



**Alabama Department of Environmental Management**  
**adem.alabama.gov**

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**DEC 22 2020**

DAVID GIROUARD  
PLANT MANAGER  
CARBO CERAMICS, INC.  
36 ARCH DRIVE  
EUFAULA AL 36027

**RE: REVISED DRAFT PERMIT**  
**NPDES PERMIT NUMBER AL0082643**

Dear Mr. Girouard:

Transmitted herein is a revised draft of the referenced permit.

We would appreciate your comments on the permit within **30 days** of the date of this letter. Please direct any comments of a technical or administrative nature to the undersigned.

By copy of this letter and the draft permit, we are also requesting comments within the same time frame from EPA.

Our records indicate that you are currently utilizing the Department's web-based electronic environmental (E2) reporting system for submittal of discharge monitoring reports (DMRs). Your E2 DMRs will automatically update on the effective date of this permit, if issued.

The Alabama Department of Environmental Management encourages you to voluntarily consider pollution prevention practices and alternatives at your facility. Pollution Prevention may assist you in complying with effluent limitations, and possibly reduce or eliminate monitoring requirements.

If you have questions regarding this permit or monitoring requirements, please contact Scott Jackson by e-mail at [scott.jackson@adem.alabama.gov](mailto:scott.jackson@adem.alabama.gov) or by phone at (334) 394-4366.

Sincerely,

A handwritten signature in black ink, appearing to be "SR", written over a white scribble.

Scott Ramsey, Chief  
Industrial Section  
Industrial/Municipal Branch  
Water Division

Enclosure: Draft Permit

pc via website: Montgomery Field Office  
EPA Region IV  
U.S. Fish & Wildlife Service  
AL Historical Commission  
Advisory Council on Historic Preservation  
Department of Conservation and Natural Resources

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

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



**Mobile Branch**  
2204 Perimeter Road  
Mobile, AL 36615-1131  
(251) 450-3400  
(251) 479-2593 (FAX)

**Mobile-Coastal**  
3664 Dauphin Street, Suite B  
Mobile, AL 36608  
(251) 304-1176  
(251) 304-1189 (FAX)



# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: CARBO CERAMICS, INC.

FACILITY LOCATION: CARBO CERAMICS, INC. – EUFAULA PLANT  
36 ARCH DRIVE  
EUFAULA, AL 36027

PERMIT NUMBER: AL0082643

RECEIVING WATERS: DSN002: CHATTAHOOCHEE RIVER (WALTER F. GEORGE LAKE)  
DSN003 AND DSN004: UNNAMED TRIBUTARY TO BARBOUR CREEK

*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:

**Revised Draft**

**INDUSTRIAL SECTION  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT**

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## PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

## A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from the following point source(s) outfall(s), described more fully in the permittee's application:

DSN0021: Process wastewater resulting from ceramic bead manufacturing operations, process utility water, and kaolin grit runoff. 3/

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS 1/</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
Conductivity	-	-	-	REPORT umhos/cm	REPORT umhos/cm	Weekly	Grab	-
pH	-	-	6.0 S.U.	-	8.5 S.U.	Daily	Grab	-
Solids, Total Suspended	-	-	-	30.0 mg/l	45.0 mg/l	Weekly	Composite	-
Oil & Grease	-	-	-	-	15 mg/l	Monthly	Grab	-
Nitrogen, Ammonia Total (As N)	-	-	-	REPORT mg/l	REPORT mg/l	Weekly	Composite	-
Carbon, Tot Organic (TOC)	-	-	-	REPORT mg/l	REPORT mg/l	Weekly	Composite	-
Chloride (As Cl)	-	-	-	REPORT mg/l	REPORT mg/l	Weekly	Composite	-
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	-

**THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.**

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan 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 the following point source(s) outfall(s), described more fully in the permittee's application:

DSN0021 (continued): Process wastewater resulting from ceramic bead manufacturing operations, process utility water, and kaolin grit runoff. 3/

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS 1/</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
Solids, Total Dissolved	-	-	-	REPORT mg/l	REPORT mg/l	Weekly	Composite	-

**THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.**

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan 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 the following point source(s) outfall(s), described more fully in the permittee's application:

DSN002Q: Process wastewater resulting from ceramic bead manufacturing operations, process utility water, and kaolin grit runoff. 3/

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS 1/</u>			
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
Toxicity, Ceriodaphnia Acute	-	0 pass(0)/fail(1)	-	-	-	Quarterly	24-Hr Composite	-
Toxicity, Pimephales Acute	-	0 pass(0)/fail(1)	-	-	-	Quarterly	24-Hr Composite	-

**THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.**

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.C for Acute Toxicity Limitations and Biomonitoring 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 the following point source(s) outfall(s), described more fully in the permittee's application:

DSN003S and DSN004S: Stormwater run-off from ceramic bead manufacturing operations and petroleum storage and fueling areas. 3/

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS 1/</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
pH	-	-	REPORT S.U.	-	REPORT S.U.	Semi-Annually	Grab	-
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Oil & Grease	-	-	-	-	15 mg/l	Semi-Annually	Grab	-
Nitrogen, Ammonia Total (As N)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Carbon, Tot Organic (TOC)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Chloride (As Cl)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Toluene	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Benzene	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-

**THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.**

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan 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 the following point source(s) outfall(s), described more fully in the permittee's application:

DSN003S and DSN004S (continued): Stormwater run-off from ceramic bead manufacturing operations and petroleum storage and fueling areas. 3/

Such discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS 1/</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
Ethylbenzene	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Naphthalene	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Semi-Annually	Estimate 4/	-
Solids, Total Dissolved	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Xylene	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-

**THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.**

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.



**B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS**

1. Representative Sampling

Samples and measurements 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.

2. 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 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). 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 pollutants 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 A and B above 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.

3. 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;
- 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.

4. Records Retention and Production

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the 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 years from the date of the sample 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 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 or his designee, the permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records shall not be submitted unless requested.

All records required to be kept for a period of three years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

5. 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.

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

a. The permittee shall conduct the required monitoring in accordance with the following schedule:

**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.

**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 it should be submitted with the last DMR due for the quarter, i.e., (March, June, September and December DMR's).

**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 calendar semiannual 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 submitted with the last DMR for the month of the semiannual period, i.e. (June and December DMR's).

**ANNUAL MONITORING** shall be conducted at least once during the period of January through December. The permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be submitted with the December DMR.

b. The permittee shall submit discharge monitoring reports (DMRs) on the forms provided by the Department and in accordance with the following schedule:

**REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING** shall be submitted on a **monthly** basis. The first report is due on the **28th day of (MONTH, YEAR)**. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

**REPORTS OF QUARTERLY TESTING** shall be submitted on a **quarterly** basis. The first report is due on the **28th day of [Month, Year]**. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

**REPORTS OF SEMIANNUAL TESTING** shall be submitted on a semiannual basis. The reports are due on the 28th day of **JANUARY** and the 28th day of **JULY**. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

**REPORTS OF ANNUAL TESTING** shall be submitted on an annual basis. The first report is due on the 28th day of **JANUARY**. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

c. Except as allowed by Provision I.C.1.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports (DMRs) required by Provision I.C.1.b by utilizing the Department's web-based Electronic Environmental (E2) Reporting System.

(1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's E2 Reporting system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b, unless otherwise directed by the Department.

If the E2 Reporting System is down on the 28<sup>th</sup> day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee 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 5 calendar days of the E2 Reporting System resuming operation, the permittee shall enter the data into the E2 Reporting System, unless an alternate timeframe is approved by the Department. An attachment should be included with the E2 DMR submittal verifying the original submittal date (date of the fax, copy of the dated e-mail, or hand-delivery stamped date), if applicable.

- (2) 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 Provision I.C.1.e.

- (3) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.
- (4) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit 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 and the increased frequency shall be indicated on the DMR.
- (5) In the event no discharge from a point source identified in Provision I.A. 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.

- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible official" of the permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 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 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."*

- e. Discharge Monitoring Reports required by this permit, the AWPCA, and the Department's Rules that are being submitted in hard copy shall be addressed to:

**Alabama Department of Environmental Management  
Permits and Services Division  
Environmental Data Section  
Post Office Box 301463  
Montgomery, Alabama 36130-1463**

Certified and Registered Mail containing Discharge Monitoring Reports shall be addressed to:

**Alabama Department of Environmental Management  
Permits and Services Division  
Environmental Data Section  
1400 Coliseum Boulevard  
Montgomery, Alabama 36110-2400**

- f. All other correspondence and reports required to be submitted by this permit, the AWPCA, and the Department's Rules shall be addressed to:

**Alabama Department of Environmental Management**

Water Division  
Post Office Box 301463  
Montgomery, Alabama 36130-1463

Certified and Registered Mail shall be addressed to:

Alabama Department of Environmental Management  
Water Division  
1400 Coliseum Boulevard  
Montgomery, Alabama 36110-2400

- g. If this permit is a re-issuance, 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.C.1.b above.

2. Noncompliance Notification

a. 24-Hour Noncompliance Reporting

The permittee shall report to the Director, within 24-hours of becoming aware of the noncompliance, any noncompliance which may endanger health or the environment. This shall include but is not limited to the following circumstances:

- (1) does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I. A. of this permit which is denoted by an "(X)";
- (2) threatens human health or welfare, fish or aquatic life, or water quality standards;
- (3) does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);
- (4) contains a quantity of a hazardous substance which has been determined may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
- (5) exceeds any discharge limitation for an effluent characteristic as a result of an unanticipated bypass or upset; and
- (6) is an unpermitted direct or indirect discharge of a pollutant to a water of the state (unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision).

The permittee shall orally report the occurrence and circumstances 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 report, the permittee shall submit to the Director or Designee a written report as provided in Part I.C.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 to the Director or Designee a written report as provided in Part I.C.2.c below, such report shall be submitted with the next Discharge Monitoring Report required to be submitted by Part I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.

- c. Any written report required to be submitted to the Director or Designee by Part I.C.2 a. or b. shall be submitted using a Noncompliance Notification Form (ADEM Form 421) available on the Department's website (<http://adem.alabama.gov/DeptForms/Form421.pdf>) and include the following information:

- (1) A description of the discharge and cause of noncompliance;
- (2) The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
- (3) A description of the steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence.

**D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS**

1. Anticipated Noncompliance

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

2. Termination of Discharge

The permittee shall notify the Director, in writing, when all discharges from any point source(s) identified in Provision I. A. of this permit have permanently ceased. This notification shall serve as sufficient cause for instituting procedures for modification or termination of the permit.

3. Updating Information

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

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

4. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable time, any information which the Director or his designee may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit, in whole or in part, or to determine compliance with this permit.

5. Cooling Water and Boiler Water Additives

a. The permittee shall notify the Director in writing not later than thirty (30) days prior to instituting the use of any biocide corrosion inhibitor or chemical additive in a cooling or boiler system, not identified in the application for this permit, from which discharge is allowed by this permit. Notification is not required for additives that do not contain a heavy metal(s) as an active ingredient and that pass through a wastewater treatment system prior to discharge nor is notification 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 waterway into which the discharge will ultimately reach;
- (2) quantities to be used;
- (3) frequencies of use;
- (4) proposed discharge concentrations; and
- (6) EPA registration number, if applicable.

b. The use of a biocide or additive containing tributyl tin, tributyl tin oxide, zinc, chromium or related compounds in cooling or boiler system(s), from which a discharge regulated by this permit occurs, 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.

6. Permit Issued Based On Estimated Characteristics

- a. If this permit was issued based on estimates of the characteristics of a process discharge reported on an EPA NPDES Application Form 2D (EPA Form 3510-2D), the permittee shall complete and submit an EPA NPDES Application Form 2C (EPA Form 3510-2C) no later than two years after the date that discharge begins. Sampling required for completion of the Form 2C shall occur when a discharge(s) from the process(s) causing the new or increased discharge is occurring. If this permit was issued based on estimates concerning the composition of a stormwater discharge(s), the permittee shall perform the sampling required by EPA NPDES Application Form 2F (EPA Form 3510-2F) no later than one year after the industrial activity generating the stormwater discharge has been fully initiated.
- b. This permit shall be reopened if required to address any new information resulting from the completion and submittal of the Form 2C and or 2F.

**E. SCHEDULE OF COMPLIANCE**

1. The permittee shall achieve compliance with the discharge limitations specified in Provision I. A. in accordance with the following schedule:
  - a. **The Permittee shall submit to the Department a study prepared by an Alabama Registered Professional Engineer outlining as assessment of methods for decreasing Conductivity, Chloride, and Total Dissolved Solids (TDS) levels. The report shall consider predicated treatability levels, corrective actions plans, implementation schedules, and the cost-effectiveness of implementing Conductivity, Chloride, and TDS removal. The study shall be submitted to the Department no later than 180 days from the effective date of this permit issuance.**
  - b. **COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT**
2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

## PART II OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

### A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

#### 1. Facilities Operation and Maintenance

The permittee shall at all times properly 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 the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit.

#### 2. Best Management Practices

- a. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his designee has granted prior written authorization for dilution to meet water quality requirements.
- b. The permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.
- c. The permittee shall prepare, submit for approval and implement a Best Management Practices (BMP) Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

#### 3. Spill Prevention, Control, and Management

The permittee shall provide spill prevention, control, and/or management sufficient to prevent any spills of pollutants from entering a water of the state or a publicly or privately owned treatment works. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and which shall prevent the contamination of groundwater and such containment system shall be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided.

### B. OTHER RESPONSIBILITIES

#### 1. Duty to Mitigate Adverse Impacts

The permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation specified in Provision I. A. of this permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as necessary to determine the nature and impact of the noncomplying discharge.

#### 2. Right of Entry and Inspection

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

- a. enter upon the permittee's premises where a regulated facility or activity or point source 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 the permit;
- c. inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
- d. sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

### C. BYPASS AND UPSET

#### 1. Bypass

- a. Any bypass is prohibited except as provided in b. and c. below:
- b. A bypass is not prohibited if:
  - (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;

- (2) It enters the same receiving stream as the permitted outfall; and
  - (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.
- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision 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 adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment 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 prior to the anticipated bypass (if possible), the permittee is granted such authorization, and the permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
- d. The permittee has the burden of establishing that each of the conditions of Provision II.C.1.b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.

2. Upset

- a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:
- (1) No later than 24-hours after becoming aware of the occurrence of the upset, the permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and
  - (2) No later than five (5) days after becoming aware of the occurrence of the upset, the permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, 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 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 on human health or the environment resulting from the upset.
- b. The permittee has the burden of establishing that each of the conditions of Provision II. C.2.a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I.A. of this permit.

**D. DUTY TO COMPLY WITH PERMIT, RULES, AND STATUTES**

1. Duty to Comply

- a. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, for permit termination, revocation and reissuance, suspension, modification; or denial of a permit renewal application.
- b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a permittee in an enforcement action.
- c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.
- d. 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.
- e. Nothing in this permit shall be construed to preclude and 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.

2. Removed Substances

Solids, sludges, filter backwash, or any other pollutant or other waste removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department Rules.



3. Loss or Failure of Treatment Facilities

Upon the loss or failure of any treatment facilities, 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 Provision I. A. of this permit, or any other terms or conditions of this permit, cease, reduce, or otherwise control production and/or all discharges until treatment is restored. If control of discharge during loss or failure of the primary source of power is to be accomplished by means of alternate power sources, standby generators, or retention of inadequately treated effluent, the permittee must furnish to the Director within six months a certification that such control mechanisms have been installed.

4. Compliance with Statutes and Rules

- a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Blvd., Montgomery, AL 36130.
- 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.

**E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE**

1. 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 a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the permittee does not intend to continue discharge beyond the expiration of this permit, the permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-.09.
- b. Failure of the permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

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 or increase the quantity of a discharged pollutant such that existing permit limitations would be exceeded or that could result in an additional discharge point. This requirement applies to pollutants that are or 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.

3. 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 the 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.

4. Permit Modification and Revocation

a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:

- (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
- (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
- (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.

b. This permit may be modified during its term for cause, including but not limited to, the following:

- (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
- (2) There are 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;
- (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
- (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
- (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
- (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
- (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
- (8) To agree with a granted variance under 301(c), 301(g), 301(h), 301(k), or 316(a) of the FWPCA or for fundamentally different factors;
- (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
- (10) When required by the reopener conditions in this permit;
- (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);
- (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
- (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
- (14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.

5. Permit Termination

This permit may be terminated during its term for cause, including but not limited to, the following:

- a. Violation of any term or condition of this permit;
- b. The permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the permittee's misrepresentation of any relevant facts at any time;
- c. Materially false or inaccurate statements or information in the permit application or the permit;
- d. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
- e. The permittee's discharge threatens human life or welfare or the maintenance of water quality standards;
- f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;
- g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the permittee; or
- h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

6. Permit Suspension

This permit may be suspended during its term for noncompliance until the permittee has taken action(s) necessary to achieve compliance.

7. Request for Permit Action Does Not Stay Any Permit Requirement

The filing of a request by the permittee for modification, suspension or revocation of this permit, in whole or in part, does not stay any permit term or condition.

**F. COMPLIANCE WITH TOXIC POLLUTANT 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 Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a), for a toxic pollutant discharged by the permittee and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Provision I. A. of this permit, or controls a pollutant not limited in Provision I. A. of this permit, this permit shall be modified to conform to the toxic 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 pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the permittee shall attain compliance with the requirements of the standard or prohibition within the time period required by the standard or prohibition and shall continue to comply with the standard or prohibition until this permit is modified or reissued.

**G. DISCHARGE OF WASTEWATER GENERATED BY OTHERS**

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.

PART III OTHER PERMIT CONDITIONS

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 the permit shall, upon conviction, be subject to penalties as provided by the AWPCA.

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 as provided by the AWPCA.

3. Permit Enforcement

a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA and as such any terms, conditions, or limitations of the permit are enforceable under state and federal law.

b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes.

(1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;

(2) An action for damages;

(3) An action for injunctive relief; or

(4) An action for penalties.

c. If the permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the permittee has made a timely and complete application for reissuance of the permit:

(1) initiate enforcement action based upon the permit which has been continued;

(2) issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;

(3) reissue the new permit with appropriate conditions; or

(4) take other actions authorized by these rules and AWPCA.

4. Relief from Liability

Except as provided in Provision II.C.1 (Bypass) and Provision II.C.2 (Upset), nothing in this permit shall be construed to relieve the permittee of civil or criminal liability under the AWPCA 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 under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

C. 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. AVAILABILITY OF REPORTS**

Except for data determined to be confidential under Code of Alabama 1975, Section 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.

**E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES**

1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
3. Construction has begun when the owner or operator has:
  - a. begun, or caused to begin as part of a continuous on-site construction program:
    - (1) any placement, assembly, or installation of facilities or equipment; or
    - (2) 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
  - b. 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.

**F. COMPLIANCE WITH WATER QUALITY STANDARDS**

1. 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 should assure compliance with the applicable water quality standards.
2. Compliance with permit terms and conditions notwithstanding, if the permittee's discharge(s) from point sources identified in Provision I. A. of this permit cause or contribute to a condition in contravention of state water quality standards, the Department may require abatement action to be taken by the permittee in emergency situations or modify the permit pursuant to the Department's Rules, or both.
3. If the Department determines, on the basis of a notice provided pursuant to 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 discharge until the permit has been modified.

**G. GROUNDWATER**

Unless specifically authorized under this permit, this permit does not authorize the discharge of pollutants 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.

**H. DEFINITIONS**

1. 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).
2. Average weekly discharge limitation - means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week (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).
3. Arithmetic Mean – means the summation of the individual values of any set of values divided by the number of individual values.

4. AWPCA - means the Alabama Water Pollution Control Act.
5. BOD – means the five-day measure of the pollutant parameter biochemical oxygen demand.
6. Bypass - means the intentional diversion of waste streams from any portion of a treatment facility.
7. CBOD – means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. 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.
9. Daily maximum - means the highest value of any individual sample result obtained during a day.
10. Daily minimum - means the lowest value of any individual sample result obtained during a day.
11. Day - means any consecutive 24-hour period.
12. Department - means the Alabama Department of Environmental Management.
13. Director - means the Director of the Department.
14. Discharge - means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other wastes into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(8).
15. Discharge Monitoring Report (DMR) - means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
16. DO – means dissolved oxygen.
17. 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.
18. EPA - means the United States Environmental Protection Agency.
19. FC – means the pollutant parameter fecal coliform.
20. Flow – means the total volume of discharge in a 24-hour period.
21. FWPCA - means the Federal Water Pollution Control Act.
22. Geometric Mean – means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
23. 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.
24. Indirect Discharger – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
25. Industrial User – means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category “Division D – Manufacturing” and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
26. MGD – means million gallons per day.
27. Monthly Average – means, other than for fecal coliform bacteria, the arithmetic mean of the entire composite or grab samples taken for the daily discharges collected in one month period. The monthly average for fecal coliform 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.

28. New Discharger – means a person, owning or operating any building, structure, facility or installation:
  - a. from which there is or may be a discharge of pollutants;
  - b. that did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and
  - c. which has never received a final effective NPDES permit for dischargers at that site.
29. NH3-N – means the pollutant parameter ammonia, measured as nitrogen.
30. Permit application - means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
31. 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. Section 1362(14).
32. Pollutant - includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
33. Privately Owned Treatment Works – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
34. Publicly Owned Treatment Works – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
35. Receiving Stream – means the "waters" receiving a "discharge" from a "point source".
36. 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.
37. Significant Source – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
38. Solvent – means any virgin, used or spent organic solvent(s) identified in the F-Listed wastes (F001 through F005) specified in 40 CFR 261.31 that is used for the purpose of solubilizing other materials.
39. TKN – means the pollutant parameter Total Kjeldahl Nitrogen.
40. TON – means the pollutant parameter Total Organic Nitrogen.
41. TRC – means Total Residual Chlorine.
42. TSS – means the pollutant parameter Total Suspended Solids.
43. 24HC – means 24-hour composite sample, including any of the following:
  - a. the mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
  - b. a sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
  - c. a sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
44. 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 reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

45. 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, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
46. Week - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
47. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

#### **I. 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.



**PART IV      ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS**

**A.    BEST MANAGEMENT PRACTICES (BMP) PLAN REQUIREMENTS**

1.    **BMP Plan**

The permittee shall develop and implement a Best Management Practices (BMP) Plan which prevents, or minimizes the potential for, the release of pollutants from ancillary activities, including material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations, and sludge and waste disposal areas, to the waters of the State through plant site runoff; spillage or leaks; sludge or waste disposal; or drainage from raw material storage.

2.    **Plan Content**

The permittee shall prepare and implement a best management practices (BMP) plan, which shall:

- a.    Establish specific objectives for the control of pollutants:
  - (1) Each facility component or system shall be examined for its potential for causing a release of significant amounts of pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.
  - (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g. precipitation), or circumstances to result in significant amounts of pollutants reaching surface waters, the plan should include a prediction of the direction, rate of flow, and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
- b.    Establish specific best management practices to meet the objectives identified under paragraph a. of this section, addressing each component or system capable of causing a release of significant amounts of pollutants to the waters of the State, and identifying specific preventative or remedial measures to be implemented;
- c.    Establish a program to identify and repair leaking equipment items and damaged containment structures, which may contribute to contaminated stormwater runoff. This program must include regular visual inspections of equipment, containment structures and of the facility in general to ensure that the BMP is continually implemented and effective;
- d.    Prevent the spillage or loss of fluids, oil, grease, gasoline, etc. from vehicle and equipment maintenance activities and thereby prevent the contamination of stormwater from these substances;
- e.    Prevent or minimize stormwater contact with material stored on site;
- f.    Designate by position or name the person or persons responsible for the day to day implementation of the BMP;
- g.    Provide for routine inspections, on days during which the facility is manned, of any structures that function to prevent stormwater pollution or to remove pollutants from stormwater and of the facility in general to ensure that the BMP is continually implemented and effective;
- h.    Provide for the use and disposal of any material used to absorb spilled fluids that could contaminate stormwater;
- i.    Develop a solvent management plan, if solvents are used on site. The solvent management plan shall include as a minimum lists of the solvents on site; the disposal method of solvents used instead of dumping, such as reclamation, contract hauling; and the procedures for assuring that solvents do not routinely spill or leak into the stormwater;
- j.    Provide for the disposal of all used oils, hydraulic fluids, solvent degreasing material, etc. in accordance with good management practices and any applicable state or federal regulations;
- k.    Include a diagram of the facility showing the locations where stormwater exits the facility, the locations of any structure or other mechanisms intended to prevent pollution of stormwater or to remove pollutants from stormwater, the locations of any collection and handling systems;
- l.    Provide control sufficient to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with the water quality standard for turbidity applicable to the waterbody(s) receiving discharge(s) under this permit;
- m.    Provide spill prevention, control, and/or management sufficient to prevent or minimize contaminated stormwater runoff. 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. The containment system shall also be

capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided;

- n. Provide and maintain curbing, diking or other means of isolating process areas to the extent necessary to allow segregation and collection for treatment of contaminated stormwater from process areas;
- o. Be reviewed by plant engineering staff and the plant manager; and
- p. Bear the signature of the plant manager.

