

Alabama Department of Environmental Management adem.alabama.gov

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MARCH 23, 2020

(334) 271-7700 FAX (334) 271-7950

MR CARL GUNTER
MILL MANAGER
INTERNATIONAL PAPER PRATTVILLE
100 JENSEN ROAD
PRATTVILLE AL 36067

RE: DRAFT PERMIT

NPDES PERMIT NUMBER AL0003115

Dear Mr. Gunter:

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 period 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 your voluntary consideration of 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





NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE:	INTERNATIONAL PA	NPER
FACILITY LOCATION:	100 JENSEN ROAD PRATTVILLE, AL 360	067
PERMIT NUMBER:	AL0003115	
RECEIVING WATERS:	DSN001, DSN002: DSN003:	ALABAMA RIVER AUTAUGA CREEK
Pollution Control Act, as amended, Code of	f Alabama 1975, ∭ 22-22-1 to 22 and rules and regulations adopte	tion Control Act, as amended, 33 U.S.C. §1251-1388 (the "FWPCA"), the Alabama Water-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of the the the subject further to the terms and conditions set forth in this permit, the sters.
ISSUANCE DATE:		
EFFECTIVE DATE:		
EXPIRATION DATE:		
		•

INDUSTRIAL SECTION NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

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PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

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:

Process wastewaters, landfill leachate, wet decking process water, and storm water runoff from the construction and production area, the landfill, wood yard, and the clay borrow pit 3/

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

gg	DISCHARGE	MONITORING R	MONITORING REQUIREMENTS 1/					
EFFLUENT CHARACTERISTIC BOD, 5-Day (20 Deg. C) 4/	Monthly Average 0 lbs/day	<u>Daily</u> <u>Maximum</u> 0 lbs/day	<u>Daily</u> <u>Minimum</u> -	Monthly Average	<u>Daily</u> <u>Maximum</u> -	Measurement Frequency 2/ 3X Weekly test	Sample Type Composite	<u>Seasonal</u> May - October
BOD, 5-Day (20 Deg. C)	17354 lbs/day	34708 lbs/day	-	-	-	3X Weekly test	Composite	-
рН	-	-	6.0 S.U.	• .	9.0 S.U.	3X Weekly test	Grab	-
Solids, Total Suspended	37188 lbs/day	74376 lbs/day	-	-	-	3X Weekly test	Composite	-
Nitrogen, Ammonia Total (As N)	-	-	•	-	REPORT mg/l	Monthly	Composite	-
Nitrogen, Kjeldahl Total (As N)	•	-	-	-	REP O RT mg/l	Monthly	Composite	April - October
Nitrite Plus Nitrate Total 1 Det. (As N)	-	-	-	•	REPORT mg/l	Monthly	Composite	April - October
Phosphorus, Total (As P)	-	-	-	-	REPORT mg/l	Monthly	Composite	April - October

- 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/ To determine compliance with this parameter, a Net BOD₅ value should be reported. The Net BOD₅ value is determined by subtracting the allowable BOD₅ from the BOD₅ discharged. The allowable BOD₅ is the more stringent of the limit listed above and the BOD₅ limit calculated using the equation in Part IV.F. A value less than or equal to zero indicates compliance.

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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):

Process wastewaters, landfill leachate, wet decking process water, and storm water runoff from the construction and production area, the landfill, wood yard, and

the clay borrow pit 3/

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

	DISCHARGE	LIMITATIONS	<u> </u>					
	Monthly	<u>Daily</u>	<u>Daily</u>	<u>Monthly</u>	<u>Daily</u>	Measurement		
EFFLUENT CHARACTERISTIC	<u>Average</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	Frequency 2/	Sample Type	Seasonal
Flow, In Conduit or Thru Treatment	REPORT	REPORT	-	-	-	Daily	Totalizer	-
Plant	MGD	MGD						
Certification - River Monitoring	-	-	-	_	0	Monthly	Not Applicable	June - October
· ·					Yes=0; No=1	•	••	

- 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.

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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:

DSN001Q:

Process wastewaters, landfill leachate, wet decking process water, and storm water runoff from the construction and production area, the landfill, wood yard, and the clay borrow pit 3/

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

	DISCHARGE	LIMITATIONS	<u> </u>			MONITORING REQUIREMENTS 1/				
	Monthly	<u>Daily</u>	<u>Daily</u>	<u>Monthly</u>	<u>Daily</u>	Measurement				
EFFLUENT CHARACTERISTIC	<u>Average</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	Frequency 2/	Sample Type	<u>Seasonal</u>		
Pentachlorophenol 4/	-	3.3 lbs/day	-	-	-	Quarterly	Grab	-		
Trichlorophenol 4/	-	3.1 lbs/day	-	-	-	Quarterly	Grab	-		

- 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/ In lieu of monitoring for these parameters, the permittee may certify non-use of chlorophenolic containing compounds according to the requirements at 40 CFR 430.105 and 40 CFR 430.124 by entering *9 on the discharge monitoring report.

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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:

Process wastewaters, landfill leachate, wet decking process water, and storm water runoff from the construction and production area, the landfill, wood yard, and the clay

borrow pit 3/

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

	DISCHARGE	LIMITATIONS	MONITORING REQUIREMENTS 1/					
	Monthly 1	<u>Daily</u>	<u>Daily</u>	Monthly	<u>Daily</u>	Measurement		
EFFLUENT CHARACTERISTIC	Average	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	Frequency 2/	Sample Type	Seasonal
Toxicity, Ceriodaphnia Chronic 4/	-	0	-	•	-	Annually	Composite	-
		pass(0)/fail(1)						
Toxicity, Pimephales Chronic 4/	-	0	_	<u>.</u> .	-	Annually	Composite	-
		pass(0)/fail(1)				,,		

- 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.D for Effluent Toxicity and Biomonitoring Requirements.

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

DSN0021:

Noncontact turbine condenser cooling water

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

	DISCHARGE	LIMITATIONS	ì	MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC Temperature, Water Deg. Fahrenheit	Monthly Average	<u>Daily</u> <u>Maximum</u> -	<u>Daily</u> <u>Minimum</u> -	<u>Monthly</u> <u>Average</u> -	<u>Daily</u> <u>Maximum</u> 111 F	Measurement Frequency 2/ Monthly	Sample Type Grab	<u>Seasonal</u> -
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Monthly	Instantaneous	

- 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.

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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:

DSN003Q:

Non-contact fire pump pressure relief water, mill supply pump seal water, fire suppression water system water, and storm water runoff from the bark pile, oversized wood, skeet shooting range, and process water treatment areas. 3/

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

	DISCHARGE	LIMITATIONS	3		MONITORING REQUIREMENTS 1/				
	<u>Monthly</u>	Daily	<u>Daily</u>	<u>Monthly</u>	<u>Daily</u>	Measurement			
EFFLUENT CHARACTERISTIC	<u>Average</u>	<u>Maximum</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	Frequency 2/	Sample Type	<u>Seasonal</u>	
BOD, 5-Day (20 Deg. C)	-	-	-	REPORT mg/l	-	Quarterly	Grab	-	
Solids, Total Suspended	-	-	-	REPORT mg/l	-	Quarterly	Grab	-	
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	-	-	-	-	Quarterly	Instantaneous	-	

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

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

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.

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.

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;
- 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.

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 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following certification:

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

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

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

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

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

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

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:

- 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;
- 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);
- 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:
 - 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

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.

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:
 - name and general composition of biocide or chemical;
 - (2) 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge will ultimately reach;
 - (2) quantities to be used;
 - (3) frequencies of use;
 - (4) proposed discharge concentrations; and
 - (6) EPA registration number, if applicable.
- b. The use of a biocide or additive containing tributyl tin, tributyl tin oxide, zinc, chromium or related compounds in cooling or boiler system(s), from which a discharge regulated by this permit occurs, is prohibited except as exempted below. The use of a biocide or additive containing zinc, chromium or related compounds may be used in special circumstances if (1) the permit contains limits for these substances, or (2) the applicant demonstrates during the application process that the use of zinc, chromium or related compounds as a biocide or additive will not pose a reasonable potential to violate the applicable State water quality standards for these substances. The use of any additive, not identified in this permit or in the application for this permit or not exempted from notification under this permit is prohibited, prior to a determination by the Department that permit modification to control discharge of the additive is not required or prior to issuance of a permit modification controlling discharge of the additive.

6. Permit Issued Based On Estimated Characteristics

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

E. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the discharge limitations specified in Provision I. A. in accordance with the following schedule:

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

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.

Best Management Practices

- 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

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:

- 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;
- have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- 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

Bypass

- 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;

- 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.

Upset

- 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

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.

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.

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

- 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 335-6-6-0.6 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.

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:
 - 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:
 - 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 30l(c), 30l(g), 30l(h), 30l(k), or 3l6(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:

- 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;
- Materially false or inaccurate statements or information in the permit application or the permit;
- 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;
- 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.

Permit Suspension

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

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

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 <u>Code of Alabama</u> 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

- 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.
- 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

- 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.
- 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

- 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).
- 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.

- AWPCA means the Alabama Water Pollution Control Act.
- BOD means the five-day measure of the pollutant parameter biochemical oxygen demand.
- Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
- CBOD -- means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
- 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.
- 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.
- 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". <u>Code of Alabama</u> 1975, Section 22-22-1(b)(8).
- Discharge Monitoring Report (DMR) means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
- 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.
- 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.
- 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.
- 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.
- 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 <u>Code of Alabama</u> 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.
- TSS means the pollutant parameter Total Suspended Solids.
- 43. 24HC means 24-hour composite sample, including any of the following:
 - 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
 - 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.

- Waters means "[a]Il 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.
- 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

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.

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;
- 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;
- Provide for the use and disposal of any material used to absorb spilled fluids that could contaminate stormwater;
- 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;
- 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;

- 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.

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.

Department Review

- 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 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.
- All test procedures will be in accordance with part I.B. of this permit.

C. COOLING WATER INTAKE STRUCTURE (CWIS) REQUIREMENTS

- The cooling water intake structure used by the permittee has been evaluated using available information. At this
 time, the Department has determined, using BPJ, that the cooling water intake structure does represent the best
 technology available (BTA) to minimize adverse environmental impact(s) in accordance with Section 316(b) of
 the federal Clean Water Act (33 U.S.C. section 1326).
- 2. The permittee is required to operate and maintain the CWIS in a manner that minimizes impingement and entrainment levels. Documentation detailing the steps that have and are being taken to minimize the impingement and entrainment levels shall be maintained on site and made available upon request.
- Nothing in this Permit authorizes take for the purposes of a facility compliance with the Endangered Species
 Act.
- 4. The permittee shall submit the information for the CWIS as required by 40 CFR 122.21 (r) at least 180 days prior to expiration of the permit unless a request has been approved by the Department in writing. The facility must submit the request for reduced cooling water intake structure and waterbody application information to the Department at least two years and six months prior to the expiration of the permit. The permittee's request must identify each element that it determines has not been substantially changed since the previous permit application and the basis for the determination.
- The Permittee must keep records of all submissions that are part of the permit application pertaining to the CWIS
 until the subsequent permit is issued to the Permittee.
- 6. The Permittee's permit application must contain readily available information, at the time of permit application development, in identifying all Federally-listed threatened and endangered species and/or designated critical habitat that are or may be present in the action area.
- 7. The Permittee must conduct weekly visual inspections or employ remote monitoring devices during the period the cooling water intake structure is in operation. This condition is only applicable if control technologies are being employed to comply with BTA for impingement mortality.
- The Permittee is required to submit an Annual Certification to the Department no later than January 28th of each
 year. The Annual Certification shall detail if any changes have been made to impact the operation of the CWIS
 structure.

D. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS

- 1. 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
 - (1) The effluent shall be tested with appropriate replicates of 5% effluent, a control and a minimum of four serial dilutions of 1%, 3%, 53%, and 100% effluent.
 - (2) Noncompliance with the toxicity limit will be demonstrated if the IC₂₅ (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

- 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.

2. Effluent Toxicity Testing Reports

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

a. Introduction

- (I) 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
 - 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.
- 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

E. RECEIVING STREAM WATER QUALITY MONITORING REQUIREMENTS

The discharge authorized by this permit shall not cause a violation of the applicable dissolved oxygen standard downstream of the discharge. The permittee shall take steps necessary to ensure that its effluent does not result in dissolved oxygen values at the five-foot depth being depressed below the water quality standard as measure by the permittee, ADEM, EPA, or its successor.

Stream monitoring shall be performed between June through October downstream from the International Paper – Prattville discharge point to a point downstream not to extend beyond Jones Bluff Lock and Dam. Parameters to be monitoring shall be dissolved oxygen at the five-foot depth and water temperature.

Frequency

- Monitoring is required once per week under normal conditions.
- b. Monitoring is required daily during periods when the river is not flowing and an effluent release is occurring, unless it is determined by ADEM Water Division that either the river conditions or the volume of the discharge do no present a reasonable potential for adverse water quality impacts.
- c. Monitoring is not required during unsafe weather or river conditions.

2. Conditional Requirements

a. If the D.O. is less than 6.1 mg/L at river mile 250.2 and is decreasing by more than 0.3 mg/L between 253.8 and 250.2, the permittee will continue in-stream monitoring for dissolved oxygen at 2 mile intervals until the dissolved oxygen is no longer decreasing by more than 0.3 mg/L between stations.

Locations

Sampling stations will be at Alabama River miles 275.3, 268.7, 260.2, 253.8, and 250.2.

Sample Collection and Analysis

Sample collection and analysis shall be performed in accordance with EPA approved sample collection protocol and analysis methods. The times samples are collected should be reported and when practicable, all measurement should be made prior to 12:00 pm.

Reporting

River monitoring data shall be submitted electronically to an email address provided by the Department. The permittee is required to verify submittal of the river monitoring data by submitting a value of "0" on the discharge monitoring report for DSN0011 under the parameter "Certification – River Monitoring" for those months in which monitoring is required.

F. ADDITIONAL REQUIREMENTS

For the period from June through October, the rate of discharge of BODs shall be governed by the following formula:

$$BOD_5\left(\frac{lbs}{day}\right) = 0.0017 * Q_R^{1.6502}$$
, where QR is the daily mean river flow in cubic feet per second

Determination of river flows may be based on the discharge schedule at Jones Bluff Lock & Dam. A discharge may occur only when effluent release will not cause the in-stream dissolved oxygen to fall below 5.0 mg/L, in accordance with Part IV.E of this permit. The permittee shall, to the extent practicable, release only when the river is flowing.

ADEM PERMIT RATIONALE

PREPARED DATE: June 26, 2019 PREPARED BY: Alex Chavers REVISED DATE: February 4, 2019

Permittee Name:

International Paper

Facility Name:

International Paper Prattville

Permit Number:

AL0003115

PERMIT IS REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS & DESCRIPTIONS:

DSN001:

Process wastewaters, landfill leachate, wet decking process water, and storm water runoff from the

construction and production area, the landfill, wood yard, and the clay borrow pit

DSN002:

Noncontact turbine condenser cooling water

DSN003:

Non-contact fire pump pressure relief water, mill supply pump seal water, fire suppression water

system water, and storm water runoff from the bark pile, oversized wood, skeet shooting range,

and process water treatment areas

INDUSTRIAL CATEGORY: 40 CFR 430: Pulp, Paper, and Paperboard Point Source Category

Subpart C - Unbleached Kraft Subcategory

Subpart J - Secondary Fiber Non-Deink Subcategory

40 CFR 429: Timber Product Processing Point Source Category

Subpart I - Wet Storage Subcategory

MAJOR:

Y

STREAM INFORMATION:

DSN001, DSN002 - Alabama River Receiving Stream:

Classification:

Fish & Wildlife

River Basin:

Alabama River Basin

7Q10:

4,056 CFS

7Q2:-

6,313 CFS

1Q10:

3,042 CFS

Annual Average Flow: 24,156 CFS

303(d) List:

NO

Impairment:

N/A

TMDL:

NO

Receiving Stream:

DSN003 - Autauga Creek

Classification:

Fish & Wildlife

River Basin:

Alabama River Basin

7Q10:

49 CFS

7Q2:

75 CFS

1010:

36.75 CFS

Annual Average Flow: 193 CFS

303(d) List:

NO

Impairment:

N/A

TMDL:

NO

DISCUSSION:

The International Paper Prattville Mill utilizes the kraft (sulfate) process to produce pulp, turpentine, and wood fat soaps from wood chips. Pulp is also produced from post-consumer waste paper. Produced pulp is converted to linerboard using two paper machines. Crude tall oil is produced by acidulation of wood fat soaps (black liquor skimmings) and is shipped offsite. Crude sulfate turpentine is condensed, recovered, and shipped offsite.

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.

EPA has not promulgated specific guidelines for the discharges covered under the proposed permit. Proposed permit limits are based on Best Professional Judgment. The proposed frequencies are based on a review of sitespecific conditions and an evaluation of similar facilities.

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'Parameter	Monthly Avg Loading	<u>Daily Max</u> Loading	<u>Daily Min</u> Concentration	Monthly Avg Concentration	<u>Daily Max</u> Concentration	Sample Frequency	Sample Type	Basis*
BOD, 5-Day (20 Deg. C)	0 lbs/day	0 lbs/day	<u>-</u>	_		3X Weekly test	Composite	WQBEL
BOD, 5-Day (20 Deg. C)	17354 lbs/day	34708 lbs/day	-	-	_	3X Weekly test	Composite	EGL/ABS
pH		•	6.0 S.U.	<u>-</u>	9.0 S.U.	3X Weekly test	Grab	WQBEL/ EGL
Solids, Total Suspended	37188 lbs/day	74376 lbs/day	-	-	-	3X Weekly test	Composite	EGL/ABS
Nitrogen, Ammonia Total (As N)	-	-	_	_	REPORT mg/l	Monthly	Composite	ВРЈ
Nitrogen, Kjeldahl Total (As N)	-	-	-	_	REPORT mg/l	Monthly	Composite	ВРЈ
Nitrite Plus Nitrate Total 1 Det. (As N)			-	-	REPORT mg/l	Monthly	Composite	ВРЈ
Phosphorus, Total (As P)	-	-	_	-	REPORT mg/l	Monthly	Composite	BPJ
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	ВРЈ
Certification – River Monitoring	-	_	: : :	-	0 Yes=0; No=1	Monthly	Not Applicable	WQBEL

0010:

	Monthly Avg	Daily Max	Daily Min	Monthly Avg	Daily Max	Sample	Sample Type	1
<u>Parameter</u>	Loading	Loading	Concentration	<u>Concentration</u>	<u>Concentration</u>	Frequency		Basis*
Pentachlorophenol	-	3.3 lbs/day	-	-	- :	Quarterly	Grab	EGL
Trichlorophenol	_	3.1 lbs/day	-	-	<u> - </u>	Quarterly	Grab	EGL

001T:

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

0021:

<u>Parameter</u>	Monthly Avg Loading	<u>Daily Max</u> <u>Loading</u>	<u>Daily Min</u> <u>Concentration</u>	Monthly Avg Concentration	<u>Daily Max</u> Concentration	Sample Frequency	Sample Type	Basis*
Temperature, Water Deg. Fahrenheit	The state of the s	-	-	•	111 °F	Monthly	Grab	WQBEL/ BPJ
Flow, In Conduit or Thru Treatment Plant	_	REPORT MGD	•	-	-	Monthly	Instantaneous	ВРЈ

003Q:

Parameter Parameter	Monthly Avg Loading	<u>Daily Max</u> <u>Loading</u>	Daily Min Concentration	Monthly Avg Concentration	<u>Daily Max</u> Concentration	<u>Sample</u> Frequency	Sample Type	Basis*
BOD, 5-Day (20 Deg. C)	·		-	REPORT mg/l	-	Quarterly	Grab	BPJ
Solids, Total Suspended	-	•	-	REPORT mg/l	-	Quarterly	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	•	-	-	-	Quarterly	Instantaneous	ВРЈ

*Basis for Permit Limitation

- BPJ Best Professional Judgment
- ABS Antibacksliding
- WQBEL Water Quality Based Effluent Limits
- ELG Federal Effluent Limitations Guidelines
- 303(d) 303(d) List of Impaired Waters
- TMDL Total Maximum Daily Load Requirements

<u>DSN001</u> – Process wastewaters, landfill leachate, wet decking process water, and storm water runoff from the construction and production area, the landfill, wood yard, and the clay borrow pit

Best Professional Judgment (BPJ)

Flow

Flow monitoring will be continued as totalized daily readings.

<u>Nutrients</u>

Monitoring for Ammonia as Nitrogen, Total Kjeldahl Nitrogen, Nitrates + Nitrites, and Total Phosphorus will be continued in this permit issuance. The frequency of monitoring will remain at once per month during the growing season (April to October).

Water Quality Based Effluent Limits (WQBEL)

Biochemical Oxygen Demand (5-Day)

BOD5 is regulated under 40 CFR 430; however, to ensure protection of water quality during critical periods the discharge of BOD is regulated by an equation from June through October, inclusive. Based on historical data, this equation has proven to be effective at preventing the facility's discharge from causing a contravention of the in-stream D.O. standard.

$$BOD5 \left(\frac{lbs}{day}\right) = 0.0017 Q_R^{L9502}$$

Q_R = daily mean flow in the Alabama River in CFS

In order to ensure the Department can effectively track compliance with a fluctuating limitation, the facility will be required to report a <u>Net BQD5</u> value according to the following equations. A value of less than zero is considered compliant with permit limitations.

$$Net \ BOD5 \ (Daily \ Maximum) = Daily \ Allowable \ BOD5 \ \left(\frac{lbs}{day}\right) - Actual \ BOD5 \ discharged \ \left(\frac{lbs}{day}\right)$$

$$Net \ BOD5 \ (Monthly \ Average) = Average \ of \ Daily \ Allowable \ BOD5 \ \left(\frac{lbs}{day}\right) - Average \ BOD5 \ discharged \ \left(\frac{lbs}{day}\right)$$

Toxicity Testing

The facility will continue to be required to perform whole effluent toxicity testing on an annual basis. A mixing zone analysis was performed by the facility and reviewed by the Department. Based on the analysis, toxicity testing is required on a chronic basis due to a limiting dilution of less than 100:1 with an IWC of 5% (rounded up from 4.42%). The facility has requested to perform definitive testing in lieu of a screening test. The dilutions to be used for the test are as follows: 1%, 3%, 5%, 53%, and 100%.

Reasonable Potential Analysis

A reasonable potential analysis was performed using analytical data submitted with the application for DSN001. No parameters included in that analysis showed a reasonable potential to violate water quality standards; therefore, no additional limitations are proposed to be included in this permit issuance.

Federal Effluent Guideline Limitations (EGL)

The facility is regulated under 40 CFR 430 Subpart C and 40 CFR 430 Subpart J, which provides effluent limitation guidelines for the production processes used by the facility. Calculation of the effluent limitations for these subparts can be found in Attachment A to this rationale.

Landfill Leachate

Landfill leachate, which is also discharged through DSN001, is regulated under 40 CFR 445; however, 40 CFR 445.1(e) specifies that the regulations therein "do not apply to dischargers of landfill wastewater from landfills operated in conjunction with other industrial or commercial operations when the landfill only

receives wastes generated by the industrial or commercial operations directly associated with the landfill". Therefore, limitations found at 40 CFR 445.1(e) will not be applied to discharges from DSN001.

рH

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 current limitations of 6.0-9.0 S.U. will be continued. Due to the low effluent flow/stream flow ratio, the discharge is not expected to affect the pH of the receiving stream and the existing limitations are consistent with the applicable effluent guideline limitations at 40 CFR 430 and 40 CFR 429.

Biochemical Oxygen Demand (5-Day), Total Suspended Solids*

The previous permit determined BOD5 limitations for Subpart C using 40 CFR 430.32(a) (BPT effluent limitations for unbleached Kraft facilities); however, after a review of the facility's operations, the appropriate effluent guideline limitations should be 40 CFR 430.33(b) (BCT effluent limitations for unbleached Kraft facilities where pulp and paper are produced using a combined unbleached Kraft and semi-chemical process...). Additionally, Subpart J provides effluent guideline limitations for production of corrugated medium (40 CFR 102(b)).

The facility has requested an increase to the allowable loadings in the discharge based on a sustained production increase and available assimilative capacity in the receiving stream. Based on the analytical data available to the Department, the facility is consistently able to meet the current permit limitations and has not demonstrated a need for additional allocation; therefore, it is proposed to continue the existing limitations, with the noted corrections below, in this permit issuance.

*The existing limitation were calculated using ELG factors from Subpart C only; however, the facility is also subject to the Subpart J. It is not proposed to adjust the existing limitations based on this previous omission, as the facility is currently able to meet the existing limitations, which are significantly less than the guidelines allow based on current levels of production, and would not change significantly.

Pentachlorophenol*, Trichlorophenol*

These parameters are regulated under 40 CFR 430.34 and 40 CFR 430.104. The sum of these two guidelines provides the final limitations applicable to the discharge; however, the existing permit limitations are more stringent and will be continued.

*In lieu of monitoring for these parameters, the facility can submit an annual certification of non-use as described at 40 CFR 430.02(f) by reporting a value of *9 on the discharge monitoring report.

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

The receiving stream is not listed on the 2018 303(d) List of Impaired Water nor has a TMDL been developed; therefore, no additional monitoring requirements are proposed for this permit issuance.

Stream Monitoring Requirements

The facility is required to conduct river monitoring surveys on a periodic basis for the period from June through October, inclusive. The specific details of the river monitoring requirements can be found in Part IV.F of the permit. The previous permit included language that made river surveys required outside of the period noted above if the flow was below a certain threshold; however, this language was updated to require river surveys only during the period noted above, regardless of river flow.

