, fracturing, etc.)	Yes
Chemicals used in process or wastewater treatment (coagulant, biocide, etc.)	No
Construction Excavation	Yes
Construction related temporary borrow pits/areas	Yes
Conventional Oil & Gas exploration	No
Creek/stream pipeline or road crossings	Yes
Gob well development	Yes
Grading, clearing, grubbing, etc.	Yes
Land application of temporary pit waters	Yes
Onsite construction debris or equipment storage/disposal	Yes
Other beneficiation and manufacturing operations	No
Reclamation of disturbed areas	Yes
Surface water withdrawal	No
Waterbody relocation or other alteration	No

If the operation will include activities other than those listed above, please describe them below:
Not Applicable

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
0	See Attached SPCC

SPCC Plan

WMC-SPCC 2022_F111722.pdf - 01/24/2024 07:21 AM
Comment
NONE PROVIDED

Topographic Map Submittal

Topographic Map Related to Coalbed Methane

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, operations name, county, and township, range, & section(s) where the operations are located. Unless approved in advance by the Department, the topographic or equivalent map(s), at a minimum, must show: (a) An outline of legal boundary of entire operations (property lines and lease boundaries) (b) Compressor stations (c) All existing and proposed disturbed areas (d) Operations gas and water pipelines (e) Proposed and existing discharge points (f) Perennial, intermittent, and ephemeral streams (g) Lakes, springs, water wells, and wetlands (h) All known dirt/improved access roads for operations (i) Wellpads and service roads (j) Other information relevant to operations (k) All surrounding unimproved/improved roads (l) High-tension power lines and railroad tracks (m) Buildings and structures, including fuel/water tanks (n) Contour lines, township-range-section lines (o) Drainage patterns, swales, washes (p) All drainage conveyance/treatment structures (ditches, berms, etc.) (q) Any other pertinent or significant structure/feature (r) Location of any waste storage/disposal areas (s) Location of operations sign showing Permittee name, operations name, and NPDES Number.

Topographic Map

SOUTH DEERLICK NPDES PERMIT MAP (8-28-2018).pdf - 01/24/2024 08:24 AM
Comment
NONE PROVIDED

Outfalls (1 of 1)

Outfall Identifier: 001

Feature Type
Outfall (External)

Outfall Identifier
001

Outfall Status
Existing

> 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.

Permit Action
Reissue

Receiving Water
Black Warrior River

Check below if the discharge enters the receiving water via an unnamed tributary.
NONE PROVIDED

Location of Outfall
33.25638900000000, -87.44222200000000

Are the location coordinates above still correct for this outfall?
Yes

Distance to Receiving Water (ft)
0

Disturbed Area (acres)
0

Drainage Area (acres)
0

303(d) Segment?
No

TMDL Segment?
No

Please do not add a new outfall unless you are requesting a modification that includes a new outfall. All of the currently permitted outfalls are already included in this form. If you add an outfall in error, please choose "Delete" under "Permit Action" for the outfall. If you have any questions, please contact your permit engineer BEFORE proceeding.

Discharge Characterization Related to Coalbed Methane

EPA Form 2C/2D Submittal
Yes

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

Professional Engineer (PE)

Registration License Number
30097-E

Professional Engineer

Prefix
Mr.

First Name	Last Name
Quinn	*Stewart*

Title
Professional Engineer

Organization Name
McGiffert and Associates, LLC

Phone Type	Number	Extension
Business	2057591521	

Email
hstewart@mcgiffert.com

Address
2814 Stillman Boulevard
Tuscaloosa, Alabama 35401

Information for the Applicant Related to Coalbed Methane

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. The applicant should ensure that other than those proposed activities described in this application, there are no other potential pollutants, processes, process wastewaters or activities that require NPDES permit coverage. Permit coverage will allow for use of captive borrow areas used solely for the permitted operation. Coverage under the Department's NPDES Construction Stormwater Permit Program allows for short-lived, construction related, limited removal or relocation of fill material offsite, and does not provide coverage for coalbed methane operations.

The applicant should understand by submission of this application, that they are advised to contact:
1) The Alabama State Oil & Gas Board;
2) The Alabama Historical Commission for requirements related to any potential historic or culturally significant sites;
3) The Alabama Department of Conservation and Natural Resources (ADCNR) for requirements related to potential presence of threatened/endangered species; and
4) The US Army Corps of Engineers, Mobile or Nashville Districts, if this project could cause fill to be placed in federal waters/wetlands 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, Modeling fees, 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
WMCG-SDL-3510-2c_F032224.pdf - 03/22/2024 12:59 PM
Comment
NONE PROVIDED

Application Preparer

Application Preparer

Prefix
Mr.

First Name	Last Name
Quinn	*Stewart*

Title
Professional Engineer

Organization Name
McGiffert and Associates, LLC

Phone Type	Number	Extension
Business	2057591521	

Email
hstewart@mcgiffert.com

Address
2814 Stillman Boulevard
Tuscaloosa, Alabama 35401

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.

If the correct fees are not displayed, please contact your permit engineer PRIOR to submitting the form. Do NOT answer questions erroneously in order to have the correct fee assessed.

Coalbed Methane:
6860

Biomonitoring & Toxicity Limits:
1015

> Please be aware that a CORMIX model may be required for this application. If so, additional fees will be required.

Fee

Fee
7875

> Please be aware that a CORMIX model may be required for this application. If so, additional fees will be required.

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 (PE)

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 under penalty of lawthat the technical information and data contained in this application, and a comprehensive Pollution Abatement & Prevention (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 this Permit, and 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 Quinn Stewart on 03/25/2024 at 7:44 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 lawthat 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 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.

Signed By CHARLES HAMNER on 03/27/2024 at 2:34 PM

EPA Identification Number	NPDES Permit Number	Facility Name	OMB No. 2040-0004 Expires 07/31/2026
	AL0049760	South Deerlick Creek	

Form 2C NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(G)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below.

Outfall Number	Receiving Water Name	Latitude	Longitude
001E	Black Warrior River	33.256444	-87.442194

SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))

Line Drawing

2.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C–1 at end of instructions for example.)

☑ Yes

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))

Average Flows and Treatment

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.

****Outfall Number**** 001E

Operations Contributing to Flow

Operation	Average Flow
Coalbed methane exploration, production,	0.0519 mgd
operation, and associates activities	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
Process water is removed by pumping unit and relayed to	001E	There are no drying beds and
wastewater treatment pond. The pond typically retains		no solids accumulation
and treats process water for five (5) days and then		for disposal.
discharges to the receiving water through a 3" meter.		

Average Flows and Treatment Continued

3.1 cont.

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2C–2	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

System Users

3.2 Are you applying for an NPDES permit to operate a privately owned treatment works?

☐ Yes ☑ No ➔ SKIP to Section 4.

3.3 Have you attached a list that identifies each user of the treatment works?

☐ Yes

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))

Intermittent Flows

4.1 Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal?

☐ Yes ☑ No ➔ SKIP to Section 5.

4.2 Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.

Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
		Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days

SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))

Applicable ELGs

5.1 Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility?

☐ Yes ☑ No ➔ SKIP to Section 6.

5.2 Provide the following information on applicable ELGs.

ELG Category	ELG Subcategory	Regulatory Citation

Production-Based Limitations

5.3 Are any of the applicable ELGs expressed in terms of production (or other measure of operation)?

☐ Yes ☐ No ➔ SKIP to Section 6.

5.4 Provide an actual measure of daily production expressed in terms and units of applicable ELGs.

Outfall Number	Operation, Product, or Material	Quantity per Day	Unit of Measure

5.5 Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Yes ☐ No

SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

Upgrades and Improvements

6.1 Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?

☐ Yes ☑ No ➔ SKIP to Item 6.3.

6.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

6.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? *(optional item)*

☐ Yes ☐ No ☑ Not applicable

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

Effluent and Intake Characteristics

See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.

Table A. Conventional and Non-Conventional Pollutants

7.1 Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?

☐ Yes ☑ No ➔ SKIP to Item 7.3.

7.2 If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.

Outfall number _____ Outfall number _____ Outfall number _____

☐ I am requesting a waiver for some pollutants at all outfalls.

☐ I am requesting a waiver for all pollutants at all outfalls ➔ SKIP to Item 7.4.

7.3 Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?

☑ Yes

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants

7.4 Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C–3? (See end of instructions for exhibit.)

☐ Yes ☑ No ➔ SKIP to Item 7.8.

7.5 Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?

☐ Yes

Effluent and Intake Characteristics Continued

7.6 List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C–3.

Primary Industry Category	Required GC/MS Fraction(s) (check applicable boxes)
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide

7.7 Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6?

☐ Yes

7.8 Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required?

☑ Yes

7.9 Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge?

☑ Yes

7.10 Does the applicant qualify for a small business exemption under the criteria specified in the instructions?

☐ Yes ➔ Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☑ No

7.11 Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge?

☑ Yes

Table C. Certain Conventional and Non-Conventional Pollutants

7.12 Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls?

☑ Yes

7.13 Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent."

☑ Yes ☐ Not applicable

7.14 Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"?

☑ Yes

Table D. Certain Hazardous Substances and Asbestos

7.15 Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls?

☑ Yes

7.16 Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available?

☑ Yes ☐ No

Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)

7.17 Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent?

☐ Yes ➔ Complete Table E. ☑ No ➔ SKIP to Section 8.

7.18 Have you completed Table E by reporting *qualitative* data for TCDD?

☑ Yes

SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

Used or Manufactured Toxics

8.1 Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct?

☑ Yes ☐ No ➔ SKIP to Section 9.

8.2 List the pollutants below. Attach additional sheets, if necessary.

1.	4.	7.
2.	5.	8.
3.	6.	9.

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

Biological Toxicity Tests

9.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge?

☑ Yes ☐ No ➔ SKIP to Section 10.

9.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
Ceriodaphnia Acute Pimephales Acute	Verify Bio-toxicity at IWC	☑ Yes ☐ No	01/23/2024
Ceriodaphnia Acute Pimephales Acute	Verify Bio-toxicity at IWC	☑ Yes ☐ No	07/31/2023
Ceriodaphnia Acute Pimephales Acute	Verify Bio-toxicity at IWC	☑ Yes ☐ No	01/25/2023

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

Contract Analyses

10.1 Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm?

☑ Yes ☐ No ➔ SKIP to Section 11.

10.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	McGehee Engineering Corp.		
Laboratory address	450 19th Street West Jasper, AL 35501		
Phone number	(205) 221-0686		
Pollutant(s) analyzed	Table A, Table B Sections 1-4, and Table C		

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))

Additional Information

11.1 Has the NPDES permitting authority requested additional information?

☐ Yes ☑ No ➔ SKIP to Section 12.

11.2 List the information requested and attach it to this application.

1.	4.
2.	5.
3.	6.

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))

Checklist and Certification Statement

12.1 In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.

Column 1	Column 2	
☑ Section 1: Outfall Location	☐ w/ attachments	
☑ Section 2: Line Drawing	☑ w/ line drawing	☐ w/ additional attachments
☑ Section 3: Average Flows and Treatment	☐ w/ attachments	☐ w/ list of each user of privately owned treatment works
☑ Section 4: Intermittent Flows	☐ w/ attachments	
☑ Section 5: Production	☐ w/ attachments	
☑ Section 6: Improvements	☐ w/ attachments	☐ w/ optional additional sheets describing any additional pollution control plans
☑ Section 7: Effluent and Intake Characteristics	☐ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☑ w/ Table A ☑ w/ Table C ☑ w/ Table E	☐ w/ explanation for identical outfalls ☐ w/ other attachments ☑ w/ Table B ☑ w/ Table D ☑ w/ analytical results as an attachment
☑ Section 8: Used or Manufactured Toxics	☐ w/ attachments	
☑ Section 9: Biological Toxicity Tests	☐ w/ attachments	
☑ Section 10: Contract Analyses	☐ w/ attachments	
☑ Section 11: Additional Information	☐ w/ attachments	
☑ Section 12: Checklist and Certification Statement	☐ w/ attachments	

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

Checklist and Certification Statement

12.2 Provide the following certification. (See instructions to determine the appropriate person to sign the application.)

Certification Statement

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.

Name (print or type first and last name)	Official title
Charles Hamner	General Manager
Signature Charles Hamner	**Date signed** 3/22/2024

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0049760	South Deerlick Creek	001E

OMB No. 2040-0004
Expires 07/31/2026

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii)) [1]

	Pollutant	Waiver Requested (if applicable)	Units (specify)		Effluent: Maximum Daily Discharge (required)	Effluent: Maximum Monthly Discharge (if available)	Effluent: Long-Term Average Daily Discharge (if available)	Effluent: Number of Analyses	Intake (optional): Long-Term Average Value	Intake (optional): Number of Analyses
☐	Check here if you have applied to your NPDES permitting authority for a waiver for *all* of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD_5)	☐	Concentration	mg/L	4			1		
			Mass							
2.	Chemical oxygen demand (COD)	☐	Concentration	mg/L	14			1		
			Mass							
3.	Total organic carbon (TOC)	☐	Concentration	mg/L	5			1		
			Mass							
4.	Total suspended solids (TSS)	☐	Concentration	mg/L	18			1		
			Mass							
5.	Ammonia (as N)	☐	Concentration	mg/L	BML(<0.10)			1		
			Mass							
6.	Flow	☐	Rate	mgd	0.00			1		
7.	Temperature (winter)	☐	°C	°C	1.1					
	Temperature (summer)	☐	°C	°C	33.3					
8.	pH (minimum)	☐	Standard units	s.u.	7.96			1		
	pH (maximum)	☐	Standard units	s.u.	7.96			1		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

This page intentionally left blank.

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0049760	South Deerlick Creek	001E

OMB No. 2040-0004
Expires 07/31/2026

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐	Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.											
Section 1. Toxic Metals, Cyanide, and Total Phenols												
1.1	Antimony, total (7440-36-0)	☑	☐	☐	Concentration	µg/L	BML(<1.92)			1		
					Mass							
1.2	Arsenic, total (7440-38-2)	☑	☐	☐	Concentration	µg/L	1.78			1		
					Mass							
1.3	Beryllium, total (7440-41-7)	☑	☐	☐	Concentration	µg/L	BML(<2.20)			1		
					Mass							
1.4	Cadmium, total (7440-43-9)	☑	☐	☐	Concentration	µg/L	BML(<0.08)			1		
					Mass							
1.5	Chromium, total (7440-47-3)	☑	☐	☐	Concentration	µg/L	BML(<1.64)			1		
					Mass							
1.6	Copper, total (7440-50-8)	☑	☐	☐	Concentration	µg/L	BML(<0.90)			1		
					Mass							
1.7	Lead, total (7439-92-1)	☑	☐	☐	Concentration	µg/L	BML(<0.31)			1		
					Mass							
1.8	Mercury, total (7439-97-6)	☑	☐	☐	Concentration	µg/L	BML(<0.01)			1		
					Mass							
1.9	Nickel, total (7440-02-0)	☑	☐	☐	Concentration	µg/L	BML(<6.86)			1		
					Mass							
1.10	Selenium, total (7782-49-2)	☑	☐	☐	Concentration	µg/L	5.90			1		
					Mass							
1.11	Silver, total (7440-22-4)	☑	☐	☐	Concentration	µg/L	BML(<0.15)			1		
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	☑	☐	☐	Concentration	µg/L	BML(<0.08)			1		
					Mass							
1.13	Zinc, total (7440-66-6)	☑	☐	☐	Concentration	µg/L	39.25			1		
					Mass							
1.14	Cyanide, total (57-12-5)	☑	☐	☐	Concentration	µg/L	BML(<3.0)			1		
					Mass							
1.15	Phenols, total	☑	☐	☐	Concentration	µg/L	BML(<6.0)			1		
					Mass							
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)												
2.1	Acrolein (107-02-8)	☑	☐	☐	Concentration	µg/L	BDL(<100.0)			1		
					Mass							
2.2	Acrylonitrile (107-13-1)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.3	Benzene (71-43-2)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.4	Bromoform (75-25-2)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.5	Carbon tetrachloride (56-23-5)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.6	Chlorobenzene (108-90-7)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.7	Chlorodibromomethane (124-48-1)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.8	Chloroethane (75-00-3)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							
2.10	Chloroform (67-66-3)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.11	Dichlorobromomethane (75-27-4)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.12	1,1-dichloroethane (75-34-3)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.13	1,2-dichloroethane (107-06-2)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.14	1,1-dichloroethylene (75-35-4)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.15	1,2-dichloropropane (78-87-5)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.16	1,3-dichloropropylene (542-75-6)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.17	Ethylbenzene (100-41-4)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.18	Methyl bromide (74-83-9)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							
2.19	Methyl chloride (74-87-3)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							
2.20	Methylene chloride (75-09-2)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.21	1,1,2,2- tetrachloroethane (79-34-5)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
2.22	Tetrachloroethylene (127-18-4)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.23	Toluene (108-88-3)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.24	1,2-trans-dichloroethylene (156-60-5)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.25	1,1,1-trichloroethane (71-55-6)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.26	1,1,2-trichloroethane (79-00-5)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.27	Trichloroethylene (79-01-6)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
2.28	Vinyl chloride (75-01-4)	☑	☐	☐	Concentration	µg/L	BDL(<2.0)			1		
					Mass							
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
3.2	2,4-dichlorophenol (120-83-2)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
3.3	2,4-dimethylphenol (105-67-9)	☑	☐	☐	Concentration	µg/L	BDL(<50.0)			1		
					Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
3.5	2,4-dinitrophenol (51-28-5)	☑	☐	☐	Concentration	µg/L	BDL(<25.0)			1		
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
3.6	2-nitrophenol (88-75-5)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
3.7	4-nitrophenol (100-02-7)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
3.8	p-chloro-m-cresol (59-50-7)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
3.9	Pentachlorophenol (87-86-5)	☑	☐	☐	Concentration	µg/L	BDL(<2.0)			1		
					Mass							
3.10	Phenol (108-95-2)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
3.11	2,4,6-trichlorophenol (88-05-2)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.2	Acenaphthylene (208-96-8)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.3	Anthracene (120-12-7)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.4	Benzidine (92-87-5)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.5	Benzo (a) anthracene (56-55-3)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.6	Benzo (a) pyrene (50-32-8)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0049760	South Deerlick Creek	001E

OMB No. 2040-0004
Expires 07/31/2026

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.8	Benzo (ghi) perylene (191-24-2)	☑	☐	☐	Concentration	µg/L	BDL(<1.0)			1		
					Mass							
4.9	Benzo (k) fluoranthene (207-08-9)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.10	Bis (2-chloroethoxy) methane (111-91-1)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							
4.11	Bis (2-chloroethyl) ether (111-44-4)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.14	4-bromophenyl phenyl ether (101-55-3)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.15	Butyl benzyl phthalate (85-68-7)	☑	☐	☐	Concentration	µg/L	BDL(<2.0)			1		
					Mass							
4.16	2-chloronaphthalene (91-58-7)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.17	4-chlorophenyl phenyl ether (7005-72-3)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.18	Chrysene (218-01-9)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0049760	South Deerlick Creek	001E

OMB No. 2040-0004
Expires 07/31/2026

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	☑	☐	☐	Concentration	µg/L	BDL(<25.0)			1		
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	☑	☐	☐	Concentration	µg/L	BDL(<25.0)			1		
					Mass							
4.24	Diethyl phthalate (84-66-2)	☑	☐	☐	Concentration	µg/L	BDL(<25.0)			1		
					Mass							
4.25	Dimethyl phthalate (131-11-3)	☑	☐	☐	Concentration	µg/L	BDL(<25.0)			1		
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							
4.31	Fluoranthene (206-44-0)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.32	Fluorene (86-73-7)	☑	☐	☐	Concentration	µg/L	BDL(<2.0)			1		
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	☑	☐	☐	Concentration	µg/L	BDL(<2.0)			1		
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	☑	☐	☐	Concentration	µg/L	BDL(<2.0)			1		
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.36	Hexachloroethane (67-72-1)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.38	Isophorone (78-59-1)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.39	Naphthalene (91-20-3)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.40	Nitrobenzene (98-95-3)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.41	N-nitrosodimethylamine (62-75-9)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							
4.42	N-nitrosodi-n-propylamine (621-64-7)	☑	☐	☐	Concentration	µg/L	BDL(<10.0)			1		
					Mass							
4.43	N-nitrosodiphenylamine (86-30-6)	☑	☐	☐	Concentration	µg/L	BDL(<50.0)			1		
					Mass							
4.44	Phenanthrene (85-01-8)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
4.45	Pyrene (129-00-0)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
4.46	1,2,4-trichlorobenzene (120-82-1)	☑	☐	☐	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.2	α-BHC (319-84-6)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.3	β-BHC (319-85-7)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.4	γ-BHC (58-89-9)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.5	δ-BHC (319-86-8)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.6	Chlordane (57-74-9)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.7	4,4'-DDT (50-29-3)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.8	4,4'-DDE (72-55-9)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.9	4,4'-DDD (72-54-8)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.10	Dieldrin (60-57-1)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.11	α-endosulfan (115-29-7)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.13	Endosulfan sulfate (1031-07-8)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.14	Endrin (72-20-8)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.15	Endrin aldehyde (7421-93-4)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.16	Heptachlor (76-44-8)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.17	Heptachlor epoxide (1024-57-3)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.18	PCB-1242 (53469-21-9)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.19	PCB-1254 (11097-69-1)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.20	PCB-1221 (11104-28-2)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.21	PCB-1232 (11141-16-5)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.22	PCB-1248 (12672-29-6)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.23	PCB-1260 (11096-82-5)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							
5.24	PCB-1016 (12674-11-2)	☐	☐	☑	Concentration	µg/L	BDL(<5.0)			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0049760	South Deerlick Creek	001E

OMB No. 2040-0004
Expires 07/31/2026

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.25	Toxaphene (8001-35-2)	☐	☐	☑	Concentration	µg/L	BDL(<2.0)			1		
					Mass							

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0049760	South Deerlick Creek	

OMB No. 2040-0004
Expires 07/31/2026

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐	Check here if you believe all pollutants in Table C to be ***present*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
☐	Check here if you believe all pollutants in Table C to be ***absent*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
1.	Bromide (24959-67-9)	☐	☑	Concentration	mg/L	BDL(<20.0)			1		
				Mass							
2.	Chlorine, total residual	☑	☐	Concentration	mg/L	0.02			1		
				Mass							
3.	Color	☐	☑	Concentration	C.U.	BDL(<25.0)			1		
				Mass							
4.	Fecal coliform	☐	☑	Concentration	col/100ml	0			1		
				Mass							
5.	Fluoride (16984-48-8)	☐	☑	Concentration	mg/L	BDL(<20.0)			1		
				Mass							
6	Nitrate-nitrite	☐	☑	Concentration	mg/L	BDL(<20.0)			1		
				Mass							
7.	Nitrogen, total organic (as N)	☑	☐	Concentration	mg/L	0.7			1		
				Mass							
8.	Oil and grease	☐	☑	Concentration	mg/L	BDL(<5.0)			1		
				Mass							
9.	Phosphorus (as P), total (7723-14-0)	☐	☑	Concentration	mg/L	BDL(<0.06)			1		
				Mass							
10.	Sulfate (as SO_4) (14808-79-8)	☐	☑	Concentration	mg/L	BDL(<6.0)			1		
				Mass							
11.	Sulfide (as S)	☐	☑	Concentration	mg/L	BDL(<0.10)			1		
				Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0049760	South Deerlick Creek	

OMB No. 2040-0004
Expires 07/31/2026

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO_3) (14265-45-3)	☐	☑	Concentration	mg/L	BDL(<1.0)			1		
				Mass							
13.	Surfactants	☐	☑	Concentration	mg/L	BDL(<0.05)			1		
				Mass							
14.	Aluminum, total (7429-90-5)	☐	☑	Concentration	mg/L	BDL(<0.02)			1		
				Mass							
15.	Barium, total (7440-39-3)	☑	☐	Concentration	µg/L	36610			1		
				Mass							
16.	Boron, total (7440-42-8)	☐	☑	Concentration	mg/L	BDL(<0.02)			1		
				Mass							
17.	Cobalt, total (7440-48-4)	☐	☑	Concentration	µg/L	BDL(<0.17)			1		
				Mass							
18.	Iron, total (7439-89-6)	☑	☐	Concentration	mg/L	0.31			1		
				Mass							
19.	Magnesium, total (7439-95-4)	☑	☐	Concentration	mg/L	58.23			1		
				Mass							
20.	Molybdenum, total (7439-98-7)	☑	☐	Concentration	µg/L	0.69			1		
				Mass							
21.	Manganese, total (7439-96-5)	☑	☐	Concentration	mg/L	0.08			1		
				Mass							
22.	Tin, total (7440-31-5)	☐	☑	Concentration	mg/L	BDL(<0.10)			1		
				Mass							
23.	Titanium, total (7440-32-6)	☐	☐	Concentration	mg/L	BDL(<0.001)			1		
				Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0049760	South Deerlick Creek	

OMB No. 2040-0004
Expires 07/31/2026

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24.	**Radioactivity**										
	Alpha, total	☐	☑	Concentration							
				Mass							
	Beta, total	☐	☑	Concentration							
				Mass							
	Radium, total	☐	☑	Concentration							
				Mass							
	Radium 226, total	☐	☑	Concentration							
				Mass							

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☑		
2.	Acetaldehyde	☐	☑		
3.	Allyl alcohol	☐	☑		
4.	Allyl chloride	☐	☑		
5.	Amyl acetate	☐	☑		
6.	Aniline	☐	☑		
7.	Benzonitrile	☐	☑		
8.	Benzyl chloride	☐	☑		
9.	Butyl acetate	☐	☑		
10.	Butylamine	☐	☑		
11.	Captan	☐	☑		
12.	Carbaryl	☐	☑		
13.	Carbofuran	☐	☑		
14.	Carbon disulfide	☐	☑		
15.	Chlorpyrifos	☐	☑		
16.	Coumaphos	☐	☑		
17.	Cresol	☐	☑		
18.	Crotonaldehyde	☐	☑		
19.	Cyclohexane	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☑		
21.	Diazinon	☐	☑		
22.	Dicamba	☐	☑		
23.	Dichlobenil	☐	☑		
24.	Dichlone	☐	☑		
25.	2,2-dichloropropionic acid	☐	☑		
26.	Dichlorvos	☐	☑		
27.	Diethyl amine	☐	☑		
28.	Dimethyl amine	☐	☑		
29.	Dintrobenzene	☐	☑		
30.	Diquat	☐	☑		
31.	Disulfoton	☐	☑		
32.	Diuron	☐	☑		
33.	Epichlorohydrin	☐	☑		
34.	Ethion	☐	☑		
35.	Ethylene diamine	☐	☑		
36.	Ethylene dibromide	☐	☑		
37.	Formaldehyde	☐	☑		
38.	Furfural	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☑		
40.	Isoprene	☐	☑		
41.	Isopropanolamine	☐	☑		
42.	Kelthane	☐	☑		
43.	Kepone	☐	☑		
44.	Malathion	☐	☑		
45.	Mercaptodimethur	☐	☑		
46.	Methoxychlor	☐	☑		
47.	Methyl mercaptan	☐	☑		
48.	Methyl methacrylate	☐	☑		
49.	Methyl parathion	☐	☑		
50.	Mevinphos	☐	☑		
51.	Mexacarbate	☐	☑		
52.	Monoethyl amine	☐	☑		
53.	Monomethyl amine	☐	☑		
54.	Naled	☐	☑		
55.	Naphthenic acid	☐	☑		
56.	Nitrotoluene	☐	☑		
57.	Parathion	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☑		
59.	Phosgene	☐	☑		
60.	Propargite	☐	☑		
61.	Propylene oxide	☐	☑		
62.	Pyrethrins	☐	☑		
63.	Quinoline	☐	☑		
64.	Resorcinol	☐	☑		
65.	Strontium	☐	☑		
66.	Strychnine	☐	☑		
67.	Styrene	☐	☑		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☑		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☑		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☑		
71.	Trichlorofon	☐	☑		
72.	Triethanolamine	☐	☑		
73.	Triethylamine	☐	☑		
74.	Trimethylamine	☐	☑		
75.	Uranium	☐	☑		
76.	Vanadium	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	☐	☑		
78.	Xylene	☐	☑		BDL(<5.0) µg/L
79.	Xylenol	☐	☑		
80.	Zirconium	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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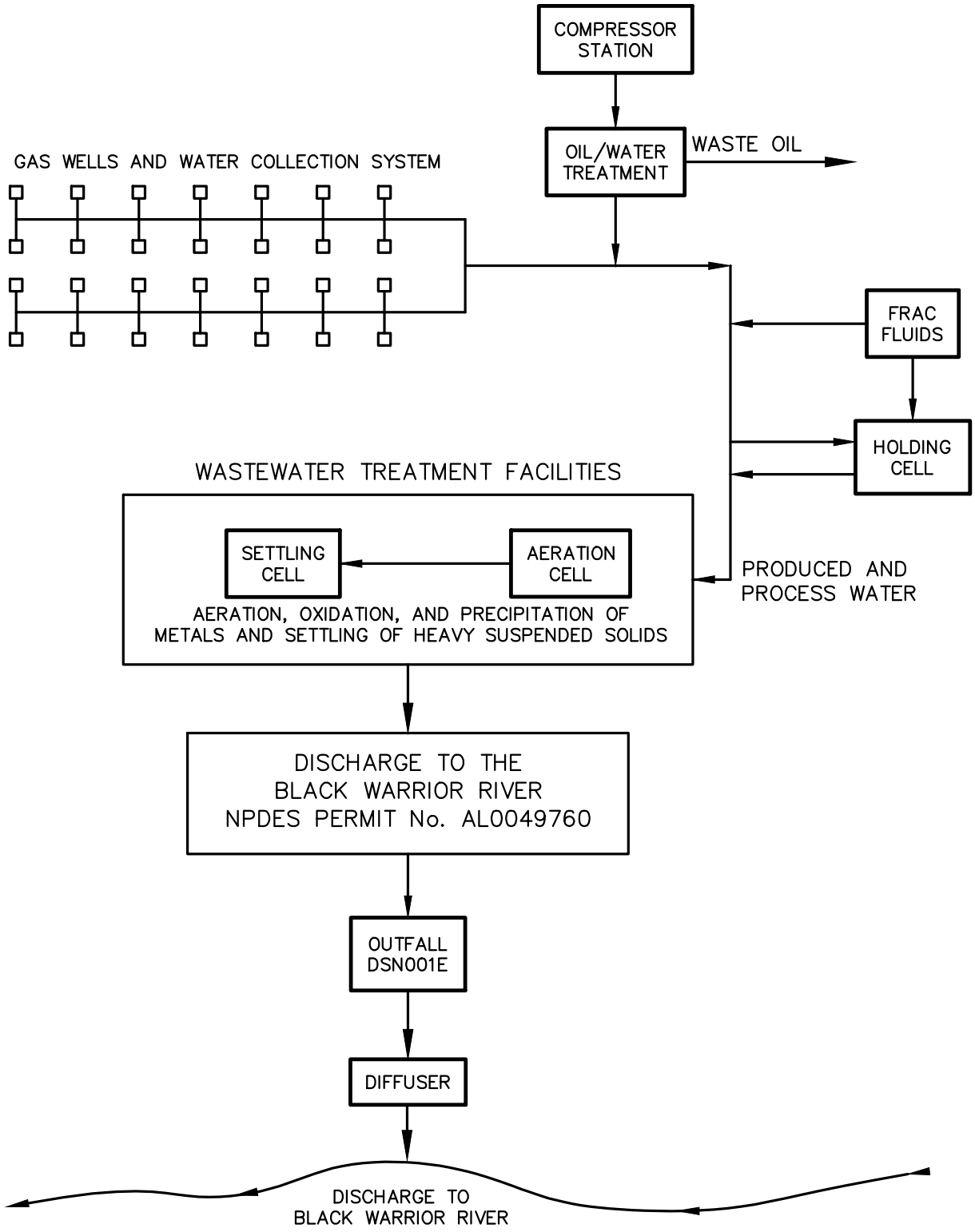
TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☑	BDL(<5.0) µg/L



McGiffert and Associates, LLC
— SINCE 1949 —
CIVIL ENGINEERS
2814 STILLMAN BLVD. • P.O. BOX 20559
TUSCALOOSA, ALABAMA 35402–0559
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WARRIOR MET COAL GAS, LLC

SOUTH DEERLICK CREEK
NPDES DISCHARGE PERMIT
NO. AL0049760

TUSCALOOSA COUNTY ALABAMA

FLOW DIAGRAM

REVISION

DATE	DESCRIPTION	BY

SCALE: NA
DATE OF FIELD SURVEY: NA
FB. PG.
DRAWN BY: DDH
JOB No. 18–3077
FILE NAME: WMCG–SDC–Flow
SHEET No. 1 of 1
CHECKED BY: QHS
DWG. No. 310–18

Date Printed: 2/22/2024

Client: **McGiffert And Associates, LLC**
P.O. Box 20559
Tuscaloosa, AL 35402

REPORT OF FINDINGS

Location: , MAA-Special WMCG-South Deerlick Creek -- SDC-Eff **Lab ID:** 24012305-01