3. Compliance Schedule

The permittee shall have reviewed (and revised if necessary) and fully implemented the BMP plan as soon as practicable but no later than six months after the effective date of this permit.

4. Department Review

- a. When requested by the Director or his designee, the permittee shall make the BMP available for Department review.
- b. The Director or his designee may notify the permittee at any time that the BMP is deficient and require correction of the deficiency.
- c. The permittee shall correct any BMP deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.

5. Administrative Procedures

- a. A copy of the BMP shall be maintained at the facility and shall be available for inspection by representatives of the Department.
- b. A log of the routine inspection required above shall be maintained at the facility and shall be available for inspection by representatives of the Department. The log shall contain records of all inspections performed for the last three years and each entry shall be signed by the person performing the inspection.
- c. The permittee shall provide training for any personnel required to implement the BMP and shall retain documentation of such training at the facility. This documentation shall be available for inspection by representatives of the Department. Training shall be performed prior to the date that implementation of the BMP is required.
- d. BMP Plan Modification. The permittee shall amend the BMP plan whenever there is a change in the facility or change in operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.
- e. BMP Plan Review. The permittee shall complete a review and evaluation of the BMP plan at least once every three years from the date of preparation of the BMP plan. Documentation of the BMP Plan review and evaluation shall be signed and dated by the Plant Manager.

**B. STORMWATER FLOW MEASUREMENT AND SAMPLING REQUIREMENTS**

1. Stormwater Flow Measurement

- a. All stormwater samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches.
- b. The total volume of stormwater discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.
- c. The volume may be measured using flow measuring devices, or estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a stormwater outfall, and an estimate of the runoff coefficient of the drainage area. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.

2. Stormwater Sampling

- a. A grab sample, if required by this permit, shall be taken during the first thirty minutes of the discharge (or as soon thereafter as practicable); and a flow-weighted composite sample, if required by this permit, shall be taken for the entire event or for the first three hours of the event.
- b. All test procedures will be in accordance with part I.B. of this permit.

C. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS

1. The permittee shall perform 48-hour acute toxicity tests on the wastewater discharges required to be tested for acute toxicity by Part I of this permit.

a. Test Requirements, Screening Test

- (1) The samples shall be diluted, using an appropriate control water, to the Instream Waste Concentration (IWC) which is 16 % effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 1-day, 10-year flow period.
- (2) The samples shall be representative of the combined discharge flow from Eufaula WWTP (AL0061671) and Carbo Ceramics, Inc. (AL0082643). The samples may be taken after combination of the flows from each facility or prior to combination and flow-weighted based on the actual flow from each facility during the sampling period.
- (3) 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.
- (4) Noncompliance with the toxicity limit will be demonstrated if the  $LC_{50}$  (Lethal Concentration) for survivor is less than the IWC. The  $LC_{50}$  will be calculated using the appropriate statistical method as defined by the EPA toxicity manual.

b. General Test Requirements:

- (1) A 24-hour composite sample shall be obtained for use in 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.

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.

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.

c. Reporting Requirements:

- (1) The permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).
- (2) 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. In accordance with Section 2. of this part, an effluent toxicity report containing the information in Section 2. 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.

d. Additional Testing Requirements:

- (1) If acute toxicity is indicated (noncompliance with permit limit), the permittee shall perform four additional valid acute toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall be performed once per week and shall be performed during the first four calendar weeks following the date on which the permittee became aware of the permit noncompliance and the results of these tests shall be submitted no later than 28 days following the month in which the tests were performed.
- (2) After evaluation of the results of the follow-up 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/600R-92/081, EPA/833/B-99/022 and/or EPA/600/6-91/005F, etc.).

e. Test Methods:

- (1) 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*).

2. 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)
  - (a) Name of firm
  - (b) Telephone number
  - (c) 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)
- (3) Design flow of treatment facility at time of sampling

c. Source of Effluent and Dilution Water

- (1) Effluent samples
  - (a) Sampling point
  - (b) Sample collection dates and times (to include composite sample start and finish times)
  - (c) Sample collection method
  - (d) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
  - (e) Sample temperature when received at the laboratory
  - (f) Lapsed time from sample collection to delivery
  - (g) Lapsed time from sample collection to test initiation
- (2) Dilution Water Samples
  - (a) Source

- (b) Collection date(s) and time(s) (where applicable)
- (c) Pretreatment
- (d) Physical and chemical characteristics (pH, hardness, water temperature, alkalinity, specific conductance, 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

**1/ Adapted from "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms", Fifth Edition, October 2002 (EPA 821-R-02-012), Section 12, Report Preparation**

ADEM PERMIT RATIONALE

PREPARED DATE: September 16, 2020  
REVISION DATE: December 16, 2020  
PREPARED BY: Scott Jackson

Permittee Name: Carbo Ceramics, Inc.  
Facility Name: Carbo Ceramics, Inc. – Eufaula Plant  
Permit Number: AL0082643

PERMIT IS REISSUANCE DUE TO EXPIRATION

**DISCHARGE SERIAL NUMBERS & DESCRIPTIONS:**

DSN002: Process wastewater resulting from ceramic bead manufacturing operations, process utility water, and kaolin grit runoff.

DSN003: Stormwater run-off from ceramic bead manufacturing operations and petroleum storage and fueling areas

DSN004: Stormwater run-off from ceramic bead manufacturing operations and petroleum storage and fueling areas

**INDUSTRIAL CATEGORY:** 40 CFR 436 Subpart AG – Mineral Mining and Processing Point Source Category  
(Kaolin Subcategory)

**MAJOR:** N

**STREAM INFORMATION (DSN002):**

Receiving Stream: Chattahoochee River (Lake Eufaula/Walter F. George Lake)  
Classification: Swimming/Fish & Wildlife  
River Basin: Chattahoochee  
7Q10: 1834 cfs  
7Q2: 2587 cfs  
1Q10: 1106 cfs  
Annual Average Flow: 9619 cfs  
303(d) List: YES  
Impairment: Metals (Mercury) & Siltation  
TMDL: NO

**STREAM INFORMATION (DSN003 and DSN004):**

Receiving Stream: Unnamed Tributary to Barbour Creek (Lake Eufaula/Walter F. George Lake)  
Classification: Fish & Wildlife  
River Basin: Chattahoochee  
7Q10: 0.0 cfs  
303(d) List: YES  
Impairment: Metals (Mercury) & Siltation  
TMDL: NO

**DISCUSSION:**

The facility manufactures small ceramic beads which are used in a variety of industrial sectors. These beads are formed at the facility through a proprietary process that results in a high-salinity wastewater which cannot be further recycled without affecting product quality. This water makes up the majority of the wastewater discharge from the facility. Stormwater discharged from manufacturing operations at the facility and from petroleum storage and fueling areas is covered under General NPDES Permit Number ALG230028.

ADEM Administrative Rule 335-6-10-.12 requires applicants to new or expanded discharges to Tier II waters demonstrate that the proposed discharge is necessary for important economic or social development in the area in which the waters are located. The application submitted by the facility is not for a new or expanded discharge. Therefore, the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

Based on the facility's operations, the process is subject to 40 CFR 436 Subpart AG – Mineral Mining and Processing Point Source Category (Kaolin Subcategory); however, this subpart is reserved. Therefore, EPA has not promulgated specific guidelines for the discharges covered under the proposed permit. Proposed permit limits are based on Best Professional Judgment. The proposed frequencies are based on a review of site specific conditions and an evaluation of similar facilities.



0021: Process wastewater resulting from ceramic bead manufacturing operations, process utility water, and kaolin grit runoff.

<u>Parameter</u>	<u>Monthly Avg Loading</u>	<u>Daily Max Loading</u>	<u>Daily Min Concentration</u>	<u>Monthly Avg Concentration</u>	<u>Daily Max Concentration</u>	<u>Sample Frequency</u>	<u>Sample Type</u>	<u>Basis*</u>
Conductivity	-	-	-	REPORT umhos/cm	REPORT umhos/cm	Weekly	Grab	BPJ
pH	-	-	6.0 S.U.	-	8.5 S.U.	Daily	Grab	WQBEL
Solids, Total Suspended	-	-	-	30.0 mg/l	45.0 mg/l	Weekly	Composite	BPJ
Oil & Grease	-	-	-	-	15 mg/l	Monthly	Grab	BPJ
Nitrogen, Ammonia Total (As N)	-	-	-	REPORT mg/l	REPORT mg/l	Weekly	Composite	BPJ
Carbon, Tot Organic (TOC)	-	-	-	REPORT mg/l	REPORT mg/l	Weekly	Composite	BPJ
Chloride (As Cl)	-	-	-	REPORT mg/l	REPORT mg/l	Weekly	Composite	BPJ
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	BPJ
Solids, Total Dissolved	-	-	-	REPORT mg/l	REPORT mg/l	Weekly	Composite	BPJ

002Q: Process wastewater resulting from ceramic bead manufacturing operations, process utility water, and kaolin grit runoff.

<u>Parameter</u>	<u>Monthly Avg Loading</u>	<u>Daily Max Loading</u>	<u>Daily Min Concentration</u>	<u>Monthly Avg Concentration</u>	<u>Daily Max Concentration</u>	<u>Sample Frequency</u>	<u>Sample Type</u>	<u>Basis*</u>
Toxicity, Ceriodaphnia Acute	-	0 pass(0)/fail(1)	-	-	-	Quarterly	24-Hr Composite	BPJ
Toxicity, Pimephales Acute	-	0 pass(0)/fail(1)	-	-	-	Quarterly	24-Hr Composite	BPJ

003S and 004S: Stormwater run-off from ceramic bead manufacturing operations and petroleum storage and fueling areas

<u>Parameter</u>	<u>Monthly Avg Loading</u>	<u>Daily Max Loading</u>	<u>Daily Min Concentration</u>	<u>Monthly Avg Concentration</u>	<u>Daily Max Concentration</u>	<u>Sample Frequency</u>	<u>Sample Type</u>	<u>Basis*</u>
pH	-	-	REPORT S.U.	-	REPORT S.U.	Semi-Annually	Grab	BPJ
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Oil & Grease	-	-	-	-	15 mg/l	Semi-Annually	Grab	BPJ
Nitrogen, Ammonia Total (As N)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Carbon, Tot Organic (TOC)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Chloride (As Cl)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ

Toluene	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Benzene	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Ethylbenzene	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Naphthalene	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Semi-Annually	Estimate	BPJ
Solids, Total Dissolved	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Xylene	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ

**\*Basis for Permit Limitation**

- BPJ – Best Professional Judgment
- WQBEL – Water Quality Based Effluent Limits
- EGL – Federal Effluent Guideline Limitations
- 303(d) – 303(d) List of Impaired Waters
- TMDL – Total Maximum Daily Load Requirements

## Discussion

The facility samples all parameters except for toxicity testing at Outfall DSN0021 which is located at the end of the plant's water treatment system. The facility performs toxicity testing at Outfall DSN002S which is located after the comingling of the discharges from Carbo Ceramics Inc. and the Eufaula WWTP.

### Best Professional Judgment (BPJ)

The parameters of concern for this facility are based on the parameters of concern listed in EPA form 2F and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility. The parameters with specific limits are discussed below:

#### Oil & Grease

The daily maximum limit of 15 mg/l for Oil and Grease should prevent the occurrence of a visible sheen in the stream and has been shown to be achievable through the use of proper BMPs.

#### Total Suspended Solids (TSS)

The TSS limitations of 30 mg/l (monthly average) and 45 mg/l (daily maximum) are based on secondary treatment standards and will be continued in this permit issuance.

#### Total Organic Carbon (TOC) and Ammonia as Nitrogen

Based on previous discussions with the facility in the last permit issuance and the same monitoring variance requested by the facility in this permit application, TOC will continue to be monitored in lieu of Chemical Oxygen Demand (COD) because it is more representative of the constituents in the facility's discharge. TOC and Ammonia as Nitrogen are being monitored to measure the treatment effectiveness at the facility. The information gathered from the permittee's monitoring will be useful in evaluating the effluent's impact on the receiving stream and to determine future permit limitations, if necessary.

#### Conductivity, Chlorides, and Total Dissolved Solids (TDS)

The facility's discharge is high in salinity. These parameters are indicators of the presence of salinity in a freshwater environment. Based on historical DMR data submitted by the facility, higher than expected values for these parameters have been reported. The facility samples for these parameters at the end of their plant's water treatment system. The facility's discharge ultimately comingles with the Eufaula WWTP's discharge and the combined effluent is discharged into the Chattahoochee River. Due to the dilution of the facility's effluent with the city's before discharging into the receiving stream and no apparent impacts on the water quality of that section of the river as a result of this discharge, monitoring for these parameters will continue in this permit issuance without limitations. A minimization plan is being proposed for these parameters and is discussed below.

#### Biomonitoring Requirements

Due to the potential synergistic effects of the discharge, acute toxicity testing is required in this permit. In 2015, the Department's Water Quality section performed a CORMIX model (see attached) and determined an Instream Waste Concentration (IWC) of 16% effluent. As stated in Part IV.B of the permit, the samples should be representative of the combined discharge flow from Carbo Ceramics Inc. and the Eufaula WWTP. The samples for acute toxicity may be taken after combination of the flows from each facility or prior to combination and flow-weighted based on actual flow from each facility during the sampling period. Monitoring for acute toxicity is being proposed at a quarterly frequency in this permit issuance.

## Water Quality Based Effluent Limits (WQBEL)

### pH

ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(3)(c)2. & 335-6-10-.09(5)(e)2. – Specific Water Quality for Swimming/Fish & Wildlife classified streams states: "Sewage, industrial waste or other wastes shall not cause the pH to deviate more than one unit from then normal or natural pH, nor be less than 6.0, nor greater than 8.5 standard units." The pH limitations of 6.0 S.U. (daily minimum) and 8.5 S.U. (daily maximum) will be continued in this permit at a daily monitoring frequency.

### **Reasonable Potential Analysis**

For the previous permit issuance, the Department completed a reasonable potential analysis (RPA) of the facility's discharge based on laboratory data provided in the Permittee's application. The RPA indicates whether pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standards. According to the Permittee's reissuance application submitted to the Department, the facility has indicated that there are no parameters expected in the discharge that would contribute to this potential.

### **303(d) List Impairments**

The facility discharges to the Lake Eufaula/Walter F. George Lake portion of the Chattahoochee River. This section of the River is listed on the 303(d) List as being impaired for metals (Mercury) due to atmospheric deposition. Immediately south of the facility's discharge location, Barbour Creek flows into the Chattahoochee River. Barbour Creek is listed on the 303(d) List as being impaired for metals (Mercury) due to atmospheric deposition and for siltation from agricultural sources. The facility is not expected to contribute to any of the impairments mentioned above, and therefore, there will be no related monitoring requirements for them.

### **Conductivity, Chloride, and Total Dissolved Solids (TDS) Minimization Plan**

The Permittee is required to submit to the Department a study, as outlined in Part I.E.1.a. of the permit, that is prepared by an Alabama Registered Professional Engineer outlining an assessment of methods for decreasing Conductivity, Chloride, and TDS levels. The report shall consider predicted treatability levels, corrective action plans, implementation schedules, and the cost-effectiveness of implementing Conductivity, Chloride, and TDS removal. The study shall be submitted to the Department no later than 180 days from the effective date of this permit issuance.

Best Management Practices (BMPs) are believed to be the most effective way to control the contamination of stormwater from areas of industrial activities. This facility is required to maintain a BMP plan. The requirements of the BMP plan call for minimization of stormwater contact with waste materials, products and by-products, and for prevention of spills or loss of fluids from equipment maintenance activities. The effectiveness of the BMPs will be measured through the monitoring of the pollutants of concern.

### **December 16, 2020 Revision**

The facility submitted a revised application including an updated EPA form 1 and EPA form 2F. In the previous discussion, it was stated that the stormwater discharged from manufacturing operations at the facility and from petroleum storage and fueling areas is covered under General NPDES Permit Number ALG230028. The facility has submitted this revised application to combine the two permits. The stormwater run-off from the ceramic bead manufacturing operations onsite and the petroleum storage and fueling areas will be covered under this permit, AL0082643.

There will be two stormwater outfalls added, DSN003 and DSN004. The parameters of concern for these outfalls are based on a combination of parameters found in EPA form 2F, currently permitted under Outfall DSN002 (ceramic bead manufacturing), and from the stone, glass, and clay General NPDES Permit ALG230028. Stormwater monitoring is proposed at a semi-annual frequency.

### **303(d) List Impairments**

The stormwater discharges from the facility go to an Unnamed Tributary to Barbour Creek and ultimately to the Lake Eufaula/Walter F. George Lake portion of the Chattahoochee River. Barbour Creek is listed on the 303(d) List as being impaired for metals (Mercury) due to atmospheric deposition and for siltation from agricultural sources. The facility is not expected to contribute to either of these impairments, and there will be no related monitoring requirements for them.

### **Permit Additions**

Discharge limitations and monitoring requirements for Outfalls DSN003 and DSN004 have been added to Part I.A of the permit (Pages 3 and 4). As a result, footnote 4/ has been added to these pages that references stormwater measurement and sampling requirements. This section has been added to the permit and is found under Permit Condition Part IV.B (Page 23). The effluent toxicity limitations and biomonitoring requirements have been updated to Permit Condition Part IV.C (Page 24) and the corresponding footnote in Part I.A for Outfall DSN002 now

references Part IV.C instead of IV.B. Additionally, Permit Conditions Part IV.C.1.a.(2) and (4) have been added to the permit. These two paragraphs were erroneously left out of the draft permit and should have been continued over from the current permit.

Close Form

# Mixing Zone Analysis Summary

Open FILE by permit number

### Comments included

Yes  No

### General Information

Request Number 3194

Page 1

Year File Was Started 2015

Information Verified By TCG

Date of MZ Response 3/20/2015

Name of Receiving Stream Chattahoochee River (Lake Eufaula)

Previous stream name: Or-AKA (If applicable)

Facility Name Carbo Ceramics Inc.

Previous Name of Discharger Or-AKA (If applicable)

Other Point Sources?  Yes  No

12 Digit HUC Code 031300031303

River Basin Chattahoochee

County Barbour

Use Classification S / F&W

Discharge Latitude 31.853600

Discharge Longitude -85.139999

Site Visit Completed?  Yes  No

Date of Site Visit

### Sources Included in the Model:

Eufaula WWTP

### Permit Information

#### Type of Discharger

- Municipal
- Industrial
- Semipublic/Private

Permit Number AL0082643

Permit Status Proposed

### Hydrology

Drainage Area 6725 sq mi

Stream 7Q10 1834 cfs

Stream 1Q10 1106 cfs

Stream 7Q2 2587 cfs

Annual Average 9619 cfs

Date of MZ Analysis 2/26/2015

Discharge Design Flow 3.924 MGD

### Method Used to Calculate

ADEM Estimate w/USGS Gage Data

ADEM Estimate w/USGS Gage Data

ADEM Estimate w/USGS Gage Data

Model Completed by Taylor Griswell

Seasonal?  Yes  No

If not seasonal, only the summer sections will be used

### Pollutant Category

Whole Effluent Toxicity (WET)  Thermal  Pathogens

# Mixing Zone Analysis Summary - Page 2

## WET Parameters

### Summer

**Acute**

Ambient Streamflow	1106	cfs
ZID Length	4.5	Meters
ZID IWC	16	%

**Chronic**

Ambient Streamflow		cfs
Mixing Zone Length		Meters
Mixing Zone IWC		%

### Winter

**Acute**

Ambient Streamflow	1106	cfs
ZID Length	4.5	Meters
ZID IWC	16	%

**Chronic**

Ambient Streamflow		cfs
Mixing Zone Length		Meters
Mixing Zone IWC		%

## Thermal Parameters

### Summer

Ambient Streamflow		cfs
Mixing Zone Length		Meters
Max. Effluent Temp		°C

### Winter

Ambient Streamflow		cfs
Mixing Zone Length		Meters
Max. Effluent Temp		°C

## Pathogen Parameters

### Summer

Ambient Streamflow		cfs
ZID Length		Meters
Max. Effluent Fecal Conc		Cols/100 mls
Max. Effluent E. coli Conc		Cols/100 mls
Monthly Average Effluent E. coli Conc		Cols/100 mls
Max. Effluent Enterococci Conc (for coastal waters)		Cols/100 mls

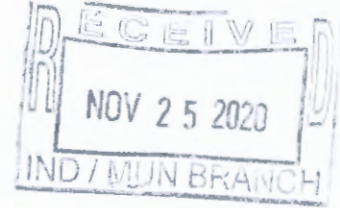
### Winter

Ambient Streamflow		cfs
ZID Length		Meters
Max. Effluent Fecal Conc		Cols/100 mls
Max. Effluent E. coli Conc		Cols/100 mls
Monthly Average Effluent E. coli Conc		Cols/100 mls
Max. Effluent Enterococci Conc (for coastal waters)		Cols/100 mls

**Comments and/or Notations**

Three different ambient density scenarios had to be run. A uniform density scenario, linear density scenario, and a two layer density scenario. Various observed data was run through each scenario to find which yielded the "worst case". The uniform density scenario yielded the "worst case" IWC.

Typically, the IWC would be ratioed out between the facilities, but Eufaula WWTP currently has a permitted IWC of 16%, and the two facilities will have compliance points before the effluents merge. Therefore, Eufaula WWTP should keep their permitted IWC of 16%, and Carbo Ceramics should also receive an IWC of 16%. It should be noted that the CORMIX model was run only taking into consideration the flow of Carbo Ceramics, and this model resulted in an IWC of 16% further confirming both facilities should receive an IWC of 16%.



24 November 2020

Scott Jackson  
Alabama Department of Environmental Management  
Water Division – NPDES Permit Branch  
1400 Coliseum Boulevard  
Montgomery, AL 36110-2400

**Subject: CARBO Ceramics Inc. – Eufaula Plant  
Revision of NPDES Permit No. AL0082643**

CARBO Ceramics Inc. (CARBO) is submitting the attached NPDES permit revision information package for Permit No. AL0082643, regarding discharge of treated effluent and stormwater at the CARBO – Eufaula Plant, to the Alabama Department of Environmental Management (ADEM).

Enclosed please find a copy of the following items:

1. US Environmental Protection Agency (USEPA) Form 1
2. USEPA Form 2F
3. ADEM Form 554
4. ADEM Form 187
5. Site Location Map
6. Site Layout Diagram
7. Wastewater Treatment System Process Flow Diagram

If you have any questions or require additional information, please contact me at 334-688-3508 or at [David.Girouard@carboceramics.com](mailto:David.Girouard@carboceramics.com).