316(b) Cooling Water Intake Structure Requirements

Section 316(b) of the Clean Water Act requires that facilities minimize adverse environmental impacts resulting from the operation of cooling water intake structures (CWIS) by using the "best technology available" (BTA). U.S. EPA has promulgated rules to implement these requirements under Phase I, Phase II, and Phase III of the rules; however, many facilities that operate intake structures do not fall into these categories and are classified as miscellaneous facilities. For these miscellaneous facilities, a BTA determination must be made using BPJ.

The cooling water intake structure (CWIS) used by the permittee has been evaluated using available information. At this time, the Department has determined, using BPJ, that the cooling water intake structure represents the best technology available (BTA) to minimize adverse environmental impact in accordance with Section 316 (b) of the Federal Clean Water Act (33 U.S.C. section 1326) due to the actual through screen intake flow velocity being less than 0.5 ft/s, the use of fish detraction technology (i.e. rotating screen), the design intake flow being less than 5% of the mean annual flow, and only 4.2% of the withdrawn water being used for cooling purposes.

The requirements that facilities must comply with are listed below:

- 1. The permittee shall submit the following information at least 180 days prior to expiration of this permit:
 - design in-take flow of the CWIS;
 - percentage of in-take flow, based on highest monthly average in last 5 years, used for cooling purposes;
 - an estimate of the in-take flow reduction at the facility based upon the use of a 100 percent (or some lesser percentage) closed-cycle re-circulating cooling water system compared to a conventional oncethrough cooling water system;
 - through screen design in-take flow velocity;
 - any impingement and entrainment data that may have been collected based on the operation of the facility's CWIS, collected since the effective date of this NPDES permit; and,
 - a detailed description of any changes in the operation of the CWIS, or changes in the type of technologies used at the CWIS such as screens or other technologies affecting the rates of impingement and/or entrainment of fish and shellfish.
- The permittee is required to operate and maintain the CWIS in a manner that minimizes impingement and
 entrainment levels. Documentation detailing the steps that have and are being taken to minimize the
 impingement and entrainment levels shall be maintained on site and made available upon request.
- 3. The Permittee must keep records of all submissions that are part of the permit application pertaining to the CWIS until the subsequent permit is issued to the Permittee.
- 4. Nothing in this Permit authorizes take for the purposes of a facility compliance with the Endangered Species Act.

DSN002: Non-contact turbine condenser cooling water

Temperature

ADEM Administrative Code 335-6-10-.09(5)(e)3(i) states that the maximum stream temperature in the Alabama River Basin shall not exceed 90 degrees Fahrenheit. Based on the low effluent flow/stream flow ratio, no evidence of past adverse effects, historical sampling data, and adequate travel time to the river to allow for cooling, the existing limit of 111°F is expected to be protective of water quality.

Total Residual Chlorine

The facility does not use a chlorine-treated water supply for cooling purposes; therefore, this parameter is not expected to be present in significant amounts and no monitoring is proposed.

DSN003:

Non-contact fire pump pressure relief water, mill supply pump seal water, fire suppression water, and stormwater runoff from bark pile, oversized wood, skeet shooting range, and process water treatment areas.

Biochemical Oxygen Demand (5-Day), Total Suspended Solids

Based on the nature of the operations at the facility, monitoring stormwater for these parameters is expected to provide a measure of effectiveness of the facility's BMP plans.

Total Residual Chlorine

The facility does not use a chlorine-treated water supply for the non-stormwater sources to DSN003; therefore, this parameter is not expected to be present in significant amount and no monitoring is proposed.

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 (February 4, 2019)

Based on comments received by the facility, the following changes were made to the permit and/or rationale:

- Wet decking process wastewater and storm water runoff form the wood yard was included as a contributing source to DSN001, which did not result in any changes to permit requirements.
- The pentachlorophenol daily maximum, BOD5 daily maximum, and TSS daily maximum and monthly
 average limitations were corrected to be consistent with the previous permit. The rationale discussion was
 modified to reflect this change.
- The time in which an equation is to be used to determine water quality based effluent limitations was specified as June through October in the rationale discussion and Part IV of the permit.
- The required toxicity testing has been revised to definitive testing (in lieu of screening).
- Attachment A to the rationale was corrected to show a required pH range of 6.0 to 9.0 S.U.

ATTACHMENT A: EFFLUENT GUIDELINE CALCULATIONS

Permit Limits Summary

Pollutant	Daily Maximum (lbs/day)	Monthly Average (lbs/day)	Basis
		Curr	ent Permit
BOD5 (Market Pulp)	34,708	17,354	June 1996 Production
TSS (Market Pulp)	74,376	37,188	June 1996 Production
Pentachlorophenol	3.30		June 1996 Production
Trichlorophenol	3.10		June 1996 Production
Note: The current limitations are b	pased on Subpart C; however, the	e facility is subject to both Subpa	rt C and Subpart J, which has been corrected in the Renewal Application calculations
		Renewa	al Application
BOD5 (Market Pulp)	46,643	23,255	Highest Monthly Average of Last 12 Months (July '17 to June '18)
TSS (Market Pulp)	95,945	47,972	Highest Monthly Average of Last 12 Months (July '17 to June '18)
Pentachlorophenol	5.20	-	Highest Monthly Average of Last 12 Months (July '17 to June '18)
Trichlorophenol	4.1	-	Highest Monthly Average of Last 12 Months (July '17 to June '18)
Note: Renewal application limitati	ons are bosed on Subpart J and :	Subpart C of 40 CFR 430 using th	e production values provided in the permit application.
		Proposed P	ermit Limitations
BOD5 (Total)	34,708	17,354	
TSS (Total)	74376	37188	
Pentachlorophenol	3.30		
Trichlorophenol	3.1		

2018 Renewal Application

40 CFR 430 - Pulp and Paper Production Point Source Category

Subpart C - Unbleached Kraft Subcategory

40 CFR 430.32 - Best Practicable Technology (BPT) /Best Conventional Technology (BCT)

BPT effluent limitations for unbleached kraft facilities

PM1 Unbleached KraftProduction PM2 Unbleached Kraft Production Off-the-machine production =

1,894 ADT/day 1,594 ADT/day 6,976,798 lbs/day

Pollutant*	Continuo	us Discharges	Cluster Limitations				
	Daily Maximum (lbs/1000 lbs product)	Monthly Average (lbs/1000 lbs product)	Daily Maximum (lbs/day)	Manthly Average (lbs/day)			
	5.6	2.8	39070	19535			
TSS	12	6	83722	41861			

pH within the range of 5.0 to 9.0 S.U.

40 CFR 430.34 Best Available Technology (BAT)

Pollutant Pentachlorophenol	Continue	ous Discharges	Cluster Limitations			
	Daily Maximum (lbs/1000 lbs product)	Monthly Average (lbs/1000 lbs product)	Daily Maximum (lbs/day)	Monthly Average (lbs/day)		
Pentachlorophenol	0.00058	- <u>'</u>	4.05	_		
Tricholorphenol	0.00053		3.70	•		

Subpart J - Secondary Fiber Nondeink Subcategory

40 CFR 430.102 - Best Practicable Technology (BPT*) = Best Conventional Technology (BCT)

*BPT = BAT Effluent Limitations

Secondary fiber non-deink facilities where paperboard from wastepaper is produced - corrugating medium finish subdivision

PM1 Unbleached Production PM2 Unbleached Production Off-the-machine production =

312.0 ADT/day 352.3 ADT/day 1,328,589 lbs/day

	Continuous Discharges Cluster Limitations						
Pallutant*	Daily Maximum Manthly Average (lbs/1000 lbs product) (lbs/1000 lbs product)		Daily Maximum (lbs/day)	Monthly Average (lbs/day)			
BOD ₅	5.7	2.8	7573	3720			
TSS	9.2	4.6	12223	6112			

PH within the range of 6.0 to 9.0 S.U.

40 CFR 430.104 Best Available	Technology (BAT)						
	Continuo	us Discharges	Cluster Limitations				
Pollutant	Daily Maximum (lbs/1000 lbs product)	Monthly Average (lbs/1000 lbs product)	Daily Maximum (lbs/day)	Monthly Average (lbs/day)			
Pentachlorophenol	0,00087		1.16	-			
Tricholombono!	0.00030		0.40	-			

Pollutant	Dally	Maximum
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD ₅	45543	23255
TSS	95945	47972
Pentachlorophenol	5.20	<u> </u>
Trichlorophenol	4.10	-

Current Permit Limitations (Subpart C)

40 CFR 430 - Pulp and Paper Production Point Source Category

Subpart C - Unbleached Kraft Subcategory

40 CFR 430.32 - Best Practicable Technology (BPT) /Best Control Technology (BCT)

BPT effluent limitations for unbleached kraft facilities

Unbleached Kraft Linerboard

3099 ADT/day

Off-the-machine production =

6,197,857 lbs/day

	Continuo	us Discharges	Cluster Limitations				
Pollutant*	Daily Maximum (lbs/1000 lbs product)	Monthly Average (lbs/1000 lbs product)	Daily Maximum (lbs/day)	Monthly Average (lbs/day)			
BOD ₅	5.6	2.8	34708	17354			
TSS	12	6	74374	37187			

^{*}pH within the range of 5.0 to 9.0 S.U.

40 CFR 430.34 Best Available Technology (BAT)

Pollutant	Continuo	us Discharges	Cluster Limitations				
	Daily Maximum (lbs/1000 lbs product)	Monthly Average (lbs/1000 lbs product)	Daily Maximum (lbs/day)	Monthly Average (lbs/day)			
Pentachlorophenol	0.00058	-	3.59	-			
Tricholorphenol	0.00053		3.28				

Pollutant	Daily I	Maximum
	Daily Maximum (lbs/day)	Monthly Average (lbs/day)
BOD ₅	34708	17354
TSS	74376	37188
Pentachlorophenol	3.3	
Trichlorophenol	3.1	•

^{*}These limitations are based on June 1996 production numbers and have been carried forward to prevent anti-backsliding in previous permit issuances

ATTACHMENT B: REASONABLE POTENTIAL ANALYSIS

NPDES No.: AL0003115

	$Q_d*C_d + Q_{d2}*$		es C	Background	Background	Background	Background	Daily Discharge as	Daily Discharge as	Parti Coeffi
ID	Pollutant	Carchogen "yes"	Туре	from upstream source (C ₆₂)	from upstream source (C _{d2}) Monthly Avn	Instream (C _s) Bally Max	Instream (C _s) Monthly Ave	reported by Applicant (C _d) Max	reported by Applicant (C _d) Ave	(Stre
1	Antimony		Metals	947) 0	<i>ua/l</i> 0	d/I	uo/l	0 0	и а/) О	
2	Arsenic*,** Berylium	YES	Metals Metals	0	0	0	0	0	0	0.5
4	Cadmium**		Metals	0	0	0	0	0	0	0.2
6	Chromium / Chromium III** Chromium / Chromium VI**		Metals Metals	0	0.	0	0	0	0	
7	Copper** Lead**		Metals Metals	0	0	0	0	0	0	0.3
9	Mercury**		Metals	0	0	0	0 0	0	0	0.3
	Nickel** Selenium		Metals Metals	0	0	0	0	0.29	2.8 0.29	0.5
	Silver		Metals Metals	0	0	0	0	0	0	
	Thallium Zinc**		Metals	0	ő	0	0	19	19	0.3
	Cyanide Total Phenolic Compounds		Metals Metals	0	0	0	0	0	0	
17	Hardness (As CaCO3)		Metals	0	0	0	0	8	0	
	Acrolein Acrylonitrile*	YES	VOC	0	0	0	0	0	0	
20 21	Aldrin Benzene*	YES	VOC	0	0	0	0	0	0	
22	Bromoform*	YES	VOC	0	0	0	0	0	0	
23	Carbon Yetrachloride* Chlordane	YES YES	VOC	0	0	0	0 0	0	0	
	Clorobenzene Chlorodibromo-Methane*	YES	VOC	0	0	0	0	0	0	
27	Chloroethane	1.0	VOC	0	0	0	0	0	0	
28	2-Chloro-Ethylvinyl Ether ChloroForm*	YES	VOC	0	0	0	0	0	0	
30 31	4,4'-DDD 4,4'-DDE	YES	VOC	0	0	0	0	0	0	-
32	4.4'-DOT	YES	voc	0	0	0	0	0	0	
33 34	Dichlorobromo-Methane* 1, 1-Dichloroethane	YES	VOC	0	8	0	0	0	0	
35	1, 2-Dichloroethane* Trans-1, 2-Dichloro-Ethylene	YES	VOC	0	0	0	0	0	0	
37	1, 1-Dichloroethylene*	YES	VOC	0	0	0	0	0	0	
	2-Dichloropropane 3-Dichloro-Propylene	-	VOC	0	0	0	0	0	0	
40	Dieldrin	YES	VOC	0	0	o o	0	0	0	
42	Ethylbenzene Methyl Bromide		VOC	0	0	0	0	0	0	
43	Methyl Chloride 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* Toluene	YES	VOC	0	0	0	0	0	0	
	Toxaphene Tributyitise (TBT)	YES	VOC	0	0	ο ο	0	0	0	
50	1, 1, 1-Trichloroethane		VOC	0	0	0	0	0	0	_
	1, 1, 2-Trichloroethane* Trichlorethylene*	YES YES	VOC	0	0	0	0	0	0	
53	Vinyl Chloride* P-Chloro-M-Cresol	YES	VOC Acids	0	0	0	0	0	0	
	2-Chiorophenol		Acids	0	0	0	0	0	. 0	
56	2, 4-Dichlorophenol 2, 4-Dimethylphenol		Acids Acids	0	0	0	0	0	0	1
58	4, 6-Dinitro-O-Cresol		Acids	0	0	0	0 1	0	0	
60	2, 4-Dinitrophenol 4,6-Dintro-2-methylophenol	YES	Acids Acids	0	0	0	0	0	0	
	Dioxin (2,3,7,8-TCDD) 2-Nitrophenol	YES	Acids Acids	0	0	0	0	0	0	
63	4-Nitrophenol		Acids	0	0	ø	0	0	0	
	Pentachlorophenol* Phenol	YES	Acids Acids	0	0	0	0	0	0	
66	2, 4, 6-Trichlurophenol* Acenaphthene	YES	Acids Bases	0	0	0	0	0	0	
68	Acenaphthylene		Bases	0	0	0	0	0	0	
70	Anthracene Benzidine		Bases Bases	0	0	0	0 0	0	0	
	Benzo(A)Anthracene*	YES YES	Bases	0	0	0	0	0	0	
73	Benzo(A)Pyrene* 3, 4 Benzo-Fluoranthene	165	Bases	0	0	0	0	0	0	
	Benzo(GHI)Perylene Benzo(K)Fluoranthene		Bases	0	0	0	0	0	0	
76		YES	Bases Bases	0	0	0	0	0	0	
78	Bis (2-Chloroiso-Propyl) Ether	-	Bases	0	0	. 0	0	0	0	
79 80		YES	Bases Bases	0	0	0	0	0	0	
81	Butyl Benzyl Phthalate		Bases Bases	0	0	0	0	0	0	
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	9	0	0	1
85		YES	Bases Bases	0	0	0	0	0	0	
	Di-N-Octyl Phthalate Dibenzo(A,H)Anthracene*	YES	Bases Bases	0	0	0	0	0	0	
88	1, 2-Dichlorobenzene	-	Bases	0	0	0	0	0	0	
	1, 4-Dichlorobenzene	1	Bases Bases	0	0	8	0	0	0	
91		YES	Bases Bases	0	0 B	0	0	0	0	
93	Dirnethyl Phthalate	New A	Bases	D	0	0	0	0	0	
95		YES	Bases Bases	0	0	. 0	o	0	0	
96 97		YES	Bases Bases	0	0	0	0	0	0	1
98	Endosulfan (beta)	YES	Bases Bases	0	0	0	0	0	0	1
100	Endosulfan sulfate Endrin	YES	Bases	0	0	0	0	0	0	1
101	Endrin Aldeyhide Fluoranthene	YES	Bases Bases	0	0	0	0	0	0	
103	Fluorene	YES	Bases	0	0	0	0	0	0	
105		YES	Bases Bases	0	0	0	0	0	0	1
	Hexachlorobenzene* Hexachlorobutadiene*	YES YES	Bases Bases	0	0	0	0	0	0	1
108	Hexachlorocyclohexan (alpa)	YES	Bases	0	0	0	0	0	0	
	Hexachlorocyclohexan (beta) Hexachlorocyclohexan (gamma)	YES YES	Bases Bases	0	0	0	0	0	0	1
111	HexachlorocycloPentadiene		Bases	0	0	0	0	0	0	1
	Hexachloroethane Indeno(1, 2, 3-CK)Pyrene*	YES	Bases Bases	0	0	0	0	0	0	1
	Isophorone		Bases Bases	0	0	0	0	0	0	1
116	Nitrobenzene		Bases	0	0	0	0	0	0	I
	N-Nitrosodi-N-Propylamine* N-Nitrosodi-N-Methylamine*	YES	Bases Bases		0	0	0	0	0	1
115	N-Nitrosodi-N-Phenylamine*	YES	Bases	0	0	0	0	0	0	1
121	PCB-1016 PCB-1221	AE2 AE2	Bases Bases	0	0	Q.	0	0	0	1
122		YES YES	Bases Bases	0	0	0 0	0 0	0	0	
124	PCB-1248	YES	Bases	0	0	0	0	0	0	1
125	PCB-1254 PCB-1260	YES YES	Bases Bases	0	0	0	0	0	0	1
	Phenanthrene	1	Bases	0	0	0	0	0	0	1

32.4	Enter Q _d = wastewater discharge flow from facility (MGD)
50.1302196	Q ₄ = wastewater discharge flow (cfs) (this value is caluciated 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)
4056	Enter 7Q10, Q ₄ = background stream flow in cfs above point of discharge
3042	Enter or estimated, 1Q10, Q _s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
24156	Enter Mean Annual Flow, Q _a = background stream flow in cfs above point of discharge
6313	Enter 7Q2, Q _s = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to Left	Enter C, = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
2, +Qd2+Q,	Q, = resultant in-stream flow, after discharge
Calculated on other	C, = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
50	Enter, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
7.00 s.u.	Enter, Background pH above point of discharge
YES	Enter, is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals)

^{**} Using Partition Coefficients

Facility Name: International Paper Prattville NPDES No.: AL0003115

shwater F&W classification.				Max Daily	Free	hwater Acute	(Mg/l) Q, =1Q10			Avg Dady	Fresh	mater Chronic	(µg/l) Q, = 7Q1	0		ogen Q, = An -Carcinogen (ĺ
Poliutarit	RP7	Carcinogen	Background from upstream source (Cd2) Delly Max	Discharge as reported by Applicant (Cons.)	Water Quality Criteria (C.)	Draft Permit Limit (C _{treat})	20% of Draft Permit Limit	RP7	Background from upstream source (Cd2) Monthly Ave	Discharge as reported by Applicant (C _{aup})	Water Quality Critoria (C,)	Draft Permit Limit (C _{amp})	20% of Draft Permit Limit	RP7	Water Quality Criteria (C _r)	Oraft Permit Limit (C _{des})	20% of Draft Permit Limit	
1 Antimony 2 Arsenic		YES	0	0	502.334	36536.353	7307.271	No	0 0	0 0	261.324	21404.864	4280.973	No	3.73E+02 3.03E-01	3.06E+04 1.46E+02	6.12E+03 2.93E+01	
Berylium Cadmium	1	TES	0	0	4.347	268.139	53.628	No.	0	0	0.644	52.718	10.544	No	3.03E-01	1.46E+02	2.93E+01	
5 Chromium/ Chromium III 5 Chromium/ Chromium VI	1		0	0	1537.913 16.000	94861.483 986.911	18972.297 197.382	No No	0	0	200.051 11.000	16386.023 901.002	3277.205 160.200	No Na		:	:	
7 Copper Lead			0	0	18,02 0 146,291	1111.902 9023.506	222.380 1804.701	No No	0	0	12.766 5.701	1045.619 466.944	209.124 93.389	No No	:	:	-:	
Mercury Nickel			0	0 2.8	2.400 515.824	148.037 31817.057	29.607 6363.411	No No	0	0 2.8	0,012 57.292	0.983 4692.760	0.197 938.552	No No	4.24E-02 9.93E+02	3.47E+00 8.13E+04	6.95E-01 1.63E+04	
Selenium Silver			0	0.29	20.000 0.978	1233.639 60.229	246.728 12.048	No	0	0.29	5.000	409.548	81,909	No .	2.43E+03		3.98E+04	
3 Thallium 4 Zinc			0	19	197.369	12174.095	2434.819	No	0	19	198,883	16298.577	3259.715	No	2.74E-01 1.49E+04	1.22E+06	4.48E+00 2.44E+05	5
Cyanide Total Phenolic Compounds Hardness (As CaCO3)			0	0	22.000	1357.003	271.401	No -	0	0	5.200	425.928	85,186	No -	9.33E+03	7.64E+05	1.53E+05	
Acrolein Acrylonitrile		YES	0	0	-:	- 1			0	0			-:		5.43E+00 1.44E-01	4.44E+02	8.89E+01	
Aldrin Benzene	1	YES	0	0	3.000	185.046	37.009	No	0	0					2.94E-05 1.55E+01	6.95E+01 1.42E-02	1.39E+01 2.84E-03	
2 Bromoform 3 Carbon Tetrachloride		YES	0	0	1		:		0	0	1	- :	:	-	7.88E+01	7.47E+03 3.80E+04	1.49E+03 7.61E+03	3
Chlordane Clorobenzene		YES	0	0	2.400	148.037	29 607	Na	0	0	0.0043	0.352	0.070	No	9.57E-01 4.73E-04	4.62E+02 2.28E-01	9.24E+01 4.57E-02	
Chlorodibromo-Methane Chloroethane		YES	0	0		:	: 1	1	0	0			-	-	9.06E+02 7.41E+00	7.42E+04 3.58E+03	1.48E+04 7.15E+02	
2-Chloro-Ethylvinyl Ether ChloroForm		YES	0	0				÷	0	0								
4.4' - DDD		YES	0	0		-:		-	0	0	T .				1.81E-04 1.81E-04	4.93E+04 8.76E-02 6.18E-02	9.85E+03 1.75E-02 1.24E-02	
4.4 - DDT Dichlorobromo-Methane	-	YES	0	0	1.100	67.850	13.570	No	0	0	0.001	0.082	0.016	No	1.28E-04 1.08E+01	6.18E-02 4.85E+03	1.24E-02 9.69E+02	
1, 1-Dichloroethane 1, 2-Dichloroethane		YES	0	0					0	0					2.14E+D1	1.03E+04	2.06E+03	
Trans-1, 2-Dichloro-Ethylene 1, 1-Dichloroethylene		YES	0	0					0	0			-		5.81E+03 4.17E+03	1.03E+04 4.84E+05 2.01E+08	9.68E+04 4.02E+05	
1, 1-Dichloropernylene 1, 2-Dichloropropane 1, 3-Dichloro-Propylene		123	0	0	-				0	0				-	\$.49E+00 1.23E+01	2.01E+08 6.96E+02 1.01E+03	1.39€+02	2
Dieldrin Ethylbenzene		YES	0	0	0.240	14.604	2.961	No	0	0	0.058	4.587	0.917	No	3.12E-05 1.24E+03	1.51E-02	3.02E-03	L
Methyl Bromide Methyl Chloride			0	0	-				0	0		1		÷	5.71E+02	1.02E+05 7.14E+04	2.04E+04 1.43E+04	
Methylene Chloride 1, 1, 2, 2-Tetrachloro-Ethane		YES	0	0					0	0					3.46E+02 2.30E+00	1.67E+05 1.13E+03	3.34E+04 2.25E+02	
Tetrachioro-Ethylene Toluene		YES	0	0					0	0		- :			1 92E+00 8.72E+03	9.26E+02 7.14E+05	1.85E+02 1.43E+05	2
Toxaphene Tributyltin (TBT)		YES	0	0	0.730	45.028 28.374	9.006 5.675	No No	0	0	0.0002	0.016 5.897	0.003	No No	1.62E-04		1.56E-02	
1, 1, 1-Trichloroethane 1, 1, 2-Trichloroethane		YES	0	0	0.460	20.5/4	5.075		0	0		3.687	1.179	-	9.10E+00	4.39E+03	8.79E+02	
Trichlorethylene Vinyl Chloride		YES	0	0					0	0					1.75E+01 1.42E+00	8.44E+03 6.88E+02	1.69E+03 1.38E+02	1
P-Chloro-M-Cresol 2-Chlorophenol		140	0	0		-	-		0	0				•	8.71E+01	7.13E+03	1.43E+03	
2, 4-Dichlorophenal 2, 4-Dimethylphenal			0	0			- 1	-	0	0	- :			÷	1.726+02	1.41E+04	2.82E+03	
4, 6-Dinitro-O-Cresol 2, 4-Dinitrophenol			0	0					0	0					4.98E+02 3.11E+03	4.06E+04 2.55E+05	8.15E+03 5.10E+04	
4,6-Dinitro-2-methylphenol Dioxin (2,3,7,8-TCDD)		YES YES	0	0			-		0	0				÷	1.65E+02	7.99E+04	1.60E+04	
2-Nitrophenol 4-Nitrophenol		123	0	0				÷	0	0				·	2.67E-UB	1.29E-05	2.58E-06	
Pentachiorophenoi Phenoi		YES	0	0	6,723	538,072	107.614	Na	0	0	5 693	548.185	109.637	No	1.77E+00 5.00E+05	8.54E+02 4.10E+07	1.71E+02 8.19E+06	
2, 4, 6-Trichlorophenol Acenaphthene		YES	0	0	-	- :		-	0	0		-	-	•	1.41E+00	6.83E+02	1.37E+02	
Acenaphthylene Anthracene			0	0					0	0	:				5.79E+02 2.33E+04	4.74E+04 1.91E+06	9.48E+03 3.82E+05	
Benzidine Benzo(A)Anthracene		YES	0	0	1				0	0				-	1.18E-04 1.07E-02	9.50E-03 5.14E+00	1.90E-03 1.03E+00	
Benzo(A)Pyrene Benzo(b)fluoranthene		YES	0	0				•	0	0					1.07E-02 1.07E-02	5.14E+00	1.03E+00	
Benzo(GHI)Perylene Benzo(K)Fluoranthene			0	0					0	0						8.73E-01	1.75E-01	
Bis (2-Chloroethoxy) Methane Bis (2-Chloroethyt)-Ether		YES	0	0					0	0			:		1.07E-02	1.48E+02	1.75E-01 2.97E+01	
Bis (2-Chloroiso-Propyl) Ether Bis (2-Ethylhexyl) Phthalate		YES	0	0	-		-	2	0	0		- :		-	3.78E+04	3.10E+06	6.19E+05	
4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate		163	0	0	-	- :		-	0	0			-	-	1,28E+00 1,13E+03	6.19E+02 9.23E+04	1.24E+02 1.85E+04	
2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether			0	0					0	0				-	9:24E+02		1.51E+04	
Chrysene Di-N-Butyl Phthalate		YES	0	0			-	:	0	0				-	1.07E-02 2.62E+03		1.03E+00 4.29E+04	
Di-N-Octyl Phthalate Dibenzo(A,H)Anthracene		YES	0	0					0	0					1.07E-02		1.03E+00	
1, 2-Dichlorobenzene 1, 3-Dichlorobenzene			0	0	-:	- : -	:	:	0	0		:	:	:	7.55E+02 5.62E+02	6.19E+04 4.61E+04	1.24E+04 9.21E+03	
1, 4-Dichlorobenzene 3, 3-Dichlorobenzidine		YES	0	0	:	:	:		0	0	:	:	1		1.12E+02 1.86E-02	9.21E+03 8.02E+00	1.84E+00 1.60E+00	
Diethyl Phthalate Dimethyl Phthalate			0	0	1	:	ž	:	0	0		:-	:		2.56E+04 6.48E+05	2.09E+06 5.31E+07	4.19E+05 1.06E+07	
2, 4-Dinitrotoluene 2, 6-Dinitrotoluene		YES	0	0	- :	:		:	0	0	;	-	1	:	1.96E+00	9.56E+02	1.91E-02	
1,2-Diphenylhydrazine Endosulfan (alpha)		YES	0	0	0.22	13.570	2.714	Na.	0	0	0.056	4.587	0.917	No.	1.17E-01 5.19E+01	9.59E+00 2.50E+04	1.92E+00 5.01E+03	
Endosulfan (beta) Endosulfan sulfate		YES	0	0	0.22	13.570	2.714	No -	0	0	0.058	4.587	0.917	No	5,19E+01 5,19E+01	2.50E+04 2.50E+04	5.01E+03 5.01E+03	
Endrin Endrin Aldeyhde		YES	0	0	0.000	5.305	1.061	Na	0	0	0.036	2.949	0.580	No	3.596-02 1.766-01	1.70E+01 8.51E+01	3.41E+00 1.70E+01	,
Fluoranthene Fluorene			0	0	1	:			0	0			:		8.12EH01 3.11E+03	6.65E+03 2.55E+05	1.33E+03 5.10E+04	1
Heptochlor Heptachlor Epoxide		YES	0	0	0.52	32.075 32.075	6.415 6.415	No No	0	0	0.0038	0.311	0.062 0.062	No No	4.63E-05 2.29E-05	2.24E-02 1.11E-02	4.47E-03 2.21E-03	
Hexachlorobenzene Hexachlorobutadiene		YES	0	0	:	:	-		0	0			:		1.63E-04 1.08E+01	8.10E-02 5.20E+03	1.62E-02 1.04E+03	
Hexachlorocyclohexan (alpha) Hexachlorocyclohexan (beta)		YES YES	0	0	1	:	1	:	0	0	:	:	:		2.65E-03 9.97E-03	1.38E+00 4.81E+00	2.75E-01 9.63E-01	
Hexachlorocyclohexan (gamma) HexachlorocycloPentadiene		YES	0	0	0.95	58.596	11.720	No	0	0		-	:	-	1.08E+00 6.48E+02	5.20E+02 5.28E+04	1.04E+02 1.05E+04	
Hexachloroethane Indeno(1, 2, 3-CK)Pyrene		YES	0	0	:		*	-	0	0			:	:	1.92E+00 1.07E-02	1.57E+02 5.14E+00	3.14E+01 1.03E+00	
Isophorone Naphthalene			0	0		- :	: 4	:	0	0			: [5.616+02	4.59E+04	9.19€+03	
Nitrobenzene N-Nitrosodi-N-Propylamine		YES	0	0	:	-		:	0	0		:	:	:	4.04E+02 2.95E-01	3.31E+04 1.42E+02	6.61E+03 2.85E+01	
N-Nitrosodimethylamine N-Nitrosodiphenylamine		YES	0	0	:	:	:		0	0			:	÷	1.76E+00 3.50E+00	8.50E+02 1.69E+03	1.70E+02 3.38E+02	
PCB-1016 PCB-1221		YES	0	0	:	•	-		0	0	0.014	1.147	0.229	No No	3.74E-05 3.74E-05	1.81E-02 1.81E-02	3.61E-03 3.61E-03	
PCB-1232 PCB-1242		YES	0	0	:	-	-	-	0	0	0.014	1.147	0.229	No No	3.74E-05 3.74E-05	1.81E-02 1.81E-02	3.61E-03 3.61E-03	
PCB-1248 PCB-1254		YES	0	0	:	-		:	0	0	0.014	1.147	0.229	No No	3.74E-05 3.74E-05	1.81E-02 1.81E-02	3.61E-03 3.61E-03	
PCB-1254 PCB-1260 Phenanthrene		YES	0	0		-	-		0	0	0.014	1.147	0.229	No	3.74E-05	1.81E-02	3.61E-03	
Pyrene			0	0		-	-		0	0			-	-	2.33E+03 4.09E+01	1.91E+05 3.35E+03	3.82E+04 6.71E+02	