Sample Date: 1/22/2024 @ 9:57:00 AM **Comments:**

Analyte	Result	Minimum Level / Units	Method	Analysis Date	Analyst
Aluminum, Dissolved	BML	0.02 mg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Aluminum, Total	BML	0.02 mg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Antimony, Dissolved	BML	1.92 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Antimony, Total	BML	1.92 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Arsenic III	1.07	0.30 µg/L	EPA200.8/HPLC	2/9/2024	KyleThomas
Arsenic, Dissolved	1.31	0.27 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Arsenic, Total	1.78	0.27 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Barium, Dissolved	36000	0.06 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Barium, Total	36610	0.06 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Beryllium, Dissolved	BML	2.20 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Beryllium, Total	BML	2.20 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Biochemical Oxygen Demand	4	mg/L	SM5210-B	1/25/2024	HeathBrown
Cadmium, Dissolved	BML	0.08 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Cadmium, Total	BML	0.08 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Chromium, Dissolved	BML	1.64 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Chromium, Total	BML	1.64 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Cobalt, Dissolved	BML	0.17 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Cobalt, Total	BML	0.17 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Copper, Dissolved	BML	0.90 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Copper, Total	BML	0.90 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Cyanide, Total	BML	3.0 µg/L	SM4500-CN-E	2/15/2024	KyleThomas
Fecal Coliform	0	col/100mL	9222D	1/22/2024	HeathBrown
Iron, Dissolved	BML	0.02 mg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Iron, Total	0.31	0.02 mg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Lead, Dissolved	BML	0.31 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Lead, Total	BML	0.31 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Magnesium, Dissolved	56.16	0.08 mg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Magnesium, Total	58.23	0.08 mg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas

NA = Not Analyzed *ND = No Discharge* *BML = Below Minimum Level*

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Date Printed: 2/22/2024

Manganese, Dissolved	0.08	0.03 mg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Manganese, Total	0.08	0.03 mg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Mercury, Total	BML	0.010 µg/L	EPA245.7	1/22/2024 6:09:00 PM	KyleThomas
Molybdinum, Dissolved	0.65	0.27 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Molybdinum, Total	0.69	0.27 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Nickel, Dissolved	BML	6.86 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Nickel, Total	BML	6.86 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Oil & Grease	BML	5.0 mg/L	EPA1664	1/26/2024	HeathBrown
pH	7.96	s.u.	D1293-B	1/23/2024	DylanGarner
Phenols, Total	BML	6.0 µg/L	EPA420.1	2/14/2024	KyleThomas
Phosphorus, Total	BML	0.06 mg/L	SM4500-P-E	1/31/2024	DylanGarner
Selenium, Dissolved	5.39	0.95 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Selenium, Total	5.90	0.95 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Silver, Dissolved	BML	0.15 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Silver, Total	BML	0.15 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Solids, Total Suspended	18	mg/L	SM2540-D	1/23/2024	DylanGarner
Sulfate	BML	6 mg/L	D516	1/23/2024	DylanGarner
Thallium, Dissolved	BML	0.08 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Thallium, Total	BML	0.08 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas
Total Residual Chlorine	0.02	mg/L	SM4500-Cl-G	1/22/2024	HeathBrown
Zinc, Dissolved	35.18	16.45 µg/L	EPA200.8	1/24/2024 6:25:04 PM	KyleThomas
Zinc, Total	39.25	16.45 µg/L	EPA200.8	1/24/2024 6:21:09 PM	KyleThomas

NA = Not Analyzed *ND = No Discharge* *BML = Below Minimum Level*

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Date Printed: 2/22/2024

Location: , MAA-Special WMCG-South Deerlick Creek -- SDC-Up **Lab ID:** 24012305-02

Sample Date: 1/22/2024 @ 11:23:00 AM **Comments:**

Analyte	Result	Minimum Level / Units	Method	Analysis Date	Analyst
Aluminum, Dissolved	BML	0.02 mg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Aluminum, Total	0.03	0.02 mg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Antimony, Dissolved	BML	1.92 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Antimony, Total	BML	1.92 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Arsenic III	BML	0.30 µg/L	EPA200.8/HPLC	2/9/2024	KyleThomas
Arsenic, Dissolved	0.52	0.27 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Arsenic, Total	0.53	0.27 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Barium, Dissolved	33.81	0.06 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Barium, Total	34.31	0.06 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Beryllium, Dissolved	BML	2.20 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Beryllium, Total	BML	2.20 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Biochemical Oxygen Demand	2	mg/L	SM5210-B	1/25/2024	HeathBrown
Cadmium, Dissolved	BML	0.08 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Cadmium, Total	BML	0.08 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Chromium, Dissolved	BML	1.64 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Chromium, Total	BML	1.64 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Cobalt, Dissolved	BML	0.17 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Cobalt, Total	BML	0.17 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Copper, Dissolved	BML	0.90 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Copper, Total	BML	0.90 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Cyanide, Total	BML	3.0 µg/L	SM4500-CN-E	2/15/2024	KyleThomas
Fecal Coliform	0	col/100mL	9222D	1/22/2024	HeathBrown
Iron, Dissolved	BML	0.02 mg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Iron, Total	0.07	0.02 mg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Lead, Dissolved	BML	0.31 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Lead, Total	BML	0.31 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Magnesium, Dissolved	16.87	0.08 mg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Magnesium, Total	16.56	0.08 mg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Manganese, Dissolved	BML	0.03 mg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Manganese, Total	0.06	0.03 mg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Mercury, Total	BML	0.010 µg/L	EPA245.7	1/22/2024 6:14:00 PM	KyleThomas
Molybdinum, Dissolved	3.11	0.27 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Molybdinum, Total	3.17	0.27 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas

NA = Not Analyzed ND = No Discharge BML = Below Minimum Level

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Date Printed: 2/22/2024

Nickel, Dissolved	BML	6.86 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Nickel, Total	BML	6.86 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Oil & Grease	BML	5.0 mg/L	EPA1664	1/26/2024	HeathBrown
pH	7.61	s.u.	D1293-B	1/23/2024	DylanGarner
Phenols, Total	BML	6.0 µg/L	EPA420.1	2/14/2024	KyleThomas
Phosphorus, Total	BML	0.06 mg/L	SM4500-P-E	1/31/2024	DylanGarner
Selenium, Dissolved	BML	0.95 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Selenium, Total	BML	0.95 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Silver, Dissolved	BML	0.15 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Silver, Total	BML	0.15 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Solids, Total Suspended	4	mg/L	SM2540-D	1/23/2024	DylanGarner
Sulfate	58	6 mg/L	D516	1/23/2024	DylanGarner
Thallium, Dissolved	BML	0.08 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Thallium, Total	BML	0.08 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas
Total Residual Chlorine	0.09	mg/L	SM4500-Cl-G	1/22/2024	HeathBrown
Zinc, Dissolved	BML	16.45 µg/L	EPA200.8	1/24/2024 6:32:55 PM	KyleThomas
Zinc, Total	BML	16.45 µg/L	EPA200.8	1/24/2024 6:28:57 PM	KyleThomas

Analysis Approved: 2/22/2024

John Morris
Laboratory Manager

NA = Not Analyzed *ND = No Discharge* *BML = Below Minimum Level*

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STILLBROOK

Environmental Testing Laboratory, Inc.

302 Crawford Street
Fairfield, AL 35064
(205) 788-1750

Lab Invoice #: 47209

Client: Mr. John Morris
McGehee Engineering Corporation
P.O. Box 3431
Jasper, AL 35502-3431

Date: February 5, 2024

Project Name: MEC
Project Number: N/A
Project Location: Various
P.O. Number: N/A
Sample Matrix: Water
Sampled By: Various
Date Collected: Various
Test Method: "Standard Methods for the Examination of Water and Wastewater", 20th Edition.
"Methods for Chemical Analysis of Water and Wastes", EPA-600/3-83.

WATER AND WASTEWATER ASSAYS

Lab I.D.: / **Field I.D.:**	114666 / SDC-EFF	*Detection Limit/Units	114667 / SDC-UP	Detection Limit/Units	Method Reference	Date Analyzed	Time Analyzed	Lab Analyst
PARAMETERS		D.L./UNITS		D.L./UNITS	NUMBER	DATE	TIME	ANALYST
Ammonia as N	BDL	0.1 mg/L	BDL	0.1 mg/L	4500NH3-C	26-Jan-24	1400	MD
Bromide, Total	BDL	*20 mg/L	BDL	0.02 mg/L	4110B	26-Jan-24	0900	MD
COD	14	5 mg/L	11	5 mg/L	5220D	29-Jan-24	1700	MD
Fluoride, Total	BDL	*20 mg/L	0.14	0.02 mg/L	4110B	26-Jan-24	0900	MD
Total Organic Nitrogen	0.7	0.1 mg/L	0.6	0.1 mg/L	4500Norg-B	26-Jan-24	1400	MD
NO2+NO3, Total as N	BDL	*20 mg/L	1.04	0.02 mg/L	4110B	26-Jan-24	0900	MD
Sulfide, Total	BDL	0.1 mg/L	BDL	0.1 mg/L	4500S2F	25-Jan-24	1100	MD
Sulfite, Total	BDL	1 mg/L	BDL	1 mg/L	4500SO3B	23-Jan-24	1300	MD
TOC	5	1 mg/L	5	1 mg/L	5310B	23-Jan-24	1700	MD
Color	BDL	25 C.U.	BDL	25 C.U.	2120E	24-Jan-24	1500	MD
MBAS	BDL	0.05 mg/L	BDL	0.05 mg/L	5540C	24-Jan-24	1700	MD
Total Tin	BDL	0.1 ug/L	BDL	0.1 ug/L	200.7	29-Jan-24	1100	MD
Total Borron	BDL	0.02 mg/L	BDL	0.02 mg/L	200.7	29-Jan-24	1100	MD
Total Titanium	BDL	0.001 ug/L	BDL	0.001 ug/L	200.7	29-Jan-24	1100	MD

Detection limit, practical
BDL=Below Detection Limit
*Detection Limit adjusted for sample matrix.

Respectfully submitted,

John T. Brooks
President

STILLBROOK

Environmental Testing Laboratory, Inc.
302 Crawford Street
Fairfield, AL 35064
(205) 788-1750

Lab Invoice #: 47209

Client: Mr. John Morris
McGehee Engineering Corporation
P.O. Box 3431
Jasper, AL 35502-3431

Date: February 5, 2024

Project Name: MEC
Project Number: N/A
Project Location: Various
P.O. Number: N/A
Sample Matrix: Water
Sampled By: Various
Date Collected: Various
Lab Analyst: JTB
Date/Time Analyzed: January 29, 2024 @ 1200
Test Method: "Methods for Chemical Analysis of Water and Wastes", EPA-600/3-83. Method 624.

TTO VOLATILES

Lab I.D.:	114666	114667					Detection Limit
Field I.D.:	SDC-EFF	SDC-UP					
PARAMETERS	ug/L(PPB)	ug/L(PPB)					ug/L(PPB)
Acrolein	BDL	BDL					100
Acrylonitrile	BDL	BDL					5
Benzene	BDL	BDL					5
Bromoform	BDL	BDL					5
Carbon tetrachloride	BDL	BDL					5
Chlorobenzene	BDL	BDL					5
Chlorodibromomethane	BDL	BDL					5
Chloroethane	BDL	BDL					10
Chloroform	BDL	BDL					5
2-Chloroethylvinyl ether	BDL	BDL					10
Dichlorobromomethane	BDL	BDL					5
1,1-Dichloroethane	BDL	BDL					5
1,2-Dichloroethane	BDL	BDL					5
1,1-Dichloroethylene	BDL	BDL					5
1,2-Dichloropropane	BDL	BDL					5
1,3-Dichloropropylene	BDL	BDL					5
Ethylbenzene	BDL	BDL					5
Methyl bromide	BDL	BDL					10
Methyl chloride	BDL	BDL					10
Methylene chloride	BDL	BDL					5
1,1,2,2-Tetrachloroethane	BDL	BDL					5
Tetrachloroethylene	BDL	BDL					5
Toluene	BDL	BDL					5
1,2-trans-Dichloroethylene	BDL	BDL					5
1,1,1-Trichloroethane	BDL	BDL					5
1,1,2-Trichloroethane	BDL	BDL					5
Trichloroethylene	BDL	BDL					5
Vinyl chloride	BDL	BDL					2
Xylenes	BDL	BDL					5

Detection limit, practical
BDL=Below Detection Limit

Respectfully submitted,

John T. Brooks
President

STILLBROOK

Environmental Testing Laboratory, Inc.

302 Crawford Street
Fairfield, AL 35064
(205) 788-1750

Lab Invoice #: 47209

Client: Mr. John Morris
McGehee Engineering Corporation
P.O. Box 3431
Jasper, AL 35502-3431

Date: February 5, 2024

Project Name: MEC
Project Location: Various
Sample Matrix: Water
Sampled By: Various
Lab Analyst: JTB
Test Method: "Methods for Chemical Analysis of Water and Wastes", EPA-600/3-83. Method 625.

Project Number: N/A
P.O. Number: N/A

Date Collected: Various
Date/Time Analyzed: January 30, 2024 @ 1145

TTO BASE/NEUTRAL EXTRACTABLES

Lab I.D.:	114666	114667					Detection Limit
Field I.D.:	SDC-EFF	SDC-UP					
PARAMETERS	ug/L(PPB)	ug/L(PPB)					ug/L(PPB)
Acenaphthene	BDL	BDL					5
Acenaphthylene	BDL	BDL					5
Anthracene	BDL	BDL					5
Benzidine	BDL	BDL					5
Benzo(a)anthracene	BDL	BDL					5
3,4-benzofluoranthene	BDL	BDL					5
Benzo(k)fluoranthene	BDL	BDL					5
Benzo(ghi)perylene	BDL	BDL					1
Benzo(a)pyrene	BDL	BDL					10
Bis(2-chloroethoxy)methane	BDL	BDL					10
Bis(2-chloroethyl)ether	BDL	BDL					5
Bis(2-chloroisopropyl)ether	BDL	BDL					10
Bis(2-ethylhexyl)phthalate	BDL	BDL					5
4-Bromophenyl phenyl ether	BDL	BDL					5
Butyl benzyl phthalate	BDL	BDL					2
2-Chloronaphthalene	BDL	BDL					5
4-Chlorophenyl phenyl ether	BDL	BDL					5
Chrysene	BDL	BDL					5
Dibenzo(a,h)anthracene	BDL	BDL					5
Di-n-butyl phthalate	BDL	BDL					5
1,2-Dichlorobenzene	BDL	BDL					5
1,3-Dichlorobenzene	BDL	BDL					5
1,4-Dichlorobenzene	BDL	BDL					25
3,3-Dichlorobenzidine	BDL	BDL					25
Diethyl phthalate	BDL	BDL					25
Dimethyl phthalate	BDL	BDL					25

Detection limit, practical
BDL=Below Detection Limit

Respectfully submitted,

John T. Brooks
President

ADEM Laboratory Certification I.D.# 40710

STILLBROOK

Environmental Testing Laboratory, Inc.
302 Crawford Street
Fairfield, AL 35064
(205) 788-1750

Lab Invoice #: 47209

Client: Mr. John Morris
McGehee Engineering Corporation
P.O. Box 3431
Jasper, AL 35502-3431

Date: February 5, 2024

Project Name: MEC
Project Location: Various
Sample Matrix: Water
Sampled By: Various
Lab Analyst: JTB
Test Method: "Methods for Chemical Analysis of Water and Wastes", EPA-600/3-83. Method 625.

Project Number: N/A
P.O. Number: N/A

Date Collected: Various
Date/Time Analyzed: January 30, 2024 @ 1145

TTO BASE/NEUTRAL EXTRACTABLES

Lab I.D.:	114666	114667					Detection Limit
Field I.D.:	SDC-EFF	SDC-UP					
PARAMETERS	ug/L(PPB)	ug/L(PPB)					ug/L(PPB)
2,4-Dinitrotoluene	BDL	BDL					10
2,6-Dinitrotoluene	BDL	BDL					10
Di-n-octyl phthalate	BDL	BDL					5
1,2-Diphenylhydrazine	BDL	BDL					10
Fluoranthene	BDL	BDL					5
Fluorene	BDL	BDL					2
Hexachlorobenzene	BDL	BDL					2
Hexachlorobutadiene	BDL	BDL					2
Hexachlorocyclopentadiene	BDL	BDL					5
Hexachloroethane	BDL	BDL					5
Indeno(1,2,3-cd)pyrene	BDL	BDL					5
Isophorone	BDL	BDL					5
Naphthalene	BDL	BDL					5
Nitrobenzene	BDL	BDL					5
N-nitrosodimethylamine	BDL	BDL					10
N-Nitrosodi-n-propylamine	BDL	BDL					10
N-Nitrosodiphenylamine	BDL	BDL					50
Phenanthrene	BDL	BDL					5
Pyrene	BDL	BDL					5
2,3,7,8-Tetrachlorodibenzo-p-dioxin	BDL	BDL					5
1,2,4-Trichlorobenzene	BDL	BDL					5

Detection limit, practical
BDL=Below Detection Limit

Respectfully submitted,

John T. Brooks
President

STILLBROOK

Environmental Testing Laboratory, Inc.

302 Crawford Street
Fairfield, AL 35064
(205) 788-1750

Lab Invoice #: 47209

Client: Mr. John Morris
McGehee Engineering Corporation
P.O. Box 3431
Jasper, AL 35502-3431

Date: February 5, 2024

Project Name: MEC
Project Number: N/A
Project Location: Various
P.O. Number: N/A
Sample Matrix: Water
Sampled By: Various
Date Collected: Various
Lab Analyst: JTB
Date/Time Analyzed: January 30, 2024 @ 1145
Test Method: "Methods for Chemical Analysis of Water and Wastes", EPA-600/3-83. Method 625.

TTO ACID EXTRACTABLES

Lab I.D.:	114666	114667					Detection Limit
Field I.D.:	SDC-EFF	SDC-UP					
PARAMETERS	ug/L(PPB)	ug/L(PPB)					ug/L(PPB)
2-Chlorophenol	BDL	BDL					5
2,4-Dichlorophenol	BDL	BDL					5
2,4-Dimethylphenol	BDL	BDL					50
4,6-Dinitro-o-cresol	BDL	BDL					5
2,4-Dinitrophenol	BDL	BDL					25
2-Nitrophenol	BDL	BDL					5
4-Nitrophenol	BDL	BDL					5
p-chloro-m-cresol	BDL	BDL					5
Pentachlorophenol	BDL	BDL					2
Phenol	BDL	BDL					5
2,4,6-Trichlorophenol	BDL	BDL					5

Detection limit, practical
BDL=Below Detection Limit

Respectfully submitted,

John T. Brooks
President

WARRIOR MET COAL

□ □RRI□R ME□ C□ □L G□S□LLC
S□ □□□ □EERLIC□
N□□ES □ERMI□ M□□

SOUTH DEERLICK NPDES PERMIT BOUNDARY

DSN-004E
DSN-005E
DSN-001E

ND-1
ND-2
NORTH DEERLICK 2 WATER TANKS
11-2-35 USED LUBE OIL
11-1-34 USED OIL
LN-1
LN-2
WARRIOR MET COAL OFFICE
ABANDONED SOUTH DEERLICK SALES STATION (POINT CODE 046800)
ED-2
ED-3
19-4-1
SOUTH DEERLICK COMPRESSOR STATION TO BC 2
EAST DEERLICK WATER TREATMENT FACILITY
25-1 BOOSTER
SOUTH DEERLICK WATER TREATMENT FACILITY
35-6 WATER TANKS

LAKE TUSCALOOSA
HOLT LAKE
BLACK WARRIOR RIVER
WILLIAM BACON OLIVER LAKE

SR
SR
SR

SC□LE IN □EE□

LEGEND

- S□□□□ □EERLIC□ □ □ELL L□C□□□N
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- ELEC□RIC □L□□ ERS
- □□□S□ER C□M□RESS□R S□□□I□N
- □IL □RE□□MEN□ □□CILI□□CR□□E □IL
- □IG RECEIVER
- □ □□ER □□N□□□N
- □ISC□□RGE □□IN□
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- □IR□R□□□ □RIG□□ □ □ □□LE□SE R□□□□
- □□VE□ R□□□
- S□□□□ □EERLIC□ N□□ES □ERMI□□□□N□□R□

PERMITTEE:

WARRIOR MET COAL GAS, LLC

PROJECT:

BLACK WARRIOR RIVER BASIN PROJECT (NPDES No. AL0057312) AND SOUTH DEERLICK CREEK (NPDES No. AL0049760)

TUSCALOOSA, WALKER, AND FAYETTE COUNTIES, ALABAMA

SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN

NOVEMBER 2022

PREPARED BY

McGiffert and Associates, LLC
SINCE 1949
CIVIL ENGINEERS

Table of Contents

Appendices

A. Log of Plan Review and Amendments
B. Site Schematic Drawings
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D. Typical Well Site Plans
E. Secondary Containment Inspection Checklist
F. Secondary Containment Drainage Report
G. Tank & Piping Inspection Checklist
H. Annual Inspection Record
I. Spill Incident Report Form
J. Discharge Prevention Briefing Log
K. Response Equipment Inspection Log

Plan Review and Amendments *§112.5*

A. Non-Technical amendments:

- Non-technical amendments are not certified by a Professional Engineer.
- Examples of such changes include but are not limited to: phone numbers, name changes, or any non-technical text change(s).

B. Technical Amendments:

- Technical amendments are certified by a Professional Engineer
- Examples of such change(s) include but are not limited to:
  - commissioning or decommissioning containers,
  - replacement, reconstruction, or movement of containers
  - replacement, reconstruction, or installation of piping systems
  - construction or demolition that might alter secondary containment structures
  - changes of product(s) or service(s)
  - the addition or deletion of standard operation or maintenance procedures related to discharge prevention measures
- It is the responsibility of the facility to determine and confirm with the regulatory authority what constitutes a technical amendment as necessary.
- An amendment made under this section will be prepared within six (6) months of the change and implemented as soon as possible but no later six (6) months following the preparation of the amendment.
- Technical Amendments affecting various pages within the Plan can be P.E. certified on those pages, certifying those amendments only and will be documented on the log form located in *Appendix A*.

C. Management Review:

- Management will perform a complete review this SPCC Plan at a minimum of every five (5) years and document the review on the form located in *Appendix A*.
- By signing the Log of Plan Review and Amendments form, the signor confirms that management has completed a review and evaluation of this SPCC Plan.

ONSHORE FACILITY - REGULATORY CROSS-REFERENCE		
Citation	**Description**	**Section**
§112.3(d)(1)	Professional Engineer Certification	1.2
§112.5(b)	Management of Plan Review and Amendments	Foreword
§112.7	General Requirements for SPCC Plans for all facilities and all oil types	1.0
§112.7	Management Approval	1.1
§112.7(a)(1)	Discussion of facility's conformance with rule requirements	1.12.1
§112.7(a)(2)	Deviations from Plan requirements	1.12.1
§112.7(a)(3)	Description of facility characteristics and facility diagrams	1.6.1, 1.6.2
§112.7(a)(3)(i)	Containers and Capacity	1.6.3
§112.7(a)(3)(ii)	Discharge Prevention Measures	1.7.1
§112.7(a)(3)(iii)	Discharge or Drainage Controls	1.7.2
§112.7(a)(3)(iv)	Discharge Discovery Response and Cleanup	1.8, 1.8.1
§112.7(a)(3)(v)	Disposal of Recovered Material	1.8.2
§112.7(a)(3)(vi)	Contact List and Phone Numbers	1.4
§112.7(a)(4)	Spill reporting information	1.6.2,1.6.3
§112.7(a)(5)	Emergency Response procedures	1.6.2,1.6.3
§112.7(b)	Experience Indicating Potential Failure	1.7.4
§112.7(c)	Secondary Containment and Diversionary Structures	1.7.2, 1.7.3
§112.7(d)	Impracticability and Contingency planning	1.11
§112.7(e)	Inspections, Tests, and Records	1.9
§112.7(f)	Personnel, Training, and Discharge Prevention Procedures	1.5
§112.7(g)	Security (excluding oil producing facilities)	1.10
§112.7(h)	Loading/Unloading racks	1.7.1
§112.7(j)	Conformance with State requirements	1.12.2
§112.8(a)	General Requirements	2.0
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§112.8(b)(3&4)	Facility Drainage (undiked area)	1.7.3
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§112.8(c)(10)	Address Visible Discharge	2.8
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§112.8(d)(3)	Proper Design	1.7.2
§112.8(d)(4)	Regular Testing and Inspection	2.10
§112.8(d)(5)	Vehicle Warnings	1.7.1

SECTION 1

General Requirements

1.0 General Information

§112.7

Warrior Met Coal Gas, LLC (WMCG) is concerned with the protection of human health and the environment and is committed to managing its operation in an environmentally safe manner. WMCG will operate in such a manner as to protect the health and safety of its employees, contractors and the public, as well as the environment. WMCG's goal through this Spill Prevention Control and Countermeasures Plan (SPCC) is to establish procedures, equipment, and other requirements to prevent the discharge of "oil" and chemicals from this project into waters of the United States. ("Oil" means oil of any kind or in any form, including but not limited to petroleum, fuel oil, sludge, oil refuse, and oil mixed with wastes other than dredged spoil.)

1.1 Management Approval

§112.7

Management Approval

I hereby approve the contents of the facility's Spill Prevention Control and Countermeasure Plan (SPCC Plan) and have a level of authority to commit the necessary resources to implement the SPCC Plan, as set forth in this document, in accordance with the federal requirements of 40 CFR Part 112.

Signature: Charles Hamner Date: 11-16-2022
Company: Warrior Met Coal Gas, LLC
Name: Charles Hamner
Title: General Manager

1.2 Professional Engineer Certification

§112.3(d)(1)

Professional Engineer Certification

By means of this Professional Engineer Certification, I hereby attest, to the best of my knowledge and belief, to the following:

- I am familiar with the requirements of 40 CFR Part 112 and have verified that this Plan has been prepared in accordance with the requirements of this Part.
- I or my agent have visited and examined the facility(s).
- I have verified that the Plan is adequate for the facility

Signature:
Company: McGiffert & Associates, LLC
Name: Q. Hansel Stewart, PE
AL Reg. No.: 30097-E

(Seal)
Date: 11-16-22

As stated in the §112.3(d)(2), this certification will in no way relieve the owner of this facility of his duty to prepare and fully implement this SPCC Plan in accordance with the requirements of part 112.

1.3 Substantial Harm Certification

§112 Attachment CII

CERTIFICATION OF THE APPLICABILITY
OF THE SUBSTANTIAL HARM CRITERIA CHECKLIST

FACILITY NAME:
Black Warrior River Basin Project
& South Deerlick Creek

FACILITY ADDRESS:
12031 Lake Nicol Road; Tuscaloosa, AL 35406

Yes___ No _X_ 1. Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

Yes___ No _X_ 2. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?

Yes___ No _X_ 3. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the formula in Attachment C-III, Appendix C, 40 CFR 112 or a comparable formula[1]) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments? For further description of fish and wildlife and sensitive environments, see Appendices I, II, and III to DOC/NOAA's "Guidance for Facility and Vessel Response Environments" (Section 10, Appendix E, 40 CFR 112 for availability) and the applicable Area Contingency Plan.

Yes___ No _X_ 4. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula (Attachment C-III, Appendix C, 40 CFR 112 or a comparable formula 1) such that a discharge from the facility would shut down a public drinking water intake[2]?

Yes___ No _X_ 5. Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a reportable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Charles Hamner
Name (please type or print)

Charles Hamner
Signature

General Manager
Title

11-16-2022
Date

[1]If a comparable formula is used, documentation of the reliability and analytical soundness of the comparable formula must be attached to this form.

[2]For the purposes of 40 CFR part 112, public drinking water intakes are analogous to public water systems as described at 40 CFR 143.2(c).(from 40 CFR 112 Appendix C, Attachment C-II)

1.4 Contact List and Phone Numbers Procedures

§112.7(a)(3)(vi)

In the event of an oil or chemical spill call one of the following in the order listed:

A) Name: Charles Hamner, General Manager
Warrior Met Coal Gas, LLC
12031 Lake Nicol Road
Tuscaloosa, AL 35406
Phone: (205) 247-4256 (main office)

B) Name: Jack Richardson, President & Chief Operating Officer
Warrior Met Coal Gas, LLC
16243 Highway 216
Brookwood, AL 35444
Phone: (205) 554-6150 (main office)

C) Name: Alabama Department of Environmental Management (ADEM)
110 Vulcan Road
Birmingham, AL 35209
Phone: (205) 942-4378 (8:00 AM-5:00 PM, Monday-Friday)
(205) 933-0360 (After Normal business hours)

E) Name: EMA
Phone: (800) 843-0699

F) Name: National Response Center
Phone: (800) 424-8802

1.5 Personnel, Training, and Discharge Prevention Procedures *§112.7(f)*

WMCG shall be responsible for properly instructing employees in the operation and maintenance of equipment to prevent a discharge in accordance with this SPCC Plan and State and Federal regulations. All personnel, including contract personnel involved with oils or chemicals, will be trained and be familiar with this Plan. This includes personnel that handle, whether directly or indirectly, oils or chemicals covered by this SPCC Plan.

WMCG shall schedule and conduct discharge prevention briefings for personnel at intervals frequent enough to maintain the knowledge and skills necessary to execute the provisions of this SPCC Plan. The briefings will include the review of events that have occurred on the site, equipment failures and malfunctions, and newly adopted preventive measures. Meetings will be recorded on the Discharge Prevention Briefing Log located in *Appendix J.* Mr. Charles Hamner, General Manager with WMCG, will designate a company employee as the facility supervisor responsible for discharge prevention at each facility.

1.6 Facility Layout and Information

1.6.1 Facility Layout *§112.7(a)(3)*

WMCG operates coalbed methane gas production wells in Tuscaloosa, Walker, and Fayette Counties, Alabama that consists of over 1,000 wells and associated storage and treatment facilities within the Black Warrior River Basin and South Deerlick Creek fields. Multiple facility sites that store oil or chemicals in aboveground tanks have been evaluated and included in this SPCC Plan. These facility sites include 16 compressor station sites, 15 produced water holding sites, and 6 crude oil storage locations. The field covers a large geographic area predominantly located North of Lake Tuscaloosa around Alabama Highway 69 and West of the Black Warrior River. There is a field office located at 21642 Highway 69 North; Berry, AL 35546, with the main office is located at 12031 Lake Nicol Road; Tuscaloosa, Alabama 35406.

BLACK WARRIOR RIVER BASIN PROJECT AND SOUTH DEERLICK CREEK FACILITY SITE LOCATIONS:

1. **Allgood 1**, Section 13, T 19 S, R 9 W, Tuscaloosa County
2. **Cassidy 2**, Section 36, T 18 S, R 9 W, Tuscaloosa County
3. **Cassidy 4**, Section 6, T 19 S, R 8 W, Tuscaloosa County
4. **Cassidy 6**, Section 20, T 18 S, R 8 W, Tuscaloosa County
5. **Cassidy Sales 2**, Section 34, T 18 S, R 9 W, Tuscaloosa County
6. **East Deerlick 2**, Section 18, T 20 S, R 8 W, Tuscaloosa County
7. **Lake Nicol 1**, Section 11, T 20 S, R 9 W, Tuscaloosa County
8. **North Deerlick Creek 2**, Section 1, T 20 S, R 9 W, Tuscaloosa County
9. **South Deerlick Compressor Station**, Section 23, T 20 S, R 9 W, Tuscaloosa County
10. **Warrior Ridge 1**, Section 25, T19 S, R 9 W, Tuscaloosa County
11. **West Warrior Ridge 1**, Section 23, T 19 S, R 9 W, Tuscaloosa County
12. **West Warrior Ride 2-A**, Section 27, T 19 S, R 9 W, Tuscaloosa County
13. **West Whitson**, Section 14, T 18 S, R 10 W, Tuscaloosa County
14. **West Yellow Creek 1**, Section 19, T 18 S, R 8 W, Tuscaloosa County

15. **Whitson Compressor Sales Station,** Section 35, T 17 S, R 9 W, Tuscaloosa County
16. **Yellow Creek 1**, Section 16, T 18 S, R 8 W, Tuscaloosa County
17. **Allgood Water Treatment Facility,** Section 18, T 19 S, R 8 W, Tuscaloosa County
18. **Blue Rock Pit Water Tanks**, Section 25, T 18 S, R 9 W, Tuscaloosa County
19. **Chevron 1-12-15 Water Tanks (Red Hill),** Section 1, T 18 S, R 9 W, Tuscaloosa County
20. **Chevron 13-16-109 Water Tanks,** Section 13, T 17 S, R 9 W, Tuscaloosa County
21. **Chevron 29-15-358 Water Tanks,** Section 29, T 17 S, R 9 W, Tuscaloosa County
22. **East Deerlick Water Treatment Facility**, Section 17, T 20 S, R 8 W, Tuscaloosa County
23. **Jolen 27-4-949 Tank Site,** Section 27, T 18 S, R 10 W, Tuscaloosa County
24. **Million Dollar Hill Water Tanks,** Section 19, T 18 S, R 8 W, Tuscaloosa County
25. **North Cassidy Water Treatment Facility**, Section 22, T 18 S, R 8 W, Tuscaloosa County
26. **Ramsay-McCormack 35-6 #4 Water Tanks,** Section 35, T 20 S, R 9 W, Tuscaloosa County
27. **South Cassidy Water Treatment Facility**, Section 32, T 18 S, R 8 W, Tuscaloosa County
28. **South Deerlick Water Treatment Facility**, Section 26, T 20 S, R 9 W, Tuscaloosa County
29. **West Whitson Water Treatment Facility**, Section 14 T 18 S, R 10 W, Tuscaloosa County
30. **West Yellow Creek 1 Water Tanks**, Section 19, T 18 S, R 8 W, Tuscaloosa County
31. **Whitson Water Treatment Facility,** Section 36, T 17 S, R 9 W, Tuscaloosa County
32. **No. 1 Pig Receiver**, Section 5, T 19 S, R 8 W, Tuscaloosa County
33. **Oil Treatment Facility**, Section 5, T 19 S, R 8 W, Tuscaloosa County
34. **WMCG Field Office (Whitson),** Section 27, T 19 S, R 9 W, Tuscaloosa County
35. **WMCG Main Office,** Section 14, T 20 S, R 9 W, Tuscaloosa County
36. **Whitson DOT Pig Receiver**, Section 34, T 18 S, R 9 W, Tuscaloosa County
37. **West 11-2-35 Crude Oil**, Section 11, T 20 S, R 9 W, Tuscaloosa County

Each of the above site layout and configuration is shown on the attached Site Schematic Drawings located in *Appendix B.*

The degasification wells produce methane gas which flows from the well head to separators, compressor stations, and dryers' prior to entering the designated sales facility. In addition, water produced from the wells and collected via a gathering system of pipelines is conveyed to holding tanks or holding ponds prior to being transferred to an NPDES Permitted waste water treatment facility and discharged to the Black Warrior River following the treatment process.