Sincerely,

**David Girouard**  
Plant Manager – CARBO Eufaula

cc: Joel Howard



EPA Identification Number 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.	Form Approved 03/05/19 OMB No. 2040-0004
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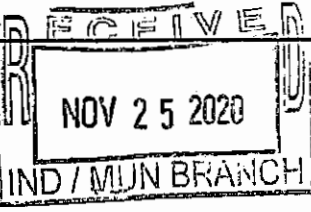
Form 1 NPDES		U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater <b>GENERAL INFORMATION</b>
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**SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))**

Activities Requiring an NPDES Permit	<b>1.1 Applicants Not Required to Submit Form 1</b>		
	1.1.1	<p>Is the facility a new or existing publicly owned treatment works? If yes, STOP. Do NOT complete Form 1. Complete Form 2A. <input checked="" type="checkbox"/> No</p>	<p>1.1.2 Is the facility a new or existing treatment works treating domestic sewage? If yes, STOP. Do NOT complete Form 1. Complete Form 2S. <input checked="" type="checkbox"/> No</p>
	<b>1.2 Applicants Required to Submit Form 1</b>		
	1.2.1	<p>Is the facility a concentrated animal feeding operation or a concentrated aquatic animal production facility? <input type="checkbox"/> Yes → Complete Form 1 and Form 2B. <input checked="" type="checkbox"/> No</p>	<p>1.2.2 Is the facility an existing manufacturing, commercial, mining, or silvicultural facility that is currently discharging process wastewater? <input checked="" type="checkbox"/> Yes → Complete Form 1 and Form 2C. <input type="checkbox"/> No</p>
	1.2.3	<p>Is the facility a new manufacturing, commercial, mining, or silvicultural facility that has not yet commenced to discharge? <input type="checkbox"/> Yes → Complete Form 1 and Form 2D. <input checked="" type="checkbox"/> No</p>	<p>1.2.4 Is the facility a new or existing manufacturing, commercial, mining, or silvicultural facility that discharges only nonprocess wastewater? <input type="checkbox"/> Yes → Complete Form 1 and Form 2E. <input checked="" type="checkbox"/> No</p>
	1.2.5	<p>Is the facility a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity or whose discharge is composed of both stormwater and non-stormwater? <input type="checkbox"/> Yes → Complete Form 1 and Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). <input checked="" type="checkbox"/> No</p>	

**SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))**

Name, Mailing Address, and Location	<b>2.1 Facility Name</b>		
	CARBO Ceramics Inc.		
	<b>2.2 EPA Identification Number</b>		
	110000790047		
	<b>2.3 Facility Contact</b>		
Name (first and last) Joel Howard		Title HSE Manager	Phone number (281) 921-6684
Email address joel.howard@carboceramics.com			
<b>2.4 Facility Mailing Address</b>			
Street or P.O. box 36 Arch Drive			
City or town Eufaula	State Al	ZIP code 36027	

  
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EPA Identification Number 110000790047		NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.	Form Approved 03/05/19 OMB No. 2040-0004
Name, Mailing Address, and Location Continued	2.5	<b>Facility Location</b>		
		Street, route number, or other specific identifier 36 Arch Drive		
		County name Barbour	County code (if known)	
		City or town Eufaula	State AL	ZIP code 36027
<b>SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))</b>				
SIC and NAICS Codes	3.1	<b>SIC Code(s)</b>	<b>Description (optional)</b>	
		3299	Non-metallic Mineral Products Not Elsewhere Classified	
	3.2	<b>NAICS Code(s)</b>	<b>Description (optional)</b>	
		327999	All Other Misc. Non-metallic Mineral Product Manufacturing	
<b>SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))</b>				
Operator Information	4.1	<b>Name of Operator</b>		
		CARBO Ceramics Inc.		
	4.2	Is the name you listed in Item 4.1 also the owner? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
	4.3	<b>Operator Status</b> <input type="checkbox"/> Public—federal <input type="checkbox"/> Public—state <input type="checkbox"/> Other public (specify) _____ <input checked="" type="checkbox"/> Private <input type="checkbox"/> Other (specify) _____		
	4.4	<b>Phone Number of Operator</b> (281) 921-6684		
Operator Information Continued	4.5	<b>Operator Address</b>		
		Street or P.O. Box 5050 Westway Park Boulevard, Suite 150		
		City or town Houston	State TX	ZIP code 77041
		Email address of operator joel.howard@carboceramics.com		
<b>SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))</b>				
Indian Land	5.1	Is the facility located on Indian Land? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

EPA Identification Number 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.	Form Approved 03/05/19 OMB No. 2040-0004
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**SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))**

Existing Environmental Permits	6.1	<b>Existing Environmental Permits (check all that apply and print or type the corresponding permit number for each)</b>		
		<input checked="" type="checkbox"/> NPDES (discharges to surface water) ALG230028	<input type="checkbox"/> RCRA (hazardous wastes)	<input type="checkbox"/> UIC (underground injection of fluids)
		<input checked="" type="checkbox"/> PSD (air emissions) 601-0003	<input type="checkbox"/> Nonattainment program (CAA)	<input checked="" type="checkbox"/> NESHAPs (CAA) 601-0003
	<input type="checkbox"/> Ocean dumping (MPRSA)	<input type="checkbox"/> Dredge or fill (CWA Section 404)	<input type="checkbox"/> Other (specify)	

**SECTION 7. MAP (40 CFR 122.21(f)(7))**

Map	7.1	Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> CAFO—Not Applicable (See requirements in Form 2B.)
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**SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))**

Nature of Business	8.1	Describe the nature of your business. The CARBO Ceramics Inc. Eufaula Facility manufactures small ceramic beads used in a variety of industrial sectors. These beads are formed at the facility through a proprietary process that results in a high-salinity wastewater which cannot be further recycled without affecting product quality. This water makes up the majority of the wastewater discharge from the facility.
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**SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))**

Cooling Water Intake Structures	9.1	Does your facility use cooling water? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 10.1.
	9.2	Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.) There are no surface water intakes. All water supplied to the facility comes from the City of Eufaula water supply.

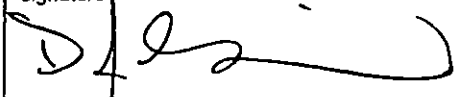
**SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))**

Variance Requests	10.1	Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(m)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)
		<input type="checkbox"/> Fundamentally different factors (CWA Section 301(n)) <input type="checkbox"/> Water quality related effluent limitations (CWA Section 302(b)(2)) <input type="checkbox"/> Non-conventional pollutants (CWA Section 301(c) and (g)) <input type="checkbox"/> Thermal discharges (CWA Section 316(a)) <input checked="" type="checkbox"/> Not applicable

EPA Identification Number 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.
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Form Approved 03/05/19  
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**SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))**

Checklist and Certification Statement	11.1	In Column 1 below, mark the sections of Form 1 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 provide attachments.	
		Column 1	Column 2
	<input checked="" type="checkbox"/>	Section 1: Activities Requiring an NPDES Permit	<input checked="" type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 2: Name, Mailing Address, and Location	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 3: SIC Codes	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 4: Operator Information	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 5: Indian Land	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 6: Existing Environmental Permits	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 7: Map	<input checked="" type="checkbox"/> w/ topographic map <input type="checkbox"/> w/ additional attachments
	<input checked="" type="checkbox"/>	Section 8: Nature of Business	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 9: Cooling Water Intake Structures	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 10: Variance Requests	<input type="checkbox"/> w/ attachments
<input checked="" type="checkbox"/>	Section 11: Checklist and Certification Statement	<input type="checkbox"/> w/ attachments	
	11.2	<b>Certification Statement</b> <i>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>	
		Name (print or type first and last name) David Girouard	Official title Plant Manager
		Signature 	Date signed 24 Nov 2020

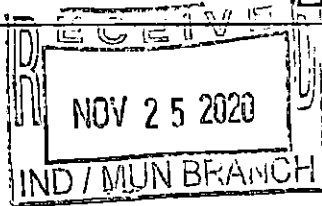
Form 2F NPDES		<b>U.S Environmental Protection Agency</b> <b>Application for NPDES Permit to Discharge Wastewater</b> <b>STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY</b>
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**SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))**

<b>Outfall Location</b>	1.1	Provide information on each of the facility's outfalls in the table below			
		Outfall Number	Receiving Water Name	Latitude	Longitude
		003	Lake Eufaula	31° 52' 50"	85° 10' 01"
		004	Lake Eufaula	31° 52' 20"	85° 10' 01"
				° ' "	° ' "
				° ' "	° ' "
				° ' "	° ' "

**SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))**

<b>Improvements</b>	2.1	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?			
		<input type="checkbox"/> Yes <span style="margin-left: 200px;"><input checked="" type="checkbox"/> No → SKIP to Section 3.</span>			
	2.2	Briefly identify each applicable project in the table below.			
		Brief Identification and Description of Project	Affected Outfalls (list outfall numbers)	Source(s) of Discharge	Final Compliance Dates
					Required    Projected
	2.3	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)			
		<input type="checkbox"/> Yes <span style="margin-left: 200px;"><input type="checkbox"/> No</span>			



EPA Identification Number  
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NPDES Permit Number  
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Facility Name  
CARBO Ceramics Inc. –  
Eufaula Plant

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**SECTION 3. SITE DRAINAGE MAP (40 CFR 122.26(c)(1)(i)(A))**

Site Drainage Map	3.1	Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**SECTION 4. POLLUTANT SOURCES (40 CFR 122.26(c)(1)(i)(B))**

Pollutant Sources	4.1	Provide information on the facility's pollutant sources in the table below.			
		<b>Outfall Number</b>	<b>Impervious Surface Area (within a mile radius of the facility)</b>		<b>Total Surface Area Drained (within a mile radius of the facility)</b>
		003	0.79	specify units Acres	20.77 specify units
		004	0.55	specify units Acres	20.77 specify units
				specify units	specify units
				specify units	specify units
				specify units	specify units
				specify units	specify units
				specify units	specify units
				specify units	specify units
	4.2	Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.) The CARBO Ceramics Inc. Eufaula Facility manufactures small ceramic beads used in a variety of industrial sectors. These beads are formed at the facility through a proprietary process that results in a high-salinity wastewater which cannot be further recycled without affecting product quality. This water makes up the majority of the wastewater discharge from the facility.			
	4.3	Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)			
		<b>Stormwater Treatment</b>			
		<b>Outfall Number</b>	<b>Control Measures and Treatment</b>		<b>Codes from Exhibit 2F-1 (list)</b>
		003	Stormwater settling ponds and biofiltration area		3-G
		004	NA		

EPA Identification Number  
110000790047

NPDES Permit Number  
AL0082643

Facility Name  
CARBO Ceramics Inc. --  
Eufaula Plant

Form Approved 03/05/19  
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**SECTION 5. NON STORMWATER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))**

Non-Stormwater Discharges	5.1	I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges. Moreover, I certify that the outfalls identified as having non-stormwater discharges are described in either an accompanying NPDES Form 2C, 2D, or 2E application.			
		Name (print or type first and last name)	Official title		
		David Girouard	Plant Manager		
		Signature	Date signed		
			11/24/2020		
	5.2	Provide the testing information requested in the table below.			
		Outfall Number	Description of Testing Method Used	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test

**SECTION 6. SIGNIFICANT LEAKS OR SPILLS (40 CFR 122.26(c)(1)(i)(D))**

Significant Leaks or Spills	6.1	Describe any significant leaks or spills of toxic or hazardous pollutants in the last three years. NA
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**SECTION 7. DISCHARGE INFORMATION (40 CFR 122.26(c)(1)(i)(E))**

Discharge Information	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.	
	7.1	Is this a new source or new discharge? <input type="checkbox"/> Yes → See instructions regarding submission of <i>estimated</i> data. <input checked="" type="checkbox"/> No → See instructions regarding submission of <i>actual</i> data.
	7.2	Have you completed Table A for each outfall? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

EPA Identification Number 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc. – Eufaula Plant	Form Approved 03/05/19 OMB No. 2040-0004
Discharge Information Continued	7.3	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.5.	
	7.4	Have you completed Table B by providing quantitative data for those pollutants that are (1) limited either directly or indirectly in an ELG and/or (2) subject to effluent limitations in an NPDES permit for the facility's process wastewater? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	7.5	Do you know or have reason to believe any pollutants in Exhibit 2F-2 are present in the discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.7.	
	7.6	Have you listed all pollutants in Exhibit 2F-2 that you know or have reason to believe are present in the discharge and provided quantitative data or an explanation for those pollutants in Table C? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.7	Do you qualify for a small business exemption under the criteria specified in the Instructions? <input type="checkbox"/> Yes → SKIP to Item 7.18. <input checked="" type="checkbox"/> No	
	7.8	Do you know or have reason to believe any pollutants in Exhibit 2F-3 are present in the discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.10.	
	7.9	Have you listed all pollutants in Exhibit 2F-3 that you know or have reason to believe are present in the discharge in Table C? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.10	Do you expect any of the pollutants in Exhibit 2F-3 to be discharged in concentrations of 10 ppb or greater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.12.	
	7.11	Have you provided quantitative data in Table C for those pollutants in Exhibit 2F-3 that you expect to be discharged in concentrations of 10 ppb or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.12	Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.14.	
	7.13	Have you provided quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.14	Have you provided quantitative data or an explanation in Table C for pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the pollutants identified in Item 7.12)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	7.15	Do you know or have reason to believe any pollutants in Exhibit 2F-4 are present in the discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.17.	
	7.16	Have you listed pollutants in Exhibit 2F-4 that you know or believe to be present in the discharge and provided an explanation in Table C? <input type="checkbox"/> Yes <input type="checkbox"/> No	
7.17	Have you provided information for the storm event(s) sampled in Table D? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		



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Discharge Information Continued	<b>Used or Manufactured Toxics</b>		
	7.18	Is any pollutant listed on Exhibits 2F--2 through 2F--4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct?	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 8.	
	7.19	List the pollutants below, including TCDD if applicable.	
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

**SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))**

Biological Toxicity Testing Data	8.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years?		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 9. <span style="float: right;">11/24/2020</span>		
	8.2	Identify the tests and their purposes below.		
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	

**SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))**

Contract Analysis Information	9.1	Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm?		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 10.		
	9.2	Provide information for each contract laboratory or consulting firm below.		
			Laboratory Number 1	Laboratory Number 2
		Name of laboratory/firm	Environmental Resource Analysts	
		Laboratory address		
	Phone number	(334) 502-3444		
	Pollutant(s) analyzed			

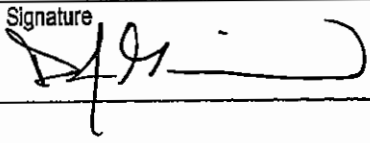
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**SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))**

Checklist and Certification Statement	10.1	In Column 1 below, mark the sections of Form 2F 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
	<input checked="" type="checkbox"/>	Section 1	<input type="checkbox"/> w/ attachments (e.g., responses for additional outfalls)
	<input checked="" type="checkbox"/>	Section 2	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 3	<input type="checkbox"/> w/ site drainage map
	<input checked="" type="checkbox"/>	Section 4	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 5	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 6	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 7	<input type="checkbox"/> Table A <input type="checkbox"/> w/ small business exemption request <input type="checkbox"/> Table B <input type="checkbox"/> w/ analytical results as an attachment <input type="checkbox"/> Table C <input type="checkbox"/> Table D
	<input checked="" type="checkbox"/>	Section 8	<input type="checkbox"/> w/attachments
	<input checked="" type="checkbox"/>	Section 9	<input type="checkbox"/> w/attachments (e.g., responses for additional contact laboratories or firms)
<input checked="" type="checkbox"/>	Section 10	<input type="checkbox"/>	
10.2	<b>Certification Statement</b> <i>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>		
	Name (print or type first and last name) David Girouard	Official title Plant Manager	
	Signature 	Date signed 11/24/2020	

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Facility Name  
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Plant

Outfall Number  
003

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**TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))<sup>1</sup>**

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	<4.56 mg/l		<4.56 mg/l		1	
2. Biochemical oxygen demand (BOD <sub>5</sub> )	NA		NA			
3. Chemical oxygen demand (COD)	NA		NA			
4. Total suspended solids (TSS)	877 mg/l		877 mg/l		1	
5. Total phosphorus	NA		NA			
6. Total Kjeldahl nitrogen (TKN)	NA		NA			
7. Total nitrogen (as N)	NA		NA			
8. pH (minimum)	6.29		6.29		1	
	6.29		6.29		1	

<sup>1</sup> 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 A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))<sup>1</sup>**

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	<4.56 mg/l		<4.56 mg/l		1	
2. Biochemical oxygen demand (BOD <sub>5</sub> )	NA		NA			
3. Chemical oxygen demand (COD)	NA		NA			
4. Total suspended solids (TSS)	137 mg/l		137 mg/l		1	
5. Total phosphorus	NA		NA			
6. Total Kjeldahl nitrogen (TKN)	NA		NA			
7. Total nitrogen (as N)	NA		NA			
8. pH (minimum)	6.26		6.26		1	
	6.26		6.26		1	

<sup>1</sup> 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 B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122:26(c)(1)(i)(E)(4) and 40 CFR 122:21(g)(7)(vi)(A))<sup>1</sup>**

List each pollutant that is limited in an effluent limitation guideline (ELG) that the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge <small>(specify units)</small>		Average Daily Discharge <small>(specify units)</small>		Number of Storm Events Sampled	Source of Information <small>(new source/new dischargers only; use codes in instructions)</small>
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		

<sup>1</sup> 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 C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))<sup>1</sup>**

List each pollutant shown in Exhibits 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		

<sup>1</sup> 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 110000790047	NPDES Permit Number AL00B2643	Facility name CARBO Ceramics Inc. – Eufaula Plant	Outfall Number 004
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**TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))**

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

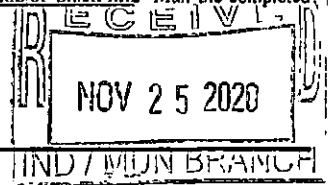
Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
03/04/2020	15	5.44 in	Unknown	Unknown	Unknown

Provide a description of the method of flow measurement or estimate.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)  
NPDES INDIVIDUAL PERMIT APPLICATION  
SUPPLEMENTARY INFORMATION FOR INDUSTRIAL FACILITIES

Instructions: This form should be used to submit the required supplementary information for an application for an NPDES individual permit for industrial facilities. The completed application should be submitted to ADEM in duplicate. If insufficient space is available to address any item, please continue on an attached sheet of paper. Please mark "N/A" in the appropriate box when an item is not applicable to the applicant. Please type or print legibly in blue or black ink. Mail the completed application to:

ADEM-Water Division  
Industrial Section  
P O Box 301463  
Montgomery, AL 36130-1463



PURPOSE OF THIS APPLICATION

- Initial Permit Application for New Facility\*       Initial Permit Application for Existing Facility\*  
 Modification of Existing Permit                       Reissuance of Existing Permit  
 Revocation & Reissuance of Existing Permit      \* An application for participation in the ADEM's Electronic Environmental (E2) Reporting must be submitted to allow permittees to electronically submit reports as required.

SECTION A – GENERAL INFORMATION

1. Facility Name: CARBO Ceramics Inc. – Eufaula Plant
2. NPDES Permit Number: AL0082643 (not applicable if initial permit application)
3. SID Permit Number (if applicable): IU
4. NPDES General Permit Number (if applicable): ALG230028
5. Facility Location (Front Gate): Latitude: N. Latitude 31.877750 Longitude: W. Longitude 85.160180
7. Responsible Official (as described on the last page of this application):  
Name: David Grouard Title: Plant Manager  
Address: 36 Arch Drive  
City: Eufaula State: AL Zip: 36027  
Phone Number: 334-688-3508 Email Address: David.Grouard@carboceramics.com
8. Designated Discharge Monitoring Report (DMR) Contact:  
Name: Trevor Dowling Title: Quality Manager  
Phone Number: 334-688-3520 Email Address: Trevor.Dowling@carboceramics.com
9. Type of Business Entity:  
 Corporation     General Partnership     Limited Partnership     Limited Liability Company     Sole Proprietorship  
 Other (Please Specify) \_\_\_\_\_
10. Complete this section if the Applicant's business entity is a Corporation
- a) Location of Incorporation:  
Address: 36 Arch Drive  
City: Eufaula County: Barbour State: AL Zip: 36027
- b) Parent Corporation of Applicant:  
Name: CARBO Ceramics  
Address: 5050 Westway Park Boulevard, Suite 150  
City: Houston State: TX Zip: 77041

c) Subsidiary Corporation(s) of Applicant:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

d) Corporate Officers:

Name: Shannon Nelson, VP of Manufacturing and Distribution

Address: 5050 Westway Park Boulevard, Suite 150

City: Houston State: TX Zip: 77041

Name: Joel Howard, HSE Manager

Address: 5050 Westway Park Boulevard, Suite 150

City: Houston State: TX Zip: 77041

e) Agent designated by the corporation for purposes of service:

Name: NA

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

11. If the Applicant's business entity is a Partnership, please list the general partners.

Name: NA Name: NA

Address: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

12. If the Applicant's business entity is a Proprietorship, please enter the proprietor's information.

Name: NA

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

15. Identify all Administrative Complaints, Notices of Violation, Directives, Administrative Orders, or Litigation concerning water pollution, if any, against the Applicant, its parent corporation or subsidiary corporations within the State of Alabama within the past five years (attach additional sheets if necessary):

<u>Facility Name</u>	<u>Permit Number</u>	<u>Type of Action</u>	<u>Date of Action</u>
<u>NA</u>	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**SECTION B – BUSINESS ACTIVITY**

If your facility conducts or will be conducting any of the processes listed below (regardless of whether they generate wastewater, waste sludge, or hazardous waste), place a check beside the category of business activity (check all that apply):

**Industrial Categories**

- |   |  |
|---|--|
| <input type="checkbox"/> Aluminum Forming                                 | <input type="checkbox"/> Metal Molding and Casting   |
| <input type="checkbox"/> Asbestos Manufacturing                           | <input type="checkbox"/> Metal Products  |
| <input type="checkbox"/> Battery Manufacturing                            | <input type="checkbox"/> Nonferrous Metals Forming   |
| <input type="checkbox"/> Can Making                                       | <input type="checkbox"/> Nonferrous Metals Manufacturing   |
| <input type="checkbox"/> Canned and Preserved Fruit and Vegetables        | <input type="checkbox"/> Oil and Gas Extraction  |
| <input type="checkbox"/> Canned and Preserved Seafood                     | <input type="checkbox"/> Organic Chemicals Manufacturing   |
| <input type="checkbox"/> Cement Manufacturing                             | <input type="checkbox"/> Paint and Ink Formulating   |
| <input type="checkbox"/> Centralized Waste Treatment                      | <input type="checkbox"/> Paving and Roofing Manufacturing  |
| <input type="checkbox"/> Carbon Black                                     | <input type="checkbox"/> Pesticides Manufacturing  |
| <input type="checkbox"/> Coal Mining                                      | <input type="checkbox"/> Petroleum Refining  |
| <input type="checkbox"/> Coil Coating                                     | <input type="checkbox"/> Phosphate Manufacturing   |
| <input type="checkbox"/> Copper Forming                                   | <input type="checkbox"/> Photographic  |
| <input type="checkbox"/> Electric and Electronic Components Manufacturing | <input type="checkbox"/> Pharmaceutical  |
| <input type="checkbox"/> Electroplating                                   | <input type="checkbox"/> Plastic & Synthetic Materials   |
| <input type="checkbox"/> Explosives Manufacturing                         | <input type="checkbox"/> Plastics Processing Manufacturing   |
| <input type="checkbox"/> Feedlots   | <input type="checkbox"/> Porcelain Enamel  |
| <input type="checkbox"/> Ferroalloy Manufacturing                         | <input type="checkbox"/> Pulp, Paper, and Fiberboard Manufacturing                                 |
| <input type="checkbox"/> Fertilizer Manufacturing                         | <input type="checkbox"/> Rubber  |
| <input type="checkbox"/> Foundries (Metal Molding and Casting)            | <input type="checkbox"/> Soap and Detergent Manufacturing  |
| <input type="checkbox"/> Glass Manufacturing                              | <input type="checkbox"/> Steam and Electric  |
| <input type="checkbox"/> Grain Mills                                      | <input type="checkbox"/> Sugar Processing  |
| <input type="checkbox"/> Gum and Wood Chemicals Manufacturing             | <input type="checkbox"/> Textile Mills   |
| <input type="checkbox"/> Inorganic Chemicals                              | <input type="checkbox"/> Timber Products   |
| <input type="checkbox"/> Iron and Steel                                   | <input type="checkbox"/> Transportation Equipment Cleaning   |
| <input type="checkbox"/> Leather Tanning and Finishing                    | <input type="checkbox"/> Waste Combustion  |
| <input type="checkbox"/> Metal Finishing                                  | <input checked="" type="checkbox"/> Other (specify) <u>SIC 3299 - Nonmetallic Mineral Products</u> |
| <input type="checkbox"/> Meat Products                                    |  |

A facility with processes inclusive in these business areas may be covered by Environmental Protection (EPA) categorical standards. These facilities are termed "categorical users".