ATTACHMENT C: MIXING ZONE ANALYSIS

om:	(Responsible Engine			ORMATION In Bra		request number Section Ind	: 3548 Justrial
	Date Submit			•	/6/20		Code 605
	Date Permit	application received by	y NPDES	program 9	/20/20	018	
Rece	iving Waterbody	Alabama F	River (Wo	odruff Lake)			
Previou	us Stream Name						
	Facility Name	International P	Paper - Pr	attville	(Name of Dischar	ger-WQ will use to
						Previous Discha	rger Name
	River Basin	Alabama		utfall Latitud		32.368056	(decimal degrees)
	*County	Autauga	Out	fall Longitud		-86.485001	(decimal degrees)
100	Permit Number	AL0003115		Permit 1			Reissuance
			-	Permit S	l		Active
	o other discharges	exist that may impac		pe of Discha	rger	IND	USTRIAL
الق	o other discharges		odel?	☐ Yes	✓ No	0	
f yes, im	pacting dischargers n	ames.		Impacting disch	argen	s permit numbers.	
		Discharge Design Flo Discharge Design Flo			GD GD		v rates given shou ested for modeling
Season		Discharge Design Flo		M	GD	be those requ	
Season	Proposed	Pischarge Design Flo	W	If not s	GD	be those requ	ested for modeling
Season	Proposed al limits requested Comments including Yes 12 Digit HUC Code	Pischarge Design Floor	✓ No	If not s ion KDP	GD eason	be those requi	sections will be used
	Proposed al limits requested Comments included Yes	Pischarge Design Floor	✓ No	If not s ion KDP	GD eason Date	be those requiral, only the summer	sections will be used s Started
	Proposed al limits requested Comments included Yes 12 Digit HUC Conducted Use Classifications its Visit Completed	Pischarge Design Floor	✓ No	If not s	GD eason Date	be those required in the summer Year File Wa	sections will be used s Started
	Proposed al limits requested Comments included Yes 12 Digit HUC Conducted Use Classifications its Visit Completed	Pischarge Design Floor	No Informat Verified	If not s	GD eason Date	be those required in the summer Year File War of MZ Response Date of Site Visit	sections will be used s Started
	Proposed al limits requested Comments included From Pres	Discharge Design Floor Pes uded No de 031502010501 Dn F&W d? Yes No rology 15594 sq m	No Informat Verified	ion KDP	Date I	be those required in the summer Year File War of MZ Response Date of Site Visit	sections will be used s Started
	Proposed al limits requested Comments included a President of Presid	Pischarge Design Floor Pes uded No de 031502010501 pn F&W d? Yes No rology 15594 sq m 4056 cfs	No Informat Verified	ion KDP	Date Use	be those required in the summer Year File War of MZ Response Date of Site Visited to Calculate	sections will be used s Started
	Proposed al limits requested Comments including Yes 12 Digit HUC Conductor Use Classification Site Visit Completed Hyd Drainage Area Stream 7Q10	Discharge Design Floor Per Yes uded No de 031502010501 F&W d? Yes No rology 15594 sq m 4056 cfs 3042 cfs	No Informat Verified	ion KDP Metho	Date Uses 75%	be those required in the summer Year File War Fi	sections will be used s Started
	Proposed al limits requested Comments included From Pres 12 Digit HUC Conducted Use Classification Site Visit Completed Hyd Drainage Area Stream 7Q10 Stream 1Q10	Discharge Design Floor Pes uded No de 031502010501 on F&W d? Yes No rology 15594 sq m 4056 cfs 3042 cfs 6313 cfs	No Informat Verified	ion KDP Metho	Date Uses 75%	be those required in the summer Year File War Fi	sections will be used s Started

Mixing Zone Analysis Summary

Page 2

WET Parameters

Acute	Sun	nmer	nic
Ambient Streamflow	cfs	Ambient Streamflow	4056 cfs
ZID Length	Meters	Mixing Zone Length	21.34 Meters
ZID IWC	%	Mixing Zone IWC	4.42 %
	Wi	nter	
Acute		Chron	nic
Ambient Streamflow	cfs	Ambient Streamflow	cfs
ZID Length	Meters	Mixing Zone Length	21.34 Meters
ZID IWC	%	Mixing Zone IWC	%
Ambient Streamflow Mixing Zone Length	cfs Meters	Ambient Streamflow Mixing Zone Length	cfs Meters
Max. Effluent Temp	°c Pathogen Pa	Max. Effluent Temp	°C
Summer		Winter	
Ambient Streamflow	cfs	Ambient Streamflow	cfs
ZID Length	Meters	ZID Length	Meters
Max. Effluent Fecal Conc	Cols/100 mls	Max. Effluent Fecal Conc	Cols/100 mls
Max. Effluent E. coli Conc	Cols/100 mls	Max. Effluent E. coli Conc	Cols/100 mls
Monthly Average Effluent E. coli Conc	Cols/100 mls	Monthly Average Effluent E. coli Conc	Cols/100 mls
Max. Effluent Enterococci Conc (for coastal waters)	Cols/100 mls	Max. Effluent Enterococci Conc (for coastal waters)	Cols/100 mls

Comments and/or Notations LANCE R. LEFLEUR DIRECTOR



KAY IVEY GOVERNOR

Alabama Department of Environmental Management adem.alabama.gov

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June 20, 2019

MEMORANDUM

TO:

Alex Chavers, NPDES Industrial Section

FROM:

Keosha Powell, Water Quality Branch

RE:

CORMIX Review for International Paper-Prattville (NPDES AL0003115)

The Water Quality Branch has reviewed the CORMIX Dilution Modeling Summary report for NPDES Permit No. AL0003115 submitted by Jacobs Engineering Group, Inc. (Jacobs) on March 7, 2019. International Paper (IP) — Prattville discharges to the Alabama River (Woodruff Lake) with an existing effluent long-term average (LTA) flow rate of 32.4 MGD.

Model inputs used in ADEM's review were equivalent to those provided by Jacobs with the exception of the 7Q10 flow rate, which was determined to be 4056 cfs based on low-flow data obtained from reference gauge USGS 02420000. Employing the LTA flow rate and the 7Q10 value, a limiting dilution of 82:1 was determined. Therefore, based upon the established ADEM protocol for whole effluent toxicity determination, chronic toxicity using the 7Q10 flow applicable at the edge of the mixing zone was employed for this review. The applicable distance to the edge of the mixing zone is 21.34 meters, which is based upon the criterion stating the mixing zone area cannot exceed one-quarter of the stream cross-sectional area. An IWC of 4.42% was predicted for the LTA flow rate of 32.4 MGD.

IP-Prattville also requested changes to its stream monitoring requirements, which can be viewed in the attached analysis provided by Jacobs. The Water Quality Branch has reviewed those requests and has no objection to the proposed changes to the stream monitoring requirements.

KDP:kdp

•			
	~	Prattville CORMIX Review Rat	ionala
	International Paper-	Prattylle CORIVITY Review Rat	lonale
	1		
		•	

Facility: International Paper-Prattville Permit #: AL0003115

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Receiving Waterbody: Alabama River (Woodruff Lake)

County: Autauga
Date Completed: 6/20/19
Performed by: KDP-Water Quality

Permit #: AL0003115

CORMIX Review Rationale: International Paper- Prattville

I. <u>BACKGROUND</u>

Jacobs submitted a CORMIX modeling report to be reviewed by the Water Quality Branch on March 7, 2019 for International Paper (IP) - Prattville. The facility has an existing long-term average flow rate of 32.4 MGD (50.12 cfs). Model inputs for discharge and ambient parameters developed by Jacobs were utilized in the completion of this review with the exception of the 7Q10 flow. The facility utilizes three parallel diffusers to discharge treated wastewater into the Alabama River. For the purposes of this analysis, the three diffusers were designed as one 140 foot diffuser with a total of 48 ports.

II. AMBIENT CONDITIONS

The use classification for the Alabama River (Woodruff Lake) at the point of discharge is *Fish* and Wildlife (F&W). Based on the information submitted by Jacobs, the Alabama River has a width, local depth, and average depth of 213 m, 13.2 m, and 13.2 m, respectively, at the point of discharge. Low- flow data obtained from the reference gauge (USGS 02420000) gave a 7Q10 value of 4056 cfs and a 1Q10 value of 3042 cfs at the discharge location. Utilizing the long-term average (LTA) flow of 32.4 MGD and the 7Q10 value, a limiting dilution of 82:1 was determined. Therefore, based upon the established ADEM protocol for Whole Effluent Toxicity (WET) determination, chronic toxicity using the 7Q10 flow applicable at the edge of the mixing zone will be employed for this review.

III. DISCHARGE CONFIGURATION

The IP- Prattville plant has three existing outfall diffusers that are parallel to each other. These diffusers, which are co-flowing, discharge treated wastewater to the Alabama River. The last fifty feet of each diffuser pipeline contains 16 ports comprised of eight 6-inch diameter openings and eight 7.5-inch square openings. The openings are oriented at a 45 degree angle downstream and are perpendicular to the pipeline.

Receiving Waterbody: Alabama River (Woodruff Lake)

County: Autauga

Date Completed: 6/20/19

Permit #: AL0003115

IV. MODEL EVALUATION

A submerged multiport diffuser is modeled with CORMIX2. In the modeling, the plume is positively buoyant and CORMIX2 predicts the plume's centerline to rise towards the surface. The CORMIX2 model also predicted an IWC of 4.42%, which is based on the mixing zone criterion stating the area of the mixing zone cannot exceed 25% of the stream cross-sectional area. According to WET protocol, if the limiting dilution is less than 100:1, chronic toxicity is applicable at the edge of the mixing zone. The mixing zone is the second of two allowable zones, the first being the zone of initial dilution. Water Quality Standards must be met at the edge of the mixing zone. ADEM's mixing zones have the following restrictions:

- 1. Mixing zone width cannot exceed half the stream width.
- 2. Mixing zone area cannot exceed one-quarter of the stream cross-sectional area.
- 3. Mixing zone length cannot exceed five times the width of the mixing zone.
- 4. Mixing zone cannot encompass drinking water intakes.
- The total area of all mixing zones in a lake may not encompass more than 10% of the lake's surface area.
- 6. The radius of the mixing zone in a reservoir/lake is 750 feet.

V. ADEM MIXING ZONE CRITERIA

General Information

Facility:	International Paper-Prattvill	
Permit #:	AL0003115	
Current Outfall #:	001	
Receiving Waterbody:	Alabama River (Woodruff Lake)	
Receiving Waterbody: Discharger Latitude:	Alabama River (Woodruff Lake) 32.368056	

Ambient Conditions

Receiving Waterbody 7Q10:	4056	cfs	115	cms
Receiving Waterbody 1Q10:	3042	cfs	86	cms

Width of Waterbody @ discharge point:	213	m	700 ft

Receiving Waterbody: Alabama River (Woodruff Lake)

County: Autauga

Date Completed: 6/20/19

Permit #: AL0003115

Depth of Waterbody @ discharge point:

Average depth @ discharge point:

13.2	m
13.2	m

43.3 ft 43.3 ft

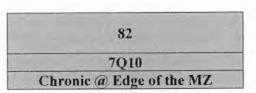
Discharge Conditions:

Discharge flow rate:

32.4 MGD

WET Protocol

Limiting Dilution $S_{lim} = [(Qw + 7Q10)/Qw]$ Applicable Flow to Use in Model
Applicable Toxicity



Mixing Zone Criteria

- 1. Mixing Zone width cannot exceed more than $\frac{1}{2}$ the stream width (BS) 0.5 *Bs = 0.5 *213m = 106.5 m
- 2. Mixing Zone area cannot exceed one-quarter of the stream cross-sectional area $0.25*Bs*Ha = 0.25*213m*13.2m = 703 m^2$
- 3. Mixing Zone length cannot exceed 5 times the width of the mixing zone

$$5 * MZ_w = 5 * 106.5m = 533 m$$

4. Mixing zone may not encompass drinking water intakes

N/A

5. The total area of all mixing zone in a lake may not encompass more than 10% of the lake's surface area.

Total area MZ < 10% lake's surface area (12,510 acres) 0.1(12,510) = 1251 acres = 5,062,617 m²

6. The radius of the mixing zone in a reservoir/lake is 750 feet.

229 m

Receiving Waterbody: Alabama River (Woodruff Lake)

County: Autauga

Date Completed: 6/20/19

Permit #: AL0003115

APPENDICES

AREA MAP I.

Figure 1. IP- Prattville Outfall Location Map (Aerial Overlay)

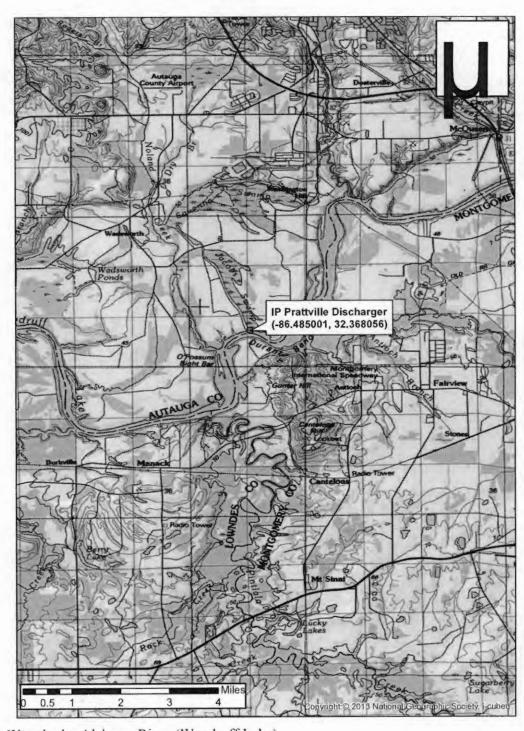


Receiving Waterbody: Alabama River (Woodruff Lake) County: Autauga

Date Completed: 6/20/19

Permit #: AL0003115

Figure 2. IP- Prattville Outfall Location (Topographic Layer)



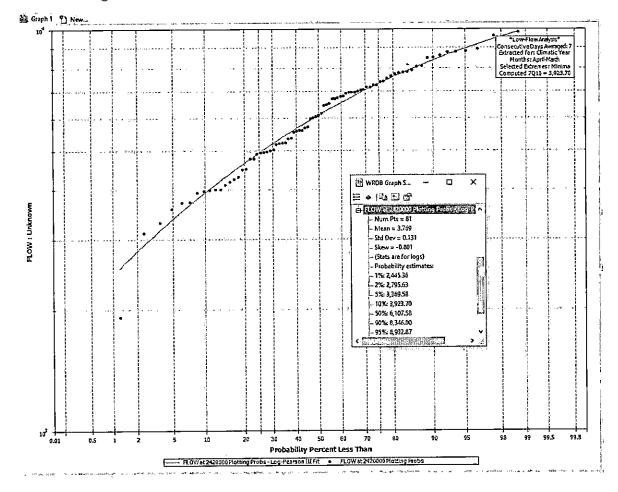
Receiving Waterbody: Alabama River (Woodruff Lake)

County: Autauga

Date Completed: 6/20/19

Permit #: AL0003115

Figure 3. Calculated low-flows from WRDB 6.1 at the reference gauge (0242000)



Alabama River at IP-Prattville Outfall:

Using USGS Station 02420000 (Alabama River near Montgomery, AL)

$$7Q10 = 15594 \text{ mi}^2 * \frac{3923.7 \text{ cfs}}{15087 \text{ mi}^2} = 4056 \text{ cfs}$$

$$7Q2 = 15594 \text{ mi}^2 * \frac{6107.58 \text{ cfs}}{15087 \text{ mi}^2} = 6313 \text{ cfs}$$

$$1Q10 = 0.75 * 4056 \text{ cfs} = 3042 \text{ cfs}$$

Receiving Waterbody: Alabama River (Woodruff Lake)

County: Autauga

Date Completed: 6/20/19

Chavers, Alexander

From:

Chavers, Alexander

Sent:

Wednesday, February 5, 2020 8:41 AM

To:

Moody, Kelly (Houston)

Subject:

RE: IP Prattville Comments on Draft Permit/Rationale/Limits Calculations, RE: IP Prattville - review

Kelly,

I have revised the draft and it is currently being reviewed. I will forward you a copy once it is signed and placed in the mail.

Below is a summary response to the comments provided on the draft permit for International Paper – Prattville Mill. A summary of the changes to the draft permit and/or rationale as a result of these comments can be found in the Revision section of the rationale. This response will be included with the final draft permit.

- 1. The DSN001 description in the permit and rationale, the DSN001 discussion and the applicable subparts was modified to include the infrequent/intermittent discharge of runoff from the wet yard area to the #3 Basin.
- 2. Permit limits that were based on previous permit limitations were corrected in the permit and rationale to reflect existing limits (includes Pentachlorophenol daily maximum, BOD5 daily max, and TSS daily max and monthly average).
- 3. Ammonia monitoring was not removed from DSN001 based on the request. Monitoring for nutrients during the growing season (April to October) is required for all majors to ensure the Department has the loading information it may need to develop future permit limitations, if necessary.
- 4. Part IV.A Stormwater BMP Requirements
 - a. DSN001 The applicability was not removed from DSN001. While stormwater in this area does drain through a treatment system, the drainage area is still covered under BMP requirements, which includes operating in a way that prevents unnecessary exposure to stormwater.
 - b. DSN002 The applicability was removed from D5N002 as this outfall does not discharge stormwater.
- 5. Part IV.B Stormwater Measurement and Sampling Requirements
 - a. These requirements were removed from outfalls DSN001 and DSN002; however, the requirement will remain for DSN003 as it discharges stormwater (along with other various non-process wastewaters) and a discharge could occur due to a rain event.
- 6. The time period in which the equation and river monitoring is required was modified to be June through October throughout the rationale and permit.
- 7. The toxicity testing requirements were modified to require definitive testing with the dilutions previously discussed.
- 8. Duplicate paragraph deleted at the end of the toxicity testing requirements.
- 9. Attachment A
 - a. The production basis for PM1 OCC was maintained at 312 ADT/day. When determining a reasonable measure of production, we are looking at the OCC production as a whole, which includes both PM1 and PM2 productions, and should use the same time basis for each. The use of 312 ADT/day at PM1 and 352.3 ADT/day at PM2 (based on the Last 12 Months Highest Monthly Average) is more recent and sets a higher production basis than using the values based on the "Highest Year of Last 5 Monthly Average" (355.4 ADT/day at PM1 and 222 ADT/day at PM2).
 - b. The "Final Limitations" tab of the workbook was not used in the final permit and was deleted from the
 - c. The required pH Range of 6.0 to 9.0 S.U. was corrected in the appropriate tab of the workbook.

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



From: Moody, Kelly (Houston) <Kelly.Moody@advisian.com>

Sent: Thursday, December 5, 2019 11:01 AM

To: Chavers, Alexander <adchavers@adem.alabama.gov>

Cc: Jerry Horne < Jerry. Horne@ipaper.com>; Billy J Scott < Billy. Scott@ipaper.com>; Brett Atchison

<Brett.Atchison@ipaper.com>; Tony D. Owens <Tony.Owens@ipaper.com>; Martin, J.P./MGM <J.P.Martin@jacobs.com>;

Gerow, Eleanor/PNS <eleanor.gerow@jacobs.com>

Subject: IP Prattville Comments on Draft Permit/Rationale/Limits Calculations, RE: IP Prattville - review

Alex,

IP appreciates the opportunity to review the October 29 draft permit, rationale, and limit calculations for the Prattville mill. We have completed our review and are providing the attached comments for ADEM's consideration. The files attached include:

- The 1st file is a 2-page summary of the comments
- The 2nd and 3rd files are the comments reflected in the permit and the rationale in track changes mode
- The last file is the limits workbook (Attachment A to the permit rationale) that you provided for our review. There are 2 comments captured within the workbook re: the correct production basis for PM1 OCC and modifying the Final Limits tab showing current limits as maintained per ABS. There is also 1 comment on the Comment Summary related to the pH range noted in the workbook.