1.6.2 Facility Diagrams

§112.7(a)(3) & §112.7(b)

See *Appendix B* for the Site Schematic Drawings that include the physical layout of the facility marking the general location and contents of each storage container.

1.6.3 Storage Tanks

§112.7(a)(3)(i)

See *Appendix C* for the Storage Tank Information Charts that include the containers, secondary containment, capacity, material, and contents of each individual facility. These tank and containment locations are shown on each individual Site Schematic Drawing, which are located in *Appendix B.*

1.7 Discharge prevention

1.7.1 Discharge Prevention Measures *§112.7(a)(3)(ii)*

Measures will be taken by WMCG to prevent potential discharges of oil or chemicals at the facility. The following items include measures that should be evaluated to aid in preventing discharges:

- Terminal connections
- Oil or chemical transferring, loading, and unloading
- Aboveground pipeline and valves inspections
- Pipeline support design
- Aboveground pipeline protection

Terminal connections:

All pipelines with points of connection that may be used periodically and are in not in service for extended periods of time should be capped or blank-flanged at the transfer point were hoses are typically attached. The securing of these terminal connections will seal the pipeline and prevent spills from an accidental opening of a valve or potential future operational modification that could inadvertently load the subject line and transfer point.

Oil or chemical transferring, loading, and unloading:

Effort should be made by WMCG personnel to oversee any vendors that may load or unload oil at the facility. Before delivering any oil or chemical, the vendor should check tank levels or contact WMCG personnel to verify adequate space for the delivery. WMCG shall brief the vendor of proper techniques in loading the tank, including a step-by-step sequence of hose connection location, valve operation, and gauge level reading or tank probe alarm awareness if they exist. Unloading of oils or contained liquids by any vendor or WMCG employee will be performed using sequences of hose connection, valve operation, and tank level reading that have been specifically developed for each tank or individual facility.

The transferring of oil from one tank to another through a permanent transfer pump and pipe system or through temporary hoses to a portable transfer tank should be performed in a manner approved by WMCG that identifies procedures involving valve operation and sequencing of any new connections. Signs will be posted at the facility that will remind and prohibit the moving of portable tanks connected to vehicles prior to properly disconnecting transfer hoses and closing valves. The intent of the postings should direct the operating personnel to examine the fittings, connections, valves, pipelines, hoses, and drains for any signs of potential leaks before loading/unloading or departure.

WMCG personnel utilize mobile trailers to transfer slop oil from collection tanks and used engine oil from compressor and well sites. These mobile utility trailers are equipped with plastic storage tanks for temporary holding during the transporting of used oil to oil handling facilities. Generally, oil is not stored within the portable tanks so that the potential for leaks or spills are reduced. Leaks that could occur are then more visibly noticeable while actively in use. If temporary oil storage is

necessary within the tanks while unattended, the mobile trailers will be stored within adequately sized containment areas at the oil handling facility.

Aboveground pipeline and valves inspections:

Valves and piping will be inspected on a normal schedule to evaluate and record their condition as well as associated flanges, expansion joints, pipe supports, locking valves status, and leaking residue at locations where there is a potential for leaking. These inspections should be performed by WMCG personnel that are familiar with the piping system, operation and, product that is being piped. The results of the inspection will be recorded on the attached form located in *Appendix G.*

Pipeline support design:

Effort should be taken when designing or maintaining pipeline supports to evaluate material use and the potential for abrasion and corrosion. Cushions should be utilized between the piping and the support to reduce the potential for leaks caused by corrosion or abrasion.

Aboveground pipeline protection:

Guardrails, guard posts, or other barriers should be used to protect any above ground piping from traffic when a potential for damage exists. Structurally competent protection as well as warning signs should especially be implemented in areas where piping is located outside of the secondary containment.

1.7.2 Secondary Containment Structures *§112.7(a)(3)(iii) &112.8(b)(1 and 2)*

This SPCC provides for the containment of various sizes of fuel, oil, gasoline, waste oil, separators, line heaters, and chemical tanks whose construction material is compatible with the product being stored and are located above ground at the facilities. The area around pressurized vessels and other above ground tanks is enclosed by a complete drainage trench and/or containment dike or wall arranged so that the spill will terminate and be safely confined within the retaining walls or in a containment area. The aboveground tanks at the facility sites are shown on the attached Site Schematic Drawings in *Appendix B*, and are located within secondary containment areas constructed with steel, concrete, but typically an earthen soil berm. The installation of secondary containment for pipelines within Right-of-Ways is not practical due to the extreme elevation changes and continual flow of product.

The earthen containment berms are made of a clayey soil with a low permeability and will be maintained with like cohesive soil material as needed when repairs are required due to settlement or damage that might reduce the holding capacity. The earthen berms should not exceed a 2 to 1 (Horizontal to Vertical) slope embankment with a top minimum width of 2 feet. Protection of the soil containment berm from erosion and weathering is maintained and consists of a stabilizing stone cover, vegetation, or HDPE plastic material.

The secondary containment areas have been sized to provide a minimum of 110 percent of the largest tank or greater and noted on the facility diagrams. A spill or inadvertent release from the tanks will be contained within the secondary containment area. Any spill or leak will be properly

removed and the containment area cleaned to provide for the required storage capacity and prevent collected stormwater contamination.

Small amounts of precipitation will evaporate or absorb into a soil bottom. However, drainage of stormwater could be required at impermeable secondary containment structures or earthen containment structures when significant amounts of precipitation occurs. A secondary containment drain exists within most of the containment areas to allow for draining accumulated stormwater. All drain valves will stay closed in a locked position, or will be plugged and capped. Any stormwater will be inspected for the presence of oil or other chemicals that could contaminate the water or create a sheen that is visible. Any presence of a sheen or contaminate will require further investigation, sampling, and potential cleanup prior to a release of the stormwater. The containment area should be inspected on a regular frequency for the presence of stormwater that would reduce the capacity of the containment area in the event of a spill.

The routine secondary containment inspection will be performed utilizing the attached Secondary Containment Inspection Checklist located in *Appendix E*, and any release of drainage from the secondary containment will be recorded on the attached Secondary Containment Drainage Report located in *Appendix F*.

1.7.3 Diversionary Structures and Equipment *§112.7(c)*

WMCG has sixteen (16) compressor station sites and fifteen (15) water storage sites presently in use. A few of these compressors and water storage components are jointly located on a facility site location. The typical compressor station site has provisions for compressors and associated storage tanks. All compressors are mounted on a skid "drip pan" which captures and/or drains leaks and spills during operation and maintenance. These compressor station sites have several different of leak/spill collection systems for the compressors and associated storage tanks located within the facilities as follows:

a) Gravity Slop Tank: This collection system consists of a skid "drip pan" which captures and gravity drains leaks and spills to a waste oil sump tank. The skid is placed on stone stabilization that can be removed and properly disposed in the event of a leak. Drips or leaks from the compressor, piping, and fittings is collected by the skid "drip pan" and transferred for storage in the sump tank that is regularly monitored. Removal of product is scheduled when 50 percent capacity is reached. The sump is covered with a steel lid and is higher in elevation than the surrounding topography to prevent surface stormwater from entering the sump tank that is partially or completely buried.
b) Catchment Bucket: This collection system consists of a skid "drip pan", which captures and drains leaks and spills to a catchment-bucket that is manually monitored and manually dumped into a waste oil tank at the respective facility. Drips or leaks from the compressor, piping, and fittings is collected by the catchment-bucket and dumped a minimum of once each day to minimize the potential for an overflow discharge of oil or other related chemical at the facility.
c) Booster Containment Pan: This collection system consists a skid "drip pan", which captures and contains any oil that drips and/or leaks from the compressor, piping, and fittings. These boosters are observed daily for leaks and/or drips. Oil that accumulates within these skids are

collected by absorbent pads or by pumping operation to a mobile trailer, discussed in Section 1.7.1, and transferred to an oil handling facility as needed. Any drips or leaks from the compressor, piping, and fittings is collected by the skid, monitored daily to minimize the potential for a discharge of oil or other related chemicals at the facility, and accumulated product removed and maintained as needed.

Most compressors are protected with metal sheds to help prevent stormwater inundation during rain events, which reduces the potential for oil-water emulsion from the skid overwhelming the drip pans and tanks/buckets and contaminating the site. There is typically an oil lube tank located by a portion of each compressor skid or within an individual secondary containment. In the event of a leak or spill at any of these compressor facilities, measures will be implemented as discussed in Section 1.8 of this document. Absorbent pads will be readily available and utilized as needed to soak up and contain in place any leaked or spilled engine oil associated with individual compressor stations.

Individual sites that contain storage tanks and secondary containment consisting of earthen berms have been graded so that stormwater is diverted away from structures to the site discharge point(s). Only rain that falls directly into the containment areas at these locations is collected within the containment areas, and adjacent stormwater runoff is diverted around these areas to protected discharge points that utilize vegetation or rip-rap to reduce stormwater velocity prior to discharge.

Well site locations are initially constructed with a reserve pit and a berm around the perimeter of the work area which allows drainage to the reserve pit. The reserve pit and berm will be utilized during the drilling and completion operations. These serve to contain spills of oil, chemicals, or drilling fluids. See McGiffert and Associates, LLC Dwg. No. 153-22 Sheet 1 of 3, for a typical well site plan during drilling/completion (*Appendix D*). The reserve pit will be constructed to have a retention volume to contain all spills within the well site and still maintain a 2-foot freeboard. In the event the reserve pit cannot maintain an operating level of 3 feet, the pit will be pumped down and the fluid removed to an approved disposal facility or a second pit will be constructed. See McGiffert and Associates, LLC Dwg. 153-22 Sheet 2 of 3 for retention structure design data (*Appendix D*). Once the well site has been completed and is ready to enter production, the site will be grassed and stabilized around the perimeter. See McGiffert and Associates, LLC Dwg. No. 153-22 Sheet 3 of 3, for a typical completed well site (*Appendix D*).

1.7.4 Experience Indicating Potential Failure *§112.7(b)*

Historically there have been minor releases of produced oil/water at various well locations. This is attributed largely to produced water leaking from the wellhead packing that could contain some oil/water emulsion. WMCG is aware of the potential for release at these locations and continually monitors well sites for possible failure locations.

Experience does not indicate a potential for equipment failure at the facility sites under ownership and operation by WMCG. If equipment used in the loading or unloading of oils or chemicals causes a tank to overflow, rupture, or leak; the equipment should be evaluated for issues that could occur in a similar fashion in the future. If this occurs at any of the sites, this Plan should be updated to

include a prediction of the failure and associated possible flow rate, total quantity, and direction of spill release travel.

1.8 Spill Response and Cleanup

§112.7(a)(iv)

1.8.1 Response

§112.7(a)(4) & §112.7(a)(5)

In the event of an oil or chemical spill call the person listed on the contact list located in section 1.4 of this SPCC to receive further instructions. The employee on duty will be trained to attempt to stop the continuation of the discharge and begin the response process to minimize the impact area and start cleanup actions. WMCG shall maintain onsite or have readily available absorbent pads, solidifiers, and granular absorbents, as well as containment booms and sufficient material to contain and absorb fuel and chemical spills and leaks. A record of response equipment inspections, located in *Appendix K,* will be maintained to insure proper materials, accessibility, and operation.

ADEM must be notified when a spill or leak reaches a receiving water and creates the potential for polluted or degraded water quality. In addition, ADEM should be notified when 300 c.y. of material is contaminated by a petroleum spill or when the reportable quantity of a chemical is spilled. Report the following information:

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

In the event of a discharge or spill take the following actions:

1. Take prompt necessary measures to stop the discharge such as turning of pumps, shutting valves, or isolating lines.
2. Identify the source of the discharge, type of liquid discharged, and an approximate volume of discharge.
3. Evaluate the possibility of a fire hazard to inform the Fire Department accordingly.
4. Evaluate the potential risks to persons located on property surrounding the discharge. Notify emergency personnel accordingly.
5. Take action to contain the discharge on site by use of temporary dams or absorbent materials such as sand, booms, or pads to soak up and contain the spill in place.
6. Once the spill is contained, place the absorbed material in appropriate drums or containment areas on the site prior to properly disposing in an ADEM approved manner.

1.8.2 Cleanup

§112.7(a)(4) & §112.7(a)(5) & §112.8(c)(10)

If a spill, either within or adjacent to secondary containment structures, should occur, the usable oil or chemical will immediately be transferred to other storage containers. The unusable wastes resulting from oil or chemical spills will be treated, disposed of and/or reused in accordance with applicable Alabama Department of Environmental Management (ADEM) regulations.

Records documenting oil or chemical spills shall be maintained for a minimum of three years by WMCG Management. The records document should include dates of spills, corrective actions, disposal records, characterization records, and clean-up procedures. It will also include the cause of the spill and the corrective actions to prevent its reoccurrence. See *Appendix I* of this Plan for the Spill Incident Report Form.

1.9 Inspections Tests and Records

§112.7(e)

WMCG will take an active approach with evaluations to prevent the potential for a discharge of oil or other related chemicals at the facility. This includes the evaluation and recording required by Secondary Containment Inspection Checklist (*Appendix E*), the Secondary Containment Drainage Report (*Appendix F*), the Tank & Piping Inspection Checklist (*Appendix G*), and the Annual Inspection Record (*Appendix H*). The secondary containment, tanks, piping, and containment drainage should be inspected on a quarterly basis by the facility site supervisor. All of the facilities should be inspected on an annual basis, following the annual inspection record located in *Appendix H,* by the facility site supervisor and the field manager or appointed representative to identify any potential issues not recognized during the quarterly inspections.

WMCG will properly maintain tanks and keep them in good condition. Tanks should be subject to periodic integrity testing, taking into account tank design and using such techniques as hydrostatic testing, visual inspection, or a system of non-destructive shell thickness testing. Comparison records should be kept where appropriate, and tank supports and foundations should be included in these inspections. In addition, the outside of the tank should frequently be observed by operating personnel for signs of deterioration, leaks which might cause a spill, or accumulation of oil inside dike areas.

1.10 Security

§112.7(g)

WMCG is aware that the implementation of security measures at facility sites must be tailored to specific needs based on equipment conditions, construction activities, and the surrounding residents. Each site has been examined for the adequacy of implemented security measures and the need of additional measures will be continually monitored. In the event that additional security measures are required at a facility site, WMCG shall immediately implement the necessary additions in order to protect the site, equipment, and attempt to prevent possible discharge that could occur due to vandalism. The following list is examples of security measures that are currently in place at individual facility sites:

1. Fences – security fences around the perimeter of the sites have been constructed to restrict access.

2. The secondary containment areas that are equipped with a drain are closed and in the locked position. Drains without a valve have been plugged with a cap.
3. Master flow valves are securely locked in the closed position to reduce the potential for vandalism.
4. The facility sites are illuminated after dark by lights so that a discharge may be discovered and vandalism discouraged.

1.11 Impracticality

§112.7(d)

The measures noted in 40 CFR 112 are practical and relative to this Plan.

1.12 Conformance and Deviation

1.12.1 Conformance with Rule Requirements

§112.7(a)(1)&(2)

WMCG has prepared this Plan with the intention to conform to all the requirements set forth by the 40 CFR Part 112. WMCG has attempted to operate and maintain the facility covered by this Plan in accordance with this Plan and all State of Alabama and Federal regulations regarding spill prevention control and countermeasure requirements.

1.12.2 Conformance with Other Applicable Requirements

§112.7(j)

This SPCC Plan conforms to the requirements set forth by the 40 CFR 112. This Plan does not incorporate any additional requirements of the city or county in which the facility is located. If WMCG becomes aware of any deviations following the implementation of this Plan, WMCG will review and amend the Plan as necessary.

SECTION 2

Onshore Facilities

(excluding production facilities)

2.0 General Requirements *§112.8(a)*

WMCG shall operate in compliance with the requirements of Section 112.7, as outlined in this SPCC Plan, and the specific discharge prevention and containment listed in Section 112.8 as set forth below.

2.1 Facility Drainage *§112.8(b)(1&2)*

2.1.1 Drainage from Diked Areas

Drainage within diked areas is discussed in detail in Section 1.7.2. Flapper valves are not used in secondary containments areas.

2.1.2 Drainage from Undiked Areas

A majority of aboveground piping is located within the secondary containment area and will be contained if a leak occurs. Areas outside of the containment areas are where piping is underground. The location where loading of portable tanks or trucks occur is within a diversionary structure area and the potential for a discharge is discussed in Section 1.7.1 of this Plan.

2.2 Bulk Storage Containers *§112.8(c)(1)*

The storage tanks located at the facility sites are constructed of steel, plastic, and fiberglass, which are appropriate materials used for storing petroleum and chemical products under variable climate temperatures. The tanks used have been designed not to add pressure to the tank other than from the petroleum contained within it.

2.3 Secondary Containment Areas

2.3.1 Containment Area Capacity *§112.8(c)(2)*

The area around the above ground tanks is enclosed by a complete diversionary structure and/or containment dike or wall arranged so that the spill will terminate and be safely confined within the retaining walls or in a containment area. The containment area exceeds the volume of the largest tank by 10%. This is addressed in section 1.7.2 of this Plan.

2.3.2 Containment Stormwater Control *§112.8(c)(3)*

This is addressed in section 1.7.2 of this Plan and provides a method of inspection and discharge of precipitation in accordance with the sheen rule and 40 CFR 112.7(a)(3)(iii).

2.4 Tank Protection and Testing *§112.8(c)(4&5)*

There are no underground or partially buried storage tanks at this facility. A concrete pad and metal containment have been provided at each compressor location to collect operation residuals from the compressor skids. The concrete collection systems will be visually inspected on a regular as needed basis to determine the required maintenance. The concrete and metal collection systems are open to atmospheric pressure; therefore, leaks should be visible on the surface of the structure.

2.5 Leakage from Heating Coils *§112.8(c)(7)*

Heating coils are not used at this facility.

2.6 Update or Engineer Containers to Avoid Discharge *§112.8(c)(8)(iv)*

WMCG uses direct vision gauges and visual gauging as a fast response system for determining the liquid level of bulk storage containers. A WMCG employee must be present to monitor the filling, unloading, and transfer operations of each bulk storage container.

2.7 Visual Observation Requirements *§112.8(c)(9)*

WMCG does not use an oil effluent treatment system at this facility.

2.8 Promptly Address Visual Discharges *§112.8(c)(10)*

This is addressed in section 1.7.2 of this Plan. Any visual discharge resulting in a loss of a petroleum product or chemical from a container seam, gasket, piping, pump, valves, rivets, bolts, or any other connection to the container should be immediately cleaned up. The containment area should also be cleaned as well to remove any accumulation or liquid and prevent contamination with stormwater or soaking into an earthen containment area.

2.9 Mobile or Portable Storage Containers *§112.8(c)(11)*

WMCG utilizes aboveground storage containers that are within the secondary containment areas which are shown on the site schematic drawings located in *Appendix B* of this Plan. Any portable containers used will be loaded and unloaded as discussed in section 1.7.1 of this Plan.

2.10 Facility Transfer Operations *§112.8(d)(1,2,& 4)*

Loading and/or off-loading of oils or chemicals to and/or from transport vehicles will meet applicable requirements of the Occupational Safety and Health Administration and the Department of Transportation. Truck drivers should follow correct operating procedures when unloading diesel fuel, gasoline, waste oil and chemicals and stay with the equipment at all times during unloading operations. Periodic visual inspection of liquid level indicators will be performed by the assigned Production Supervisor, or his designee, to help reduce the likelihood of an accidental spill. Periodic inspection of transport unloading hoses, the replacement of hoses as necessary, and use of the proper hose drainage procedure to prevent hose rupture during unloading and spillage from hoses after disconnection will be implemented as preventive operation procedures. All aboveground valves, piping and appurtenances will be regularly inspected to assess the general condition. All aboveground storage tanks, valves, aboveground piping, spill containment, dispensers, and emergency response equipment and supplies will be inspected and a log will be maintained in the forms located in *Appendix E, G, H, and K* to record the inspections. WMCG will visually examine and pressure test individual elements as frequently as needed to insure preventive maintenance practices.

APPENDIX A
Log of Plan Review and Amendments

Log of Plan Review & Amendments

Warrior Met Coal Gas, LLC – BWRB & SDL Field Facilities

Tuscaloosa, Walker, and Fayette Counties

Facility 5 Year Reviews

Complete Plan Review and Evaluation Required every 5 years from initial development or previous review

Review and Evaluation Date	Name, Title, Signature	Plan Amendment Required (Yes/No)	Description of Review/Amendment	Amendment			
				Date	Pages	PE Cert (Yes/No)	Implemented Date

This SPCC Plan should be reviewed and amended in accordance with 112.5 when there is a change in the facility design, construction, operational maintenance that materially affects its potential for a discharge or at least once every five years.

Facility Changes Record

Have changes to the facility design, construction, operation, or maintenance occurred

2022			2023			2024			2025			2026		
Quarterly Check (Date)	Yes	No	Quarterly Check (Date)	Yes	No	Quarterly Check (Date)	Yes	No	Quarterly Check (Date)	Yes	No	Quarterly Check (Date)	Yes	No

• If Yes Review and Evaluation Required

• If no Plan is Current

Log of Plan Review & Amendments

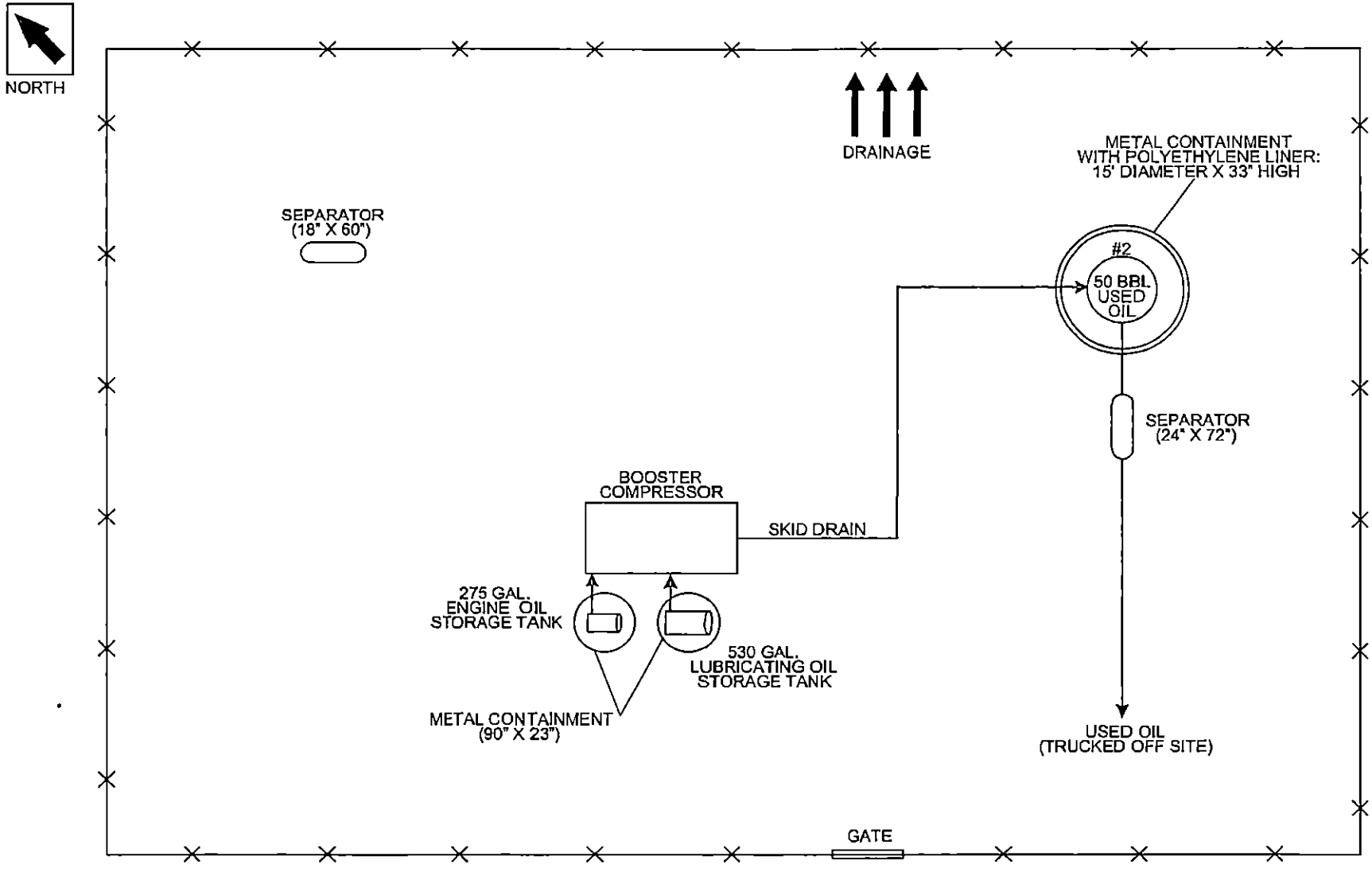
Warrior Met Coal Gas, LLC - BWRB & SDL Field Facilities

Tuscaloosa, Walker, and Fayette Counties

Facility Changes Review/Amendment

Facility Changes		Review and Evaluation of Plan (Date)	Name, Title, Signature	Plan Amendment Required (Yes/No)	Description of Review/Amendment	Amendment			
Date	Description					Date	Pages	PE Cert (Yes/No)	Implemented Date

APPENDIX B
Site Schematic Drawings



LATITUDE	33.394286 N
LONGITUDE	-87.434934 W

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

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ALLGOOD I COMPRESSOR STATION

WARRIOR MET COAL

TUSCALOOSA COUNTY — SECTION 13, TOWNSHIP 19 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 1 of 16	
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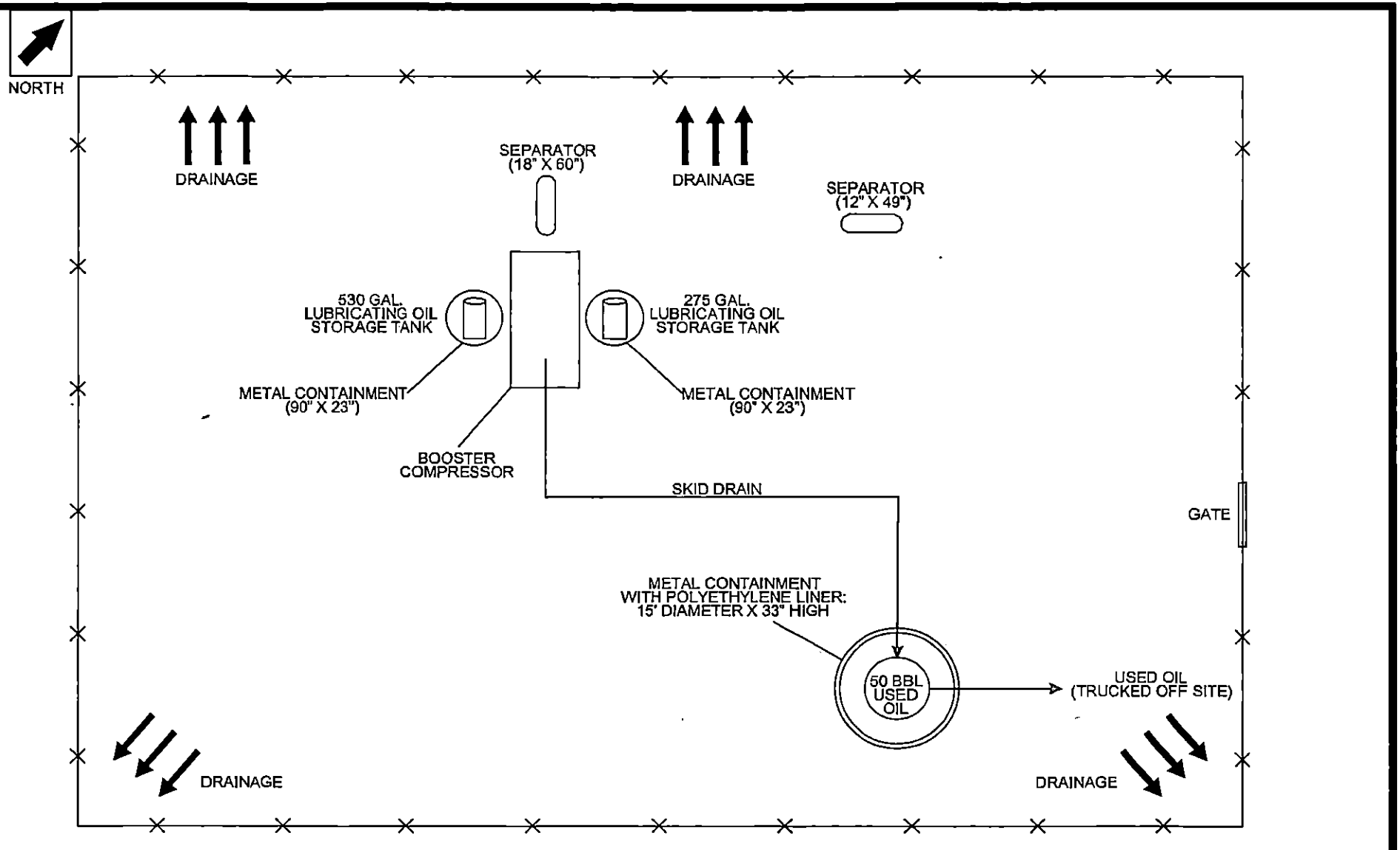

LATITUDE	33.429854 N
LONGITUDE	−87.424186 W

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WARRIOR MET COAL

TUSCALOOSA COUNTY — SECTION 36, TOWNSHIP 18 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 2 of 16	
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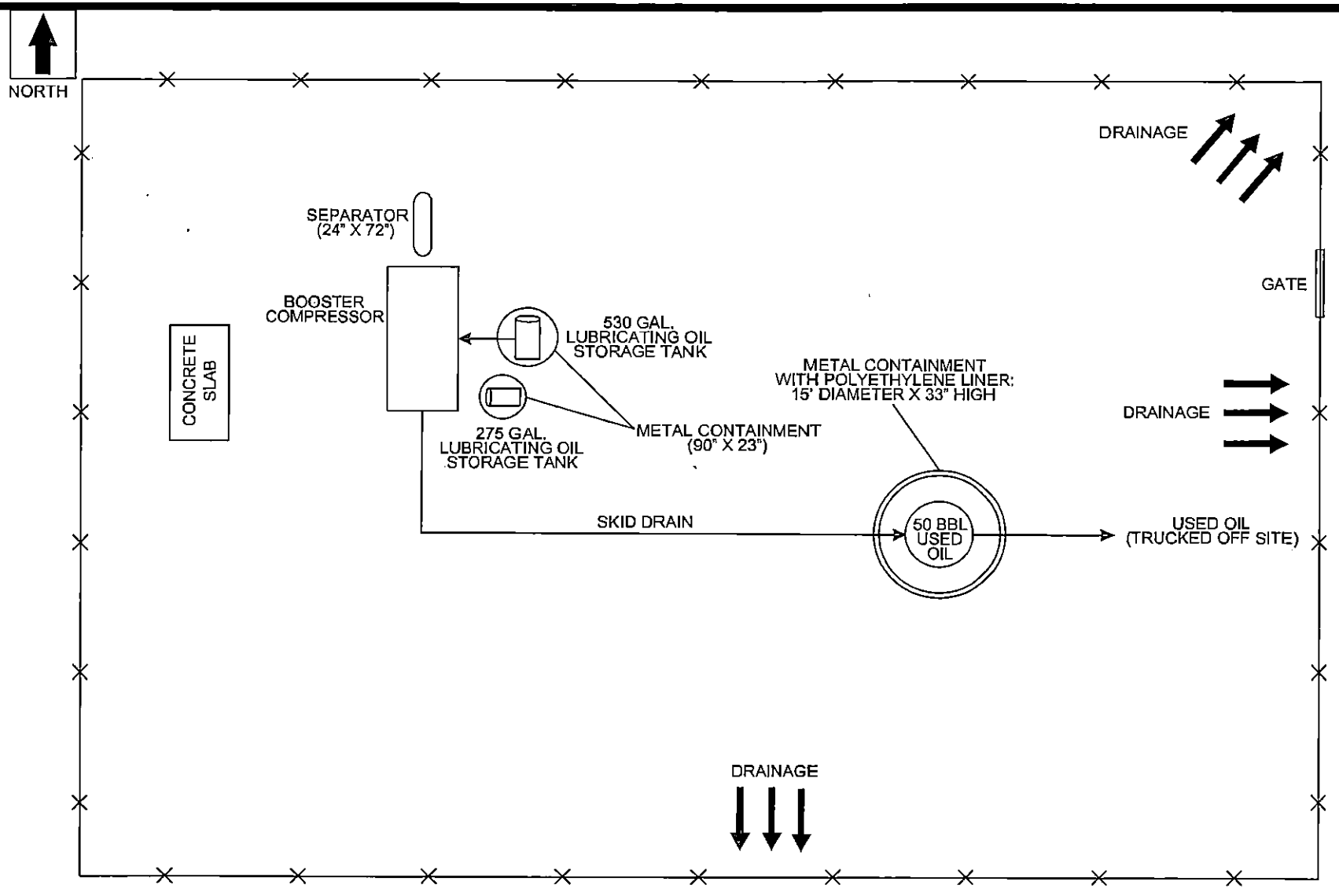

