LANCE R. LEFLEUR
DIRECTOR

KAY IVEY
GOVERNOR

Alabama Department of Environmental Management
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Montgomery, Alabama 36130-1463
(334) 271-7700 ▪ FAX (334) 271-7950

NOVEMBER 3, 2020

MR TIGER LAMBERT
REPRESENTATIVE OF THE COMPANY
BLUESTONE COKE, LLC
3500 35TH AVENUE NORTH
BIRMINGHAM AL 35207

RE: DRAFT PERMIT
NPDES PERMIT NUMBER AL0003247

Dear Mr. Lambert:

Transmitted herein is a 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 Alex Chavers by e-mail at **adchavers@adem.alabama.gov** or by phone at **(334) 271-7851.**

Sincerely,

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

ADEM
Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: BLUESTONE COKE, LLC

FACILITY LOCATION: 3500 35TH AVENUE NORTH
BIRMINGHAM, AL 35207

PERMIT NUMBER: AL0003247

RECEIVING WATERS: DSN001: FIVE MILE 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:

Draft

Alabama Department of Environmental Management

INDUSTRIAL SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

TABLE OF CONTENTS

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:

DSN0011: Wastewater from DSN01B, non-contact cooling water, boiler blowdown, dust control and coal pile runoff, and stormwater from plant areas 3/

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

	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Oxygen, Dissolved (DO)	-	-	5.0 mg/l	-	-	Weekly	Grab	-
pH	-	-	6.0 S.U.	-	8.5 S.U.	Daily	Grab	-
Solids, Total Suspended	713 lbs/day	1215 lbs/day	-	-	-	Weekly	Composite	-
Oil & Grease	-	-	-	10 mg/l	15 mg/l	Monthly	Grab	-
Nitrogen, Ammonia Total (As N)	-	-	-	2.5 mg/l	3.75 mg/l	Weekly	Composite	December - April
Nitrogen, Ammonia Total (As N)	-	-	-	0.75 mg/l	1.12 mg/l	Weekly	Composite	May - November
Nitrogen, Kjeldahl Total (As N)	394 lbs/day	591 lbs/day	-	10 mg/l	15 mg/l	Weekly	Composite	December - April
Nitrogen, Kjeldahl Total (As N)	117 lbs/day	175.5 lbs/day	-	2.96 mg/l	4.44 mg/l	Weekly	Composite	May - November

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:

DSN0011 (continued): Wastewater from DSN01B, non-contact cooling water, boiler blowdown, dust control and coal pile runoff, and stormwater from plant areas 3/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Nitrite Plus Nitrate Total 1 Det. (As N)	-	-	-	-	REPORT mg/l	Monthly	Composite	-
Phosphorus, Total (As P)	-	-	-	-	REPORT mg/l	Monthly	Composite	-
Selenium, Total Recoverable 4/	-	-	-	7.54 ug/l	25.771 ug/l	Monthly	Composite	-
Copper, Total Recoverable 4/	-	-	-	-	45.318 ug/l	Weekly	Composite	-
Benzo (A) Pyrene	-	-	-	0.0480 ug/l	0.960 ug/l	Weekly	Grab	-
Naphthalene	-	-	-	-	REPORT mg/l	Monthly	Grab	-
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	-
Cyanide, Free Available 5/	-	-	-	6.177 ug/l	27.76 ug/l	Weekly	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/ For purposes of compliance with this permit, "Total" and "Total Recoverable shall be considered equivalent.

5/ Available Cyanide is defined as free and weakly-complexed cyanide.

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:

DSN0011 (continued): Wastewater from DSN01B, non-contact cooling water, boiler blowdown, dust control and coal pile runoff, and stormwater from plant areas 3/

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

	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
BOD, Carbonaceous 05 Day, 20C	657 lbs/day	985 lbs/day	-	16.65 mg/l	24.97 mg/l	2X Weekly	Composite	December - April
BOD, Carbonaceous 05 Day, 20C	254 lbs/day	381 lbs/day	-	6.43 mg/l	9.64 mg/l	2X Weekly	Composite	May - November

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:

DSN001S: Wastewater from DSN01B, non-contact cooling water, boiler blowdown, dust control and coal pile runoff, and stormwater from plant areas 3/

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

	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Solids, Total Dissolved	-	-	-	-	REPORT mg/l	Semi-Annually	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:

DSN001T: Wastewater from DSN01B, non-contact cooling water, boiler blowdown, dust control and coal pile runoff, and stormwater from plant areas 3/

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

	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Toxicity, Ceriodaphnia Chronic	-	0 pass(0)/fail(1)	-	-	-	Quarterly	Composite	-
Toxicity, Pimephales Chronic	-	0 pass(0)/fail(1)	-	-	-	Quarterly	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.

4/ See Part IV.B for Effluent 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:

DSN01B1: Process wastewater from the coke-plant, by-products plant, and steam traps, process area stormwater, sanitary wastewater, and sanitary wastewater. 3/ 4/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
pH	-	-	6.0 S.U.	-	9.0 S.U.	Daily	Grab	-
Solids, Total Suspended	410.1 lbs/day	793.4 lbs/day	-	-	-	Weekly	Composite	-
Nitrogen, Ammonia Total (As N)	6.53 lbs/day	9.47 lbs/day	-	-	-	Weekly	Composite	-
Cyanide, Total (As CN)	6.72 lbs/day	9.6 lbs/day	-	-	-	Weekly	Grab	-
Oil and Grease	34.82 lbs/day	103.34 lbs/day	-	-	-	Weekly	Grab	-
Phenols 5/	0.08 lbs/day	0.12 lbs/day	-	-	-	Weekly	Grab	-
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.

4/ Tier I will be utilized until cokemaking production exceeds 2,899,311 lbs/day.

5/ Measure as 4 amino-antipyrene (4AAP).

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:

DSN01B2: Process wastewater from the coke-plant, by-products plant, and steam traps, process area stormwater, sanitary wastewater, and sanitary wastewater. 3/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
pH	-	-	6.0 S.U.	-	9.0 S.U.	Daily	Grab	-
Solids, Total Suspended	411.8 lbs/day	797.4 lbs/day	-	-	-	Weekly	Composite	-
Nitrogen, Ammonia Total (As N)	6.8 lbs/day	9.8 lbs/day	-	-	-	Weekly	Composite	-
Cyanide, Total (As CN)	6.96 lbs/day	9.94 lbs/day	-	-	-	Weekly	Grab	-
Oil and Grease	35.3 lbs/day	104.1 lbs/day	-	-	-	Weekly	Grab	-
Phenols 5/	0.08 lbs/day	0.13 lbs/day	-	-	-	Weekly	Grab	-
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.

4/ Tier II will be utilized after cokemaking product exceeds 2,899,311 lbs/day and until cokemaking production reaches 3,013,611 lbs/day.

5/ Measure as 4 amino-antipyrene (4AAP).

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:

DSN01B3: Process wastewater from the coke-plant, by-products plant, and steam traps, process area stormwater, and sanitary wastewater. 3/

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

	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
pH	-	-	6.0 S.U.	-	9.0 S.U.	Daily	Grab	-
Solids, Total Suspended	415.4 lbs/day	806.4 lbs/day	-	-	-	Weekly	Composite	-
Nitrogen, Ammonia Total (As N)	7.3 lbs/day	10.6 lbs/day	-	-	-	Weekly	Composite	-
Cyanide, Total (As CN)	7.5 lbs/day	10.7 lbs/day	-	-	-	Weekly	Grab	-
Oil and Grease	36.2 lbs/day	105.9 lbs/day	-	-	-	Weekly	Grab	-
Phenols 5/	0.09 lbs/day	0.14 lbs/day	-	-	-	Weekly	Grab	-
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.

4/ Tier III will be utilized until coke making production exceeds 3,013,611 lbs/day.

5/ Measure as 4 amino-antipyrene (4AAP).

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:

DSN1B1Q: Process wastewater from the coke-plant, by-products plant, and steam traps, process area stormwater, and sanitary wastewater. 3/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Benzo (A) Pyrene	0.020 lbs/day	0.036 lbs/day	-	-	-	Twice/Quarter	Grab	-
Naphthalene	0.020 lbs/day	0.036 lbs/day	-	-	-	Twice/Quarter	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/ Tier I will be utilized until cokemaking production exceeds 2,899,311 lbs/day.

5/ To be monitored twice per quarter during the same month. Sampling events shall be at least 10 days apart.

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:

DSN1B2Q: Process wastewater from the coke-plant, by-products plant, and steam traps, process area stormwater, and sanitary wastewater. 3/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Benzo (A) Pyrene	0.021 lbs/day	0.037 lbs/day	-	-	-	Twice/Quarter	Grab	-
Naphthalene	0.021 lbs/day	0.037 lbs/day	-	-	-	Twice/Quarter	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/ Tier II will be utilized after cokemaking production exceeds 2,899,311 lbs/day and until cokemaking production reaches 3,013,611 lbs/day.

5/ To be monitored twice per quarter during the same month. Sampling events shall be at least 10 days apart.

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:

DSN1B3Q: Process wastewater from the coke-plant, by-products plant, and steam traps, process area stormwater, sanitary wastewater, and sanitary wastewater. 3/

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

	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Benzo (A) Pyrene	0.02 lbs/day	0.04 lbs/day	-	-	-	Twice/Quarter	Grab	-
Naphthalene	0.02 lbs/day	0.04 lbs/day	-	-	-	Twice/Quarter	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/ Tier III will be utilized until cokemaking production exceeds 3,013,611 lbs/day.

5/ To be monitored twice per quarter during the same month. Sampling events shall be at least 10 days apart.

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 28th 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 335-6-5-.14 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-5-.14 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 duriug 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:

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. COOLING WATER INTAKE STRUCTURE (CWIS) REQUIREMENTS

1. The entity providing water to the permittee is a public water system in accordance with Section 1401 of the Safe Drinking Water Act or the water used for cooling consists of effluent, which would otherwise be discharged; therefore, the permittee is exempt from this permit condition.

D. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS

2. The permittee shall perform short-term chronic toxicity tests on the wastewater discharges required to be tested for chronic toxicity by Part I of this permit.

   a. Test Requirements - Definitive

      (1) The effluent shall be tested with appropriate replicates of 61% effluent, a control and a minimum of four serial dilutions of 16%, 31%, 81%, and 100% effluent.

      (2) Noncompliance with the toxicity limit will be demonstrated if the IC_{25} (Inhibition Concentration) for reproduction or growth is less than the IWC. The average reproduction for Ceriodaphnia shall be calculated by dividing the total number of live Ceriodaphnia young in each concentration by the total number of organisms used to initiate that concentration; the average growth for the fathead minnows shall be calculated by dividing the total weight of the surviving minnow larvae in each replicated by the total number of organisms used to initiate that replicate.

   b. General Test Requirements

      (1) A minimum of three (3) 24-hour composite samples shall be obtained for use in the above biomonitoring tests and collected every other day so that the laboratory receives water samples on the first, third, and fifth day of the seven-day test period. The holding time for each composite 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-02-013 or the most current edition or another control water selected by the permittee and approved by the Department.

      (2) Effluent toxicity tests in which the control survival is less than 80%, P. promelas dry weight per surviving control organism is less than 0.25 mg, Ceriodaphnia number of young per surviving control organism is less than 15, Ceriodaphnia reproduction where less than 60% of surviving control females produce three broods 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.

      (3) 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 chronic toxicity is indicated (noncompliance with permit limit), the permittee shall perform two additional valid chronic toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall run consecutively beginning on the first calendar week 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/600/R-91-003, EPA/600/R-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 Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms". The Larval Survival and Growth Test, Methods 1000.0, shall be used for the fathead minnow (*Pimephales promelas*) test and the Survival and Reproduction Test, Method 1002.0, shall be used for the cladoceran (*Ceriodaphnia dubia*) test.

3. 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 these requirements or may decrease or increase 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 Operation

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

(2) Volume of discharge during sample collection to include Mean daily discharge on sample collection dates (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) Lapsed time from sample collection to delivery
(f) Lapsed time from sample collection to test initiation
(g) Sample temperature when received at the laboratory

(2) Dilution Water

(a) Source
(b) Collection/preparation date(s) and time(s)
(c) Pretreatment (if applicable)

(d) Physical and chemical characteristics (water temperature, pH, alkalinity, hardness, 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) Specify if aeration was needed

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

(13) Specify if (and how) pH control measures were implemented

(14) Light intensity (mean)

e. Test Organisms

(1) Scientific name

(2) Life stage and age

(3) Source

(4) Disease(s) treatment (if applicable)

f. Quality Assurance

(1) Reference toxicant utilized and source

(2) Date and time of most recent chronic reference toxicant test(s), raw data and current control chart(s). The most recent chronic reference toxicant test shall be conducted within 30 days of the routine.

(3) Dilution water utilized in reference toxicant test

(4) Results of reference toxicant test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration response relationship and evaluate test sensitivity

(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: NOECs, IC25s, PASS/FAIL, etc. (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) (NOEC, IC25, PASS/FAIL, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD) calculated for sub-lethal endpoints determined by hypothesis testing.

h. Conclusions and Recommendations

(1) Relationship between test endpoints and permit limits

(2) Actions to be taken

g. Conclusions and Recommendations

(1) Relationship between test endpoints and permit limits

(2) Actions to be taken

1/ Adapted from "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms", Fourth Edition, October 2002 (EPA 821-R-02-013), Section 10, Report Preparation

ADEM PERMIT RATIONALE

PREPARED DATE: July 30, 2020
PREPARED BY: Alex Chavers
REVISED DATE: October 30, 2020

Permittee Name:	Bluestone Coke, LLC
Facility Name:	Bluestone Coke, LLC
Permit Number:	AL0003247

PERMIT IS REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS & DESCRIPTIONS:

DSN001:	Wastewater from DSN01B, non-contact cooling water, boiler blowdown, dust control and coal pile runoff, and stormwater from plant areas.
DSN01B:	Process wastewater from the coke-plant, by-products plant, and steam traps, process area stormwater, and sanitary wastewater

INDUSTRIAL CATEGORY: 40 CFR 420 – Iron and Steel Manufacturing: Subpart A - Cokemaking

MAJOR: Y

STREAM INFORMATION:

Receiving Stream:	Five Mile Creek
Classification:	Fish & Wildlife
River Basin:	Black Warrior River
7Q10:	6.27 CFS
7Q2:	7.7 CFS
1Q10:	4.7 CFS
Annual Average Flow:	46.56 CFS
303(d) List:	NO[1]
Impairment[1]:	Ammonia, Benzo(a)pyrene (PAHs), CBOD, Cyanide, Zinc
TMDL:	NO[2]

1) Five Mile Creek is a Category 4b receiving water. The water is not listed on the 2020 303(d) List of Impaired Waters; however, an impairment exists for the parameters listed.
2) The receiving stream is located in the Locust Fork watershed, which has a TMDL for Nutrients.

DISCUSSION:
The facility manufactures coke and coke by-products. Previously, the facility operated a mineral wool fiber plant; however, these operations were ceased in 2009. In addition, the facility previously received wastewater from the US Pipe metal molding and casting facility; however, this was shutdown with the last discharge recorded in November 2011.

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.

0011:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
Oxygen, Dissolved (DO)	-	-	5.0 mg/l	-	-	Weekly	Grab	WQBEL
pH	-	-	6.0 S.U.	-	8.5 S.U.	Daily	Grab	WQBEL
Solids, Total Suspended	713 lbs/day	1215 lbs/day	-	-	-	Weekly	Composite	EGL/BPJ
Oil & Grease	-	-	-	10 mg/l	15 mg/l	Monthly	Grab	BPJ
Nitrogen, Ammonia Total (As N)	-	-	-	2.5 mg/l	3.75 mg/l	Weekly	Composite	WQBEL
Nitrogen, Ammonia Total (As N)	-	-	-	0.75 mg/l	1.12 mg/l	Weekly	Composite	WQBEL
Nitrogen, Kjeldahl Total (As N)	394 lbs/day	591 lbs/day	-	10.0 mg/l	15.0 mg/l	Weekly	Composite	WQBEL
Nitrogen, Kjeldahl Total (As N)	117 lbs/day	175.5 lbs/day	-	2.96 mg/l	4.44 mg/l	Weekly	Composite	WQBEL
Nitrite Plus Nitrate Total 1 Det. (As N)	-	-	-	-	REPORT mg/l	Monthly	Composite	BPJ
Phosphorus, Total (As P)	-	-	-	0.25 mg/l	-	Monthly	Composite	BPJ
Copper, Total Recoverable	-	-	-	-	45.318 ug/l	Monthly	Composite	WQBEL
Selenium, Total Recoverable (As Se)	-	-	-	7.54 ug/l	25.771 ug/l	Monthly	Composite	WQBEL
Benzo (A) Pyrene	-	-	-	0.0480 ug/l	0.0960 ug/l	Monthly	Grab	WQBEL
Naphthalene	-	-	-	-	REPORT mg/l	Monthly	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	BPJ
Cyanide, Free Available	-	-	-	6.177 ug/l	27.76 ug/l	Weekly	Grab	WQBEL
BOD, Carbonaceous 05 Day, 20C	657 lbs/day	985 lbs/day	-	16.65 mg/l	24.97 mg/l	Weekly	Composite	WQBEL
BOD, Carbonaceous 05 Day, 20C	254 lbs/day	381 lbs/day	-	6.43 mg/l	9.64 mg/l	Weekly	Composite	WQBEL

001S:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
Solids, Total Dissolved	-	-	-	-	REPORT mg/l	Semi-Annually	Composite	BPJ

001T:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
Toxicity, Ceriodaphnia Chronic	-	0 pass(0)/fail(1)	-	-	-	Quarterly	Composite	WQBEL
Toxicity, Pimephales Chronic	-	0 pass(0)/fail(1)	-	-	-	Quarterly	Composite	WQBEL

01B1:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
pH	-	-	6.0 S.U.	-	9.0 S.U.	Daily	Grab	EGL
Solids, Total Suspended	384.6 lbs/day	745.2 lbs/day	-	-	-	Weekly	Composite	EGL
Nitrogen, Ammonia Total (As N)	6.54 lbs/day	9.49 lbs/day	-	-	-	Weekly	Composite	EGL
Cyanide, Total (As CN)	6.74 lbs/day	9.62 lbs/day	-	-	-	Weekly	Grab	EGL
Oil and Grease	32.8 lbs/day	97.1 lbs/day	-	-	-	Weekly	Grab	EGL
Phenols	0.077 lbs/day	0.123 lbs/day	-	-	-	Weekly	Grab	EGL
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	BPJ
Production	REPORT lbs/day	-	-	-	-	Daily	Calculated	BPJ

01B2:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
pH	-	-	6.0 S.U.	-	9.0 S.U.	Daily	Grab	EGL
Solids, Total Suspended	399.5 lbs/day	774.1 lbs/day	-	-	-	Weekly	Composite	EGL
Nitrogen, Ammonia Total (As N)	6.77 lbs/day	9.83 lbs/day	-	-	-	Weekly	Composite	EGL
Cyanide, Total (As CN)	6.97 lbs/day	9.96 lbs/day	-	-	-	Weekly	Grab	EGL
Oil and Grease	34.09 lbs/day	100.85 lbs/day	-	-	-	Weekly	Grab	EGL
Phenols	0.080 lbs/day	0.128 lbs/day	-	-	-	Weekly	Grab	EGL
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	BPJ
Production	REPORT lbs/day	-	-	-	-	Daily	Calculated	BPJ

01B3:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
pH	-	-	6.0 S.U.	-	9.0 S.U.	Daily	Grab	EGL
Solids, Total Suspended	433.8 lbs/day	840.4 lbs/day	-	-	-	Weekly	Composite	EGL
Nitrogen, Ammonia Total (As N)	7.30 lbs/day	10.59 lbs/day	-	-	-	Weekly	Composite	EGL
Cyanide, Total (As CN)	7.52 lbs/day	10.74 lbs/day	-	-	-	Weekly	Grab	EGL
Oil and Grease	36.95 lbs/day	109.42 lbs/day	-	-	-	Weekly	Grab	EGL
Phenols	0.086 lbs/day	0.138 lbs/day	-	-	-	Weekly	Grab	EGL

Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	BPJ
Production	REPORT lbs/day	-	-	-	-	Daily	Calculated	BPJ

1B1Q:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
Benzo (A) Pyrene	0.020 lbs/day	0.036 lbs/day	-	-	-	Twice/Quarter	Grab	EGL
Naphthalene	0.020 lbs/day	0.036 lbs/day	-	-	-	Twice/Quarter	Grab	EGL

1B2Q:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
Benzo (A) Pyrene	0.021 lbs/day	0.037 lbs/day	-	-	-	Twice/Quarter	Grab	EGL
Naphthalene	0.021 lbs/day	0.037 lbs/day	-	-	-	Twice/Quarter	Grab	EGL

1B3Q:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
Benzo (A) Pyrene	0.022 lbs/day	0.040 lbs/day	-	-	-	Twice/Quarter	Grab	EGL
Naphthalene	0.022 lbs/day	0.040 lbs/day	-	-	-	Twice/Quarter	Grab	EGL

*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 permit for Walter Coke has historically been a production-based tiered permit. The permit consists of three tiers that allow for fluctuations in market conditions, which can greatly affect the mass-based effluent guidelines that regulate the facility.

Designation	Effluent Guideline Production Basis	Tier Applicability Criteria
Tier 1	2,899,311 lbs/day	Less than or equal to 2,899,311 lbs/day
Tier 2	3,013,611 lbs/day	Greater than 2,899,311 lbs/day but less than or equal to 3,013,611 lbs/day
Tier 3	3,275,573 lbs/day	Greater than 3,013, 611 lbs/day

Tier 1's production is based on the max production at the facility under recent market conditions. Tier 2 is based on a shift in market conditions that increases production toward furnace coke over foundry coke (82% furnace, 18% foundry). Tier 3 is based on a shift in the market conditions that would require the facility to produce only furnace coke.

In addition, a water quality model and reasonable potential analysis were performed to determine if more stringent limitations were necessary to prevent the facility from violating water quality standards.

DSN01B: *Process wastewater from the coke-plant, by-products plant, and steam traps, process area stormwater, sanitary wastewater, and groundwater from Arichem, LLC*

*Because DSN01B is an internal monitoring point, limitations will be based on the most stringent of the BPT/BAT/BCT effluent guidelines found at 40 CFR 420: Iron and Steel Manufacturing – Subpart A: Cokemaking. Water quality limitations, as necessary, will be applied at the final outfall, DSN001.

**Unless otherwise noted, the monitoring frequencies from the previous permit issuance will be continued in this permit issuance. See footnotes in Part I.A for further requirements.

Best Professional Judgment
These parameters do not have applicable effluent guidelines; however, due to the nature of the discharge, monitoring and/or limitations are necessary to ensure the discharge does not adversely affect water quality.

Flow
Flow will continue to be monitored daily.

Federal Effluent Guideline Limitations (EGL)
Parameters based upon EGL have had effluent guidelines established under 40 CFR 420 Subpart A. Effluent guideline calculations can be seen in Attachment A.

pH
This parameter, regulated under 40 CFR 420.12(a) and 40 CFR 420.17(a), will have limitations of 6.0 and 9.0 for the daily minimum and daily maximum values, respectively and will continue to be monitored daily.

Nitrogen, Ammonia Total (as N)
This parameter is regulated under 40 CFR 420.13(a). The effluent guideline limitations for each tier were determined using the productions outlined in Attachment A. Additional allocations are provided for stormwater from secondary containment (40 CFR 420.08). The effluent guidelines listed below are the sum of these allocations.

	Tier 1		Tier 2		Tier 3	
	Monthly Average	*Daily Maximum*	*Monthly Average*	*Daily Maximum*	*Monthly Average*	*Daily Maximum*
Effluent Guideline Limitations (ppd)	6.546	9.496	6.777	9.831	7.306	10.598

Phenols
This parameter is regulated under 40 CFR 420.12(a) and 40 CFR 420.13(a). The effluent guideline limitations for each tier were developed using the productions outlined in Attachment A. Additional allocations are provided for stormwater from secondary containment (40 CFR 420.08). The effluent guidelines listed below are the sum of these allocations.

	Tier 1		Tier 2		Tier 3	
	Monthly Average	*Daily Maximum*	*Monthly Average*	*Daily Maximum*	*Monthly Average*	*Daily Maximum*
Effluent Guideline Limitations (ppd)	0.077	0.123	0.080	0.128	0.086	0.138

Naphthalene

This parameter is regulated under 40 CFR 420.12(a) and 40 CFR 420.13(a). The effluent guideline limitations for each tier were developed using the productions outlined in Attachment A. Additional allocations are provided for stormwater from secondary containment (40 CFR 420.08). The effluent guidelines listed below are the sum of these allocations.

	Tier 1		Tier 2		Tier 3	
	Monthly Average	*Daily Maximum*	*Monthly Average*	*Daily Maximum*	*Monthly Average*	*Daily Maximum*
Effluent Guideline Limitations (ppd)	0.020	0.036	0.021	0.037	0.022	0.040

Benzo(a)pyrene

This parameter is regulated under 40 CFR 420.13(a). The effluent guideline limitations for each tier were developed using the productions outlined in Attachment A. Additional allocations are provided for stormwater from secondary containment. The effluent guidelines listed below are the sum of these allocations.

	Tier 1		Tier 2		Tier 3	
	Monthly Average	*Daily Maximum*	*Monthly Average*	*Daily Maximum*	*Monthly Average*	*Daily Maximum*
Effluent Guideline Limitations (ppd)	0.020	0.036	0.021	0.037	0.022	0.040

Oil and Grease

This parameter is regulated under 40 CFR 420.12(a) and 40 CFR 420.17(a). The effluent guideline limitations for each tier were developed using the productions outlined in Attachment A. Additional allocations are provided for stormwater from secondary containment (40 CFR 420.08). The effluent guidelines listed below are the sum of these allocations.