Please let us know if you have any questions regarding these comments, or require any additional information. We also would appreciate review of the revised draft based on these comments or other changes ADEM may make before the permit is issued for public notice.

Thanks!

Kelly Moody

Senior Project Manager

P +3344620417

E kelly.moody@advisian.com

www.advisian.com

Advisian

From: Moody, Kelly (Houston)

Sent: Wednesday, November 20, 2019 11:06 AM

To: Chavers, Alexander <adchavers@adem.alabama.gov>

Cc: Jerry Horne < Jerry. Horne@ipaper.com >; Billy J Scott < Billy. Scott@ipaper.com >; Brett Atchison

<<u>Brett.Atchison@ipaper.com</u>>; Tony D. Owens <<u>Tony.Owens@ipaper.com</u>>; Martin, J.P./MGM <J.P.Martin@jacobs.com>

Subject: IP Prattville - review

Alex – thanks for sending the workbook for our review of the production basis and calculations. Per my brief call with you yesterday, we understand that IP may have additional time to review the draft permit dated October 29, 2019, and the workbook, and will submit comments to ADEM by Friday, December 6.

Let us know if you have any questions in the interim.

Thanks!

Kelly Moody
Senior Project Manager
P +13129648637
E kelly.moody@advisian.com
www.advisian.com

From: Chavers, Alexander <adchavers@adem.alabama.gov>

Sent: Tuesday, November 19, 2019 2:36 PM

To: Moody, Kelly (Houston) < Kelly. Moody@advisian.com>

Subject: FW: Attachment A[External Sender]

From: Chavers, Alexander

Sent: Monday, November 18, 2019 11:21 AM

To: Moody, Kelly/MGM < Kelly.Moody@jacobs.com >

Subject: Attachment A

Hopefully this will help.

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



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Chavers, Alexander

From:

Moody, Kelly (Houston) < Kelly. Moody@advisian.com>

Sent:

Thursday, December 5, 2019 11:01 AM

To:

Chavers, Alexander

Cc: Subject: Jerry Horne; Billy J Scott; Brett Atchison; Tony D. Owens; Martin, J.P./MGM; Gerow, Eleanor/PNS IP Prattville Comments on Draft Permit/Rationale/Limits Calculations, RE: IP Prattville - review IP Prattville AL0003115_Draft Permit_Comments Summary_05Dec2019.docx; IP Prattville Draft

Attachments:

Permit_Comments_05Dec2019.doc; IP Prattville Rationale_Comments_05Dec2019.doc; Permit

Calculations (003).xlsx

Alex,

IP appreciates the opportunity to review the October 29 draft permit, rationale, and limit calculations for the Prattville mill. We have completed our review and are providing the attached comments for ADEM's consideration. The files attached include:

- The 1st file is a 2-page summary of the comments
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- The last file is the limits workbook (Attachment A to the permit rationale) that you provided for our review. There are 2 comments captured within the workbook re: the correct production basis for PM1 OCC and modifying the Final Limits tab showing current limits as maintained per ABS. There is also 1 comment on the Comment Summary related to the pH range noted in the workbook.

Please let us know if you have any questions regarding these comments, or require any additional information. We also would appreciate review of the revised draft based on these comments or other changes ADEM may make before the permit is issued for public notice.

Thanks!

Kelly Moody

Senior Project Manager

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E kelly.moody@advisian.com

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<Brett.Atchison@ipaper.com>; Tony D. Owens <Tony.Owens@ipaper.com>; Martin, J.P./MGM <J.P.Martin@jacobs.com>

Subject: IP Prattville - review

Alex – thanks for sending the workbook for our review of the production basis and calculations. Per my brief call with you yesterday, we understand that IP may have additional time to review the draft permit dated October 29, 2019, and the workbook, and will submit comments to ADEM by **Friday, December 6**.

Let us know if you have any questions in the interim.

Thanks!

Kelly Moody Senior Project Manager P +13129648637 E kelly.moody@advisian.com

www.advisian.com

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Sent: Tuesday, November 19, 2019 2:36 PM

To: Moody, Kelly (Houston) < Kelly. Moody@advisian.com>

Subject: FW: Attachment A[External Sender]

From: Chavers, Alexander

Sent: Monday, November 18, 2019 11:21 AM

To: Moody, Kelly/MGM < Kelly.Moody@jacobs.com >

Subject: Attachment A

Hopefully this will help.

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



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Review Comments: International Paper, Prattville, Draft NPDES Permit AL0003115 (dated October 29, 2019)

- IP requests that the permit and rationale be modified to include the potential infrequent/intermittent discharge of runoff from the wet yard area to # 3 Basin, which ultimately discharges through DSN001.
 With this change, it is noted that the facility is also subject to 40 CFR 429, Subpart I, but no changes to the permit are needed other than those annotated on the following attached pages of the permit and rationale:
 - Pages 1-4 of 29, Part I.A DSN001 description
 - Permit Rationale, DSN001 description on the first page and in the DSN001 discussion
 - Associated with this change, please add 40 CFR 429, Subpart I to the Industrial Category on the first page of the Permit Rationale
- IP understands that ADEM considers that anti-backsliding requirements apply to this outfall; based on this position, ADEM will modify the DSN001 TSS limits to reflect the existing limits.
 - Page 1 of 29 Part I.A. and Permit Rationale limits table DSN0011 TSS Monthly Average Limit should be 37,188 lbs/day; and Daily Maximum limit - 74,376 lbs/day
- IP requests deletion of Ammonia monitoring from DSN001. The current permit does not require
 monitoring for ammonia; the concentration reported in the application is 0.28 mg/L and there are no
 water quality issues anticipated with discharge of ammonia through DSN001.
 - Page 1 of 29, Part I.A and Permit Rationale discussion of DSN001, BPJ, Nutrients delete ammonia from the limits page and from the discussion in the rationale.
- 4. IP requests clarification that the BMP Plan referenced in Part IV.A is not applicable to DSN001 (consistent with the current permit), and removal of reference to the BMP plan for DSN002 since there is no industrial activity or stormwater discharge associated with DSN002.
 - Pages 1 4 of 29 delete footnote referencing Part IV.A for DSN001
 - Page 5 of 20 delete footnote referencing Part IV.A for DSN002
 - Page 23 of 29, Part IV.A.1 Include the statement (similar to the current permit) clarifying that the BMP is not applicable to areas where releases to stormwater discharge to DSN001.
- 5. IP requests deletion of Part IV.B Stormwater requirements as not relevant to the IP discharge.
 - Pages 2, 5, 6 of 29 delete footnotes referencing Part IV.B.
 - Page 24 of 29 delete Part IV.B.
- 6. IP requests that river monitoring requirements and the governing BOD equation period be specified for June 1 through September 30 as supported by the stream monitoring data review and to provide consistency in the monitoring period. The following attached pages of the permit and the rationale are annotated to reflect this change:
 - Page 2 of 29, DSN001 Certification River Monitoring
 - Page 29 of 29, Part IV.E. opening paragraphs
 - Page 29 of 20, Part IV.F Additional requirements regarding BOD equation
 - Permit Rationale DSN001, WQBEL, BOD discussion and Stream Monitoring Requirements discussion (note that reference to the permit section for river monitoring details is annotated for correction in the rationale).

Review Comments: International Paper, Prattville -Draft NPDES Permit No. AL 0003115 (dated October 29, 2019)

- 7. IP requests that toxicity testing be modified to specify definitive testing (in lieu of screening). A change in testing will require the test requirements on Page 25 of 29, Part IV.D.1.a. to be modified. In addition, IP requests that Part IV.D.1.d be modified to allow 14 days (in lieu of 1 calendar week) for retesting toxicity following a noncompliance.
- 8. IP has annotated a duplicate paragraph Part IV.D.2.g. (on Page 28 of 219) for deletion.
- 9. IP requests that Attachment A to the rationale (permit calculations) be corrected for the following:
 - PM1 OCC production basis should be 355.4 ADT/d (not 312 ADT/d) refer to Table 3-1 of the application for renewal. [See comment on Renewal Application tab in the workbook.]
 - Update final limits in the workbook to match the current limits to reflect ADEM's position of anti-backsliding. [See comment on Final Limitations tab of the workbook.]
 - Note also that on the Renewal Application tab there is reference to pH within the range of 5.0 to 9.0 S.U.; however, the permitted pH range for IP Prattville is 6.0 to 9.0 S.U.



Alabama Department of Environmental Management adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 Post Office Box 301463

Montgomery, Alabama 36130-1463

(334) 271-7700 FAX (334) 271-7950

FACT SHEET

APPLICATION FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT TO DISCHARGE POLLUTANTS TO WATERS OF THE STATE OF ALABAMA

Date: June 26, 2019 Prepared By: Alex Chavers

NPDES Permit No. AL0003115

1. Name and Address of Applicant:

International Paper 100 Jensen Road Prattville, AL 36067

2. Name and Address of Facility:

International Paper - Prattville Mill 100 Jensen Road Prattville, Alabama 36067

3. Description of Applicant's Type of Facility and/or Activity Generating the Discharge:

Individual Permit - Standard

4. Applicant's Receiving Waters

Receiving Waters
Alabama River
Autauga Creek

Classification
Tier 1, F&W
F&W

For the Outfall latitude and longitude see the permit application.

5. Permit Conditions:

See attached Rationale and Draft Permit.

6. PROCEDURES FOR THE FORMULATION OF FINAL DETERMINATIONS

a. Comment Period

The Alabama Department of Environmental Management proposes to issue this NPDES permit subject to the limitations and special conditions outlined above. This determination is tentative.

Interested persons are invited to submit written comments on the draft permit to the following address:



Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

All comments received prior to the closure of the public notice period (see public notice for date) will be considered in the formulation of the final determination with regard to this permit.

b. Public Hearing

A written request for a public hearing may be filed within the public notice period and must state the nature of the issues proposed to be raised in the hearing. A request for a hearing should be filed with the Department at the following address:

Russell A. Kelly, Chief
Permits and Services Division
Alabama Department of Environmental Management
1400 Coliseum Blvd
(Mailing Address: Post Office Box 301463; Zip 36130-1463)
Montgomery, Alabama 36110-2059
(334) 271-7714

The Director shall hold a public hearing whenever it is found, on the basis of hearing requests, that there exists a significant degree of public interest in a permit application or draft permit. The Director may hold a public hearing whenever such a hearing might clarify one or more issues involved in the permit decision. Public notice of such a hearing will be made in accordance with ADEM Admin. Code r. 335-6-6-21.

c. Issuance of the Permit

All comments received during the public comment period shall be considered in making the final permit decision. At the time that any final permit decision is issued, the Department shall prepare a response to comments in accordance with ADEM Admin. Code r. 335-6-6-.21. The permit record, including the response to comments, will be available to the public via the eFile System (http://app.adem.alabama.gov/eFile/) or an appointment to review the record may be made by writing the Permits and Services Division at the above address.

Unless a request for a stay of a permit or permit provision is granted by the Environmental Management Commission, the proposed permit contained in the Director's determination shall be issued and effective, and such issuance will be the final administrative action of the Alabama Department of Environmental Management.

d. Appeal Procedures

As allowed under ADEM Admin. Code chap. 335-2-1, any person aggrieved by the Department's final administrative action may file a request for hearing to contest such action. Such requests should be received by the Environmental Management Commission within thirty days of issuance of the permit. Requests should be filed with the Commission at the following address:

Alabama Environmental Management Commission 1400 Coliseum Blvd (Mailing Address: Post Office Box 301463; Zip 36130-1463) Montgomery, Alabama 36110-2059

All requests must be in writing and shall contain the information provided in ADEM Admin. Code r. 335-2-1-.04.



International Paper, Prattville Mill Prattville, Alabama

Application for Renewal of NPDES Permit No. AL0003115

Prepared for

Alabama Department of Environmental Management

September 2018



4121 Carmichael Road Suite 400 Montgomery, AL 36106



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Acronyms and Abbreviations

°C degrees Celsius

ADEM Alabama Department of Environmental Management

ADT/d air dry tons per day
ADT/y air dry tons per year

BOD₅ 5-day biochemical oxygen demand ADMI American Dye Manufacturer's Institute BOD₅ 5-day biochemical oxygen demand

C composite sample

CFR Code of Federal Regulations
COD chemical oxygen demand

DO dissolved oxygen

ELG Effluent Limitation Guidelines

EPA U.S. Environmental Protection Agency

G grab sample

GC/MS gas chromatography/mass spectrometry

IP International Paper Company

lb/day pounds per day mg/L milligrams per liter

NCASI National Council of the Paper Industry for Air and Stream Improvement

NH3-N ammonia as nitrogen

NO3 nitrate

NPDES National Pollutant Discharge Elimination System

OCC old corrugated containers
PCP pentachlorophenol
PCB polychlorinated biphenyl

PM paper machine

Q_R flow rate

TCP trichlorophenol

TSS total suspended solids

s.u. standard units

SM Standard Methods for the Examination of Water and Wastewater

SVOC semivolatile organic compound

TKN total Kjeldahl nitrogen
TOC total organic carbon
TON total organic nitrogen
VOC volatile organic compound

SECTION 1

Introduction

International Paper (IP), Prattville Mill, located in Prattville, Alabama, is herein submitting an application for renewal of the Prattville Mill National Pollutant Discharge Elimination System (NPDES) Permit No. AL0003115.

1.1 Description of Mill Operations

The IP Prattville Mill is located at 100 Jensen Road in Prattville, Alabama. The mill is subject to the Effluent Limitation Guidelines (ELGs) in 40 Code of Federal Regulations (CFR) 430 - Pulp, Paper, and Paperboard Point Source Category, and is authorized currently to discharge process water, nonprocess water, and stormwater via three outfalls to the Alabama River and Autauga Creek.

The mill utilizes the kraft (sulfate) process to produce pulp, turpentine, and wood fat soaps from wood chips. Pulp also is produced from post-consumer waste paper. The pulp is converted to linerboard using two paper machines. Crude tall oil is produced by acidulation of wood fat soaps (black liquor skimmings) and is shipped offsite. Crude sulfate turpentine is condensed, recovered, and shipped offsite.

1.2 Application for NPDES Permit Renewal

This NPDES permit application summarizes the discharge locations, outfall sampling methods and results, and derivation and discussion of requested permit limitations. The IP Prattville Mill's current NPDES permit expires on March 31, 2019. The NPDES permit renewal application is due October 2, 2018, 180 days prior to the current permit expiring. The application package provides the following:

- Description of Outfalls and Sampling Methodology (Section 2)
- Derivation of Permit Limitations (Section 3)
- Requested Permit Limits and Monitoring (Section 4)
- Site Maps and Completed NPDES Application Forms
 - Appendix A ADEM Form 187
 - Appendix B EPA Form 1
 - Appendix C EPA Form 2C
 - Appendix D EPA Form 2E
 - Appendix E EPA Form 2F
 - Appendix F Application Figures

SECTION 2

Discharge Sampling Methodology

2.1 Description of Outfalls

The IP Prattville Mill has three permitted outfalls, which were sampled as outlined in Table 2-1 for the application for permit renewal.

Table 2-1. NPDES Outfall Descriptions and Required Sampling

Application for NPDES Permit Renewol, IP Prattville Mill, Prattville, Alabama

Outfall	Receiving Water	Description of Sources	Required Sampling/Comments
DSN001	Alabama River	Process water; landfill leachate; stormwater runoff	Sampled on 07/24/2018 in accordance with EPA Form 2C
DSN002	Alabama River	Non-process water (non-contact turbine condenser cooling water)	Sampled on 07/24/2018 in accordance with EPA Form 2E
DSN003	Autauga Creek	Non-process water (non-contact fire pump pressure relief water, mill supply pump seal water, fire suppression system water); stormwater runoff	Sampled on 07/24/2018 in accordance with EPA Form 2E and on 07/31/2018 in accordance with EPA Form 2F

EPA = U.S. Environmental Protection Agency

2.2 Outfall Sample Methodology

Tables 2-2, 2-3, and 2-4 list the parameters and analytical methods that were used in sampling the outfalls. Samples were collected by Tuscaloosa Testing Laboratories staff, and analysis was performed by Test America Laboratories of Pensacola, Florida. Analytical data from the recent application sampling effort are presented for each outfall on Forms 2C, 2E, and 2F in Appendixes C, D, and E, respectively.

Table 2-2. Process Water Outfall Sampling Parameters for DSN001

Application for NPDES Permit Renewal, IP Prattville Mill, Prattville, Alabama

Sample Type Method **Preservative Holding Time** EPA Form 2C, Part V-A-Requirements pН G EPA150.2/SM4500H+B None Field Measurement Analyze immediately (15 minutes) Field Measurement Temperature G SM2S50B None Analyze immediately (15 minutes) BOD₅ G 5M5210B <u><</u>6°C 48 hours SM5220 C or D Sulfuric Acid to pH <2, <6°C COD G 28 days G SM2S40D ≤6°C 7 days TSS Sulfuric Acid to pH<2, ≤6°C EPA350.1/SM4500NH3 28 days NH3-N G Hydrochloric Acid or Sulfuric 28 days TOC G SM5310 B, C, or D Acid to pH<2, ≤6°C

Table 2-2. Process Water Outfall Sampling Parameters for DSN001
Application for NPDES Permit Renewal, IP Prattville Mill, Prattville, Alabama

Parameter		Sample Type Method		Preservative	Holding Time	
EPA Form 2C, Part	V-B–Requi	rements				
Color, ADMI		G	SM2120F/ NCASI 253	<u><</u> 6 ℃	48 hours	
Fecal Coliform		G	SM9222D	<u>≤</u> 6 °C	6 hours	
Fluoride		G	EPA300.0	Sulfuric Acid to pH<2, ≤6°C	28 days	
Nitrate-Nitrite		G	EPA300.0/353.2/ SM4500-NO3	Sulfuric Acid to pH<2, ≤6°C	28 days	
TON		TON	will be calculated by subtra	acting the NH3 results (from Par	t V-A) from TKN.	
TKN		G	EPA351.2/SM4500NH3	Sulfuric Acid to pH<2, ≤6°C	28 days	
Oil and Grease		G	EPA1664A	Sulfuric Acid to pH <2, ≤6°C	28 days	
Total Phosphorus (as P)	G	EPA36S.1/SM4S00P	Sulfuric Acid to pH <2, ≤6°C	28 days	
Ť	pha Total Beta, Total	G	EPA900.0	Nitric Acid to pH <2	6 months	
Rad	ium, Total	G	EPA903.0	Nitric Acid to pH <2	6 months	
Radium	226, Total	G	EPA903.1	Nitric Acid to pH <2	6 months	
Sulfate		G	EPA 300.0/ 37S.2/ SM4S00SO4	<u><</u> 6 °C	28 days	
Sulfide		G	SM4S00-S	Zn Acetate to pH>9, <u><</u> 6°C	7 days	
Sülfite		G	SM4S00SO3	<u><</u> 6 ℃	Field Measurement Analyze immediately (15 minutes)	
Surfactants		G	SM5S40 C	<u><</u> 6 °C	48 hours	
Aluminum, Total		G	EPA200.8	Nitric Acid to pH <2	180 days	
Barium, Total		G	EPA200.8	Nitric Acid to pH <2	180 days	
Boron, Total		G	EPA200.8	Nitric Acid to pH <2	180 days	
Cobalt, total		G	EPA200.8	Nitric Acid to pH <2	180 days	
Iron, Total		G	EPA200.8	Nitric Acid to pH <2	180 days	
Magnesium, Total		G	EPA200.8	Nitric Acid to pH <2	180 days	
Molybdenum		G	EPA200.8	Nitric Acid to pH <2	180 days	
Manganese, Total		G	EPA200.8	Nitric Acid to pH <2	180 days	
T in, Total		G	EPA200.8	Nitric Acid to pH <2	180 days	
Titanium, Total		G	EPA200.8	Nitric Acid to pH <2	180 days	

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Table 2-2. Process Water Outfall Sampling Parameters for DSN001

Application for NPDES Permit Renewal, IP Prattville Mill, Prattville, Alabama

Parameter	Sample Type Method		Preservative	Holding Time	
EPA Form 2C, Part V-C-Requ	irements				
Antimony, Total	G	EPA200.8	Nitric Acid to pH<2	180 days	
Arsenic, Total	G	EPA200.8/ SM3113B	Nitric Acid to pH<2	180 days	
Beryllium, Total	G	EPA200.8	Nitric Acid to pH<2	180 days	
Cadmium, Total	G	EPA200.8	Nitric Acid to pH<2	180 days	
Chromium, Total	G	EPA200.8	Nitric Acid to pH<2	180 days	
Copper, Total	G	EPA200.8	Nitric Acid to pH<2	180 days	
Lead, Total	G	EPA200.8/ SM3113B	Nitric Acid to pH<2	180 days	
Mercury, Total ¹	G	EPA1631E	5 mL/L 12N Hydrochloric acid	90 days	
Nickel, Total	G	EPA200.8	Nitric Acid to pH<2	180 days	
Selenium, Total	G	EPA200.8/ SM3113B	Nitric Acid to pH<2	180 days	
Silver, Total	G	EPA200.8	Nitric Acid to pH<2	180 days	
Thallium, Total	G	EPA200.8/SM3113B	Nitric Acid to pH<2	180 days	
Cyanide, Total	G	EPA335.4/ SM4500-CN C, D, or E	Sodium Hydroxide to pH>12, ≤6°C	14 days	
Zinc, Total	G	EPA200.8	Nitric Acid to pH<2	180 days	
Phenois, Total	G	EPA420.1/	Phosphoric Acid to pH<2,	24 hours	
		EPA420.4/SM5S30 B or D	copper sulfate, <u><</u> 6 °C Sulfuric Acid to pH<2, <u><</u> 6°C	28 days	
2,3,7,8-Tetrachlorodibenzo- P-Dioxin	G	EPA1613B	<u><</u> 6°C	1 year	
GC/MS Fraction, VOC	G	EPA624	Hydrochloric Acid to pH<2, ≤6°C	14 days	
SVOC, Acid	G	EPA625	≤6°C	7 days to extract, 40 days to analyze	
SVOC, Base/Neutral	G	EPA625	≤6°C	7 days to extract, 40 days to analyze	
PCB/Pesticides	G	EPA608	<u><</u> 6°C	1 year until extraction, 1 year after extraction	

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Table 2-2. Process Water Outfall Sampling Parameters for DSN001

Application for NPDES Permit Renewal, IP Prattville Mill, Prattville, Alabama

Parameter	Sample Type Method	Preservative	Holding Time

Notes:

¹ EPA method 1631E requires the use of EPA Method 1669 Sampling Ambient Water for Trace Metals at EPA Water Quality Criteria Levels (July 1996) for the collection of low level mercury samples using fluoropolymer bottles with fluoropolymer-lined caps preserved within 48 hours of sample collection.