LATITUDE	33.424190 N
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WARRIOR MET COAL

TUSCALOOSA COUNTY — SECTION 6, TOWNSHIP 19 SOUTH, RANGE 8 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 3 of 16	
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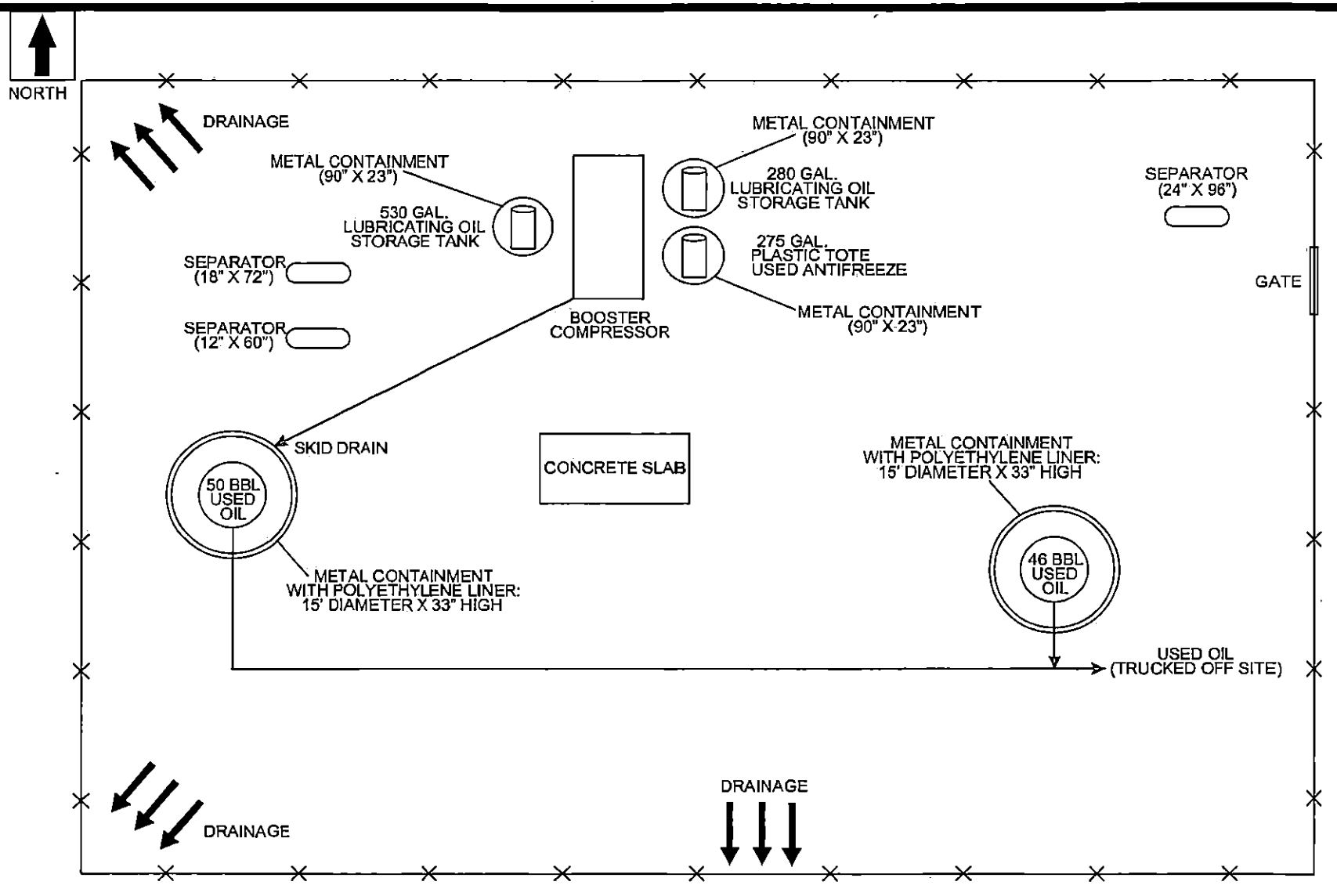

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DATE	DESCRIPTION	BY

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WARRIOR MET COAL

TUSCALOOSA COUNTY — SECTION 20, TOWNSHIP 18 SOUTH, RANGE 8 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 4 of 16	
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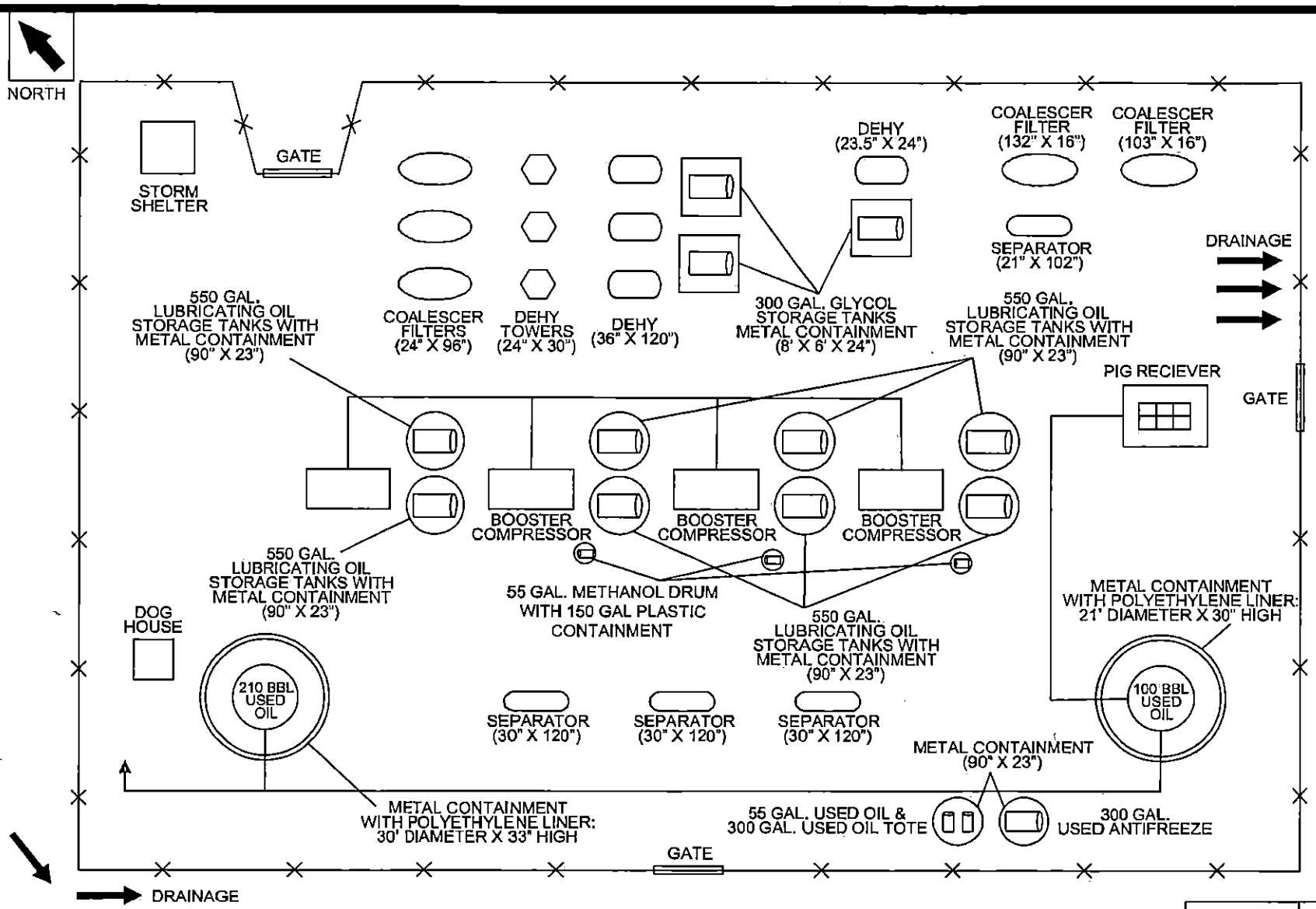

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WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 34, TOWNSHIP 18 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 5 of 16	
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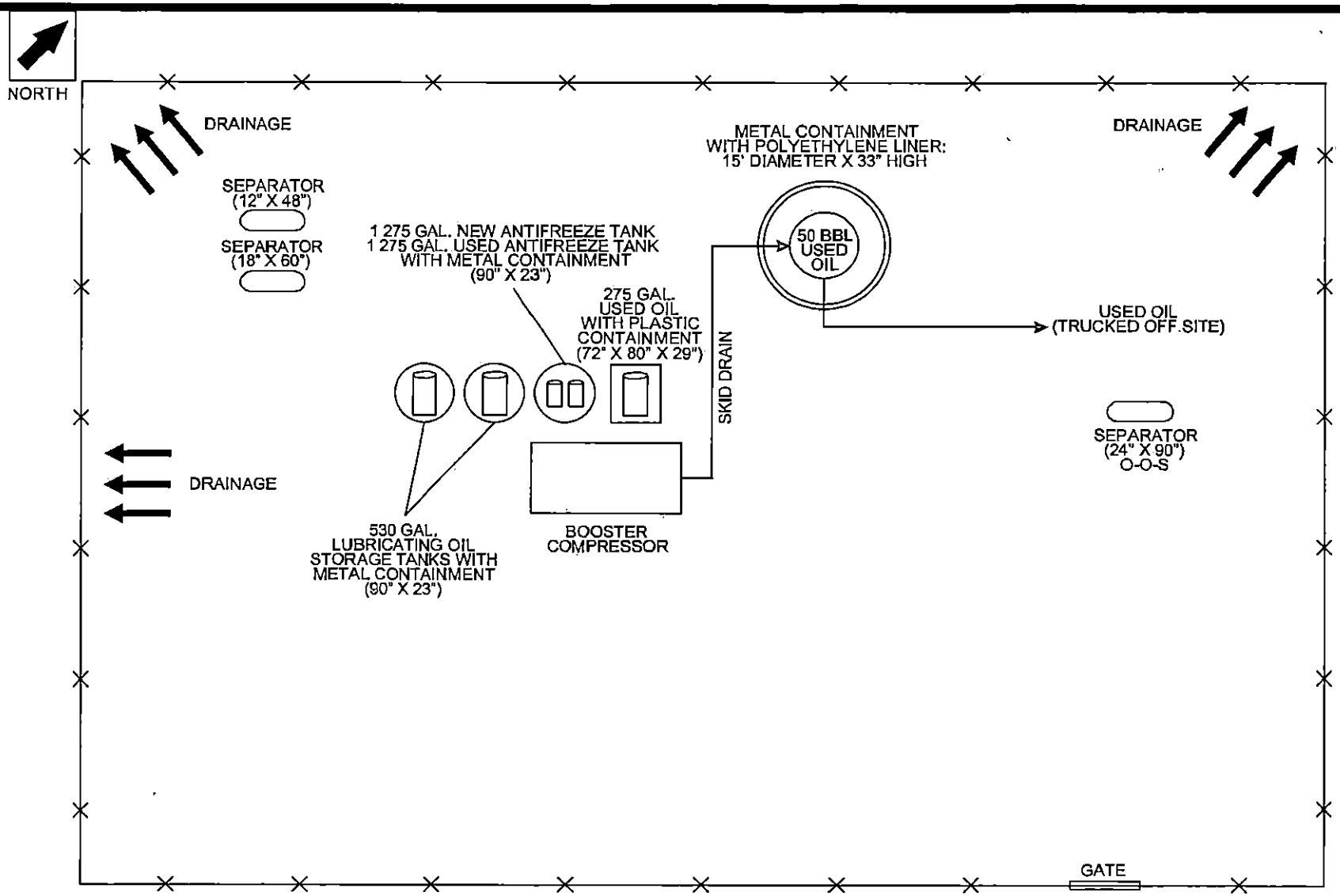

LATITUDE	33.296389 N
LONGITUDE	−87.418056 W

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WARRIOR MET COAL
TUSCALOOSA COUNTY SECTION 18, TOWNSHIP 20 SOUTH, RANGE 8 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 6 of 16	
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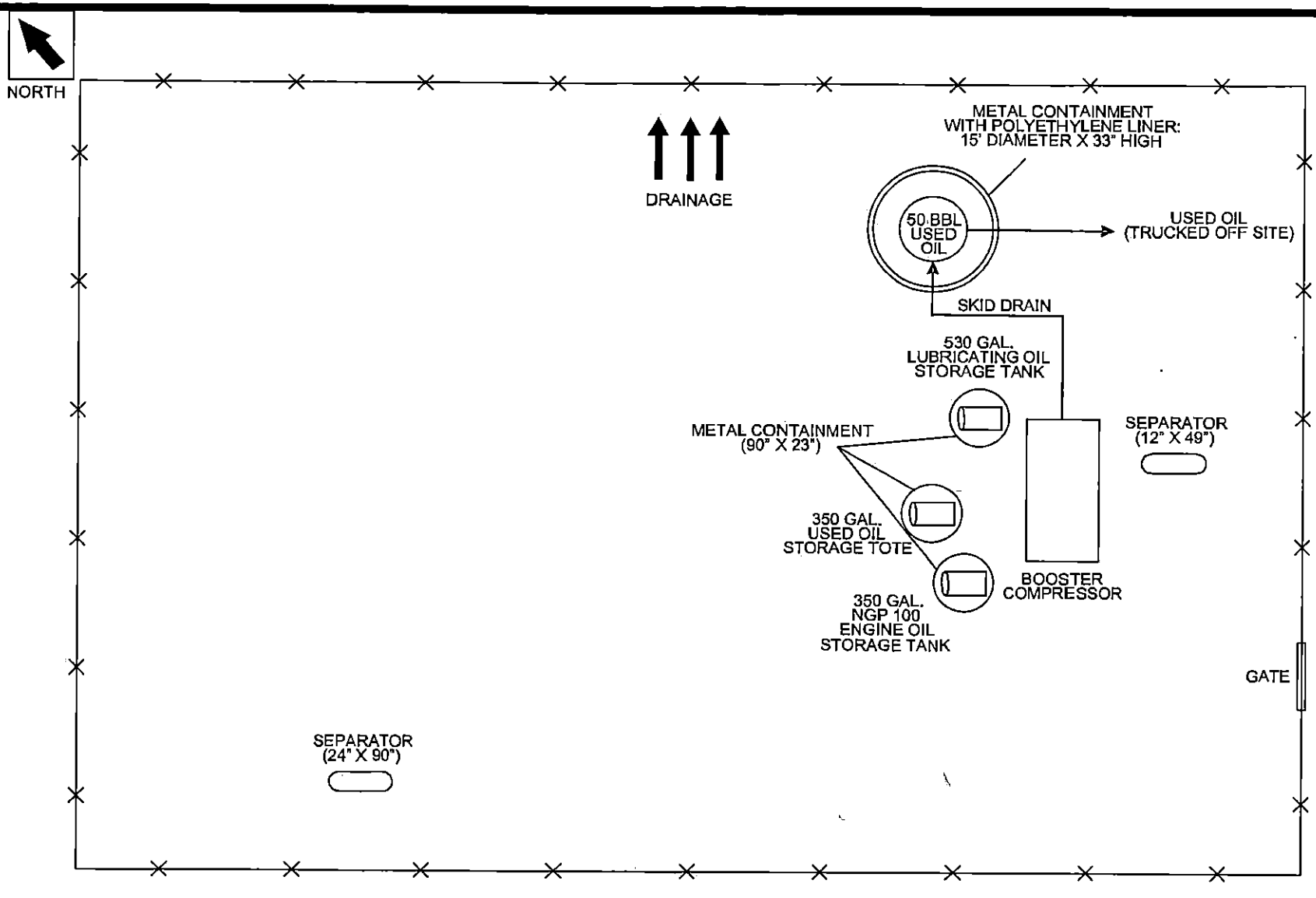

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DATE	DESCRIPTION	BY

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LAKE NICOL 1 COMPRESSOR STATION

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 11, TOWNSHIP 20 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 7 of 16	
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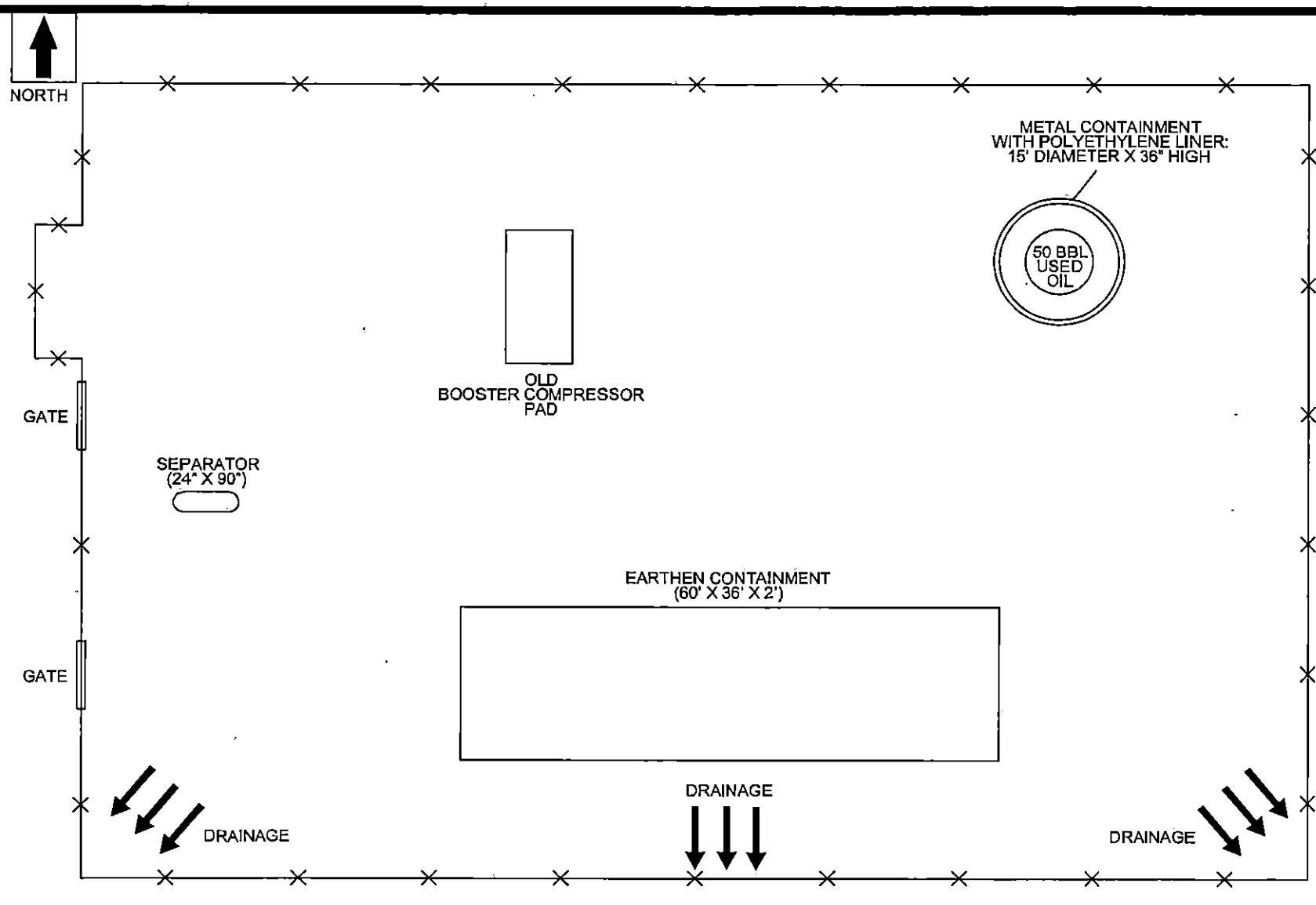

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LATITUDE	33.338358 N
LONGITUDE	-87.428901 W

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DATE	DESCRIPTION	BY

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WARRIOR MET COAL

TUSCALOOSA COUNTY — SECTION 1, TOWNSHIP 20 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 8 of 16	
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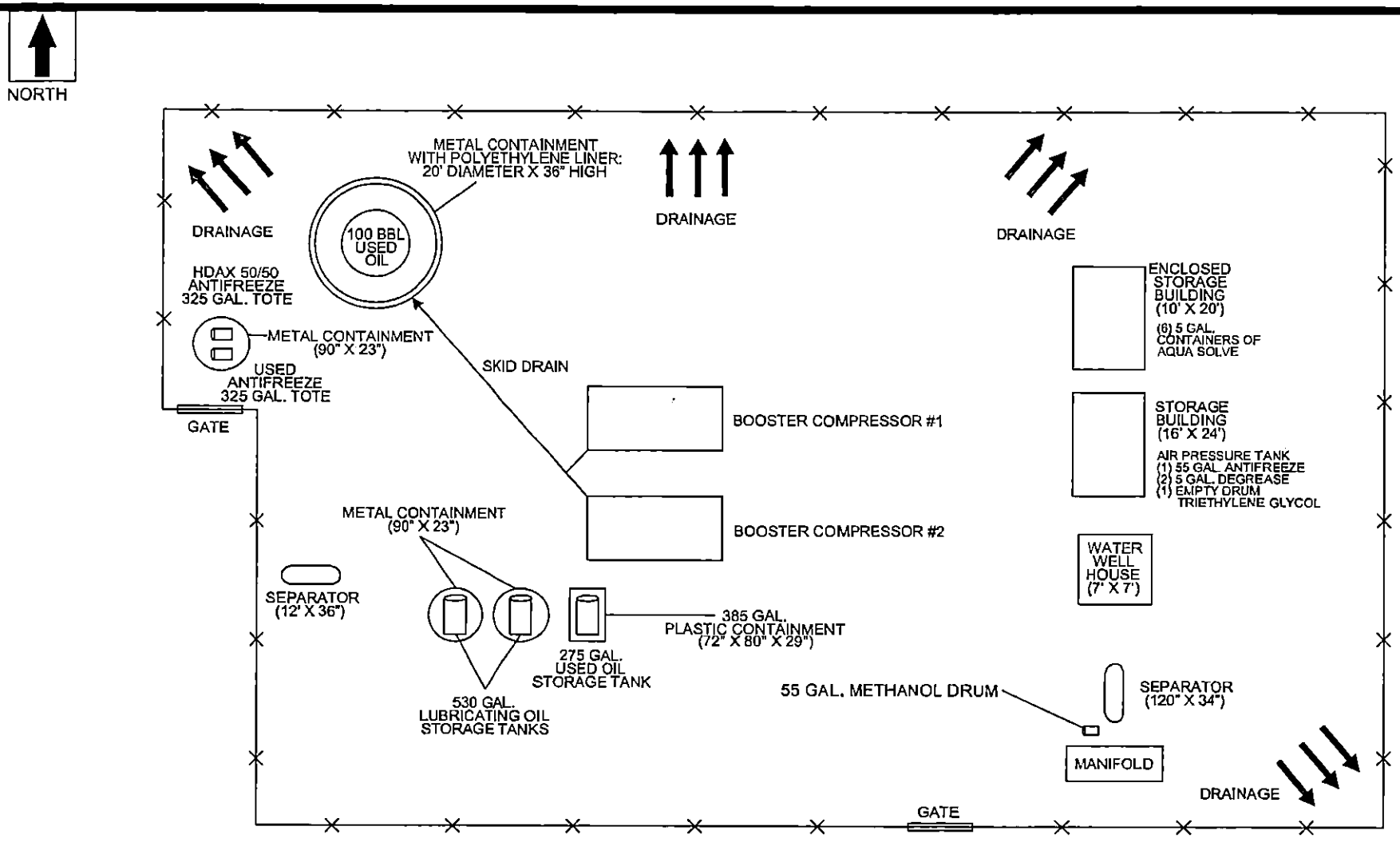

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SOUTH DEERLICK CREEK COMPRESSOR STATION

WARRIOR MET COAL

TUSCALOOSA COUNTY — SECTION 23, TOWNSHIP 20 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 9 of 16	
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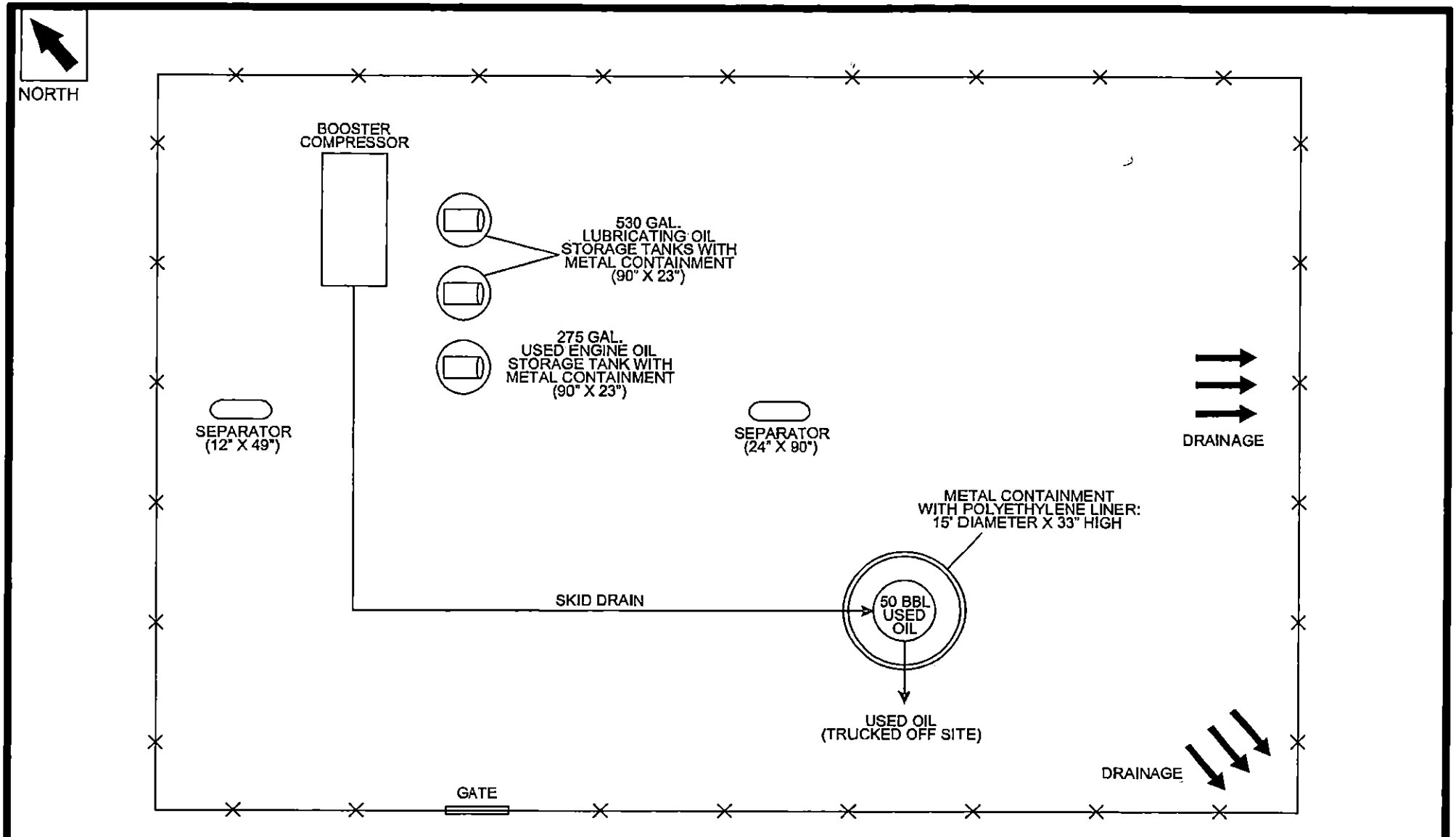

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WARRIOR MET COAL
TUSCALOOSA COUNTY SECTION 25, TOWNSHIP 19 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 10 of 16	
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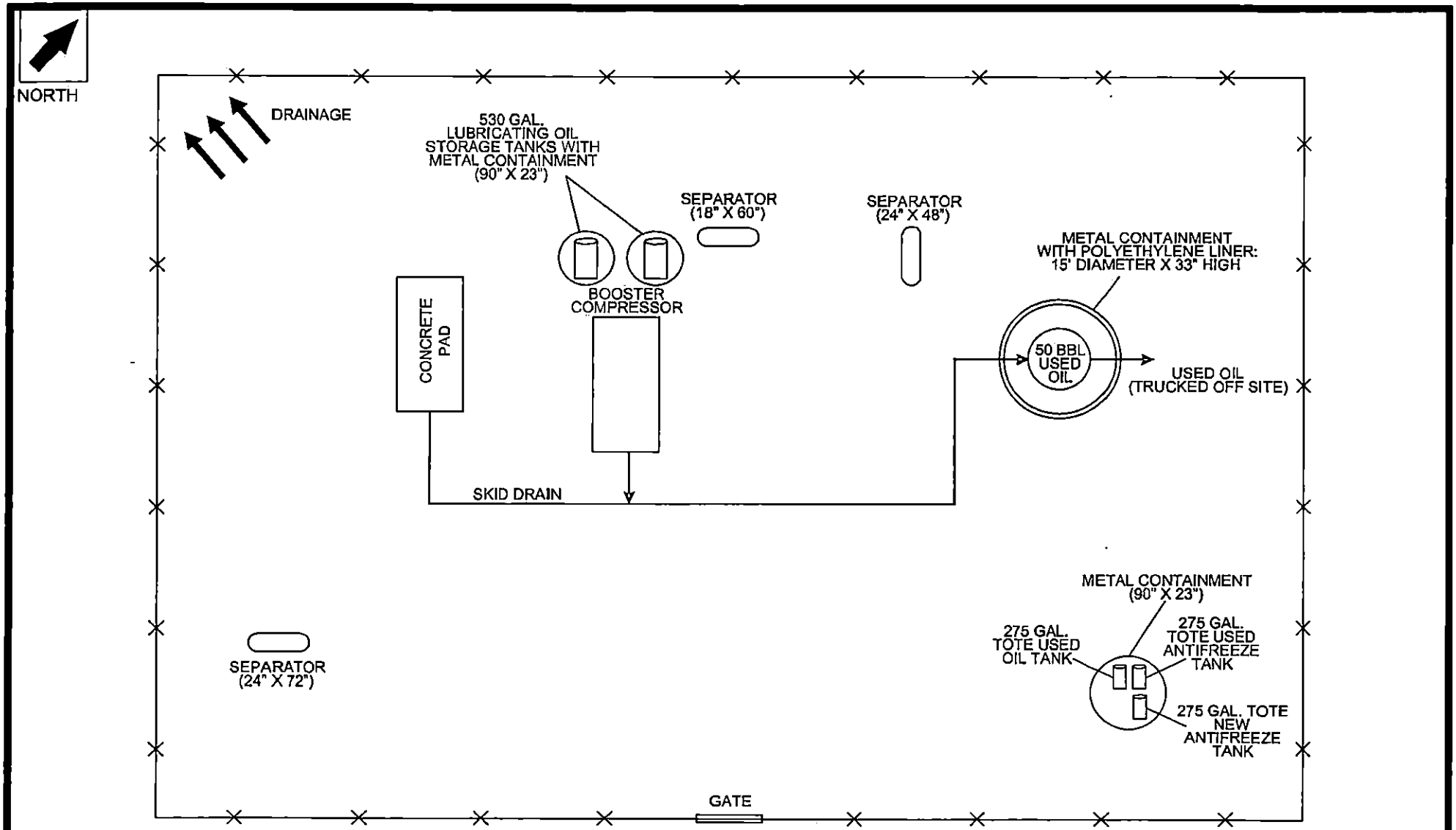