**SECTION C – WASTEWATER DISCHARGE INFORMATION**

1. Do you share an outfall with another facility?  Yes  No (If no, continue to C.2)

For each shared outfall, provide the following:

Applicant's Outfall No.	Name of Other Permittee/Facility	NPDES Permit No.	Where is sample collected by Applicant?
Unknown	City of Eufaula WWTP	AL0061871	Unknown

2. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

- |                 |                    |   |                             |                              |
|-----------------|--------------------|---|-----------------------------|------------------------------|
| <b>Current:</b> | Flow Metering      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
|                 | Sampling Equipment | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| <b>Planned:</b> | Flow Metering      | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
|                 | Sampling Equipment | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input type="checkbox"/> N/A |

If so, please attach a schematic diagram of the sewer system indicating the present or future location of this equipment and describe the equipment below:

3. Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics?

- Yes     No (If no, continue to C.4)

Briefly describe these changes and their anticipated effects on the wastewater volume and characteristics:

4. List the trade name and chemical composition of all biocides and corrosion inhibitors used:

Trade Name	Chemical Composition

For each biocide and/or corrosion inhibitor used, please include the following information:

- (1) 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge will ultimately reach,
- (2) quantities to be used,
- (3) frequencies of use,
- (4) proposed discharge concentrations, and
- (5) EPA registration number, if applicable

**SECTION D – WATER SUPPLY**

Water Sources (check as many as are applicable):

- |   |   |
|---|---|
| <input type="checkbox"/> Private Well   | <input type="checkbox"/> Surface Water          |
| <input checked="" type="checkbox"/> Municipal Water Utility (Specify City): _____ | <input type="checkbox"/> Other (Specify): _____ |

**IF MORE THAN ONE WELL OR SURFACE INTAKE, PROVIDE DATA FOR EACH ON AN ATTACHMENT**

City: 1.2 \_\_\_\_\_ MGD\*    Well: \_\_\_\_\_ MGD\*    Well Depth: \_\_\_\_\_ Ft.    Latitude: \_\_\_\_\_    Longitude: \_\_\_\_\_

Surface Intake Volume: \_\_\_\_\_ MGD\*    Intake Elevation in Relation to Bottom: \_\_\_\_\_ Ft.

Intake Elevation: \_\_\_\_\_ Ft.    Latitude: \_\_\_\_\_    Longitude: \_\_\_\_\_

Name of Surface Water Source: \_\_\_\_\_

\* MGD – Million Gallons per Day

**Cooling Water Intake Structure Information**

**Complete D.1 and D.2 if your water supply is provided by an outside source and not by an onsite water intake structure? (e.g., another industry, municipality, etc...)**

1. Does the provider of your source water operate a surface water intake?  Yes  No  
(If yes, continue, if no, go to Section E.)

a) Name of Provider: \_\_\_\_\_ b) Location of Provider: \_\_\_\_\_

c) Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

2. Is the provider a public water system (defined as a system which provides water to the public for human consumption or which provides only treated water, not raw water)?  Yes  No (If yes, go to Section E, if no, continue.)

**Only to be completed if you have a cooling water intake structure or the provider of your water supply uses an intake structure and does not treat the raw water.**

3. Is any water withdrawn from the source water used for cooling?  Yes  No

4. Using the average monthly measurements over any 12-month period, approximately what percentage of water withdrawn is used exclusively for cooling purposes? \_\_\_\_\_%

5. Does the cooling water consist of treated effluent that would otherwise be discharged?  Yes  No  
(If yes, go to Section E, if no, complete D.6 – D.17)

6. a. Is the cooling water used in a once-through cooling system?  Yes  No

- b. Is the cooling water used in a closed cycle cooling system?  Yes  No

7. When was the intake installed? \_\_\_\_\_  
(Please provide dates for all major construction/installation of intake components including screens)

8. What is the maximum intake volume? \_\_\_\_\_  
(maximum pumping capacity in gallons per day)

9. What is the average intake volume? \_\_\_\_\_  
(average intake pump rate in gallons per day average in any 30-day period)

10. What is the actual intake flow (AIF) as defined in 40 CFR §125.92(a)? \_\_\_\_\_ MGD

11. How is the intake operated? (e.g., continuously, intermittently, batch) \_\_\_\_\_

12. What is the mesh size of the screen on your intake? \_\_\_\_\_

13. What is the intake screen flow-through area? \_\_\_\_\_

14. What is the through-screen design intake flow velocity? \_\_\_\_\_ ft/sec

15. What is the through-screen actual velocity (in ft/sec)? \_\_\_\_\_ ft/sec

16. What is the mechanism for cleaning the screen? (e.g., does it rotate for cleaning) \_\_\_\_\_

17. Do you have any additional fish detraction technology on your intake?  Yes  No

18. Have there been any studies to determine the impact of the intake on aquatic organisms?  Yes  No (If yes, please provide.)

19. Attach a site map showing the location of the water intake in relation to the facility, shoreline, water depth, etc.

**SECTION E – WASTE STORAGE AND DISPOSAL INFORMATION**

Provide a description of the location of all sites involved in the storage of solids or liquids that could be accidentally discharged to a water of the state, either directly or indirectly via such avenues as storm water drainage, municipal wastewater systems, etc., which are located at the facility for which the NPDES application is being made. Where possible, the location should be noted on a map and included with this application:

Description of Waste	Description of Storage Location
Diesel Fuel	Aboveground storage tanks with secondary containment
Hydraulic Fuels/ Lubricating Oils	Aboveground storage tanks with secondary containment
Process Wastewater Sludge	Disposal - Coffee County Landfill

**SECTION F – COASTAL ZONE INFORMATION**

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County?  Yes  No  
 If yes, complete items F.1 – F.12:

- |   | Yes                      | No                       |
|---|--------------------------|--------------------------|
| 1. Does the project require new construction? .....   | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Will the project be a source of new air emissions? .....   | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Does the project involve dredging and/or filling of a wetland area or water way? .....   | <input type="checkbox"/> | <input type="checkbox"/> |
| If Yes, has the Corps of Engineers (COE) permit been received? .....  | <input type="checkbox"/> | <input type="checkbox"/> |
| COE Project No. _____   |                          |                          |
| 4. Does the project involve wetlands and/or submersed grassbeds? .....  | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Are oyster reefs located near the project site? .....  | <input type="checkbox"/> | <input type="checkbox"/> |
| If Yes, include a map showing project and discharge location with respect to oyster reefs   |                          |                          |
| 6. Does the project involve the site development, construction and operation of an energy facility as defined in ADEM Admin. Code r. 335-8-1-.02(bb)? .....   | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Does the project involve mitigation of shoreline or coastal area erosion? .....  | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Does the project involve construction on beaches or dune areas? .....  | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Will the project interfere with public access to coastal waters? .....   | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Does the project lie within the 100-year floodplain? .....  | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Does the project involve the registration, sale, use, or application of pesticides? .....   | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)? ..... | <input type="checkbox"/> | <input type="checkbox"/> |
| If yes, has the applicable permit for groundwater recovery or for groundwater well installation been obtained? .....  | <input type="checkbox"/> | <input type="checkbox"/> |

**SECTION G – ANTI-DEGRADATION EVALUATION**

In accordance with 40 CFR §131.12 and the ADEM Admin. Code r. 335-6-10-.04 for anti-degradation, the following information must be provided, if applicable. It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity. If further information is required to make this demonstration, attach additional sheets to the application.

- Is this a new or increased discharge that began after April 3, 1991?  Yes  No  
 If yes, complete G.2 below. If no, go to Section H.
- Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in G.1?  Yes  No

If yes, do not complete this section. If no, and the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete G.2.A – G.2.F below and ADEM Forms 311 and 313 (attached). ADEM Form 313 must be provided for each alternative considered technically viable.



Information required for new or increased discharges to high quality waters:

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

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

C. How much reduction in employment will the discharger be avoiding?

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

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

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

---

#### SECTION H – EPA Application Forms

All Applicants must submit EPA permit application forms. More than one application form may be required from a facility depending on the number and types of discharges or outfalls found. The EPA application forms are found on the Department's website at <http://www.adem.alabama.gov/programs/water/waterforms.cnt>. The EPA application forms must be submitted in duplicate as follows:

1. All applicants must submit Form 1.
2. Applicants for existing industrial facilities (including manufacturing facilities, commercial facilities, mining activities, and silvicultural activities) which discharge process wastewater must submit Form 2C.
3. Applicants for new industrial facilities which propose to discharge process wastewater must submit Form 2D.
4. Applicants for new and existing industrial facilities which discharge only non-process wastewater (i.e., non-contact cooling water and/or sanitary wastewater) must submit Form 2E.
5. Applicants for new and existing facilities whose discharge is composed entirely of storm water associated with industrial activity must submit Form 2F, unless exempted by § 122.26(c)(1)(ii). If the discharge is composed of storm water and non-storm water, the applicant must also submit Forms 2C, 2D, and/or 2E, as appropriate (in addition to Form 2F).

---

#### SECTION I – ENGINEERING REPORT/BMP PLAN REQUIREMENTS

See ADEM 335-6-6-.08(i) & (j)

**SECTION J- RECEIVING WATERS**

Outfall No.	Receiving Water(s)	303(d) Segment?	Included in TMDL?*
DSN002S	Barbour Creek (Walter F George Lake)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

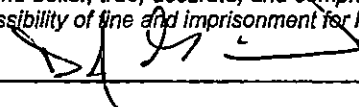
\*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:

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

**SECTION K - APPLICATION CERTIFICATION**

The information contained in this form must be certified by a responsible official as defined in ADEM Administrative Code r. 335-6-6-.09 "signatories to permit applications and reports" (see below).

*"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."*

Signature of Responsible Official:  Date Signed: 11/23/2020

Name: David Girouard Title: Plant Manager

If the Responsible Official signing this application is not identified in Section A.7, provide the following information:

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_

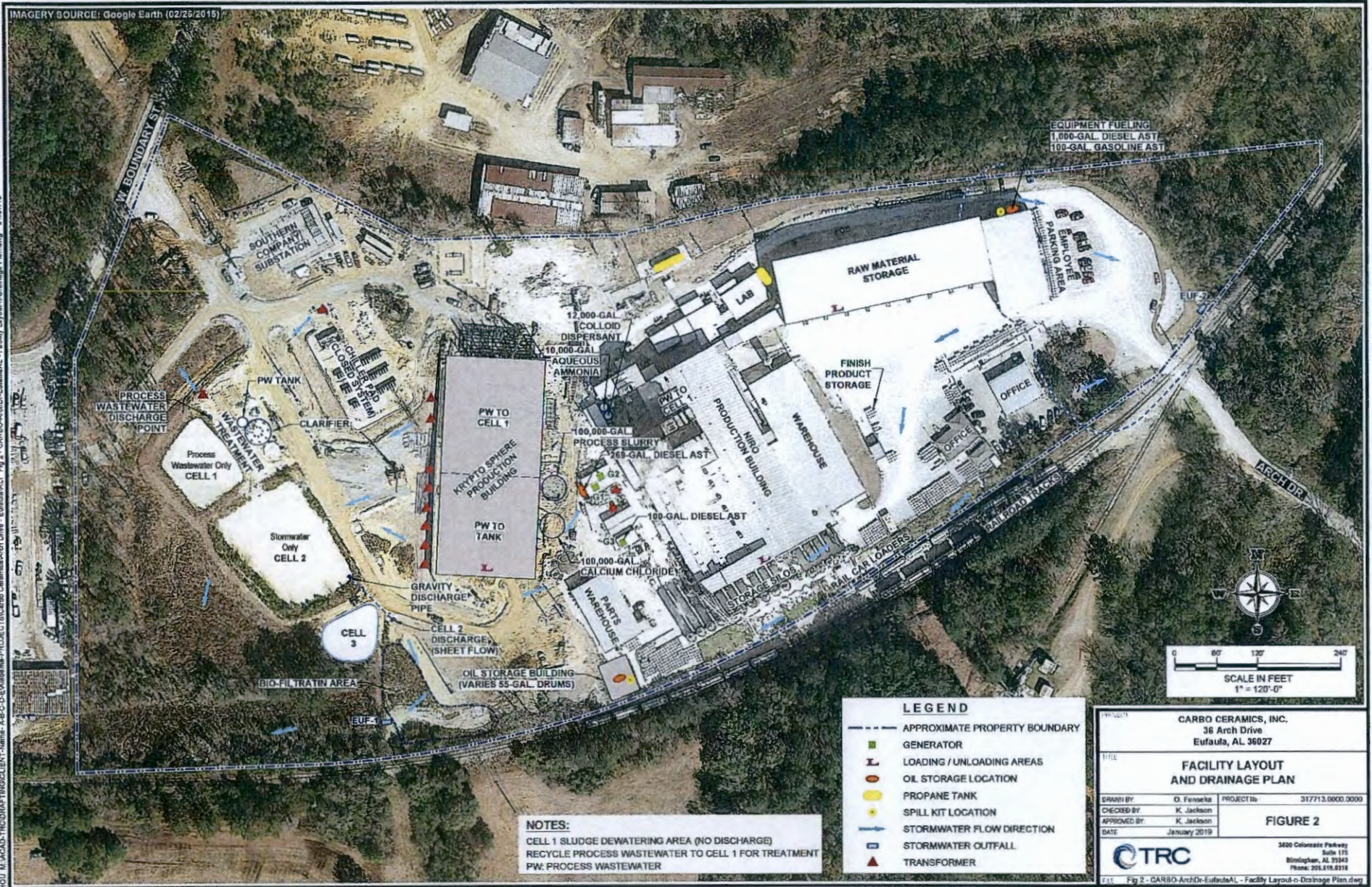
**335-6-6-.09 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.**

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



IMAGERY SOURCE: Google Earth (02/26/2015)

HOU: M:\A\0400-TRICORP\PROJECT\Name: 4-B-C-D-Eval\mes-PRD\ECTB\Carbo Ceramic\Arch Draw - Eufaula-ALL Fig 2 - CARBO Arch Dr-Eufaula-AL - Facility Layout-Drainage Plan.dwg 01/07/19



**NOTES:**  
 CELL 1 SLUDGE DEWATERING AREA (NO DISCHARGE)  
 RECYCLE PROCESS WASTEWATER TO CELL 1 FOR TREATMENT  
 PW: PROCESS WASTEWATER

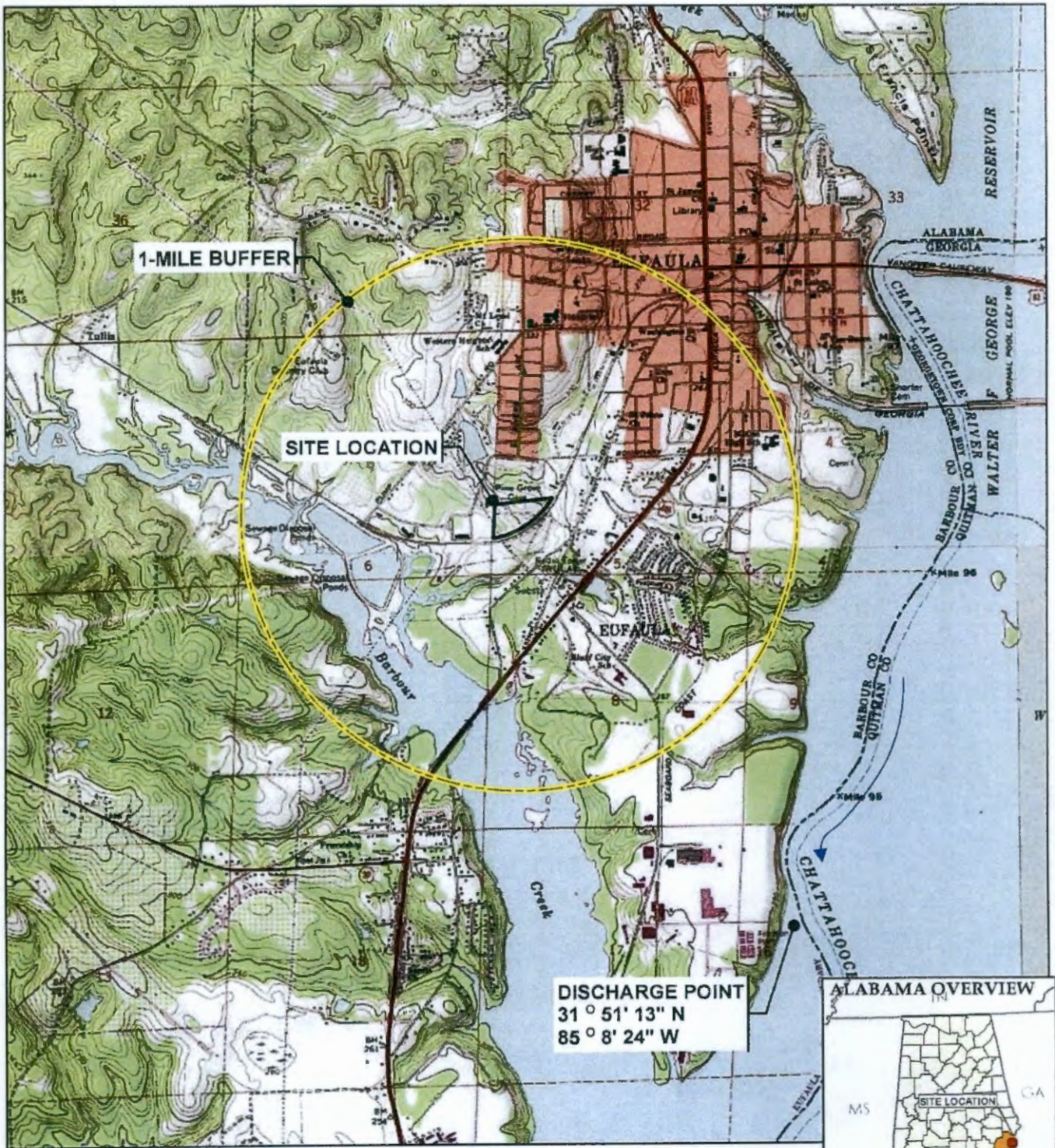
LEGEND	
	APPROXIMATE PROPERTY BOUNDARY
	GENERATOR
	LOADING / UNLOADING AREAS
	OIL STORAGE LOCATION
	PROPANE TANK
	SPILL KIT LOCATION
	STORMWATER FLOW DIRECTION
	STORMWATER OUTFALL
	TRANSFORMER



<b>CARBO CERAMICS, INC.</b> 36 Arch Drive Eufaula, AL 36027	
<b>FACILITY LAYOUT AND DRAINAGE PLAN</b>	
DRAWN BY: O. Fenske CHECKED BY: K. Jackson APPROVED BY: K. Jackson DATE: January 2019	PROJECT No: 317713.0000.0000  <b>FIGURE 2</b>
<small>3800 Colsonate Parkway        Suite 175        Birmingham, AL 35243        Phone: 205.316.9316</small>	


Fig 2 - CARBO Arch Dr-Eufaula-AL - Facility Layout-Drainage Plan.dwg





BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES, EUFAULA NORTH (1968).



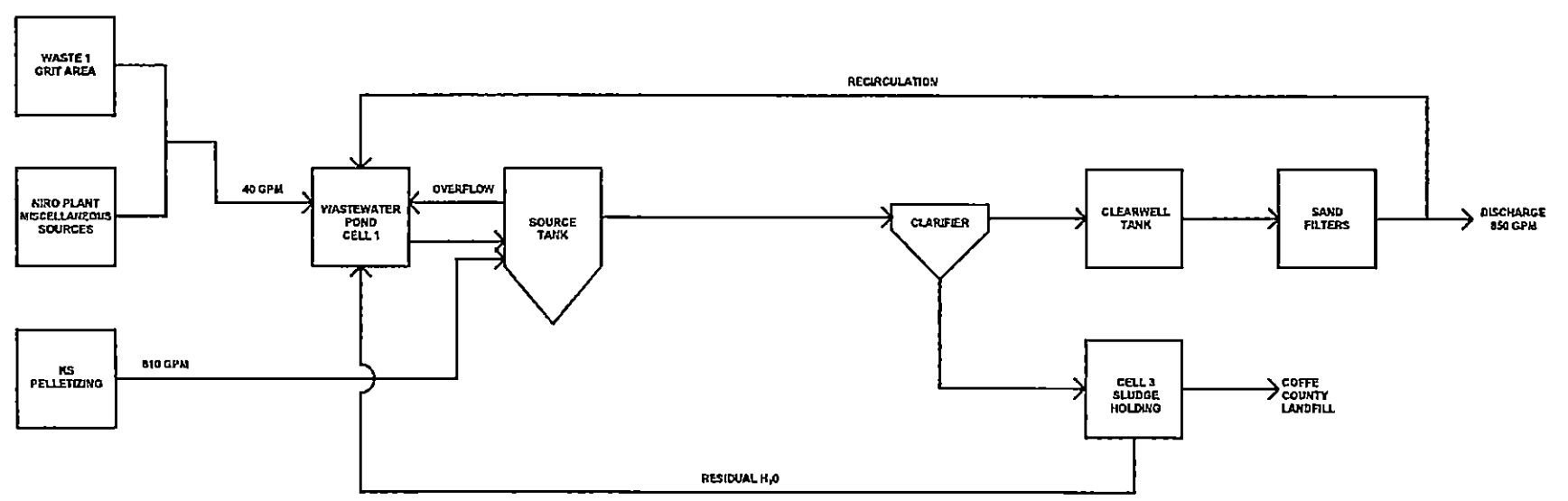
 <p>230 West Monroe St. Suite 630 Chicago, IL 60606 Phone: 312.578.0870</p> <p>TRC - GIS</p>	PROJECT:	CARBO CERAMICS INC. 36 ARCH DRIVE EUFAULA, ALABAMA	DRAWN BY:	S. MAJOR
	TITLE:	<b>WORKING COPY</b> SITE LOCATION MAP	CHECKED BY:	
			APPROVED BY:	
			DATE:	FEBRUARY 2020
			PROJ. NO.:	376202
			FILE:	376202-001slm.mxd
				<b>FIGURE 1</b>



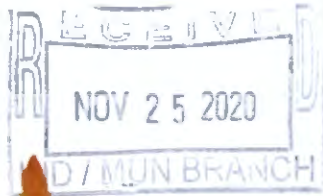
A/D DATA  
 Drawing Name  
 Operator Name  
 Drawing Date

J:\Projects\Carbo Ceramics\Carbo Ceramics\wastwtrFD.dwg  
 PROJECT: AMT  
 1" = 1'  
 Drawn By: JLF  
 Checked By: JLF  
 Date: 08/14/14  
 Project No: 21500002

As noted on the  
 As noted on the  
 Layout  
 Layout  
 Layout



PROJECT				CARBO CERAMICS EUFALA, ALABAMA			
SHEET TITLE							
SITE WASTEWATER FLOW DIAGRAM							
DRAWN BY:	JLF	SCALE:	NOT TO SCALE	PROJ. NO.	21500002		
CHECKED BY:	JLF	FILE NO.	SD\WwWtr\FD.dwg				
APPROVED BY:	JLF	DATE PLOTTED:					
DATE:	AUGUST 2014		FIGURE 1				
				30 Palewood Drive, Suite 300 Palewood Plaza One Greenville, SC 29615 Phone: 864.281.0030			



**Environmental Resource Analysts, Inc.**

2975 Brown Court  
Auburn, AL 36830  
334-502-3444  
(Fax) 334-502-8888

28 Years in Business, and counting  
[www.eralab.com](http://www.eralab.com)

**Laboratory Testing Report**

**Sample #: 200068**

**Prepared For:**

Carbo Ceramics  
36 Arch Drive  
Eufaula, AL 36027

**Attention: Brandon Sorrell**

*We appreciate the opportunity to provide testing results for you. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data, please do not hesitate to contact the Technical Manager or the Lab Director at the number listed above.*

The analyses presented in this report were performed by ERA, Inc. Any exceptions or problems with the analyses are noted in the Laboratory Testing Report.