°C = degrees Celsius

ADMI = American Dye Manufacturer's Institute

BOD₅ = 5-day biochemical oxygen demand

COD = chemical oxygen demand

G = grab sample

GC/MS = gas chromatography/mass spectrometry

NCASI = National Council of the Paper Industry for Air and Stream Improvement

NH3-N = ammonia as nitrogen

NO3 = nitrate

PCB = polychlorinated biphenyl

SM = Standard Methods for the Examination of Water and Wastewater

SVOC = semivolatile organic compound

TKN = total Kjeldahl nitrogen

TOC = total organic carbon

TON = total organic nitrogen

TSS = total suspended solids

VOC = volatile organic compound

Table 2-3. Non-process Wastewater Outfall Sampling Parameters for DSN002 and DSN003

Application for NPDES Permit Renewal, IP Prattville Mill, Prattville, Alabama

Parameter	Sample Type	Method	Preservative	Holding Time
рН	G	EPA150.2/ SM4500H+B	None	Field Measurement Analyze immediately (15 minutes)
BODs	С	SM5210B	<u><</u> 6°C	48 hours
T 5S	С	SM2540D	<u><</u> 6°C	7 days
Fecal Coliform	G	SM9222D	<u><</u> 6 °C	6 hours
Total Residual Chlorine	G	SM4500-Cl	None	Immediate (field measurement)
Oil & Grease	G	EPA1664A	Sulfuric Acid to pH <2, <u><</u> 6°C	28 days
COD (002 only)	С	SM5220 C or D	Sulfuric Acid to pH <2, ≤6°C	28 days
TOC (002 only)	С	SM5310 B, C, or D	Hydrochloric Acid or Sulfuric Acid to pH<2, ≤6°C	28 days
NH3-N	С	EPA350.1/ SM4500NH3	Sulfuric Acid to pH<2, <u><</u> 6 °C	28 days
Temperature	G	SM2550B	None	Field Measurement Analyze immediately (15 minutes)

C = composite sample

Table 2-4. Stormwater Outfall Sampling Parameters for DSN003
Application for NPDES Permit Renewal, IP Prattville Mill, Prattville, Alabama

Parameter	Sample Type	Method	Preservative	Holding Time
EPA Form 2F, Part VII-A F	Requiremen	nts		
pН	G	EPA150.2/ SM4500H+B	None	Field Measurement Analyze immediately (15 minutes)
Oil & Grease	G	EPA1664A	Sulfuric Acid to pH <2, ≤6 °C	28 days
BOD ₅	G/C	SM5210B	≤6°C	48 hours
COD	G/C	SM5220 C or D	Sulfuric Acid to pH <2, ≤6°C	28 days
TS5	G/C	SM2540D	≤6°C	7 days
Total Nitrogen		Total Nitrogen will be	calculated by adding the Nitrat	e-Nitrite and TKN results
Nitrate-Nitrite	G	EPA300.0/353.2/ SM4500-NO3	Sulfuric acid to pH<2, <u><</u> 6°C	28 days
TKN	G	EPA351.2/ SM4500-NH3	Sulfuric Acid to pH<2, ≤6°C	28 days
Total Phosphorus	G/C	EPA365.1/SM4500P	Sulfuric Acid to pH <2, ≤6 °C	28 days
EPA Form 2F, Part VII-C R	Requiremen	ts		
Total Residual Chlorine	G	SM4500-Cl	None	Immediate (field measurement)
Color, ADM1	G/C	SM2120C/NCASI 253	<u><</u> 6 ℃	48 hours
Fecal Coliform	G	5M9222D	<u>.</u> <u>≤</u> 6 °C	6 hours
Fluoride	G/C	EPA300.0	Sulfuric Acid to pH<2, ≤6 °C	28 days
Nitrate-Nitrite	G/C	EPA300.0/353.2/ SM4500-NO3	Sulfuric acid to pH<2, <6 °C	28 days
TON		TON will be calculated by s	subtracting the NH3 results from	n TKN (analyzed under Part VII-A
NH3-N	G/C	EPA3S0.1/SM4500NH3	Sulfuric Acid to pH<2, ≤6 °C	28 days
Sulfate	G/C	EPA 300.0/ 375.2/ SM4500SO4	<u><</u> 6 °C	28 days
Sulfite	G/C	SM4500SO3	≤6°C	Field Measurement Analyze immediately (15 minutes)
5urfactants	G/C	SM5540 C	<u><</u> 6 °C	48 hours
Aluminum, Total	G/C	EPA200.8	Nitric Acid to pH <2	180 days
Barium	G/C	EPA200.8	Nitric Acid to pH <2	180 days
iron, Total	G/C	EPA200.8	Nitric Acid to pH <2	180 days
Magnesium, Total	G/C	EPA200.8	Nitric Acid to pH <2	180 days
Manganese	G/C	EPA200.8	Nitric Acid to pH <2	180 days

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SECTION 3

Derivation of Permit Limitations

This section discusses the applicable ELG subparts, ELG calculations, and water quality-based limitations for the IP Prattville NPDES permit renewal. There are no planned mill changes during the next permit cycle that will impact the production-based limits; however, with this permit renewal, IP is requesting correction of the applicable ELGs in the permit basis to include Subpart J for the portion of the pulp furnished from old corrugated cardboard (OCC).

3.1 Applicable Effluent Limitation Guidelines

Based on operations at IP Prattville Mill, 40 CFR 430, Subpart C (Unbleached Kraft) and Subpart J (Secondary Fiber) ELGs are applicable and provide the basis for the calculated allocations for the ELG-based limits presented in this section. Note that ADEM's 2013 permit rationale and ELG calculations assume Subpart C applicability only, which is discussed further in Section 3.2.

3.2 ELG Calculations

Production-based effluent limits are calculated using a reasonable measure of actual long-term production. The linerboard production values shown in Table 3-1 reflect historical values from 2013 through June 2018. For these values, production is defined as off-the-machine production (including off-the-machine coating where applicable). Production furnished from kraft pulp is subject to Subpart C. Production furnished from recycled pulp is subject to Subpart J. The NPDES permit production basis is presented in Table 3-1.

Table 3-1. NPDES Permit Production Basis

Application for NPDES Permit Renewal, IP Prattville Mill, Prattville, Alabama

Process Description	Last 12 Months ¹ Highest Monthly Average 1,000 lb/day	Highest Year of Last 5 ² Monthly Average 1,000 lb/day	
PM1 Unbleached Kraft Production	3,789	3,674	
from Wood Pulp ³	(1,894 ADT/d)	(1,837 ADT/d)	
PM2 Unbleached Kraft Production	3,188	2,486	
from Wood Pulp ³	(1,594 ADT/d)	(1,243 ADT/d)	
PM1 Unbleached Production from	624	710.7	
Old Corrugated Container Pulp ⁴	(312 ADT/d)	(3S5.4 ADT/d)	
PM2 Unbleached Production from	704.5	445	
Old Corrugated Container Pulp ⁴	(352.3 ADT/d)	(222 ADT/d)	

¹Last 12 months: July 2017 through June 2018

ADT/d = air dry tons per day

ADT/y = air dry tons per year

lb/day = pounds per day

PM = paper machine

² Highest Year of Last 5: 2013 through 2017

Measured as off-the-machine production furnished by kraft pulp; regulated by 40 CFR 430, Subpart C (40 CFR 430.32)

⁴ Measured as off-the-machine production furnished by OCC; regulated by 40 CFR 430, Subpart J (40 CFR 430.102)

The calculated ELG-based allocations for 5-day biochemical oxygen demand (BOD₅) and total suspended solids (TSS) based on 2013 to June 2018 historical production are shown in Table 3-2; the current permit limits are listed for comparison. It is noted that the current permit limits were set in 2014 (and previously in 2007) to avoid backsliding, with the more stringent limits for BOD₅, TSS, pentachlorophenol (PCP), and trichlorophenol (TCP) retained from the previous permit rather than setting the limits based on the calculated 2012 production-based allocations.

As noted above, it also appears that previous permit limits were based on applicability of Subpart C only. For additional comparison, Table 3-2 includes a correction to the current permit limits for that portion of the pulp furnished from OCC. To make the correction, the production basis that set the current permit limits was back-calculated using the current limits and the ELG factors, resulting in a total production of 3,099 ADT/day. This production basis was confirmed by reviewing historical production information provided in the 2001 application, which reported a maximum yearly average production of 3,091 ADT/day between 1996 and 2000. [It was noted that with the 2001 application IP requested additional allocation for a planned sustained production increase of 3,276 ADT/day; however, this additional allocation does not appear to be reflected in the current limits.]

Based on the 2013 to 2018 data, the OCC pulp contribution has ranged between 4% and 21%, averaging 11%. The OCC pulp contribution when the current permit limits were set is not available in the historical (2001 and 2006) applications. The corrected allocations, therefore, reflect the 3,099 ADT/day, split between Subpart B (virgin pulp) and Subpart J (OCC furnished pulp) at a ratio of 4% OCC (the lower end of the range based on 2013 to 2018 production).

With this permit renewal, IP is requesting correction of the permit basis to include application of both Subparts C and J at the calculated allocations based on 2013 to 2018 production, as shown below.

Table 3-2. Calculated Effluent Guideline-based Allocations: BOD₅, TSS, PCP, TCP Application for NPDES Permit Renewal, IP Prottville Mill, Prottville, Alabama

Production	Daily Max (lb/day)	Monthly Average (lb/day)					
Current Permit (Anti-backsliding per 2013 permit rationale; Subpart C only)							
BOD ₅	34,708	17,354					
TSS	74,376	37,188					
PCP1	3.3						
TCP1	3.1						
Corrected Allocations (Subpar	ts C and J; Current Permit/Anti-	backsliding Production Basis					
BOD ₅	34,715	17,354					
TS5	74,202	37,101					
PCP1	3.6						
TCP1	3.3						
Calculated Allocations (based	on 2013 to 2018 Production, Su	obparts C and J)					
BOD₅	47,138	23,498					
TSS	96,743	48,371					
PCP1	. 5.3						
TCP1	4.1						

¹Limits for PCP and TCP are not applicable if discharger certifies non-use of chlorophenolic biocides. IP will continue to submit annual certification.

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3.3 Water Quality Limitations

3.3.1 BOD₅

IP Prattville's current NPDES permit requires effluent guidelines for BOD₅ to be applicable year-round, and a formula to calculate BOD₅ limits based on Alabama River water quality to be applicable May 15 through October 15.

$$BOD_5$$
 (lbs/day) = $0.0017QR^{1.8502}$

The equation relates the flow rate (Q_R) in cubic feet per second of the Alabama River at Jones Bluff Lock and Dam (now known as Robert F. Henry Lock and Dam) to an allowable discharge rate of BOD_5 in pounds per day (lbs/day). IP Prattville obtains the Alabama River flow rate from the schedule of dam releases published by the U.S. Army Corps of Engineers on their web page.

The equation has proven to be protective of water quality, and IP requests no changes to the BOD₅ discharge equation or the period of the year in which it is applicable.

3.3.2 Stream Monitoring

To verify that IP Prattville's NPDES permit requirements regarding the discharge of BOD₅ are not causing or contributing to low dissolved oxygen (DO) concentrations in the Alabama River downstream of the facility's treated wastewater discharge, IP Prattville is required to conduct water quality surveys along the river from Alabama River Mile 278.3 (US Highway 31 bridge) to Alabama River Mile 250.2 (Blue Bluff) at least once per week between May 15 and October 15 at 10 routine sampling locations. [Note that the mill's discharge location is at River mile 275.3.] If the DO concentration of the river at Alabama River Mile 250.2 is less than 7 milligrams per liter (mg/L) and is decreasing by more than 0.3 mg/L between Alabama River Miles 253.8 and 250.2, IP Prattville must continue sampling downstream at 2-mile intervals until the DO concentration is no longer decreasing by more than 0.3 mg/L between stations. The river surveys are not required to be conducted downstream of Jones Bluff Lock and Dam, located at Alabama River Mile 236.1. However, if the DO concentration at any of the survey stations is less than 5.9 mg/L, the monitoring frequency increases to twice per week. If the minimum DO concentration at any of the river survey stations is less than 5.4 mg/L, the monitoring frequency increases to daily. Parameters to be measured during each survey include DO at a depth of 5 feet, water temperature, pH, and BOD5. BOD₅ is required no more than once per 7-day period. Sampling time is to be recorded for each station and, when possible, sampling should be completed before 12:00 noon. River monitoring is not required on days when there is no discharge of treated wastewater from the IP Prattville wastewater treatment facility at outfall DSN001.

DO concentrations in the Alabama River measured by the IP Prattville facility at the 10 routine sampling locations during river surveys conducted between May 2006 and October 2017 are summarized in Table 3-3. The DO concentrations measured in the Alabama River at the conditional river monitoring stations located downstream of Alabama River Mile 250.2 are summarized in Table 3-4.

The data illustrate that DO concentrations of less than 5.0 mg/L are extremely rare within the routinely monitored segment of the Alabama River between River Miles 278.3 and 250.2, as only one measured DO concentration was less than 5.0 mg/L between 2006 and 2017. During this time, 2,579 measurements were recorded over the entire monitored segment and only four DO concentrations were less than 5.0 mg/L. Three of those four measurements were reported on a single day (July 15, 2011) at the conditional monitoring locations downstream of River Mile 250.2.

The 10th percentile DO concentration for each station is shown in Tables 3-3 and 3-4. This information is useful for determining trends between stations. For example, the 10th percentile DO concentrations at River Miles 278.3, 275.3, and 272.5 vary by less than 0.1 mg/L, indicating that the lowest 10 percent of

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the DO concentrations measured at these locations were consistent during the monitoring period and little change in minimum DO concentration occurs within this segment of the river. A similar comparison can be made for River Miles 270.0 and 268.7, River Miles 260.2 and 257.0, and River Miles 253.8 and 250.2.

Table 3-3. River Survey DO Summary for Routine River Survey Stations (2006 to 2017)

Application for NPDES Permit Renewal, IP Prattville Mill, Prattville, Alabama

	All Stations	River Mile 278.3	River Mile 275.3	River Mile 272.5	River Mile 270.2	River Mile 268.7	River Mile 264.5	River Mile 260.2	River Mile 257.0	River Mile 253.8	River Mile 250.2
Number of Samples	2,579	2 51	250	250	25 0	250	250	248	247	248	248
Minimum DO, mg/L	4.35	5.64	5.79	5.89	5.60	5.01	5.12	5.08	5.1 3	4.78	5.01
Average DO, mg/L	7.17	7.69	7.62	7.58	7.34	7.28	7.07	6.84	6.85	6.86	6.92
Median DO, mg/L	7.11	7.64	7.53	7.53	7.20	7.18	7.00	6.70	6.75	6.76	6.82
10th Percentile DO, mg/L	6.07	6.86	6.82	6.77	6.47	6.43	6.22	5.96	5.89	5.84	5.84
# DO < 5.0 mg/L	4	0	0	0	0	0	0	0	0	1	0
# DO < 5.5 mg/L	58	0	0	0	0	1	7	7	8	9	11
Percent DO < 5.9 mg/L	6.48	1 .21	0.40	0.40	1.60	2.40	4.80	8.06	10.12	12.10	12.10
Percent DO < 6.1 mg/L	10.51	1.21	0.80	1.20	2.80	4.00	7.20	14.92	20.24	20.97	18.55
`Percent DO < 7.0 mg/L	43.51	13.71	16.00	20.00	34.80	36.00	48.00	66.13	63.56	62.90	57.66

Table 3-4. River Survey DO Summary for Conditional River Survey Stations (2006 to 2017)

Application for NPDES Permit Renewal, IP Prattville Mill, Prattville, Alabama

	River Mile 247.9	River Mile 245.8	River Mile 244.0	River Mile 241.8	River Mile 240.8	River Mile 237.6
Number of Samples	51	18	9	3	2	2
Minimum DO, mg/L	5.03	5.11	5.17	4.71	4.44	4.35
Average DO, mg/L	6.17	6.08	5.87	5. 56	5.14	4.84
Median DO, mg/L	6.19	6.18	5.72	5.67	5.14	4.84
10th Percentile DO, mg/L	5.51	5.29	5.18	4.90	4.58	4.45
# DO < 5.0 mg/L	0	. 0	0	1	1	1
# DO < 5.5 mg/L	5	3	3	1	1	2
Percent DO < 5.9 mg/L	35.29	33.33	55.56	66.67	100.00	100.00
Percent DO < 6.1 mg/L	47.06	44.44	55.56	66.67	100.00	100.00
Percent DO < 7.0 mg/L	94.12	64.44	100.00	100.00	100.00	100.00

Based on the summaries of DO concentrations in the Alabama River between River Miles 278.3 and 237.6, IP Prattville is requesting that the following changes to the river survey requirements be included in the NPDES permit:

- Delete monitoring stations at River Miles 278.3, 272.5, 270.2, 264.5, and 257.0 since these stations
 are redundant to nearby stations and DO concentrations measured at these locations provide no
 new information regarding water quality conditions in the Alabama River.
- Remove the DO monitoring frequency triggers (minimum DO concentrations of 5.9 mg/L and 5.4 mg/L) and set the river survey frequency to once per week from May 15 through October 15. DO concentration data have shown that periods of low DO are rare. Only 2.2 percent of DO concentrations have been less than 5.5 mg/L.
- 3. Revise the conditional DO monitoring trigger for stations downstream of River Mile 250.2 from 7.0 to 6.1 mg/L, as the data summary showed that there were no downstream DO concentrations less than 5.0 mg/l when DO at River Mile 250.2 was greater than 6.1 mg/L. Retain the 0.3 mg/L decreasing DO trigger between River Miles 253.2 and 250.2, to require monitoring at 2-mile intervals downstream.
- 4. Remove the requirement to collect water samples for BOD5 analysis. BOD5 concentrations measured between 2006 and 2017 are consistently near background levels and do not provide useful information about water quality conditions in the Alabama River.
- 5. Remove the requirement to measure pH during river surveys. River pH levels are consistently within the normal range for the Alabama River. The 10th percentile level is 6.90 standard units (s.u.) and the 90th percentile value is 7.75 s.u. The pH data are not used by IP Prattville in their wastewater discharge management decisions.

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SECTION 4

Requested Permit Limits and Monitoring

This section presents the requested permit limitations and monitoring requirements for the IP Prattville Mill NPDES permit renewal. IP requests that the monitoring frequencies remain the same as in the existing permit for Outfalls DSN001, DSN002, and DSN003, and that limitations for Outfalls DSN002 and DSN003 remain the same.

IP also requests that the permit basis for Outfall DSN001 be corrected to reflect application of both 40 CFR 430, Subpart C (Unbleached Kraft) and Subpart J (Secondary Fiber). Requested ELG-based permit limits for DSN001, which reflect this correction, are listed in Table 4-1.

Table 4-1. Requested Permit Limits for Outfall DSN001

Application for NPDES Permit Renewal, IP Prattville Mill, Prattville, Alabama

Production	Daily Maximum (lbs/d)	Monthly Average (lbs/d)
BOD₅	47,138	23,498
TSS	96,743	48,371
PCP ¹	5.3	
TCP ¹	4.1	

¹Limits for PCP and TCP are not applicable if discharger certifies non-use of chlorophenolic biocides. IP will continue to submit annual certification.

IP also is requesting changes to the NPDES permit Part IV.C.2 stream monitoring requirements as outlined in Section 3.3.2.

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

The Plea	tructions: This form should be used to submit the required supplementary information for an application for an NPDES individual completed application should be submitted to ADEM in duplicate. If insufficient space is available to address any item, please continues mark "N/A" in the appropriate box when an item is not applicable to the applicant. Please type or print legibly in blue or lication to:	ue on an attached sheet of paper.
app.	ADEM-Water Division Industrial Section P O Box 301463 Montgomery, AL 36130-1463	DECEIV N SEP 1 9 2018
	PURPOSE OF THIS APPLICATION	IND/MUN BRAN
	Initial Permit Application for New Facility* Modification of Existing Permit Revocation & Reissuance of Existing Permit * An application for participation in the ADEM's Electronic Environ submitted to allow permittee to electronically submit reports as relative to the submittee to the submit	nmental (E2) Reporting must be
SE	CTION A - GENERAL INFORMATION	
1.	Facility Name: International Paper, Prattville Mill	
	a. Operator Name: International Paper	
	b. Is the operator identified in A.1.a, the owner of the facility? Yes No If no, provide name and address of the operator and submit information indicating the operator's scorfacility.	pe of responsibility for the
2.	NPDES Permit Number: AL 0 0 0 3 1 1 5 (not applicable if initial permit application)	
3.	SID Permit Number (if applicable): IU	
4.	NPDES General Permit Number (if applicable): ALG	
5.	Facility Physical Location: (Attach a map with location marked; street, route no. or other specific identification and Street: 100 Jensen Road	ntifier)
	City: Prattville County: Autauga State: AL Zip:	36067
6.		28 minutes 23.4 seconds
o.	City: Prattville County: Autauga State: AL Zip:	36067
7.	Responsible Official (as described on the last page of this application): Name and Title: Carl Gunter - Mill Manager Address: 100 Jensen Road	
		36067
	Phone Number: (334) 361-5001 Email Address: Carl. Gunter@ipaper.con	
8.	Designated Facility Contact:	
-	Name and Title: Jerry Horne - Environmental Lead	
)	Phone Number: (334) 361-5038 Email Address: Jerry.Horne@ipaper.com	n

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	9.	Designated Discharge Monitoring Report (DMR) Contact: Name and Title: Brett Atchison - Environmental H	ealth and Safety Speciali	st
`		Phone Number: (334) 361-5030 Email Addres		
)	10.	D. Type of Business Entity:	<u> </u>	
			ip Limited Liability Company	☐ Sole Proprietorship
	11.	Complete this section if the Applicant's business entity is a Corpora	tion	
		a) <u>Location of Incorporation:</u> Address: 111 Eighth Avenue - 13th Floor		
		City: New York County: New York	State: New York Zip	10011
		b) Parent Corporation of Applicant: Name: International Paper		
,		Address: 6400 Poplar Avenue		
		City: Memphis State: TN	Zip:	38197
		c) Subsidiary Corporation(s) of Applicant:		
		Name:_N/A		
		Address:		
_		City:State:	Zip:	
)		d) Corporate Officers:		
		Name: Mark S. Sutton - Chairman and Chief Exe	cutive Officer	-
		Address: 6400 Poplar Ave		
		City: Memphis State: TN		38197
		Name: Tommy S. Joseph - Senior Vice Presiden	<u> </u>	
		Address: 6400 Poplar Avenue		
		City: Memphis State: TN	Zip:	38197
		e) Agent designated by the corporation for purposes of service: Name: CT Corporation		
		Address: 2 North Jackson Street - Suite 605		
		City: Montgomery State: AL	Zip:	36104
	12.	. If the Applicant's business entity is a Partnership, please list the gen		
		Name: N/A	Name: N/A	
			Address:	
		City:State:Zip:	City:State:	Zip:
_				

Address;			
City:	State:		Zip:
Permit numbers for Applicant's pre Permits presently held by the Appli	eviously issued NPDES Permocant, its parent corporation, o	nits and identification of any otler or subsidiary corporations within	ner State of Alabama Environmenta the State of Alabama:
Permit Name	<u>Permi</u>	it Number	<u>Held By</u>
see Attachment 1			
f any, against the Applicant, its par	ent corporation or subsidiary	tives, Administrative Orders, or corporations within the State of Type of Action	Litigation concerning water pollution of Alabama within the past five years <u>Date of Action</u>
None identified			
		-	
			· ———
			<i>-</i>
	Permits presently held by the Application Permit Name See Attachment 1 Identify all Administrative Complain if any, against the Applicant, its partication additional sheets if necessary in the Application in the Applica	Permit Name Identify all Administrative Complaints, Notices of Violation, Directif any, against the Applicant, its parent corporation or subsidiary (attach additional sheets if necessary): Facility Name Permit Number None identified	Identify all Administrative Complaints, Notices of Violation, Directives, Administrative Orders, or if any, against the Applicant, its parent corporation or subsidiary corporations within the State of (attach additional sheets if necessary): Facility Name

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2. If yo was	our facility conducts or will te sludge, or hazardous w	be conducting any of the proaste), place a check beside th	cess e ca	ses listed below (regardless of w tegory of business activity (check	rhether they generate wastewater, all that apply):
		<u>Industr</u>	ial C	ategories	
These fa	Asbestos Manufacturing Battery Manufacturing Can Making Canned and Preserved Canned and Preserved Cement Manufacturing Centralized Waste Tree Carbon Black Coal Mining Coil Coating Copper Forming Electric and Electronic Electroplating Explosives Manufacturing Fertilizer Manufacturing Foundries (Metal Moldi Glass Manufacturing Grain Mills Gum and Wood Chemi Inorganic Chemicals Iron and Steel Leather Tanning and F Metal Finishing Meat Products with processes inclusive i cilities are termed "catego"	Fruit and Vegetables Seafood Seafood The s	que ing p		ring ring anufacturing ring ning ning con (EPA) categorical standards. ch additional sheets if necessary):
pro	oduced from post-consu	mer waste paper. Pulp is c	onve	erted to linerboard using two fo	ourdrinier paper machines.
Cr	ude tall oil is produced t	by acidulation of wood fat so	oaps	(black liquor skimmings) and	is shipped off-site. Crude
su	fate turpentine is conde	nsed, recovered and shipp	ed c	off-site.	
SECTION	N.C. WASTEWATED DI	SCUARCE INFORMATION			
		SCHARGE INFORMATION			0.0 of this continu
1. For flow trea	Non-Categorical Users (schematic (Figure 1), er tment units as well as m Process Description	Only: Provide wastewater flow ter the description that corre- conitoring and discharge poi Last 12 Months (gals/day) Highest Month Avg. Flow	/s for	nds to each process. (The flow [New facilities should provide es Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow	sed processes. Using the process or schematic should include all timates for each discharge.] Discharge Type (batch, continuous, intermittent)
<u>N/A</u>		N/A		N/A	N/A
		<u> </u>	-		
		•			
			-		
		-	_		-