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WARRIOR MET COAL

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FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 11 of 16	
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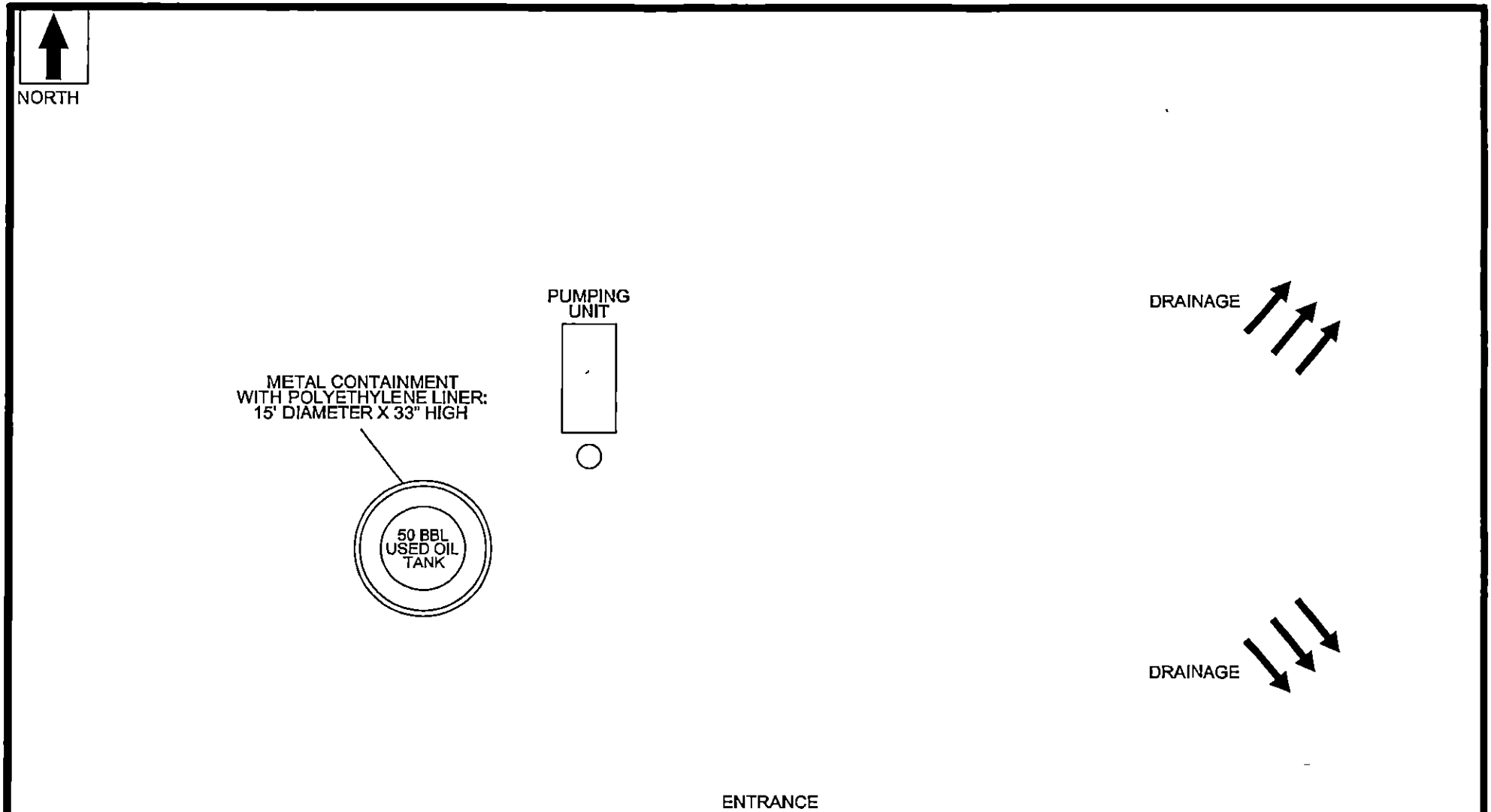

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REVISION		
DATE	DESCRIPTION	BY

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WEST WARRIOR RIDGE 2A COMPRESSOR STATION
WARRIOR MET COAL
TUSCALOOSA COUNTY SECTION 27, TOWNSHIP 19 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 12 of 16	
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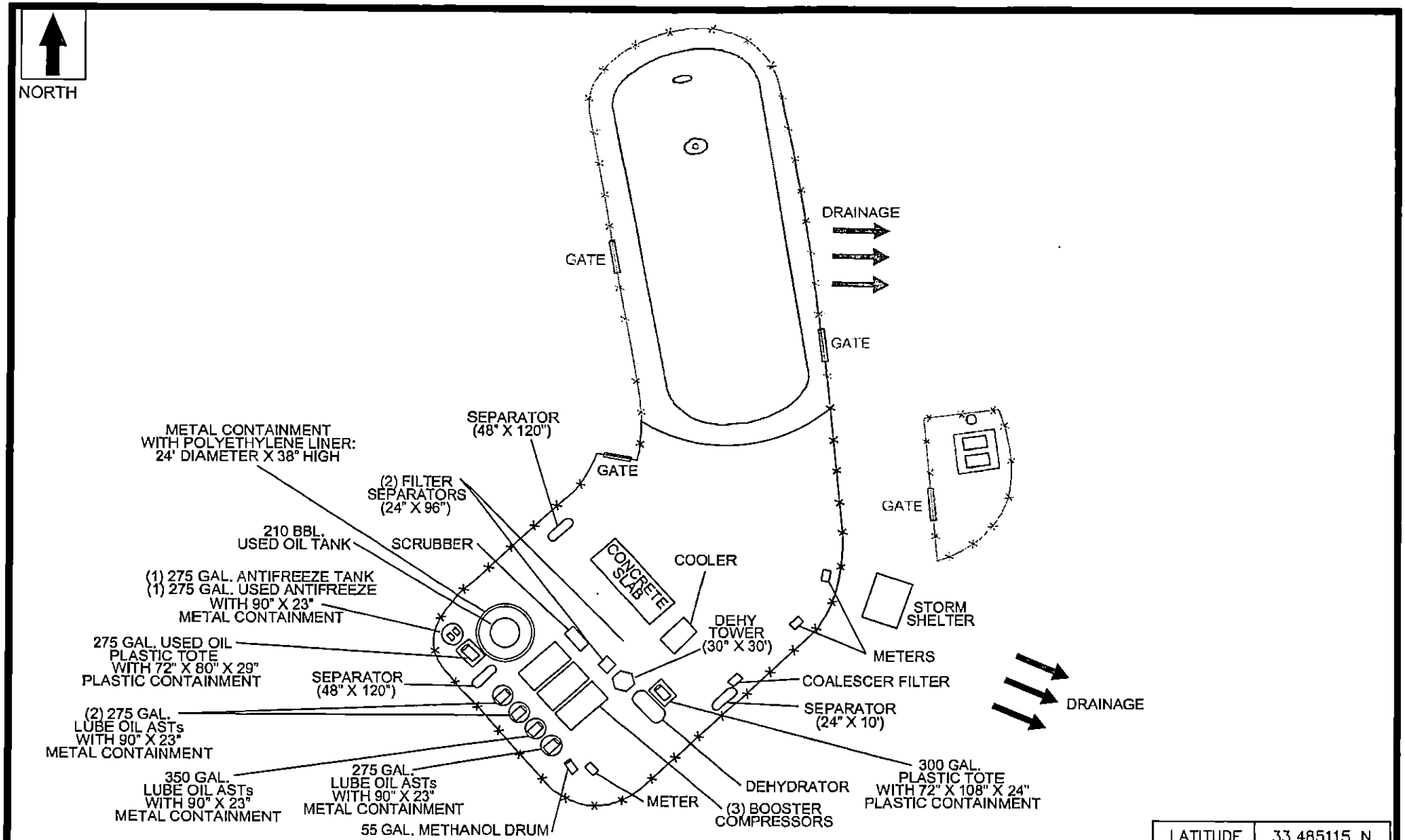

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REVISION		
DATE	DESCRIPTION	BY

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WEST WHITSON BOOSTER STATION

WARRIOR MET COAL

TUSCALOOSA COUNTY — SECTION 14, TOWNSHIP 18 SOUTH, RANGE 10 WEST

FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 13 of 16	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 150-22
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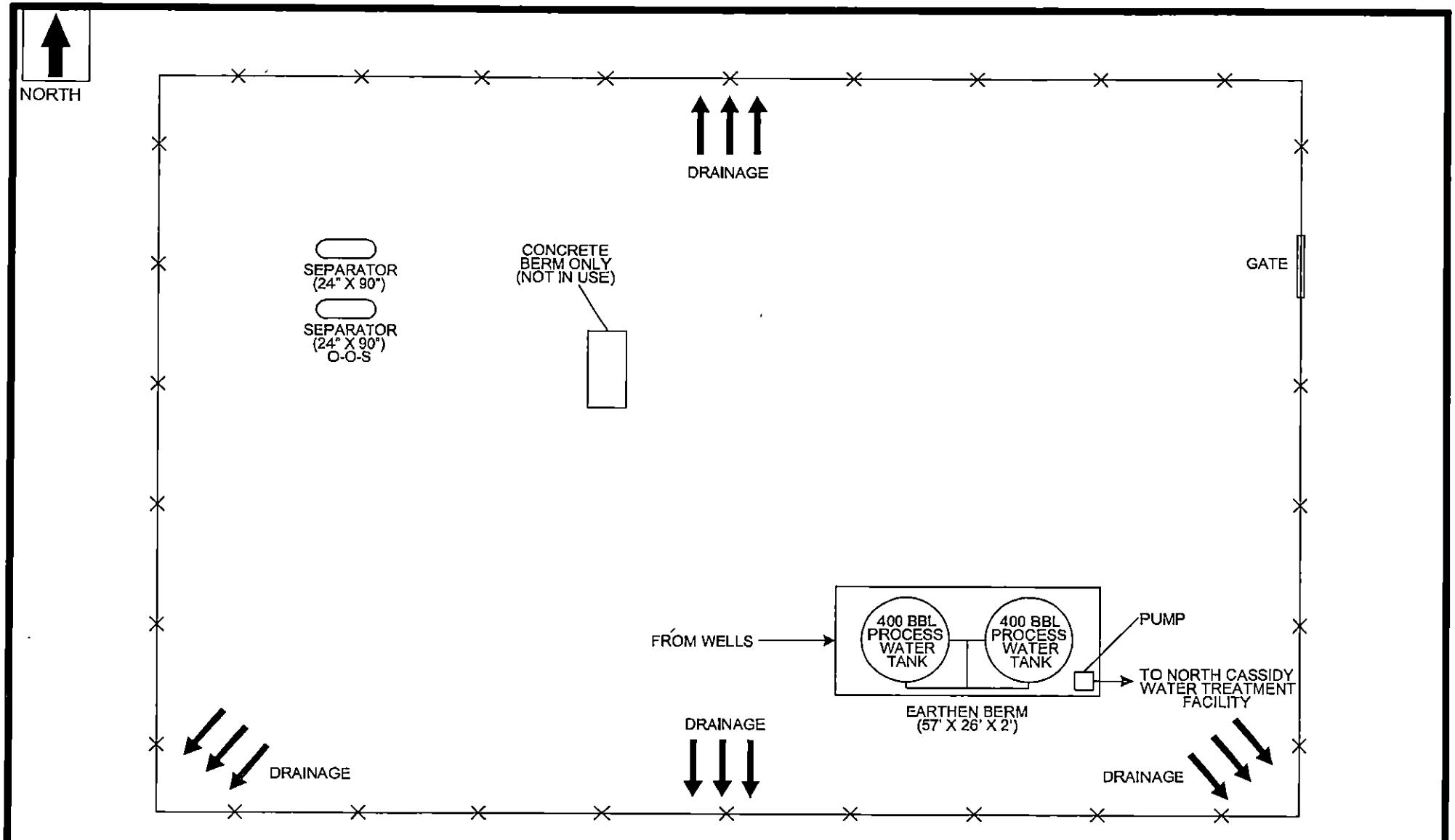

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LATITUDE	33.468164 N
LONGITUDE	−87.416421 W

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REVISION		
DATE	DESCRIPTION	BY

BLACK WARRIOR RIVER BASIN

WEST YELLOW CREEK I COMPRESSOR STATION

WARRIOR MET COAL

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FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 14 of 16	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 150-22
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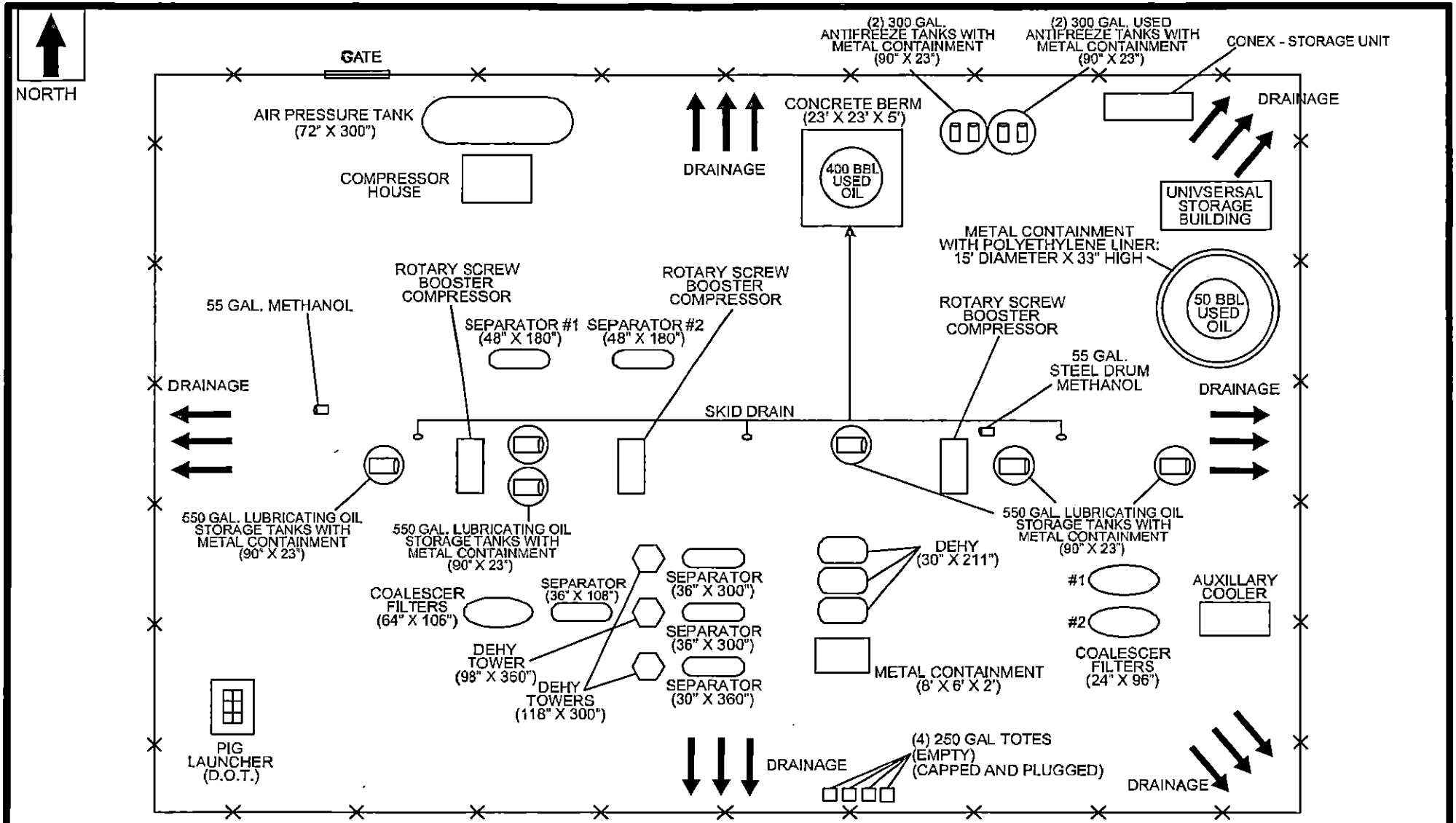

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LONGITUDE	-87.457899 W

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DATE	DESCRIPTION	BY

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WHITSON COMPRESSOR SALES STATION

WARRIOR MET COAL

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FILE NAME: WMC-BWRB-SPCC2022-COMP SCHEM		SHEET No. 15 of 16	
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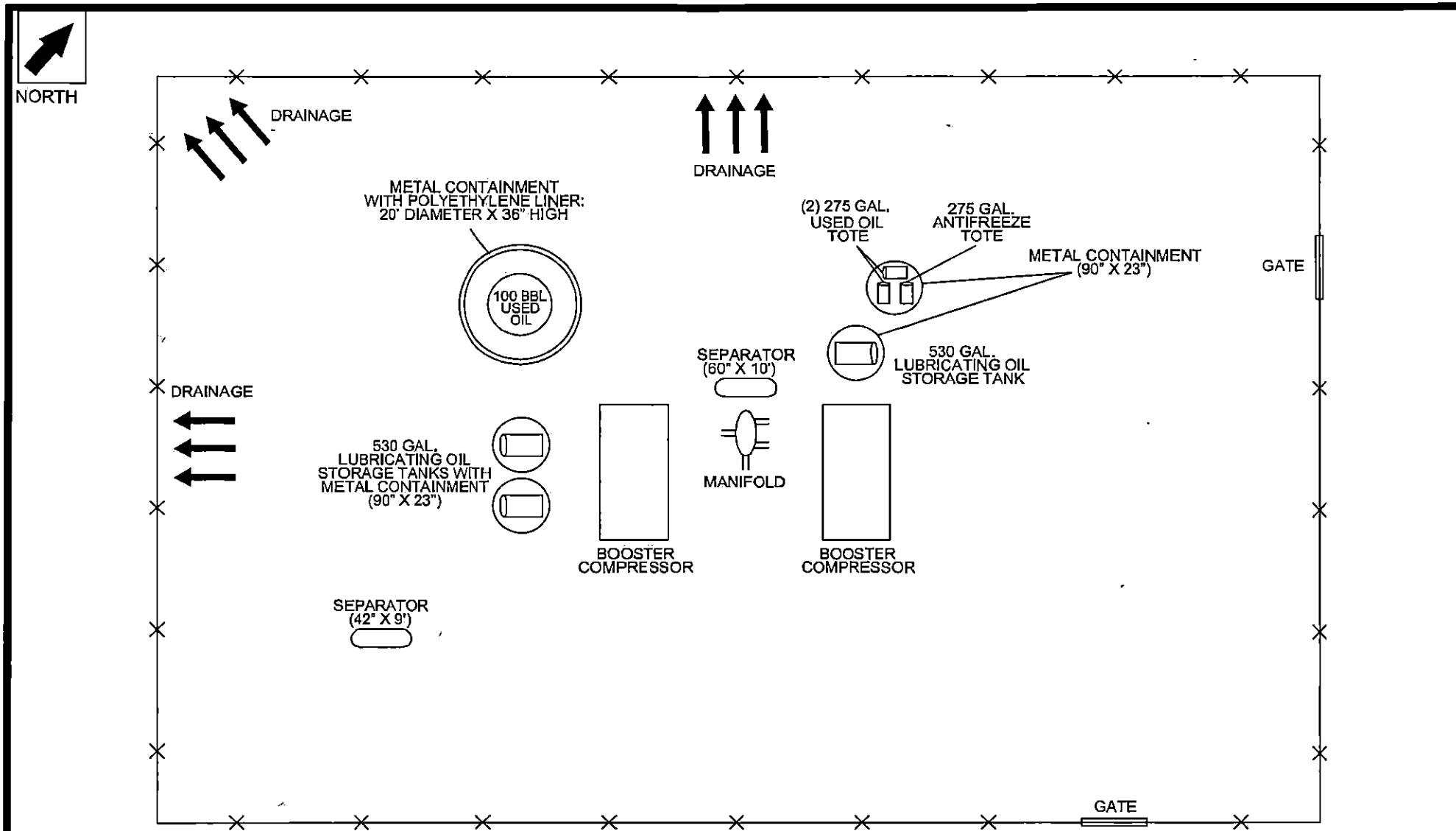

LATITUDE	33.477618 N
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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

BLACK WARRIOR RIVER BASIN

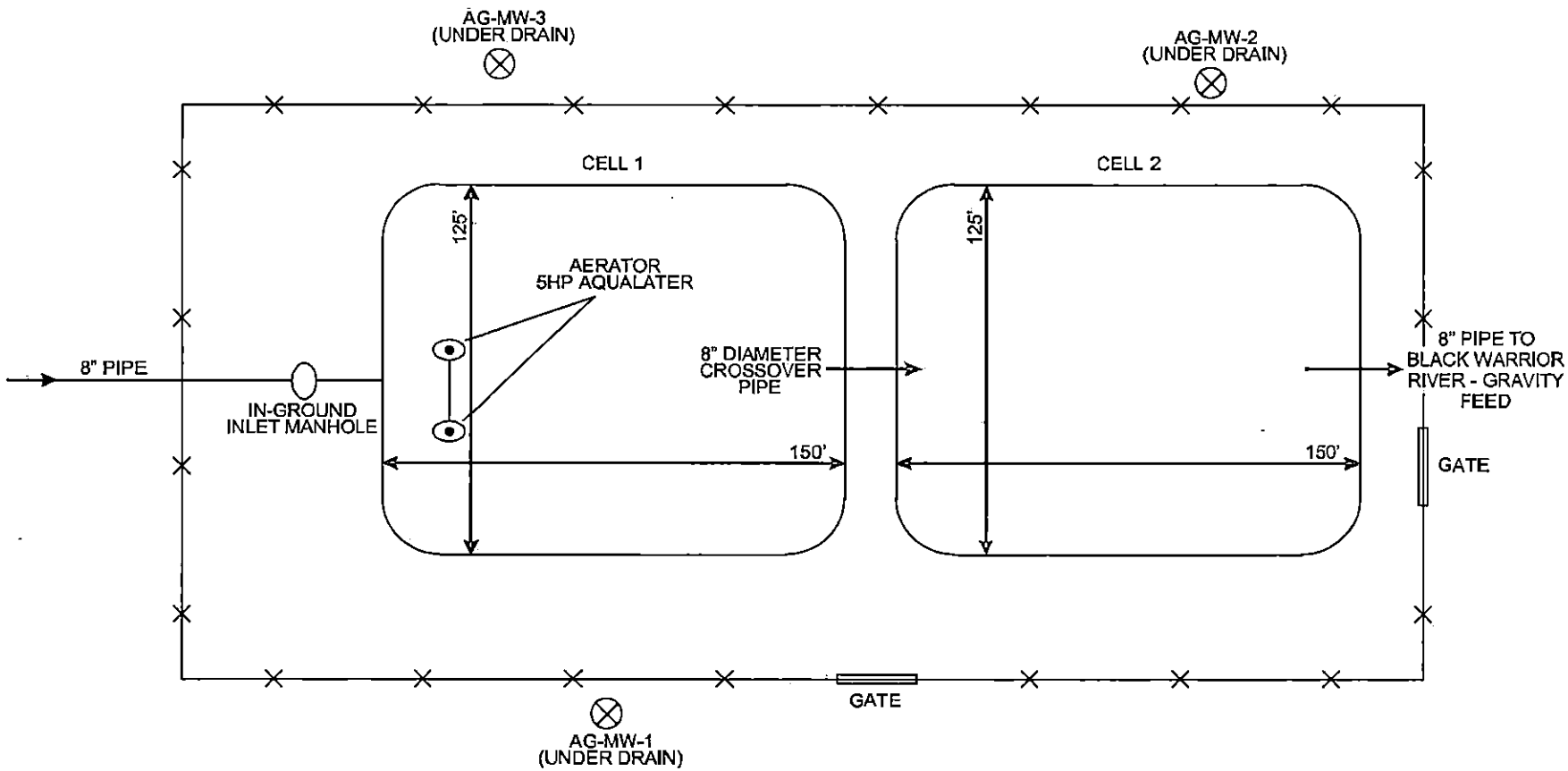
YELLOW CREEK 1 COMPRESSOR STATION

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 16, TOWNSHIP 18 SOUTH, RANGE 8 WEST

FILE NAME: WMC-BWR8-SPCC2022-COMP SCHEM		SHEET No. 16 of 16	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 150-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
PAGE: N/A	DRAWN BY: D D H		

NOTE: NO CHEMICAL TANKS CURRENTLY ON–SITE.



LATITUDE	33.388665 N
LONGITUDE	–87.419461 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

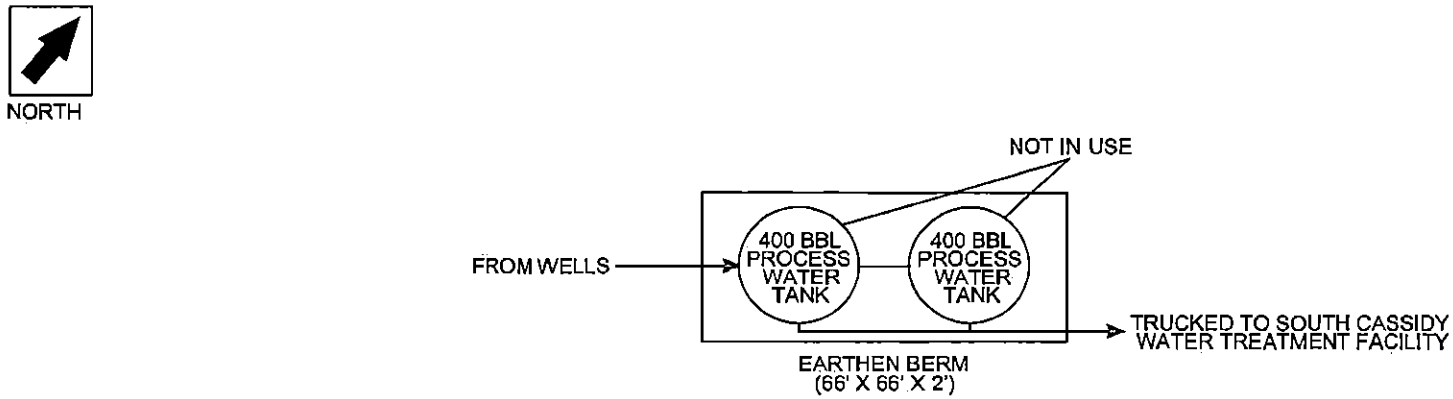
BLACK WARRIOR RIVER BASIN

ALLGOOD WATER TREATMENT FACILITY

WARRIOR MET COAL

TUSCALOOSA COUNTY — SECTION 18, TOWNSHIP 19 SOUTH, RANGE 8 WEST

FILE NAME: WMC–BWRB–SPCC2022–WATER SCHEM		SHEET No. 1 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22–3086	CHECKED BY: QHS	DWG. No. 151–22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
PAGE: N/A	DRAWN BY: D D H		



SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

LATITUDE	33.447327 N
LONGITUDE	-87.427066 W

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

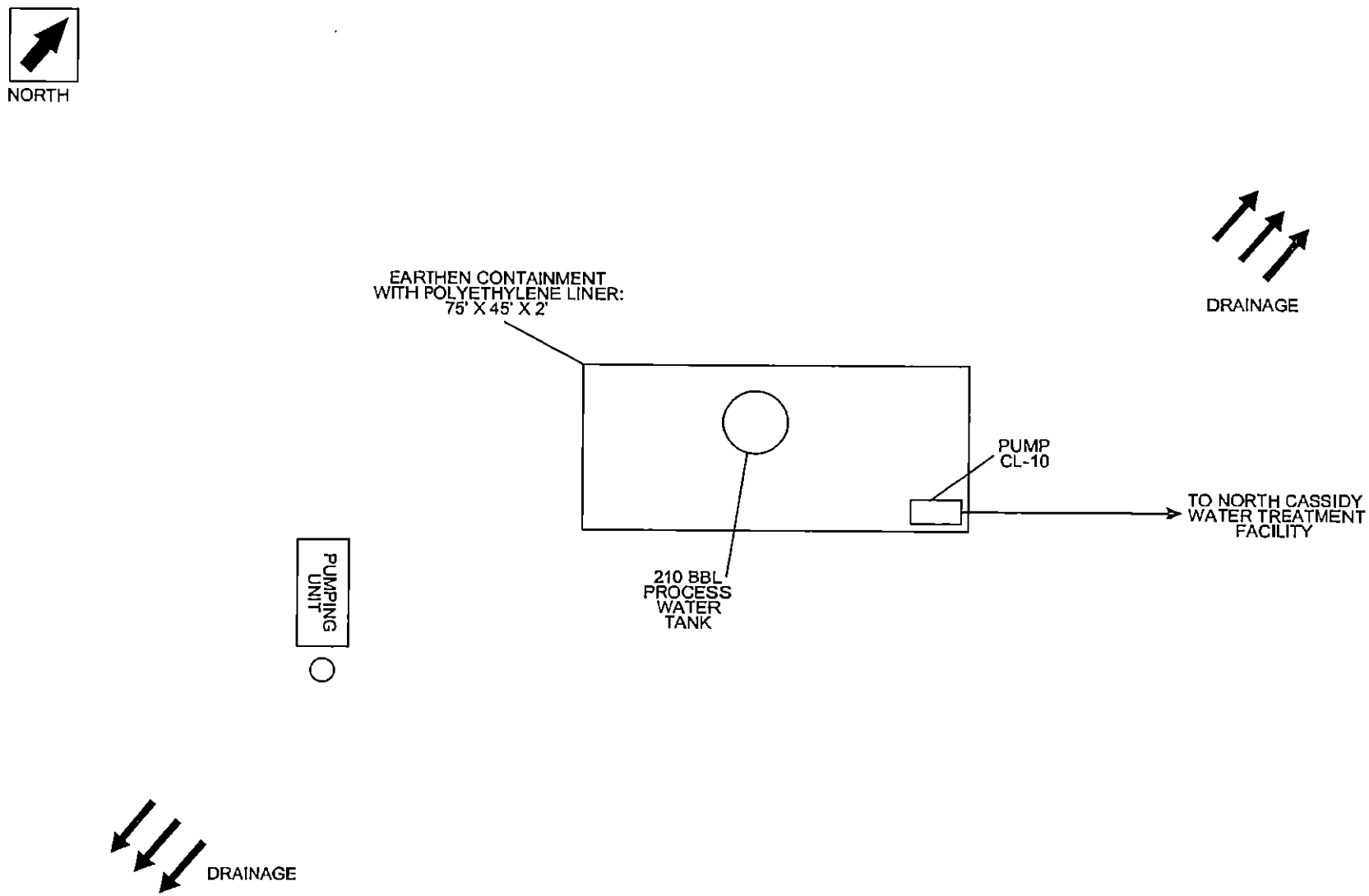
BLACK WARRIOR RIVER BASIN

BLUE ROCK PIT WATER TANKS

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 25, TOWNSHIP 18 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 2 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
PAGE: N/A	DRAWN BY: D D H		



SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

LATITUDE	33.506395 N
LONGITUDE	-87.438061 W

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

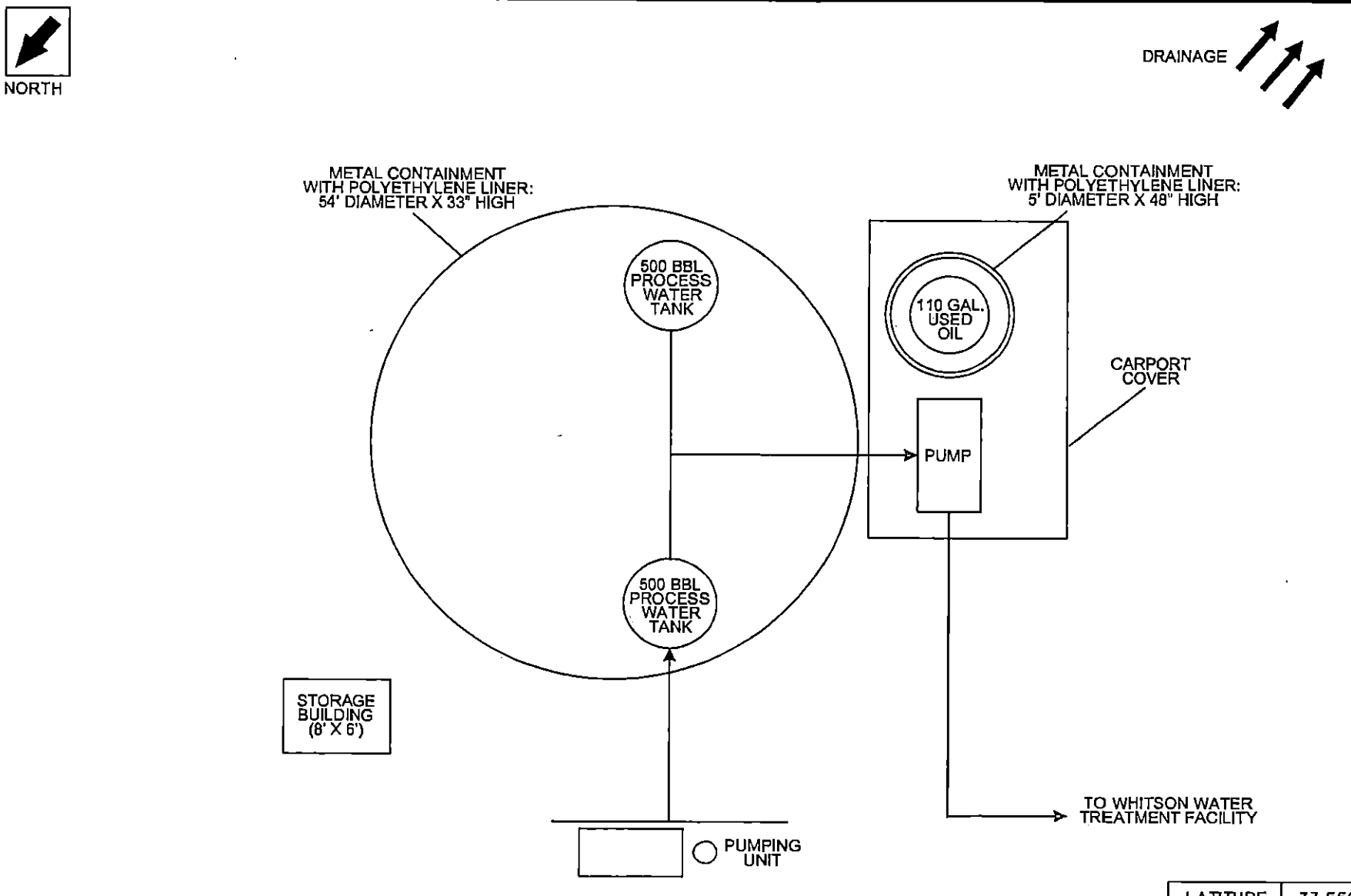
BLACK WARRIOR RIVER BASIN

CHEVRON 1-12-15 WATER TANKS (RED HILL)