Any issues encountered during sample receipt are documented on the Cooler Receipt Form.

The results as reported relate only to the item(s) submitted for testing.

This report shall be used or copied only in its entirety. ERA, Inc. is not responsible for the consequences arising from the use of a partial report.



## ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

**Results of Analysis For:** Carbo Ceramics  
36 Arch Drive  
Eufaula, AL 36027

Project: 617-0320

Date Received: 3/10/2020

**Sample Number:** 200068-01  
**Description:** grab

**Collection Date:** 03/04/2020 9:00  
**Location:** stormwater OF1

Analysis	Result	Units	Qual.	MDL	PQL	Method	Collection Date/Time	Analysis Date/Time	Analyst
Oil & Grease	<4.56	mg/L		4.56	5	EPA 1664A	03/04/20 09:00	03/11/20 11:00	TH
TSS	877	mg/L(Dry)		2.5	2.5	SM 2540D Mod-2011	03/04/20 09:00	03/10/20 17:00	DS

MDL: Method Detection Limit  
PQL: Practical Quantitation Limit  
BMDL: Below Method Detection Limit

All collection and test times are reported as central standard time.  
EPA- Methods for Chemical Analysis of Water and Wastes, 1994.  
Std. Methods for the Exam. Of Water and Wastewater, 22nd Ed.

This report was reviewed for completeness and approved.  
Date Complete: 03/16/2020

Dyana Hughes, Reporting Manager

All data on this report is in compliance with the reported method unless otherwise noted.

Erin Consuegra, QA/QC Manager



# CHAIN OF CUSTODY



## ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830  
Tel. (334) 502-3444 Fax (334) 502-8888

Standard  
 Expedite (Addition Fees Apply)  
Date Required \_\_\_\_\_

Client: Carbo Ceramics Eufaula

Project: 617-0320

Sample No.	200068-01
Location	stormwater OF1
Collector	C. T. [Signature]
Date/Time Sampled	3/4/20 @ 0900

G or C	Composite Sample(s)		
	Subsample Frequency	First Subsample Date/Time	Last Subsample Date/Time
grab			

Flow Rate: \_\_\_\_\_

Sample	Preservation	Analysis
-01a	None	TSS

Preservation CK	Sample	Preservation	Analysis
<u>U</u>	-01b	H2SO4	Oil and Grease

Preservation CK
<u>pH=2</u>

For Client Use: \_\_\_\_\_

Date Prepared: 010520

Relinquished By: [Signature]

Date/Time: 3/10/20 @ 0730

Received By: [Signature]

Date/Time: 3-10-20/1620

Relinquished By: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received By: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Received at Lab By: [Signature]	Date/Time: 3-10-20/1345
---------------------------------	-------------------------

Relinquished To Sealed Container:





Client Cabo Ceramics

Sample # 200068

# ERA Cooler Receipt Form

200069

## 1. Condition of Cooler Upon Unpacking

A. Date & Time of Cooler Unpacking 3-10-20/1350 Receiving Analyst: U

B. Method of Delivery:

Fed Ex  UPS  USPS  ERA Driver  Client Drop Off  Other  
Tracking Number \_\_\_\_\_

C. Condition of Custody Seal upon arrival:  Absent  Present & Broken by ERA Driver  Present & sealed  Present & broken

## 2. Condition of Cooler Contents

A. Chain Of Custody Information:  Completed  Incomplete,

B. Cooling Process  Solid Ice  Ice pack  Dry Ice  None  Other

C. Broken Bottles?  No  Yes If yes, which? \_\_\_\_\_

D. Temperature °C 1.8 Thermometer ID: Auburn  
Reason for incorrect temp: ( $>6.0^{\circ}\text{C}$ )  Frozen  Beginning of Cooling process  Ice melted  Other

## 3. Sample Information and Verification

A. Sample Numbers match Chain of Custody?  Yes  No, \_\_\_\_\_

Correct bottle types used for each sample?  Yes  No, \_\_\_\_\_

All samples arrived within holding time?  Yes  No, \_\_\_\_\_

Sufficient volume in each bottle for tests?  Yes  No, \_\_\_\_\_

B. All samples were verified & marked on the Chain of Custody?  Yes  No, \_\_\_\_\_

C. Samples with preservative have been checked and are in the correct pH range?  Yes, no preservatives needed  No, see preservative info  Not applicable

pH Strip Lot #: 232518

D. Hexane Lot for O&G 19090538  N/A

E. Trip Blanks  Absent  Present  N/A

### Additional Preservative information

1 Preservative Type: \_\_\_\_\_  
2 Preservative Lot # \_\_\_\_\_  
3 Preservative Type: \_\_\_\_\_  
4 Preservative Lot # \_\_\_\_\_

## 4. Comments and Resolutions

If any non-compliance was noted (temp out of range, holding time exceedance), contact the client to inform them and document here. Note how client was contacted (email/phone) when/who contacted and result of communication:

How was client contacted: Email Who contacted? JD Date/Time of contact: 03/10/20 1703

Result of communication: TS will arrive at 9:00 am on 03/10/20. Notified client to see if he wants to recollect. Analyst ran 3/10 after 6:00 am

## 5. Analyst Conformation

The information regarding cooler, chain of custody, and sample receipt is correct and verified by the analyst. If conditions are not met the appropriate actions were taken by the receiving analyst and/or the lab manager

Primary Reviewer: U

Secondary Reviewer: W oblin



## ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

**Sample #:** 200068

All results are reported in Central Time.

### **Definitions**

BMDL – Below Method Detection Limit  
BOD – Biochemical Oxygen Demand  
BTEX – Benzene, Ethylbenzene, Toluene, Xylenes  
cBOD – Carbonaceous Biochemical Oxygen Demand  
CCV – Continuing Calibration Verification  
COD – Chemical Oxygen Demand  
DO – Dissolved Oxygen  
DOC – Dissolved Organic Carbon  
DW – Drinking Water  
HAA – Halo Acetic Acid  
HPC – Heterotrophic Plate Count  
HR – High Range  
ICP – Inductively Coupled Plasma  
LCS – Laboratory Control Sample  
LR – Low Range  
MDL – Method Detection Limit  
MS – Mass Spectrometer  
MS – Matrix Spike  
ND – Not Detected at or above the MDL  
NPDES – National Pollutant Discharge Elimination System  
PQL – Practical Quantitation Limit  
RECRA – Resource Conservation and Recovery Act  
RL – Reporting Limit  
SID – State Indirect Discharge  
SOC – Synthetic Organic Compound  
SVOC – Semi-volatile Organic Compound  
TCLP – Toxic Characteristic Leaching Procedure  
TD – Total Dissolved  
TDS – Total Dissolved Solids  
TKN – Total Kjeldahl nitrogen  
TNI – The NELAC Institute  
TOC – Total Organic Carbon  
TOX – Toxicity  
TS – Total Solids  
TSS – Total Suspended Solids  
TTHM – Total Trihalomethanes  
UV – Ultraviolet  
VOC – Volatile Organic Compound  
VS – Volatile Solids  
WW – Wastewater

**End of Report**



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**Laboratory Testing Report**

**Sample #: 200069**

**Prepared For:**

Carbo Ceramics  
36 Arch Drive  
Eufaula, AL 36027

**Attention: Brandon Sorrell**

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Any issues encountered during sample receipt are documented on the Cooler Receipt Form.

The results as reported relate only to the item(s) submitted for testing.

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# ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

**Results of Analysis For:** Carbo Ceramics  
36 Arch Drive  
Eufaula, AL 36027

Project: 617-0320  
Date Received: 3/10/2020

**Sample Number:** 200069-01  
**Description:** grab

**Collection Date:** 03/04/2020 9:10  
**Location:** stormwater OF2

Analysis	Result	Units	Qual.	MDL	PQL	Method	Collection Date/Time	Analysis Date/Time	Analyst
Oil & Grease	<4.56	mg/L		4.56	5	EPA 1664A	03/04/20 09:10	03/11/20 11:00	TH
TSS	137	mg/L(Dry)		2.5	2.5	SM 2540D Mod-2011	03/04/20 09:10	03/10/20 17:00	DS

MDL: Method Detection Limit  
PQL: Practical Quantitation Limit  
BMDL: Below Method Detection Limit

All collection and test times are reported as central standard time.  
EPA- Methods for Chemical Analysis of Water and Wastes, 1994.  
Std. Methods for the Exam. Of Water and Wastewater, 22nd Ed.

This report was reviewed for completeness and approved.  
Date Complete: 03/16/2020

Dyana Hughes, Reporting Manager

All data on this report is in compliance with the reported method unless otherwise noted.

Erin Consuegra, QA/QC Manager

7



# CHAIN OF CUSTODY



**ENVIRONMENTAL RESOURCE ANALYSTS, INC.**

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830  
Tel. (334) 502-3444 Fax (334) 502-8888

Standard  
 Expedite (Addition Fees Apply)  
Date Required \_\_\_\_\_

Client: Carbo Ceramics Eufaula

Project: 617 *500*

Sample No.	200069-01
Location	stormwater OF2
Collector	<i>C. FRAMMELL</i>
Date/Time Sampled	<i>3/11/20 @ 0910</i>

G or C	Composite Sample(s)		
	Subsample Frequency	First Subsample Date/Time	Last Subsample Date/Time
GRAB			

Flow Rate: \_\_\_\_\_

Sample	Preservation	Analysis	Preservation CK	Sample	Preservation	Analysis	Preservation CK
-01a	None	TSS	<i>CL</i>	-01b	H2SO4	Oil and Grease	<i>pHed</i>

For Client Use: \_\_\_\_\_

Date Prepared: *010620*

Relinquished By: *Cecil Frammell* Date/Time: *3/10/20 @ 0730* Received By: *CL* Date/Time: *3-10-20/1140*

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received at Lab By: *CL* Date/Time: *3-10-20/1345* Relinquished To Sealed Container:



Client Carbo Ceramics  
ERA Cooler Receipt Form

Sample # 200068  
200069

**1. Condition of Cooler Upon Unpacking**

A. Date & Time of Cooler Unpacking 3-10-20/1350 Receiving Analyst: cl

B. Method of Delivery:

Fed Ex  UPS  USPS  ERA Driver  Client Drop Off  Other  
Tracking Number \_\_\_\_\_

C. Condition of Custody Seal upon arrival:  Absent  Present & Broken by ERA Driver  Present & sealed  Present & broken

**2. Condition of Cooler Contents**

A. Chain Of Custody Information:  Completed  Incomplete,

B. Cooling Process  Solid Ice  Ice pack  Dry Ice  None  Other

C. Broken Bottles?  No  Yes If yes, which? \_\_\_\_\_

D. Temperature °C 1.8 Thermometer ID: Auburn

Reason for incorrect temp: (>6.0°C)  Frozen  Beginning of Cooling process  Ice melted  Other \_\_\_\_\_

**3. Sample Information and Verification**

A. Sample Numbers match Chain of Custody?  Yes  No, \_\_\_\_\_

Correct bottle types used for each sample?  Yes  No, \_\_\_\_\_

All samples arrived within holding time?  Yes  No, \_\_\_\_\_

Sufficient volume in each bottle for tests?  Yes  No, \_\_\_\_\_

B. All samples were verified & marked on the Chain of Custody?  Yes  No, \_\_\_\_\_

C. Samples with preservative have been checked and are in the correct pH range?  Yes, no preservatives needed  No, see preservative info  Not applicable

pH Strip Lot #: 232518

Additional Preservative information	
1 Preservative Type:	_____
2 Preservative Lot #	_____
3 Preservative Type:	_____
4 Preservative Lot #	_____

D. Hexane Lot for O&G 19090538  N/A

E. Trip Blanks  Absent  Present  N/A

**4. Comments and Resolutions**

If any non-compliance was noted (temp out of range, holding time exceedance), contact the client to inform them and

A document here. Note how client was contacted (email/phone) when/who contacted and result of communication:

How was client contacted: Email Who contacted? JD Date/Time of contact: 03/10/20 1703

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**5. Analyst Conformation**

The information regarding cooler, chain of custody, and sample receipt is correct and verified by the analyst. If conditions are not met the appropriate actions were taken by the receiving analyst and/or the lab manager

Primary Reviewer: cl

Secondary Reviewer: [Signature]



## ENVIRONMENTAL RESOURCE ANALYSTS, INC.

Auburn Technology Park - 2975 Brown Ct. - Auburn, AL 36830

Tel. (334) 502-3444 Fax (334) 502-8888

**Sample #:** 200069

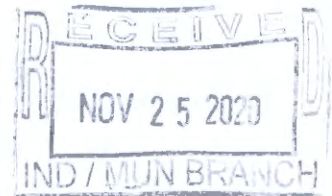
All results are reported in Central Time.

### Definitions

BMDL – Below Method Detection Limit  
BOD – Biochemical Oxygen Demand  
BTEX – Benzene, Ethylbenzene, Toluene, Xylenes  
cBOD – Carbonaceous Biochemical Oxygen Demand  
CCV – Continuing Calibration Verification  
COD – Chemical Oxygen Demand  
DO – Dissolved Oxygen  
DOC – Dissolved Organic Carbon  
DW – Drinking Water  
HAA – Halo Acetic Acid  
HPC – Heterotrophic Plate Count  
HR – High Range  
ICP – Inductively Coupled Plasma  
LCS – Laboratory Control Sample  
LR – Low Range  
MDL – Method Detection Limit  
MS – Mass Spectrometer  
MS – Matrix Spike  
ND – Not Detected at or above the MDL  
NPDES – National Pollutant Discharge Elimination System  
PQL – Practical Quantitation Limit  
RECRA – Resource Conservation and Recovery Act  
RL – Reporting Limit  
SID – State Indirect Discharge  
SOC – Synthetic Organic Compound  
SVOC – Semi-volatile Organic Compound  
TCLP – Toxic Characteristic Leaching Procedure  
TD – Total Dissolved  
TDS – Total Dissolved Solids  
TKN – Total Kjeldahl nitrogen  
TNI – The NELAC Institute  
TOC – Total Organic Carbon  
TOX – Toxicity  
TS – Total Solids  
TSS – Total Suspended Solids  
TTHM – Total Trihalomethanes  
UV – Ultraviolet  
VOC – Volatile Organic Compound  
VS – Volatile Solids  
WW – Wastewater

**End of Report**





ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)
NOTICE OF TERMINATION - NPDES GENERAL PERMITS (INDUSTRIAL ACTIVITIES)

Instructions: This form should be used to submit a Notice of Termination of coverage under any applicable NPDES General Permit listed below. Please complete all questions. Incomplete responses or a missing signature or title will delay processing. If space is insufficient, continue on an attached sheet(s) as necessary. Attach other information as needed. Please type or print legibly in blue or black ink. The permittee should continue to comply with all permit terms and conditions until such time that the Department provides written confirmation that permit coverage has been terminated. Mail completed form to:

ADEM-Water Division
Industrial General Permit Section
PO Box 301463
Montgomery, Alabama 36130-1463

Applicable NPDES General Permits

Table listing applicable NPDES General Permits such as ALG020000 Asphalt, ALG030000 Boat/Ship Building and Repair, ALG060000 Lumber/Wood, etc.

SECTION 1: FACILITY IDENTIFICATION INFORMATION

A. Name of Permittee: CARBO Ceramics Inc. NPDES Permit Number: ALG 230028
Name of Facility: CARBO Ceramics Inc. - Eufaula Plant

B. Facility Location Address (do not list a PO Box number):
Street Address: 36 Arch Drive, City: Eufaula, County: Barbour

C. Contact Name and Mailing Address (i.e. the person to which ADEM should send the Termination Letter):
Contact Name: Joel Howard, Company Name: CARBO Ceramics Inc.
Contact Title: HSE Manager, Mailing Address Line 1: 5050 Westway Park Boulevard
Phone Number: 281-921-6684, Mailing Address Line 2: Suite 150
Email Address: joel.howard@carboceramics.com, Mailing City, State, Zip Code: Houston, Texas 77041

SECTION 2: REASON FOR TERMINATION

- A. Termination is requested for the following reason(s):
1. The facility no longer has process and/or stormwater discharges associated with the industrial activity for which coverage under this NPDES General Permit was required. Please select which applies.
a. The industrial activity has ceased and there is no remaining industrial exposure (i.e. salvage material removed, solid waste/debris properly disposed)
b. The industrial activity has not ceased, however, there is no longer any industrial exposure (Please be aware in such a case a No Exposure Certification should be submitted to the Department.) Please describe what changes occurred that eliminated the industrial exposure.
2. The facility is now covered under another NPDES permit or a No Exposure Certification. Please provide the NPDES Permit Number or No Exposure Certification Number: A10386243
3. The permittee has transferred or lost operational control of the facility to another operator. You must complete Item B.
4. The permittee has transferred or lost legal responsibility of the facility. You must complete Item B.



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NOV 25 2020  
IND / WJVN BRANCH

8 If the current permittee (to verify the operational control or legal ownership of the facility (Item 3, or 4 (checked above), and the succeeding responsible owner and/or operator below. (Please note, once this permit has been terminated, the permit may NOT be transferred and the succeeding responsible owner and/or operator must obtain initial coverage (i.e. new permit number) prior to discharge. Only a valid fee not expired or terminated) NPDES General Permit may be transferred using ADEM Form 466.)

Company Name \_\_\_\_\_  
Mailing Address Line 1 \_\_\_\_\_  
Mailing Address Line 2 \_\_\_\_\_  
Mailing City, State, and Zip Code \_\_\_\_\_  
Contact Name \_\_\_\_\_  
Contact Title \_\_\_\_\_  
Contact Phone Number \_\_\_\_\_  
Contact Email Address \_\_\_\_\_

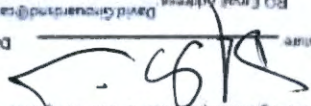
New Owner  New Operator

Company Name \_\_\_\_\_  
Mailing Address Line 1 \_\_\_\_\_  
Mailing Address Line 2 \_\_\_\_\_  
Mailing City, State, and Zip Code \_\_\_\_\_  
Contact Name \_\_\_\_\_  
Contact Title \_\_\_\_\_  
Contact Phone Number \_\_\_\_\_  
Contact Email Address \_\_\_\_\_

**Section 5: Certification and Signatures**

I understand that discharging pollutants in storm water associated with regulated activity in waters of the State that is not authorized by NPDES permit coverage is a violation of State law. I also understand that discharging pollutants in wastewater in waters of the State that is not authorized by NPDES permit coverage is a violation of State law. I further understand that the subject of this request for termination does not release the operator from NPDES permit termination or the permit's ADCA Administrative Code Chapter 335-6-6, or other ADCA rules and a complete and correct request for ADCA rules, an environmental problem related to the discharge of stormwater and/or wastewater from the site or that incorrect information has been provided, implementation of remedial measures may be required to include treatment of the MCI in order to correct any deficiencies, comply with state and federal permitting requirements, and provide for the protection of water quality.

I certify under penalty of law that the form and all 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 any 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, correct, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations.

RO Name (type or print) David Guardard RO Signature  Date Signed 11/20/2020  
 Plant Manager RO Email Address David.Guardard@carbochemics.com

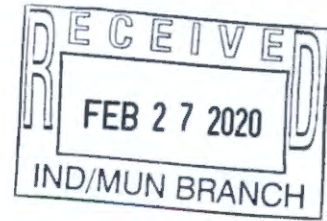
The information contained in this form must be certified by a responsible official (RO) as defined ADEM Administrative Code 7.336-6-4.09 "Signatories to Permit Applications and Reports." By definition, a responsible official is:

- (a) in the case of a corporation, by a person executive officer of at least the level of vice president or a manager assigned or designated in accordance with corporate procedures with such designation submitted in writing a request by the Department who is responsible for manufacturing production or issuing licenses and is authorized to make management decisions which govern the operation of the registrant;
- (b) in the case of a partnership, by a general partner;
- (c) in the case of a sole proprietorship, by the proprietor or
- (d) in the case of a municipal state, federal, or other public entity by either a person executive officer or having similar status.



February 25, 2020

Alabama Department of Environmental Management  
Water Division – NPDES Permit Branch  
1400 Coliseum Boulevard  
Montgomery, Alabama 36110-2400



# 0-R#20-510.35

**Subject: CARBO Ceramics Inc. – Eufaula Plant  
National Pollutant Discharge Elimination System Permit (NPDES)  
Permit No. AL0082643 – Renewal Application Package**

CARBO Ceramics Inc. (CARBO) is submitting this NPDES permit renewal application package for Permit No. AL0082643, regarding discharge of treated effluent at the existing CARBO manufacturing facility in Eufaula, Barbour County, Alabama. The existing permit expires on August 31, 2020. An administratively complete permit application is due on March 4, 2020.

Enclosed please find the original and one copy of the following items:

1. United States Environmental Protection Agency (USEPA) Form 1
2. USEPA Form 2C
3. ADEM Form 187
4. Site Location Map
5. Site Layout Diagram
6. Wastewater Treatment System Process Flow Diagram

As previously communicated in a letter dated April 22, 2015 to Mr. Scott Ramsey of the Alabama Division of Environmental Management (*re: Comments Regarding Draft NPDES Permit No. AL0082643*), CARBO requested replacement of chemical oxygen demand (COD) with total organic carbon (TOC) as a specified monitoring parameter due to positive bias interferences from chloride concentrations in available approved COD analytical methods.

The aforementioned letter included additional correspondence supporting the bias and specific relationship developed for COD and TOC values. CARBO requests this monitoring variance for TOC continue to be included as a specified monitoring parameter in lieu of COD with issuance of a revised permit.

**CARBO Ceramics Inc.**

36 Arch Drive, Eufaula, AL 36027

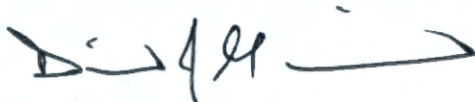
Phone +1 334 687 7005

carboceramics.com



If you have any questions or require additional information, please contact Jason Goodwin 281.921.6472 or by email at [jason.goodwin@carboceramics.com](mailto:jason.goodwin@carboceramics.com).

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Girouard', with a long horizontal stroke extending to the right.

**David Girouard**

Plant Manager – Eufaula Plant  
CARBO Ceramics Inc.

Attachments

c: Jason Goodwin  
Brandon Sorrell  
Mary Parker



22 April 2015

Mr. Scott Ramsey  
Chief, Industrial Section, Industrial/Municipal Branch – Water Division  
Alabama Division of Environmental Management  
1400 Coliseum Boulevard  
Montgomery, Alabama 36110-2400

Energy Center II

575 N. Dairy Ashford,

Suite 300

Houston, Texas 77079

Main: +1-281-921-6400

Fax: +1-281-921-6401

[www.carboceramics.com](http://www.carboceramics.com)

**Subject: CARBO Ceramics Inc. – Eufaula Plant, Barbour County  
Comments Regarding Draft NPDES Permit No. AL0082643**

Dear Mr. Ramsey:

CARBO Ceramics Inc. (CARBO) recently received a draft National Pollutant Discharge Elimination System (NPDES) permit (No. AL0082643) from the Alabama Department of Environmental Management (ADEM). The permit addresses the proposed discharge of treated wastewater effluent from new production operations being installed at the existing CARBO manufacturing facility in Eufaula, Alabama. CARBO is providing the following comments on the draft permit for ADEM's consideration.