Regulated Process Applicable Category Applicable Subpart (batch, continuous, intermittent) See Attachment 2 See Attachment 2 See Attachment 2 See Attachment 2 Type of Discharge Flow (batch, continuous, intermittent) See Attachment 2	if batch	n discharge occurs or will o	L.	CII Idomico III	ay commute.		
c. Time of batch discharges NA (days of week) at NA (days of week) d. Flow rate: N/A e. Percent of total discharge: Non-Process Discharges (e.g. non-contact cooling water) N/A N/A N/A N/A N/A N/A N/A N/	a.	Number of batch discha	rges: N/A		_ per day		•
c. Time of batch discharges M/A (days of week) d. Flow rate: M/A Percent of total discharge: Non-Process Discharges (e.g., non-contact cooling water) N/A Non-Process Discharges (e.g., non-contact cooling water) N/A N/A Last 12 Months (gals/day) N/A N/A N/A N/A N/A N/A N/A Per day Regulated Process Description See Attachment 2 Teaported values should be expressed in units of the applicable Federal production-based standard. For example, flow (MGD), production (pounds per day), etc. The or batch discharges N/A Last 12 Months (gals/day), etc. Mighest Flow Year of Last 5 (gals/day) Monthly Avg. Flow N/A N/A N/A N/A N/A N/A Process Description Reported values should be expressed in units of the applicable Federal production-based standard. For example, flow (MGD), production (pounds per day), etc. *Reported values should be expressed in units of the applicable Federal production-based standard. For example, flow (MGD), production (pounds per day), etc. N/A N/A Regolated Process Regolated Process Out occur, indicate: [new facilities may estimate.] *Reported values should be expressed in units of the applicable Federal production-based standard. For example, flow (MGD), production (pounds per day), etc. N/A N/A N/A N/A Per day A N/A (days of week) A N/A (days of week) A N/A (days of week) A N/A (flours of day)	b.	Average discharge per l	patch: N/A		(GPD)		
d. Flow rate: N/A gallons/minute e. Percent of total discharge: N/A Non-Process Discharges (e.g. non-contact cooling water) N/A	C.		NI/A		at N/A		
e. Percent of total discharge: N/A Non-Process Discharges (e.g., non-contact cooling water) N/A Last 12 Months (gals/day) Highest Month Avg. Flow N/A N/A Last 12 Months (gals/day) Monthly Avg. Flow N/A N/A N/A Last 12 Months (gals/day) Monthly Avg. Flow N/A N/A Last 12 Months (gals/day) Monthly Avg. Flow N/A N/A Last 12 Months (gals/day) Monthly Avg. Flow N/A N/A Last 12 Months (gals/day) Monthly Avg. Flow N/A Last 12 Months (gals/day) Monthly Avg. Flow N/A N/A Last 12 Months (gals/day) Monthly Avg. Flow N/A Last 12 Months (gals/day), dec. Monthly Avg. Flow Last 12 Months (gals/day), dec. Monthly Avg. Flow Monthly Avg. Flow N/A Last 12 Months (gals/day), dec. Monthly Avg. Flow N/A	0.	Time of Paten desirings		week)		s of day)	_
Non-Process Discharges (e.g. Highest Month Avg. Flow Monthly	d.	Flow rate: N/A		gallons	s/minute		
Non-Process Discharges (e.g. (gals/day) (gals/day) Monthly Avg. Flow N/A	e.	Percent of total discharg	_{je:} <u>N/A</u>				
2. Complote this Section only if you are subject to Categorical Standards and plan to directly discharge the associated wastewater to a water of the State. If Categorical wastewater is discharged exclusively via an indirect discharge to a public or privately-owned treatment works, check "Yes" in the appropriate space below and proceed directly to part 2.c. Yes				(9	gals/day)	(gals/day)
wastewater to a water of the State. If Categorical wastewater is discharged exclusively via an indirect discharge to a public or privately-owned treatment works, check "Yes" in the appropriate space below and proceed directly to part 2.c. Yes		N/A		N/A		N/A	
wastewater to a water of the State. If Categorical wastewater is discharged exclusively via an indirect discharge to a public or privately-owned treatment works, check "Yes" in the appropriate space below and proceed directly to part 2.c. Yes							
See Attachment 2 Last 12 Months (gals/day), (btc. Highest Month Average* Monthly Average* Monthly Average* See Attachment 2 See Attachm	For	r Categorical Users: Provi ch of your processes or	proposed proces	ses. Using the	e process flow sch	nematic (Figure 1,	
Process Description See Attachment 2 * Reported values should be expressed in units of the applicable Federal production-based standard. For example, flow (MGD), production (pounds per day), etc. a. Number of batch discharges: N/A Average discharge per batch: Tast 12 Months (gals/day), (lbs/day), etc. (gals/day), (lbs/day), etc. Monthly Average* See Attachment 2 See Attachment 2 See Attachment 2 See Attachment 2 For example, flow (MGD), production (pounds per day), etc. In a per day b. Average discharge per batch: N/A (GPD) c. Time of batch discharges N/A (days of week) M/A (days of week) gallons/minute				·		Ту	
Last 12 Months (gals/day), (lbs/day), etc. Highest Flow Year of Last 5 (gals/day), (lbs/day), etc. Highest Month Average* See Attachment 2 * Reported values should be expressed in units of the applicable Federal production-based standard. For example, flow (MGD), production (pounds per day), etc. f batch discharge occurs or will occur, indicate: [new facilities may estimate.] a. Number of batch discharges: N/A		Regulated Process	Applicable Ca	ategory	Applicable Subp	Ty eart (batch	, continuous, intermittent)
* Reported values should be expressed in units of the applicable Federal production-based standard. For example, flow (MGD), production (pounds per day), etc. f batch discharge occurs or will occur, indicate: [new facilities may estimate.] a. Number of batch discharges: N/A		Regulated Process	Applicable Ca	ategory	Applicable Subp	Ty eart (batch	, continuous, intermittent)
example, flow (MGD), production (pounds per day), etc. f batch discharge occurs or will occur, indicate: [new facilities may estimate.] a. Number of batch discharges: N/A per day b. Average discharge per batch: N/A (GPD) c. Time of batch discharges N/A at N/A (days of week) (hours of day) d. Flow rate: N/A gallons/minute	2a.	Regulated Process See Attachment 2	Applicable Ca See Attachme Last 12 (gals/day),	ent 2 S Months (lbs/day), etc.	Applicable Subp See Attachment 2 Highest Flow (gals/day),	Ty hart (batch See Att	ntermittent) tachment 2 Discharge Type (batch, continuous,
d. Flow rate: N/A gallons/minute	2a. 2b.	Regulated Process See Attachment 2 Process Description	Applicable Ca See Attachme Last 12 (gals/day), Highest Mo	ategory ent 2 S 2 Months (lbs/day), etc.	Applicable Subp See Attachment 2 Highest Flow (gals/day), Monthly	y Year of Last 5 (lbs/day), etc.	Discharge Type (batch, continuous, intermittent)
N/A	2a. 2b. If batch a. b.	Process Description See Attachment 2 Process Description See Attachment 2 * Reported values sho example, flow (MGD), position of batch discharge discharge per leading to the control of	Applicable Ca See Attachme Last 12 (gals/day), Highest Mo See Attachme uld be expressive and action (pound occur, indicate: [nattachme] patch: N/A N/A N/A	ategory ent 2 2 Months (lbs/day), etc. enth Average* ment 2 ed in units of disper day), etc. ew facilities many	Applicable Subp See Attachment 2 Highest Flow (gals/day), Monthly See Attachm of the applicable etc. ay estimate.] per day (GPD) at N/A	y Year of Last 5 (lbs/day), etc. y Average* hent 2	Discharge Type (batch, continuous, intermittent) See Attachment 2
	2a, 2b. If batch a. b.	Process Description See Attachment 2 * Reported values sho example, flow (MGD), point of batch discharge of batch discharge per lateral transfer of batch discharge flow (MGD).	Applicable Ca See Attachme Last 12 (gals/day), Highest Mo See Attachme uld be expressive and action (pound occur, indicate: [nattachme] patch: N/A N/A N/A	ategory ent 2 2 Months (lbs/day), etc. enth Average* ment 2 ed in units of the condition	Applicable Subp See Attachment 2 Highest Flow (gals/day), Monthly See Attachm of the applicable etc. ay estimate.] per day (GPD) at N/A (hours	y Year of Last 5 (lbs/day), etc. y Average* hent 2	Discharge Type (batch, continuous, intermittent) See Attachment 2

	Non categor Process Descr	ical (g iption Highest M	12 Months als/day) lonth Avg. Flow	gal	/ Year of Last 5 s/day) Avg. Flow	Discharge Type (batch, continuous, intermittent)
	N/A	N/A		N/A 		N/A
If bat	atch discharge occur	rs or will occur, indicate	e: [new facilities ma	ay estimate.]		
i	a. Number of bate	ch discharges: N/A		_per day		
1	b. Average discha	arge per batch: N/	<u>'</u> A	(GPD)		
	c. Time of batch			_at _N/A		_
			s of week)	(hours	of day)	_
1	d. Flow rate: N/A		gallons	s/minute		
	e. Percent of tota	l discharge: N/A				
2d.	1				•	
		-Process Discharges n-contact cooling water	(9	: 12 Months gals/day) Month Avg. Flow	(g	ow Year of Last 5 als/day)
	DSN002		3,340,000	WOITE AVG. FIOW	3,230,000	ly Avg. Flow
	DSN003		80,000		550,000	<u> </u>
	Applicants must co	·	lity? ☐ Yes ■	No (If no continu	e to C 4)	- About to describe the control of t
	Do you share an of For each shared of Applicant's	outfall with another faci outfall, provide the follo	wing:	No (If no, continu	·	ere is sample collected
All A 3.	Do you share an o	outfall with another faci	wing:		·	ere is sample collected by Applicant?
3.	Do you share an of For each shared of Applicant's Outfall No.	outfall with another facioutfall, provide the followant of Other Period N/A In to have, automatic second of Current:	wing: rmittee/Facility	NPDES Permit No. N/A t or continuous wa	N/A	
3. 4. I	Do you share an of For each shared of Applicant's Outfall No. N/A Do you have, or pla	outfall with another facioutfall, provide the following Name of Other Per N/A In to have, automatic services of Current:	wing: rmittee/Facility ampling equipmen Flow Metering Sampling Equipme Flow Metering Sampling Equipme	NPDES Permit No. N/A t or continuous wa Yes ent Yes Yes Yes Yes	N/A Stewater flow meter No N/A No N/A No N/A No N/A	by Applicant? ring equipment at this faci
3. 4. !	Do you share an of For each shared of Applicant's Outfall No. N/A Do you have, or pla	outfall with another facioutfall, provide the followard of Other Per N/A In to have, automatic services of Current: Planned:	wing: rmittee/Facility ampling equipmen Flow Metering Sampling Equipme Flow Metering Sampling Equipme	NPDES Permit No. N/A t or continuous wa Yes ent Yes Yes Yes Yes	N/A Stewater flow meter No N/A No N/A No N/A No N/A	by Applicant?
3. 4. 1 s -	Do you share an of For each shared of Applicant's Outfall No. N/A Do you have, or plate the equipment below See Figure 2 Are any process characters.	outfall with another facioutfall, provide the following of Other Per N/A In to have, automatic services of Current: Planned: a schematic diagram ow:	wing: rmittee/Facility ampling equipmen Flow Metering Sampling Equipme Flow Metering Sampling Equipme	NPDES Permit No. N/A t or continuous wa Yes Yes Yes Yes A indicating the pre	N/A Stewater flow meter No N/A No N/A No N/A No N/A No N/A No N/A Sent or future location	by Applicant? ring equipment at this faci

		Trade Name		Chemical Composition
		See Attachment 3	See Attachm	nent 3
For	each	h biocide and/or corrosion inhibitor used, please include th	e following informati	ion:
	(2) (3) (4)	96-hour median tolerance limit data for organisms repres- ultimately reach, quantities to be used, frequencies of use, proposed discharge concentrations, and EPA registration number, if applicable	entative of the biota	of the waterway into which the discharge will
		ON D WATER SUPPLY ources (check as many as are applicable):		
		Private Well	■ Surfa	ace Water
		Municipal Water Utility (Specify City):	☐ Othe	er (Specify):
	IF N	MORE THAN ONE WELL OR SURFACE INTAKE, PROVI	DE DATA FOR EA	CH ON AN ATTACHMENT
	City	r: N/A MGD* Well: See Att. 4 MGD* Well De	epth: See Att. 4 Ft.	Latitude: See Att. 4 Longitude: See Att. 4
		face Intake Volume: 38.5 max MGD* Intake Eleva		
		ke Elevation: 88Ft. Latitude: 32°24'24"		
	Nam	ne of Surface Water Source: Alabama River		
		ne of Surface Water Source: Alabama River GD – Million Gallons per Day		
Co	* MC oling mplet other	GD – Million Gallons per Day Water Intake Structure Information Ite D.1 and D.2 if your water supply is provided by an orindustry, municipality, etc) Does the provider of your source water operate a surface of the provider of your source water operate.	water intake? Yes [No _
Cor	* MC oling mplet other	GD – Million Gallons per Day Water Intake Structure Information te D.1 and D.2 if your water supply is provided by an orindustry, municipality, etc) Does the provider of your source water operate a surface of	water intake? Yes [
Cor	oling mplet other	GD – Million Gallons per Day Water Intake Structure Information Ite D.1 and D.2 if your water supply is provided by an orindustry, municipality, etc) Does the provider of your source water operate a surface of the provider of your source water operate a surface of the provider of your source water operate a surface of the provider of your source water operate a surface of the provider of your source water operate a surface of the provider of your source water operate a surface of the provider of your source water operate a surface of the provider of your source water operate a surface of the provider of your source water operate a surface of the provider of your source water operate as surface of the provider of your source water operate as surface of the provider of your source water operate as surface of the provider of your source water operate as surface of the provider of your source water operate as surface of the provider of your source water operate as surface of the provider of your source water operate as surface of the provider of your source water operate as surface of the provider of your source water operate as surface of the provider of your source water operate as your source water operate you	water intake? Yes [No _
Cor	* MC oling mplet other . [GD – Million Gallons per Day Water Intake Structure Information Ite D.1 and D.2 if your water supply is provided by an orindustry, municipality, etc) Does the provider of your source water operate a surface of (If yes, continue, if no, go to Section E.) a) Name of Provider: N/A	water intake? Yes b) Location bhich provides wate	on of Provider: N/A
Con and	* MC bling mplet other . [GD – Million Gallons per Day Water Intake Structure Information Ite D.1 and D.2 if your water supply is provided by an orindustry, municipality, etc) Does the provider of your source water operate a surface of (If yes, continue, if no, go to Section E.) a) Name of Provider: N/A c) Latitude: N/A the provider a public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system of the provider and public water system (defined as a system of the provider and public water system of the provider and public water system (defined as a system of the provider and public water system (defined as a system of the provider and public water system of the public water and public water and public water and public water	water intake? Yes b) Location bhich provides wate No (If yes, go to Se	on of Provider: N/A or to the public for human consumption or which ection E, if no, continue.)
Con and	* MO bling mplet other . [] (GD – Million Gallons per Day Water Intake Structure Information Ite D.1 and D.2 if your water supply is provided by an orindustry, municipality, etc) Does the provider of your source water operate a surface of (If yes, continue, if no, go to Section E.) a) Name of Provider: N/A c) Latitude: N/A to the provider a public water system (defined as a system of the provider and public water, not raw water)? Yes be completed if you have a cooling water intake struct	water intake? Yes b) Location which provides wate No (If yes, go to Secure or the provide)	on of Provider: N/A or to the public for human consumption or which ection E, if no, continue.) r of your water supply uses an intake structure
Con and	* MC bling mplet other ls pr ly to l doe 3. l 4. l	GD – Million Gallons per Day Water Intake Structure Information Ite D.1 and D.2 if your water supply is provided by an orindustry, municipality, etc) Does the provider of your source water operate a surface of (If yes, continue, if no, go to Section E.) a) Name of Provider: N/A c) Latitude: N/A to the provider a public water system (defined as a system of the provider a public water, not raw water)?	water intake? Yes b) Location which provides wate No (If yes, go to Secure or the provided	on of Provider: N/A or to the public for human consumption or which ection E, if no, continue.) or of your water supply uses an intake structure.
Con and	* MC bling mplet other ls pr ly to l doe 3. l 4. l 5. [GD – Million Gallons per Day Water Intake Structure Information Ite D.1 and D.2 if your water supply is provided by an orindustry, municipality, etc) Does the provider of your source water operate a surface of (If yes, continue, if no, go to Section E.) a) Name of Provider: N/A c) Latitude: N/A to the provider a public water system (defined as a system of provides only treated water, not raw water)? Yes be completed if you have a cooling water intake structers not treat the raw water. Is any water withdrawn from the source water used for cooluging the average monthly measurements over any 12-months.	water intake? Yes b) Location which provides wate No (If yes, go to Secure or the provided which period, approximate on the period of the p	on of Provider: N/A or to the public for human consumption or which ection E, if no, continue.) r of your water supply uses an intake structure No mately what percentage of water withdrawn is
Con and 1	* MC pling mplet other . [f f f f f f f f f f f f f f f f f f f	Water Intake Structure Information Ite D.1 and D.2 if your water supply is provided by an orindustry, municipality, etc) Does the provider of your source water operate a surface of (If yes, continue, if no, go to Section E.) a) Name of Provider: N/A c) Latitude: N/A to the provider a public water system (defined as a system of provides only treated water, not raw water)? Yes be completed if you have a cooling water intake structers not treat the raw water. Is any water withdrawn from the source water used for coolung the average monthly measurements over any 12-months of the cooling water consist of treated effluent that would be cooling water consist of treated effluent that would be cooling water consist of treated effluent that would be cooling water consist of treated effluent that would be cooling water consist of treated effluent that would be cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consist of treated effluent that would be consisted to the cooling water consisted to t	b) Location which provides wate No (If yes, go to Secure or the provide) which period, approximate on the period, approximate of the period	on of Provider: N/A or to the public for human consumption or which ection E, if no, continue.) r of your water supply uses an intake structure No mately what percentage of water withdrawn is

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) <i>(</i>		
 When was the intake installed? 196 (Please provide dates for all major continuous) 	onstruction/installation of intake	components including screens)	
8. What is the maximum intake volume	38,500,000		
(maximum pumping capacity in gallo	ns per day)		
What is the average intake volume? (average intake pump rate in gallons	30,080,000	neriod)	
10. What is the actual intake flow (AIF) a			
11. How is the intake operated? (e.g., co			
it. now is the intake operated? (e.g., co	nunuousiy, intermittentiy, batch;		
12. What is the mesh size of the screen	on your intake?approximately 390	square feet (dependent upon river level)	
14. What is the through-screen design in		_ft/sec	
15. What is the through-screen actual ve		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 detra	action technology on your intake	? ☐ Yes ■ No	
 Have there been any studies to deter provide.) 	rmine the impact of the intake or	n aquatic organisms? Yes No (If yes, please	
19. Attach a site map showing the location	on of the water intake in relation	to the facility, shoreline, water depth, etc.	
SECTION E - WASTE STORAGE AND DIS	PUSAL INFORMATION		
of the state, either directly or indirectly via suc		is or liquids that could be accidentally discharged to a w	vater
		e, the location should be noted on a map and included	ated
this application:	n is being made. Where possible	e, the location should be noted on a map and included	ated
this application: Description of Waste	n is being made. Where possible	e, the location should be noted on a map and included Description of Storage Location	ated
this application: Description of Waste Small quantities of hazardous waste, prima	on is being made. Where possible arily paint still bottoms	Description of Storage Location Hazardous Waste Storage Building	ated
this application: Description of Waste	on is being made. Where possible arily paint still bottoms	e, the location should be noted on a map and included Description of Storage Location	ated
this application: Description of Waste Small quantities of hazardous waste, prima Non-hazardous solid was	arily paint still bottoms aste	Description of Storage Location Hazardous Waste Storage Building	with
Small quantities of hazardous waste, prima Non-hazardous solid was Provide a description of the location of the	arily paint still bottoms aste	Description of Storage Location Hazardous Waste Storage Building Onsite permitted landfill	with
Small quantities of hazardous waste, prima Non-hazardous solid was Provide a description of the location of the wastewater treatment system located at the formal street in the system located at the formal system located at the system located at the system located at the formal system located at the system located at the system locate	arily paint still bottoms aste ultimate disposal sites of solid	Description of Storage Location Hazardous Waste Storage Building Onsite permitted landfill or liquid waste by-products (such as sludges) from	with
Description of Waste Small quantities of hazardous waste, prima Non-hazardous solid was Provide a description of the location of the wastewater treatment system located at the financial process.	arily paint still bottoms aste ultimate disposal sites of solid	Description of Storage Location Hazardous Waste Storage Building Onsite permitted landfill or liquid waste by-products (such as sludges) from	eated with
Description of Waste Small quantities of hazardous waste, prima Non-hazardous solid was Provide a description of the location of the wastewater treatment system located at the financial process.	arily paint still bottoms aste ultimate disposal sites of solid	Description of Storage Location Hazardous Waste Storage Building Onsite permitted landfill or liquid waste by-products (such as sludges) from	with
Description of Waste Small quantities of hazardous waste, prima Non-hazardous solid waste Provide a description of the location of the wastewater treatment system located at the formula specific properties of waste and specific provided as the formula specific	arily paint still bottoms aste ultimate disposal sites of solid facility. Quantity (lbs/day)	Description of Storage Location Hazardous Waste Storage Building Onsite permitted landfill or liquid waste by-products (such as sludges) from Disposal Method*	any
Description of Waste Small quantities of hazardous waste, prime Non-hazardous solid was Provide a description of the location of the wastewater treatment system located at the formula of the system of Waste See Attachment 5	arily paint still bottoms aste ultimate disposal sites of solid facility. Quantity (lbs/day)	Description of Storage Location Hazardous Waste Storage Building Onsite permitted landfill or liquid waste by-products (such as sludges) from Disposal Method*	any
Description of Waste Small quantities of hazardous waste, prima Non-hazardous solid waste Provide a description of the location of the wastewater treatment system located at the formula specific properties of waste and specific provided as the formula specific	arily paint still bottoms aste ultimate disposal sites of solid facility. Quantity (lbs/day) re disposed of at an off-site traced waste treatment facility, in	Description of Storage Location Hazardous Waste Storage Building Onsite permitted landfill or liquid waste by-products (such as sludges) from Disposal Method*	any
Description of Waste Small quantities of hazardous waste, prime Non-hazardous solid was Provide a description of the location of the wastewater treatment system located at the final description of Waste See Attachment 5 *Indicate which wastes identified above as any wastes are sent to an off-site centralians. SECTION F – COASTAL ZONE INFORMAT	arily paint still bottoms aste ultimate disposal sites of solid facility. Quantity (lbs/day) re disposed of at an off-site traced waste treatment facility, ice	Description of Storage Location Hazardous Waste Storage Building Onsite permitted landfill or liquid waste by-products (such as sludges) from Disposal Method*	any
Description of Waste Small quantities of hazardous waste, prime Non-hazardous solid was Provide a description of the location of the wastewater treatment system located at the final description of Waste See Attachment 5 *Indicate which wastes identified above as any wastes are sent to an off-site centralians. SECTION F – COASTAL ZONE INFORMAT	arily paint still bottoms aste ultimate disposal sites of solid facility. Quantity (lbs/day) re disposed of at an off-site traced waste treatment facility, ice	Description of Storage Location Hazardous Waste Storage Building Onsite permitted landfill or liquid waste by-products (such as sludges) from Disposal Method* eatment facility and which are disposed of on-site. Itentify the waste and the facility.	any
Description of Waste Small quantities of hazardous waste, prime Non-hazardous solid waste Provide a description of the location of the wastewater treatment system located at the formula of the system located at the formula of the system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the wastewater treatment system located at the formula of the formula of the formula of the wastewater treatment system located at the formula of	arily paint still bottoms aste ultimate disposal sites of solidifacility. Quantity (lbs/day) re disposed of at an off-site traced waste treatment facility, ice	Description of Storage Location Hazardous Waste Storage Building Onsite permitted landfill or liquid waste by-products (such as sludges) from Disposal Method* Patternet facility and which are disposed of on-site. It lentify the waste and the facility.	any
Description of Waste Small quantities of hazardous waste, prime Non-hazardous solid waste Provide a description of the location of the wastewater treatment system located at the final description of Waste Description of Waste See Attachment 5 *Indicate which wastes identified above as any wastes are sent to an off-site centralians SECTION F - COASTAL ZONE INFORMAT Is the discharge(s) located within the 10- If yes, complete items F.1 - F.12: 1. Does the project require new cons	arily paint still bottoms aste ultimate disposal sites of solid facility. Quantity (lbs/day) re disposed of at an off-site trized waste treatment facility, in the control of the contr	Description of Storage Location Hazardous Waste Storage Building Onsite permitted landfill d or liquid waste by-products (such as sludges) from Disposal Method* Pattern of Storage Building Onsite permitted landfill d or liquid waste by-products (such as sludges) from Disposal Method* Pattern of Storage Location Disposal Building Onsite permitted landfill Disposal Method*	any

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	3.	Does the project involve dredging and/or filling of a wetland area or water way? N/A	<u>Yes</u> □	<u>No</u> □
		If Yes, has the Corps of Engineers (COE) permit been received? N/A		
)		COE Project No. N/A	Ы	
	4.	Does the project involve wetlands and/or submersed grassbeds? N/A		
	5.	Are oyster reefs located near the project site? N/A		
		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. 335-8-102(bb)? NA		
	7.	Does the project involve mitigation of shoreline or coastal area erosion? N/A		
	8.	Does the project involve construction on beaches or dune areas? N/A		
	9.	Will the project interfere with public access to coastal waters? N/A		
	10	. Does the project lie within the 100-year floodplain? N/A		
	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? .MA		
	SECTIO	N G ANTI-DEGRADATION EVALUATION		
	provided	dance with 40 CFR §131.12 and the ADEM Admin. Code r. 335-6-1004 for anti-degradation, the following informands. It is the applicant's responsibility to demonstrate the social and economic importance of the propertion is required to make this demonstration, attach additional sheets to the application.	mation i posed ac	must be ctivity. I
`		s a new or increased discharge that began after April 3, 1991? Yes No complete G.2 below. If no, go to Section H.		
)		an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increas enced in G.1? Yes No	sed disc	harge
	335-	s, do not complete this section. If no, and the discharge is to a Tier II waterbody as defined in ADEM . 3-1012(4), complete G.2.A – G.2.F below and ADEM Forms 311 and 313 (attached). ADEM Form 313 must alternative considered technically viable.		
	Infon	nation required for new or increased discharges to high quality waters:		
	A.	What environmental or public health problem will the discharger be correcting?		
		N/A		
	В.	How much will the discharger be increasing employment (at its existing facility or as the result of locating a new	facility)	?
		N/A		
	C.	How much reduction in employment will the discharger be avoiding?		
		N/A		
	D.	How much additional state or local taxes will the discharger be paying?		
		N/A		
	E.	What public service to the community will the discharger be providing?		
\		N/A		
)	F.	What economic or social benefit will the discharger be providing to the community?		
		N/A		

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SECTION I	H - EPA	Application	Forms
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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.
- Applicants for existing industrial facilities (including manufacturing facilities, commercial facilities, mining activities, and silvicultural activities) which discharge process wastewater must submit Form 2C.
- Applicants for new industrial facilities which propose to discharge process wastewater must submit Form 2D.
- 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?*
001	Alabama River	☐ Yes ■No	☐ Yes ■No
002	Alabama River	☐ Yes ■No	☐ Yes ■No
003	Autauga Creek	☐ Yes ■No	☐ Yes ■No
	y	☐ 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.