	Tier 1		Tier 2		Tier 3	
	Monthly Average	*Daily Maximum*	*Monthly Average*	*Daily Maximum*	*Monthly Average*	*Daily Maximum*
Effluent Guideline Limitations (ppd)	32.853	97.119	34.099	100.856	36.954	109.422

Total Suspended Solids

This parameter is regulated under 40 CFR 420.12(a) and 40 CFR 420.17(a). The effluent guideline limitations for each tier were developed using the productions outlined in Attachment A. Additional allocations are provided for stormwater from secondary containment (40 CFR 420.08). The effluent guidelines listed below are the sum of these allocations.

	Tier 1		Tier 2		Tier 3	
	Monthly Average	*Daily Maximum*	*Monthly Average*	*Daily Maximum*	*Monthly Average*	*Daily Maximum*
Effluent Guideline Limitations (ppd)	384.6	745.2	399.5	774.1	433.8	840.4

Cyanide, Total

This parameter is regulated under 40 CFR 420.12(a) and 40 CFR 420.13(a). The effluent guideline limitations for each tier were developed using the productions outlined in Attachment A. Additional allocations are provided for stormwater from secondary containment. The effluent guidelines listed below are the sum of these allocations.

	Tier 1		Tier 2		Tier 3	
	Monthly Average	*Daily Maximum*	*Monthly Average*	*Daily Maximum*	*Monthly Average*	*Daily Maximum*
Effluent Guideline Limitations (ppd)	6.741	9.626	6.979	9.966	7.524	10.744

DSN001: *Wastewater from DSN01B, non-contact cooling water, boiler blowdown, dust control and coal pile runoff, and stormwater from plant areas.*

Monitoring Frequencies

Based on a request from the facility and data available to the Department from January 2009 through present date, the monitoring frequencies at DSN001 have been reduced in the following manner: Parameters that required twice per week sampling were reduced to once per week and parameters that required twice per month sampling have been reduced to monthly. These reduced frequencies will still allow the Department to evaluate the facility's discharge and will reduce unnecessary sampling requirements for the facility given their compliance record.

Best Professional Judgment (BPJ)

The parameters of concern for this facility are based on the parameters of concern listed in EPA form 2E and 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:

Flow

Flow monitoring will be continued in this permit issuance.

pH

ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(5)(e)2 – Specific Water Quality for Fish and 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 and 8.5 for the daily minimum and daily maximum, respectively, will be continued in this permit issuance.

Oil & Grease

Based on similar discharges, a daily maximum of 15 mg/L and a monthly average of 10 mg/L will be continued in this permit issuance. This limitation has been shown to prevent sheen and be protective of the receiving stream.

Total Suspended Solids

The limitations for Total Suspended Solids were determined using the allocation from DSN01B in combination with Best Professional Judgment limitations on the additional sources, which include noncontact cooling water and stormwater runoff (Attachment A). The limitations calculated were higher than the current permit limits. Therefore, the current permit limits are proposed to be continued in this permit issuance since the facility has not shown an inability to meet them.

Total Phosphorus, Total Nitrate plus Nitrite

Based on the nutrient monitoring requirements of other similar discharges, monitoring for these parameters will be continued in this permit issuance. The monitoring frequency was changed from 1/Quarter to monthly during the growing season (April – October).

Total Dissolved Solids

Based on the nature of the discharge and the results submitted in Form 2F of the application, this parameter will continue to be monitored on a semi-annual basis. The results from this monitoring can provide useful information the Department regarding the discharge's impact to the receiving stream.

Water Quality Based Effluent Limits (WQBEL)

A water quality model (Attachment C) and a reasonable potential analysis (Attachment B) were performed to determine certain limitations for this permit issuance. For the reasonable potential analysis, analytical data was provided by the facility at a point 30 yards upstream of the discharge. This data is more current than the background data available from Departmental sources (stations FMCJ-1A and FMCJ-1B) and includes the contributions from ABC Coke, which is found 0.68 miles upstream of Walter Coke.

Benzo(a)pyrene

Based on historical data, treatment failures of the process water at DSN01B for this parameter can result in concentrations of this parameter at DSN001 that have the reasonable potential to violate water quality standards for the human health criteria in the receiving stream; therefore, water quality based limitations will be included in this permit issuance. Background in-stream concentrations are determined from the monthly average and daily max contributions of ABC Coke's discharge resulting in ABC Coke and Walter Coke splitting the available allocation in the receiving stream.

Naphthalene
The reasonable potential analysis does not present a reasonable potential for the discharge to violate water quality standards for Naphthalene; however, monitoring for these parameters will be required at DSN001 since it is a regulated parameter under the effluent guidelines.

Total Cyanide, Free Available Cyanide
The facility is required to meet the effluent guideline limitations for Total Cyanide at DSN01B.

The facility submitted analytical data in the final discharge for both Total Cyanide and Free Available Cyanide. For Total Cyanide, a reasonable potential to violate water quality standards was shown; however, for Free Available Cyanide, the facility reported values of "below detection" in the discharge using a detection level of 9.2 ug/L, which did not show a reasonable potential to violate water quality.

The reasonable potential analysis indicates that Available Cyanide values in the discharge of 5.552 ug/L and 1.138 ug/L would have a reasonable potential to violate the acute and chronic water quality standards, respectively. In the absence of monitoring data using a lower detection level, it is proposed to include water quality based effluent limitations for Available Cyanide in this permit issuance.

Arsenic
The reasonable potential analysis shows that there is a reasonable potential for Total Arsenic to violate water quality standards; however, when taking into account the portion of Total Arsenic that is Arsenic III, the analysis does not show a reasonable potential for the discharge to violate water quality standards; therefore, water quality based effluent limitations will not be required for Arsenic at DSN001.

Lead, Zinc
The facility previously received and treated wastewater from US Pipe. Because US Pipe was regulated under the Metals Molding and Casting Category, the facility was required to monitor for these metals to ensure they were not passing through their treatment system to the receiving stream. The facility no longer receives a discharge from US Pipe and the reasonable potential analysis does not indicate the potential for these parameters to violate water quality standards; therefore, monitoring for these parameters will no longer be required in this permit issuance.

Copper
Copper was included in the previous permit issuance based on US Pipe's contribution to the final discharge, which the facility no longer receives and treats; however, analytical data submitted by the facility shows a reasonable potential for Copper in the discharge to violate the acute water quality standards, therefore, water quality based limitations will included in this permit issuance for the daily maximum.

Selenium
The reasonable potential analysis showed that Selenium has the reasonable potential to violate water quality standards for both the acute and chronic criteria; therefore, water quality based effluent limitations will be applied at DSN001 for both the daily maximum and monthly average.

Water Quality Model
In order to maintain a dissolved oxygen level above 5.0 mg/L in the receiving stream during critical conditions, a water quality model was performed to determine the required seasonal limitations for CBOD, Total Ammonia (as Nitrogen), and Total Kjeldahl Nitrogen. The daily maximum limitations were determined by using a multiplier of 1.5 on the monthly average.

Dissolved Oxygen
A daily minimum limitation of 5.0 mg/L for Dissolved Oxygen in the receiving stream is required; therefore, this limitation will be continued in this permit issuance.

	Summer		Winter	
	Monthly Average	*Daily Maximum*	*Monthly Average*	*Daily Maximum*
Carbonaceous Biochemical Oxygen Demand (5-Day)				
Water-Quality Based Limitations (mg/L)	6.43	9.64	16.65	24.97
Water-Quality Based Limitations (lbs/day)	254	381	657	985
Ammonia, Total (as N)*				

Water-Quality Based Limitations (mg/L)	0.75	1.12	2.50	3.75
Total Kjeldahl Nitrogen				
Water Quality Based Limitations (mg/L)	2.96	4.44	10.0	15.0
Water Quality Based Limitations (lbs/day)	117	175.5	395	591

*Ammonia, Total (as N) will not have mass-based limitations at DSN001 because it has more stringent mass-based effluent guideline limitations imposed at DSN01B

Chronic Toxicity (Revised October 30, 2020)

Toxicity monitoring will continue to be monitored monthly to ensure that potential synergistic effects are not harming aquatic life. The IWC is determined by the following equation.

$$IWC^* = \frac{4.73\ MGD}{4.73\ MGD + 0.5 * 6.27} * 100\% = [60.14\%] = 61\%$$

*Due to the close proximity of the discharge to ABC Coke (AL0003417), the IWC is found using a previously agreed upon 50/50 split of the available stream flow.

Definitive toxicity testing will continue to be required quarterly, reduced from the previous monthly frequency requirement. The following table summarizes the dilutions to be used for definitive testing:

Test Requirements	IWC	Serial Dilution 1	Serial Dilution 2 (RWC+100)/2	Serial Dilution 3 (RWC/2)	Serial Dilution 4 (RWC/4)
Definitive	61%	100%	81%	31%	16%

Federal Effluent Guideline Limitations (EGL)

Parameters based upon EGL have had effluent guidelines established under the 40 CFR 420 Subpart A.

303(d) List of Impaired Waters/Total Maximum Daily Load (TMDL)

Category 4b Impairment

The receiving stream is not listed on the 2020 303(d) List of Impaired Waters; however, an impairment exists for Total Ammonia, Benzo(a)pyrene, Carbonaceous BOD (CBOD), Cyanide, and Zinc. An agreement between EPA and the Department uses a TMDL alternative to ensure the stream is attaining its use classification. That agreement, decided during an October 4, 2006 conference call, was that the current permit limits for the known contributing point sources would be sufficient to result in the attainment of water quality standards and the development of a TMDL was not necessary.

The monitoring requirements and limitations in this permit are consistent with, if not more stringent, than the limitations in the permits at the time of that agreement; therefore, no additional requirements are proposed for this permit issuance.

Total Phosphorus

The Locust Fork TMDL requires facilities with an average wastewater discharge greater than 1 MGD, meet a phosphorus limitation of 0.25 mg/L; therefore, this limitation will be imposed in this permit issuance.

Cooling Water Intake Structure (CWIS)

The entity providing water to the permittee is a public water system in accordance with Section 1401 of the Safe Drinking Water Act or the water used for cooling consists of effluent which would otherwise be discharged, therefore, the permittee is exempt from the requirements of this permit condition.

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.

Revision (October 30, 2020)

Based on comments submitted by the facility, the following changes have been made to the permit, rationale, and supporting documents:

- DSN01B's outfall description was modified to remove "groundwater from Arichem" as a contributing source and monitoring for the following parameters associated with this contribution were removed from the draft permit: Chlorobenzene, 1,2,4Trichlorobenzene, 1,2Dichlorobenzene, 1,3Dichlorobenzene, and 1,4Dichlorobenzene.
- Total Recoverable Selenium was replaced with Total Dissolved Selenium to compare the facility's discharge more accurately to the water quality standard. Additionally, the monitoring frequency was corrected in Part I.A of the permit to monthly instead of weekly.
- The facility requested that toxicity monitoring be performed quarterly instead of monthly and that the test requirements be reduced to screening. Based on the extensive history of compliance with toxicity requirements, the frequency of monitoring has been reduced to quarterly; however, definitive testing will continue to be required.

Based on comments received by EPA, the following changes have been made to the rationale:

- The rationale discussion was modified to include a discussion of the Category 4b impairment in the receiving stream.

Attachment A: Effluent Guideline Limitations Calculations

Bluestone Coke, LLC - Effluent Guideline Limitation Summary

Tier I (2,899,311 lbs/day)

	Final Allocations (lbs/day)	
Parameter	*Maximum*	*Average*
Nitrogen, Ammonia Total (as N)	9.496	6.546
Cyanide, Total	9.626	6.741
Phenols (4AAP)	0.123	0.077
Naphthalene	0.036	0.020
Benzo(a)pyrene	0.036	0.020
Oil & Grease	97.119	32.853
Solids, Total Suspended	745.264	384.600

Tier II (3,013,611 lbs/day)

	Final Allocations (lbs/day)	
Parameter	*Maximum*	*Average*
Nitrogen, Ammonia Total (as N)	9.831	6.777
Cyanide, Total	9.966	6.979
Phenols (4AAP)	0.128	0.080
Naphthalene	0.037	0.021
Benzo(a)pyrene	0.037	0.021
Oil & Grease	100.856	34.099
Solids, Total Suspended	774.177	399.571

Tier III (3,275,573 lbs/day)

	Final Allocations (lbs/day)	
Parameter	*Maximum*	*Average*
Nitrogen, Ammonia Total (as N)	10.598	7.306
Cyanide, Total	10.744	7.524
Phenols (4AAP)	0.138	0.086
Naphthalene	0.040	0.022
Benzo(a)pyrene	0.040	0.022
Oil & Grease	109.422	36.954
Solids, Total Suspended	840.453	433.888

Bluestone Coke, LLC - DSN01B - Tier I - Effluent Guideline Limitations

*Walter Coke Production:** 2,899,331.00 lbs/day

Best Available Technology Economically Achievable (BAT) (BAT is more stringent than BPT/BCT for Ammonia as Nitrogen, Cyanide, and Phenols (4AAP).

40 CFR 420.13(a): By-Product Cokemaking

	Guidelines Factors (lbs/thousand lbs of product)		Production (thousand lbs/day)	Permit Limits (lbs/day)	
Parameter	*Maximum*	*Average*	[redacted]	*Maximum*	*Average*
Nitrogen, Ammonia Total (as N)	0.00293	0.00202	2899.331	8.495	5.857
Cyanide	0.00297	0.00208	2899.331	8.611	6.031
Phenols (4AAP)	0.0000381	0.0000238	2899.331	0.110	0.069
Naphthalene	0.0000111	0.00000616	2899.331	0.032	0.018
Benzo(a)pyrene	0.000011	0.00000612	2899.331	0.032	0.018

Best Practicable Technology Currently Available (BPT)/Best Conventional Technology (BCT)

40 CFR 420.12(a) & 40 CFR 420.17(a): By-Product Cokemaking - Iron and Steel

	Guidelines Factors (lbs/thousand lbs of product)		Production (thousand lbs/day)	Permit Limits (lbs/day)	
Parameter	*Maximum*	*Average*	[redacted]	*Maximum*	*Average*
Solids, Total Suspended	0.253	0.131	2899.331	733.531	379.812
Oil and Grease	0.0327	0.0109	2899.331	94.808	31.603
pH	(1)	(1)	-	-	-

*The measure of production is 2.5% greater than the previous permitted production to take into account out of service ovens that may return to service.

(1) Within the range of 6.0 to 9.0 S.U.

Additional Allocations from Process Area Stormwater

(Development Document for Final Effluent Limitations Guidelines and Standards for the Iron and Steel Manufacturing Point Source Category, April 2002, Attachment 14-3)

	Attachment 14-3 Limitations (mg/L)*		Attachment 14-3 Limitations (lbs/day/MGD)		Stormwater Flow (gpm)	Increase in Loadings (lbs/day)	
Parameter	*Daily Maximum*	*Monthly Average*	*Daily Maximum*	*Monthly Average*	[redacted]	*Daily Maximum*	*Monthly Average*
Nitrogen, Ammonia Total (as N)	6.21	4.28	0.075	0.051	13.4	1.0007	0.6897
Cyanide	6.3	4.41	0.076	0.053	13.4	1.0152	0.7107
Naphthalene	0.02344	0.01307	0.000	0.000	13.4	0.0038	0.0021
Phenols (4AAP)	0.08	0.05	0.001	0.001	13.4	0.0129	0.0081
Benzo(a)pyrene	0.02325	0.01297	0.000	0.000	13.4	0.0037	0.0021
Total Suspended Solids	72.81	29.71	0.875	0.357	13.4	11.7330	4.7876
Oil and Grease	14.34	7.76	0.172	0.093	13.4	2.3108	1.2505

*These values are taken from Attachment 14-3 Subcategory - Coke Byproduct, Option-Best Available Technology

Final Adjusted Effluent Limitations

	Final Allocations (lbs/day)	
Parameter	*Maximum*	*Average*
Nitrogen, Ammonia Total (as N)	9.496	6.546
Cyanide, Total	9.626	6.741
Phenols (4AAP)	0.123	0.077
Naphthalene	0.036	0.020
Benzo(a)pyrene	0.036	0.020
Oil & Grease	97.119	32.853
Solids, Total Suspended	745.264	384.600

Bluestone Coke, LLC - DSN01B - Tier II - Effluent Guideline Limitations

*Walter Coke Production:** 3,013,611.00 lbs/day

Best Available Technology Economically Achievable (BAT) (BAT is more stringent than BPT/BCT for Ammonia as Nitrogen, Cyanide, and Phenols (4AAP).

40 CFR 420.13(a): By-Product Cokemaking

	Guidelines Factors (lbs/thousand lbs of product)		Production (thousand lbs/day)	Permit Limits (lbs/day)	
Parameter	*Maximum*	*Average*	[redacted]	*Maximum*	*Average*
Nitrogen, Ammonia Total (as N)	0.00293	0.00202	3013.611	8.830	6.087
Cyanide	0.00297	0.00208	3013.611	8.950	6.268
Phenols (4AAP)	0.0000381	0.0000238	3013.611	0.115	0.072
Naphthalene	0.0000111	0.00000616	3013.611	0.033	0.019
Benzo(a)pyrene	0.000011	0.00000612	3013.611	0.033	0.018

Best Practicable Technology Currently Available (BPT)/Best Conventional Technology (BCT)

40 CFR 420.12(a) & 40 CFR 420.17(a): By-Product Cokemaking - Iron and Steel

	Guidelines Factors (lbs/thousand lbs of product)		Production (thousand lbs/day)	Permit Limits (lbs/day)	
Parameter	*Maximum*	*Average*	[redacted]	*Maximum*	*Average*
Solids, Total Suspended	0.253	0.131	3013.611	762.444	394.783
Oil and Grease	0.0327	0.0109	3013.611	98.545	32.848

*This measure of production refers to 82% furnace pushes and 18% foundry pushes

Additional Allocations from Process Area Stormwater

(Development Document for Final Effluent Limitations Guidelines and Standards for the Iron and Steel Manufacturing Point Source Category, April 2002, Attachment 14-3)

	Attachment 14-3 Limitations (mg/L)*		Attachment 14-3 Limitations (lbs/day/MGD)		Stormwater Flow (gpm)	Increase in Loadings (lbs/day)	
Parameter	*Daily Maximum*	*Monthly Average*	*Daily Maximum*	*Monthly Average*	[redacted]	*Daily Maximum*	*Monthly Average*
Nitrogen, Ammonia Total (as N)	6.21	4.28	0.075	0.051	13.4	1.0007	0.6897
Cyanide	6.3	4.41	0.076	0.053	13.4	1.0152	0.7107
Naphthalene	0.02344	0.01307	0.000	0.000	13.4	0.0038	0.0021
Phenols (4AAP)	0.08	0.05	0.001	0.001	13.4	0.0129	0.0081
Benzo(a)pyrene	0.02325	0.01297	0.000	0.000	13.4	0.0037	0.0021
Total Suspended Solids	72.81	29.71	0.875	0.357	13.4	11.7330	4.7876
Oil and Grease	14.34	7.76	0.172	0.093	13.4	2.3108	1.2505

*These values are taken from Attachment 14-3 Subcategory - Coke Byproduct, Option-Best Available Technology

Final Adjusted Effluent Limitations

	Final Allocations (lbs/day)	
Parameter	*Maximum*	*Average*
Nitrogen, Ammonia Total (as N)	9.831	6.777
Cyanide, Total	9.966	6.979
Phenols (4AAP)	0.128	0.080
Naphthalene	0.037	0.021
Benzo(a)pyrene	0.037	0.021
Oil & Grease	100.856	34.099
Solids, Total Suspended	774.177	399.571

Bluestone Coke, LLC - DSN01B - Tier III - Effluent Guideline Limitations

*Walter Coke Production:** 3,275,573.00 lbs/day

Best Available Technology Economically Achievable (BAT) (BAT is more stringent than BPT/BCT for Ammonia as Nitrogen, Cyanide, and Phenols (4AAP).

40 CFR 420.13(a): By-Product Cokemaking

	Guidelines Factors (lbs/thousand lbs of product)		Production (thousand lbs/day)	Permit Limits (lbs/day)	
Parameter	*Maximum*	*Average*	[redacted]	*Maximum*	*Average*
Nitrogen, Ammonia Total (as N)	0.00293	0.00202	3275.573	9.597	6.617
Cyanide	0.00297	0.00208	3275.573	9.728	6.813
Phenols (4AAP)	0.0000381	0.0000238	3275.573	0.125	0.078
Naphthalene	0.0000111	0.00000616	3275.573	0.036	0.020
Benzo(a)pyrene	0.000011	0.00000612	3275.573	0.036	0.020

Best Practicable Technology Currently Available (BPT)/Best Conventional Technology (BCT)

40 CFR 420.12(a) & 40 CFR 420.17(a): By-Product Cokemaking - Iron and Steel

	Guidelines Factors (lbs/thousand lbs of product)		Production (thousand lbs/day)	Permit Limits (lbs/day)	
Parameter	*Maximum*	*Average*	[redacted]	*Maximum*	*Average*
Solids, Total Suspended	0.253	0.131	3275.573	828.720	429.100
Oil and Grease	0.0327	0.0109	3275.573	107.111	35.704

*This measure of production refers to 100% furnace pushes

Additional Allocations from Process Area Stormwater

(Development Document for Final Effluent Limitations Guidelines and Standards for the Iron and Steel Manufacturing Point Source Category, April 2002, Attachment 14-3)

	Attachment 14-3 Limitations (mg/L)*		Attachment 14-3 Limitations (lbs/day/MGD)		Stormwater Flow (gpm)	Increase in Loadings (lbs/day)	
Parameter	*Daily Maximum*	*Monthly Average*	*Daily Maximum*	*Monthly Average*	[redacted]	*Daily Maximum*	*Monthly Average*
Nitrogen, Ammonia Total (as N)	6.21	4.28	0.075	0.051	13.4	1.0007	0.6897
Cyanide	6.3	4.41	0.076	0.053	13.4	1.0152	0.7107
Naphthalene	0.02344	0.01307	0.000	0.000	13.4	0.0038	0.0021
Phenols (4AAP)	0.08	0.05	0.001	0.001	13.4	0.0129	0.0081
Benzo(a)pyrene	0.02325	0.01297	0.000	0.000	13.4	0.0037	0.0021
Total Suspended Solids	72.81	29.71	0.875	0.357	13.4	11.7330	4.7876
Oil and Grease	14.34	7.76	0.172	0.093	13.4	2.3108	1.2505

*These values are taken from Attachment 14-3 Subcategory - Coke Byproduct, Option-Best Available Technology

Final Adjusted Effluent Limitations

	Final Allocations (lbs/day)	
Parameter	*Maximum*	*Average*
Nitrogen, Ammonia Total (as N)	10.598	7.306
Cyanide, Total	10.744	7.524
Phenols (4AAP)	0.138	0.086
Naphthalene	0.040	0.022
Benzo(a)pyrene	0.040	0.022
Oil & Grease	109.422	36.954
Solids, Total Suspended	840.453	433.888

Bluestone Coke, LLC - DSN01B - Stormwater Flow Calculation

Birmingham Airport Annual Rainfall = 55 inches/year 4.58 ft

Coke Plant By-Products Areas that Treat Stormwater	Sq. Ft.
Main By-Products Area	112,500
Trench between Coke Ovens and By-Products	66,000
Light Oil Containment Area	6,300
Coal Car Storage Tank Containment Area	10,400
Weak Liquor Containment Area	10,400

Total	205,600	ft^2
Stormwater Volume	941,648	ft^3
	7,043,527.04	gallons/year
Flow for Effluent Calculations	13.40	gpm

Bluestone Coke, LLC - DSN001 - Total Allocations

Total Suspended Solids*					
Source	*Flow (Form 2C)*	*Daily Maximum*		*Monthly Average*	
	MGD	mg/L	lbs/day	mg/L	lbs/day
Cokemaking (DSN01B)	-	-	733.5	-	379.8
Cokemaking Stormwater (DSN01B)	-	-	11.7	-	4.8
Noncontact Cooling Water	2.914	7.5	182.3	5.0	121.5
Stormwater Runoff	0.849	60	424.8	45.0	318.6
Total Allocation	-	-	1352.4	-	824.7

*The permit application the facitily submitted decreased the allocation from production-based effluent guidelines and increased the amount of flow for non-contact cooling water and increased the annual average stormwater flow. The resulting limitations are higher than the current permit limits; therefore, the current permit limits are proposed to be continued since the permittee has not shown an inability to comply with them.