**Page 2, Part I.A. – Effluent Characteristic; Page 4, Part I.B.2 – Test Procedures**

The draft permit includes a requirement in Part I.A. to conduct weekly testing to determine chemical oxygen demand (COD) in the effluent. The draft permit also refers to 40 CFR 136 and associated guidelines as the basis for testing procedures that must be used to determine compliance with the limits contained in Part I.A. of the permit.

Based on experience gained at our New Iberia, Louisiana facility and consultation with water treatment consultants and analytical laboratories, CARBO has confirmed that the expected concentrations of chlorides in the Eufaula plant's effluent will introduce a positive bias into testing for COD when using various approved methods, such as HACH 8000. Correspondence to this effect is included with this letter, and the concern has been documented thoroughly by independent sources.

CARBO has learned that a correlation of COD with total organic compounds (TOC), which is unaffected by high concentrations of effluent chloride, has been demonstrated as a valid substitute methodology for characterizing COD. Specifically, analysis of COD and TOC from treated effluent streams maintain a consistent relationship according to the following equation:

$$\text{COD (ppm)} = 7.25 + [2.99 * \text{TOC (ppm)}]$$

As such, CARBO requests that ADEM revise the monitoring requirement contained in Part I.A. to replace COD with TOC as a specified monitoring parameter, and any characterization of COD from Eufaula's effluent should be adjusted according to the equation provided above.

**Page 8, Part I.E.1. – Schedule of Compliance**

The draft permit requires that compliance with the applicable discharge limitations shall be attained on the effective date of the permit. Due to the complexity associated with the wastewater treatment system at the Eufaula plant, coupled with the length of time that may transpire between the effective permit date and the completion of commissioning activities at the Eufaula plant, CARBO requests that this condition be modified to the following:

“Compliance shall be attained within 30 days after initiation of discharge of wastewater from the permitted facility.”

Such a condition would allow CARBO sufficient time to complete commissioning activities for the wastewater treatment process and address any equipment or operational challenges that may arise during initial operation.

**Page 21, Part IV.A.3. – Compliance Schedule**

The draft permit includes a requirement that the Best Management Practices (BMP) plan required by Part IV.A.1 must be reviewed and updated (as necessary) and fully implemented within six months after the effective date of the permit. As noted in the previous comment, it is likely that initial discharge of wastewater under this permit may not occur for several weeks or even months after the effective date of the permit. This condition, as currently written, would provide limited meaningful time during which the BMP could be properly implemented, evaluated and improved. CARBO requests that ADEM modify this condition to require update and full implementation of the BMP plan within six months after initial discharge of effluent.

**Page 22, Part IV.B.1.d. – Additional Testing Requirements**

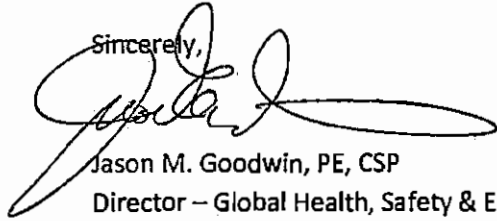
The draft permit includes a requirement that four additional rounds of acute whole effluent toxicity (WET) testing must be conducted in the event of a failed acute WET test. Several factors including the complexity, cost and timeframe involved with acute WET testing protocols, as well as the inability to feasibly conduct independent confirmatory acute WET testing outside of the laboratory, are causes for concern.

Specifically, CARBO prefers to avoid conducting successive additional courses of acute WET testing (weekly over four successive weeks) when failed results are attributable to laboratory error. As such, CARBO requests that ADEM modify this

requirement to specify that acute WET testing that shows "false failure" results due to laboratory error will not be considered an event of non-compliance and will not be the basis for triggering enhanced acute WET testing.

CARBO appreciates your timely processing of this application as well as the opportunity to provide comment on the draft permit. If you have any questions or need additional information, please contact Dan Herlihy at (478) 943-2333.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason M. Goodwin", written over the word "Sincerely,".

Jason M. Goodwin, PE, CSP  
Director – Global Health, Safety & Environment  
CARBO Ceramics Inc.

Encl.

c: David Kessler  
Jimmy Smith  
Dan Herlihy





## CERAMICS

4701 W. Admiral Doyle Drive • New Iberia, LA 70560

July 22, 2014

Department of Environmental Quality  
Office of Environmental Services  
602 North Fifth Street  
Baton Rouge, LA 70802  
Attn: Water Permits Division, Amy Exnicios

Re: LPDES Permit LA0125881  
CARBO Ceramics Inc. - New Iberia Facility  
Agency Interest No. 5051  
New Iberia, Iberia Parish, Louisiana

CARBO Ceramics Inc. ("CARBO") was issued the subject permit on February 17, 2012 to discharge treated pellet processing wastewater and utility water from an existing ceramic proppant manufacturer located at 4810 Industrial Drive in New Iberia, Iberia Parish". On June 12, 2014 CARBO submitted an application for approval to include additional wastewaters originating from the Ceramic Manufacturing Plant to the existing outfall 001 via the new wastewater treatment system.

The new wastewater treatment system has been constructed and is currently being tested. No discharges from the new treatment system to surface have occurred because we are experiencing some analytical difficulty in determining true chemical oxygen demand (COD) values. The chloride level in our wastewater effluent is interfering with the COD result. The analytical difficulty in the determination of COD is due to the presence of free chloride. Chloride ions are oxidized under the conditions of the COD test and its oxidation results in a positive interference reflected in falsely high COD values. Enclosed is a letter from hoh-PAK Laboratory Inc. to CARBO regarding this issue.

In contrast to COD, total organic carbon (TOC) measures the total organic content of the water. TOC is a highly sensitive, non-specific measurement of all organics present in a sample. TOC has a low-level detection, rapid analysis time, and can detect all carbon-based residuals. The standard TOC analysis does not have chloride interference. Research continues to show that TOC correlates effectively with COD. TOC is the only generic test for carbon. It does not give false positives or false negatives as the COD test may.

Due to the serious errors to which the standard COD method is prone, CARBO requests that LDEQ replace COD with TOC as a monitoring parameter in the subject permit. If you have any question concerning this submittal please contact me at [traci.huey@carboceramics.com](mailto:traci.huey@carboceramics.com) or (337) 374-0561.

Sincerely,

Traci Landry-Huey

Sr. Environmental Engineer



- P. O. Box 10063
- New Iberia, Louisiana 70562
- Phone (337) 364-2967
- Fax (337) 367-0862

July 22, 2014

Traci Landry-Huey, Sr. Environmental Engineer  
Carbo Ceramics, Inc.  
4701 W. Admiral Doyle Drive  
New Iberia, LA 70560

Dear Traci,

This is to confirm our conversation of this date concerning your situation with chloride and high COD results. According to the accredited method that we use for determining COD in wastewater (Hach 8000), Chlorides are quantitatively oxidized by dichromate and represent a positive interference.

Chloride is the primary interference when determining COD concentration. Chlorides form a white precipitate in the COD vial, which causes a false concentration of COD. The Carbo Ceramic samples that we have been receiving have a high concentration of chlorides, which in turn causes your results to show a false positive concentration of COD.

Please don't hesitate to call me if you need further information.

Sincerely,

HOH-PAK LABORATORY, INC.  
LELAP #01962

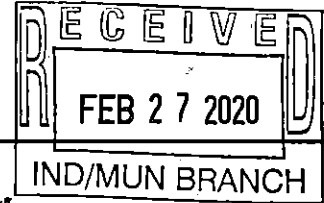
Dirk J. Helton  
Laboratory Director



**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)**  
**NPDES INDIVIDUAL PERMIT APPLICATION**  
**SUPPLEMENTARY INFORMATION FOR INDUSTRIAL FACILITIES**

**Instructions:** This form should be used to submit the required supplementary information for an application for an NPDES individual permit for industrial facilities. The completed application should be submitted to ADEM in duplicate. If insufficient space is available to address any item, please continue on an attached sheet of paper. Please mark "N/A" in the appropriate box when an item is not applicable to the applicant. Please type or print legibly in blue or black ink. Mail the completed application to:

ADEM-Water Division  
Industrial Section  
P O Box 301463  
Montgomery, AL 36130-1463



**PURPOSE OF THIS APPLICATION**

- Initial Permit Application for New Facility\*       Initial Permit Application for Existing Facility\*  
 Modification of Existing Permit                       Reissuance of Existing Permit  
 Revocation & Reissuance of Existing Permit      \* *An application for participation in the ADEM's Electronic Environmental (E2) Reporting must be submitted to allow permittee to electronically submit reports as required.*

**SECTION A - GENERAL INFORMATION**

1. Facility Name: CARBO Ceramics Inc. - Eufaula Plant  
a. Operator Name: CARBO Ceramics Inc.  
b. Is the operator identified in A.1.a, the owner of the facility?     Yes     No  
If no, provide name and address of the operator and submit information indicating the operator's scope of responsibility for the facility.  
\_\_\_\_\_  
\_\_\_\_\_
2. NPDES Permit Number: AL 0 0 8 2 6 4 3 (not applicable if initial permit application)  
3. SID Permit Number (if applicable): IU \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
4. NPDES General Permit Number (if applicable): ALG 2 3 0 0 2 8  
5. Facility Physical Location: (Attach a map with location marked; street, route no. or other specific identifier)  
Street: 36 Arch Drive  
City: Eufaula County: Barbour State: LA Zip: 36027  
Facility Location (Front Gate): Latitude: N. Latitude 31.877750 Longitude: W. Longitude 85.160190  
6. Facility Mailing Address: 36 Arch Drive  
City: Eufaula County: Barbour State: AL Zip: 36027  
7. Responsible Official (as described on the last page of this application):  
Name and Title: David Girouard, Plant Manager  
Address: 36 Arch Drive  
City: Eufaula State: AL Zip: 36027  
Phone Number: (334) 688-3508 Email Address: \_\_\_\_\_  
8. Designated Facility Contact:  
Name and Title: Jason Goodwin, Director - Global HSE & Operational Excellence  
Phone Number: (281) 921-6472 Email Address: Jason.Goodwin@carboceramics.com

9. Designated Discharge Monitoring Report (DMR) Contact:

Name and Title: Brandon Sorrell, Quality Manager  
Phone Number: (334) 688-3520 Email Address: Brandon.Sorrell@carboceramics.com

10. Type of Business Entity:

- Corporation     General Partnership     Limited Partnership     Limited Liability Company     Sole Proprietorship  
 Other (Please Specify) \_\_\_\_\_

11. Complete this section if the Applicant's business entity is a Corporation

a) Location of Incorporation:

Address: 36 Arch Drive  
City: Eufaula County: Barbour State: AL Zip: 36027

b) Parent Corporation of Applicant:

Name: CARBO Ceramics, Inc.  
Address: 575 N Dairy Ashford, Ste. 300  
City: Houston State: TX Zip: 77079

c) Subsidiary Corporation(s) of Applicant:

Name: N/A  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

d) Corporate Officers:

Name: Shannon Nelson, VP of Manufacturing and Distribution  
Address: 575 N Dairy Ashford, Ste. 300  
City: Houston State: TX Zip: 77079  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

e) Agent designated by the corporation for purposes of service:

Name: N/A  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

12. If the Applicant's business entity is a Partnership, please list the general partners.

Name: <u>N/A</u>	Name: <u>N/A</u>
Address: _____	Address: _____
City: _____ State: _____ Zip: _____	City: _____ State: _____ Zip: _____

13. If the Applicant's business entity is a Proprietorship, please enter the proprietor's information.

Name: N/A  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

14. Permit numbers for Applicant's previously issued NPDES Permits and identification of any other State of Alabama Environmental Permits presently held by the Applicant, its parent corporation, or subsidiary corporations within the State of Alabama:

<u>Permit Name</u>	<u>Permit Number</u>	<u>Held By</u>
NPDES General Permit	ALG230028	CARBO Ceramics Inc. - Eufaula Plant
CAA Part 70 Operating Permit	601-0003	CARBO Ceramics Inc. - Eufaula Plant
_____	_____	_____
_____	_____	_____
_____	_____	_____

15. Identify all Administrative Complaints, Notices of Violation, Directives, Administrative Orders, or Litigation concerning water pollution, if any, against the Applicant, its parent corporation or subsidiary corporations within the State of Alabama within the past five years (attach additional sheets if necessary):

<u>Facility Name</u>	<u>Permit Number</u>	<u>Type of Action</u>	<u>Date of Action</u>
N/A	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**SECTION B – BUSINESS ACTIVITY**

1. Indicate applicable Standard Industrial Classification (SIC) Codes for all processes. If more than one applies, list in order of importance:

- a. 3299
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_

2. If your facility conducts or will be conducting any of the processes listed below (regardless of whether they generate wastewater, waste sludge, or hazardous waste), place a check beside the category of business activity (check all that apply):

**Industrial Categories**

- |   |  |
|---|--|
| <input type="checkbox"/> Aluminum Forming                                 | <input type="checkbox"/> Metal Molding and Casting                 |
| <input type="checkbox"/> Asbestos Manufacturing                           | <input type="checkbox"/> Metal Products                            |
| <input type="checkbox"/> Battery Manufacturing                            | <input type="checkbox"/> Nonferrous Metals Forming                 |
| <input type="checkbox"/> Can Making                                       | <input type="checkbox"/> Nonferrous Metals Manufacturing           |
| <input type="checkbox"/> Canned and Preserved Fruit and Vegetables        | <input type="checkbox"/> Oil and Gas Extraction                    |
| <input type="checkbox"/> Canned and Preserved Seafood                     | <input type="checkbox"/> Organic Chemicals Manufacturing           |
| <input type="checkbox"/> Cement Manufacturing                             | <input type="checkbox"/> Paint and Ink Formulating                 |
| <input type="checkbox"/> Centralized Waste Treatment                      | <input type="checkbox"/> Paving and Roofing Manufacturing          |
| <input type="checkbox"/> Carbon Black                                     | <input type="checkbox"/> Pesticides Manufacturing                  |
| <input type="checkbox"/> Coal Mining                                      | <input type="checkbox"/> Petroleum Refining                        |
| <input type="checkbox"/> Coil Coating                                     | <input type="checkbox"/> Phosphate Manufacturing                   |
| <input type="checkbox"/> Copper Forming                                   | <input type="checkbox"/> Photographic                              |
| <input type="checkbox"/> Electric and Electronic Components Manufacturing | <input type="checkbox"/> Pharmaceutical                            |
| <input type="checkbox"/> Electroplating                                   | <input type="checkbox"/> Plastic & Synthetic Materials             |
| <input type="checkbox"/> Explosives Manufacturing                         | <input type="checkbox"/> Plastics Processing Manufacturing         |
| <input type="checkbox"/> Feedlots   | <input type="checkbox"/> Porcelain Enamel                          |
| <input type="checkbox"/> Ferroalloy Manufacturing                         | <input type="checkbox"/> Pulp, Paper, and Fiberboard Manufacturing |
| <input type="checkbox"/> Fertilizer Manufacturing                         | <input type="checkbox"/> Rubber                                    |
| <input type="checkbox"/> Foundries (Metal Molding and Casting)            | <input type="checkbox"/> Soap and Detergent Manufacturing          |
| <input type="checkbox"/> Glass Manufacturing                              | <input type="checkbox"/> Steam and Electric                        |
| <input type="checkbox"/> Grain Mills                                      | <input type="checkbox"/> Sugar Processing                          |
| <input type="checkbox"/> Gum and Wood Chemicals Manufacturing             | <input type="checkbox"/> Textile Mills                             |
| <input type="checkbox"/> Inorganic Chemicals                              | <input type="checkbox"/> Timber Products                           |
| <input type="checkbox"/> Iron and Steel                                   | <input type="checkbox"/> Transportation Equipment Cleaning         |
| <input type="checkbox"/> Leather Tanning and Finishing                    | <input type="checkbox"/> Waste Combustion                          |
| <input type="checkbox"/> Metal Finishing                                  | <input type="checkbox"/> Other (specify) _____                     |
| <input type="checkbox"/> Meat Products                                    |  |

A facility with processes inclusive in these business areas may be covered by Environmental Protection (EPA) categorical standards. These facilities are termed "categorical users" and should skip to question 2 of Section C.

3. Give a brief description of all operations at this facility including primary products or services (attach additional sheets if necessary):

The CARBO Ceramics Inc. Eufaula Facility manufactures small ceramic beads. These beads are coated at the facility through a proprietary process that results in a high-salinity wastewater which cannot be further recycled without affecting product quality. This water makes up the majority of the wastewater discharge from the facility.

**SECTION C – WASTEWATER DISCHARGE INFORMATION**

Facilities that checked activities in B.2 and are considered Categorical Industrial Users should skip to C.2 of this section.

1. **For Non-Categorical Users Only:** Provide wastewater flows for each of the processes or proposed processes. Using the process flow schematic (Figure 1), enter the description that corresponds to each process. (The flow schematic should include all treatment units as well as monitoring and discharge points). [New facilities should provide estimates for each discharge.]

Process Description	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow	Discharge Type (batch, continuous, intermittent)
Process Wastewater	165,200 (July 2019)	272,700 (June 2018)	Continuous

If batch discharge occurs or will occur, indicate: [new facilities may estimate.]

- a. Number of batch discharges: \_\_\_\_\_ per day
- b. Average discharge per batch: \_\_\_\_\_ (GPD)
- c. Time of batch discharges \_\_\_\_\_ at \_\_\_\_\_  
(days of week) (hours of day)
- d. Flow rate: \_\_\_\_\_ gallons/minute
- e. Percent of total discharge: \_\_\_\_\_

Non-Process Discharges (e.g. non-contact cooling water)	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow
_____	_____	_____
_____	_____	_____

**2. Complete this Section only if you are subject to Categorical Standards and plan to directly discharge the associated wastewater to a water of the State.** If Categorical wastewater is discharged exclusively via an indirect discharge to a public or privately-owned treatment works, check "Yes" in the appropriate space below and proceed directly to part 2.c .

Yes

For Categorical Users: Provide the wastewater discharge flows or production (whichever is applicable by the effluent guidelines) for each of your processes or proposed processes. Using the process flow schematic (Figure 1, pg 14), enter the description that corresponds to each process. [New facilities should provide estimates for each discharge.]

2a.

Regulated Process	Applicable Category	Applicable Subpart	Type of Discharge Flow (batch, continuous, intermittent)
_____	_____	_____	_____
_____	_____	_____	_____

2b.

Process Description	Last 12 Months (gals/day), (lbs/day), etc. Highest Month Average*	Highest Flow Year of Last 5 (gals/day), (lbs/day), etc. Monthly Average*	Discharge Type (batch, continuous, intermittent)
_____	_____	_____	_____
_____	_____	_____	_____

\* Reported values should be expressed in units of the applicable Federal production-based standard. For example, flow (MGD), production (pounds per day), etc.

If batch discharge occurs or will occur, indicate: [new facilities may estimate.]

- a. Number of batch discharges: \_\_\_\_\_ per day
- b. Average discharge per batch: \_\_\_\_\_ (GPD)
- c. Time of batch discharges \_\_\_\_\_ at \_\_\_\_\_  
(days of week) (hours of day)
- d. Flow rate: \_\_\_\_\_ gallons/minute
- e. Percent of total discharge: \_\_\_\_\_

2c.

Non categorical Process Description	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow	Discharge Type (batch, continuous, intermittent)
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

If batch discharge occurs or will occur, indicate: [new facilities may estimate.]

- a. Number of batch discharges: \_\_\_\_\_ per day
- b. Average discharge per batch: \_\_\_\_\_ (GPD)
- c. Time of batch discharges \_\_\_\_\_ at \_\_\_\_\_  
(days of week) (hours of day)
- d. Flow rate: \_\_\_\_\_ gallons/minute
- e. Percent of total discharge: \_\_\_\_\_

2d.

Non-Process Discharges (e.g. non-contact cooling water)	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow
_____	_____	_____
_____	_____	_____

**All Applicants must complete C.3 – C.6.**

3. Do you share an outfall with another facility?  Yes  No (If no, continue to C.4)  
For each shared outfall, provide the following:

Applicant's Outfall No.	Name of Other Permittee/Facility	NPDES Permit No.	Where is sample collected by Applicant?
Unknown	Eufaula WWTP	AL0061671	Unknown
_____	_____	_____	_____
_____	_____	_____	_____

4. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

- |                 |                    |   |                             |                              |
|-----------------|--------------------|---|-----------------------------|------------------------------|
| <b>Current:</b> | Flow Metering      | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
|                 | Sampling Equipment | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| <b>Planned:</b> | Flow Metering      | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
|                 | Sampling Equipment | <input type="checkbox"/> Yes            | <input type="checkbox"/> No | <input type="checkbox"/> N/A |

If so, please attach a schematic diagram of the sewer system indicating the present or future location of this equipment and describe the equipment below:

Outfall DSN0021 is located at the discharge end of the plant's water treatment system.  
Outfall DSN002S is located after comingling of discharge from Carbo and Eufaula WWTP

5. Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics?  
 Yes  No (If no, continue to C.6)

Briefly describe these changes and their anticipated effects on the wastewater volume and characteristics:

6. List the trade name and chemical composition of all biocides and corrosion inhibitors used:

Trade Name	Chemical Composition
_____	_____
_____	_____
_____	_____

For each biocide and/or corrosion inhibitor used, please include the following information:

- (1) 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge will ultimately reach,
- (2) quantities to be used,
- (3) frequencies of use,
- (4) proposed discharge concentrations, and
- (5) EPA registration number, if applicable

**SECTION D – WATER SUPPLY**

Water Sources (check as many as are applicable):

- Private Well
  Surface Water  
 Municipal Water Utility (Specify City): \_\_\_\_\_
  Other (Specify): \_\_\_\_\_

**IF MORE THAN ONE WELL OR SURFACE INTAKE, PROVIDE DATA FOR EACH ON AN ATTACHMENT**

City: 1.2 MGD\*    Well: \_\_\_\_\_ MGD\*    Well Depth: \_\_\_\_\_ Ft.    Latitude: \_\_\_\_\_    Longitude: \_\_\_\_\_

Surface Intake Volume: \_\_\_\_\_ MGD\*    Intake Elevation in Relation to Bottom: \_\_\_\_\_ Ft.

Intake Elevation: \_\_\_\_\_ Ft.    Latitude: \_\_\_\_\_    Longitude: \_\_\_\_\_

Name of Surface Water Source: \_\_\_\_\_

\* MGD – Million Gallons per Day

**Cooling Water Intake Structure Information**

Complete D.1 and D.2 if your water supply is provided by an outside source and not by an onsite water intake structure? (e.g., another industry, municipality, etc...)

1. Does the provider of your source water operate a surface water intake? Yes  No   
 (If yes, continue, if no, go to Section E.)  
 a) Name of Provider: \_\_\_\_\_    b) Location of Provider: \_\_\_\_\_  
 c) Latitude: \_\_\_\_\_    Longitude: \_\_\_\_\_

2. Is the provider a public water system (defined as a system which provides water to the public for human consumption or which provides only treated water, not raw water)?  Yes  No (If yes, go to Section E, if no, continue.)