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 1, TOWNSHIP 18 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 3 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
PAGE: N/A	DRAWN BY: D Q H		



LATITUDE	33.559407 N
LONGITUDE	-87.427752 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

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REVISION		
DATE	DESCRIPTION	BY

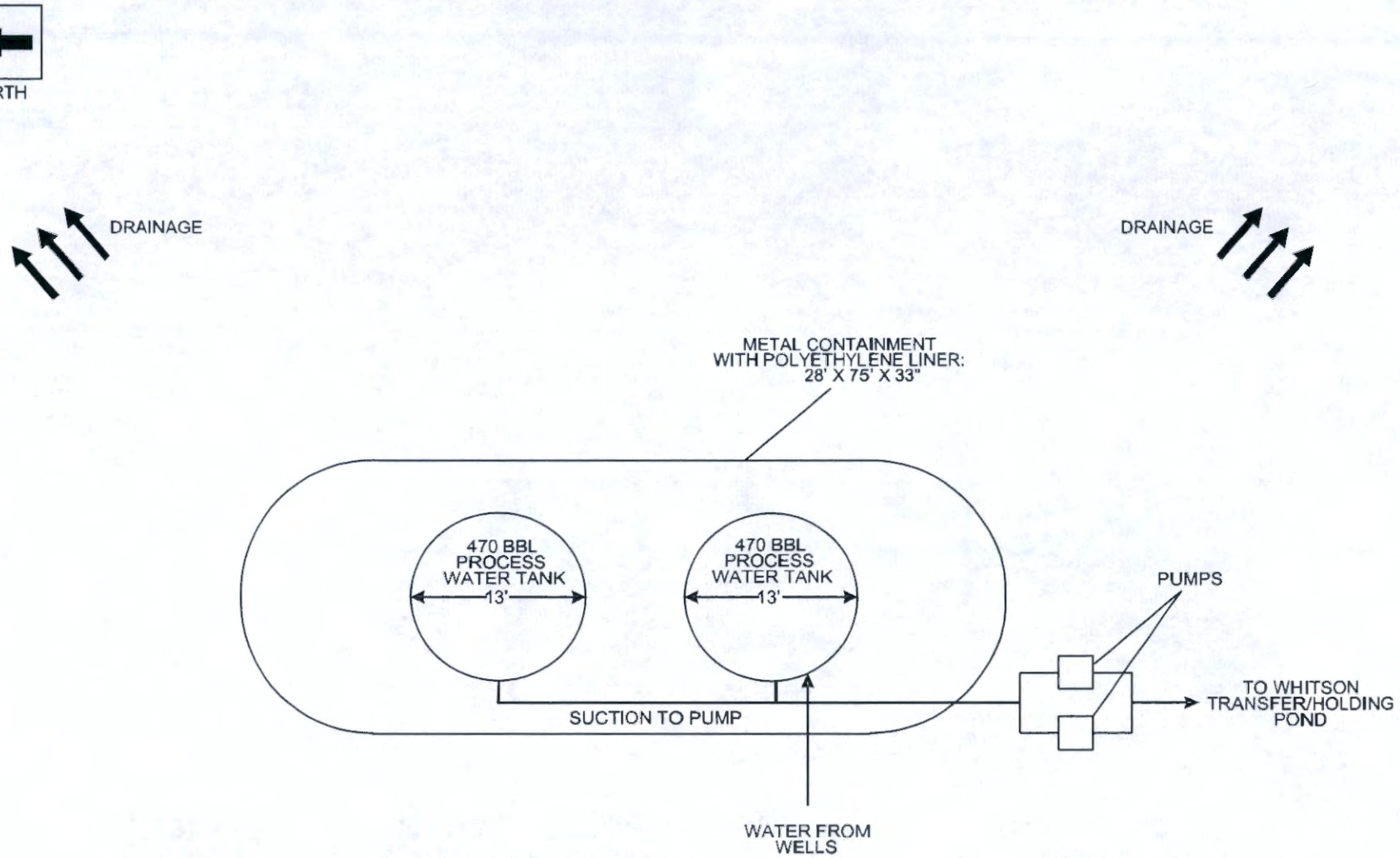
BLACK WARRIOR RIVER BASIN

CHEVRON 13-16-109 WATER TANKS

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 13, TOWNSHIP 17 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 4 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3066	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
PAGE: N/A	DRAWN BY: D D H		



LATITUDE	33.532108 N
LONGITUDE	-87.499196 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

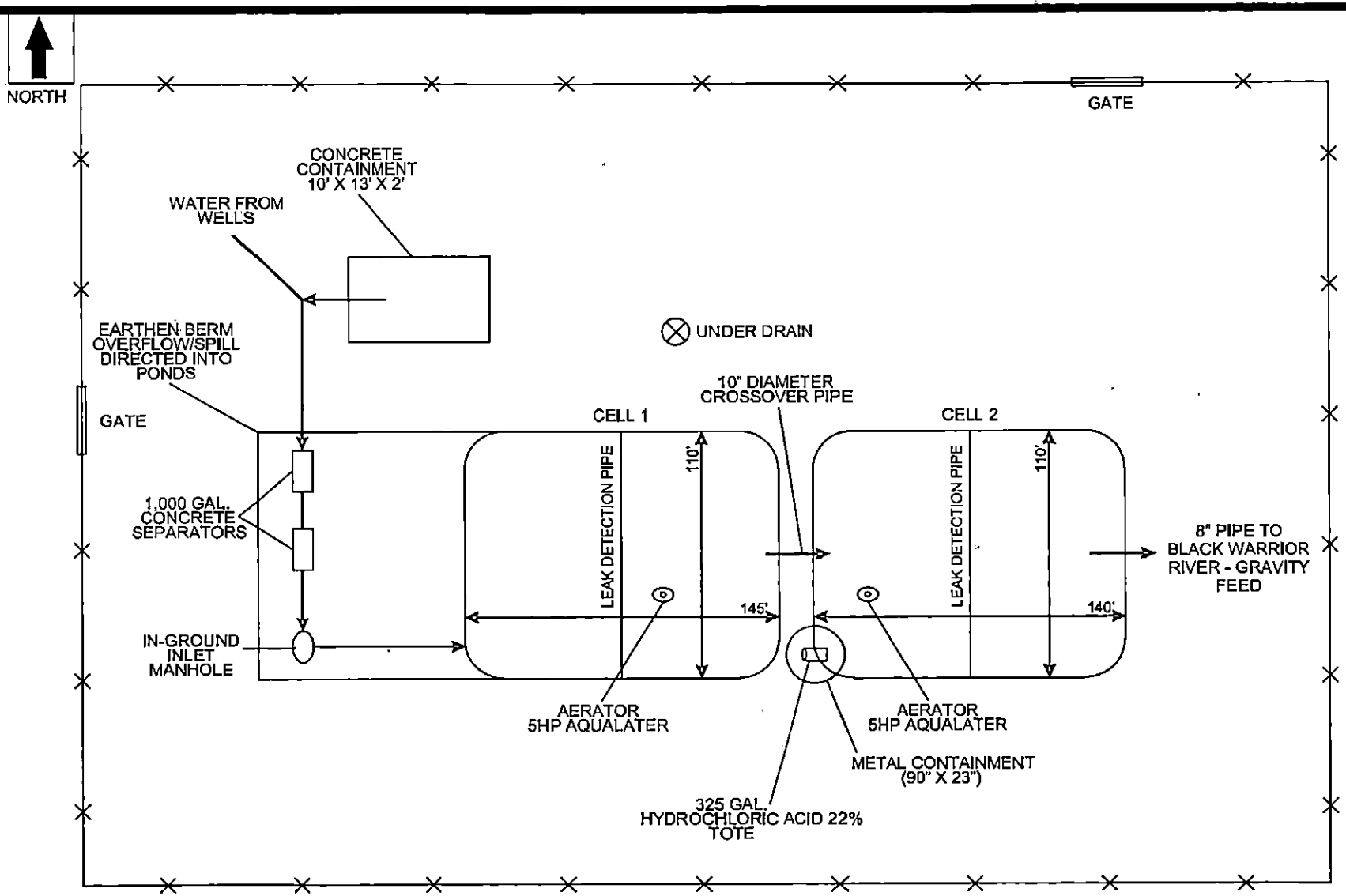
BLACK WARRIOR RIVER BASIN

CHEVRON 29-15-358 WATER TANKS

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 29, TOWNSHIP 17 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 5 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
PAGE: N/A	DRAWN BY: D D H		



LATITUDE	33.304376 N
LONGITUDE	-87.398218 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

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REVISION		
DATE	DESCRIPTION	BY

BLACK WARRIOR RIVER BASIN

EAST DEERLICK WATER TREATMENT FACILITY

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 17, TOWNSHIP 20 SOUTH, RANGE 8 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 6 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
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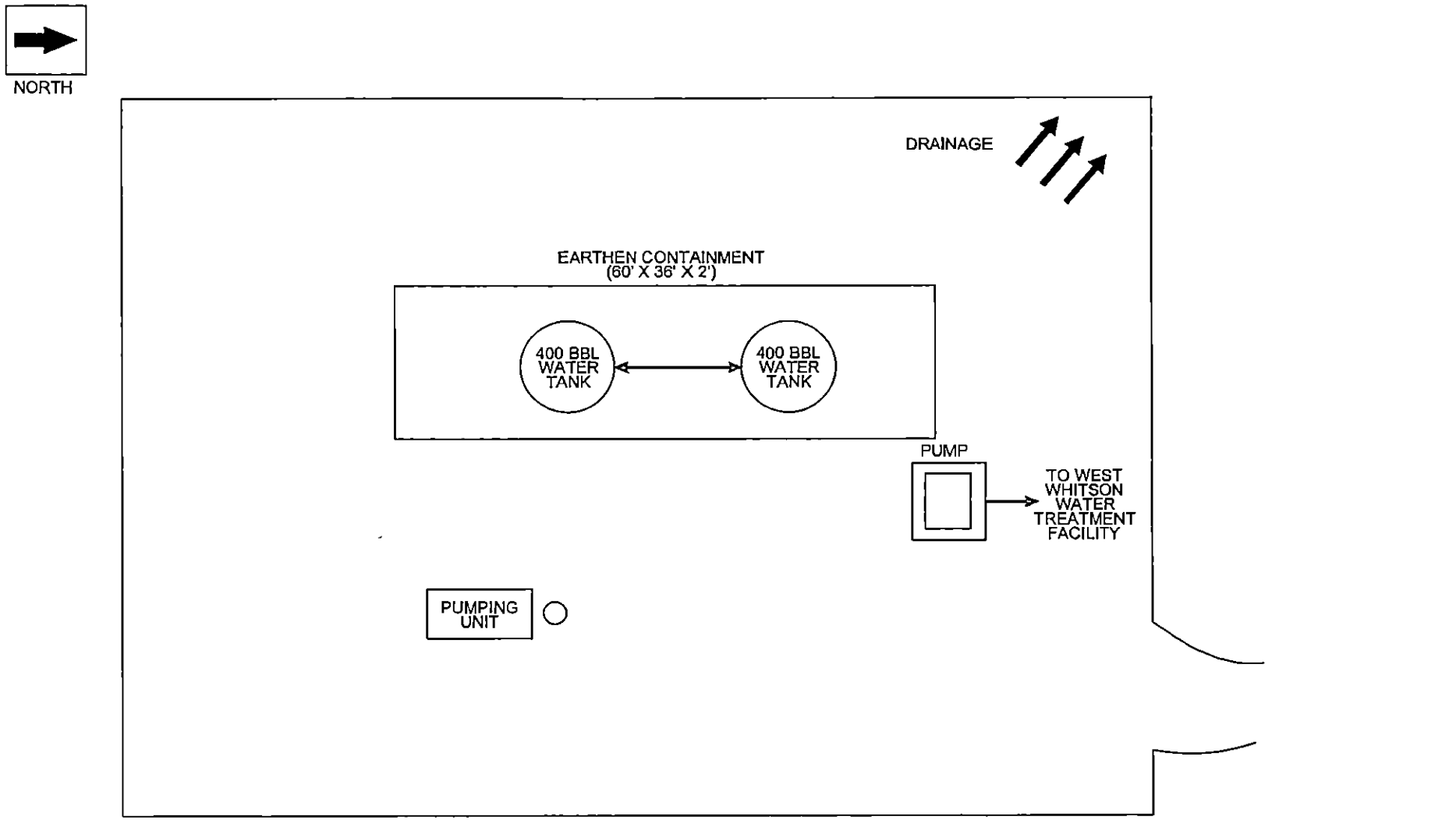

LATITUDE	33.460986 N
LONGITUDE	-87.576010 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

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REVISION		
DATE	DESCRIPTION	BY

BLACK WARRIOR RIVER BASIN

JOLEN 27-4-949 WATER TANKS

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 27, TOWNSHIP 18 SOUTH, RANGE 10 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 7 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
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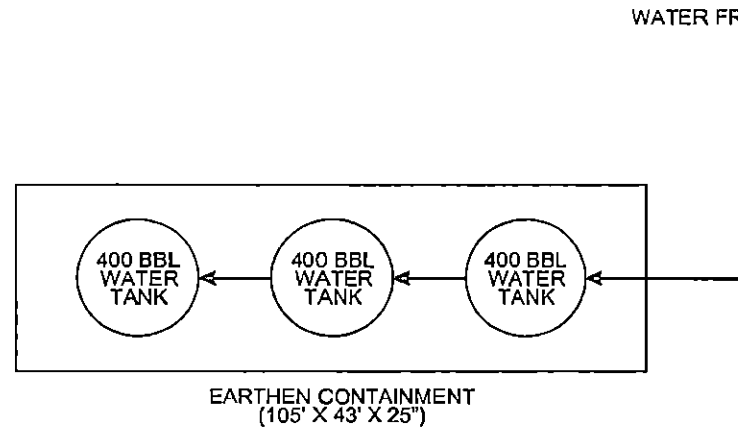

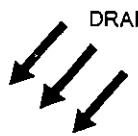

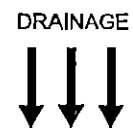

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

LATITUDE	33.459776 N
LONGITUDE	-87.408862 W

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

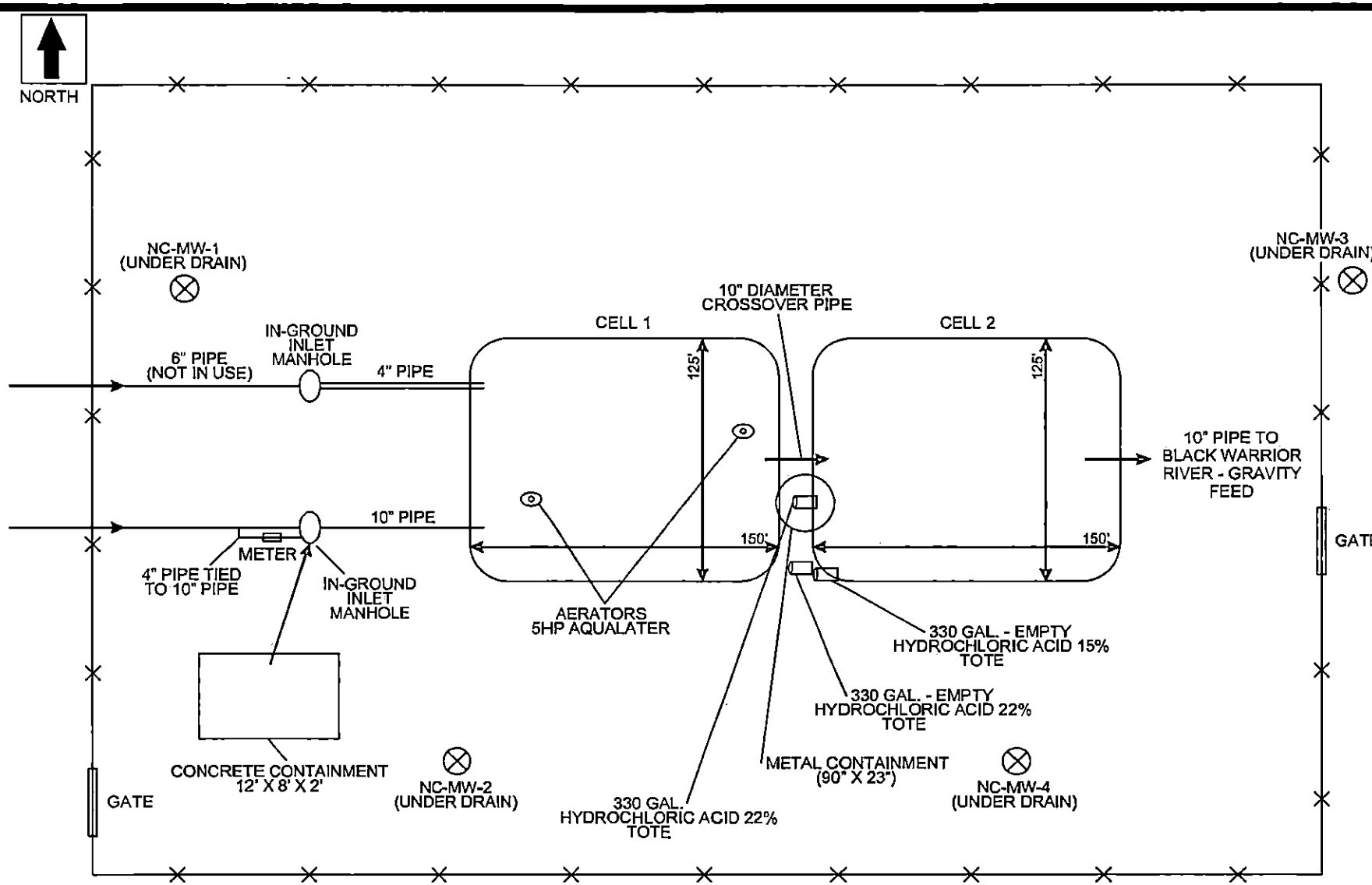
BLACK WARRIOR RIVER BASIN

MILLION DOLLAR HILL WATER TANKS

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 19, TOWNSHIP 18 SOUTH, RANGE 8 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 8 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
PAGE: N/A	DRAWN BY: D D H		



LATITUDE	33.467429 N
LONGITUDE	-87.359564 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

BLACK WARRIOR RIVER BASIN

NORTH CASSIDY WATER TREATMENT FACILITY

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 22, TOWNSHIP 18 SOUTH, RANGE 8 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 9 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
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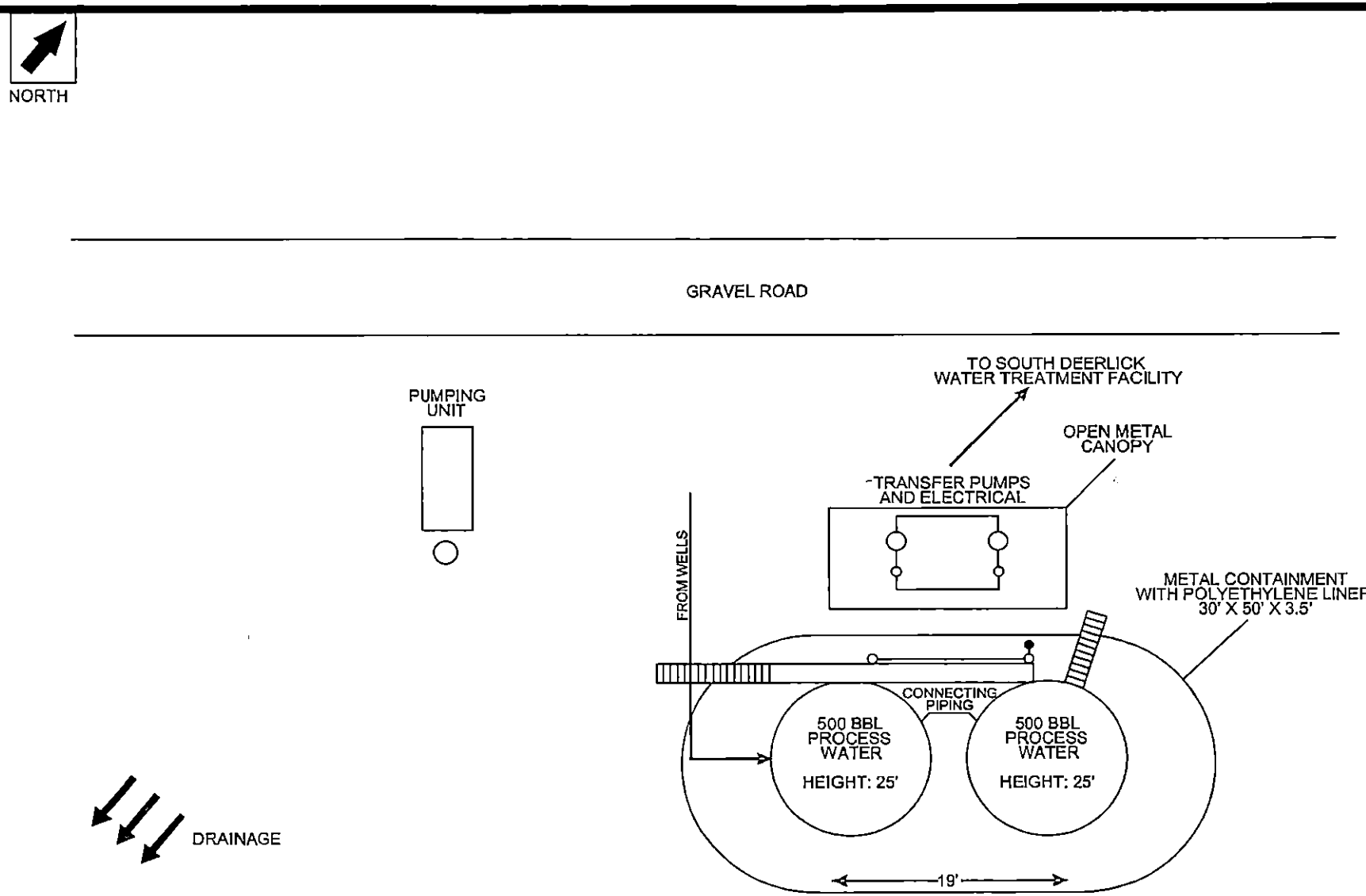

LATITUDE	33.262851 N
LONGITUDE	−87.451812 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

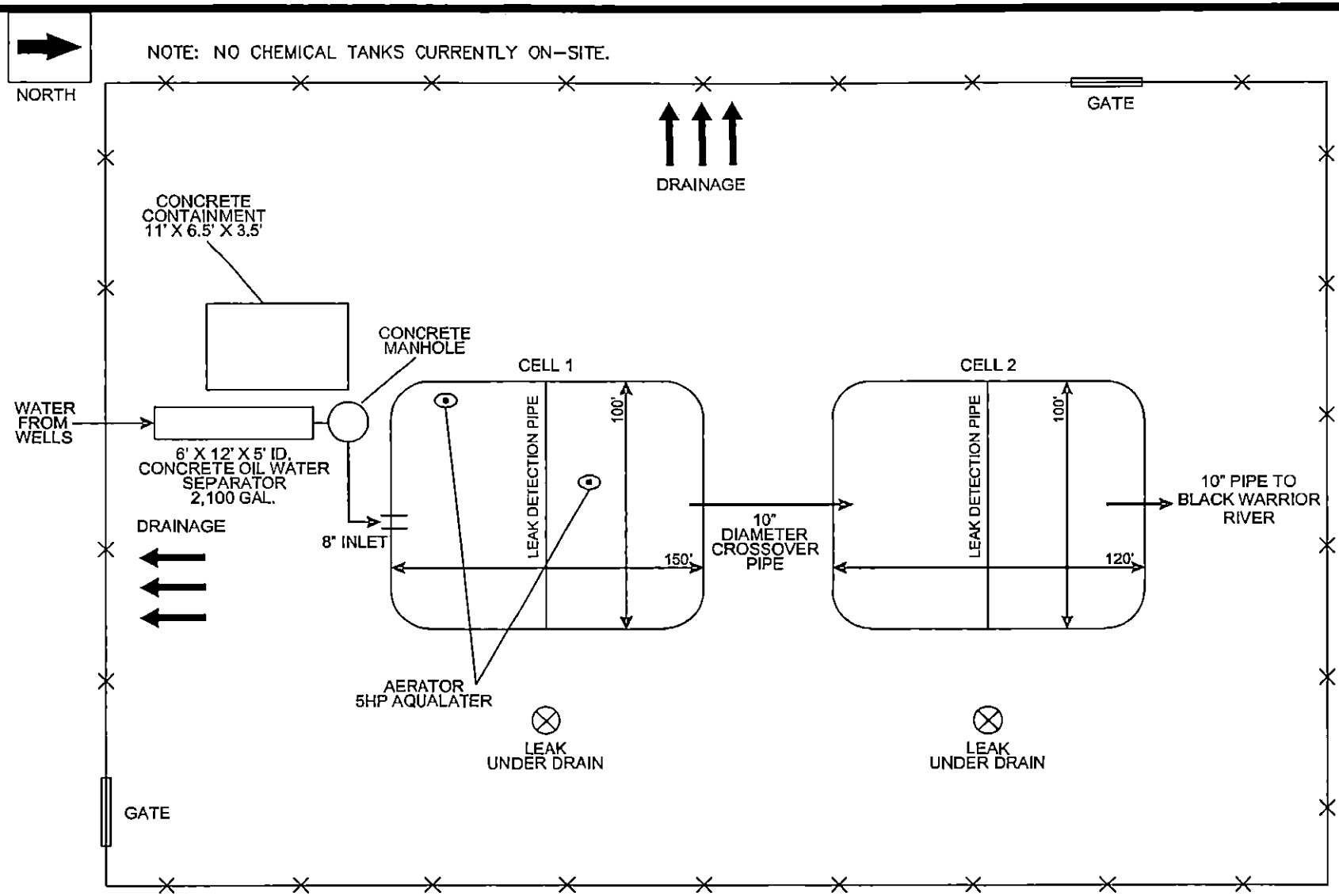
BLACK WARRIOR RIVER BASIN

RAMSAY-McCORMACK 35-6 #4

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 35, TOWNSHIP 20 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 10 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
PAGE: N/A	DRAWN BY: D D H		



LATITUDE	33.433185 N
LONGITUDE	-87.390930 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

BLACK WARRIOR RIVER BASIN

SOUTH CASSIDY WATER TREATMENT FACILITY

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 32, TOWNSHIP 18 SOUTH, RANGE 8 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 11 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
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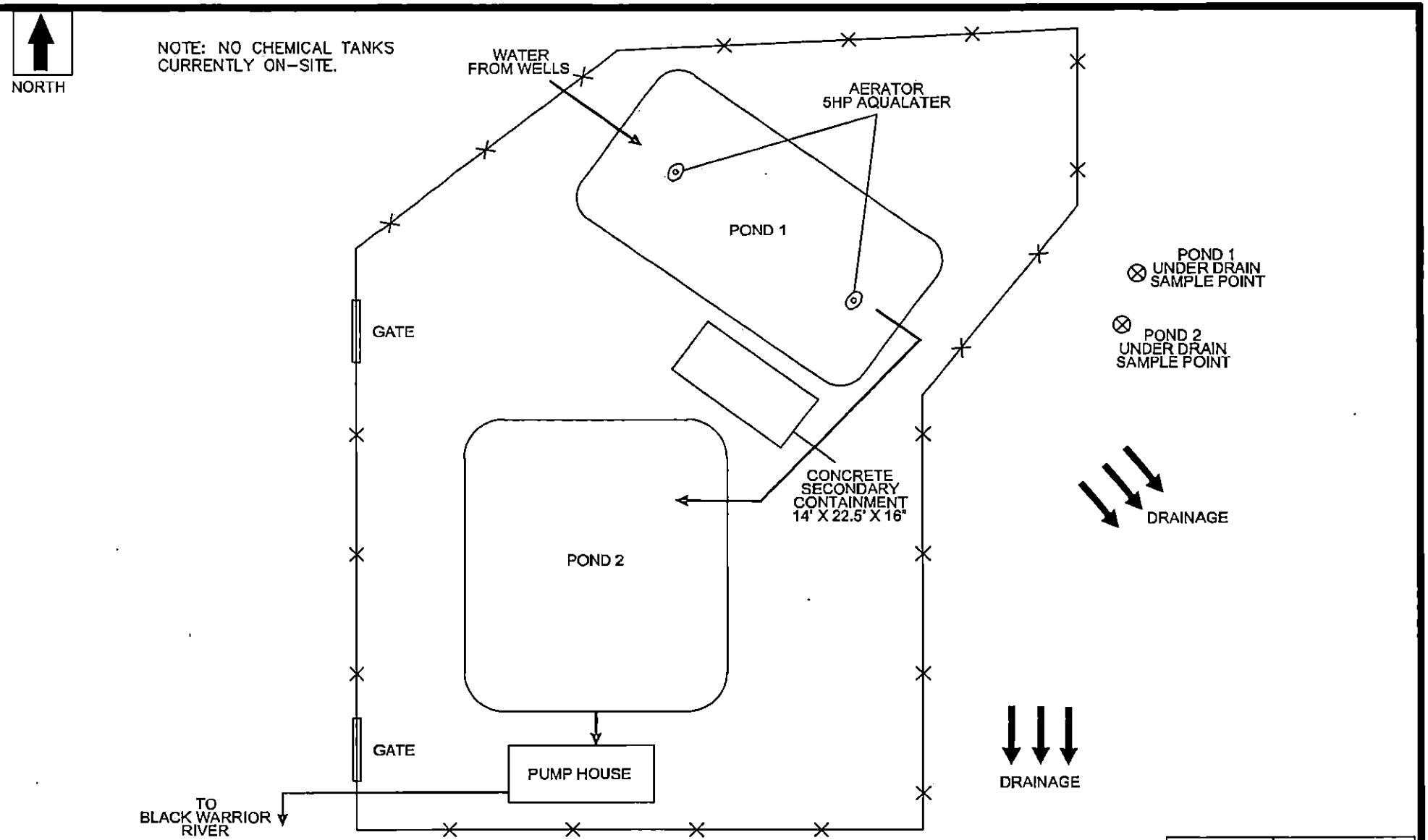

LATITUDE	33.275104 N
LONGITUDE	-87.440520 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