Attachment B: Reasonable Potential Analysis

Facility Name: **Bluestone Coke, LLC**

NPDES No.: **AL0003247**

Background Instream Data was taken by the facility approximately 30 yards

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

ID	Pollutant	Carcinogen "yes"	Type	Background from upstream source (C_{d1}) Daily Max	Background from upstream source (C_{d2}) Monthly Ave	Background Instream (C_s) Daily Max	Background Instream (C_s) Monthly Ave	Enter Max Daily Discharge as reported by Applicant (C_d) Max	Enter Avg Daily Discharge as reported by Applicant (C_d) Ave	Partition Coefficient (Stream / Lake)
				µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
1	Antimony		Metals	0	0	0	0	0	0	-
2	**Arsenic*,****	YES	Metals	0	0	0.520	0.520	5.98	5.98	0.574
	Arsenic (III)*,**	YES	Metals	0	0	0.039	0.039	0.260	0.260	**1.000**
3	Beryllium		Metals	0	0	0	0	0	0	-
4	Cadmium**		Metals	0	0	0	0	0	0	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0	3.54	3.54	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0	3.54	3.54	-
7	Copper**		Metals	0	0	1.38	1.38	9.99	4.91	0.386
8	Lead**		Metals	0	0	0	0	5.90	1.18	0.467
9	Mercury**		Metals	0	0	0	0	0.0025	0.00181	0.302
10	Nickel**		Metals	0	0	1.58	1.58	4.90	4.90	0.505
11	Selenium		Metals	0	0	2.03	2.03	7.65	6.85	-
12	Silver		Metals	0	0	0	0	0	0	-
13	Thallium		Metals	0	0	0	0	0	0	-
14	Zinc**		Metals	0	0	8.68	8.68	35.7	23.85	0.330
15	Cyanide		Metals	0	0	9.85	9.85	119	39	-
	Cyanide (available)		Metals	0	0	4.08	4.08	0	0	-
16	Total Phenolic Compounds		Metals	0	0	0	0	0	0	-
17	Hardness (As CaCO3)		Metals	0	0	0	0	0	0	-
18	Acrolein		VOC	0	0	0	0	0	0	-
19	**Acrylonitrile***	YES	VOC	0	0	0	0	0	0	-
20	**Aldrin***	YES	VOC	0	0	0	0	0	0	-
21	**Benzene***	YES	VOC	0	0	0	0	0	0	-
22	**Bromoform***	YES	VOC	0	0	0	0	0	0	-
23	**Carbon Tetrachloride***	YES	VOC	0	0	0	0	0	0	-
24	**Chlordane***	YES	VOC	0	0	0	0	0	0	-
25	Clorobenzene		VOC	0	0	0	0	0	0	-
26	**Chlorodibromo-Methane***	YES	VOC	0	0	0	0	0	0	-
27	Chloroethane		VOC	0	0	0	0	0	0	-
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0	-
29	**ChloroForm***	YES	VOC	0	0	0	0	0	0	-
30	**4,4'-DDD***	YES	VOC	0	0	0	0	0	0	-
31	**4,4'-DDE***	YES	VOC	0	0	0	0	0	0	-
32	**4,4'-DDT***	YES	VOC	0	0	0	0	0	0	-
33	**Dichlorobromo-Methane***	YES	VOC	0	0	0	0	0	0	-
34	1, 1-Dichloroethane		VOC	0	0	0	0	0	0	-
35	**1, 2-Dichloroethane***	YES	VOC	0	0	0	0	0	0	-
36	Trans-1, 2-Dichloro-Ethylene		VOC	0	0	0	0	0	0	-
37	1, 1-Dichloroethylene		VOC	0	0	0	0	0	0	-
38	**1, 2-Dichloropropane***	YES	VOC	0	0	0	0	0	0	-
39	**1, 3-Dichoro-Propylene***	YES	VOC	0	0	0	0	0	0	-
40	**Dieldrin***	YES	VOC	0	0	0	0	0	0	-
41	Ethylbenzene		VOC	0	0	0	0	0	0	-
42	Methyl Bromide		VOC	0	0	0	0	0	0	-
43	Methyl Chloride		VOC	0	0	0	0	0	0	-
44	**Methylene Chloride***	YES	VOC	0	0	0	0	0	0	-
45	**1, 1, 2, 2-Tetrachloro-Ethane***	YES	VOC	0	0	0	0	0	0	-
46	**Tetrachloro-Ethylene***	YES	VOC	0	0	0	0	0	0	-
47	Toluene		VOC	0	0	0	0	0	0	-
48	**Toxaphene***	YES	VOC	0	0	0	0	0	0	-
49	Tributyltine (TBT)		VOC	0	0	0	0	0	0	-
50	1, 1, 1-Trichloroethane		VOC	0	0	0	0	0	0	-
51	**1, 1, 2-Trichloroethane***	YES	VOC	0	0	0	0	0	0	-
52	**Trichloroethylene***	YES	VOC	0	0	0	0	0	0	-
53	**Vinyl Chloride***	YES	VOC	0	0	0	0	0	0	-
54	P-Chloro-M-Cresol		Acids	0	0	0	0	0	0	-
55	2-Chlorophenol		Acids	0	0	0	0	0	0	-
56	2, 4-Dichlorophenol		Acids	0	0	0	0	0	0	-
57	2, 4-Dimethylphenol		Acids	0	0	0	0	0	0	-
58	4, 6-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	-
59	2, 4-Dinitrophenol		Acids	0	0	0	0	0	0	-
60	4,6-Dinitro-2-methylphenol		Acids	0	0	0	0	0	0	-
61	**Dioxin (2,3,7,8-TCDD)***	YES	Acids	0	0	0	0	0	0	-
62	2-Nitrophenol		Acids	0	0	0	0	0	0	-
63	4-Nitrophenol		Acids	0	0	0	0	0	0	-
64	**Pentachlorophenol***	YES	Acids	0	0	0	0	0	0	-
65	Phenol		Acids	0	0	0	0	0	0	-
66	**2, 4, 6-Trichlorophenol***	YES	Acids	0	0	0	0	0	0	-
67	Acenaphthene		Bases	0	0	0	0	0	0	-
68	Acenaphthylene		Bases	0	0	0	0	0	0	-
69	Anthracene		Bases	0	0	0	0	0	0	-
70	**Benzidine***	YES	Bases	0	0	0	0	0	0	-
71	**Benzo(A)Anthracene***	YES	Bases	0	0	0	0	0	0	-
72	**Benzo(A)Pyrene***	YES	Bases	0	0	0.00956	0.00478	6.27	0.0786	-
73	**3, 4 Benzo-Fluoranthene***	YES	Bases	0	0	0	0	0	0	-
74	Benzo(GHI)Perylene		Bases	0	0	0	0	0	0	-
75	**Benzo(K)Fluoranthene***	YES	Bases	0	0	0	0	0	0	-
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0	-
77	**Bis (2-Chloroethyl)-Ether***	YES	Bases	0	0	0	0	0	0	-
78	Bis (2-Chloroiso-Propyl) Ether		Bases	0	0	0	0	0	0	-
79	**Bis (2-Ethylhexyl) Phthalate***	YES	Bases	0	0	0	0	0	0	-
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	-
82	2-Chloronaphthalene		Bases	0	0	0	0	0	0	-
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
84	**Chrysene***	YES	Bases	0	0	0	0	0	0	-
85	Di-N-Butyl Phthalate		Bases	0	0	0	0	0	0	-
86	Di-N-Octyl Phthalate		Bases	0	0	0	0	0	0	-
87	**Dibenzo(A,H)Anthracene***	YES	Bases	0	0	0	0	0	0	-
88	1, 2-Dichlorobenzene		Bases	0	0	0	0	0	0	-
89	1, 3-Dichlorobenzene		Bases	0	0	0	0	0	0	-
90	1, 4-Dichlorobenzene		Bases	0	0	0	0	0	0	-
91	**3, 3-Dichlorobenzene***	YES	Bases	0	0	0	0	0	0	-
92	Diethyl Phthalate		Bases	0	0	0	0	0	0	-
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0	-
94	**2, 4-Dinitrotoluene***	YES	Bases	0	0	0	0	0	0	-
95	2, 6-Dinitrotoluene		Bases	0	0	0	0	0	0	-
96	**1,2-Diphenylhydrazine***	YES	Bases	0	0	0	0	0	0	-
97	Endosulfan (alpha)		Bases	0	0	0	0	0	0	-
98	Endosulfan (beta)		Bases	0	0	0	0	0	0	-
99	Endosulfan sulfate		Bases	0	0	0	0	0	0	-
100	Endrin		Bases	0	0	0	0	0	0	-
101	Endrin Aldehyde		Bases	0	0	0	0	0	0	-
102	Fluoranthene		Bases	0	0	0	0	0.88	0.88	-
103	Fluorene		Bases	0	0	0	0	0	0	-
104	**Heptochlor***	YES	Bases	0	0	0	0	0	0	-
105	**Heptachlor Epoxide***	YES	Bases	0	0	0	0	0	0	-
106	**Hexachlorobenzene***	YES	Bases	0	0	0	0	0	0	-
107	**Hexachlorobutadiene***	YES	Bases	0	0	0	0	0	0	-
108	**Hexachlorocyclohexane (alpha)***	YES	Bases	0	0	0	0	0	0	-
109	**Hexachlorocyclohexane (beta)***	YES	Bases	0	0	0	0	0	0	-
110	Hexachlorocyclohexane (gamma)		Bases	0	0	0	0	0	0	-
111	HexachlorocyclePentadiene		Bases	0	0	0	0	0	0	-
112	**Hexachloroethane***	YES	Bases	0	0	0	0	0	0	-
113	**Indeno(1, 2, 3-CD)Pyrene***	YES	Bases	0	0	0	0	0	0	-
114	**Isophorone***	YES	Bases	0	0	0	0	0	0	-
115	Naphthalene		Bases	0	0	0	0	0.61	0.61	-
116	Nitrobenzene		Bases	0	0	0	0	0	0	-
117	**N-Nitrosodi-n-propylamine***	YES	Bases	0	0	0	0	0	0	-
118	**N-Nitrosodimethylamine***	YES	Bases	0	0	0	0	0	0	-
119	**N-Nitrosodiphenylamine***	YES	Bases	0	0	0	0	0	0	-
120	**PCB-1016***	YES	Bases	0	0	0	0	0	0	-
121	**PCB-1221***	YES	Bases	0	0	0	0	0	0	-
122	**PCB-1232***	YES	Bases	0	0	0	0	0	0	-
123	**PCB-1242***	YES	Bases	0	0	0	0	0	0	-
124	**PCB-1248***	YES	Bases	0	0	0	0	0	0	-
125	**PCB-1254***	YES	Bases	0	0	0	0	0	0	-
126	**PCB-1260***	YES	Bases	0	0	0	0	0	0	-
127	Phenanthrene		Bases	0	0	0	0	0.81	0.81	-
128	Pyrene		Bases	0	0	0	0	0	0	-
129	1, 2, 4-Trichlorobenzene		Bases	0	0	0	0	0	0	-

* Pollutant considered by EPA to be carcinogenic

Stream Flows are based on the WLA performed on 3/5/2014.

4.73	**Enter** Q_d = wastewater discharge flow from facility (MGD)
7.32	Q_d = wastewater discharge flow (cfs) (this value is calculated from the MGD)
0	**Enter flow from upstream discharge** Qd2 = background stream flow in MGD above point of discharge
0	Qd2 = background stream flow from upstream source (cfs)
6.27	**Enter 7Q10**, Q_s = background stream flow in cfs above point of discharge
2.35	**Enter or estimated, 1Q10**, Q_s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
46.56	**Enter Mean Annual Flow**, Q_s = background stream flow in cfs above point of discharge
7.7	**Enter 7Q2**, Q_s = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to Left	**Enter** C_s = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q_d +Qd2+Q_s	Q_r = resultant in-stream flow, after discharge
Calculated on other sheets	C_r = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
100	**Enter**, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
7.00 s.u.	**Enter**, Background pH above point of discharge
YES	**Enter**, Is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals)

Flows used in RP analysis for current permit
Qd = 5.05 mgd
Qd = 7.81 cfs
$7Q_{10}$ = 4.75 cfs
$1Q_{10}$ = 3.5625 cfs
Annual Flow = 43.32 cfs

Discharge data from the March 2013 through February 2014 DMR summary spreadsheet

** Usepa Partition Coefficients

October 30, 2020

Background instream data is the concentration at Walter Coke's discharge using the max loading from ABC Coke of 0.0012 lbs/day and 0.0024 lbs/day for the monthly average and daily maximum, respectively, which were determined as half the available load at the point of ABC Coke's discharge.

Facility Name: Bluestone Coke, LLC

NPDES No.: AL0003247

Freshwater F&W classification.						Freshwater Acute (µg/l) Q_s =1Q10						Freshwater Chronic (µg/l) Q_s = 7Q10					Human Health Consumption Fish only (µg/l) Carcinogen Q_s = Annual Average Non-Carcinogen Q_s = 7Q10			
ID	Pollutant	RP?	Carcinogen yes	Background from upstream source (Cd2) Daily Max	Max Daily Discharge as reported by Applicant (C_{emax})	Water Quality Criteria (C_c)	Draft Permit Limit (C_{amax})	20% of Draft Permit Limit	RP?	Background from upstream source (Cd2) Monthly Ave	Avg Daily Discharge as reported by Applicant (C_{emx})	Water Quality Criteria (C_c)	Draft Permit Limit (C_{amx})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C_c)	Draft Permit Limit (C_{amx})	20% of Draft Permit Limit	RP?
1	Antimony			0	0	-	-	-	-	0	0	-	-	-	-	3.73E+02	6.93E+02	1.39E+02	No
2	Arsenic	YES	YES	0	5.98	592.334	782.399	156.480	No	0	5.98	261.324	484.800	96.960	No	0.528	0.578	0.116	Yes
	Arsenic (III)		YES	0	0.26	340.000	449.181	89.836	No	0	0.26	150.000	278.497	55.699	No	0.303	1.983	0.397	No
3	Beryllium			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
4	Cadmium			0	0	8.533	11.273	2.255	No	0	0	1.042	1.936	0.387	No	-	-	-	-
5	Chromium/ Chromium III			0	3.54	2713.159	3584.508	716.902	No	0	3.54	352.926	655.339	131.068	No	-	-	-	-
6	Chromium/ Chromium VI			0	3.54	16.000	21.139	4.228	No	0	3.54	11.000	20.426	4.085	No	-	-	-	-
7	Copper	YES		0	9.99	34.637	45.318	9.064	Yes	0	4.91	23.082	41.678	8.336	No	3.35E+03	6.22E+03	1.24E+03	No
8	Lead			0	5.9	138.290	182.703	36.541	No	0	1.18	5.389	10.007	2.001	No	-	-	-	-
9	Mercury			0	0.0025	2.400	3.171	0.634	No	0	0.00181	0.012	0.022	0.00446	No	1.40E-01	2.61E-01	5.22E-02	No
10	Nickel			0	4.9	927.200	1224.468	244.894	No	0	4.9	102.983	189.673	37.975	No	1.97E+03	3.65E+03	7.30E+02	No
11	Selenium	YES		0	7.65	20.000	25.771	5.154	Yes	0	6.85	5.000	7.545	1.509	Yes	2.43E+03	4.51E+03	9.02E+02	No
12	Silver			0	0	3.217	4.250	0.850	No	0	0	-	-	-	-	-	-	-	-
13	Thallium			0	0	-	-	-	-	0	0	-	-	-	-	2.74E-01	5.08E-01	1.02E-01	No
14	Zinc			0	35.7	355.092	466.345	93.269	No	0	23.85	357.997	657.317	131.463	No	4.51E+04	8.38E+04	1.68E+04	No
15	Cyanide (total values in discharge)	YES		0	119	22.000	25.902	5.180	Yes	0	39	5.200	1.216	0.243	Yes	9.33E+03	1.73E+04	3.46E+03	No
	Cyanide (available)			0	0	22.000	27.782	5.552	No	0	0	5.200	6.177	1.235	No	9.33E+03	1.73E+04	3.47E+03	No
16	Total Phenolic Compounds			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
17	Hardness (As CaCO3)			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
18	Acrolein			0	0	-	-	-	-	0	0	-	-	-	-	1.69E+02	3.14E+02	6.29E+01	No
19	Acrylonitrile		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.44E-01	1.06E+00	2.12E-01	No
20	Aldrin		YES	0	0	3.000	3.963	0.793	No	0	0	1.300	2.414	0.483	No	2.94E-05	2.16E-04	4.33E-05	No
21	Benzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.55E+01	1.14E+02	2.28E+01	No
22	Bromoform		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.88E+01	5.80E+02	1.16E+02	No
23	Carbon Tetrachloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.57E-01	7.05E+00	1.41E+00	No
24	Chlordane		YES	0	0	2.400	3.171	0.634	No	0	0	0.004	0.008	0.002	No	4.73E-04	3.48E-03	6.96E-04	No
25	Clorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	9.06E+02	1.68E+03	3.37E+02	No
26	Chlorodibromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.41E+00	5.45E+01	1.09E+01	No
27	Chloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
28	2-Chloro-Ethylvinyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
29	ChloroForm		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.02E+02	7.51E+02	1.50E+02	No
30	4,4' - DDD		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.81E-04	1.34E-03	2.67E-04	No
31	4,4' - DDE		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E-04	9.43E-04	1.89E-04	No
32	4,4' - DDT		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E-04	9.43E-04	1.89E-04	No
33	Dichlorobromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.00E+01	7.39E+01	1.48E+01	No
34	1, 1-Dichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
35	1, 2-Dichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.14E+01	1.57E+02	3.15E+01	No
36	Trans-1, 2-Dichloro-Ethylene			0	0	-	-	-	-	0	0	-	-	-	-	5.91E+03	1.10E+04	2.19E+03	No
37	1, 1-Dichloroethylene			0	0	-	-	-	-	0	0	-	-	-	-	4.17E+03	7.74E+03	1.55E+03	No
38	1, 2-Dichloropropane		YES	0	0	-	-	-	-	0	0	-	-	-	-	8.49E+00	6.25E+01	1.25E+01	No
39	1, 3-Dichloro-Propylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.23E+01	9.04E+01	1.81E+01	No
40	Dieldrin		YES	0	0	0.240	0.317	0.063	No	0	0	0.056	0.104	0.021	No	3.12E-05	2.30E-04	4.60E-05	No
41	Ethylbenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.24E+03	2.31E+03	4.62E+02	No
42	Methyl Bromide			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+02	1.62E+03	3.24E+02	No
43	Methyl Chloride			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
44	Methylene Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.46E+02	2.55E+03	5.09E+02	No
45	1, 1, 2, 2-Tetrachloro-Ethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.33E+00	1.72E+01	3.44E+00	No
46	Tetrachloro-Ethylene		YES	0	8	-	-	-	-	0	0	-	-	-	-	1.92E+00	1.41E+01	2.82E+00	No
47	Toluene			0	0	-	-	-	-	0	0	-	-	-	-	8.72E+03	1.62E+04	3.24E+03	No
48	Toxaphene		YES	0	0	0.730	0.964	0.193	No	0	0	0.0002	0.000	0.000	No	1.62E-04	1.19E-03	2.38E-04	No
49	Tributyltin (TBT)			0	0	0.460	0.608	0.122	No	0	0	0.072	0.134	0.027	No	-	-	-	-
50	1, 1, 1-Trichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
51	1, 1, 2-Trichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.10E+00	6.70E+01	1.34E+01	No
52	Trichlorethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.75E+01	1.29E+02	2.57E+01	No
53	Vinyl Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.42E+00	1.05E+01	2.10E+00	No
54	P-Chloro-M-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
55	2-Chlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+01	1.62E+02	3.23E+01	No
56	2, 4-Dichlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	1.72E+02	3.19E+02	6.39E+01	No
57	2, 4-Dimethylphenol			0	0	-	-	-	-	0	0	-	-	-	-	4.98E+02	9.24E+02	1.85E+02	No
58	4, 6-Dinitro-O-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
59	2, 4-Dinitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	5.78E+03	1.16E+03	No
60	4,6-Dinitro-2-methylphenol			0	0	-	-	-	-	0	0	-	-	-	-	1.65E+02	3.07E+02	6.14E+01	No
61	Dioxin (2,3,7,8-TCDD)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.67E-08	1.96E-07	3.93E-08	No
62	2-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
63	4-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
64	Pentachlorophenol		YES	0	0	8.723	11.525	2.305	No	0	0	6.693	12.427	2.485	No	1.77E+00	1.30E+01	2.60E+00	No
65	Phenol			0	0	-	-	-	-	0	0	-	-	-	-	1.00E+06	1.56E+06	3.71E+05	No
66	2, 4, 6-Trichlorophenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.41E+00	1.04E+01	2.08E+00	No
67	Acenaphthene			0	0	-	-	-	-	0	0	-	-	-	-	5.79E+02	1.07E+03	2.15E+02	No
68	Acenaphthylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
69	Anthracene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+04	4.33E+04	8.67E+03	No
70	Benzidine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.16E-04	8.54E-04	1.71E-04	No
71	Benzo(A)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	7.84E-02	1.57E-02	No
72	Benzo(A)Pyrene	YES	YES	0	6.27	-	-	-	-	0	0.0288	-	-	-	-	0.0107	0.0480	0.0096	Yes
73	3, 4 Benzo-Fluoranthene		YES	0	0	-	-	-	-	0	0	-	-	-	-	0.01065449	0.07844895	1.57E-02	No
74	Benzo(GHI)Perylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
75	Benzo(K)Fluoranthene		YES	0	0	-	-	-	-	0	0	-	-	-	-	0.01065449	0.07844895	1.57E-02	No
76	Bis (2-Chloroethoxy) Methane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
77	Bis (2-Chloroethyl)-Ether		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.07E-01	2.26E+00	4.53E-01	No
78	Bis (2-Chloroiso-Propyl) Ether			0	0	-	-	-	-	0	0	-	-	-	-	3.78E+04	7.02E+04	1.40E+04	No
79	Bis (2-Ethylhexyl) Phthalate		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E+00	9.44E+00	1.89E+00	No
80	4-Bromophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
81	Butyl Benzyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	1.13E+03	2.09E+03	4.19E+02	No
82	2-Chloronaphthalene			0	0	-	-	-	-	0	0	-	-	-	-	9.24E+02	1.72E+03	3.43E+02	No
83	4-Chlorophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
84	Chrysene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	7.84E-02	1.57E-02	No
85	Di-N-Butyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.62E+03	4.87E+03	9.74E+02	No
86	Di-N-Octyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
87	Dibenzo(A,H)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	7.84E-02	1.57E-02	No
88	1, 2-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	7.55E+02	1.40E+03	2.81E+02	No
89	1, 3-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	5.62E+02	1.04E+03	2.09E+02	No
90	1, 4-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.12E+02	2.09E+02	4.18E+01	No
91	3, 3-Dichlorobenzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.66E-02	1.22E-01	2.45E-02	No
92	Diethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.56E+04	4.75E+04	9.50E+03	No
93	Dimethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	6.48E+05	1.20E+06	2.41E+05	No
94	2, 4-Dinitrotoluene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.96E+00	1.46E+01	2.92E+00	No
95	2, 6-Dinitrotoluene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
96	1,2-Diphenylhydrazine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.17E-01	8.62E-01	1.72E-01	No
97	Endosulfan (alpha)			0	0	0.22	0.291	0.058	No	0	0	0.056	0.104	0.021	No	5.19E+01	9.63E+01	1.93E+01	No
98	Endosulfan (beta)			0	0	0.22	0.291	0.058	No	0	0	0.056	0.104	0.021	No	5.19E+01	9.63E+01	1.93E+01	No
99	Endosulfan sulfate			0	0	-	-	-	-	0	0	-	-	-	-	5.19E+01	9.63E+01	1.93E+01	No
100	Endrin			0	0	0.086	0.114	0.023	No	0	0	0.036	0.067	0.013	No	3.53E-02	6.55E-02	1.31E-02	No
101	Endrin Aldehyde			0	0	-	-	-	-	0	0	-	-	-	-	1.76E+00	3.27E+00	6.55E-01	No
102	Fluoranthene			0	0.88	-	-	-	-	0	0.88	-	-	-	-	8.12E+01	1.51E+02	3.01E+01	No
103	Fluorene			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	5.78E+03	1.16E+03	No
104	Heptochlor		YES	0	0	0.52	0.687	0.137	No	0	0	0.004	0.007	0.001	No	4.63E-05	3.41E-04	6.82E-05	No
105	Heptachlor Epoxide		YES	0	0	0.52	0.687	0.137	No	0	0	0.004	0.007	0.001	No	2.29E-05	1.69E-04	3.37E-05	No
106	Hexachlorobenzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.68E-04	1.24E-03	2.47E-04	No
107	Hexachlorobutadiene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.08E+01	7.92E+01	1.58E+01	No
108	Hexachlorocyclohexane (alpha)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.85E-03	2.10E-02	4.20E-03	No
109	Hexachlorocyclohexane (beta)		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.97E-03	7.34E-02	1.47E-02	No
110	Hexachlorocyclohexane (gamma)			0	0	0.95	1.255	0.251	No	0	0	-	-	-	-	1.08E+00	2.00E+00	4.00E-01	No
111	HexachlorocycloPentadiene			0	0	-	-	-	-	0	0	-	-	-	-	6.45E+02	1.20E+03	2.40E+02	No
112	Hexachloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	1.41E+01	2.82E+00	No
113	Indeno(1, 2, 3-CK)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	7.84E-02	1.57E-02	No
114	Isophorone		YES	0	0	-	-	-	-	0	0	-	-	-	-	5.61E+02	4.13E+03	8.26E+02	No
115	Naphthalene			0	0.61	-	-	-	-	0	0.61	-	-	-	-	-	-	-	-
116	Nitrobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.04E+02	7.50E+02	1.50E+02	No
117	N-Nitrosodi-N-Propylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.95E-01	2.17E+00	4.34E-01	No
118	N-Nitrosodi-N-Methylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.76E+00	1.30E+01	2.59E+00	No
119	N-Nitrosodi-N-Phenylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.50E+00	2.58E+01	5.16E+00	No
120	PCB-1016		YES	0	0	-	-	-	-	0	0	0.014	0.026	0.005	No	3.74E-05	2.75E-04	5.51E-05	No
121	PCB-1221		YES	0	0	-	-	-	-	0	0	0.014	0.026	0.005	No	3.74E-05	2.75E-04	5.51E-05	No
122	PCB-1232		YES	0	0	-	-	-	-	0	0	0.014	0.026	0.005	No	3.74E-05	2.75E-04	5.51E-05	No
123	PCB-1242		YES	0	0	-	-	-	-	0	0	0.014	0.026	0.005	No	3.74E-05	2.75E-04	5.51E-05	No
124	PCB-1248		YES	0	0	-	-	-	-	0	0	0.014	0.026	0.005	No	3.74E-05	2.75E-04	5.51E-05	No
125	PCB-1254		YES	0	0	-	-	-	-	0	0	0.014	0.026	0.005	No	3.74E-05	2.75E-04	5.51E-05	No
126	PCB-1260		YES	0	0	-	-	-	-	0	0	0.014	0.026	0.005	No	3.74E-05	2.75E-04	5.51E-05	No
127	Phenanthrene			0	0.81	-	-	-	-	0	0.81	-	-	-	-	-	-	-	-
128	Pyrene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+03	4.33E+03	8.67E+02	No
129	1, 2, 4-Trichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.09E+01	7.60E+01	1.52E+01	No

Attachment C: Water Quality Model

Waste Load Allocation Summary

Comments included: [x] Yes [ ] No

General Information

Information Verified By: JJM

Receiving Stream Name	Fivemile Creek
Year File Was Created	1984
Previous File Name	
OR: Local Name (If applicable)	
Facility Name	Walter Coke Inc.
Previous Discharger Name	Sloss
Or-AKA (includes previous file name)	
11 Digit HUC Code	03160111130
12 Digit HUC Code	031601110406
River Basin	Black Warrior
County	Jefferson
Use Classification	F&W
Discharge Latitude	33.5853
Discharge Longitude	-86.79109
Site Visit Completed?	[x] Yes [ ] No
Date of Site Visit	8/7/2014
Waterbody Impaired?	[ ] Yes [x] No
Antidegradation	[ ] Yes [x] No
Waterbody Tier Level	Tier I
Use Support Category	4B
Other Point Sources?	[x] Yes [ ] No

Print Record | Close Form

Date of WLA Response	8/22/2014
Lat/Long Method	GPS

Approved TMDL? [ ] Yes [x] No

Approval Date of TMDL:

Permit Information

Permit Number	AL0003247
Permit Status	Active

Type of Discharger
- [ ] Municipal
- [x] Industrial
- [ ] Semipublic/Private
- [ ] Mining

Sources Included in Model
- ABC Coke
- Walter Coke
- Fivemile WWTP
- Forestdale MHP
- Sharon Heights MHP
- Brookside Village WWTP (via Newfound Creek)
- Prudes Creek WWTP

Waste Load Allocation Information

Modeled Reach Length	35.48 Miles	Date of Allocation	8/11/2014
Name of Model Used	SWQM	Allocation Type	2 Seasons
Model Completed by	James Mooney	Type of Model Used	Calibrated
Allocation Developed by	Water Quality Branch		

Waste Load Allocation Summary

Annual Effluent Limits			Conventional Parameters			Conventional Parameters			Other Parameters			Other Parameters		
Qw		MGD	Qw	4.73	MGD	Qw	4.73	MGD	Qw		MGD	Qw		MGD
			Season	Summer		Season	Winter		Season			Season		
			From	May		From	Dec		From			From		
			Through	Nov		Through	Apr		Through			Through		
CBOD5		mg/L	CBOD5	6.43	mg/L	CBOD5	16.65	mg/L	TP		mg/L	TP		mg/L
NH3-N		mg/L	NH3-N	0.75	mg/L	NH3-N	2.5	mg/L	TN		mg/L	TN		mg/L
TKN		mg/L	TKN	2.96	mg/L	TKN	10	mg/L	TSS		mg/L	TSS		mg/L
D.O.		mg/L	D.O.	5	mg/L	D.O.	5	mg/L			mg/L			mg/L

"Monitor Only" Parameters for Effluent:	Parameter	Frequency	Parameter	Frequency
	TP	Monthly(Apr-Oct)		
	NO2+NO3-N	Monthly(Apr-Oct)		

Water Quality Characteristics Immediately Upstream of Discharge

Parameter	Summer		Winter	
CBODu	25.409	mg/l	59.637	mg/l
NH3-N	0.5572	mg/l	0.6125	mg/l
Temperature	28	°C	18	°C
pH	7	su	7	su

Hydrology at Discharge Location

Drainage Area Qualifier				Method Used to Calculate
Estimated	Drainage Area	29.86	sq mi	
	Stream 7Q10	6.27	cfs	ADEM Estimate w/USGS Gage Data
	Stream 1Q10	4.7	cfs	75%of 7Q10
	Stream 7Q2	7.7	cfs	ADEM Estimate w/USGS Gage Data
	Annual Average	46.56	cfs	ADEM Estimate w/USGS Gage Data

Comments and/or Notations

The Walter Coke effluent flowrate has decreased from the previous modeled flowrate (2003 WLA) of 5.63 MGD down to 4.73 MGD. A calibrated Spreadsheet Water Quality Model, developed by the Department, was used for this wasteload allocation.