**Only to be completed if you have a cooling water intake structure or the provider of your water supply uses an intake structure and does not treat the raw water.**

3. Is any water withdrawn from the source water used for cooling?  Yes  No
4. Using the average monthly measurements over any 12-month period, approximately what percentage of water withdrawn is used exclusively for cooling purposes? \_\_\_\_\_%
5. Does the cooling water consist of treated effluent that would otherwise be discharged?  Yes  No  
 (If yes, go to Section E, if no, complete D.6 – D.17)
6. a. Is the cooling water used in a once-through cooling system?  Yes  No  
 b. Is the cooling water used in a closed cycle cooling system?  Yes  No

7. When was the intake installed? \_\_\_\_\_  
(Please provide dates for all major construction/installation of intake components including screens)
8. What is the maximum intake volume? \_\_\_\_\_  
(maximum pumping capacity in gallons per day)
9. What is the average intake volume? \_\_\_\_\_  
(average intake pump rate in gallons per day average in any 30-day period)
10. What is the actual intake flow (AIF) as defined in 40 CFR §125.92(a)? \_\_\_\_\_ MGD
11. How is the intake operated? (e.g., continuously, intermittently, batch) \_\_\_\_\_
12. What is the mesh size of the screen on your intake? \_\_\_\_\_
13. What is the intake screen flow-through area? \_\_\_\_\_
14. What is the through-screen design intake flow velocity? \_\_\_\_\_ ft/sec
15. What is the through-screen actual velocity (in ft/sec)? \_\_\_\_\_ ft/sec
16. What is the mechanism for cleaning the screen? (e.g., does it rotate for cleaning) \_\_\_\_\_
17. Do you have any additional fish detraction technology on your intake?  Yes  No
18. Have there been any studies to determine the impact of the intake on aquatic organisms?  Yes  No (If yes, please provide.)
19. Attach a site map showing the location of the water intake in relation to the facility, shoreline, water depth, etc.

**SECTION E – WASTE STORAGE AND DISPOSAL INFORMATION**

Provide a description of the location of all sites involved in the storage of solids or liquids that could be accidentally discharged to a water of the state, either directly or indirectly via such avenues as storm water drainage, municipal wastewater systems, etc., which are located at the facility for which the NPDES application is being made. Where possible, the location should be noted on a map and included with this application:

Description of Waste	Description of Storage Location
Diesel Fuel	Aboveground storage tanks with secondary containment
Hydraulic Fuels/ Lubricating Oils	Aboveground storage tanks with secondary containment

Provide a description of the location of the ultimate disposal sites of solid or liquid waste by-products (such as sludges) from any wastewater treatment system located at the facility.

Description of Waste	Quantity (lbs/day)	Disposal Method*
Process wastewater sludge	17,000 (estimated)	Coffee County Landfill

\*Indicate which wastes identified above are disposed of at an off-site treatment facility and which are disposed of on-site. If any wastes are sent to an off-site centralized waste treatment facility, identify the waste and the facility.

**SECTION F – COASTAL ZONE INFORMATION**

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County?  Yes  No  
If yes, complete items F.1 – F.12:

- |   | <u>Yes</u>               | <u>No</u>                |
|---|--------------------------|--------------------------|
| 1. Does the project require new construction? .....         | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Will the project be a source of new air emissions? ..... | <input type="checkbox"/> | <input type="checkbox"/> |



- |  | <u>Yes</u>               | <u>No</u>                |
|--|--------------------------|--------------------------|
| 3. Does the project involve dredging and/or filling of a wetland area or water way?.....   | <input type="checkbox"/> | <input type="checkbox"/> |
| If Yes, has the Corps of Engineers (COE) permit been received?.....  | <input type="checkbox"/> | <input type="checkbox"/> |
| COE Project No. _____  |                          |                          |
| 4. Does the project involve wetlands and/or submersed grassbeds? .....   | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Are oyster reefs located near the project site?.....  | <input type="checkbox"/> | <input type="checkbox"/> |
| If Yes, include a map showing project and discharge location with respect to oyster reefs  |                          |                          |
| 6. Does the project involve the site development, construction and operation of an energy facility as defined in ADEM Admin. Code r. 335-8-1-.02(bb)?.....   | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Does the project involve mitigation of shoreline or coastal area erosion?.....  | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Does the project involve construction on beaches or dune areas?.....  | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Will the project interfere with public access to coastal waters?.....   | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Does the project lie within the 100-year floodplain?.....  | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Does the project involve the registration, sale, use, or application of pesticides?.....   | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)?..... | <input type="checkbox"/> | <input type="checkbox"/> |
| If yes, has the applicable permit for groundwater recovery or for groundwater well installation been obtained? .....   | <input type="checkbox"/> | <input type="checkbox"/> |

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**SECTION G – ANTI-DEGRADATION EVALUATION**

In accordance with 40 CFR §131.12 and the ADEM Admin. Code r. 335-6-10-.04 for anti-degradation, the following information must be provided, if applicable. It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity. If further information is required to make this demonstration, attach additional sheets to the application.

1. Is this a new or increased discharge that began after April 3, 1991?      Yes    No  
     If yes, complete G.2 below. If no, go to Section H.
  
2. Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in G.1?    Yes    No

If yes, do not complete this section. If no, and the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete G.2.A – G.2.F below and ADEM Forms 311 and 313 (attached). ADEM Form 313 must be provided for each alternative considered technically viable.

Information required for new or increased discharges to high quality waters:

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

\_\_\_\_\_

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

\_\_\_\_\_

C. How much reduction in employment will the discharger be avoiding?

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

**SECTION H – EPA Application Forms**

All Applicants must submit EPA permit application forms. More than one application form may be required from a facility depending on the number and types of discharges or outfalls found. The EPA application forms are found on the Department’s website at <http://www.adem.alabama.gov/programs/water/waterforms.cnt>. The EPA application forms must be submitted in duplicate as follows:

1. All applicants must submit Form 1.
2. Applicants for existing industrial facilities (including manufacturing facilities, commercial facilities, mining activities, and silvicultural activities) which discharge process wastewater must submit Form 2C.
3. Applicants for new industrial facilities which propose to discharge process wastewater must submit Form 2D.
4. Applicants for new and existing industrial facilities which discharge only non-process wastewater (i.e., non-contact cooling water and/or sanitary wastewater) must submit Form 2E.
5. Applicants for new and existing facilities whose discharge is composed entirely of storm water associated with industrial activity must submit Form 2F, unless exempted by § 122.26(c)(1)(ii). If the discharge is composed of storm water and non-storm water, the applicant must also submit Forms 2C, 2D, and/or 2E, as appropriate (in addition to Form 2F).

**SECTION I – ENGINEERING REPORT/BMP PLAN REQUIREMENTS**

See ADEM 335-6-6-.08(i) & (j)

**SECTION J– RECEIVING WATERS**

Outfall No.	Receiving Water(s)	303(d) Segment?		Included in TMDL?*	
DSN002S	Barbour Creek (Walter F George Lake)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No


\*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:

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

**SECTION K – APPLICATION CERTIFICATION**

The information contained in this form must be certified by a responsible official as defined in ADEM Administrative Code r. 335-6-6-.09 "signatories to permit applications and reports" (see below).

*"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."*

Signature of Responsible Official:  Date Signed: 26 Feb 20

Name and Title: David Girouard, Plant Manager

*If the Responsible Official signing this application is not identified in Section A.7, provide the following information:*

Mailing Address: \_\_\_\_\_

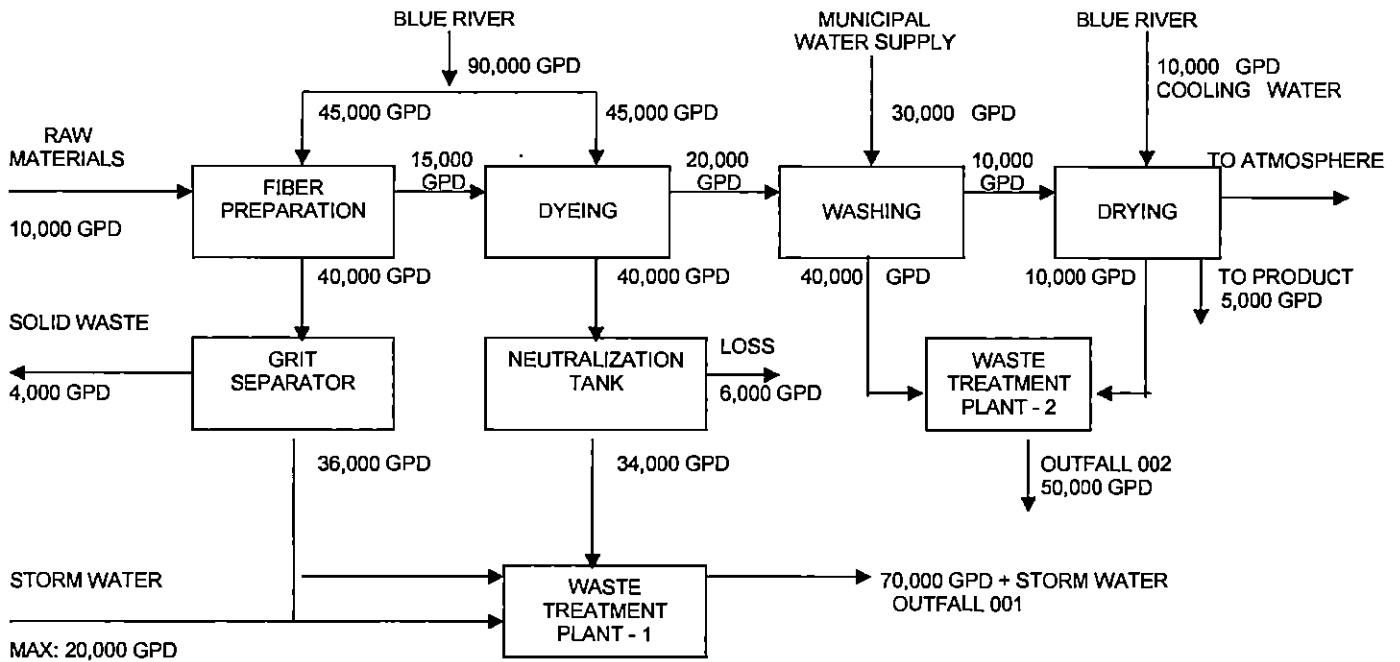
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_


**335-6-6-.09 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.**

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

FIGURE 1



SCHEMATIC OF WATER FLOW  
BROWN MILLS INC  
CITY, COUNTY, STATE

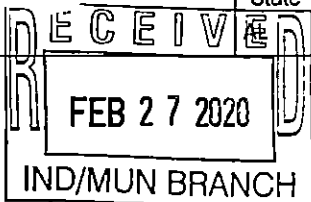
Form 1 NPDES		<b>U.S. Environmental Protection Agency</b> <b>Application for NPDES Permit to Discharge Wastewater</b> <b>GENERAL INFORMATION</b>
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**SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))**

<b>Activities Requiring an NPDES Permit</b>	1.1	<b>Applicants <i>Not Required</i> to Submit Form 1</b>		
	1.1.1	Is the facility a new or existing <b>publicly owned treatment works</b> ? If yes, STOP. Do NOT complete Form 1. Complete Form 2A.	1.1.2	Is the facility a new or existing <b>treatment works treating domestic sewage</b> ? If yes, STOP. Do NOT complete Form 1. Complete Form 2S.
	1.1.1	If yes, STOP. Do NOT complete Form 1. Complete Form 2A. <input checked="" type="checkbox"/> No	1.1.2	If yes, STOP. Do NOT complete Form 1. Complete Form 2S. <input checked="" type="checkbox"/> No
	1.2	<b>Applicants <i>Required</i> to Submit Form 1</b>		
	1.2.1	Is the facility a <b>concentrated animal feeding operation or a concentrated aquatic animal production facility</b> ? <input type="checkbox"/> Yes → Complete Form 1 and Form 2B. <input checked="" type="checkbox"/> No	1.2.2	Is the facility an <b>existing manufacturing, commercial, mining, or silvicultural facility that is currently discharging process wastewater</b> ? <input checked="" type="checkbox"/> Yes → Complete Form 1 and Form 2C. <input type="checkbox"/> No
	1.2.3	Is the facility a <b>new manufacturing, commercial, mining, or silvicultural facility that has not yet commenced to discharge</b> ? <input type="checkbox"/> Yes → Complete Form 1 and Form 2D. <input checked="" type="checkbox"/> No	1.2.4	Is the facility a <b>new or existing manufacturing, commercial, mining, or silvicultural facility that discharges only nonprocess wastewater</b> ? <input type="checkbox"/> Yes → Complete Form 1 and Form 2E. <input checked="" type="checkbox"/> No
1.2.5	Is the facility a <b>new or existing facility</b> whose discharge is composed entirely of <b>stormwater associated with industrial activity</b> or whose discharge is composed of both <b>stormwater and non-stormwater</b> ? <input type="checkbox"/> Yes → Complete Form 1 and Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). <input checked="" type="checkbox"/> No			

**SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))**

<b>Name, Mailing Address, and Location</b>	2.1	<b>Facility Name</b>		
		CARBO Ceramics Inc.		
	2.2	<b>EPA Identification Number</b>		
		110000790047		
	2.3	<b>Facility Contact</b>		
		Name (first and last) Jason Goodwin	Title Director - Global HSE & Operational Excellence	Phone number (281) 921-6472
	Email address jason.goodwin@carboceramics.com			
2.4	<b>Facility Mailing Address</b>			
	Street or P.O. box 36 Arch Drive			
	City or town Eufaula	State	ZIP code 36027	





EPA Identification Number 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.
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Form Approved 03/05/19  
OMB No. 2040-0004

Name, Mailing Address, and Location Continued	2.5	<b>Facility Location</b>		
		Street, route number, or other specific identifier 36 Arch Drive		
		County name Barbour	County code (if known)	
		City or town Eufaula	State AL	ZIP code 36027

**SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))**

SIC and NAICS Codes	3.1	<b>SIC Code(s)</b>	<b>Description (optional)</b>
		3299	Non-metallic Mineral Products Not Elsewhere Classified
	3.2	<b>NAICS Code(s)</b>	<b>Description (optional)</b>
		327999	All Other Misc. Non-metallic Mineral Product Manufacturing

**SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))**

Operator Information	4.1	<b>Name of Operator</b> CARBO Ceramics Inc.
	4.2	Is the name you listed in Item 4.1 also the owner? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	4.3	<b>Operator Status</b> <input type="checkbox"/> Public—federal <input type="checkbox"/> Public—state <input type="checkbox"/> Other public (specify) _____ <input checked="" type="checkbox"/> Private <input type="checkbox"/> Other (specify) _____
	4.4	<b>Phone Number of Operator</b> (281) 921-6472

Operator Information Continued	4.5	<b>Operator Address</b>		
		Street or P.O. Box 575 North Dairy Ashford Road, Suite 300		
		City or town Houston	State TX	ZIP code 77079
	Email address of operator jason.goodwin@carboceramics.com			

**SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))**

Indian Land	5.1	Is the facility located on Indian Land? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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EPA Identification Number 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.
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**SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))**

Existing Environmental Permits	6.1	<b>Existing Environmental Permits</b> (check all that apply and print or type the corresponding permit number for each)		
	<input checked="" type="checkbox"/>	NPDES (discharges to surface water) ALG230028	<input type="checkbox"/> RCRA (hazardous wastes)	<input type="checkbox"/> UIC (underground injection of fluids)
	<input checked="" type="checkbox"/>	PSD (air emissions) 601-0003	<input type="checkbox"/> Nonattainment program (CAA)	<input checked="" type="checkbox"/> NESHAPs (CAA) 601-0003
	<input type="checkbox"/>	Ocean dumping (MPRSA)	<input type="checkbox"/> Dredge or fill (CWA Section 404)	<input type="checkbox"/> Other (specify)

**SECTION 7. MAP (40 CFR 122.21(f)(7))**

Map	7.1	Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.)  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> CAFO—Not Applicable (See requirements in Form 2B.)
-----	-----	---

**SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))**

Nature of Business	8.1	Describe the nature of your business.  The CARBO Ceramics Inc. Eufaula Facility manufactures small ceramic beads used in a variety of industrial sectors. These beads are formed at the facility through a proprietary process that results in a high-salinity wastewater which cannot be further recycled without affecting product quality. This water makes up the majority of the wastewater discharge from the facility.
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**SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))**

Cooling Water Intake Structures	9.1	Does your facility use cooling water?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 10.1.
	9.2	Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.)  There are no surface water intakes. All water supplied to the facility comes from the City of Eufaula water supply.

**SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))**

Variance Requests	10.1	Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(m)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)  <input type="checkbox"/> Fundamentally different factors (CWA Section 301(n)) <input type="checkbox"/> Water quality related effluent limitations (CWA Section 302(b)(2)) <input type="checkbox"/> Non-conventional pollutants (CWA Section 301(c) and (g)) <input type="checkbox"/> Thermal discharges (CWA Section 316(a)) <input checked="" type="checkbox"/> Not applicable
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EPA Identification Number  
110000790047

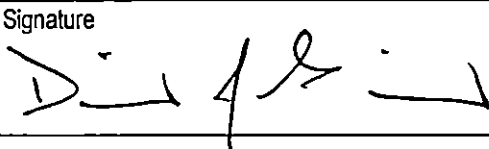
NPDES Permit Number  
AL0082643

Facility Name  
CARBO Ceramics Inc.

Form Approved 03/05/19  
OMB No. 2040-0004

**SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))**


Checklist and Certification Statement

11.1	In Column 1 below, mark the sections of Form 1 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 provide attachments.	
	Column 1	Column 2
	<input checked="" type="checkbox"/> Section 1: Activities Requiring an NPDES Permit	<input checked="" type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 2: Name, Mailing Address, and Location	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 3: SIC Codes	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 4: Operator Information	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 5: Indian Land	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 6: Existing Environmental Permits	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 7: Map	<input checked="" type="checkbox"/> w/ topographic map <input type="checkbox"/> w/ additional attachments
	<input checked="" type="checkbox"/> Section 8: Nature of Business	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 9: Cooling Water Intake Structures	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 10: Variance Requests	<input type="checkbox"/> w/ attachments
<input checked="" type="checkbox"/> Section 11: Checklist and Certification Statement	<input type="checkbox"/> w/ attachments	
11.2	<b>Certification Statement</b>	
	<i>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>	
	Name (print or type first and last name) David Girouard	Official title Plant Manager
	Signature 	Date signed 26 Feb 20



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Form 2C NPDES		<b>U.S. Environmental Protection Agency</b> <b>Application for NPDES Permit to Discharge Wastewater</b> <b>EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS</b>
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**SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))**

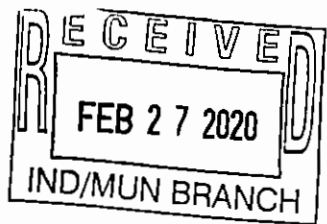
Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below.			
		<b>Outfall Number</b>	<b>Receiving Water Name</b>	<b>Latitude</b>	<b>Longitude</b>
		DSN002	Chattahoochee River	31° 51' 13" N	-85° 8' 24" W
				" "	" "

**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.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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**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.		
		<b>**Outfall Number**</b> <u>DSN002</u>		
		<b>Operations Contributing to Flow</b>		
		<b>Operation</b>	<b>Average Flow</b>	
		Waste 1 Grit Area and NIRO Plant Misc. Sources	0.06 mgd	
		KS Pelletizing	1.17 mgd	
			mgd	
			mgd	
		<b>Treatment Units</b>		
		<b>Description</b> (include size, flow rate through each treatment unit, retention time, etc.)	<b>Code from Table 2C-1</b>	<b>Final Disposal of Solid or Liquid Wastes Other Than by Discharge</b>
	Wastewater Pond Cell 1	1-U	5-Q	
	Clarifier	1-U		
	Sand Filters	1-R		
	Sludge Tank	S-L	5-Q	



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Average Flows and Treatment Continued

3.1  
cont.

**\*\*Outfall Number\*\*** DSN002

**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 Table 2C-1	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 Table 2C-1	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

No

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**SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))**

<b>Intermittent Flows</b>	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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		

**SECTION 5. PRODUCTION (40 CFR 122.21(g)(5))**

<b>Applicable ELGs</b>	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 6.			
	5.2	Provide the following information on applicable ELGs.			
		ELG Category	ELG Subcategory	Regulatory Citation	
<b>Production-Based Limitations</b>	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? <input type="checkbox"/> Yes <input type="checkbox"/> 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

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**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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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.				
	<b>Table A. Conventional and Non-Conventional Pollutants</b>				
	7.1	Are you requesting a waiver from your NPDES permitting authority for one or more of the Table A pollutants for any of your outfalls? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.3.			
	7.2	If yes, indicate the applicable outfalls below. Attach waiver request and other required information to the application. Outfall Number _____ Outfall Number _____ Outfall Number _____			
	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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No; a waiver has been requested from my NPDES permitting authority for all pollutants at all outfalls.			
	<b>Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants</b>				
	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.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? <input type="checkbox"/> Yes <input type="checkbox"/> No			
	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.)		
		<input type="checkbox"/> Volatile	<input type="checkbox"/> Acid	<input type="checkbox"/> Base/Neutral	<input type="checkbox"/> Pesticide
		<input type="checkbox"/> Volatile	<input type="checkbox"/> Acid	<input type="checkbox"/> Base/Neutral	<input type="checkbox"/> Pesticide
		<input type="checkbox"/> Volatile	<input type="checkbox"/> Acid	<input type="checkbox"/> Base/Neutral	<input type="checkbox"/> Pesticide

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Effluent and Intake Characteristics Continued	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? <input type="checkbox"/> Yes <input type="checkbox"/> No						
	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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
	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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? <input type="checkbox"/> Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. <input checked="" type="checkbox"/> 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
	<b>Table C. Certain Conventional and Non-Conventional Pollutants</b>							
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
	7.13	Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an ELG and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
	<b>Table D. Certain Hazardous Substances and Asbestos</b>							
	7.14	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
	7.15	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
	<b>Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)</b>							
	7.16	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? <input type="checkbox"/> Yes → Complete Table E. <input checked="" type="checkbox"/> No → SKIP to Section 8.						
7.17	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? <input type="checkbox"/> Yes <input type="checkbox"/> No							
<b>SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(g)(9))</b>								
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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 9.						
	8.2	List the pollutants below.						
		1.	4.	7.				
		2.	5.	8.				
	3.	6.	9.					

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**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) on a receiving water in relation to your discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?
		Acute Toxicity	semi-annual permit requirement	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
		Acute Toxicity	weekly follow up from 10/16/2019 submittal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No	

**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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 11.		
	10.2	Provide information for each contract laboratory or consulting firm below.		
			Laboratory Number 1	Laboratory Number 2
		Name of laboratory/firm	Environmental Resource Analysts, Inc.	
		Laboratory address	Auburn Technology Park 2975 Brown Ct. Auburn, AL 36830	
		Phone number	(334) 502-3444	
	Pollutant(s) analyzed	Chloride, Total Dissolved Solids (TDS), Oil and Grease, Total Suspended Solids, Ammonia (as N), pH, Total Organic Carbon (TOC)		

**SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(g)(13))**

Additional Information	11.1	Has the NPDES permitting authority requested additional information? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 12.	
	11.2	List the information requested and attach it to this application.	
		1.	4.
		2.	5.
	3.	6.	