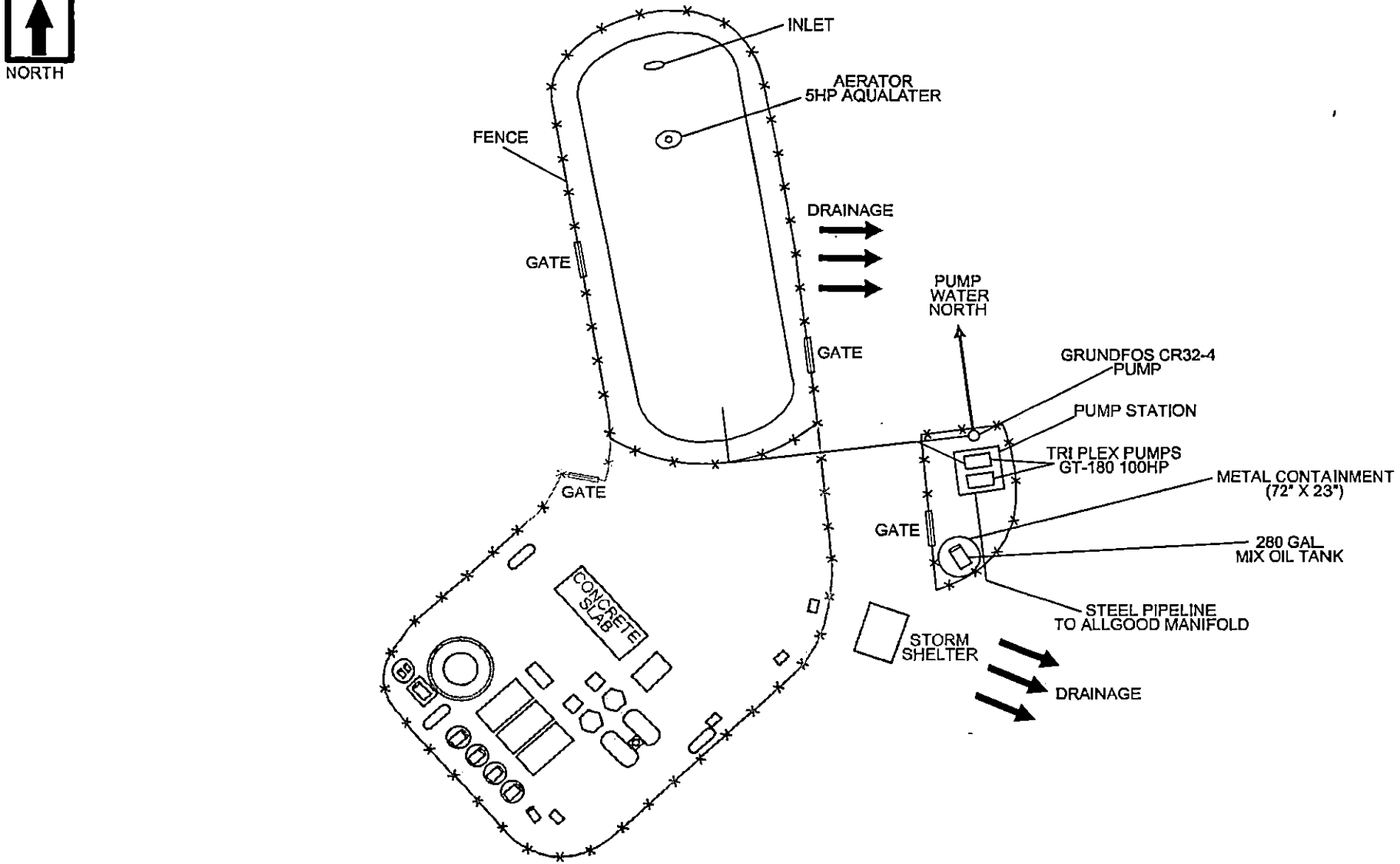
BLACK WARRIOR RIVER BASIN

SOUTH DEERLICK WATER TREATMENT FACILITY

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 26, TOWNSHIP 20 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 12 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
PAGE: N/A	DRAWN BY: D D H		



LATITUDE	33.485784 N
LONGITUDE	-87.551499 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

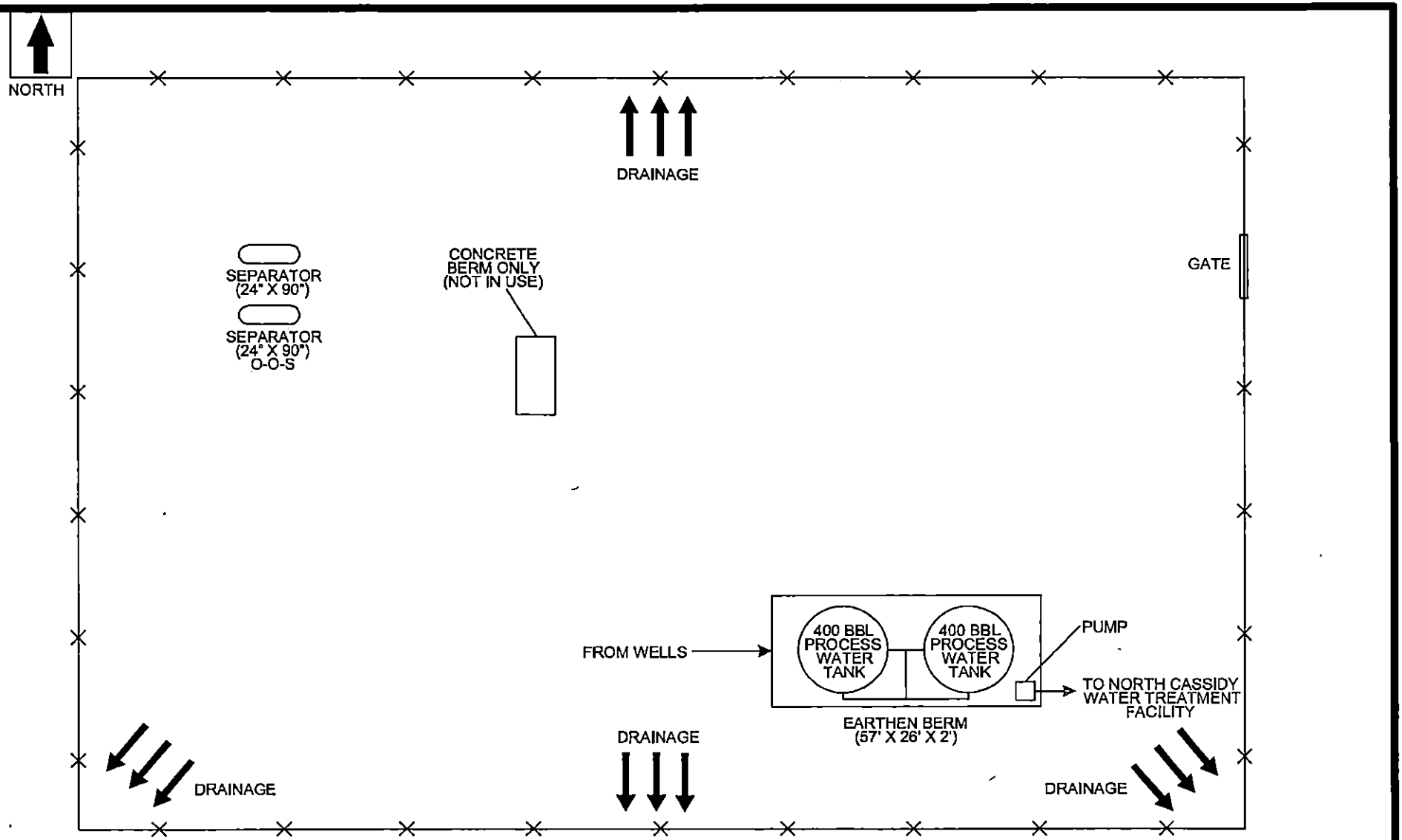
BLACK WARRIOR RIVER BASIN

WEST WHITSON WATER TREATMENT FACILITY

WARRIOR MET COAL

TUSCALOOSA COUNTY — SECTION 14, TOWNSHIP 18 SOUTH, RANGE 10 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 13 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
PAGE: N/A	DRAWN BY: D D H		



LATITUDE	33.468157 N
LONGITUDE	−87.416414 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

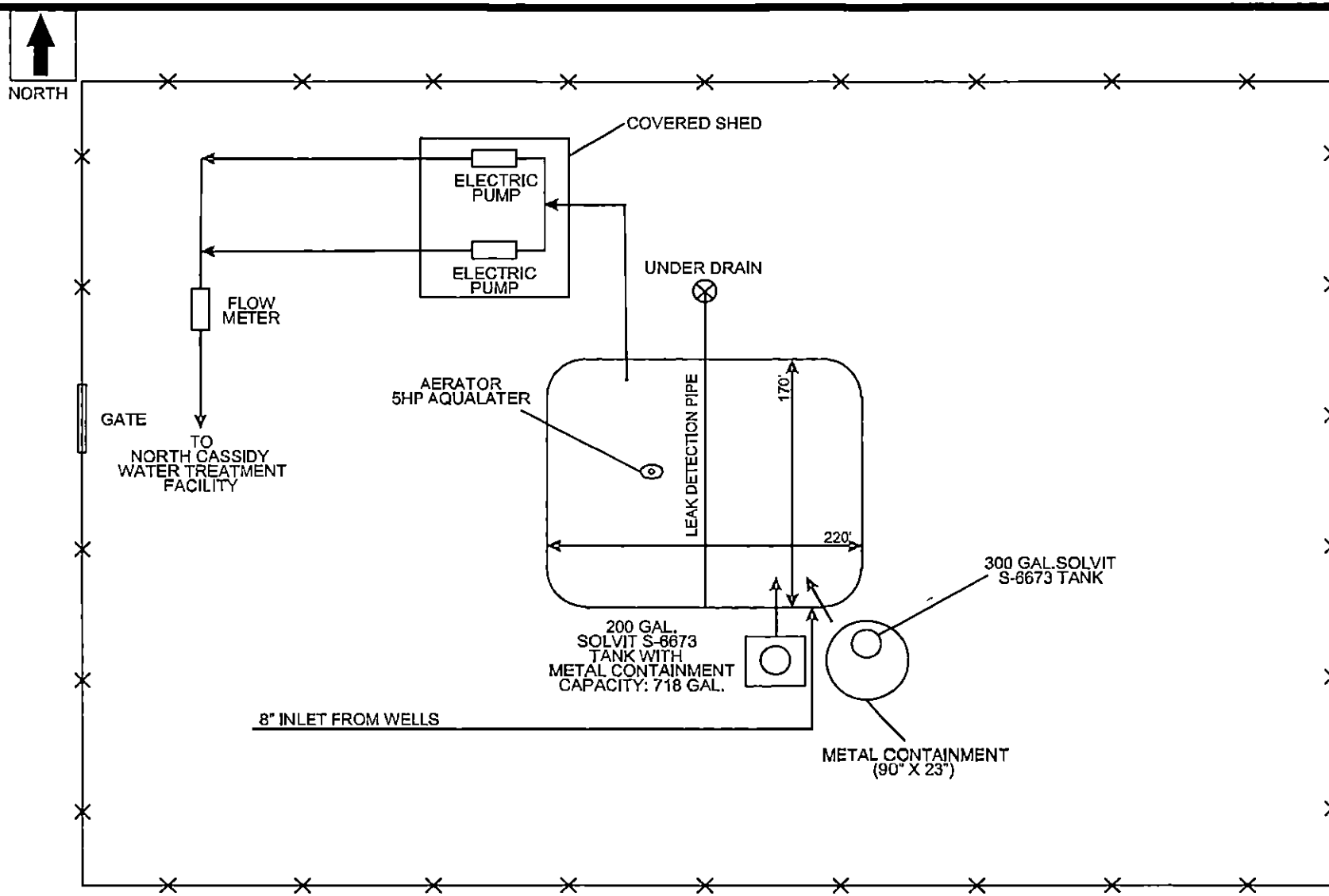
BLACK WARRIOR RIVER BASIN

WEST YELLOW CREEK 1 WATER TANKS

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 19, TOWNSHIP 18 SOUTH, RANGE 8 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 14 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
PAGE: N/A	DRAWN BY: D D H		



LATITUDE	33.516576 N
LONGITUDE	-87.435907 W

SCHEMATIC DRAWING ORIGINALLY CREATED BY TOM JOINER & ASSOCIATES, INC. 2015.
AUTHORIZED BY OWNER, WARRIOR MET COAL GAS, LLC, FOR UPDATE BY MCGIFFERT AND ASSOCIATES, LLC 2022.

McGiffert and Associates, LLC
SINCE 1949
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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

BLACK WARRIOR RIVER BASIN
WHITSON WATER TREATMENT FACILITY
WARRIOR MET COAL
TUSCALOOSA COUNTY SECTION 36, TOWNSHIP 17 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-WATER SCHEM		SHEET No. 15 of 15	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 151-22
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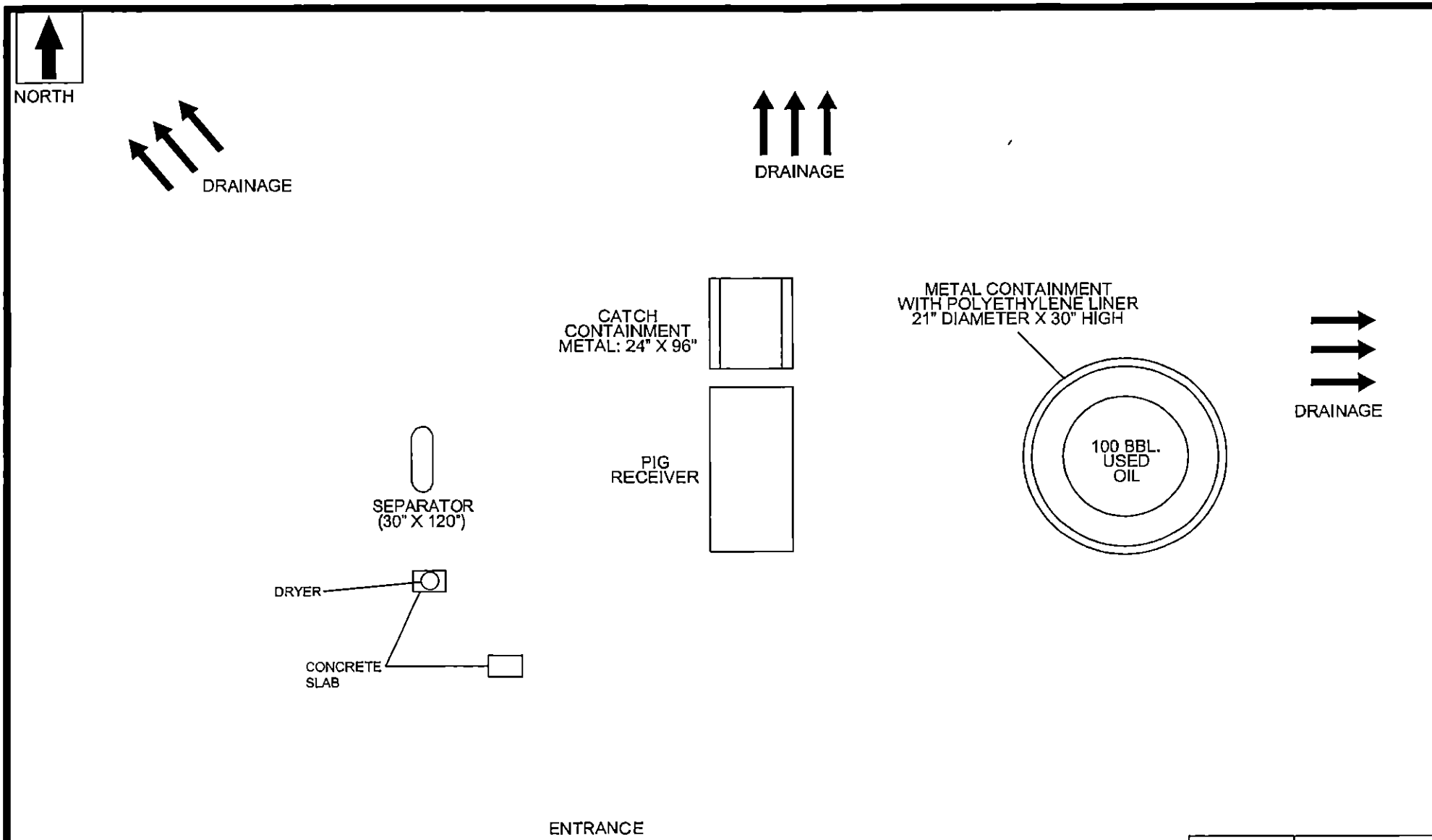

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BLACK WARRIOR RIVER BASIN

NUMBER 1 PIG RECEIVER

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 5, TOWNSHIP 19 SOUTH, RANGE 8 WEST

FILE NAME: WMC-BWRB-SPCC2022-OIL SCHEM		SHEET No. 1 of 6	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 152-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
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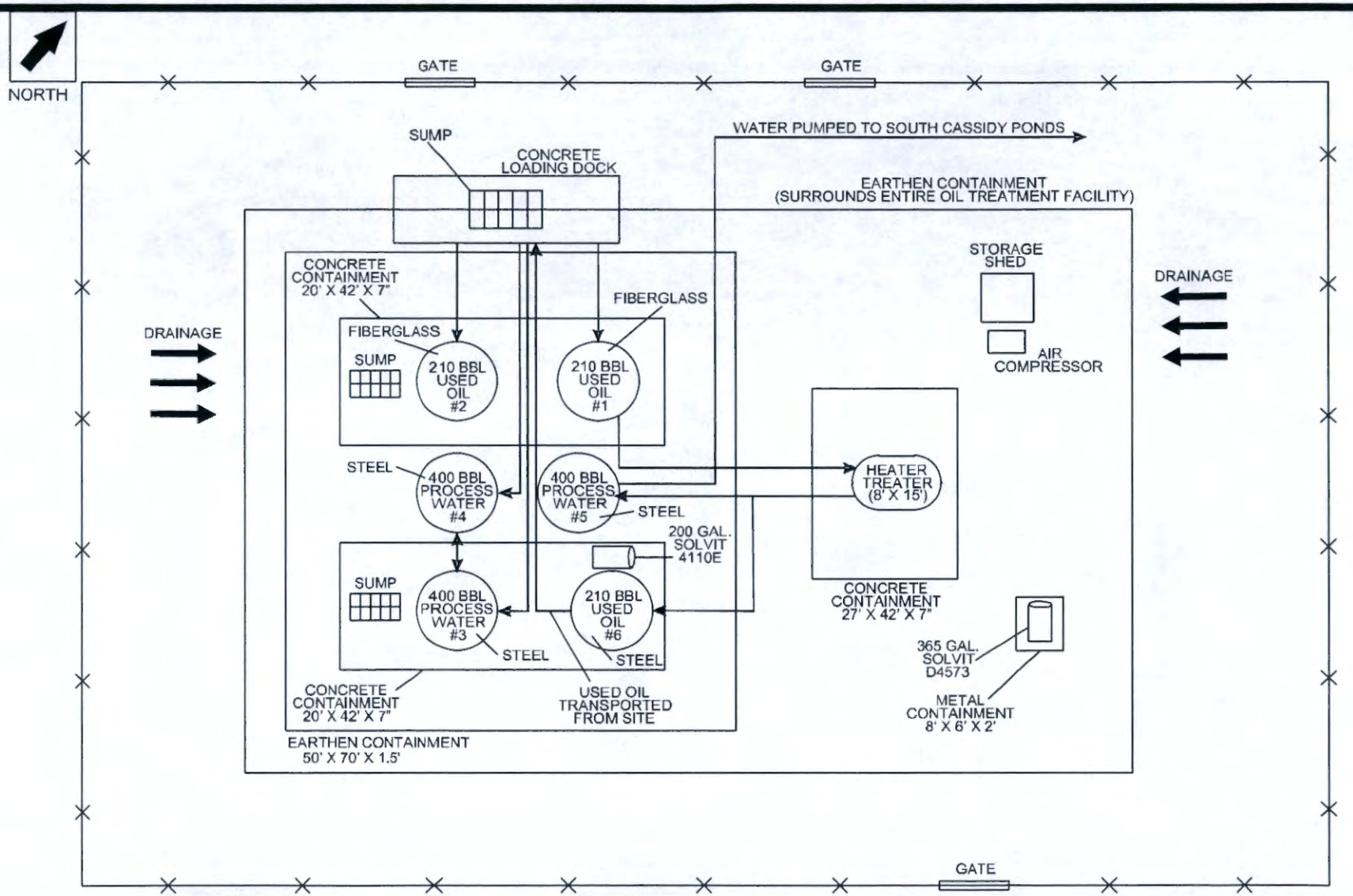

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REVISION		
DATE	DESCRIPTION	BY

BLACK WARRIOR RIVER BASIN

OIL TREATMENT FACILITY

WARRIOR MET COAL

TUSCALOOSA COUNTY — SECTION 5, TOWNSHIP 19 SOUTH, RANGE 8 WEST

FILE NAME: WMC-BWRB-SPCC2022-OIL SCHEM		SHEET No. 2 of 6	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 152-22
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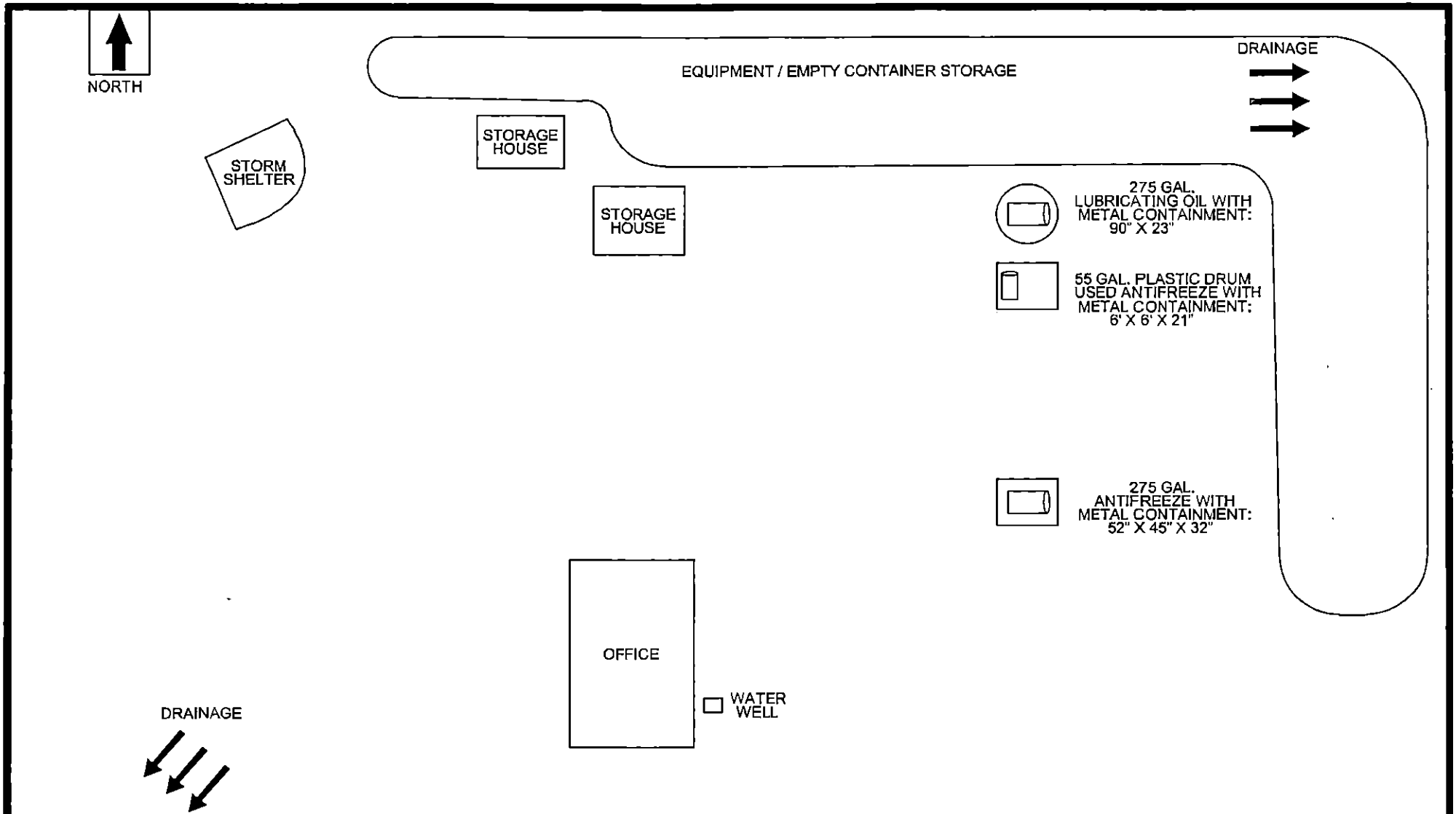

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LATITUDE	33.536662 N
LONGITUDE	-87.459216 W

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SCHEMATIC DRAWING

REVISION		
DATE	DESCRIPTION	BY

BLACK WARRIOR RIVER BASIN

WARRIOR MET COAL GAS FIELD OFFICE (WHITSON)

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 27, TOWNSHIP 19 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-OIL SCHEM		SHEET No. 3 of 6	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 152-22
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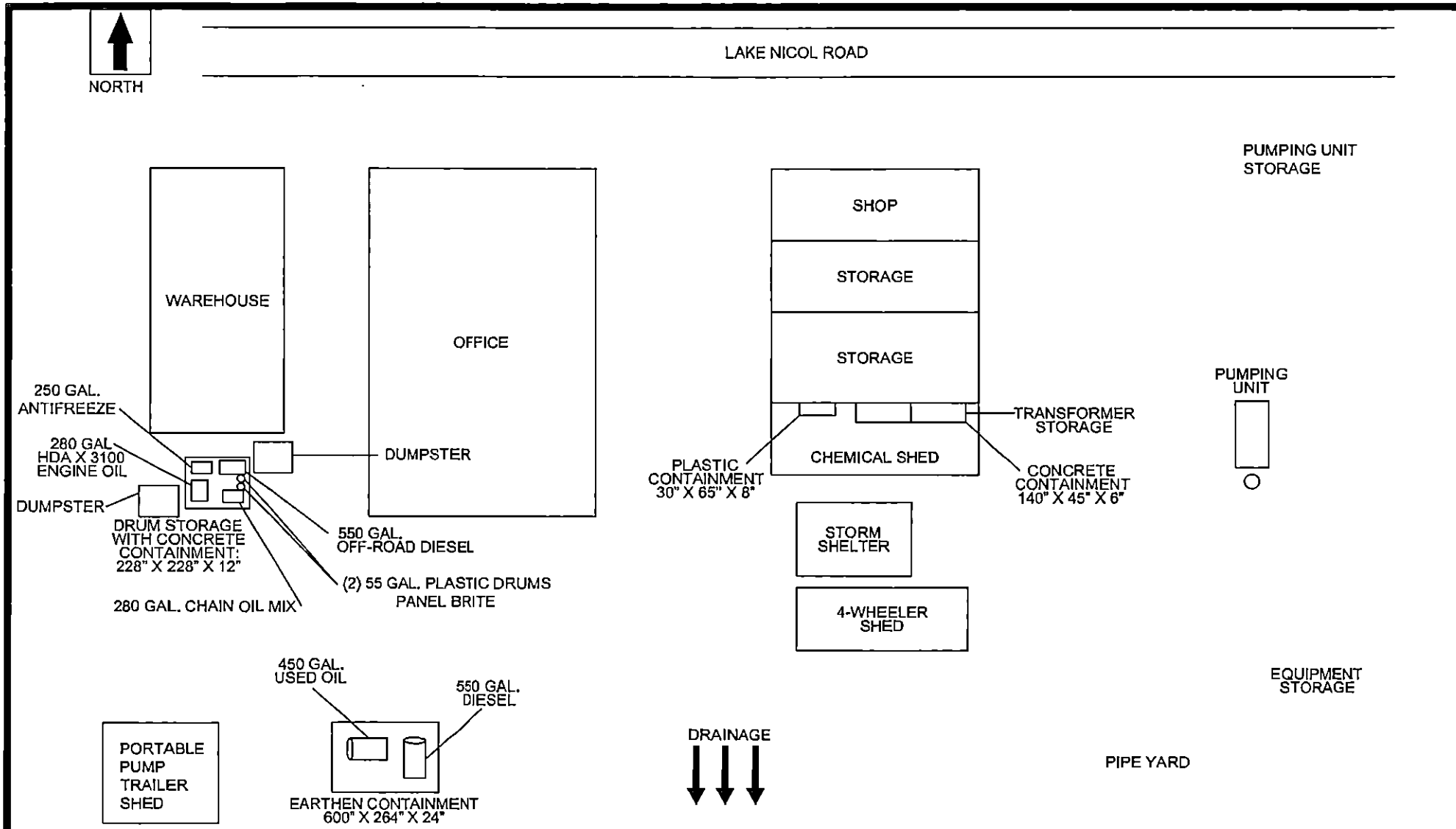

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DATE	DESCRIPTION	BY

BLACK WARRIOR RIVER BASIN
WARRIOR MET COAL GAS MAIN OFFICE
WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 14, TOWNSHIP 20 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-OIL SCHEM		SHEET No. 4 of 6	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 152-22
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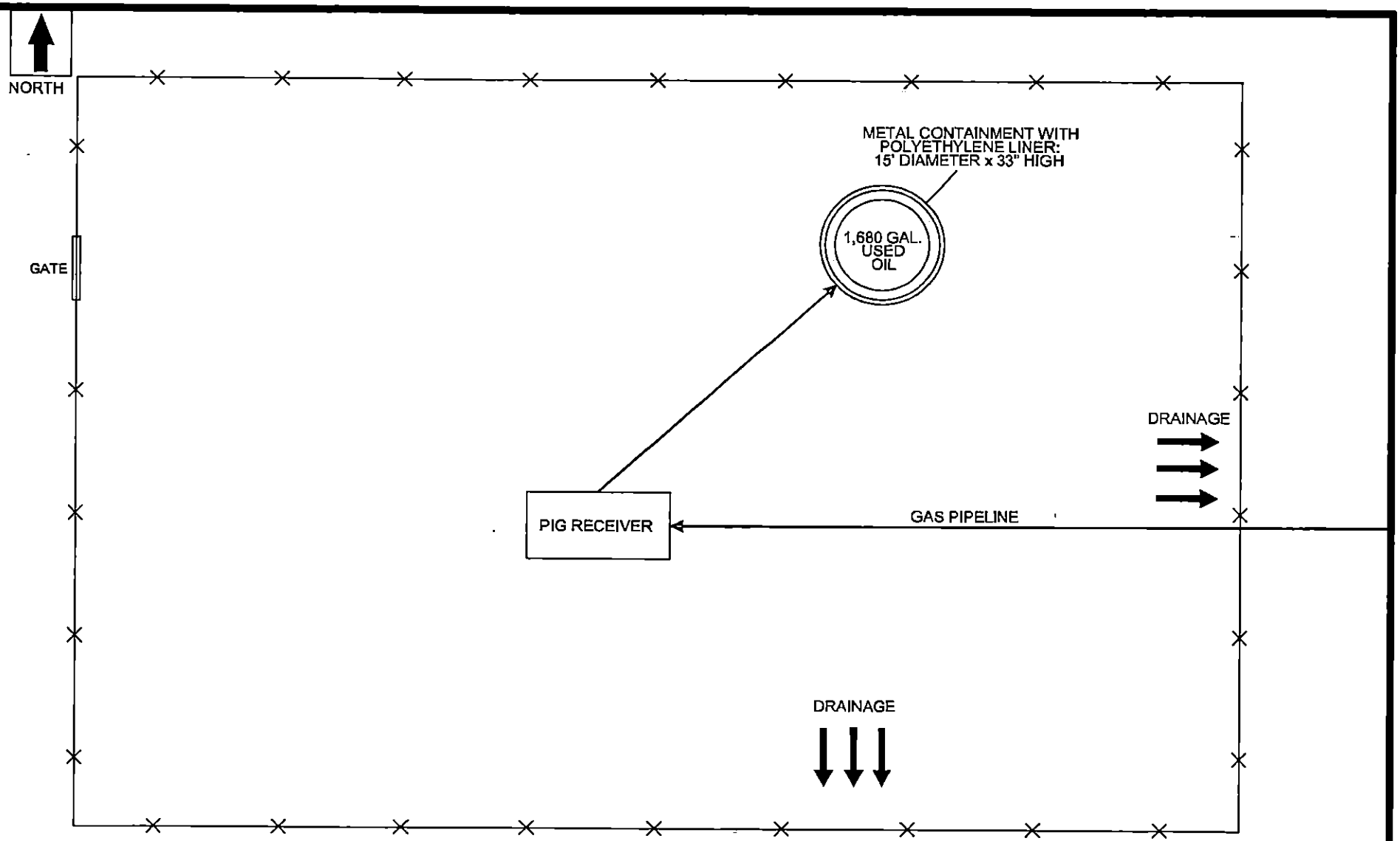