If comments are made, check the "yes" box at the top of page one.

Last Revision: 07/15/09

LANCE R. LEFLEUR
DIRECTOR

ROBERT J. BENTLEY
GOVERNOR

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Montgomery, Alabama 36130-1463
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Memorandum

To: Walter Coke Inc. WLA File
Facility: Walter Coke Inc. – NPDES # AL0003247
Discharge Location: 33.585306, -86.791090
Receiving Water Body: Fivemile Creek
Effluent Flow Rate: 4.73 MGD
Date: August 22, 2014

A two season waste load allocation was requested by Alex Chavers, of the NPDES Industrial Section, for Walter Coke Inc. Walter Coke burns coal in large ovens to produce foundry coke and furnace coke as the final products. The process wastewater originates from the steam and other byproducts produced in the coke ovens. The process wastewater is treated using a mechanical biological treatment facility before being discharged into Fivemile Creek. The Walter Coke effluent flowrate has decreased from the previous modeled flowrate (2003 WLA) of 5.63 MGD down to 4.73 MGD.

A calibrated Spreadsheet Water Quality Model, developed by the Department, was used for this wasteload allocation. The input parameters used in the calibrated model were derived from several water quality studies conducted by both ADEM and the EPA on Fivemile Creek in 1986, 1994, and 1998. The model consists of 17 individual segments with a total stream length of 35.48 miles. The modeled reach begins on Fivemile Creek at the USGS 02457000 Ketona Gage and ends at the mouth of Fivemile Creek on the Locust Fork.

The following effluent limits are required to maintain a minimum dissolved oxygen in Fivemile Creek will above 5.0 mg/l during critical conditions, and are therefore considered protective of water quality.

Walter Coke Inc. NPDES # AL0003247
Qw = 4.73 MGD

	Summer Season		Winter Season	
Parameter	**Concentration (mg/L)**	**Load (ppd)**	**Concentration (mg/L)**	**Load (ppd)**
CBOD5	6.43	254	16.65	657
NH3-N	0.75	30	2.50	99
TON	2.21	87	7.50	296
TKN	2.96	117	10.00	394
DO	5	-	5	-

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)

Rationale

Facility: Walter Coke Inc. – NPDES # AL0003247

Discharge Location: 33.585306, -86.791090

Receiving Water Body: Fivemile Creek

Effluent Flow Rate: 4.73 MGD

Date: August 11, 2014

Introduction:

A two season waste load allocation was requested by Alex Chavers, of the NPDES Industrial Section, for Walter Coke Inc. Walter Coke burns coal in large ovens to produce foundry coke and furnace coke as the final products. The wastewater originates from the steam and other byproducts produced in the coke ovens. The process wastewater is treated using a mechanical biological treatment facility before being discharged into Fivemile Creek. The Walter Coke effluent flowrate has decreased from the previous modeled flowrate (2003 WLA) of 5.63 MGD down to 4.73 MGD.

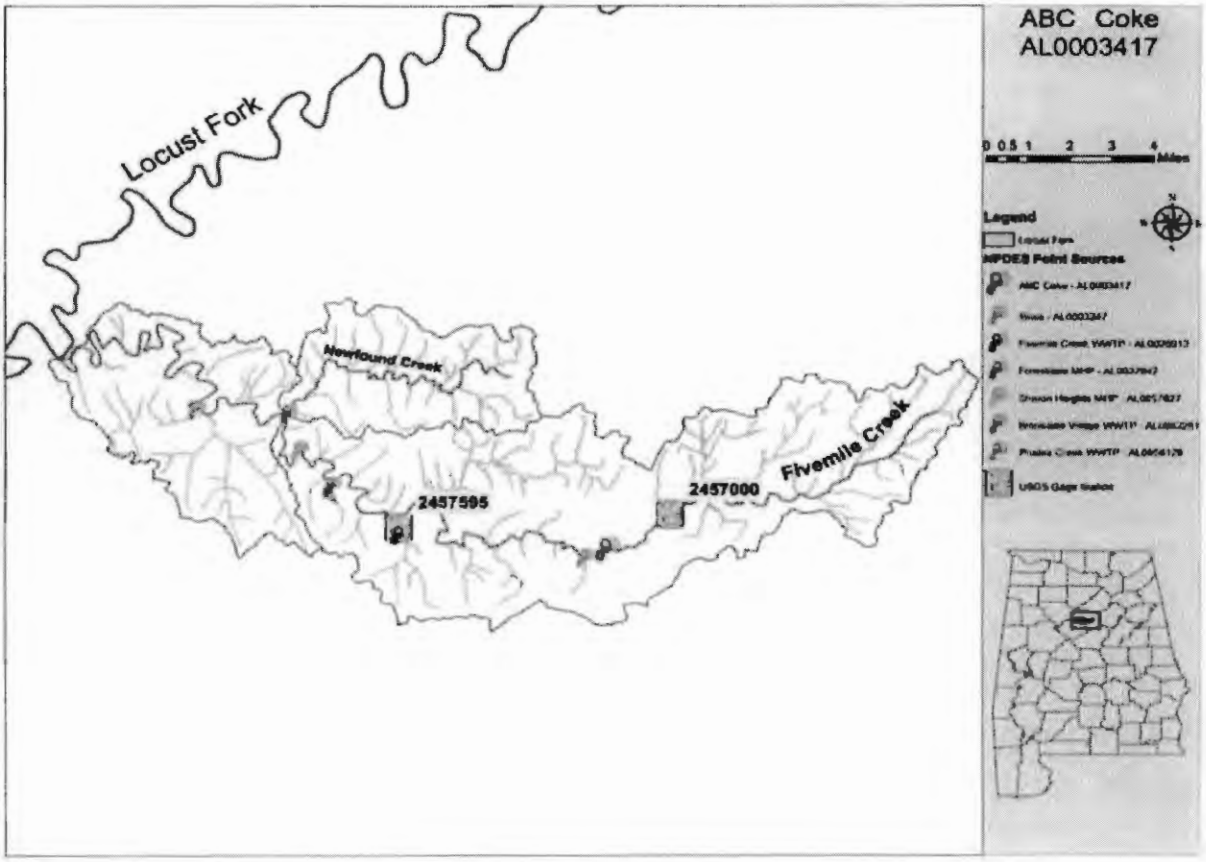
Low Flow Calculations:

During the previous modeling efforts the headwater, incremental, and tributary flows used in the Fivemile Creek spreadsheet model were based on the 7Q10 flow conditions calculated from two realtime USGS gages on Fivemile Creek. Furthermore, the winter seasonal model used the December monthly 7Q10 flow (opposed to the traditional 7Q2 flow for winter season). The December monthly 7Q10 flow value is less than the 7Q2 flow value, and therefore considered a more conservative approximation of critical flow conditions during the winter seasonal period. In order to remain consistent with previous modeling efforts, the December monthly 7Q10 flows were used in this analysis for the winter seasonal allocation.

The most upstream Fivemile Creek USGS gage is 02457000 FIVEMILE CREEK AT KETONA. This gage is located approximately 2.8 miles upstream of the Walter Coke outfall. The drainage area of Fivemile Creek at USGS 02457000 is 23.90 miles^2. Both the summer season 7Q10 headwater flow and the winter December monthly 7Q10 flows have slightly changed from the previous modeling efforts, based upon a longer available period of record at USGS 02457000. The summer season 7Q10 flow increased from 4.60 cfs to 5.02 cfs. The winter December monthly 7Q10 flow decreased from 6.58 cfs to 6.16 cfs.

The next USGS gage on Fivemile Creek is 02457595 FIVEMILE CREEK NEAR REPUBLIC,AL. This USGS gage is located approximately 7.9 miles downstream of the Walter Coke discharge. The tributary and incremental flows used in the model are based upon an analysis of the low flow conditions from both USGS gage 02457000 and USGS 02457595 after the point sources have been subtracted. The figure below illustrates the location of the realtime USGS gages on Fivemile Creek.

Figure 1. Realtime USGS Gage on Fivemile Creek



Modeled Reach Description:

A calibrated Spreadsheet Water Quality Model, developed by the Department, was used for this wasteload allocation. The input parameters used in the calibrated model were derived from several water quality studies conducted by both ADEM and the EPA on Fivemile Creek in 1986, 1994, and 1998.

The model consists of 17 individual segments with a total stream length of 35.48 miles. The modeled reach begins at the USGS 02457000 Ketona Gage and ends at the mouth of Fivemile Creek on the Locust Fork. The segment lengths and elevations were re-evaluated from the previous modeling effort (2003) and several significant changes were made to the reach lengths based upon a more accurate approximation through the use of GIS.

Fivemile Creek SWQM Background

Both ABC Coke (AL0003417) and Walter Coke Inc. (AL0003427) discharge to Fivemile Creek, and their outfalls are separated by only 0.68 stream miles. Due to their close proximity to each other, in previous modeling efforts load reductions were uniformly made to both facilities for $CBOD_5$, NH_3-N, and TON in lbs/day until an in-stream minimum dissolved oxygen concentration of 5.0 mg/L (F&W) was attained.

A WLA was completed in March 2014 to address an increase in effluent flowrate for ABC Coke. Due to a steady increase in production over the past few years, the ABC Coke effluent flowrate had increased to 0.40391 MGD from the previous modeled (2003) flowrate of 0.3 MGD. As a result of the increased effluent flowrate, a reduction to the ABC Coke effluent limits was necessary in order to maintain an in-stream minimum dissolved oxygen concentration of 5.0 mg?l (F&W) in the model. However, unlike previous modeling efforts, the load reduction was focused solely to ABC Coke, since this facility was ultimately responsible for the increase in production and 00.the resultant effluent flowrate.

For this WLA, the Walter Coke effluent flowrate has decreased and therefore the Industrial Branch has requested an updated WQ model to reflect this change. Due to the closure of a fiber plant and other production processes at the Walter Coke facility, the effluent flowrate has decreased from 5.63 MGD down to 4.73 MGD.

In the previous NPDES permit, Walter Coke was given both concentration based effluent permit limits and mass based effluent permit limits (loading in ppd). Given a reduction in effluent flowrate, Walter Coke will be allowed to maintain their existing pollutant loading to Fivemile Creek by increasing the $CBOD_5$, NH_3-N, and TON concentrations, assuming of course an in-stream minimum dissolved oxygen concentration of 5.0 mg/l is maintained in the water quality model.

Model Output Evaluation

In the summer and winter seasonal models, the existing $CBOD_5$, NH_3-N, and TON loads were preserved by decreasing the effluent flow rate to 4.73 MGD and increasing the pollutant concentrations to the values shown in the table below. A minimum dissolved concentration of 5.0 mg/L was maintained in the summer and winter seasonal models under this scenario.

	Summer Season		Winter Season	
Parameter	Concentration (mg/L)	Load (ppd)	Concentration (mg/L)	Load (ppd)
CBOD5	6.43	254	16.65	657
NH3-N	0.75	30	2.50	99
TON	2.21	87	7.50	296
TKN	2.96	117	10.00	394
DO	5	-	5	-

Based upon the model output, there are two predicted dissolved oxygen sags in Fivemile Creek. The first DO sag is predicted to occur in model Segment 3, immediately downstream of the ABC Coke and Walter Coke Discharge. The second DO sag is predicted to occur in model Segment 11, downstream of the Newfound Creek confluence with Fivemile Creek. The predicted CBODu, NH_3-N, and TON concentrations at the end of the modeled reach are approaching background conditions; therefore it is not necessary to assess the downstream impacts on the Locust Fork.

Fivemile Creek

Walter Coke WLA

Revised August 2014

$7Q_{10}$ (cfs): 5.02

$7Q_{10(Dec.)}$ (cfs): 6.16

D.A. (miles^2): 23.9

USGS 02457000 Ketona Gage

EL 546.6 ft

DH= 28.38 ft

Avg El=532.52 ft

L (mi): 2.118

EL 518.44 ft

Seg 1

IF_{summer} (cfs): 0.220

IF_{winter} (cfs): 0.683

ABC Coke

5 ft Concrete Dam

Qw (MGD): 0.40391

Flow (cfs): 0.62

DH= 15.54 ft

Avg El=510.67 ft

L (mi): 0.686

Seg 2

IF_{summer} (cfs): 0.235

IF_{winter} (cfs): 0.730

Walter Coke Inc.

EL 502.9 ft

Qw (MGD): 4.73

Flow (cfs): 7.32

DH= 22.9 ft

Avg El=491.45 ft

L (mi): 2.166

Seg 3

IF_{summer} (cfs): 0.273

IF_{winter} (cfs): 0.847

EL 480.0 ft

DH= 65.24 ft

Avg El=447.38 ft

L (mi): 4.316

Seg 4

IF_{summer} (cfs): 0.507

IF_{winter} (cfs): 1.577

Black Creek

EL 414.76 ft

$7Q_{10}$ (cfs): 0.787

$7Q_{10(Dec.)}$ (cfs): 2.45

D.A. (miles^2): 10.4

DH= 18.28 ft

Avg El=405.62 ft

L (mi): 1.415

Seg 5

IF_{summer} (cfs): 0.098

IF_{winter} (cfs): 0.306

USGS 02457595 Republic Gage

Fivemile WWTP

EL 396.48 ft

Qw (MGD): 30

Flow (cfs): 46.42

DH= 16.48 ft

Avg El=388.24 ft

L (mi): 1.866

Seg 6

IF_{summer} (cfs): 0.372

IF_{winter} (cfs): 0.484

EL 380 ft

DH= 13.25 ft

Avg El=373.37 ft

L (mi): 1.892

Seg 7

IF_{summer} (cfs): 0.377

IF_{winter} (cfs): 0.491

Forestdale MHP

EL 366.75 ft

Qw (MGD): 0.03

Flow (cfs): 0.05

DH= 6.75 ft

Avg El=363.37 ft

L (mi): 1.539

Seg 8

IF_{summer} (cfs): 0.307

IF_{winter} (cfs): 0.399

EL 360 ft

DH= 5.5 ft

Avg El=357.25 ft

L (mi): 1.628

Seg 9

IF_{summer} (cfs): 0.325

IF_{winter} (cfs): 0.422

Sharron Heights MHP

EL 354.5 ft

Qw (MGD): 0.003

Flow (cfs): 0.005

DH= 5.5 ft

Avg El=351.75 ft

L (mi): 2.147

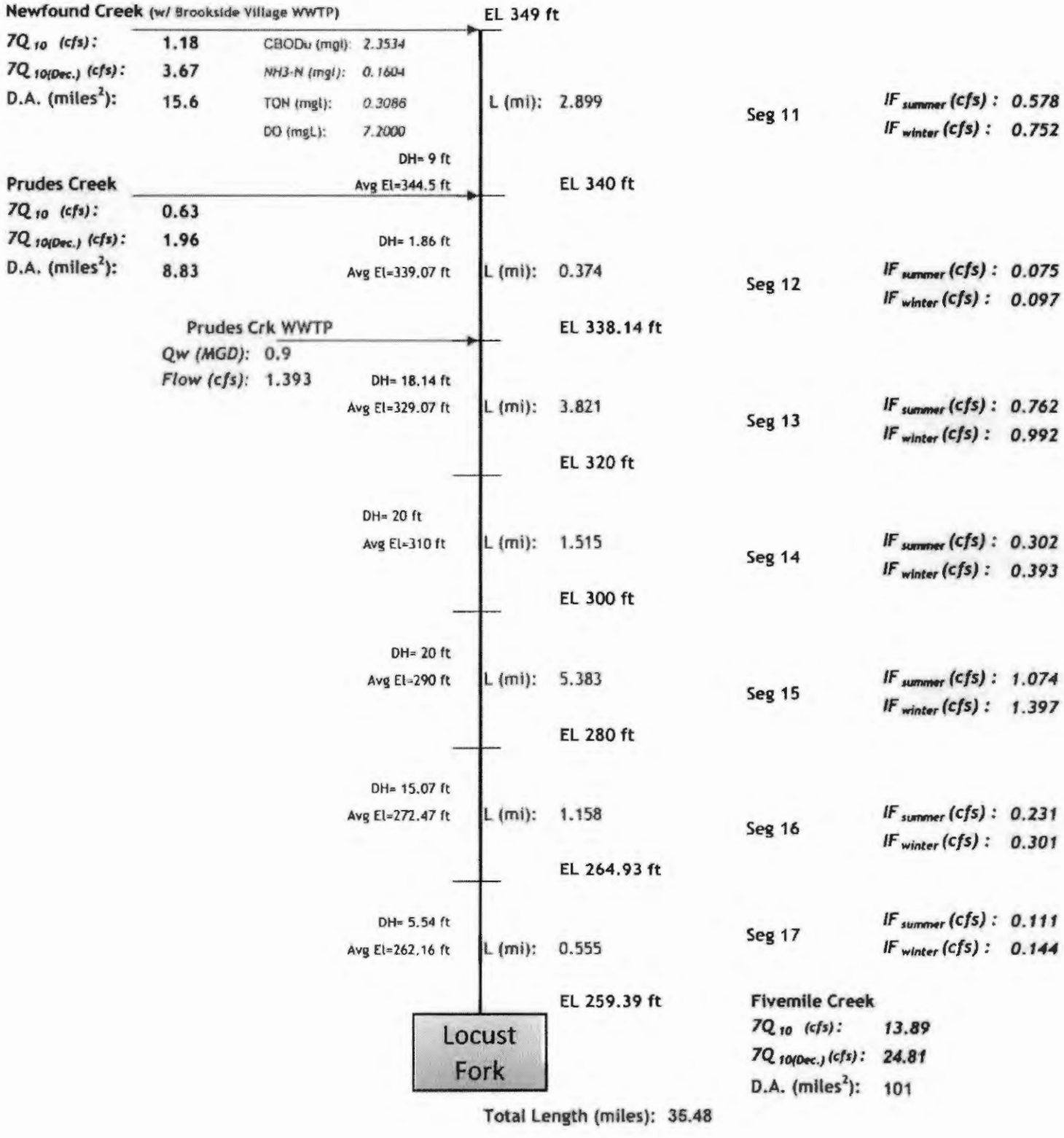
Seg 10

IF_{summer} (cfs): 0.428

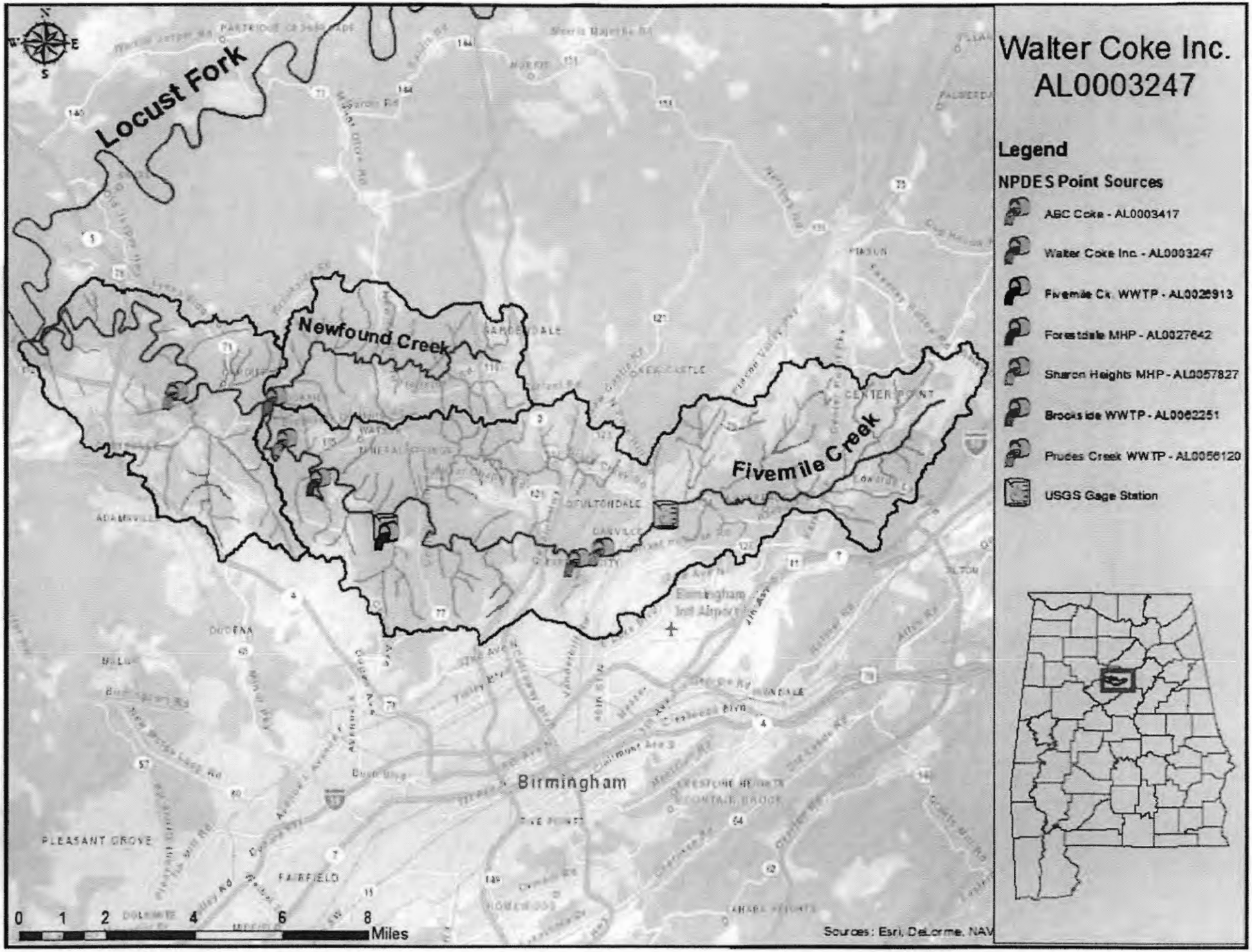
IF_{winter} (cfs): 0.557

EL 349 ft

Fivemile Creek (cont)



Total Length (miles): 35.48


Locust Fork
Newfound Creek
Fivemile Creek
Birmingham
PLEASANT GROVE
FAIRFIELD
0 1 2 4 6 8
Miles
Sources: Esri, DeLorme, NAV
Walter Coke Inc.
AL0003247
Legend
NPDES Point Sources
ABC Coke - AL0003417
Walter Coke Inc. - AL0003247
Fivemile Cr. WWTP - AL0026913
Forestdale MHP - AL0027642
Sharon Heights MHP - AL0057827
Brookside WWTP - AL0062251
Prudes Creek WWTP - AL0056120
USGS Gage Station