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

12.2 **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
David Girouard	Plant Manager
Signature 	Date signed 26 Feb 20

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**TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))<sup>1</sup>**

	Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent			Intake (Optional)		
				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
<input type="checkbox"/> Check here if you have applied to your NPDES permitting authority for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD <sub>5</sub> )	<input checked="" type="checkbox"/>	Concentration						
			Mass						
2.	Chemical oxygen demand (COD)	<input checked="" type="checkbox"/>	Concentration						
			Mass						
3.	Total organic carbon (TOC)	<input type="checkbox"/>	Concentration	mg/L	441	104.7	15.3		
			Mass						
4.	Total suspended solids (TSS)	<input type="checkbox"/>	Concentration	mg/L	42.0	26.2	11.4		
			Mass						
5.	Ammonia (as N)	<input type="checkbox"/>	Concentration	mg/L	399	292.8	124.8		
			Mass						
6.	Flow	<input type="checkbox"/>	Rate	MGD	0.97	0.28	0.12		
7.	Temperature (winter)	<input checked="" type="checkbox"/>	°C	°C					
	Temperature (summer)	<input checked="" type="checkbox"/>	°C	°C					
8.	pH (minimum)	<input type="checkbox"/>	Standard units	s.u.	7.3	7.3	6.5		
	pH (maximum)	<input type="checkbox"/>	Standard units	s.u.	8.4	8.4	7.6		

<sup>1</sup> 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 B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))<sup>1</sup>**

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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.2	Arsenic, total (7440-39-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.3	Beryllium, total (7440-41-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.4	Cadmium, total (7440-43-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.5	Chromium, total (7440-47-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.6	Copper, total (7440-50-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.7	Lead, total (7439-92-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.8	Mercury, total (7439-97-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.9	Nickel, total (7440-02-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.10	Selenium, total (7782-49-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
1.11	Silver, total (7440-22-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) <sup>1</sup>											
	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
1.13	Zinc, total (7440-66-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
1.14	Cyanide, total (57-12-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
1.15	Phenols, total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
<b>Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)</b>											
2.1	Acrolein (107-02-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.2	Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.3	Benzene (71-43-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.4	Bromoforn (75-25-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.5	Carbon tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.6	Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.7	Chlorodibromomethane (124-48-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.8	Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))											
	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.10	Chloroform (67-66-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.11	Dichlorobromomethane (75-27-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.12	1,1-dichloroethane (75-34-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.13	1,2-dichloroethane (107-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.14	1,1-dichloroethylene (75-35-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.15	1,2-dichloropropane (78-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.16	1,3-dichloropropylene (542-75-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.17	Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.18	Methyl bromide (74-83-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.19	Methyl chloride (74-87-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.20	Methylene chloride (75-09-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.21	1,1,2,2-tetrachloroethane (79-34-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))											
	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.23	Toluene (108-88-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.24	1,2-trans-dichloroethylene (156-60-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.25	1,1,1-trichloroethane (71-55-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.26	1,1,2-trichloroethane (79-00-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.27	Trichloroethylene (79-01-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2.28	Vinyl chloride (75-01-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
<b>Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)</b>											
3.1	2-chlorophenol (95-57-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
3.2	2,4-dichlorophenol (120-83-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
3.3	2,4-dimethylphenol (105-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
3.4	4,6-dinitro-o-cresol (534-52-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
3.5	2,4-dinitrophenol (51-28-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))											
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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
3.7 4-nitrophenol (100-02-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
3.8 p-chloro-m-cresol (59-50-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
3.9 Pentachlorophenol (87-86-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
3.10 Phenol (108-95-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
3.11 2,4,6-trichlorophenol (88-05-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
<b>Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base/Neutral Compounds)</b>											
4.1 Acenaphthene (83-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
4.2 Acenaphthylene (208-96-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
4.3 Anthracene (120-12-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
4.4 Benzidine (92-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
4.5 Benzo (a) anthracene (56-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
4.6 Benzo (a) pyrene (50-32-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) <sup>1</sup>											
	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.8	Benzo (ghi) perylene (191-24-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.9	Benzo (k) fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.10	Bis (2-chloroethoxy) methane (111-91-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.11	Bis (2-chloroethyl) ether (111-44-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.12	Bis (2-chloroisopropyl) ether (102-90-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.14	4-bromophenyl phenyl ether (101-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.15	Butyl benzyl phthalate (85-68-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.16	2-chloronaphthalene (91-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.17	4-chlorophenyl phenyl ether (7005-72-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.18	Chrysene (218-01-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.19	Dibenzo (a,h) anthracene (53-70-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						



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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) <sup>1</sup>											
	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.21	1,3-dichlorobenzene (541-73-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.22	1,4-dichlorobenzene (106-46-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.23	3,3-dichlorobenzidine (91-94-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.24	Diethyl phthalate (84-66-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.25	Dimethyl phthalate (131-11-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.26	Di-n-butyl phthalate (84-74-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.27	2,4-dinitrotoluene (121-14-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.28	2,6-dinitrotoluene (606-20-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.29	Di-n-octyl phthalate (117-84-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.31	Fluoranthene (206-44-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						
4.32	Fluorene (86-73-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
					Mass						

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**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))<sup>1</sup>**

	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.34	Hexachlorobutadiene (87-68-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.35	Hexachlorocyclopentadiene (77-47-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.36	Hexachloroethane (67-72-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.38	Isophorone (78-59-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.39	Naphthalene (91-20-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.40	Nitrobenzene (98-95-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.41	N-nitrosodimethylamine (62-75-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.42	N-nitrosodi-n-propylamine (621-64-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.43	N-nitrosodiphenylamine (86-30-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.44	Phenanthrene (85-01-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4.45	Pyrene (129-00-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						

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

	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
<b>Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)</b>												
5.1	Aldrin (309-00-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.2	α-BHC (319-84-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.3	β-BHC (319-85-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.4	γ-BHC (58-89-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.5	δ-BHC (319-86-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.6	Chlordane (57-74-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.7	4,4'-DDT (50-29-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.8	4,4'-DDE (72-55-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.9	4,4'-DDD (72-54-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.10	Dieldrin (60-57-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							
5.11	α-endosulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							

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TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))											
	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.13	Endosulfan sulfate (1031-07-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.14	Endrin (72-20-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.15	Endrin aldehyde (7421-93-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.16	Heptachlor (76-44-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.17	Heptachlor epoxide (1024-57-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.18	PCB-1242 (53469-21-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.19	PCB-1254 (11097-69-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.20	PCB-1221 (11104-28-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.21	PCB-1232 (11141-16-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.22	PCB-1248 (12672-29-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.23	PCB-1260 (11096-82-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5.24	PCB-1016 (12674-11-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						

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

	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass							

<sup>1</sup> 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 C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi)) <sup>1</sup>									
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
<input type="checkbox"/> Check here if you believe all pollutants on Table C to be <b>present</b> in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
<input type="checkbox"/> Check here if you believe all pollutants on Table C to be <b>absent</b> in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
1. Bromide (24959-87-9)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
2. Chlorine, total residual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
3. Color	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
4. Fecal coliform	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
5. Fluoride (16984-48-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
6. Nitrate-nitrite	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
7. Nitrogen, total organic (as N)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
8. Oil and grease	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Concentration Mass	mg/L	37.7	37.7	6.8	49	
9. Phosphorus (as P), total (7723-14-0)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
10. Sulfate (as SO <sub>4</sub> ) (14808-79-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						
11. Sulfide (as S)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration Mass						



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**TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))<sup>1</sup>**

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 <sub>3</sub> ) (14265-45-3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
13. Surfactants	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
14. Aluminum, total (7429-90-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
15. Barium, total (7440-39-3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
16. Boron, total (7440-42-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
17. Cobalt, total (7440-48-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
18. Iron, total (7439-89-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
19. Magnesium, total (7439-95-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
20. Molybdenum, total (7439-98-7)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
21. Manganese, total (7439-96-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
22. Tin, total (7440-31-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
23. Titanium, total (7440-32-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						

EPA Identification Number 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.	Outfall Number DSN002
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TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi)) <sup>1</sup>									
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	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
Beta, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
Radium, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						
Radium 226, total	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Concentration						
			Mass						

<sup>1</sup> 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 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.	Outfall Number DSN002
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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))<sup>1</sup>**

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

EPA Identification Number 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.	Outfall Number DSND02
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Form Approved 03/05/19  
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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) <sup>1</sup>					
	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)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
21.	Diazinon	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
22.	Dicamba	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
23.	Dichlobenil	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
24.	Dichlone	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
25.	2,2-dichloropropionic acid	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
26.	Dichlorvos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
27.	Diethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
28.	Dimethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
29.	Dinitrobenzene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
30.	Diquat	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
31.	Disulfoton	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
32.	Diuron	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
33.	Epichlorohydrin	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
34.	Ethion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
35.	Ethylene diamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
36.	Ethylene dibromide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
37.	Formaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
38.	Furfural	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

EPA Identification Number 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.	Outfall Number DSN002
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Form Approved 03/05/19  
OMB No. 2040-0064

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) <sup>1</sup>					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present In Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
40.	Isoprene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
41.	Isopropanolamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
42.	Kelthane	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
43.	Kepon	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
44.	Malathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
45.	Mercaptodimethur	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
46.	Methoxychlor	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
47.	Methyl mercaptan	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
48.	Methyl methacrylate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
49.	Methyl parathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
50.	Mevinphos	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
51.	Mexacarbate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
52.	Monocethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
53.	Monomethyl amine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
54.	Naled	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
55.	Naphthenic acid	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
56.	Nitrotoluene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
57.	Parathion	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

EPA Identification Number 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.	Outfall Number DSN002
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OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) <sup>1</sup>					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
59.	Phosgene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
60.	Propargite	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
61.	Propylene oxide	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
62.	Pyrethrins	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
63.	Quinoline	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
64.	Resorcinol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
65.	Strontium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
66.	Strychnine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
67.	Styrene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
69.	TDE (tetrachlorodiphenyl ethane)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
71.	Trichlorofon	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
72.	Triethanolamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
73.	Triethylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
74.	Trimethylamine	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
75.	Uranium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
76.	Vanadium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		



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TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) <sup>1</sup>					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
78.	Xylene	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
79.	Xylenol	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
80.	Zirconium	<input type="checkbox"/>	<input checked="" type="checkbox"/>		

<sup>1</sup> 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).

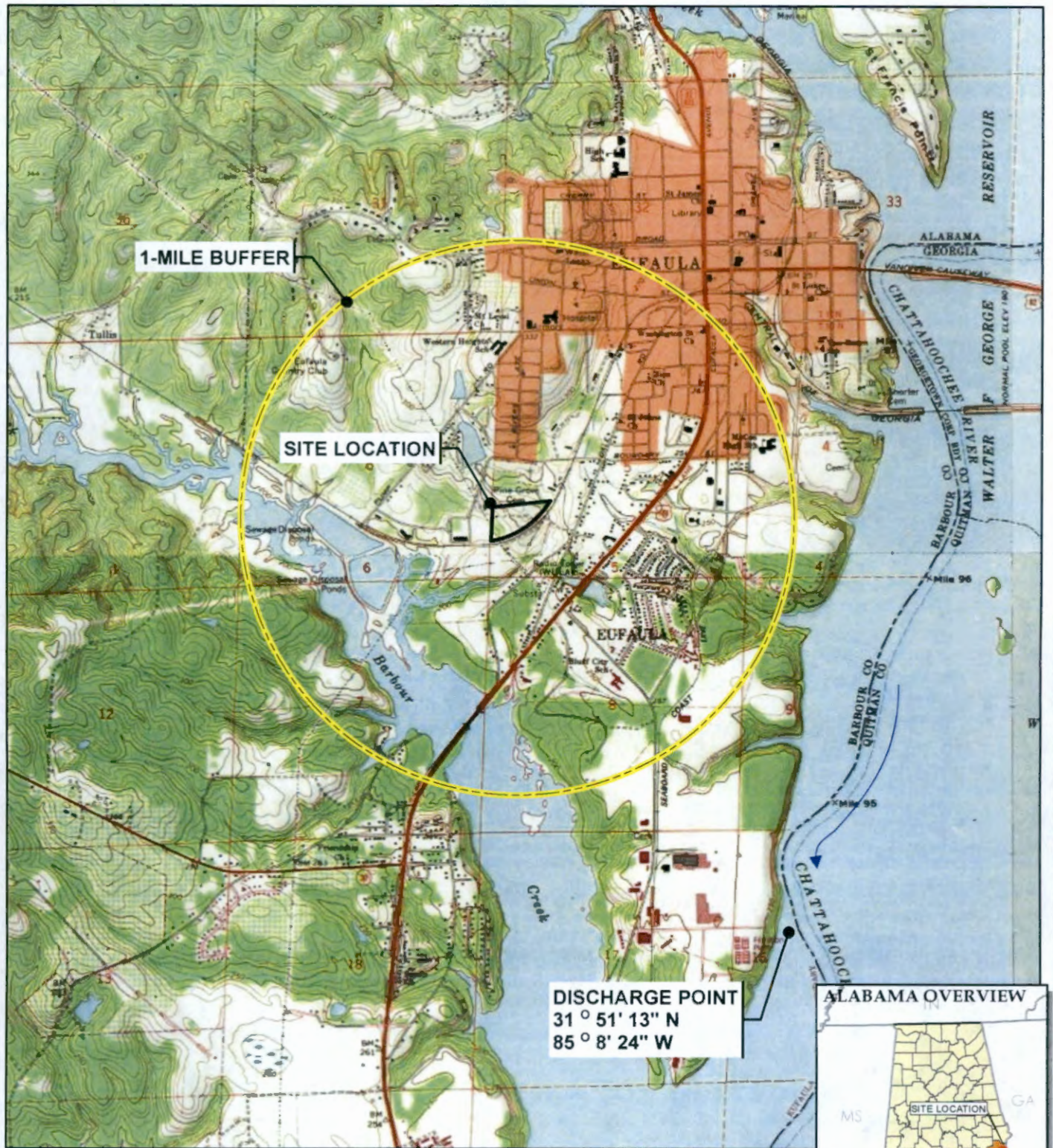
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EPA Identification Number 110000790047	NPDES Permit Number AL0082643	Facility Name CARBO Ceramics Inc.	Outfall Number DSN002
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TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))				
Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	





BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES, EUFAULA NORTH (1968).



**TRC**  
 230 West Monroe St.  
 Suite 630  
 Chicago, IL 60606  
 Phone: 312.578.0870

TRC - GIS

PROJECT: **CARBO CERAMICS INC.**  
**36 ARCH DRIVE**  
**EUFAULA, ALABAMA**

TITLE: **WORKING COPY**  
**SITE LOCATION MAP**

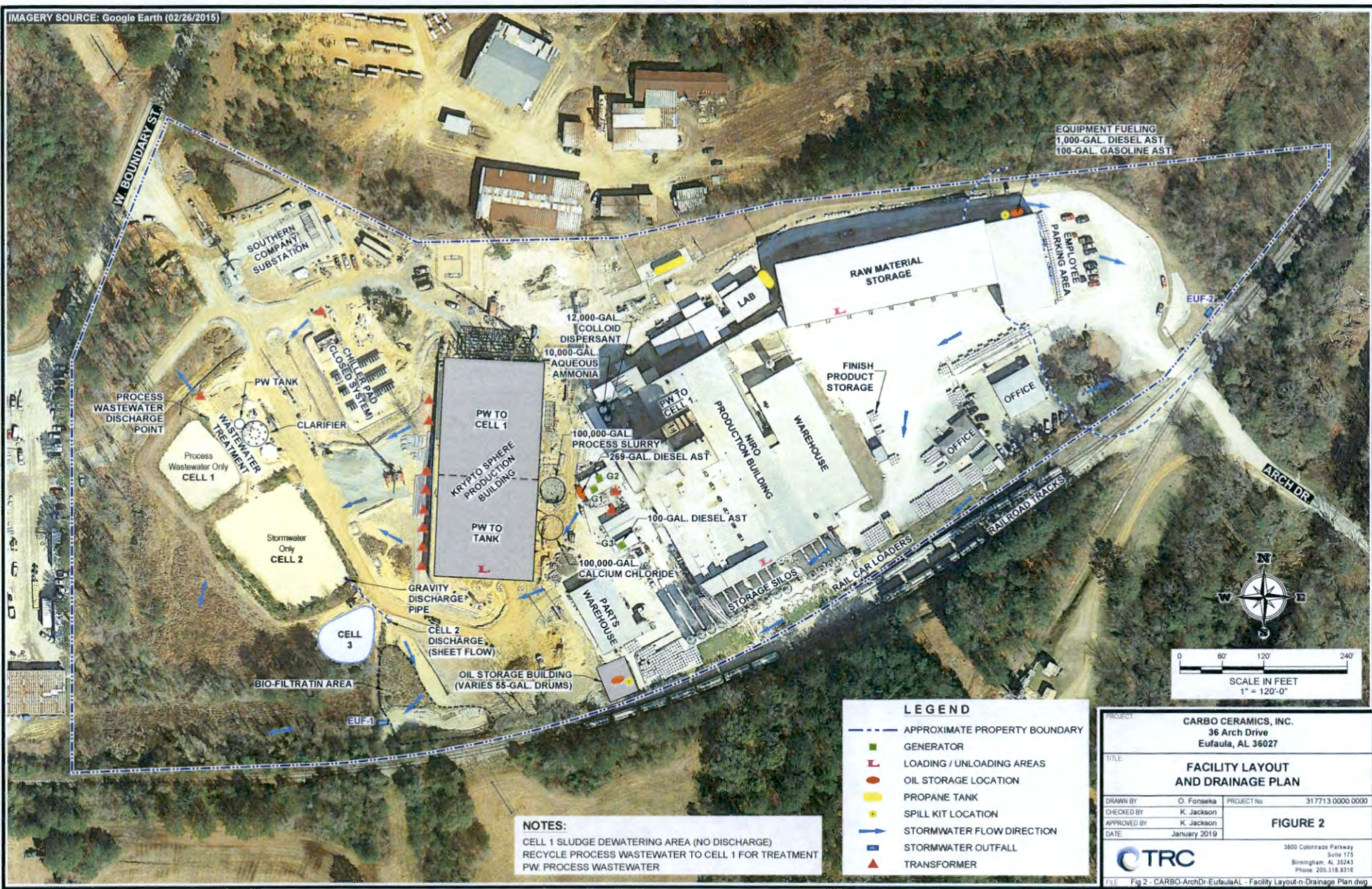
DRAWN BY:	S. MAJOR
CHECKED BY:	
APPROVED BY:	
DATE:	FEBRUARY 2020
PROJ. NO.:	376202
FILE:	376202-001slm.mxd

**FIGURE 1**



IMAGERY SOURCE: Google Earth (02/26/2015)

H:\M\CAD\TRC\DRAWING\CLIENT\Name-A-B-C-D-E\Alabama-PROJECTS\Carbo Ceramics\Arch Drive - Eufaula-AL - Fig 2 - CARBO-ARCHDR-Eufaula-AL - Facility Layout-n-Drainage Plan.dwg 01/07/19



**NOTES:**  
 CELL 1 SLUDGE DEWATERING AREA (NO DISCHARGE)  
 RECYCLE PROCESS WASTEWATER TO CELL 1 FOR TREATMENT  
 PW PROCESS WASTEWATER

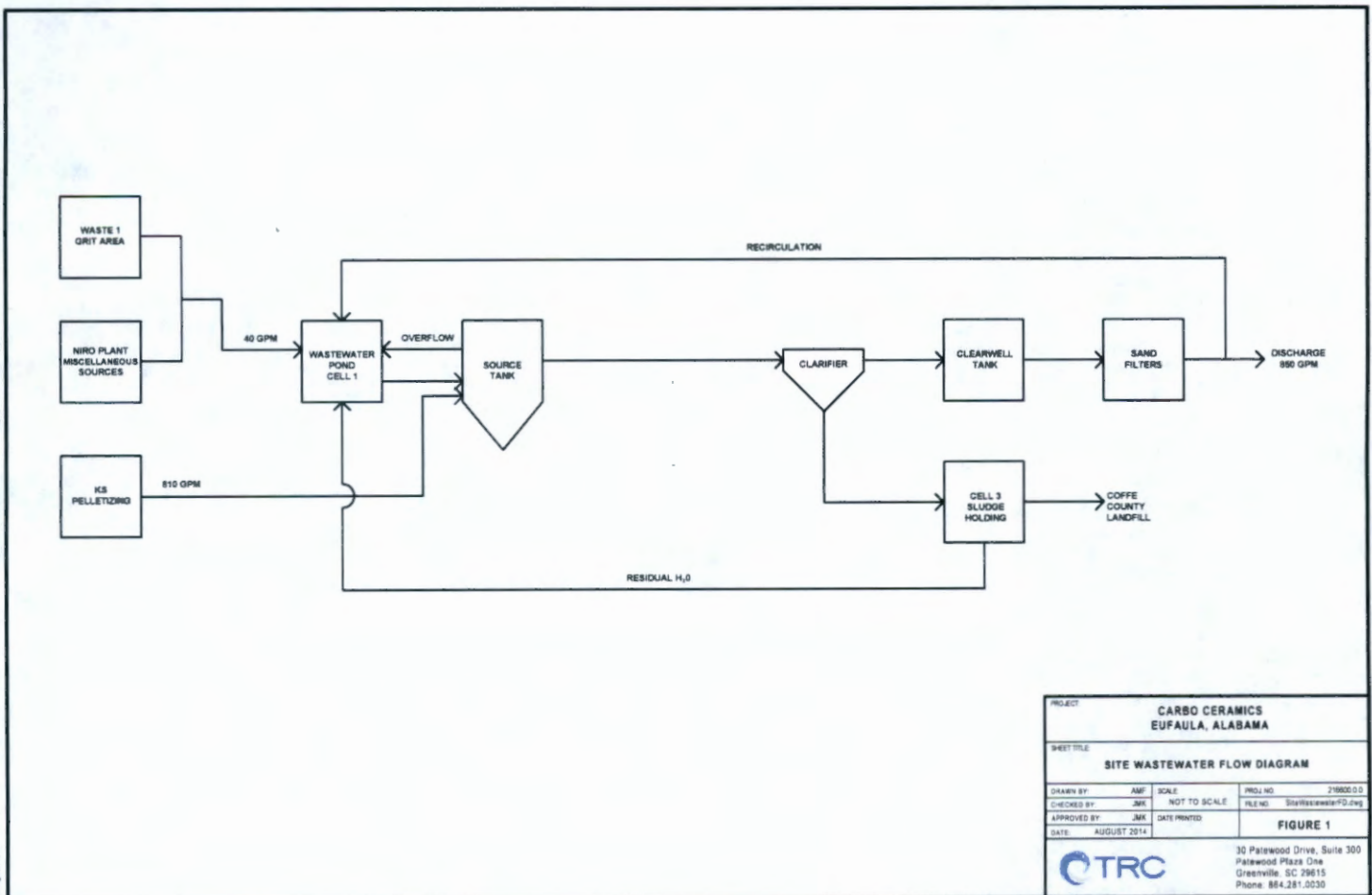
- LEGEND**
- APPROXIMATE PROPERTY BOUNDARY
  - GENERATOR
  - ▭ LOADING / UNLOADING AREAS
  - OIL STORAGE LOCATION
  - PROPANE TANK
  - SPILL KIT LOCATION
  - ➔ STORMWATER FLOW DIRECTION
  - ➔ STORMWATER OUTFALL
  - ▲ TRANSFORMER



PROJECT		CARBO CERAMICS, INC. 36 Arch Drive Eufaula, AL 36027	
TITLE			
<b>FACILITY LAYOUT AND DRAINAGE PLAN</b>		<b>FIGURE 2</b>	
DRAWN BY	O. Fonseca	PROJECT No.	317713.0000.0000
CHECKED BY	K. Jackson		
APPROVED BY	K. Jackson		
DATE	January 2019		
		3800 Colonnade Parkway Suite 175 Birmingham, AL 35243 Phone 205.518.9316	
FILE Fig 2 - CARBO-ArchDr-EufaulaAL - Facility Layout-n-Drainage Plan.dwg			



21/08/2014  
 Operator Name: PERELES, AMP  
 Drawing File Name: 210808Carbo Ceramics Eufaula SC Water Treatment Plant.dwg  
 Date: 08/08/2014  
 Time: 9:47 AM  
 Plot Date: Friday, 08/08/2014  
 Plot Time: 9:47 AM  
 User: Administrator  
 Layer:



PROJECT			
CARBO CERAMICS EUFULA, ALABAMA			
SHEET TITLE			
SITE WASTEWATER FLOW DIAGRAM			
DRAWN BY:	AMP	SCALE:	NOT TO SCALE
CHECKED BY:	JMK	PROJ. NO.:	210808000
APPROVED BY:	JMK	FILE NO.:	SiteWwtrFlow.dwg
DATE:	AUGUST 2014	DATE PRINTED:	FIGURE 1
		30 Patawood Drive, Suite 300 Patawood Plaza One Greenville, SC 29615 Phone: 864.281.0030	