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BLACK WARRIOR RIVER BASIN

WHITSON DOT PIG RECEIVER

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 34, TOWNSHIP 18 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-OIL SCHEM		SHEET No. 5 of 6	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 152-22
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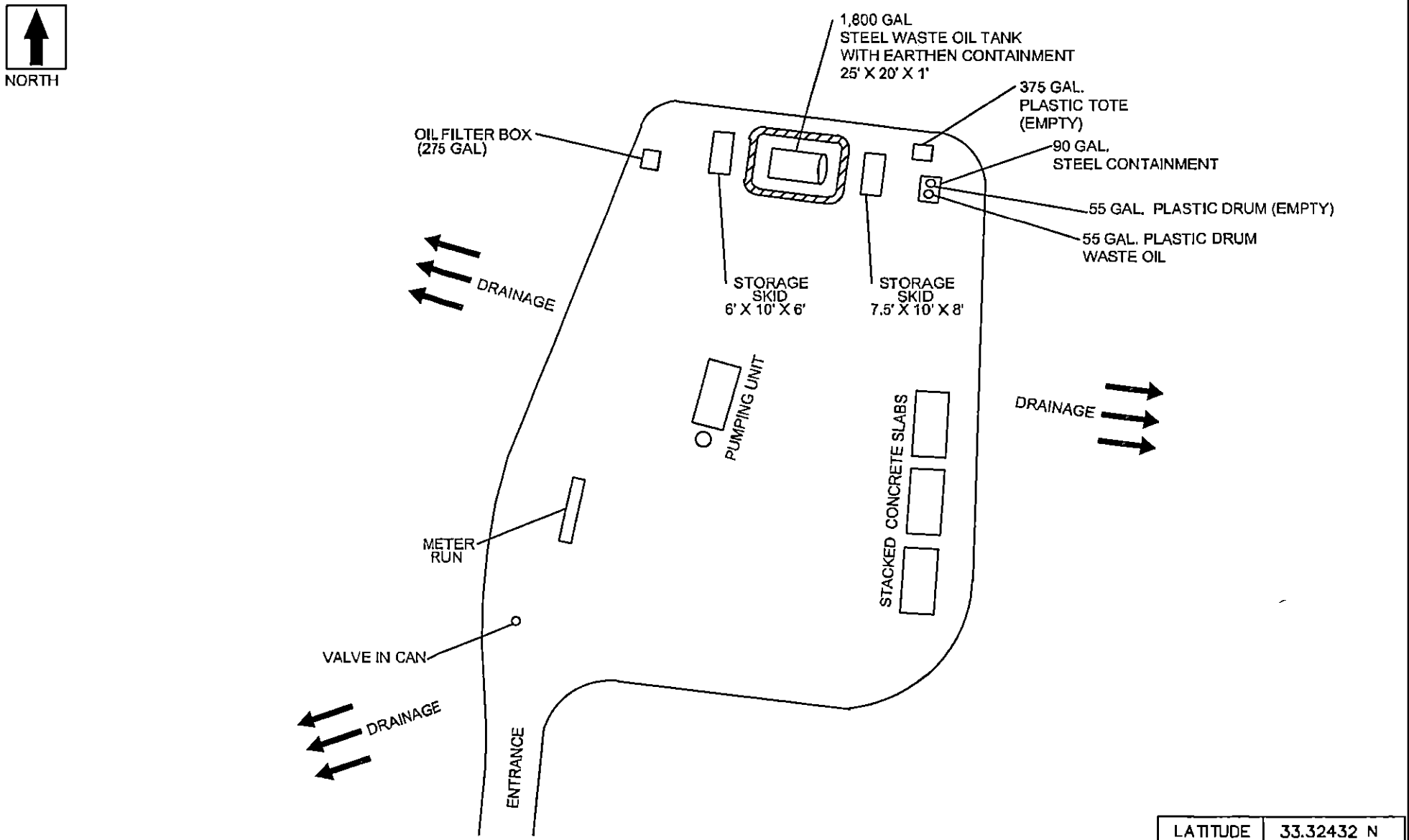

LATITUDE	33.32432 N
LONGITUDE	-87.44657 W

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DATE	DESCRIPTION	BY

BLACK WARRIOR RIVER BASIN

WEST 11-2-35 CRUDE OIL

WARRIOR MET COAL

TUSCALOOSA COUNTY SECTION 11, TOWNSHIP 20 SOUTH, RANGE 9 WEST

FILE NAME: WMC-BWRB-SPCC2022-OIL SCHEM		SHEET No. 6 of 6	
DATE OF FIELD SURVEY: N/A	JOB No. 22-3086	CHECKED BY: QHS	DWG. No. 152-22
FIELD BOOK: N/A	SCALE: NOT TO SCALE		
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APPENDIX C
Storage Tank Information Charts

FACILITY/DESCRIPTION	CAPACITY	MATERIAL	CONTENTS/PRODUCT
Allgood 1 Compressor Station			
Storage Tank	50 BBL	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	275 Gallon	Steel	Engine Oil
-Secondary Containment	630 Gallon	Steel	N/A
Cassidy 2 Compressor Station			
Storage Tank	50 BBL	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	275 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Cassidy 4 Compressor Station			
Storage Tank	50 BBL	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	275 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Cassidy 6 Compressor Station			
Storage Tank	50 BBL	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
Storage Tank	46 BBL	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	280 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tote	275 Gallon	Plastic	Used Antifreeze
-Secondary Containment	630 Gallon	Steel	N/A

FACILITY/DESCRIPTION	CAPACITY	MATERIAL	CONTENTS/PRODUCT
Cassidy Sales 2 Compressor Station			
Storage Tank	210 BBL	Steel	Used Oil
-Secondary Containment	346 BBL	Metal with Poly Liner	N/A
Storage Tote	300 Gallon	Plastic	Used Oil
Storage Drum	55 Gallon	Steel	Used Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tote	300 Gallon	Plastic	Used Antifreeze
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	100 BBL	Steel	Used Oil
-Secondary Containment	154 BBL	Metal with Poly Liner	N/A
Storage Drum	55 Gallon	Steel	Methanol
-Secondary Containment	150 Gallon	Plastic	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Drum	55 Gallon	Steel	Methanol
-Secondary Containment	150 Gallon	Plastic	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Drum	55 Gallon	Steel	Methanol
-Secondary Containment	150 Gallon	Plastic	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	300 Gallon	Steel	Glycol
-Secondary Containment	718 Gallon	Steel	N/A
Storage Tank	300 Gallon	Steel	Glycol
-Secondary Containment	718 Gallon	Steel	N/A
Storage Tank	300 Gallon	Steel	Glycol
-Secondary Containment	718 Gallon	Steel	N/A

FACILITY/DESCRIPTION	CAPACITY	MATERIAL	CONTENTS/PRODUCT
East Deerlick 2 Compressor Station			
Storage Tank	50 BBL	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tote	275 Gallon	Plastic	Antifreeze
Storage Tote	275 Gallon	Plastic	Used Antifreeze
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tote	275 Gallon	Plastic	Used Oil
-Secondary Containment	725 Gallon	Plastic	N/A
Lake Nicol 1 Compressor Station			
Storage Tank	50 BBL	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tote	350 Gallon	Steel	Used Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	350 Gallon	Steel	Engine Oil
-Secondary Containment	630 Gallon	Steel	N/A
North Deerlick Creek 2 Compressor Station			
Storage Tank	50 BBL	Steel	Used Oil
-Secondary Containment	94 BBL	Metal with Poly Liner	N/A
South Deerlick Creek Compressor Station			
Storage Tank	100 BBL	Steel	Used Oil
-Secondary Containment	168 BBL	Metal with Poly Liner	N/A
Storage Tote	325 Gallon	Plastic	Antifreeze
Storage Tote	325 Gallon	Plastic	Used Antifreeze
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	275 Gallon	Steel	Used Oil
-Secondary Containment	718 Gallon	Steel	N/A
Storage Drum	55 Gallon	Steel	Methanol
-Secondary Containment	90 Gallon	Steel	N/A

FACILITY/DESCRIPTION	CAPACITY	MATERIAL	CONTENTS/PRODUCT
Warrior Ridge 1 Compressor Station			
Storage Tank	50 BBL	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	275 Gallon	Steel	Used Oil
-Secondary Containment	630 Gallon	Steel	N/A
West Warrior Ridge 1 Compressor Station			
Storage Tank	50 BBL	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tote	275 Gallon	Plastic	Used Oil
Storage Tote	275 Gallon	Plastic	Antifreeze
Storage Tote	275 Gallon	Plastic	Used Antifreeze
-Secondary Containment	630 Gallon	Steel	N/A
Warrior Ridge 2A Compressor Station			
Storage Tank	50 BBL	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
West Whitson Booster Compressor			
Storage Tank	210 BBL	Steel	Used Oil
-Secondary Containment	257 BBL	Metal with Poly Liner	N/A
Storage Tote	275 Gallon	Plastic	Antifreeze
Storage Tote	275 Gallon	Plastic	Used Antifreeze
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	275 Gallon	Plastic	Used Oil
-Secondary Containment	718 Gallon	Steel	N/A
Storage Tank	275 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	275 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	350 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	275 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Drum	55 Gallon	Steel	Methanol
-Secondary Containment	90 Gallon	Steel	N/A
Storage Tote	300 Gallon	Plastic	Empty
-Secondary Containment	808 Gallon	Steel	N/A

FACILITY/DESCRIPTION	CAPACITY	MATERIAL	CONTENTS/PRODUCT
West Yellow Creek 1 Compressor Station			
Storage Tank	400 BBL	Steel	Process Water
Storage Tank	400 BBL	Steel	Process Water
-Secondary Containment	528 BBL	Earthen	N/A
Whitson Compressor Sales Station			
Storage Tank	50 BBL	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
Storage Tank	400 BBL	Steel	Process Water
-Secondary Containment	471 BBL	Concrete	N/A
Storage Tote	300 Gallon	Plastic	Used Antifreeze
Storage Tote	300 Gallon	Plastic	Used Antifreeze
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tote	300 Gallon	Plastic	Antifreeze
Storage Tote	300 Gallon	Plastic	Antifreeze
-Secondary Containment	630 Gallon	Steel	N/A
Storage Drum	55 Gallon	Steel	Methanol
-Secondary Containment	90	Steel	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	550 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Drum	55 Gallon	Steel	Methanol
-Secondary Containment	90 Gallon	Steel	N/A
Storage Tote	250 Gallon	Plastic	Empty (capped/plugged)
Storage Tote	250 Gallon	Plastic	Empty (capped/plugged)
Storage Tote	250 Gallon	Plastic	Empty (capped/plugged)
Storage Tote	250 Gallon	Plastic	Empty (capped/plugged)

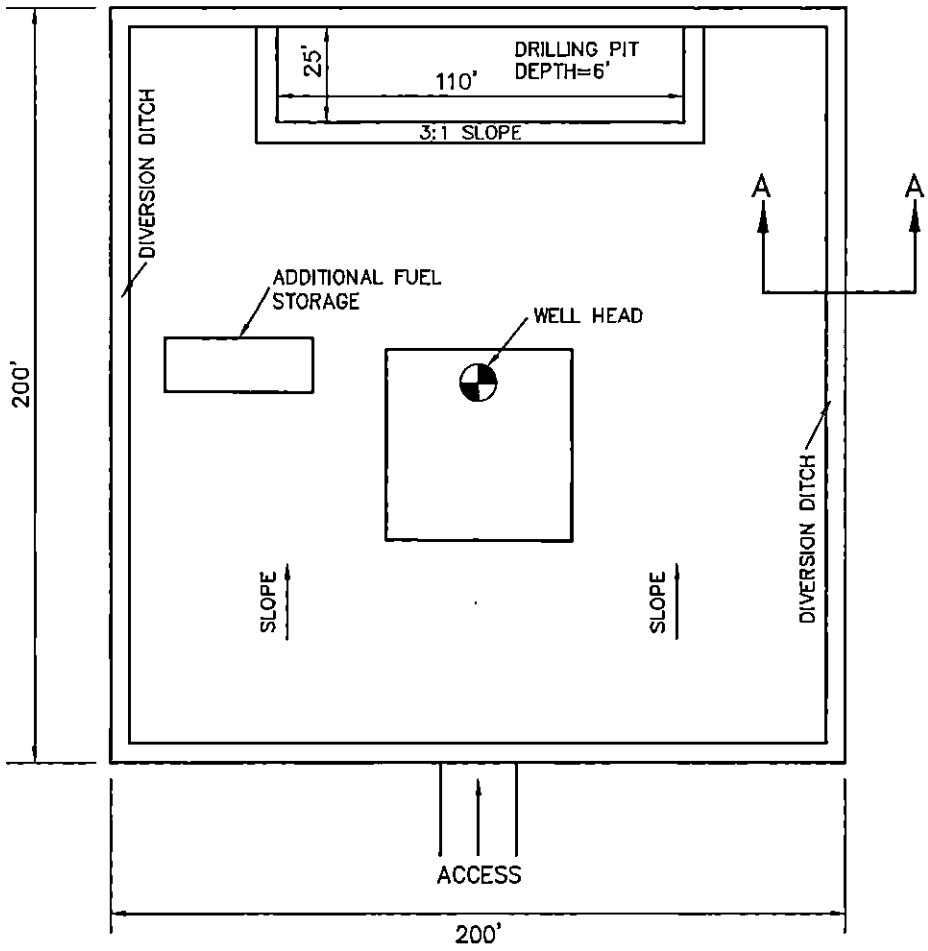
FACILITY/DESCRIPTION	CAPACITY	MATERIAL	CONTENTS/PRODUCT
Yellow Creek 1 Compressor Station			
Storage Tank	100 BBL	Steel	Used Oil
-Secondary Containment	168 BBL	Metal with Poly Liner	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	530 Gallon	Steel	Lubricating Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tote	275 Gallon	Plastic	Used Oil
Storage Tote	275 Gallon	Plastic	Used Oil
Storage Tote	275 Gallon	Plastic	Antifreeze
-Secondary Containment	630 Gallon	Steel	N/A
Allgood Water Treatment Facility			
*No Chemical Tanks Currently Stored On-Site			
Blue Rock Pit Water Tanks			
Storage Tank	400 BBL	Steel	Process Water
Storage Tank	400 BBL	Steel	Process Water
-Secondary Containment	1550 BBL	Earthen	N/A
Chevron 1-12-15 Water Tanks (Red Hill)			
Storage Tank	210 BBL	Steel	Process Water
-Secondary Containment	1,200 BBL	Earthen with Poly Liner	N/A
Chevron 13-16-109 Water Tanks			
Storage Tank	500 BBL	Fiberglass	Process Water
Storage Tank	500 BBL	Fiberglass	Process Water
-Secondary Containment	1,120 BBL	Metal with Poly Liner	N/A
Storage Tank	110 Gallon	Steel	Used Oil
-Secondary Containment	585 Gallon	Metal with Poly Liner	N/A
Chevron 29-15-358 Water Tanks			
Storage Tank	470 BBL	Steel	Process Water
Storage Tank	470 BBL	Steel	Process Water
-Secondary Containment	1,025 BBL	Metal with Poly Liner	N/A
East Deerlick Water Treament Facility			
-Secondary Containment	1,945 Gallon	Concrete	N/A
Storage Tote	325 Gallon	Plastic	Hydrochloric Acid 22%
-Secondary Containment	630 Gallon	Steel	N/A

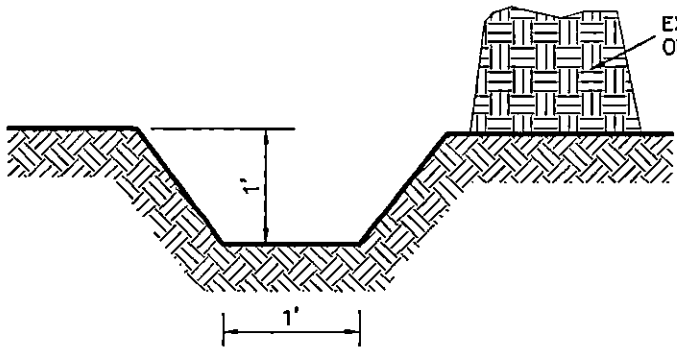
FACILITY/DESCRIPTION	CAPACITY	MATERIAL	CONTENTS/PRODUCT
Jolen 27-4-949 Water Tanks			
Storage Tank	400 BBL	Steel	Process Water
Storage Tank	400BBL	Steel	Process Water
-Secondary Containment	770 BBL	Earthen Berm	N/A
Million Dollar Hill Water Tanks			
Storage Tank	400 BBL	Steel	Process Water
Storage Tank	400 BBL	Steel	Process Water
Storage Tank	400BBL	Steel	Process Water
-Secondary Containment	1675 BBL	Earthen	N/A
North Cassidy Water Treament Facility			
-Secondary Containment	1,436 Gallon	Concrete	N/A
Storage Tote	330 Gallon	Plastic	Hydrochloric Acid 22%
-Secondary Containment	630 Gallon	Steel	N/A
Ramsey-McCormack 35-6 #4			
Storage Tank	500 BBL	Steel	Process Water
Storage Tank	500 BBL	Steel	Process Water
-Secondary Containment	826 BBL	Metal with Poly Liner	N/A
South Cassidy Water Treatment Facility			
*No Chemical Tanks Currently Stored On-Site			
South Deerlick Water Treatment Facility			
*No Chemical Tanks Currently Stored On-Site			
West Whitson Water Treatment Facility			
Storage Tote	280 Gallon	Steel	Mix Oil
-Secondary Containment	630 Gallon	Steel	N/A

FACILITY/DESCRIPTION	CAPACITY	MATERIAL	CONTENTS/PRODUCT
West Yellow Creek 1 Water Tanks			
Storage Tank	400 BBL	Steel	Process Water
Storage Tank	400 BBL	Steel	Process Water
-Secondary Containment	528 BBL	Earthen	N/A
Whitson Water Treatment Facility			
Storage Tank	200 Gallon	Plastic	Solvit S-6673
-Secondary Containment	718 Gallon	Steel	N/A
Storage Tank	300 Gallon	Plastic	Solvit S-6673
-Secondary Containment	630 Gallon	Steel	N/A
Number 1 Pig Receiver			
Storage Tank	100 BBL	Steel	Used Oil
-Secondary Containment	154 BBL	Metal with Poly Liner	N/A
Oil Treatment Facility			
Storage Tank	210 BBL	Fiberglass	Used Oil
Storage Tank	210 BBL	Fiberglass	Used Oil
Storage Tank	400 BBL	Steel	Process Water
Storage Tank	400 BBL	Steel	Process Water
Storage Tank	400 BBL	Steel	Process Water
Storage Tank	210 BBL	Steel	Used Oil
Storage Tank	200 Gallon	Plastic	Solvit 4110E
-Secondary Containment	935 BBL	Earthen	N/A
Storage Tank	134 BBL	Steel	Oil/Water Emulsion
-Secondary Containment	118 BBL	Concrete	N/A
Storage Tote	365 Gallon	Steel	Solvit D4573
-Secondary Containment	718 Gallon	Steel	N/A
Warrior Met Coal Gas Field Office (Whitson)			
Storage Tank	275 Gallon	Steel	Lube Oil
-Secondary Containment	630 Gallon	Steel	N/A
Storage Tank	55 Gallon	Plastic	Used Antifreeze
-Secondary Containment	470 Gallon	Steel	N/A
Storage Tote	275 Gallon	Plastic	Antifreeze
-Secondary Containment	322 Gallon	Steel	N/A

FACILITY/DESCRIPTION	CAPACITY	MATERIAL	CONTENTS/PRODUCT
Warrior Met Coal Gas Field Office			
Storage Tank	280 Gallon	Steel	HDAX 3100 Engine Oil
Storage Tank	550 Gallon	Steel	Off-Road Diesel
Storage Tote	250 Gallon	Plastic	Antifreeze
Storage Drum	55 Gallon	Plastic	Panel Brite
Storage Drum	55 Gallon	Plastic	Panel Brite
Storage Tank	280 Gallon	Steel	Chain Oil Mix
-Secondary Containment	2,700 Gallon	Concrete	N/A
Storage Tank	450 Gallon	Steel	Used Oil
Storage Tank	550 Gallon	Steel	Diesel
-Secondary Containment	392 BBL	Earthen	N/A
Whitson DOT Pig Receiver			
Storage Tank	1,680 Gallon	Steel	Used Oil
-Secondary Containment	86 BBL	Metal with Poly Liner	N/A
West 11-2-35 Crude Oil			
Storage Drum	55 Gallon	Plastic	Waste Oil
Storage Drum	55 Gallon	Plastic	Empty
-Secondary Containment	90 Gallon	Steel	N/A
Storage Tank	1,800 Gallon	Steel	Waste Oil
-Secondary Containment	3,740 Gallon	Steel	N/A

APPENDIX D
Typical Well Site Plans





TYPICAL DIVERSION DITCH
SECTION "A–A"

NOTE: LAYOUT OF PAD WILL VARY FROM ONE LOCATION TO ANOTHER. SOME PADS MAY REQUIRE 150' x 250'

McGiffert and Associates, LLC
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TUSCALOOSA, ALABAMA 35402-0559
WWW.MCGIFFERT.COM (205)759-1521 FAX (205)759-1524

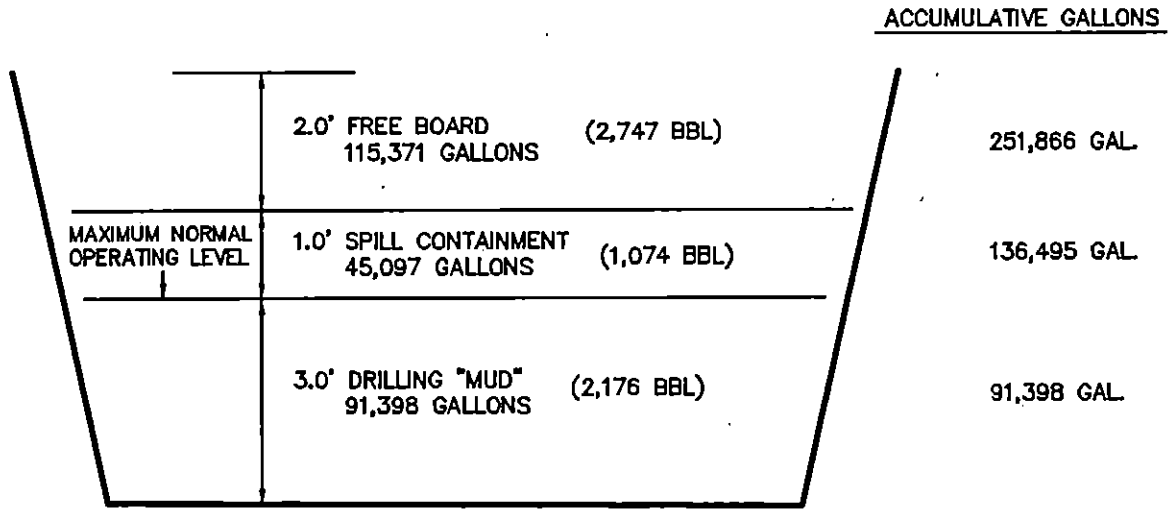
WARRIOR MET COAL GAS, LLC
WELL PAD LAYOUT
DRILLING/COMPLETION PHASE
TUSCALOOSA, WALKER, AND FAYETTE COUNTIES ALABAMA

TYPICAL WELL SITE

REVISION

DATE	DESCRIPTION	BY

SCALE: NOT TO SCALE	
DATE OF FIELD SURVEY: N/A	
FB. N/A	PG. N/A
DRAWN BY: D D H	
JOB No. 22-3086	
FILE NAME: WMC-BWRB-SPCC2022-TWS	
SHEET No. 1 of 3	
CHECKED BY: QHS	DWG. No. 153-22



BOTTOM DIMENSION = 110' x 25' WITH 3:1 SLOPE

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WARRIOR MET COAL GAS, LLC
RETENTION STRUCTURE DESIGN DATA
DRILLING/COMPLETION PHASE

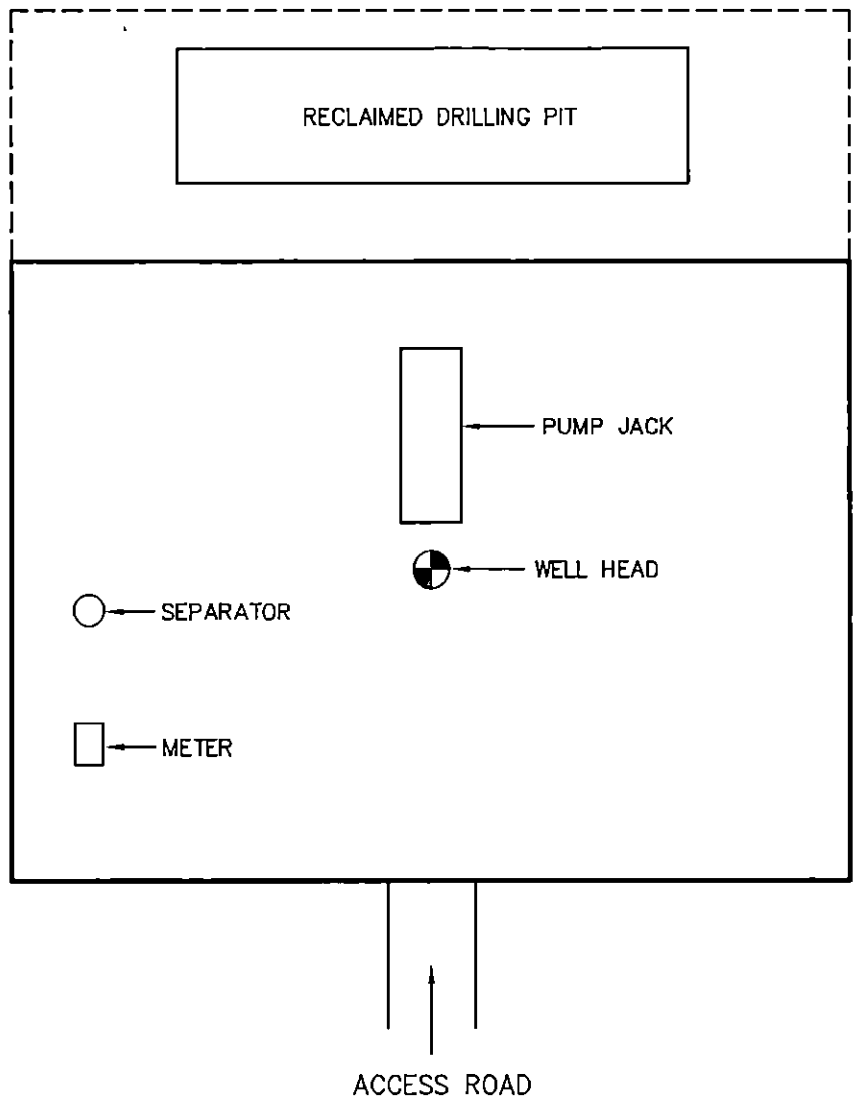
TUSCALOOSA, WALKER, AND FAYETTE COUNTIES ALABAMA

TYPICAL WELL SITE

REVISION

DATE	DESCRIPTION	BY

SCALE: NOT TO SCALE
DATE OF FIELD SURVEY: N/A
FB. N/A PG. N/A
DRAWN BY: D D H
JOB No. 22–3086
FILE NAME: WMC–BWRB–SPCC2022–TWS
SHEET No. 2 of 3
CHECKED BY: QHS
DWG. No. 153–22



NOTE:
AREA OUTSIDE OF IMMEDIATE PAD AREA WILL BE VEGETATED WITH GRASS, TREES OR OTHER VEGETATION TO CONTROL SOIL EROSION

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— SINCE 1949 —
CIVIL ENGINEERS
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WARRIOR MET COAL GAS, LLC

COMPLETED WELL SITE

TUSCALOOSA, WALKER, AND FAYETTE COUNTIES ALABAMA

TYPICAL WELL SITE

REVISION

DATE	DESCRIPTION	BY

SCALE: NOT TO SCALE
DATE OF FIELD SURVEY: N/A
FB. N/A PG. N/A
DRAWN BY: D D H
JOB No. 22-3086
FILE NAME: WMC-BWRB-SPCC2022-TWS
SHEET No. 3 of 3
CHECKED BY: QHS
DWG. No. 153-22

APPENDIX E
Secondary Containment Inspection Checklist

Secondary Containment Inspection Checklist

Warrior Met Coal Gas, LLC

Tuscaloosa, Walker, and Fayette Counties

FACILITY SITE: _____

YEAR: _____

Inspection of all secondary containment structures should be perfomed on a quarterly basis in accordance with this plan and 40 CFR 112.7(a)(3)(iii)

Facility Supervisor								
Date of Inspection	1st Qtr:		2nd Qtr:		3rd Qtr:		4th Qtr:	
	Check For	*Done*	*Comments/Location*	*Done*	*Comments/Location*	*Done*	*Comments/Location*	*Done*	*Comments/Location*
Containment Area Discription: _____	Presence of leaked or spilled liquid								
	Discoloration of structure or soil berm								
	Status of Drainage Valve								
	Cracks in concrete continment								
	Settling or weakness in soil berm								
	Corrosion of containment structure								
	Debris or used containers								
	Status of area beneath tanks								
	Stormwater level and capacity								
COMMENTS / ACTION									

Attach additional sheets as required to record issues and actions taken.

APPENDIX F
Secondary Containment
Drainage Report

Secondary Containment Drainage Report

Warrior Met Coal Gas, LLC

Tuscaloosa, Walker, and Fayette Counties

FACILITY SITE: _____

YEAR: _____

When stormwater is released from a secondary containment area, it must not have a sheen. If a sheen is present, the water must be cleaned by use of absorbent pads, absorbent booms or other approved methods. Once the sheen is removed, the water may be either pumped or drained. If the water cannot be adequately cleaned then the owner should be contacted to provide guidance for addtional cleanup measures.

The following record report should be filled out everytime a discharge from a secondary containment area occurs.

Date	Facility Supervisor	Sheen Present		Describe absorbant material if used	Water Removal		Gallons of Water Removed (estimate)
		Yes	No		Start Time	End Time	

APPENDIX G
Tank & Piping
Inspection Checklist

Tank & Piping Inspection Checklist

Warrior Met Coal Gas, LLC

Tuscaloosa, Walker, and Fayette Counties

FACILITY SITE: _____

YEAR: _____

Inspection of all tanks and pipes should be perfomed on a quarterly basis to identify the potential for leaks and perform proactive maintanence.

Facility Supervisor										
Date of Inspection		1st Qtr:		2nd Qtr:		3rd Qtr:		4th Qtr:		
	Check For	*Done*	*Comments/Location*	*Done*	*Comments/Location*	*Done*	*Comments/Location*	*Done*	*Comments/Location*
TANK Observations	Puddles of Leaks								
	Drip Marks								
	Tank Discoloration								
	Corrosion								
	Cracks								
	Tank Supports								
PIPING Observations	Drips or Droplets of Liquid								
	Seepage at Valves or Seals								
	Bending of Between Supports								
	Abrasions / Rubbing at Supports								
	Corrosion								
	Discoloration								
COMMENTS / ACTION									

Attach additional sheets as required to record issues and actions taken.

APPENDIX H
Annual Inspection Record

Annual Inspection Record

Warrior Met Coal Gas, LLC

Tuscaloosa, Walker, and Fayette Counties

AREA: _____

SUPERINTENDENT: _____

FACILITY SITE: _____

DATE OF INSPECTION: _____

I. **STORAGE TANKS**

General Condition; _____

_____

_____

_____

_____

Foundation and Supports: _____

_____

Shut Down Switches: _____

_____

II. **FIREWALLS**

Adequacy of size: _____

_____

General Condition: _____

_____

_____

Drains: _____

_____

_____

III. **LEASE OPERATOR INTERVIEW** to discuss condition of valves, pipelines, flange joints, valve glands and bodies, drip pan, pipeline supports, stuffing boxes, and bleeder and gauge valves:

_____

_____

_____

_____

_____

_____

Annual Inspection Record

Warrior Met Coal Gas, LLC

Tuscaloosa, Walker, and Fayette Counties

IV. FLOWLINES

WELL NO.	DATE INSTALLED	CORROSION PROTECTION	TEST DATE	DATE LAST WALKED	PROPOSED DATE FOR NEXT REPLACEMENT

GENERAL COMMENTS: **Identify concerns and prioritize work schedule. Include dates work is scheduled, if applicable.**

APPENDIX I
Spill Incident Report Form

WARRIOR MET COAL GAS, LLC

Spill Incident Report Form

Location & Date

Spill Location _____ Area _____ Date of Incident _____ Time _____

County Name _____ State _____ Lat/ Long _____

Receiving Water (if applicable) _____ Adjacent Property _____

Representative at Location _____ Phone _____

Directions to Location _____

Incident

Description of Incident _____

Type & Amount of	Spill	Liters	Gallons
Circle Type of material spilled and complete volumes. Specify type of Chemical, etc.	Oil		
	Diesel Fuel		
	Anti-Freeze		
	Chemical		
	Other		

Area Impacted _____
(Describe and Complete Table) _____

	In Water	On Land	Contained (Y/N)
Length (ft)			
Width (ft)			
Depth (ft)			
Appearance			

Weather & Stream Conditions: Temperature (F) _____ Forecast _____ Stream Conditions _____

Current Conditions _____ Conditions _____

Response Action

Clean-up / Response Actions _____

Action to Prevent Recurrence _____

Signatures and Comments

Comments (Use back for additional comments) _____

Supervisor's Signature _____ Date _____ Phone No. _____

Reports to Regulatory Agencies

Agency	Case No.	Reported By	Reported to	Date & Time

APPENDIX J
Discharge Prevention Briefing Log

Discharge Prevention Briefing Log

Warrior Met Coal Gas, LLC

Tuscaloosa, Walker, and Fayette Counties

Date: _____

Attendees:

_____ _____ _____

_____ _____ _____

_____ _____ _____

Subject/Issue Identified	Required Action	Implementation Details

APPENDIX K
Response Equipment Inspection Log

Response Equipment Inspection Log

Warrior Met Coal Gas, LLC

Tuscaloosa, Walker, and Fayette Counties

Check for the following:

1. Inventory (item and quantity)
2. Storage location
3. Accessibility (time to access and respond)
4. Operational status/condition
5. Actual use/testing (last test date and frequency of testing)
6. Shelf life (present age, expected replacement date)

Facility Supervisor	Date	Comments