Aug-14

Tributary and Incremental Flow Calculations

USGS Gauge	Rivermile	Drainage Area (sq mi.)	Location	7Q10	7Q10(December)
Ketona	35.2	23.9	100 yards downstream of US 79 in Tarrant	5.02	6.16
Republic	24.8	51.9	1000 feet upstream of Fivemile WWTP Outfall	15.08	20.69
Diff b/t gauges	10.4	28	n/a	10.06	14.53
Subtracting out wasteflows you get the following:			ABC Coke Effluent Flowrate (cfs)	0.62	0.62
			Sloss Industries Effluent Flowrate (cfs)	7.32	7.32
			Remaining flow less point sources discharges	**2.12**	**6.59**
			Republic (less wasteflow)	7.14	12.75
			Republic cfs/mi^2	0.1376	0.2457
			Ketona to Republic (less waste flow)	2.12	6.59
			Ketona to Republic cfs/mi^2	**0.0757**	**0.2354**
Subtracting out tributary flow you get the following:			Black Creek	0.787	2.448
			Remaining flow (i.e. incremental flow)	1.333	4.142

Flows updated to reflect USGS realtime gage period of record to 09/30/2013

Point source effluent flow rates updated to be reflective of permited conditions - 8/4/2014

Aug-14

Summer Season - Incremental Flow Calculations

Drainage Area (mi2)	
Ketona USGS Gage DA	23.9
Republic USGS Gage DA	51.9
Fivemile Ck @ ABC POD DA	26.8
Fivemile Ck @ Walter Coke POD DA	29.9
Fivemile CK @ El 480' DA	33.5
Black Creek (BC) DA	10.4
Newfound Creek DA	15.6
Prudes Creek DA	8.3
Fivemile Creek (w/o BC) DA	40.2

Tributary Flows	
Black Creek 7Q10 (cfs)	0.79
Newfound Creek 7Q10 (cfs)	1.18
Prudes Creek 7Q10 (cfs)	0.63

IF for Segments 1-5 Ketona To Republic

Segment	*IF (cfs)*	*Length (mi)*
Seg 1	0.220	2.118
Seg 2	0.235	0.686
Seg 3	0.273	2.166
Seg 4	0.507	4.316
Seg 5	0.098	1.415

IF = Flow End of Model - HW Flow - (Tribs)

Incremental Flow for Seg 6-Seg 17

Segment	*IF (cfs)*	*Length (mi)*
Seg 6	0.372	1.866
Seg 7	0.377	1.892
Seg 8	0.307	1.539
Seg 9	0.325	1.628
Seg 10	0.428	2.147
Seg 11	0.578	2.899
Seg 12	0.075	0.374
Seg 13	0.762	3.821
Seg 14	0.302	1.515
Seg 15	1.074	5.383
Seg 16	0.231	1.158
Seg 17	0.111	0.555
Sum	**4.94**	**24.777**

Incremental Flow (cfs) :	4.94
Incremental Flow / stream mile :	0.20
End of Model 7Q10 (cfs)	**13.89**

Aug-14

Winter Season - Incremental Flow Calculations

Drainage Area (mi2)	
Ketona USGS Gage DA	23.9
Republic USGS Gage DA	51.9
Fivemile Ck @ ABC POD DA	26.8
Fivemile Ck @ Walter Coke POD DA	29.9
Fivemile CK @ El 480' DA	33.5
Black Creek (BC) DA	10.4
Newfound Creek DA	15.6
Prudes Creek DA	8.3
Fivemile Creek (w/o BC) DA	40.2

Tributary Flows	
Black Creek 7Q10 (Dec)	2.45
Newfound Creek 7Q10 (Dec)	3.67
Prudes Creek 7Q10 (Dec)	1.96

IF for Segments 1-5 Ketona To Republic

Segment	*IF (cfs)*	*Length (mi)*
Seg 1	0.683	2.118
Seg 2	0.730	0.686
Seg 3	0.847	2.166
Seg 4	1.577	4.316
Seg 5	0.306	1.415

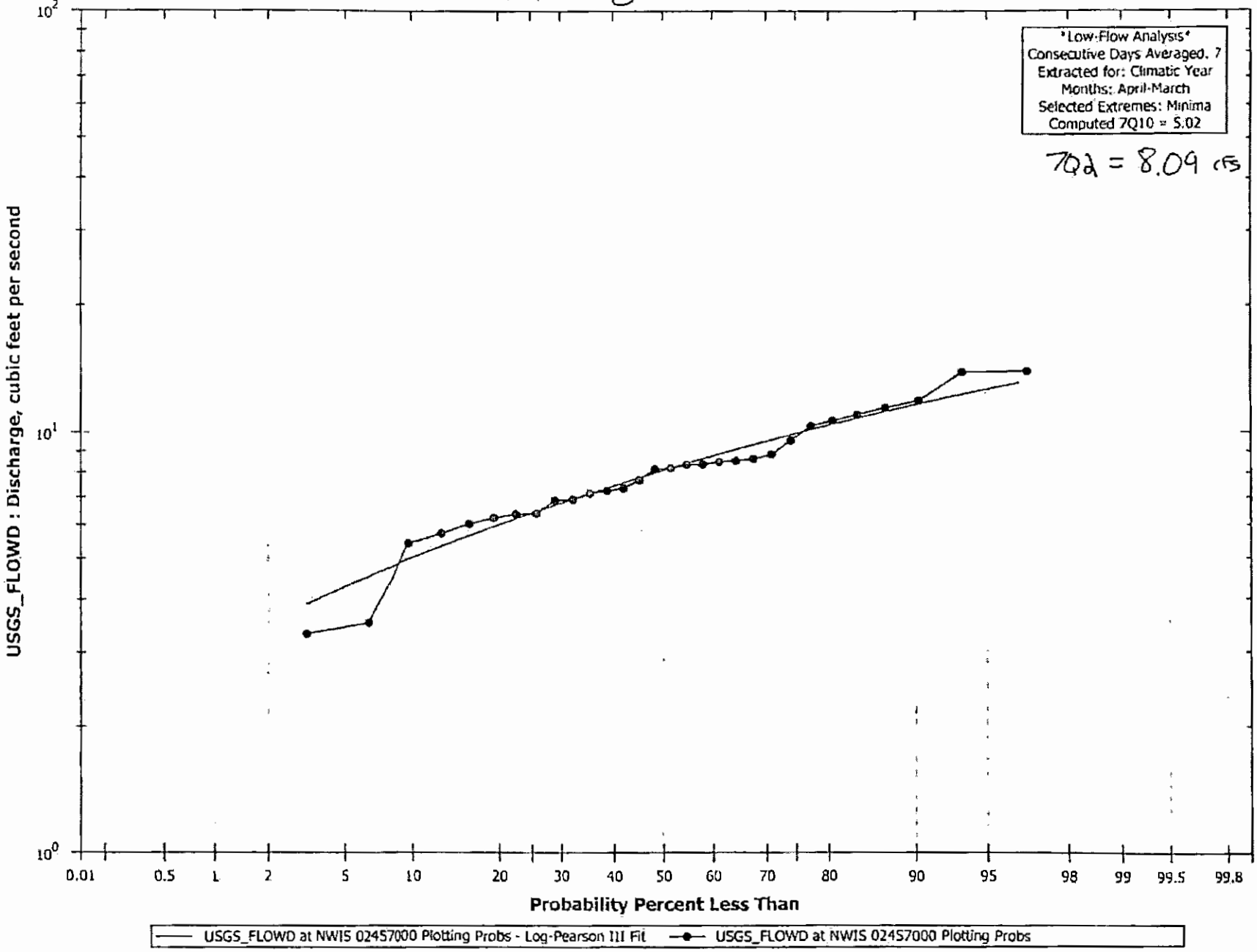
IF = Flow End of Model - HW Flow - (Tribs)

Incremental Flow for Seg 6-Seg 17

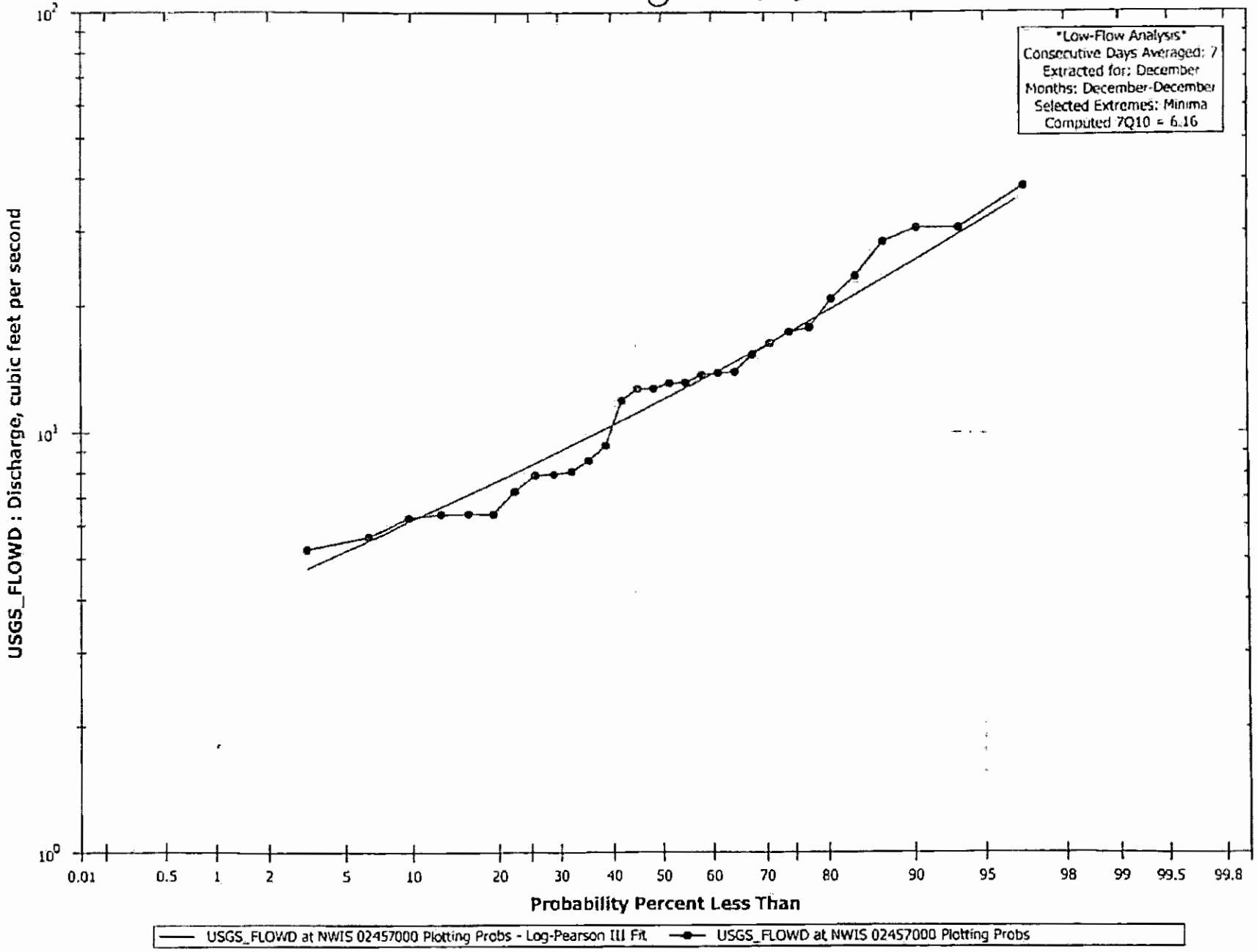
Segment	*IF (cfs)*	*Length (mi)*
Seg 6	0.484	1.866
Seg 7	0.491	1.892
Seg 8	0.399	1.539
Seg 9	0.422	1.628
Seg 10	0.557	2.147
Seg 11	0.752	2.899
Seg 12	0.097	0.374
Seg 13	0.992	3.821
Seg 14	0.393	1.515
Seg 15	1.397	5.383
Seg 16	0.301	1.158
Seg 17	0.144	0.555
Sum	**6.43**	**24.777**

Incremental Flow (cfs) :	6.43
Incremental Flow / stream mile :	0.26
End of Model 7Q10(Dec.) (cfs)	**24.81**

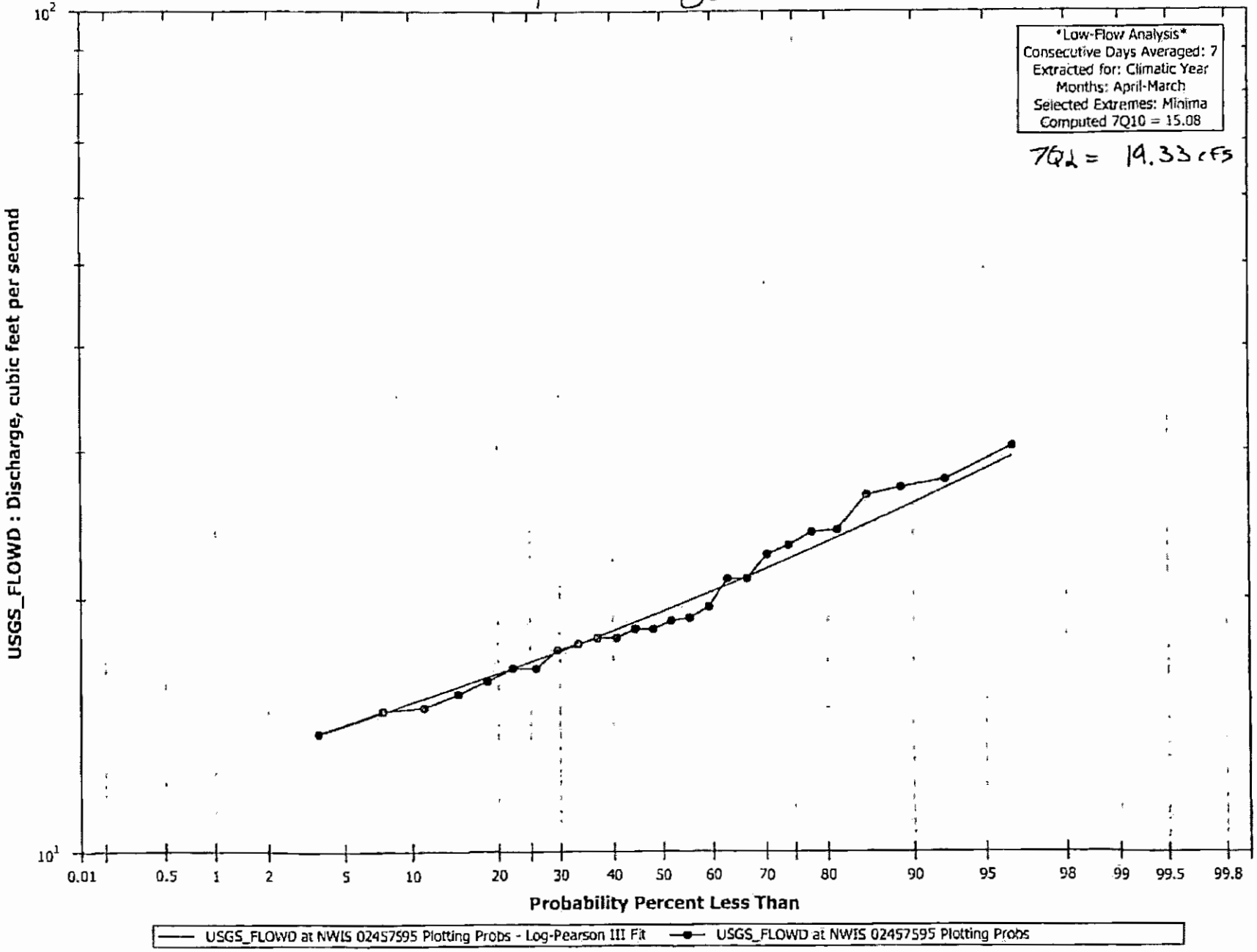
USGS 02457000 Ketona Gage



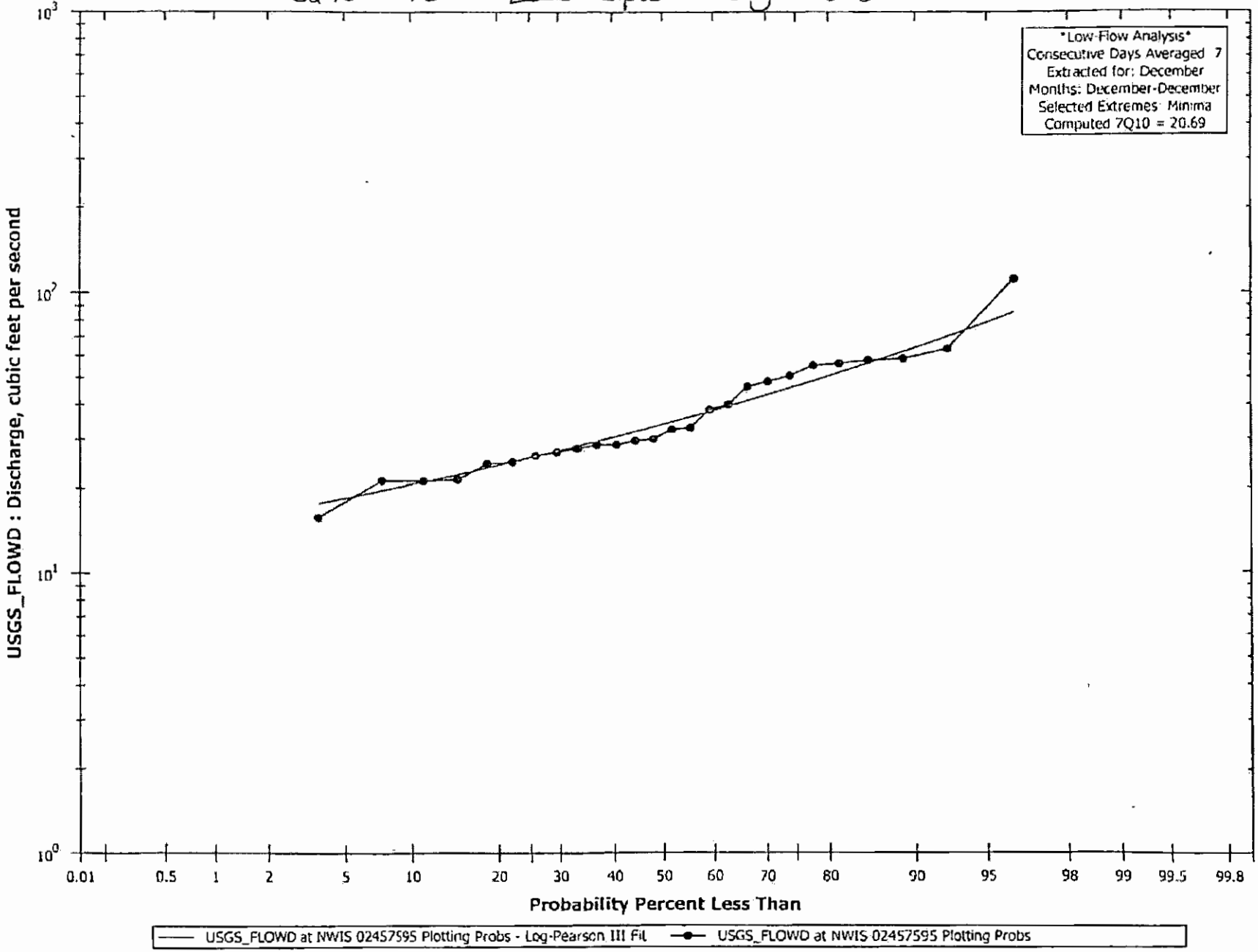
USGS 02457000 Ketowa Gage - Decembers



USGS 02457595 Republic Gage



USGS 02457595 ~~Eato~~ Republic Gage - December



Chavers, Alexander

From: Chavers, Alexander
Sent: Friday, October 16, 2020 9:26 AM
To: Wahlstrom-Ramler, Meghan
Subject: RE: Questions regarding AL0003247 - Bluestone Coke
Attachments: Walter Coke Five Mile Creek.pdf; RE: Questions regarding AL0003247 - Bluestone Coke

To help our discussion regarding Bluestone Coke's draft NPDES permit, I am providing the following responses to the questions posed below:

1) At the time of drafting, this facility was neither on the 303(d) List nor was a TMDL available (as listed on ADEM's website). A WLA was performed in 2014 to determine limitations for CBOD and nutrients, and according to the summary and memo, a TMDL was not considered. After following up with our water quality branch, I was sent the **attached email response**.
2) Please see the attached analytical results for upstream sampling of Five Mile Creek. This information was previously submitted to Karrie-Jo back in 2014 on questions she had regarding an earlier draft of this permit.
3) The limits for CBOD, Ammonia, and TKN at DSN001 are taken directly from the WLA performed in 2014. These limits are consistent with previous permits.
4) Phenol monitoring can be added to DSN001; however, based on previous monitoring results at DSN001B, this would likely result in a lot of monitoring that shows "Below Detection" rather than any useful data. The dilution in the pond following DSN001B is simply too large to allow the small amounts of Phenols discharged DSN001B to be detectable in the final discharge under most circumstances (e.g. Daily Max of 0.14 lbs/day at 4.73 MGD gives a concentration of 0.0035 mg/L or 3.5 ug/L, which is detectable but at the very low end of the range).
5) I'll do a review of all units to be sure they are consistent throughout. Thank you for mentioning this.

I look forward to speaking with you today regarding this permit.

Alexander Chavers, P.E.
Env. Eng. Specialist, Sr.
Industrial Section
Industrial/Municipal Branch
(334) 271-7851
ADEM
Alabama Department of Environmental Management

From: Wahlstrom-Ramler, Meghan <Wahlstrom-Ramler.Meghan@epa.gov>
Sent: Friday, October 9, 2020 9:14 AM
To: Chavers, Alexander <adchavers@adem.alabama.gov>
Subject: Questions regarding AL0003247 - Bluestone Coke

Thank you for sending along the RPA previously. I was wondering if you had any time on Wed (10/4) to discuss questions I had regarding the permit and limit development. My day is wide open so let me know if you are available and what time would work best for you. My Section Chief, Craig Hesterlee, may join as well if his schedule permits. The topics I'm hoping to cover are below:

1) Per an undated memo provide by ADEM to R4 Monitoring, Assessment, Listing, and TMDL section, the portion of Fivemile Creek that Bluestone Coke discharges to was upgraded from A&I to F&W in 2003. According the latest

assessment (2016) that I can find in WATERS Geoviewer, the waterbody is impaired for ammonia, benzo(a)pyrene, CBOD, cyanide, and zinc https://ofmpub.epa.gov/waters10/attains_waterbody.control?p_au_id=AL03160111-0407-101&p_cycle=2016). The waterbody is not included on the 303(d) list since the classification is Category 4(b); however, WATERS Geoviewer notes that there is an applicable TMDL alternative. I had some questions about what the TMDL alternative consists of and what impacts, if any, it might have on the discharge from Bluestone Coke.

2) Discussion regarding the instream sampling data used to determine the background concentrations of metals. My questions mostly focus around how many samples were collected, when they were collected, and how the numbers provided in the application were calculated (max background, average background, etc)
3) I had a few questions about the development of the ammonia and CBOD limits at 001. This is ties back into the first discussion topic where WATERS Geoviewer indicates that the receiving stream is impaired for both ammonia and CBOD.
4) I had a question about the possibility of adding in phenol monitoring to Outfall 001 based on the fact that it's included in the ELG requirements for 01B.
5) This isn't really a discussion topic, but you might want to check the units for cyanide monthly average in the permit. It's listed at mg/L and I think you meant ug/L.

Thank you,

Meghan Wahlstrom

Meghan Wahlstrom | Environmental Engineer
Water Division | Permitting & Grants Branch | NPDES Permitting Section
Region 4 | Atlanta Federal Center | 61 Forsyth Street SW | Atlanta, GA 30303
(404) 562-9316 | wahlstrom-ramler.meghan@epa.gov

Chavers, Alexander

From: Straiton, Jonathan B
Sent: Thursday, October 15, 2020 1:56 PM
To: Chavers, Alexander
Subject: RE: Questions regarding AL0003247 - Bluestone Coke

Alex,

I have some documentation from a meeting that took place back in 2006 over this very thing. Below is an excerpt:

"Based on discussions with the State via conference call on October 4, 2006, regarding the assessment of Five Mile Creek, EPA determined that the current NPDES permit requirements for point sources that discharge to Five Mile Creek are anticipated to be sufficient to result in the attainment of WQS. These point sources are anticipated to be the only sources of impairment to Five Mile Creek based on biological monitoring upstream of the influence of point sources which indicated full use support of the designated uses. Permit requirements for these facilities include water quality-based effluent limits which the State expects to be sufficient to ensure the protection of WQS."

Does this answer your question or do you need further information?

Jonathan

From: Chavers, Alexander
Sent: Thursday, October 15, 2020 10:26 AM
To: Straiton, Jonathan B <jonathan.straiton@adem.alabama.gov>
Subject: FW: Questions regarding AL0003247 - Bluestone Coke

Jonathan,

Can you comment on Question 1 below? A WLA was performed in 2014 so I'm not sure any of this is having an impact on the limitations.

I have a call tomorrow at 1pm with EPA if you have a chance to look at this before then (I apologize for the short notice).