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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: Carl Sunto Date Signed: 9/19/18 Name and Title: Carl Gunter - Mill Manager					
	pplication is <u>not</u> identified in Section A.7, provide th	ne 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.

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ADEM Form 187 Attachment 1 - International Paper, Prattville Mill

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

Permit Name	Permit Number	Facility
NPDES	AL0003115	IP Prattville Mill
Title V Permit	201-0001	Prattville Mill
5tate of Alabama Industrial Landfill	01-05	Prattville Mill
State of Alabama Drinking Water	PWSID #0000021	Prattville Mill
Other Permits Held by Applicant		
NPDES	AL0003018	IP Riverdale Mill
NPDES	ALR10BDV2	IP Riverdale Mill
NPDES	AL0000396	IP Courtland Mill
NPDES	AL0002674	IP Pine Hill Mill
NPDES	ALG060346	IP Bay Minette Container
NPDES	ALG060177	IP Decatur Container
NPDES	ALG060080	IP Riverdale Woodyard
NPDES	ALG060242	IP Huntsville
Major Source Operating Permit	104-0003	IP Riverdale Mill
Major Source Operating Permit	109-0001	IP Pine Hill Mill
Synthetic Minor Operating Permit	501-0006	IP Bay Minette Container
Major Source Operating Permit	707-0001	IP Courtland Mill
State of Alabama Industrial Landfill	66-02	IP Pine Hill Mill
State of Alabama Industrial Landfill	40-051	IP Courtland Mill
State of Alabama Industrial Landfill	40-09	IP Courtland Mill
State of Alabama Industrial Landfill	24-06	IP Riverdale Mill

ADEM Form 187 Attachment 2 - International Paper, Prattville Mill

For Categorical Users: Provide the wastewater discharge flows or production (whichever is applicable by the effluent guidelines) for each of your processes or proposed process. Using the process flow schematic, enter the description that corresponds to each process.

2a.

Regulated Process	Applicable Category	Applicable Subpart	Type of Discharge Flow
Unbleached Kraft Linerboard Production	The Pulp, Paper, and Paperboard Point Source Category	40 CFR 430.32 - Subpart C Unbleached Kraft	Continuous
Unbleached Linerboard Production from Old Corrugated Container Pulp	The Pulp, Paper, and Paperboard Point Source Category	40 CFR 430.102 - Subpart J Secondary Fiber Nondeink	Continuous

2b.

Process Description	Last 12 Months Highest Monthly Average 1,000 lbs/day	Highest Year of Last 5 Monthly Average 1,000 lbs/day	Discharge Type
Unbleached Kraft Production from Wood Pulp PM1	3,789 (1,894 ADT/d)	3,674 (1,837 ADT/d)	Continuous
Unbleached Kraft Production from Wood Pulp PM2	3,188 (1,594 ADT/d)	2,486 (1,243 ADT/d)	Continuous
Unbleached Production from Old Corrugated Container Pulp PM1	624 (312 ADT/d)	710.7 (355.4 ADT/d)	Continuous
Unbleached Production from Old Corrugated Container Pulp PM2	704.5 (352.3 ADT/d)	445 (222 ADT/d)	Continuous

ADEM Form 187 Attachment 3 - International Paper, Prattville Mill Section C, Item 6 List the trade name and chemical composition of all biocide and corrosion inhibitors used

Trade Name	EPA Registration Number	Quantity to be Used (lbs/year)	Frequency of Use	Chemical Composition (%)	96-hour Median Tolerance Limit	Proposed Discharge Concentration	
		Oscu (ibs/year)	OI OSE	Sodium Nitrite (15-20)	Tolerance Limit	Concentration	
Drewguard 2808	NA.	10,500	continuous	Inorganic Salt (5-10)	LCS0 = 1250 mg/l; no effect	No detectable discharge	
				Sodium Hydroxide (1-1.5)	fevel = 500 mg/l	projected.	
Amersite 2215	NA.	10,000	continuous	Hydroquinone (1,4 - benzenediol) (15.0-20)	LC50 = 134 mg/l; no effect	No constituents listed in Form 2C; no detectable discharge	
7417070110 2220		20,000	Continuous	Diethylhydroxylamine (1,0-1,5)	level = 26 mg/l	projected.	
				Diethymydioxylaninie [1,0-1,5]		No constituents listed in For	
Amercor 8682	NA	10,000	continuous	Amine (20-40)	LC50 = 147 mg/l; no effect level = 5 mg/l	2C; no detectable discharge projected.	
Drewsperse 6910	NA	60,000	continuous	Acrylic Copolymer (40-50)	no aquatic toxicology data available	No constituents listed in Fore 2C; no detectable discharge	
				Maleic Acid (10-15)		projected.	
Amertrol HT1016	NA	88,000	continuous	Amine (0.45)	LCS0 = 500 mg/l; no effect level = 10 mg/l	No constituents listed in Form 2C; no detectable discharge	
				Salt (5.65)	70401 - 20 Mig/1	projected.	
Amertrol HT4558	NA	88,000	continuous	Salt (1-5)	no aquatic toxicology data available	No constituents listed in Forr 2C; no detectable discharge projected.	
				Alƙaline (1-5)			
Amertrol HPD9970	NA	500	Every 7 Years	Sodium Hydroxide (1-1.5)	no aquatic toxicology data avallable	No constituents listed in Forn 2C; no detectable discharge projected.	
Biosperse CX9110	NA	33,000	continuous	Halgenated Complex (18)	LC50 =3.8 mg/l; no effect level = 2.6 mg/l	No constituents listed in Form 2C; no detectable discharge	
				Sodium Hydroxide (10)	- 2.0 mg/	projected.	
				2-Bromo-2-Nitro-1,3-Propanediol (5.5)			
Biosperse CN7539	NA	14,000	continuous	5-Chloro-2-Methyl-4-Isothiazolin-3-One (1.9)	LC50 =35 mg/l; no effect level = .08 mg/l	No constituents listed in Form 2C; no detectable discharge	
				Magnesium Chloride (1-5)	- 100 111 221	projected.	
				2-Methyl-4-Isothiszolin-3-One (0.68)			
				Inorganic salt (5-10)		No constituents listed in Forn	
Performax MX2202	NA	250	continuous	Triazole (5-10)	no aquatic toxicology data available	2C; no detectable discharge projected.	
Drewsperse 7130	NA	250	continuous	Ammonium Chloride Solution (20-30)	no aquatic toxicology data available	No constituents listed in Form 2C; no detectable discharge	
				Alcohol (1-5)		projected.	
Millsperse 955	NA	101,000	continuous	Zinc Chloride (50-60)	LC50 = 6.2mg/l; no effect level = 0.625 mg/l	<0.1 ppm as total zinc based on previous effluent analyses during usage.	
Millsperse 8369	NA	38,000	continuous	none	LC50 = 1960 mg/l; no effect eve! = 313 mg/l	No constituents listed in Form 2C; no detectable discharge projected.	
Drewgard 120	NA	35,000	continuous	Inorganic Salt (60-70)	LC50 = 100 mg/l; no effect level = 50 mg/l	No constituents listed in Form 2C; no detectable discharge projected.	
Spectrum RX3100				Dodecylguanidine Hydrochloride (10-15)	1550 - 25	No constituents listed in Form	
Microbicide	NA	11,000	daily	Methylene Bis(Thlocyanate) (5-10)	LCS0 = 2.7 mg/l; no effect level = 0.14 mg/l	2C; no detectable discharge projected.	
				Isopropanol (1-5)			
Biosperse CX3195	NA	20,000	continuous	Ammonium Carbamate (15-20)	no aquatic toxicology data available	No constituents listed in Form 2C; no detectable discharge projected.	
SP6650 Couch Roll Corrosion Inhibitor	NA	23,000	continuous	Sodium 2-mercaptobenzothiazole (6)	LC50 = 123 mg/l; no effect level = 58 mg/l	No constituents listed in Form 2C; no detectable discharge projected.	

ADEM Form 187 Attachment 4 - International Paper, Prattville Mill Section D, Water Supply

The Prattville Mill has five production wells from which it draws ground water. There are no accurate flow-measuring devices on the pumps and the wells are all in close proximity to each other, so estimated water consumption is reported as Wells 1, 2, 3, 4 and 5 combined.

Estimated combined intake consumption: 1.80 MGD.

Well <u>No. 1</u>	Well Depth: 356 ft.	Latitude <u>32°25′11"</u>	Longitude <u>86° 28′43″</u>
Well <u>No. 2</u>	Well Depth: 360 ft.	Latitude <u>32°25'13"</u>	Longitude <u>86°28′17″</u>
Well <u>No. 3</u>	Well Depth: 340 ft.	Latitude <u>32°24′54"</u>	Longitude <u>86° 28′06″</u>
Well <u>No. 4</u>	Well Depth: 380 ft.	Latitude <u>32°24′51″</u>	Longitude <u>86°28′43″</u>
Well <u>No. 5</u>	Well Depth: 381 ft.	Latitude <u>32° 24′39″</u>	Longitude <u>86° 29′56″</u>

ADEM Form 187 Attachment 5 - International Paper, Prattville Mill Section E, Waste Storage and Disposal Information

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	Description of Disposal
Primary Clarifier Sludge	12,000 tons/year – estimated	Sludge removed from the primary clarifier is typically recycled back in the process.
Sludge from other Effluent Treatment System Basins	Varies	Sludge removed from other Effluent Treatment System Basins (including the Emergency Holding Pond) has been disposed of or reused in numerous ways. In the past, these have included transferring to inactive portions of the Effluent Treatment System. Options for future dispositioning of sludge may include its use as an agricultural soil enhancement for onsite fields or other beneficial use projects.
Debris collected on Effluent Treatment System Bar Screens	20 Cubic Yards/day – estimated	Debris collected on bar screens is placed into dumpsters and then placed in the Mill's on-site industrial landfill.

FORM	type in the unshaded		ONME	NTAI	PROTECT	ION AGENCY	Form Approved, OMB No. 2040-0	NOO.			
1	ŞEPA	GENERAL INFORMATION Consolidated Permits Program (Pend the "Connections" before stration)				I. EPA I.D. NUMBER			TIA	C	
	VEIA								D		
GENERAL		(Aedd the	Gener	ui Insir	actions bej	ore starting.)	1 Z GENERAL INSTRU	ICTION	13	14	15
LABE	LITEMS						If a preprinted label has been designated space. Review the information	provide	ed, affi		
I. EPA I.D.	NUMBER						is incorrect, cross through it and er appropriate fill-in area below. Also, it	ter the	correc	data i	n th
III. FACILITY	NAME	PLEASE	PLA	CELA	BEL IN THI	S SPACE	is absent (the area to the left of information that should appear), plea	the la	bel spa	ice lists	s th
V FACILITY	MAULINO						fill-in area(s) below. If the label is need not complete Items I, III, V,	comple	te and	correct.	yo
ADDRES							must be completed items 1, III, V, a must be completed regardless). Co- has been provided. Refer to the ins descriptions and for the legal author	mplete struction	all item	s if no detailed	labe
VI. FACILITY							data is collected.		,		
	CHARACTERISTIC		÷								
submit this for you answer "n	m and the suppleme o" to each question,	ental form listed in the pare	nthes	is follo	wing the qu s. You may	estion. Mark "X" in the bo answer "no" if your activit	s to the EPA. If you answer "yes" to a ox in the third column if the suppleme y is excluded from permit requirement	ntal for	rm is a	attache	ed. I
			YES	Mari	FORM			VF6	1	k "X"	
	SPECIFIC QUES		YES	NO	ATTACHED		CIFIC QUESTIONS	YES	NO	ATTAC	
		d treatment works which s of the U.S.? (FORM 2A)	16	X 17	18	include a concentra aquatic animal pro	acility (either existing or proposed) ated animal feeding operation or duction facility which results in a of the U.S.? (FORM 2B)	19	X 20	2'	1
		results in discharges to			7	D. Is this a proposed far	cility (other than those described in A				
	he U.S. other than t	those described in A or B	X		X		ill result in a discharge to waters of		X		
		at, store, or dispose of	22	23	24		inject at this facility industrial or	25	26	27	
	wastes? (FORM 3)	at, store, or dispose of		X		municipal effluent below the lowermost stratun containing, within one quarter mile of the well bore underground sources of drinking water? (FORM 4)			×		
G. Do you or w	rill you inject at this fa	acility any produced water	28	29	30	-	nject at this facility fluids for special	31	32	33	_
or other fluction of connection of inject fluids	fluids which are brought to the surface in with conventional oil or natural gas production, s used for enhanced recovery of oil or natural ject fluids for storage of liquid hydrocarbons?				×						
	y a proposed station	nary source which is one	34	35	36	I le this facility a pro	posed stationary source which is	37	38	39	
 Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect 			×		NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act			×	1		
	d in an attainment ar		40	41	42	and may affect or to (FORM 5)	be located in an attainment area?	43	44	49	
III. NAME OF	FACILITY					(1 O(M) 5)					
1 300 1	nternation			1-1-				1			
15 16 - 29 30 IV. FACILITY	CONTACT							69			- 2
IV. TAGILITY	CONTACT	A. NAME & TITLE (last,	first.	& title)			B. PHONE (area code & no.)				
c Towaru	Horno Env	ironmental Lead		TÍ			(334) 361-5038				
2 Jerry	HOLHE- Ellv	Tronmencar beau	<u>u</u>					55			
	AILING ADDRESS										
		A. STREET OR P.	O. BC	X							
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15 16							15				1
		B, CITY OR TOWN				C. STATE					
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Autauga **					1		70				
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CONTINUED FROM THE FRONT	
VII. SIC CODES (4-digit, in order of priority)	D OFFICENCE
A. FIRST 7 2631 (specify) Unbleached Kraft Linerboard Mill	B. SECOND C
C. THIRD	D. FOURTH
7 2861 (specify) Gum and Wood Chemicals (Tall Oil & Turpentine)	C (specify) NA (15 16 - 19
VIII. OPERATOR INFORMATION	
A. NAME 8 International Paper	B. Is the name listed in Item VIII-A also the owner? ✓ YES □ NO
C. STATUS OF OPERATOR (Enter the appropriate letter into the	ne answer box: if "Other," specify.) D. PHONE (area code & no.)
F = FEDERAL S = STATE P = PRIVATE M = PUBLIC (other than federal or state) D = OTHER (specify) 56	(specify) NA
E. STREET OR P.O. BOX 100 Jensen Road	
26	- 65
F. CITY OR TOWN B Prattville	G. STATE H. ZIP CODE IX. INDIAN LAND AL 36067 Is the facility located on Indian lands? WES INDIAN LAND State of the facility located on Indian lands? State of the facility located on Indian lands?
X. EXISTING ENVIRONMENTAL PERMITS	
	Emissions from Proposed Sources)
9 N AL0003115 9 P 201-06	001 Title V
B. UIC (Underground Injection of Fluids)	E. OTHER (specify)
9 U NA 9 01-05	(specify) State of Alabama Industrial Landfill
15 16 17 18 30 15 16 17 18 C. RCRA (Hazardous Wastes)	E. OTHER (specify)
CTICTI	#0000021 (specify) State of Alabama Drinking Water
15 16 17 18 30 15 16 17 18	30
XI. MAP	
	ne mile beyond property boundaries. The map must show the outline of the facility, the hof its hazardous waste treatment, storage, or disposal facilities, and each well where it is in the map area. See instructions for precise requirements.
XII. NATURE OF BUSINESS (provide a brief description)	
also produced from post-consumer waste paper. Pulp is	wood fat soaps (black liquor skimmings) and is shipped
1	
XIII. CERTIFICATION (see instructions)	
I certify under penalty of law that I have personally examined and am familiar with	the information submitted in this application and all attachments and that, based on my stained in the application, I believe that the information is true, accurate, and complete. I
am aware that there are significant penalties for submitting false information, include	
A. NAME & OFFICIAL TITLE (type or print) Carl Gunter, Mill Manager B. SIGNATUR	C. DATE SIGNED
Can	1 xmv
COMMENTS FOR OFFICIAL USE ONLY	

EPA 1.D. NUMBER (copy from Item 1 of Form 1)

Please print or type in the unshaded areas only.

ALD005557004

Form Approved. OMB No. 2040-0086. Approval expires 3-31-98.

2C **NPDES**



U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS Consolidated Permits Program

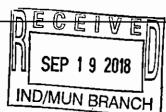
1. OUTFALL LOCATION	1						
For each outfall, list the	latitude and	longitude of it	ts location to t	he nearest 1	5 seconds an	d the name of	the receiving water.
A. OUTFALL NUMBER		B. LATITUDE		C. LONGITUDE			1
(list)	1, DEG,	2. M(N,	3. SEC.	1, DEG.	2. MIN,	3, SEC.	D. RECEIVING WATER (name)
DSN001	32.00	22.00	5.00	86.00	29.00	6.00	Alabama River
II. FLOWS, SOURCES (OF POLLUTI	ON, AND TR	EATMENT TE	CHNOLOGI	ES		

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if

DSN001 Steam Generat	PERATION (list)	b. AVERAGE FLOW		N LICT CO	
DSN001	ion/Chemical Recovery	(include units)	a. DESCRIPTION		DES FROM E 2C-1
	•	10 MGD	Mechanical Clarifier	1	U
Kraft Sulfate	Pulping	2 MGD	Emergency Holding Fond	1	Ū
Linerboard Fo	rmation	12 MGD	Mechanically Aerated Basin (ASB)	3	В
Secondary Fiber	(Waste Paper Conversion)	2 MGD	Naturally Aerated Basins	3	G
Woodyard		1.2 MGD	Ash Pond	1	Ū
Ash Sluice Sy	stem	2 MGD	Bar Screen	1	T
		_			
Operating Industri landfill Stormwa	rial Landfill Leachate & ter Runoff	intermittent			
Stormwater Ru	noff from:	intermittent			-
Production Ar	ea				
Clay Borrow P	it				
Closed Indust	rial landfill				
Woodyard		-			
Agricultural/	Silvicultural Lands				
		•			
			-		
					-
	_				

OFFICIAL USE ONLY (effluent guidelines sub-categories)

EPA Form 3510-2C (8-90)



ш		lete the follow	-	of the discharges d		NO (go to Sec						
					3. FRE	QUENCY			4. FLOW			
		2.00	COATION(A)		a. DAYS PER WEEK	b, MONTHS	a. FLOW RA	ATE (in med)		TAL VOLUME		
1. OUTFALL NUMBER (list)			PERATION(s) IBUTING FLOV (list)	~	(specify average)	PER YEAR (specify average)	1. LONG TERM AVERAGE		1. LONG TE AVERAG	RM 2, MAXIM		
I/A	N/A				n/A	N/A	N/A	n/A	N/A	N/A	N/A	
	uent guideli	_ ne limitation		by EPA under Se	ction 304 of t	he Clean Water		ur facility?				
3. Are the limit	ations in the		effluent guide	eline expressed in	terms of prod	luction (or other	measure of ope	eration)?		•		
C. If you answ	ered "yes" t	o Item III-B,	list the quar	tity which represe	nts an actual	NO (go to Sec		production, ex	pressed in	he terms and	units used in th	
applicable e	angerit guid	enne, and in		ected outfalls. /ERAGE DAILY PI	RODUCTION	<u> </u>			T _	AEEECTED O	LITEALLE	
a, QUANTITY	PER DAY	b. UNITS	OF MEASU		c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)				TERIAL, ETC. 2. AFFECTED OUTFALLS (list outfall numbers)			
,977 3,488)		1,000 lb (ADT/d)	o/day	Unbleach Pulp	ed Kraft I	Linerboard M	anufactured	from Wood	DSN001			
,415 708)	,	1,000 lb (ADT/d)	o/day			t Linerboard Manufactured from DSN001 prrugated Container Pulp						
V. IMPROVEM A. Are you no	w required	by any Fec	deral, State	or local authority	to meet any	implementation	schedule for t	the construction	on, upgradin	g or operation	is of wastewat t is not limited t	
permit cond	iitions, admi	nistrative or plete the follo	enforcement	orders, enforcem	ent compliang	ce schedule lette NO (go to Ite.	ers, stipulations,	court orders,	and grant or	loan condition	s.	
1. IDENTIFICA AGRE	TION OF C			FECTED OUTFAL		3. BRIEF	3. BRIEF DESCRIPTION OF PROJECT 4. FINA			IPLIANCE DAT		
			a. NO N/A	b. SOURCE OF DIS						a. REQUIRED	b. PROJECTE	
N/A			N/A			,,,				.,,	.,	

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

ALD005557004

CONTINE	IF-D	FROM	PACE	- 7

V. INTAKE AND EFFLUENT CHARACTE									
NOTE: Tables V-A, V-B, and	eding – Complete one set of tables for each or V-C are included on separate sheets numbere	ed V-1 through V-9.							
D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.									
1. POLLUTANT	2, SOURCE	1. POLLUTANT	2, SOURCE						
Acetaldehyde									
Aluminum Sulfate									
Carbon Disulfide	Kraft Sulfate Pulping Process. May be produced as a byproduct								
Cresol	during pulping and recovery								
Formaldehyde	processes.								
Hydrogen Sulfide									
Methyl Mercaptan									
Sodium Hydrosulfide									
Xylene									
'									
	Petroleum Coke, which contains								
Vanadium	small amounts of Vanadium, is burned as fuel in the No. 2								
	Lime Kiln.								
VI. POTENTIAL DISCHARGES NOT CO	,								
	ance or a component of a substance which you	u currently use or manufacture as an intern IO (go to Item VI-B)	nediate or final product or byproduct?						
YES (list all such pollutants	s detow)	O (go to ttem V1-B)	<u> </u>						
e e									
·		·							

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CONTINUE ON REVERSE

CONTINUED FROM THE FRONT VII. BIOLOGICAL TOXICITY TESTING DATA 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 3 years? NO (go to Section VIII) ✓ YES (identify the test(s) and describe their purposes below) Whole Effluent Toxicity (WET) testing has been performed annually on outfall DSN001 as specified in the facility's past and current NPDES permits. The testing program consists of a 48 hour acute toxicity test using 14% effluent concentration on both ceriodaphnia and fathead minnows. The purpose of the test is to demonstrate that treated effluent released from the facility into the Alabama River does not cause unacceptable levels of instream toxicity to aquatic life. All tests have demonstrated compliance with 90% survival rate. VIII. CONTRACT ANALYSIS INFORMATION Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm? NO (go to Section IX) YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below) C. TELEPHONE D. POLLUTANTS ANALYZED B. ADDRESS A. NAME (area code & no.) (list) (205) 345-0816 3516 Greensboro Avenue DMR Parameters TTL. Inc. Tuscaloosa, AL 35401 TestAmerica Laboratory 3355 McLemore Street (850) 474-1001 Application sampling Pensacola, FL 32514 parameters

IV	CERTIFICATION

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

A. NAME & OFFICIAL TITLE (type or print)	B. PHONE NO. (area code & no.)	
Carl Gunter- Mill Manager	(334) 361-5001	
C. SIGNATURE	D. DATE SIGNED 9/19/18	

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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)
ALD005557004

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

OUTFALL NO.

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.

				2. EFFLU	3. UN (specify ij		4. INTAKE (optional)					
	a. MAXIMUM DA	ALLY VALUE	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVR (if available	1.110.05			a. LONG TERM AVERAGE VALUE			
1. POLLUTANT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	70	18,470	52	12,273	28	6,786	788	mg/L	lb/d			
b. Chemical Oxygen Demand (COD)	160	50,707					1	mg/L	lb/d			
c. Total Organic Carbon (TOC)	24	7,606					1	mg/L	lb/d			
d. Total Suspended Solids (TSS)	144	43,344	80	22,634	46	11,062	702	mg/L	lb/d			
e. Ammonia (as N)	0.28	88.74					1	mg/L	lb/d			
f. Flow	VALUE 50		VALUE 41.09		VALUE 29.34		1,245	MGD	MGD	VALUE		
g. Temperature (winter)	VALUE		VALUE		VALUE			°C		VALUE		
h. Temperature (summer)	VALUE 30.1 VALUE 30.1		1	VALUE		1	°C		VALUE			
i, pH	MINIMUM 7 . 4	MAXIMUM 8.7	MINIMUM 7.4	MAXIMUM 8.4			541	STANDARI	D 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.