Alexander Chavers, P.E.
Env. Eng. Specialist, Sr.
Industrial Section
Industrial/Municipal Branch
(334) 271-7851

From: Wahlstrom-Ramler, Meghan <Wahlstrom-Ramler.Meghan@epa.gov>
Sent: Friday, October 9, 2020 9:14 AM

To: Chavers, Alexander <adchavers@adem.alabama.gov>
Subject: Questions regarding AL0003247 - Bluestone Coke

Thank you for sending along the RPA previously. I was wondering if you had any time on Wed (10/4) to discuss questions I had regarding the permit and limit development. My day is wide open so let me know if you are available and what time would work best for you. My Section Chief, Craig Hesterlee, may join as well if his schedule permits. The topics I'm hoping to cover are below:

1) Per an undated memo provide by ADEM to R4 Monitoring, Assessment, Listing, and TMDL section, the portion of Fivemile Creek that Bluestone Coke discharges to was upgraded from A&I to F&W in 2003. According the latest assessment (2016) that I can find in WATERS Geoviewer, the waterbody is impaired for ammonia, benzo(a)pyrene, CBOD, cyanide, and zinc https://ofmpub.epa.gov/waters10/attains_waterbody.control?p_au_id=AL03160111-0407-101&p_cycle=2016). The waterbody is not included on the 303(d) list since the classification is Category 4(b); however, WATERS Geoviewer notes that there is an applicable TMDL alternative. I had some questions about what the TMDL alternative consists of and what impacts, if any, it might have on the discharge from Bluestone Coke.
2) Discussion regarding the instream sampling data used to determine the background concentrations of metals. My questions mostly focus around how many samples were collected, when they were collected, and how the numbers provided in the application were calculated (max background, average background, etc)
3) I had a few questions about the development of the ammonia and CBOD limits at 001. This is ties back into the first discussion topic where WATERS Geoviewer indicates that the receiving stream is impaired for both ammonia and CBOD.
4) I had a question about the possibility of adding in phenol monitoring to Outfall 001 based on the fact that it's included in the ELG requirements for 01B.
5) This isn't really a discussion topic, but you might want to check the units for cyanide monthly average in the permit. It's listed at mg/L and I think you meant ug/L.

Thank you,

Meghan Wahlstrom

Meghan Wahlstrom | Environmental Engineer
Water Division | Permitting & Grants Branch | NPDES Permitting Section
Region 4 | Atlanta Federal Center | 61 Forsyth Street SW | Atlanta, GA 30303
(404) 562-9316 | wahlstrom-ramler.meghan@epa.gov

Chavers, Alexander

From: Don Wiggins <dwiggins@bluestonecoke.com>
Sent: Friday, September 11, 2020 11:59 AM
To: Chavers, Alexander; Charles Jones
Cc: Donnie Lane
Subject: RE: Draft Permit
Attachments: ADEM Draft Permit Comments 09112020.pdf

Alex

Please see the attached letter with our comments on the draft permit. If you have any questions feel free to contact me.

Thanks,

Don Wiggins
Bluestone Coke, LLC

From: Chavers, Alexander [mailto:adchavers@adem.alabama.gov]
Sent: Friday, September 11, 2020 9:35 AM
To: Charles Jones
Cc: Don Wiggins
Subject: Draft Permit

Good morning,

I wanted to follow up on the draft permit (attached for convenience) to see if you would be submitting comments or if you have any questions or concerns. If there are no substantial comments, we can proceed to public notice in October.

Please let me know as soon as possible. Thanks and have a great day!

Alexander Chavers, P.E.
Env. Eng. Specialist, Sr.
Industrial Section
Industrial/Municipal Branch
(334) 271-7851
ADEM
Alabama Department of Environmental Management

Bluestone Coke, LLC
3500 35th Avenue North
Birmingham, AL 35207
(205) 808-7803

September 11, 2020

Mr. Alex Chavers
Industrial Section – Industrial/Municipal Branch
Water Division
ADEM
1400 Coliseum Blvd
Montgomery, AL 36110-2400

RE: Draft NPDES Permit Number AL00003247
Bluestone Coke, LLC
3500 35th Avenue
Birmingham, AL 35207

Dear Alex:

We have reviewed the above referenced draft NPDES permit and have prepared the following comments and requests:

1. DSN001T

   The draft permit requires monthly chronic definitive toxicity testing with replicates of 61% effluent, a control and a minimum of four serial dilutions of 20%, 40%, 90%, and 100% effluent.

   The site has performed chronic toxicity testing since July 2003 at a frequency of monthly. During the time period of July 2003 to present the site has passed all chronic definitive toxicity tests with the exception of a failure due to an oil spill by US Pipe, discharged through DSN0011.

   We request that the frequency of monitoring be reduced from 1/Month to 1/quarter. We also request that the chronic test be a chronic screening at an IWC of 61%.

2. DSN01B1, DSN01B2, DSN01B3, DSN01BQ, DSN01B1Q,DSN1B2Q, DSN1B3Q

   Groundwater from Arichem is no longer discharged through the outfalls listed above.

3. DSN0011

We request that selenium, total recoverable be changed to dissolved selenium.

We also request that the frequency be Monthly instead of Weekly.

If you have any questions or would like additional information, please give me a call.

Sincerely,

Don Wiggins
Representative of the Company

Bluestone Coke, LLC
3500 35th Avenue North
Birmingham, AL 35207
(205) 808-7803

July 10, 2020

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

Alex,

Bluestone Coke, LLC is pleased to comply with your request for updated forms as it relates to our NPDES Individual Permit Application submittal for Reissuance of Existing Permit. We understand that this request is due to the fact that our company has changed names since the initial timely submission.

In the attached documents you will find:

ADEM Form 187
EPA Form 1
EPA Form 2C
EPA Form 2F

The EPA Form 2C does include the previous submitted Tables for review. If you have any questions feel free to contact me either by email at dwiggins@bluestonecoke.com or by phone at 205/808-7972.

Sincerely,

Don Wiggins
Representative of the Company
Bluestone Coke, LLC

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

RECEIVED
JUL 17 2020
IND/MUN BRANCH

1. Facility Name: Bluestone Coke, LLC
2. NPDES Permit Number: AL 0003247 (not applicable if initial permit application)
3. SID Permit Number (if applicable): IU
4. NPDES General Permit Number (if applicable): ALG
5. Facility Location (Front Gate): Latitude: 33 deg 33 min 44.17 sec N Longitude: 86 deg 48 min 7.05 sec W
7. Responsible Official (as described on the last page of this application):

   Name: Tiger Lambert Title: Representative of the Company

   Address: 3500 35th Avenue N

   City: Birmingham State: Alabama Zip: 35207

   Phone Number: 540-761-4899 Email Address: tiger.lambert@bluestone-coal.com
8. Designated Discharge Monitoring Report (DMR) Contact:

   Name: Charles Jones Title: Representative of the Company

   Phone Number: 205-808-7712 Email Address: cjones@bluestonecoke.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:

    City: County: State: Zip:

    b) Parent Corporation of Applicant:

    Name:

    Address:

    City: State: Zip:

c) Subsidiary Corporation(s) of Applicant:

Name:_____

Address:_____

City:_____ State:_____ Zip:_____

d) Corporate Officers:

Name:_____

Address:_____

City:_____ State:_____ Zip:_____

Name:_____

Address:_____

City:_____ State:_____ Zip:_____

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

Name:_____

Address:_____

City:_____ State:_____ Zip:_____

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

Name:_____ Name:_____

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:_____

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):

Facility Name	Permit Number	Type of Action	Date of Action
NA - none			

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

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

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?

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

Current:	Flow Metering	☒ Yes	☐ No	☐ N/A
	Sampling Equipment	☒ Yes	☐ No	☐ N/A
Planned:	Flow Metering	☐ Yes	☐ No	☐ N/A
	Sampling Equipment	☐ Yes	☐ No	☐ 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:

ISCO 4230 Flow Meter and ISCO 3700 Series Sampler

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
See Attachment 1	

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): Birmingham Industrial Water 3.57 MGD

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

City: 0.110 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: Birmingham Water Works Board b) Location of Provider: Multiple surface intakes

   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
See Attachment 2	

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?	☐	☐
2.	Will the project be a source of new air emissions?	☐	☐
3.	Does the project involve dredging and/or filling of a wetland area or water way?	☐	☐
	If Yes, has the Corps of Engineers (COE) permit been received?	☐	☐
	COE Project No. _____		
4.	Does the project involve wetlands and/or submersed grassbeds?	☐	☐
5.	Are oyster reefs located near the project site?	☐	☐
	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)?	☐	☐
7.	Does the project involve mitigation of shoreline or coastal area erosion?	☐	☐
8.	Does the project involve construction on beaches or dune areas?	☐	☐
9.	Will the project interfere with public access to coastal waters?	☐	☐
10.	Does the project lie within the 100-year floodplain?	☐	☐
11.	Does the project involve the registration, sale, use, or application of pesticides?	☐	☐
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)?	☐	☐
	If yes, has the applicable permit for groundwater recovery or for groundwater well installation been obtained?	☐	☐

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?*	
0011	Five Mile Creek	☒ Yes	☐ No	☐ Yes	☒ No
		☐ Yes	☐ No	☐ Yes	☐ No
		☐ Yes	☐ No	☐ Yes	☐ No
		☐ Yes	☐ No	☐ Yes	☐ No
		☐ Yes	☐ No	☐ Yes	☐ 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: 7/10/20

Name: Tiger Lambert Title: Representative of the Company

If the Responsible Official signing this application is <u>not</u> 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.

ADEM Form 187 Attachment 1
Supplement to Section C.4
Walter Coke, Inc. - NPDES Permit No. AL0003247

Trade Name and Chemicals Composition of Biocides and Corrosion Inhibitors

Trade Name	Chemical Composition	96-hour Median Tolerance Limit Data	Quantities to be used	Frequency of use	Proposed Discharge Concentration	EPA Registration Number
ChemTreat CL401 (Dispersant)	Contains no hazardous ingredients defined in 29 CFR 1910.1200	Fathead Minnow - 87 mg/L	As needed	As needed	Typically do not discharge	None
ChemTreat CL49 (Cooling Water Microbiocide)	5-10% Sodium chlorosulfamate (17172-27-9) 7-13% Sodium bromosulfamate (134509-56-1) 5-10% Sodium hydroxide (1310-73-2)	Bluegill Sunfish - 3.8 mg/L Algae - 2.6 mg/L Inland Silverside - 8.9 mg/L	3,650 gal/year	As needed	Typically do not discharge	3377-55-15300

ADEM Form 187 Attachment 2
Supplement to Section E
Walter Coke, Inc. - NPDES Permit No. AL0003247

Waste Storage and Disposal Information

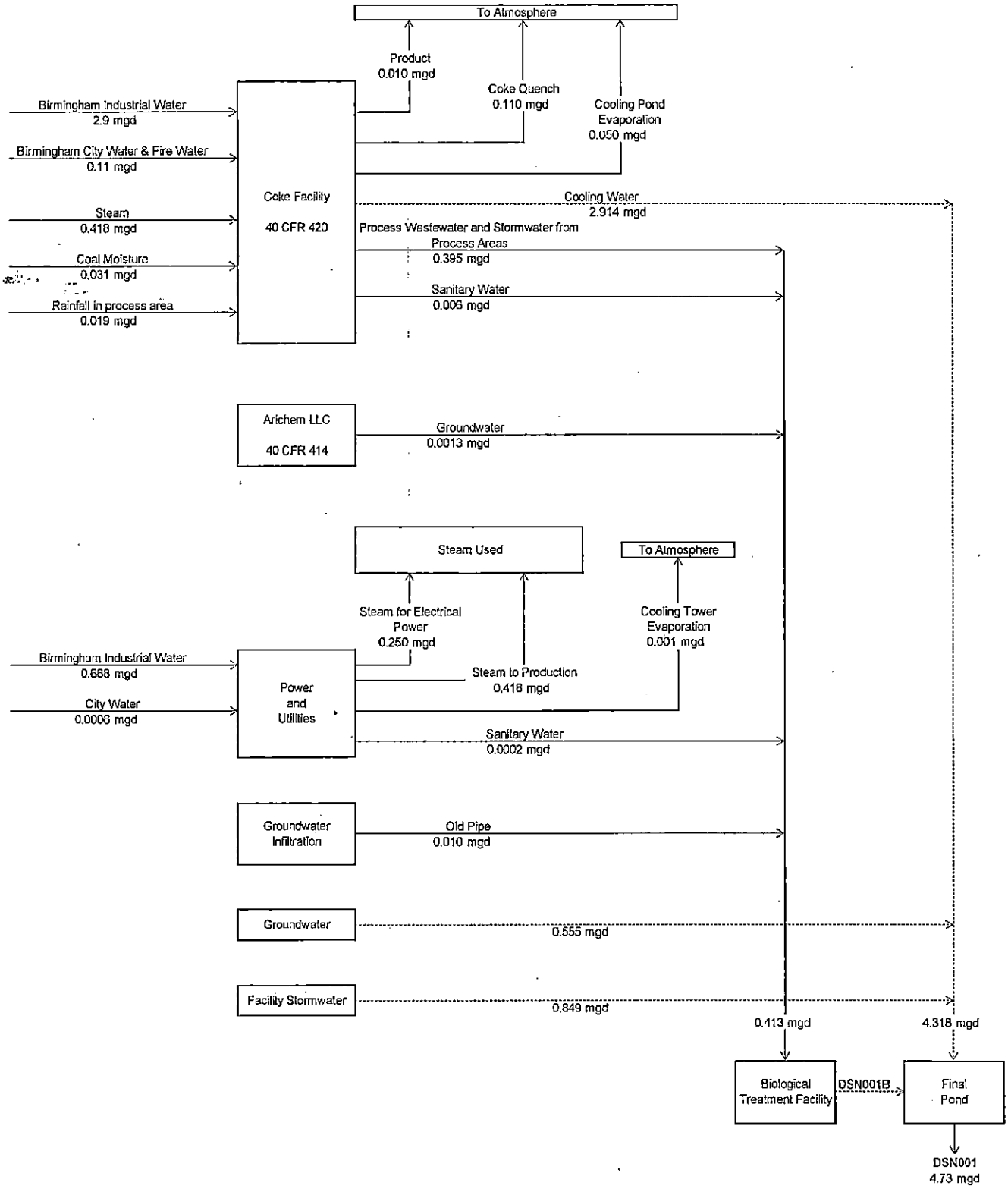
Provide a description of the location of all sites involved in the storage of solids or liquids that could be accidentally discharged to a water of the state, either directly or indirectly via such avenues as storm water drainage, municipal wastewater systems, etc., which are located at the facility 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
All liquids and solids stored on at the facility are either contained or would flow to an NPDES permitted treatment facility or pond that is monitored before being discharged to Five Mile Creek.	

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	Disposal Method
Wastewater Treatment Plant Biosolids	30,000 lbs/day	Biosolids are consumed on site property then recycling with Coal usage.

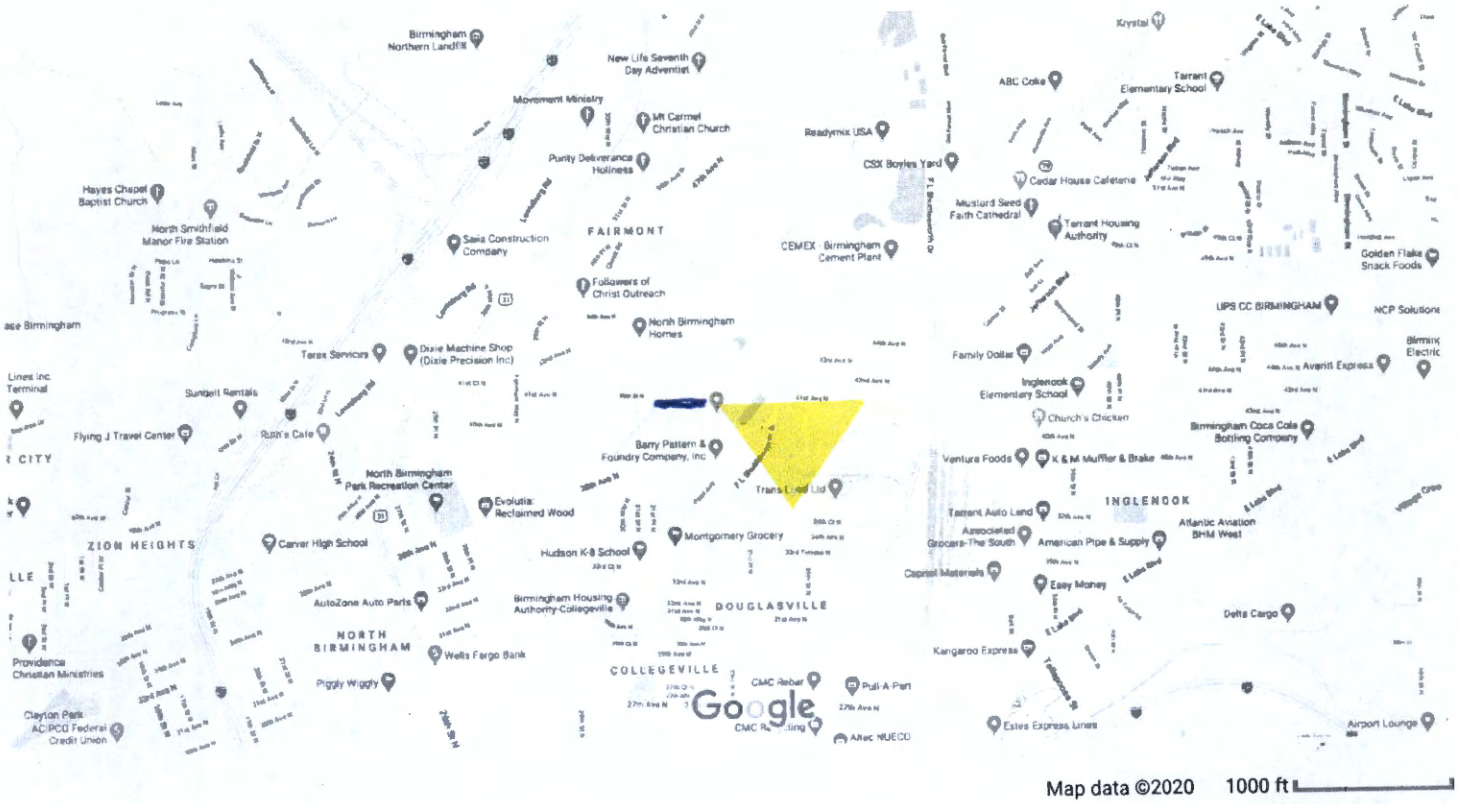
ADEM Form 187 Figure 2 - Supplement to Section C, Part 2
EPA Form 2C, Figure 1 - Supplement to Part II.A.
Walter Coke, Inc. - NPDES Permit No. AL0003247



ADEM Form 187

Facility Map Locator

Bluestone Coke, LLC
3500 35th Avenue N
Birmingham, AL 35207



EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD 000828848	AL 0003247	Bluestone Coke, LLC	

Form 1 NPDES

EPA

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

GENERAL INFORMATION

SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))

Activities Requiring an NPDES Permit

1.1 Applicants *Not Required* to Submit Form 1

1.1.1	Is the facility a new or existing **publicly owned treatment works**? If yes, STOP. Do NOT complete Form 1. Complete Form 2A. ☑ No	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. ☑ No

1.2 Applicants *Required* to Submit Form 1

1.2.1	Is the facility a **concentrated animal feeding operation** or a **concentrated aquatic animal production facility**? ☐ Yes → Complete Form 1 ***and*** Form 2B. ☑ No	1.2.2	Is the facility an **existing** manufacturing, commercial, mining, or silvicultural **facility** that **is currently discharging process wastewater**? ☑ Yes → Complete Form 1 ***and*** Form 2C. ☐ No
1.2.3	Is the facility a **new** manufacturing, commercial, mining, or silvicultural **facility** that has **not yet commenced to discharge**? ☐ Yes → Complete Form 1 ***and*** Form 2D. ☑ No	1.2.4	Is the facility a **new or existing** manufacturing, commercial, mining, or silvicultural **facility** that **discharges only nonprocess wastewater**? ☐ Yes → Complete Form 1 ***and*** Form 2E. ☑ No
1.2.5	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**? ☑ Yes → Complete Form 1 ***and*** Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). ☐ No		

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

Name, Mailing Address, and Location

2.1 Facility Name

Bluestone Coke, LLC

2.2 EPA Identification Number

ALD 000828848

2.3 Facility Contact

Name (first and last)	Title	Phone number
Charles Jones	Representative of the Company	(205) 808-7972

Email address
cjones@bluestonecoke.com

2.4 Facility Mailing Address

Street or P.O. box
3500 35th Avenue N

City or town	State	ZIP code
Birmingham	Alabama	35207

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD 000828848	AL 0003247	Bluestone Coke, LLC	

Name, Mailing Address, and Location Continued

2.5 **Facility Location**

Street, route number, or other specific identifier
3500 35th Avenue N

County name	County code (if known)	
Jefferson		
City or town	**State**	**ZIP code**
Birmingham	Alabama	35207

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

SIC and NAICS Codes

3.1	SIC Code(s)	Description (optional)
	3312	Coke

3.2	NAICS Code(s)	Description (optional)

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

Operator Information

4.1 **Name of Operator**

Bluestone Coke, LLC

4.2 Is the name you listed in Item 4.1 also the owner?

☑ Yes ☐ No

4.3 **Operator Status**

☐ Public—federal ☐ Public—state ☐ Other public (specify)_____

☑ Private ☐ Other (specify) _____

4.4 **Phone Number of Operator**

(205) 808-7712

Operator Information Continued

4.5 **Operator Address**

Street or P.O. Box
3500 35th Avenue N

City or town	State	ZIP code
Birmingham	Alabama	35207

Email address of operator
cjones@bluestonecoke.com

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

Indian Land

5.1 Is the facility located on Indian Land?

☐ Yes ☑ No

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD 000828848	AL 0003247	Bluestone Coke, LLC	

SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Existing Environmental Permits

6.1 **Existing Environmental Permits** (check all that apply and print or type the corresponding permit number for each)

☑ NPDES (discharges to surface water) AL 0003247	☑ RCRA (hazardous wastes) ALD 000828848	☑ UIC (underground injection of fluids) ALS 19937718
☐ PSD (air emissions)	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☑ Other (specify) Title V 4-07-0355-01

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.)

☑ Yes ☐ No ☐ 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.

Bluestone Coke, LLC is a multi-production facility engaged in the manufacturing of coke for use in Blast Furnace and Foundries. The manufacturing of coke results in the production of several by-products. The facility also includes a coke oven gas fired powerhouse.

SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

Cooling Water Intake Structures

9.1 Does your facility use cooling water?

☑ Yes ☐ 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.)

Birmingham Water Works Board

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.)

☐ Fundamentally different factors (CWA Section 301(n))	☐ Water quality related effluent limitations (CWA Section 302(b)(2))
☐ Non-conventional pollutants (CWA Section 301(c) and (g))	☐ Thermal discharges (CWA Section 316(a))
☑ Not applicable	

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD 000828848	AL 0003247	Bluestone Coke, LLC	

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

Checklist and Certification Statement

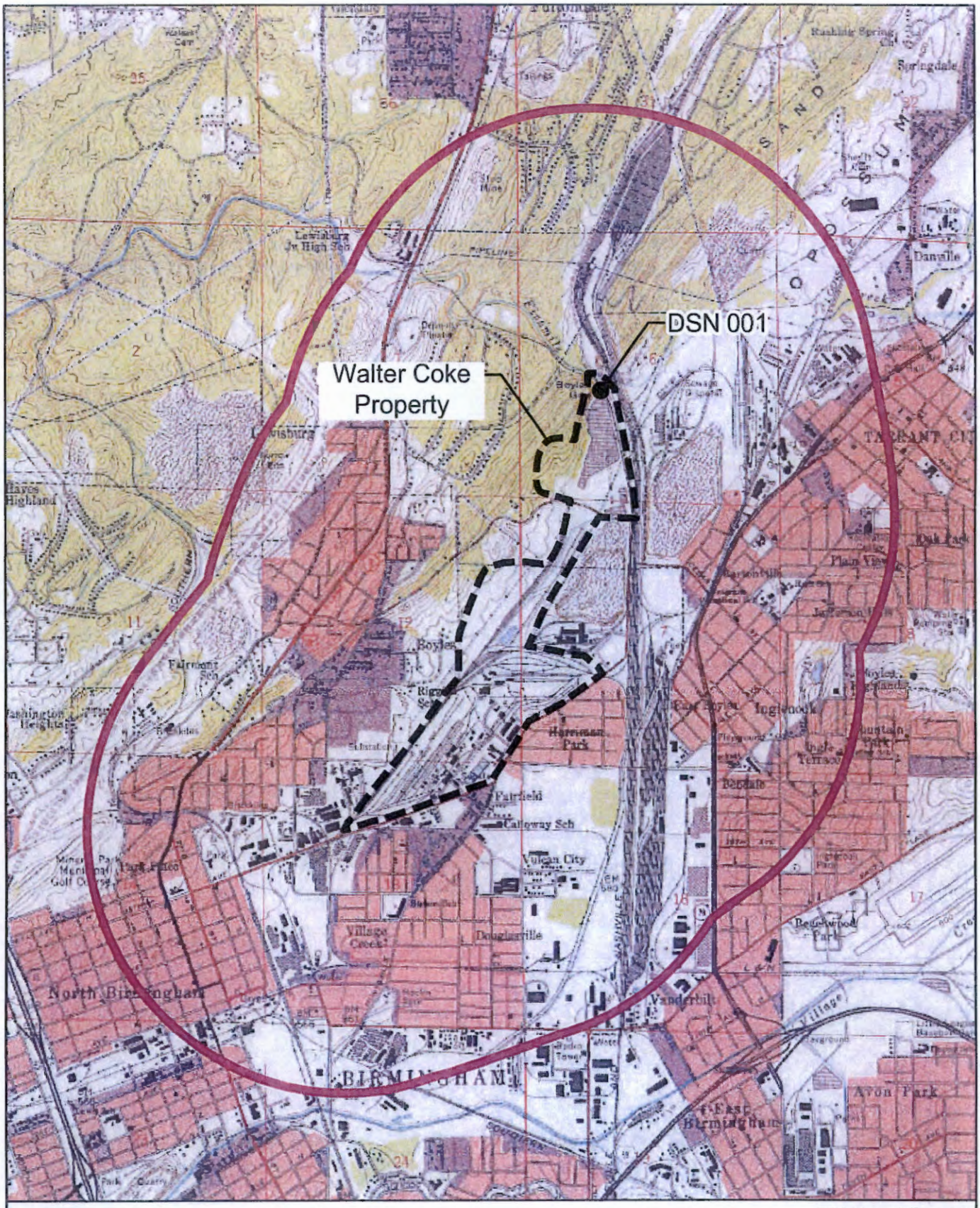
11.1 In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2
☑ Section 1: Activities Requiring an NPDES Permit	☑ w/ attachments
☑ Section 2: Name, Mailing Address, and Location	☐ w/ attachments
☑ Section 3: SIC Codes	☐ w/ attachments
☑ Section 4: Operator Information	☐ w/ attachments
☐ Section 5: Indian Land	☐ w/ attachments
☑ Section 6: Existing Environmental Permits	☐ w/ attachments
☑ Section 7: Map	☑ w/ topographic map ☐ w/ additional attachments
☑ Section 8: Nature of Business	☐ w/ attachments
☑ Section 9: Cooling Water Intake Structures	☐ w/ attachments
☐ Section 10: Variance Requests	☐ w/ attachments
☑ Section 11: Checklist and Certification Statement	☐ w/ attachments

11.2 **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
Tiger Lambert	Representative of the Company
Signature	Date signed
[signature]	7/10/2020



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EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD 000828848	AL 0003247	Bluestone Coke, LLC	

Form 2C NPDES

EPA

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

EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS

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

Outfall Location

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

Outfall Number	Receiving Water Name	Latitude	Longitude
001B	Internal Monitoring Point	33° 34′ 45″ N	86° 47′ 30″ W
001	Five Mile Creek	33° 35′ 5″ N	86° 47′ 26″ 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.)

☑ Yes ☐ No

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

Average Flows and Treatment

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

****Outfall Number**** 001

Operations Contributing to Flow

Operation	Average Flow
001B (Coke Plant Process Waste Water)	0.413 mgd
Coke Plant Non-contact cooling water	2.914 mgd
Stormwater Runoff	0.849 mgd
Groundwater	0.555 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
Equalization	xx	
Sedimentation (settling)	1-U	

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EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD 000828848	AL 0003247	Bluestone Coke, LLC	

Average Flows and Treatment Continued

3.1 cont.

****Outfall Number**** 001B

Operations Contributing to Flow

Operation	Average Flow
Coke Plant Process wastewater & Process Area Storm water	0.395 mgd
Sanitary Wastewater (Coke facility & Power and Utilities)	0.0062 mgd
Groundwater Infilitration	0.01 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
Equalization/Neuralization	2-K	
Activated Sludge	3-A	
Sedimentation (settling)	1-U	
Chemical Oxidation	2-B	

****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

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

Intermittent Flows

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

☐ Yes ☑ No ➔ SKIP to Section 5.

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

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

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

Applicable ELGs

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

☑ Yes ☐ No ➔ SKIP to Section 6.

5.2 Provide the following information on applicable ELGs.

ELG Category	ELG Subcategory	Regulatory Citation
Iron and Steel Manufacturing	Subpart A Coke Making Subcatergory	40 CFR 420

Production-Based Limitations

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

☑ Yes ☐ No ➔ SKIP to Section 6.

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

Outfall Number	Operation, Product, or Material	Quantity per Day	Unit of Measure
	See ADEM Form 187 Attached		

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

Upgrades and Improvements

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

☐ Yes ☑ No → SKIP to Item 6.3.

6.2 Briefly identify each applicable project in the table below.

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

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

☐ Yes ☐ No ☑ Not applicable

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

Effluent and Intake Characteristics

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

Table A. Conventional and Non-Conventional Pollutants

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

☐ Yes ☑ 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?

☑ Yes ☐ No; a waiver has been requested from my NPDES permitting authority for all pollutants at all outfalls.

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

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

☑ Yes ☐ No → SKIP to Item 7.8.

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

☑ Yes ☐ 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.)			
Organic Chemicals Manufacturing	☑ Volatile	☑ Acid	☑ Base/Neutral	☑ Pesticide
	☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide
	☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide

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? ☑ Yes ☐ 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? ☑ Yes ☐ 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? ☑ Yes ☐ No
7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes ➔ Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☑ No
7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☑ Yes ☐ No
Table C. Certain Conventional and Non-Conventional Pollutants	
7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? ☑ Yes ☐ 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"? ☑ Yes ☐ No
Table D. Certain Hazardous Substances and Asbestos	
7.14	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☑ Yes ☐ 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? ☑ Yes ☐ No
Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)	
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? ☐ Yes ➔ Complete Table E. ☑ No ➔ SKIP to Section 8.
7.17	Have you completed Table E by reporting *qualitative* data for TCDD? ☐ Yes ☐ No

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

Used or Manufactured Toxics

8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☑ No ➔ SKIP to Section 9.		
8.2	List the pollutants below.		
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

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

Biological Toxicity Tests

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

☑ Yes ☐ No → SKIP to Section 10.

9.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
Chronic Definitive	Permit Requirement	☑ Yes ☐ No	06/28/2020
		☐ Yes ☐ No	
		☐ Yes ☐ 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?

☑ Yes ☐ No → SKIP to Section 11.

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

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Enersolv Corporation		
Laboratory address	2220 Beltline Road SW Decatur, AL 35601		
Phone number	(256) 350-0846		
Pollutant(s) analyzed	All		

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

Additional Information

11.1 Has the NPDES permitting authority requested additional information?

☐ Yes ☑ No → SKIP to Section 12.

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

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

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

Checklist and Certification Statement

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

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

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
Tiger Lambert	Representative of the Company
Signature 	Date signed 7/10/23

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

	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
☐	Check here if you have applied to your NPDES permitting authority for a waiver for *all* of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD_5)	☐	Concentration							
			Mass							
2.	Chemical oxygen demand (COD)	☐	Concentration							
			Mass							
3.	Total organic carbon (TOC)	☐	Concentration							
			Mass							
4.	Total suspended solids (TSS)	☐	Concentration							
			Mass							
5.	Ammonia (as N)	☐	Concentration							
			Mass							
6.	Flow	☐	Rate							
7.	Temperature (winter)	☐	°C	°C						
	Temperature (summer)	☐	°C	°C						
8.	pH (minimum)	☐	Standard units	s.u.						
	pH (maximum)	☐	Standard units	s.u.						

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

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ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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

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

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN001B (See Data Attached)

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

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	☐	☐	☑	

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011

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

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

	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
☐	Check here if you have applied to your NPDES permitting authority for a waiver for *all* of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD_5)	☐	Concentration							
			Mass							
2.	Chemical oxygen demand (COD)	☐	Concentration							
			Mass							
3.	Total organic carbon (TOC)	☐	Concentration							
			Mass							
4.	Total suspended solids (TSS)	☐	Concentration							
			Mass							
5.	Ammonia (as N)	☐	Concentration							
			Mass							
6.	Flow	☐	Rate							
7.	Temperature (winter)	☐	°C	°C						
	Temperature (summer)	☐	°C	°C						
8.	pH (minimum)	☐	Standard units	s.u.						
	pH (maximum)	☐	Standard units	s.u.						

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

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

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

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

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ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

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ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

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ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

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ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

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ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

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ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

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ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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

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

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN0011 (See Data Attached)

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

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	☐	☐	☑	

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): ALD000828848

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO.: DSN001

PART A –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.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	<2.0	<162					1	mg/L	lb/day	See EPA Form 2C Attachment 1		
b. Chemical Oxygen Demand (*COD*)	179	14,474					1	mg/L	lb/day			
c. Total Organic Carbon (*TOC*)	9.58	775					1	mg/L	lb/day			
d. Total Suspended Solids (*TSS*)	84.7	6,850	6.74	269	5.12	271	54	mg/L	lb/day			
e. Ammonia (*as N*)	0.16	10.0	0.02	0.62	0.01	0.24	107	mg/L	lb/day			
f. Flow	VALUE 11.4		VALUE 5.10		VALUE 4.63		365	MGD		VALUE		
g. Temperature (*winter*)	VALUE 12.8		VALUE		VALUE		1	°C		VALUE		
h. Temperature (*summer*)	VALUE Ambient		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 7.00	MAXIMUM 8.20	MINIMUM 7.45	MAXIMUM 7.92			366	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	2. MARK "X" b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X								mg/L	lb/day			
b. Chlorine, Total Residual		X								mg/L	lb/day			
c. Color	X		250						1	c.u.	NA			
d. Fecal Coliform	X		340						1	col/100mL	NA			
e. Fluoride (16984-48-8)	X		1.34	108					1	mg/L	lb/day			
f. Nitrate-Nitrite (*as N*)	X		3.69	269			3.23	145	5	mg/L	lb/day			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (*as N*)	X		<1.5	<121					1	mg/L	lb/day			
h. Oil and Grease	X		8.23	288	4.12	144	0.32	11	26	mg/L	lb/day			
i. Phosphorus (as P), Total (7723-14-0)	X		3.67	297			0.73	59	5	mg/L	lb/day			
j. Radioactivity														
(1) Alpha, Total		X								pCi/L	NA			
(2) Beta, Total		X								pCi/L	NA			
(3) Radium, Total		X								pCi/L	NA			
(4) Radium 226, Total		X								pCi/L	NA			
k. Sulfate (*as SO_4*) (14808-79-8)	X		78.5	6,347					1	mg/L	lb/day			
l. Sulfide (*as S*)		X								mg/L	lb/day			
m. Sulfite (*as SO_3*) (14265-45-3)		X								mg/L	lb/day			
n. Surfactants		X								mg/L	lb/day			
o. Aluminum, Total (7429-90-5)		X								mg/L	lb/day			
p. Barium, Total (7440-39-3)		X								mg/L	lb/day			
q. Boron, Total (7440-42-8)		X								mg/L	lb/day			
r. Cobalt, Total (7440-48-4)		X								mg/L	lb/day			
s. Iron, Total (7439-89-6)	X		2.94	238					1	mg/L	lb/day			
t. Magnesium, Total (7439-95-4)	X		5.55	449					1	mg/L	lb/day			
u. Molybdenum, Total (7439-98-7)		X								mg/L	lb/day			
v. Manganese, Total (7439-96-5)	X		0.101	8.17					1	mg/L	lb/day			
w. Tin, Total (7440-31-5)		X								mg/L	lb/day			
x. Titanium, Total (7440-32-6)		X								mg/L	lb/day			

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
ALD000828848	DSN001

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			<0.00100	<0.081					1	mg/L	lb/day			
2M. Arsenic, Total (7440-38-2)	X			0.00598	0.484					1	mg/L	lb/day			
3M. Beryllium, Total (7440-41-7)	X			<0.00100	<0.081					1	mg/L	lb/day			
4M. Cadmium, Total (7440-43-9)	X			<0.00100	<0.081					1	mg/L	lb/day			
5M. Chromium, Total (7440-47-3)	X			0.00354	0.286					1	mg/L	lb/day			
6M. Copper, Total (7440-50-8)	X			0.00999	0.808			0.00472	0.259	5	mg/L	lb/day			
7M. Lead, Total (7439-92-1)	X			0.00590	0.477			0.00118	0.095	5	mg/L	lb/day			
8M. Mercury, Total (7439-97-6)	X			2.50	0.0001			1.81	0.00007	4	ng/L	lb/day			
9M. Nickel, Total (7440-02-0)	X			0.00490	0.396					1	mg/L	lb/day			
10M. Selenium, Total (7782-49-2)	X			0.00765	0.619			0.00685	0.314	5	mg/L	lb/day			
11M. Silver, Total (7440-22-4)	X			<0.00100	<0.081					1	mg/L	lb/day			
12M. Thallium, Total (7440-28-0)	X			<0.00100	<0.081					1	mg/L	lb/day			
13M. Zinc, Total (7440-66-6)	X			0.0357	2.40			0.0240	1.14	5	mg/L	lb/day			
14M. Cyanide, Total (57-12-5)	X			0.119	4.42	0.057	2.19	0.039	1.52	106	mg/L	lb/day			
15M. Phenols, Total	X			<0.0100	<0.809					1	mg/L	lb/day			
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)	X			<5.0	<0.404					1	µg/L	lb/day			
2V. Acrylonitrile (107-13-1)	X			<5.0	<0.404					1	µg/L	lb/day			
3V. Benzene (71-43-2)	X			<3.0	<0.243					1	µg/L	lb/day			
4V. Bis (*Chloromethyl*) Ether (542-88-1)	NA			NA	NA					NA					
5V. Bromoform (75-25-2)	X			<3.0	<0.243					1	µg/L	lb/day			
6V. Carbon Tetrachloride (56-23-5)	X			<3.0	<0.243					1	µg/L	lb/day			
7V. Chlorobenzene (108-90-7)	X			<3.0	<0.243					1	µg/L	lb/day			
8V. Chlorodibromomethane (124-48-1)	X			<3.0	<0.243					1	µg/L	lb/day			
9V. Chloroethane (75-00-3)	X			<5.0	<0.404					1	µg/L	lb/day			
10V. 2-Chloroethylvinyl Ether (110-75-8)	X			<3.0	<0.243					1	µg/L	lb/day			
11V. Chloroform (67-66-3)	X			<3.0	<0.243					1	µg/L	lb/day			
12V. Dichlorobromomethane (75-27-4)	X			<3.0	<0.243					1	µg/L	lb/day			
13V. Dichlorodifluoromethane (75-71-8)	X			<3.0	<0.243					1	µg/L	lb/day			
14V. 1,1-Dichloroethane (75-34-3)	X			<3.0	<0.243					1	µg/L	lb/day			
15V. 1,2-Dichloroethane (107-06-2)	X			<3.0	<0.243					1	µg/L	lb/day			
16V. 1,1-Dichloroethylene (75-35-4)	X			<3.0	<0.243					1	µg/L	lb/day			
17V. 1,2-Dichloropropane (78-87-5)	X			<3.0	<0.243					1	µg/L	lb/day			
18V. 1,3-Dichloropropylene (542-75-6)	X			<3.0	<0.243					1	µg/L	lb/day			
19V. Ethylbenzene (100-41-4)	X			<3.0	<0.243					1	µg/L	lb/day			
20V. Methyl Bromide (74-83-9)	X			<5.0	<0.404					1	µg/L	lb/day			
21V. Methyl Chloride (74-87-3)	X			<5.0	<0.404					1	µg/L	lb/day			

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)	X			<5.0	<0.404					1	µg/L	lb/day			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			<3.0	<0.243					1	µg/L	lb/day			
24V. Tetrachloro-ethylene (127-18-4)	X			<3.0	<0.243					1	µg/L	lb/day			
25V. Toluene (108-88-3)	X			<3.0	<0.243					1	µg/L	lb/day			
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X			<3.0	<0.243					1	µg/L	lb/day			
27V. 1,1,1-Trichloro-ethane (71-55-6)	X			<3.0	<0.243					1	µg/L	lb/day			
28V. 1,1,2-Trichloro-ethane (79-00-5)	X			<3.0	<0.243					1	µg/L	lb/day			
29V Trichloro-ethylene (79-01-6)	X			<3.0	<0.243					1	µg/L	lb/day			
30V. Trichloro-fluoromethane (75-69-4)	X			<5.0	<0.404					1	µg/L	lb/day			
31V. Vinyl Chloride (75-01-4)	X			<5.0	<0.404					1	µg/L	lb/day			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X			<0.75	<0.061					1	µg/L	lb/day			
2A. 2,4-Dichloro-phenol (120-83-2)	X			<0.75	<0.061					1	µg/L	lb/day			
3A. 2,4-Dimethyl-phenol (105-67-9)	X			<2.5	<0.202					1	µg/L	lb/day			
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X			<5.0	<0.404					1	µg/L	lb/day			
5A. 2,4-Dinitro-phenol (51-28-5)	X			<5.0	<0.404					1	µg/L	lb/day			
6A. 2-Nitrophenol (88-75-5)	X			<1.0	<0.081					1	µg/L	lb/day			
7A. 4-Nitrophenol (100-02-7)	X			<5.0	<0.404					1	µg/L	lb/day			
8A. P-Chloro-M-Cresol (59-50-7)	X			<1.0	<0.081					1	µg/L	lb/day			
9A. Pentachloro-phenol (87-86-5)	X			<5.0	<0.404					1	µg/L	lb/day			
10A. Phenol (108-95-2)	X			<0.5	<0.040					1	µg/L	lb/day			
11A. 2,4,6-Trichloro-phenol (88-05-2)	X			<1.0	<0.081					1	µg/L	lb/day			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			<1.0	<0.081					1	µg/L	lb/day			
2B. Acenaphtylene (208-96-8)	X			<1.2	<0.097					1	µg/L	lb/day			
3B. Anthracene (120-12-7)	X			<0.75	<0.061					1	µg/L	lb/day			
4B. Benzidine (92-87-5)	X			<7.5	<0.607					1	µg/L	lb/day			
5B. Benzo (*a*) Anthracene (56-55-3)	X			<0.75	<0.061					1	µg/L	lb/day			
6B. Benzo (*a*) Pyrene (50-32-8)	X			<0.75	<0.061	<0.75	<0.061	<0.75	<0.035	13	µg/L	lb/day			
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			<1.0	<0.081					1	µg/L	lb/day			
8B. Benzo (*ghi*) Perylene (191-24-2)	X			<1.0	<0.081					1	µg/L	lb/day			
9B. Benzo (*k*) Fluoranthene (207-08-9)	X			<0.75	<0.061					1	µg/L	lb/day			
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)	X			<0.75	<0.061					1	µg/L	lb/day			
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)	X			<1.0	<0.081					1	µg/L	lb/day			
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)	X			<0.75	<0.061					1	µg/L	lb/day			
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)	X			<2.5	<0.202					1	µg/L	lb/day			
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X			<1.0	<0.081					1	µg/L	lb/day			
15B. Butyl Benzyl Phthalate (85-68-7)	X			<2.5	<0.202					1	µg/L	lb/day			
16B. 2-Chloro-naphthalene (91-58-7)	X			<1.0	<0.081					1	µg/L	lb/day			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			<0.75	<0.061					1	µg/L	lb/day			
18B. Chrysene (218-01-9)	X			<0.75	<0.061					1	µg/L	lb/day			
19B. Dibenzo (*a,h*) Anthracene (53-70-3)	X			<1.2	<0.097					1	µg/L	lb/day			
20B. 1,2-Dichloro-benzene (95-50-1)	X			<3.0	<0.243					1	µg/L	lb/day			
21B. 1,3-Di-chloro-benzene (541-73-1)	X			<3.0	<0.243					1	µg/L	lb/day			

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichlorobenzene (106-46-7)	X			<3.0	<0.243					1	µg/L	lb/day			
23B. 3,3-Dichlorobenzidine (91-94-1)	X			<1.5	<0.121					1	µg/L	lb/day			
24B. Diethyl Phthalate (84-66-2)	X			<1.2	<0.097					1	µg/L	lb/day			
25B. Dimethyl Phthalate (131-11-3)	X			<1.0	<0.081					1	µg/L	lb/day			
26B. Di-N-Butyl Phthalate (84-74-2)	X			<1.0	<0.081					1	µg/L	lb/day			
27B. 2,4-Dinitrotoluene (121-14-2)	X			<1.0	<0.081					1	µg/L	lb/day			
28B. 2,6-Dinitrotoluene (606-20-2)	X			<0.75	<0.061					1	µg/L	lb/day			
29B. Di-N-Octyl Phthalate (117-84-0)	X			<1.5	<0.121					1	µg/L	lb/day			
30B. 1,2-Diphenylhydrazine (*as Azobenzene*) (122-66-7)	X			<1.0	<0.081					1	µg/L	lb/day			
31B. Fluoranthene (206-44-0)	X			0.88	0.071					1	µg/L	lb/day			
32B. Fluorene (86-73-7)	X			<0.75	<0.061					1	µg/L	lb/day			
33B. Hexachlorobenzene (118-74-1)	X			<1.2	<0.097					1	µg/L	lb/day			
34B. Hexachlorobutadiene (87-68-3)	X			<1.2	<0.097					1	µg/L	lb/day			
35B. Hexachlorocyclopentadiene (77-47-4)	X			<1.2	<0.097					1	µg/L	lb/day			
36B Hexachloroethane (67-72-1)	X			<1.2	<0.097					1	µg/L	lb/day			
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)	X			<1.2	<0.097					1	µg/L	lb/day			
38B. Isophorone (78-59-1)	X			<1.0	<0.081					1	µg/L	lb/day			
39B. Naphthalene (91-20-3)	X			0.61	0.049					1	µg/L	lb/day			
40B. Nitrobenzene (98-95-3)	X			<1.5	<0.121					1	µg/L	lb/day			
41B. N-Nitrosodimethylamine (62-75-9)	X			<2.0	<0.162					1	µg/L	lb/day			
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			<0.75	<0.061					1	µg/L	lb/day			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitro-sodiphenylamine (86-30-6)	X			<0.75	<0.061					1	µg/L	lb/day			
44B. Phenanthrene (85-01-8)	X			0.81	0.065					1	µg/L	lb/day			
45B. Pyrene (129-00-0)	X			<1.5	<0.121					1	µg/L	lb/day			
46B. 1,2,4-Tri-chlorobenzene (120-82-1)	X			<0.75	<0.061					1	µg/L	lb/day			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Enosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

CONTINUE ON PAGE V-9

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
ALD000828848	DSN001

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): ALD000828848

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO.: DSN001B

PART A –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.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	2.20	5.14					1	mg/L	lb/day			
b. Chemical Oxygen Demand (*COD*)	25.8	60.3					1	mg/L	lb/day			
c. Total Organic Carbon (*TOC*)	14.5	33.9					1	mg/L	lb/day			
d. Total Suspended Solids (*TSS*)	17.0	34.9	5.00	10.3	1.32	3.09	54	mg/L	lb/day			
e. Ammonia (*as N*)	0.56	1.15	0.21	0.42	0.04	0.07	54	mg/L	lb/day			
f. Flow	VALUE 0.70		VALUE 0.37		VALUE 0.33		365	MGD		VALUE		
g. Temperature (*winter*)	VALUE 8.5		VALUE		VALUE		1	°C		VALUE		
h. Temperature (*summer*)	VALUE Ambient		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 6.60	MAXIMUM 8.40	MINIMUM 7.03	MAXIMUM 7.75			366	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	2. MARK "X" b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X								mg/L	lb/day			
b. Chlorine, Total Residual		X								mg/L	lb/day			
c. Color	X		180						1	c.u.	NA			
d. Fecal Coliform	X		<10						1	col/100mL	NA			
e. Fluoride (16984-48-8)		X								mg/L	lb/day			
f. Nitrate-Nitrite (*as N*)	X		<0.65	<1.5					1	mg/L	lb/day			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)		X								mg/L	lb/day			
h. Oil and Grease	X		9.12	27.2	2.28	6.81	0.30	0.798	S4	mg/L	lb/day			
i. Phosphorus (as P), Total (7723-14-0)	X		1.61	3.76					1	mg/L	lb/day			
j. Radioactivity														
(1) Alpha, Total		X								pCi/L	NA			
(2) Beta, Total		X								pCi/L	NA			
(3) Radium, Total		X								pCi/L	NA			
(4) Radium 226, Total		X								pCi/L	NA			
k. Sulfate (as SO_4) (14808-79-8)	X		423	988					1	mg/L	lb/day			
l. Sulfide (as S)		X								mg/L	lb/day			
m. Sulfite (as SO_3) (14265-45-3)		X								mg/L	lb/day			
n. Surfactants		X								mg/L	lb/day			
o. Aluminum, Total (7429-90-5)		X								mg/L	lb/day			
p. Barium, Total (7440-39-3)		X								mg/L	lb/day			
q. Boron, Total (7440-42-8)		X								mg/L	lb/day			
r. Cobalt, Total (7440-48-4)		X								mg/L	lb/day			
s. Iron, Total (7439-89-6)	X		0.196	0.458					1	mg/L	lb/day			
t. Magnesium, Total (7439-95-4)	X		Magnesium is a component of the raw materials. Previous analysis have indicated a concentration of 4.23 mg/L											
u. Molybdenum, Total (7439-98-7)		X								mg/L	lb/day			
v. Manganese, Total (7439-96-5)	X		0.00852	0.020					1	mg/L	lb/day			
w. Tin, Total (7440-31-5)		X								mg/L	lb/day			
x. Titanium, Total (7440-32-6)		X								mg/L	lb/day			

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
ALD000828848	DSN001B

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			0.00101	0.002					1	mg/L	lb/day			
2M. Arsenic, Total (7440-38-2)	X			0.0196	0.046					1	mg/L	lb/day			
3M. Beryllium, Total (7440-41-7)	X			<0.00100	<0.002					1	mg/L	lb/day			
4M. Cadmium, Total (7440-43-9)	X			<0.00100	<0.002					1	mg/L	lb/day			
5M. Chromium, Total (7440-47-3)	X			0.00372	0.009					1	mg/L	lb/day			
6M. Copper, Total (7440-50-8)	X			0.0145	0.034					1	mg/L	lb/day			
7M. Lead, Total (7439-92-1)	X			<0.00100	<0.002					1	mg/L	lb/day			
8M. Mercury, Total (7439-97-6)	X			<0.000200	<0.0005					1	ng/L	lb/day			
9M. Nickel, Total (7440-02-0)	X			0.00250	0.006					1	mg/L	lb/day			
10M. Selenium, Total (7782-49-2)	X			0.0359	0.084					1	mg/L	lb/day			
11M. Silver, Total (7440-22-4)	X			<0.00100	<0.002					1	mg/L	lb/day			
12M. Thallium, Total (7440-28-0)	X			<0.00100	<0.002					1	mg/L	lb/day			
13M. Zinc, Total (7440-66-6)	X			0.00507	0.012					1	mg/L	lb/day			
14M. Cyanide, Total (57-12-5)	X			1.37	4.90	1.11	3.03	0.62	1.83	54	mg/L	lb/day			
15M. Phenols, Total	X			<0.010	<0.059	<0.010	<0.034	<0.010	<0.029	54	mg/L	lb/day			
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			<5.0	<0.012					1	µg/L	lb/day			
2V. Acrylonitrile (107-13-1)	X			<5.0	<0.012					1	µg/L	lb/day			
3V. Benzene (71-43-2)	X			<3.0	<0.007					1	µg/L	lb/day			
4V. Bis (*Chloromethyl*) Ether (542-88-1)	NA			NA	NA					NA					
5V. Bromoform (75-25-2)	X			<3.0	<0.007					1	µg/L	lb/day			
6V. Carbon Tetrachloride (56-23-5)	X			<3.0	<0.007					1	µg/L	lb/day			
7V. Chlorobenzene (108-90-7)	X			<3.0	<0.007	<3.0	<0.009	<3.0	<0.008	9	µg/L	lb/day			
8V. Chlorodibromomethane (124-48-1)	X			<3.0	<0.007					1	µg/L	lb/day			
9V. Chloroethane (75-00-3)	X			<5.0	<0.012					1	µg/L	lb/day			
10V. 2-Chloroethylvinyl Ether (110-75-8)	X			<3.0	<0.007					1	µg/L	lb/day			
11V. Chloroform (67-66-3)	X			<3.0	<0.007					1	µg/L	lb/day			
12V. Dichlorobromomethane (75-27-4)	X			<3.0	<0.007					1	µg/L	lb/day			
13V. Dichlorodifluoromethane (75-71-8)	X			<3.0	<0.007					1	µg/L	lb/day			
14V. 1,1-Dichloroethane (75-34-3)	X			<3.0	<0.007					1	µg/L	lb/day			
15V. 1,2-Dichloroethane (107-06-2)	X			<3.0	<0.007					1	µg/L	lb/day			
16V. 1,1-Dichloroethylene (75-35-4)	X			<3.0	<0.007					1	µg/L	lb/day			
17V. 1,2-Dichloropropane (78-87-5)	X			<3.0	<0.007					1	µg/L	lb/day			
18V. 1,3-Dichloropropylene (542-75-6)	X			<3.0	<0.007					1	µg/L	lb/day			
19V. Ethylbenzene (100-41-4)	X			<3.0	<0.007					1	µg/L	lb/day			
20V. Methyl Bromide (74-83-9)	X			<5.0	<0.012					1	µg/L	lb/day			
21V. Methyl Chloride (74-87-3)	X			<5.0	<0.012					1	µg/L	lb/day			

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1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)	X			<5.0	<0.012					1	µg/L	lb/day			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			<3.0	<0.007					1	µg/L	lb/day			
24V. Tetrachloroethylene (127-18-4)	X			<3.0	<0.007					1	µg/L	lb/day			
25V. Toluene (108-88-3)	X			<3.0	<0.007					1	µg/L	lb/day			
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X			<3.0	<0.007					1	µg/L	lb/day			
27V. 1,1,1-Trichloroethane (71-55-6)	X			<3.0	<0.007					1	µg/L	lb/day			
28V. 1,1,2-Trichloroethane (79-00-5)	X			<3.0	<0.007					1	µg/L	lb/day			
29V Trichloroethylene (79-01-6)	X			<3.0	<0.007					1	µg/L	lb/day			
30V. Trichlorofluoromethane (75-69-4)	X			<5.0	<0.012					1	µg/L	lb/day			
31V. Vinyl Chloride (75-01-4)	X			<5.0	<0.012					1	µg/L	lb/day			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X			<0.75	<0.002					1	µg/L	lb/day			
2A. 2,4-Dichlorophenol (120-83-2)	X			<0.75	<0.002					1	µg/L	lb/day			
3A. 2,4-Dimethylphenol (105-67-9)	X			<2.5	<0.006					1	µg/L	lb/day			
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X			<5.0	<0.012					1	µg/L	lb/day			
5A. 2,4-Dinitrophenol (51-28-5)	X			<5.0	<0.012					1	µg/L	lb/day			
6A. 2-Nitrophenol (88-75-5)	X			<1.0	<0.002					1	µg/L	lb/day			
7A. 4-Nitrophenol (100-02-7)	X			<5.0	<0.012					1	µg/L	lb/day			
8A. P-Chloro-M-Cresol (59-50-7)	X			<1.0	<0.002					1	µg/L	lb/day			
9A. Pentachlorophenol (87-86-5)	X			<5.0	<0.012					1	µg/L	lb/day			
10A. Phenol (108-95-2)	X			<0.5	<0.001					1	µg/L	lb/day			
11A. 2,4,6-Trichlorophenol (88-05-2)	X			<1.0	<0.002					1	µg/L	lb/day			

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1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			<1.0	<0.002					1	µg/L	lb/day			
2B. Acenaphtylene (208-96-8)	X			<1.2	<0.003					1	µg/L	lb/day			
3B. Anthracene (120-12-7)	X			<0.75	<0.002					1	µg/L	lb/day			
4B. Benzidine (92-87-5)	X			<7.5	<0.018					1	µg/L	lb/day			
5B. Benzo (*a*) Anthracene (56-55-3)	X			<0.75	<0.002					1	µg/L	lb/day			
6B. Benzo (*a*) Pyrene (50-32-8)	X			1.46	0.004	0.73	0.002	0.15	0.0004	10	µg/L	lb/day			
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			<1.0	<0.002					1	µg/L	lb/day			
8B. Benzo (*ghi*) Perylene (191-24-2)	X			<1.0	<0.002					1	µg/L	lb/day			
9B. Benzo (*k*) Fluoranthene (207-08-9)	X			<0.75	<0.002					1	µg/L	lb/day			
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)	X			<0.75	<0.002					1	µg/L	lb/day			
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)	X			<1.0	<0.002					1	µg/L	lb/day			
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)	X			<0.75	<0.002					1	µg/L	lb/day			
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)	X			<2.5	<0.006					1	µg/L	lb/day			
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X			<1.0	<0.002					1	µg/L	lb/day			
15B. Butyl Benzyl Phthalate (85-68-7)	X			<2.5	<0.006					1	µg/L	lb/day			
16B. 2-Chloro-naphthalene (91-58-7)	X			<1.0	<0.002					1	µg/L	lb/day			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			<0.75	<0.002					1	µg/L	lb/day			
18B. Chrysene (218-01-9)	X			<0.75	<0.002					1	µg/L	lb/day			
19B. Dibenzo (*a,h*) Anthracene (53-70-3)	X			<1.2	<0.003					1	µg/L	lb/day			
20B. 1,2-Dichloro-benzene (95-50-1)	X			<3.0	<0.010	<3.0	<0.009	<3.0	<0.008	9	µg/L	lb/day			
21B. 1,3-Di-chloro-benzene (541-73-1)	X			<3.0	<0.010	<3.0	<0.009	<3.0	<0.008	9	µg/L	lb/day			

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichlorobenzene (106-46-7)	X			<3.0	<0.010	<3.0	<0.009	<3.0	<0.008	9	µg/L	lb/day			
23B. 3,3-Dichlorobenzidine (91-94-1)	X			<1.5	<0.004					1	µg/L	lb/day			
24B. Diethyl Phthalate (84-66-2)	X			<1.2	<0.003					1	µg/L	lb/day			
25B. Dimethyl Phthalate (131 -11-3)	X			<1.0	<0.002					1	µg/L	lb/day			
26B. Di-N-Butyl Phthalate (84-74-2)	X			<1.0	<0.002					1	µg/L	lb/day			
27B. 2,4-Dinitrotoluene (121-14-2)	X			<1.0	<0.002					1	µg/L	lb/day			
28B. 2,6-Dinitrotoluene (606-20-2)	X			<0.75	<0.002					1	µg/L	lb/day			
29B. Di-N-Octyl Phthalate (117-84-0)	X			<1.5	<0.004					1	µg/L	lb/day			
30B. 1,2-Diphenylhydrazine (*as Azobenzene*) (122-66-7)	X			<1.0	<0.002					1	µg/L	lb/day			
31B. Fluoranthene (206-44-0)	X			<0.75	<0.002					1	µg/L	lb/day			
32B. Fluorene (86-73-7)	X			<0.75	<0.002					1	µg/L	lb/day			
33B. Hexachlorobenzene (118-74-1)	X			<1.2	<0.003					1	µg/L	lb/day			
34B. Hexachlorobutadiene (87-68-3)	X			<1.2	<0.003					1	µg/L	lb/day			
35B. Hexachlorocyclopentadiene (77-47-4)	X			<1.2	<0.003					1	µg/L	lb/day			
36B Hexachloroethane (67-72-1)	X			<1.2	<0.003					1	µg/L	lb/day			
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)	X			<1.2	<0.003					1	µg/L	lb/day			
38B. Isophorone (78-59-1)	X			<1.0	<0.002					1	µg/L	lb/day			
39B. Naphthalene (91-20-3)	X			<0.53	<0.002	<0.52	<0.002	<0.50	<0.001	10	µg/L	lb/day			
40B. Nitrobenzene (98-95-3)	X			<1.5	<0.004					1	µg/L	lb/day			
41B. N-Nitrosodimethylamine (62-75-9)	X			<2.0	<0.005					1	µg/L	lb/day			
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			<0.75	<0.002					1	µg/L	lb/day			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

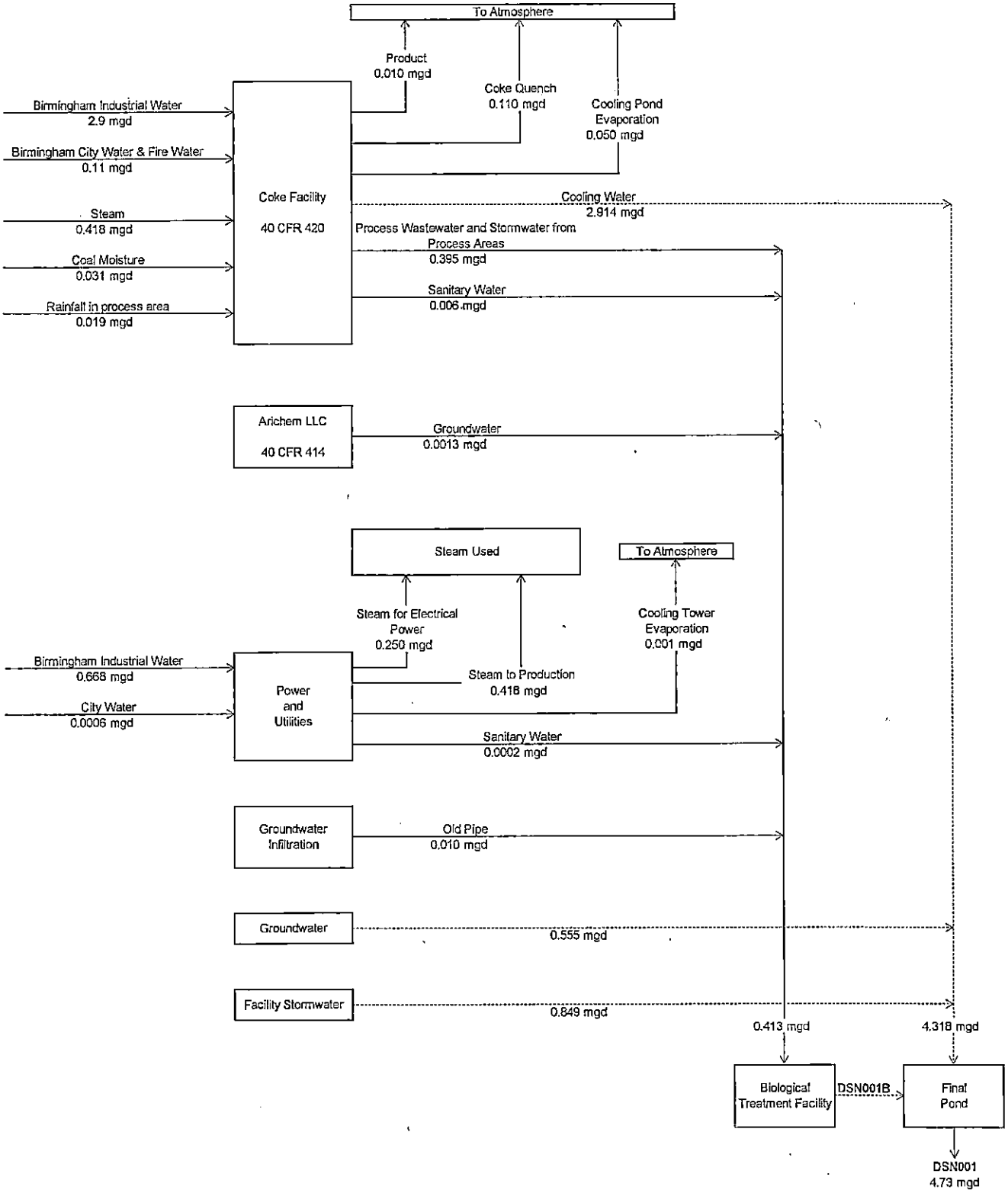
1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitrosodiphenylamine (86-30-6)	X			<0.75	<0.002					1	µg/L	lb/day			
44B. Phenanthrene (85-01-8)	X			<0.5	<0.001					1	µg/L	lb/day			
45B. Pyrene (129-00-0)	X			<1.5	<0.004					1	µg/L	lb/day			
46B. 1,2,4-Trichlorobenzene (120-82-1)	X			<3.0	<0.010	<3.0	<0.009	<2.75	<0.007	9	µg/L	lb/day			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X								µg/L	lb/day			
2P. α-BHC (319-84-6)			X								µg/L	lb/day			
3P. β-BHC (319-85-7)			X								µg/L	lb/day			
4P. γ-BHC (58-89-9)			X								µg/L	lb/day			
5P. δ-BHC (319-86-8)			X								µg/L	lb/day			
6P. Chlordane (57-74-9)			X								µg/L	lb/day			
7P. 4,4'-DDT (50-29-3)			X								µg/L	lb/day			
8P. 4,4'-DDE (72-55-9)			X								µg/L	lb/day			
9P. 4,4'-DDD (72-54-8)			X								µg/L	lb/day			
10P. Dieldrin (60-57-1)			X								µg/L	lb/day			
11P. α-Enosulfan (115-29-7)			X								µg/L	lb/day			
12P. β-Endosulfan (115-29-7)			X								µg/L	lb/day			
13P. Endosulfan Sulfate (1031-07-8)			X								µg/L	lb/day			
14P. Endrin (72-20-8)			X								µg/L	lb/day			
15P. Endrin Aldehyde (7421-93-4)			X								µg/L	lb/day			
16P. Heptachlor (76-44-8)			X								µg/L	lb/day			

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
ALD000828848	DSN001B

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)			X								µg/L	lb/day			
18P. PCB-1242 (53469-21-9)			X								µg/L	lb/day			
19P. PCB-1254 (11097-69-1)			X								µg/L	lb/day			
20P. PCB-1221 (11104-28-2)			X								µg/L	lb/day			
21P. PCB-1232 (11141-16-5)			X								µg/L	lb/day			
22P. PCB-1248 (12672-29-6)			X								µg/L	lb/day			
23P. PCB-1260 (11096-82-5)			X								µg/L	lb/day			
24P. PCB-1016 (12674-11-2)			X								µg/L	lb/day			
25P. Toxaphene (8001-35-2)			X								µg/L	lb/day			

ADEM Form 187 Figure 2 - Supplement to Section C, Part 2
EPA Form 2C, Figure 1 - Supplement to Part II.A.
Walter Coke, Inc. - NPDES Permit No. AL0003247



EPA Form 2C Attachment 1
Walter Coke, Inc. - NPDES Permit No. AL0003247

Summary of Five Mile Creek Upstream Metal Concentrations

Parameter	Total	Dissolved	Units
Antimony	<0.00100	<0.00100	mg/L
Arsenic	0.000520	<0.000500	mg/L
Arsenate	-	0.243	ug/L
Arsenite (as Arsenic) [As III]	-	0.039	ug/L
Inorganic Arsenic	-	0.282	ug/L
Beryllium	<0.00100	<0.00100	mg/L
Cadmium	<0.00100	<0.00100	mg/L
Calcium	43.9	-	mg/L
Chromium	<0.00100	<0.00100	mg/L
Copper	0.00138	0.00117	mg/L
Lead	<0.00100	<0.00100	mg/L
Magnesium	19.1	-	mg/L
Mercury	<0.500	-	ng/L
Nickel	0.00158	0.00151	mg/L
Selenium	0.00203	-	mg/L
Silver	<0.00100	<0.00100	mg/L
Thallium	<0.00100	<0.00100	mg/L
Zinc	0.00868	0.00950	mg/L
Hardness (as CaCO3)	188	-	mg/L
Cyanide	0.00985	0.00406 [A]	mg/L

[A] Available Cyanide

EPA Identification Number	NPDES Permit Number	Facility Name
ALD 000828848	AL 0003247	Bluestone Coke, LLC

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

Form 2F NPDES

EPA

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

STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY

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

Outfall Location

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

Outfall Number	Receiving Water Name	Latitude	Longitude
001	Five Mile Creek	33° 35′ 5″ N	86° 47′ 26″ W
		° ′ ″	° ′ ″
		° ′ ″	° ′ ″
		° ′ ″	° ′ ″
		° ′ ″	° ′ ″
		° ′ ″	° ′ ″

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

Improvements

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?

☐ Yes ☑ No → SKIP to Section 3.

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)

☐ Yes ☐ No

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EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD 000828848	AL 0003247	Bluestone Coke, LLC	

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.)

☑ Yes ☐ 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.

Outfall Number	Impervious Surface Area (within a mile radius of the facility)		Total Surface Area Drained (within a mile radius of the facility)	
001	78	*specify units* acres	256	*specify units* acres
		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.)

All liquids and solids stored on the facility are contained and treated through equalization and sedimentation (settling). Coal and coke are stored onsite in piles to the North of the coke ovens. Slag and Slag Waste are stored in piles North of the Mineral Wool Building. Stormwater runoff from these areas is routed to the final pond for solids settling. Herbacides are occasionally applied on fence lines and transformer yards.

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.)

Stormwater Treatment		
Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F–1 (list)
001	Equalization	xx
	Sedimentation (settling) in the final pond	1-U

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
Tiger Lambert	Representative of the Company
Signature	Date signed

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
	The Permit outfalls are comingled non-stormwater and		
	Stormwater discharges are identified in the accompanin		
	EPA form 2C. There are no stormwater only outfalls,		
	Therefore no testing or evaluation is required.		

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.

There has been no leaks or spills of toxic or hazardous pollutants at the facility in th e past three years.

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?

☐ Yes → See instructions regarding submission of *estimated* data.

☑ No → See instructions regarding submission of *actual* data.

Tables A, B, C, and D

7.2 Have you completed Table A for each outfall?

☑ Yes ☐ No

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? ☑ Yes ☐ 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? ☑ Yes ☐ No
7.5	Do you know or have reason to believe any pollutants in Exhibit 2F–2 are present in the discharge? ☐ Yes ☑ 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? ☐ Yes ☐ No
7.7	Do you qualify for a small business exemption under the criteria specified in the Instructions? ☐ Yes →SKIP to Item 7.18. ☑ No
7.8	Do you know or have reason to believe any pollutants in Exhibit 2F–3 are present in the discharge? ☐ Yes ☑ 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? ☐ Yes ☐ No
7.10	Do you expect any of the pollutants in Exhibit 2F–3 to be discharged in concentrations of 10 ppb or greater? ☐ Yes ☑ 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? ☑ Yes ☐ 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? ☐ Yes ☑ 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? ☐ Yes ☐ 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)? ☑ Yes ☐ No
7.15	Do you know or have reason to believe any pollutants in Exhibit 2F–4 are present in the discharge? ☐ Yes ☑ 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? ☐ Yes ☐ No
7.17	Have you provided information for the storm event(s) sampled in Table D? ☑ Yes ☐ No

Discharge Information Continued

Used or Manufactured Toxics

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?

☐ Yes ☑ 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?

☑ Yes ☐ No → SKIP to Section 9.

8.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
Chronic Defintive	Permit Requirement	☑ Yes ☐ No	06/28/2020
		☐ Yes ☐ No	
		☐ Yes ☐ 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?

☑ Yes ☐ No → SKIP to Section 10.

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

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Enersolv Corporation		
Laboratory address	2220 Beltline Road SW Decatur, AL 35601		
Phone number	(256) 350-0846		
Pollutant(s) analyzed	All		

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD 000828848	AL 0003247	Bluestone Coke, LLC	

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
☑ Section 1	☐ w/ attachments (e.g., responses for additional outfalls)
☐ Section 2	☐ w/ attachments
☑ Section 3	☐ w/ site drainage map
☑ Section 4	☐ w/ attachments
☑ Section 5	☐ w/ attachments
☑ Section 6	☐ w/ attachments
☑ Section 7	☑ Table A ☐ w/ small business exemption request ☑ Table B ☐ w/ analytical results as an attachment ☑ Table C ☑ Table D
☑ Section 8	☐ w/attachments
☑ Section 9	☐ w/attachments (e.g., responses for additional contact laboratories or firms)
☑ Section 10	☐

10.2 **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
Tiger Lambert	Representative of the Company
Signature	**Date signed**
	7/10/20

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN)011 (See Data Attached)

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

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						
2.	Biochemical oxygen demand (BODs)	All analytical results	are reported on the	form 2C for DSN001.			
3.	Chemical oxygen demand (COD)						
4.	Total suspended solids (TSS)						
5.	Total phosphorus						
6.	Total Kjeldahl nitrogen (TKN)						
7.	Total nitrogen (as N)						
8.	pH (minimum)						
	pH (maximum)						

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN)011 (See Data Attached)

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

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))[1]

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 (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		
All analytical results are reported on the Form 2C						
for DSN001.						

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN}011 (See Data Attached)

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

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))[1]

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		
All analytical results are reported on form 2C						
for DSN001.						

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

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EPA Identification Number	NPDES Permit Number	Facility name	Outfall Number
ALD 000828848	AL 0003247	Bluestone Coke, LLC	DSN}011 (See Data Attached)

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

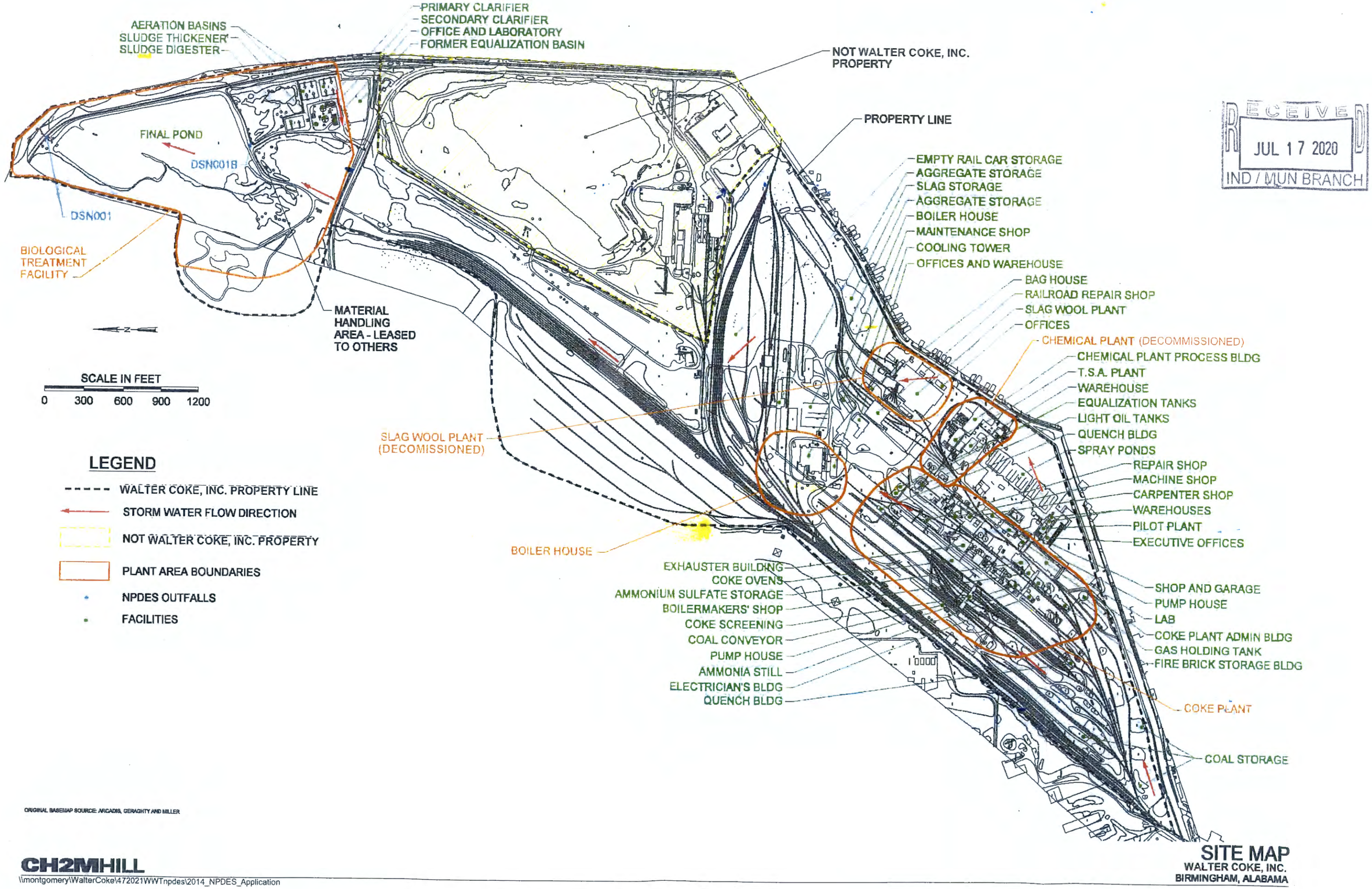
TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

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)

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

All analytical results are reported on the Form 2C for DSN001.



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SITE MAP

WALTER COKE, INC.
BIRMINGHAM, ALABAMA