	2. MAI	RK "X"			3.	EFFLUENT	4. UNIT	rs	5. INTAKE (optional)					
1. POLLUTANT AND CAS NO.	a.	b.	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)					a. LONG TERM AVERAGE VALUE		1
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO, OF ANALYSES
a. Bromide (24959-67-9)		X	NA	NA						NA	NA	~-		
b. Chlorine, Total Residual		X	<0.01	<3.2		40 (44)			1	mg/L	lb/d			
c. Color	X		470	NA					1	C.U.	NA			
d. Fecal Coliform	X		230	NA	5.2				1	CFU/100 mL	NA			
e. Fluoride (16984-48-8)	X		0.082	26					1	mg/L	lb/d			
f. Nitrate-Nitrite (as N)	X		0.035	11.1				100	1	mg/L	lb/d			







ITEM V-B CONT	CONTINUED FROM FRONT 2. MARK "X" 3. EFFLUENT 4. UNITS											5, INTAKE (optional)				
	2. MAI	RK "X"			3, EFFLUENT b, MAXIMUM 30 DAY VALUE c. LONG TERM AVRG. VALUE							a. LONG TE	<u>", </u>			
1. POLLUTANT AND CAS NO.	a.	b	a. MAXIMUM DA	ILY VALUE	(if availa		(if availa	ble)	d, NO. OF	a. CONCEN-		AVERAGE V		b. NO. OF		
(if available)	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	N (2) MASS CONCENTRATION (2) MASS		(2) MASS	(1) CONCENTRATION (2) MASS		ANALYSES	TRATION	b. MASS	CONCENTRATION	(2) MASS	ANALYSES		
g. Nitrogen, Total Organic (as N)	\times		5.5	1,743					1	mg/L	lb/d					
h. Oil and Grease	X		1.7	539					1	mg/L	lb/d					
i. Phosphorus (as P), Total (7723-14-0)	\times		0.71	225				~~	1	mg/L	lb/đ					
j. Radioactivity														 		
(1) Alpha, Total	X		<0.141	NA					1	pCi/L	NA					
(2) Beta, Total	X		14.6	NA					1	pCi/L	NA					
(3) Radium, Total	X		<0.485	NA					1	pCi/L	NA					
(4) Radium 226, Total	X		0.862	NA					1	pCi/L	NA					
k, Sulfate (as SO ₄) (14808-79-8)	X		410	129,937					1	mg/L	lb/d					
I. Sulfide (as S)	X		0.52	165	~-				1	mg/L	lb/d					
m. Sulfite (as SO ₃) (14265-45-3)	X		<2.0	<0.634					1	mg/L	lb/d					
n, Surfactants	X		0.32	101					1	mg/L	lb/d					
o. Aluminum, Total (7429-90-5)	X		480	152					1	ug/L	lb/d					
p. Barium, Total (7440-39-3)	X		40	13					1	ug/L	lb/d					
q. Boron, Total (7440-42-8)	X		180	57					1	ug/L	lb/d					
r. Cobalt, Total (7440-48-4)	X		< 0.4	<0.127					1	ug/L	lb/d					
s. Iron, Total (7439-89-6)	X		<53	<16.797					1	ug/L	lb/d					
t. Magnesium, Total (7439-95-4)	\times		5,600	1,775					1	ug/L	lb/d					
u. Molybdenum, Total (7439-98-7)	X		1.1	0.35					1	ug/L	lb/d					
v. Manganese, Total (7439-96-5)	X		670	212					1	ug/L	lb/d					
w. Tin, Total (7440-31-5)	X		<1.1	<0.349					1	ug/L	lb/d					
x. Titanium, Total (7440-32-6)	X		3.3	1.045					1	ug/L	lb/d					

ı	EDALD NUMBER / A A A A	OUTEAU NUMBER
	EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
	ALD005557004	001

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 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 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 that pollutant which you know or have reason to believe that you discharge in concentrations of 10 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.

addition	al details ar	nd requirem	ents.	is expected to be	expected to be discharged. Note that there are / pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for 3. EFFLUENT 4. UNITS 5. INTAKE (optional)											
	2	2, MARK "X"			3, EFFLUENT								5. INTA	d)		
1. POLLUTANT AND CAS NUMBER	. a.	b.	С.	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		4 110 05	22.125.1		a, LONG TI AVERAGE V			
(if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a, CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES	
METALS, CYANIDE	E, AND TOT	TAL PHENC	LS				· ·									
1M. Antimony, Total (7440-36-0)	X		X	<1	<0.317			,		1	ug/L	lb/d				
2M. Arsenic, Total (7440-38-2)	X		X	<0.46	<0.146					1	ug/L	lb/d				
3M. Beryllium, Total (7440-41-7)	X		X	<0.34	<0.108					1	ug/L	lb/d				
4M. Cadmium, Total (7440-43-9)	X		X	<0.34	<0.108					1	ug/L	lb/d				
5M, Chromium, Total (7440-47-3)	X		X	<1.1	<0.349					1	ug/L	lb/d				
6M. Copper, Total (7440-50-8)	X		X	<2.1	<0.665					1	ug/L	lb/d				
7M. Lead, Total (7439-92-1)	X		X	<0.35	<0.111					1	ug/L	lb/d				
8M. Mercury, Total (7439-97-6)	X	_	X	<1	<0.316			1-		1	ng/L	lb/d				
9M. Nickel, Total (7440-02-0)	X	X	-	2.8	0.887					1	ug/L	lb/d				
10M. Selenium, Total (7782-49-2)	X	X		0.29	0.092					1	ug/L	lb/d				
11M. Silver, Total (7440-22-4)	X		X	<0.11	<0.035		1			1	ug/L	lb/d				
12M. Thallium, Total (7440-28-0)	X		X	<0.085	<0.027					-1	ug/L	lb/d				
13M, Zinc, Total (7440-66-6)	X	X		19	6.02					1	ug/L	lb/d				
14M. Cyanide, Total (57-12-5)	X		X	<0.0050	<2		<u>-</u> -			1	mg/L	lb/d				
15M. Phenols, Total	X		X	<0.0080	<2.5					1	mg/L	lb/d				
DIOXIN													'			
2,3,7,8-Tetra- chlorodibenzo-P- Dioxin (1764-01-6)	X		X	DESCRIBE RESU		on limit of 0.13	pg/L									







CONTINUED FROM THE FRONT

CONTINUED FROM			,			^ -	ECHIENT				4, UN	ITC	E INITA	KE (optiona	<u> </u>
1. POLLUTANT	1	, MARK "X"				b. MAXIMUM 30 [FFLUENT DAY VALUE	c, LONG TERM	AVRG	1	4, UN	113	a, LONG TI	<u></u> -	′ —
AND	a.	ь.	c.	a. MAXIMUM DAI	LY VALUE	(if availat		VALUE (if ava		d. NO. OF	a, CONCEN-		AVERAGE V		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION				- 3.102.1.11011.011	1-1	-311021111111111111111111111111111111111	(-)		(-,,					(-,	·
1V, Accrolein (107-02-8)	X		X	<10	<3.169					1	ug/L	lb/d			
2V. Acrylonitrile (107-13-1)	X		X	<2.8	<0.887					1	ug/L	lb/d			
3V. Benzene (71-43-2)	X		X	<0.38	<0.120					1	ug/L	lb/d			
4V. Bis (Chloro- methyl) Ether (542-88-1)	\times		X	<57	<18				~~	1	ug/L	lb/d			
5V. Bramaform (75-25-2)	X		X	<0.71	<0.225					1	ug/L	lb/d			
6V. Carbon Tetrachloride (56-23-5)	X		X	<0.50	<0.158					1	ug/L	lb/d			
7V. Chlorobenzene (108-90-7)	X		X	<0.50	<0.158	1	-	ga. ga.		1	ug/L	lb/d			
8V. Chlorodi- bromomethane (124-48-1)	X		X	<0.50	<0.158					1,	ug/L	lb/d			
9V. Chloroethane (75-00-3)	X		X	<0.76	<0.263					1	ug/L	lb/d			
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	X		X	<2.0	<0.634					1	ug/L	lb/d			
11V. Chloroform (67-66-3)	X		X	<0.60	<0.200					1	ug/L	lb/d			
12V. Dichloro- bromomethane (75-27-4)	X		X	<0.50	<0.158		1			1	ug/L	lb/d			
13V. Dichloro- difluoromethane (75-71-8)	X		X	<1.9	<3.169					1	ug/L	lb/d			
14V. 1,1-Dichloro- ethane (75-34-3)	X		X	<0.50	<0.158		-			1	ug/L	lb/d			
15V. 1,2-Dichloro- ethane (107-06-2)	X		X	<0.50	<0.158					-1	ug/L	lb/d			
16V. 1,1-Dichloro- ethylene (75-35-4)	X		X	<0.50	<0.158					1	ug/L	lb/d			
17V, 1,2-Dichloro- propane (78-87-5)	X		X	<0.50	<0.158					1	ug/L	lb/d			
18V. 1,3-Dichloro- propylene (542-75-6)	X		X	<0.50	<0.158					1	ug/L	lb/d			
19V. Ethylbenzene (100-41-4)	X		X	<0.50	<0.158					1	ug/L	lb/d			
20V. Methyl Bromide (74-83-9)	X		X	<0.98	<311					1.	ug/L	lb/d			
21V. Methyl Chloride (74-87-3)	X		X	<3.0	<0.951					1	ug/L	lb/d			







CONTINUED FROM PAGE V	D FROM PAGE V-4	CONTINUED FROM PAG	E V-4
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CONTINUED FROM						2.5	FFLUENT				4, UNI	TS	5. INTA	KE (optiona	1)
1. POLLUTANT	2	, MARK "X"	,			b. MAXIMUM 30 D		c. LONG TERM	AVRG.		<u> </u>		a, LONG TE	ERM	
AND	a,	b.	c.	a. MAXIMUM DAI	LY VALUE	(if availab		VALUE (if ava		4 10 05	a, CONCEN-		AVERAGE V	ALUE	b. NO. OF
CAS NUMBER	TESTING	BELIEVED	BELIEVED	(1)		(1)	(0) 144.00	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES		b. MASS	(1) CONCENTRATION	(2) MASS	ANALYSES
(if available) GC/MS FRACTION	REQUIRED	PRESENT	ABŞENT	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) WA33			-		(-,	
22V, Methylene	VOLATIL	E COMPO	UNDS (com			<u> </u>				1	ug/L	lb/d			
Chloride (75-09-2)	<u> </u>		X	<3.0	<0.951						ug/1		-		
23V. 1,1,2,2- Tetrachloroethane (79-34-5)	\times		X	<0.50	<0.158					1	ug/L	lb/d			
24V. Tetrachloro- ethylene (127-18-4)	\times		$\perp \times$	<0.58	<0.184					1	ug/L	lb/d			
25V. Toluene (108-88-3)	X		X	<0.70	<222		'			1	ug/L	lb/d			
26V. 1,2-Trans- Dichloroethylene (156-60-5)	\times		\times	<0.50	<0.158					1	ug/L	lb/d			
27V. 1,1,1-Trichloro- ethane (71-55-6)	X		X	<0.50	<0.158					1	ug/L	lb/d			
28V. 1,1,2-Trichloro- ethane (79-00-5)	X		X	<0.50	<0.158					1	ug/L	lb/d			
29V Trichloro- ethylene (79-01-6)	X		X	<0.50	<0.158					1	ug/L	lb/d			
30V. Trichloro- fluoromethane (75-69-4)	X		X	<0.52	<0.158					1	ug/L	lb/d			
31V. Vinyl Chloride (75-01-4)	X		X	<0.50	<0,158					1	ug/L	lb/d			
GC/MS FRACTION	-ACID CO	OMPOUND	S					,			-				т
1A. 2-Chlorophenol (95-57-8)	X		X	<13	<2.120					1	ug/L	lb/d			
2A, 2,4-Dichloro- phenol (120-83-2)	X		X	<17	<5.388	-,-				1	ug/L	lb/d	<u>' </u>		
3A. 2,4-Dimethyl- phenol (105-67-9)	X		X	<20	<6.338					1	ug/L	lb/d			
4A. 4,6-Dinitro-O- Cresol (534-52-1)	X		\times	<9.1	<2.884					1	ug/L	lb/d			
5A. 2.4-Dinitro- phenol (51-28-5)	X		X	<19	<6.021				<u></u>	1	ug/L	lb/d			
6A. 2-Nitrophenol (88-75-5)	1 X		X	<30	<9.507					1	ug/L	lb/d			
7A. 4-Nitrophenol (100-02-7)	X		X	<12	<3.803					1	ug/L	lb/d			
8A. P-Chloro-M- Cresol (59-50-7)	X		X	<22	<6.972					1	ug/L	lb/d			
9A. Pentachloro- phenol (87-86-5)	X		X	<8.0	<2.535					1	ug/L	lb/d			
10A. Phenol (108-95-2)	X		X	<15	<4.753					1	ug/L	lb/d			
11A. 2,4,6-Trichloro- phenol (88-05-2)	X		X	<20	<6.338					1	ug/L	lb/d			 N REVERSE







CONTINUED FROM THE FRONT

POLIUTANT AND A	b. NO. OF
AND CAS NUMBER (if analish) TESTING BLIEVED (if analish) TESTING (if analish) TESTING (if analish) TESTING FREEDURED FREESUT ABSENT CONCENTRATION 2) MASS 2, 0 NO. OF 1, 0 NO. OF	ANALYSE
GCMS FRACTION	ANALYSE
GC/MS FRACTION - BASEINEUTRAL COMPOUNDS 18. Acenaphthene	
(83-32-9)	
C208-96-8	
(120-127)	
(92-87-5) X 1.0 <34.86 1 ug/L lb/d	
Anthracene Seb. 56-3)	
Pyrene (50-32-8)	
Tug/L 1b/d	
Perylene (191-24-2) X X X X X X X X X	
Fluoranthene	
ethoxy) Methane (111-91-1) X <0.91 <0.288 1 ug/L lb/d 11B. Bis (2-Chloro-ethyl) Ether (111-44-4) X <15	
ethyl) Ether (111-44-4) X <15	
Chloroisopropy	
13B Bis (2.1/thu)	
hexyl) Phthalate X X <11 <3.486 1 ug/L lb/d	
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	
15B. Butyl Benzyl Phthalate (85-68-7) X < 1.1 <0.348 1 ug/L lb/d	
16B. 2-Chloro- naphthalene (91-58-7)	
17B. 4-Chloro- phenyl Phenyl Ether (7005-72-3) X <11 <3.486 1 ug/L lb/d	
18B. Chrysene (218-01-9) X <1.1 <0.348 1 ug/L lb/d	
19B. Dibenzo (a,h) Anthracene (53-70-3) X < 1.4 < 0.444 1 ug/L lb/d	
208. 1,2-Dichloro-benzene (95-50-1) X <0.97 <0.307 1 ug/L lb/d	
21B. 1,3-Di-chloro-benzene (541-73-1) X <1.0 <0.317 1 ug/L lb/d	







CONTINUED FROM											4 1151	TC -	E INTA	KE (optional	n
	2	2, MARK "X"	,				FFLUENT	LONG TERM	141/00		4, UN	.18	a. LONG T		"
1. POLLUTANT AND	a,	b.	C.	a. Maximum dai	LY VALUE	b. MAXIMUM 30 I (if availal		c, LONG TERM VALUE (if ava		d. NO. OF	a. CONCEN-		AVERAGE V		b. NO. OF
CAS NUMBER (if available)	TESTING REQUIRED		BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES		b, MASS	CONCENTRATION	(2) MASS	ANALYSES
GC/MS FRACTION	N-BASE/N	EUTRAL CO	OMPOUND	S (continued)											
22B. 1,4-Dichloro- benzene (106-46-7)	X		X	<0.91	<0.288				-	1	ug/L	lb/d			
23B. 3,3-Dichloro- benzidine (91-94-1)	X		X	<15	<4.75					1	ug/L	lb/d			
24B. Diethyl Phthalate (84-66-2)	X		X	<1.4	<0.444					1_	ug/L	lb/d			
25B, Dimethyl Phthalate (131 -11-3)	X		X	<0.97	<0.288					1	ug/L	lb/d			
26B. Di-N-Butyl Phthalate (84-74-2)	X		X	<15	<4.75					1	ug/L	1b/d			
27B, 2,4-Dinitro- toluene (121-14-2)	X		X	<11	<3.486					1	ug/L	lb/d			
28B, 2,6-Dinitro- toluene (606-20-2)	X		X	<11	<3.486					1	ug/L	lb/d			
29B, Di-N-Octyl Phthalate (117-84-0)	X		X	<0.97	<0.288					1	ug/L	lb/d			
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)	X		X	<5.7	<1.8					1	ug/L	lb/d			
31B, Fluoranthene (206-44-0)	\times		X	<1.0	<0.317					1	ug/L	lb/d			
32B, Fluorene (86-73-7)	\times		X	<1.0	<0.317					1	ug/L	lb/d			
33B, Hexachioro- benzene (118-74-1)	\times		X	<0.97	<0.288					1	ug/L	lb/d			-
34B. Hexachloro- butadiene (87-68-3)	X		X	<21	<6.65					1	ug/L	lb/d			
35B, Hexachioro- cyclopentadiene (77-47-4)	X		X	<15	<4.75					1	ug/L	lb/d			
36B Hexachloro- ethane (67-72-1)	X		X	<24	<7.61					1	ug/L	lb/d			
37B, Indeno (1,2,3-cd) Pyrene (193-39-5)	X		X	<1.3	<0.412		-:			1	ug/L	lb/d			
38B, Isophorone (78-59-1)	X		X	<0.80	<0.253					1	ug/L	lb/d			
39B. Naphthalene (91-20-3)	X		X	<0.97	<0.288					1	ug/L	lb/d			
40B, Nitrobenzene (98-95-3)	X		X	<0.74	<0.235					1	ug/L	lb/d			
41B, N-Nitro- sodimethylamine (62-75-9)	X		X	<20	<6.34					1	ug/L	lb/d			
42B. N-Nitrosodi- N-Propylamine (621-64-7)	\times		X	<1.0	<0.317					1	ug/L	lb/d			





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CONTINUED FROM		2. MARK "X"	•			3. E	FFLUENT			_	4, UN	ITS	5, INTA	KE (optiona	ıſ)
1. POLLUTANT AND	a,	ь.	c.	a. MAXIMUM DAI	LY VALUE	b. MAXIMUM 30 [(if availab	DAY VALUE	c, LONG TERM VALUE (if ava					a. LONG TI AVERAGE V	ERM	
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b, NO, OF ANALYSES
GC/MS FRACTION	- BASE/N	EUTRAL CO	MPOUND	S (continued)			, ,			<u>-</u>				(=,	<u>'</u>
43B. N-Nitro- sodiphenylamine (86-30-6)	X		X	<1.0	<0.317				1	1	ug/L	lb/d			
44B. Phenanthrene (85-01-8)	X		X	<1.0	<0.317					1	ug/L	lb/d			
45B. Pyrene (129-00-0)	X		X	<1.2	<0.380					1	ug/L	lb/d			
46B. 1,2,4-Tri- chlorobenzene (120-82-1)	X		X	<1.0	<0.317					1 ,	ug/L	lb/d			
GC/MS FRACTION	- PESTIC	IDES													•
1P. Aldrin (309-00-2)	X		X	<0.012	<0.004					1	ug/L	lb/d			
2P. α-BHC (319-84-6)	X		X	<0.015	<0.005					1	ug/L	lb/d			
3P. β-BHC (319-85-7)	X		X	<0.012	<0.004					1	ug/L	lb/d			
4P. γ-BHC (58-89-9)	X		X	<0.0086	<0.003					1	ug/L	lb/d			
5P. &-BHC (319-86-8)	X		X	<0.10	<0.032					1	ug/L	lb/d			
6P. Chlordane (57-74-9)	X		X	<0.53	<0.168					1	ug/L	lb/d			
7P. 4,4'-DDT (50-29-3)	X		X	<0.016	<0.005					1	ug/L	lb/d			
8P. 4,4'-DDE (72-55-9)	X		X	<0.0090	<0.003					1	ug/L	lb/d			
9P. 4,4'-DDD (72-54-8)	X		X	<0.012	<0.004					1	ug/L	lb/d			
10P. Dieldrin (60-57-1)	X		X	<0.012	<0.004					1	ug/L	lb/d			
11P. α-Enosulfan (115-29-7)	X		X	<0.012	<0.004		,			1	ug/L	lb/d			
12P. β-Endosulfan (115-29-7)	X		X	<0.030	<0.009					1	ug/L	lb/d			
13P. Endosuffan Suffate (1031-07-8)	X		X	<0.0086	<0.003					1	ug/L	lb/d			
14P, Endrin (72-20-8)	X		X	<0.012	<0.004					1	ug/L	lb/d			
15P. Endrin Aldehyde (7421-93-4)	X		X	<0.012	<0.004					1	ug/L	lb/d			-
16P. Heptachlor (76-44-8)	X		X	<0.01	<0.003					1	ug/L	lb/d			

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

OUTFALL NUMBER

ALD005557004

<1.2

<0.380

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001

lb/d

ug/L

1

CONTINUED FRO	M PAGE V-8	3				ALD	005557004		00	1	1.					
	2	. MARK "X'			-		3. E	FFLUENT				4. UN	ITS	5, INTA	KE (optiona	ıl)
1. POLLUTANT AND	a.	b.	c.		XIMUM DA	ILY VALUE	b. MAXIMUM 30 I (if availal		c. LONG TERN VALUE (if ava		1. NO. 05	20110511		a. LONG TI AVERAGE V		
CAS NUMBER (if available)	TESTING REQUIRED	BELIEVED PRESENT			(1) NTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	d, NO, OF ANALYSES	a. CONCEN- TRATION	b. MASS	(1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION	- PESTICI	DES (contin	ued)													_
17P, Heptachlor Epoxide (1024-57-3)	X		X	<0	.013	<0.004				1	1	ug/L	lb/d			
18P. PCB-1242 (53469-21-9)	X		X	<1	0.14	<0.048					1	ug/L	lb/d			
19P. PCB-1254 (11097-69-1)	X		X	<	0.23	<0.073					1	ug/L	lb/d			
20P. PCB-1221 (11104-28-2)	X		X	<	0.90	<0.285					1	ug/L	lb/d			
21P. PCB-1232 (11141-16-5)	X		X	<	0.41	<0.130					1	ug/L	lb/d			
22P. PCB-1248 (12672-29-6)	X		X	<0	.082	<0.026					1	ug/L	lb/d			
23P. PCB-1260 (11096-82-5)	X		X	<	0.63	<0.200					1	ug/L	lb/d			
24P. PCB-1016 (12674-11-2)	X		X	<	1.1	<0.348					1	ug/L	lb/d			

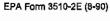
EPA Form 3510-2C (8-90)

25P. Toxaphene (8001-35-2)

PAGE V-9

PEPA Facilities Which Do Not Discharge Process Wastewater Necesiving Waters For this outfall, list the latitude and longitude, and name of the receiving water(s): Number (list)	For this outfall, list the latitude and longitude, and name of the receiving water(s). Countral Latitude Longitude* Receiving Water (name)	Please print or type	in the un:	shåded ar	reas only		EPA ID I ALD00	Vumber (55570	(copy from Item 1 of Form 1) 04	Form Approved, OMB No. 2040-0086. Approval expires 5-31-92.
For this outfall, list the latitude and longitude, and name of the receiving water(s): Outfall Latitude Longitude Receiving Water (name)	For this outfall, list the latitude and longitude, and name of the receiving water(s): Number (list)	2E 👂	EPA	Fa	cilit	ies V	Vhic	h D	o Not Discharg	e Process Wastewater
Number (list) Deg Min Sec Deg Min Sec DSN002 32 23 54 86 28 31 II. DISCHARGE DATE (If a new discharger, the date you expect to begin discharging) III. TYPE OF WASTE	Outfall Number (list) Deg Min Sec Deg Min	I. RECEIVING WA	TERS *							
Number (list) Deg Min Sec Deg Min Sec DSN002 32 23 54 86 28 31 II. DISCHARGE DATE (If a new discharger, the date you expect to begin discharging) III. TYPE OF WASTE A. Check the box(es) indicating the general type(s) of wastes discharged. Sanitary Wastes Restaurant or Cafeteria Wastes Moncontact Cooling Water Wastewater (identify) B. If any cooling water additives are used, list them here. Briefly describe their composition if this information is available. None used. IV. EFFLUENT CHARACTERISTICS A. Existing Sources Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions). B. New Dischargers — Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting	Number (list) Deg Min Sec Deg Min Sec DSN002 32 23 54 86 28 31 II. DISCHARGE DATE (II a new discharger, the date you expect to begin discharging) III. TYPE OF WASTE A. Check the box(es) indicating the general type(s) of wastes discharged. Granitary Wastes Restaurant or Cafeteria Wastes Noncontact Cooling Water Wastewater (Identify) B. If any cooling water additives are used, list them here. Briefly describe their composition if this information is available. None used. W. EFFLUENT CHARACTERISTICS A. Existing Sources — Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions). B. New Dischargers — Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting authority. Instead of the number of measurements taken, provide the source of estimated values (see Instructions).		F	or this	outfall	, list th	e latitu	ide an	d longitude, and name o	of the receiving water(s).
Deg Min Sec Deg Deg	Deg Min Sec Deg	m/s	**	Latitude			ongitud	le"	Receiving Water (name)	and the second section of the section o
III. DISCHARGE DATE (If a new discharger, the date you expect to begin discharging) III.TYPE OF WASTE A. Check the box(es) indicating the general type(s) of wastes discharged. Sanitary Wastes Restaurant or Cafeteria Wastes Noncontact Cooling Water Other Nonprocess Wastewater (identify) B. If any cooling water additives are used, list them here. Briefly describe their composition if this information is available. None used. IV. EFFLUENT CHARACTERISTICS A. Existing Sources — Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions). B. New Dischargers — Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting	III. DISCHARGE DATE (If a new discharger, the date you expect to begin discharging) III. DISCHARGE DATE (If a new discharger, the date you expect to begin discharging) III. TYPE OF WASTE A. Check the box(es) indicating the general type(s) of wastes discharged. III. Sanitary Wastes Restaurant or Cafeteria Wastes Noncontact Cooling Water Wastewater (Identity) B. If any cooling water additives are used, list them here. Briefly describe their composition if this information is available. None used. W. EFFLUENT CHARACTERISTICS A. Existing Sources — Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions).	Number (#st)	488		F K 7	-	s w	1	· ·	
III. DISCHARGE DATE (If a new discharger, the date you expect to begin discharging) III. TYPE OF WASTE A. Check the box(es) indicating the general type(s) of wastes discharged. Sanitary Wastes	III. TYPE OF WASTE A. Check the box(es) indicating the general type(s) of wastes discharged. Sanitary Wastes Restaurant or Cafeteria Wastes Noncontact Cooling Water Wastewater (Identify) B. If any cooling water additives are used, list them here. Briefly describe their composition if this information is available. We serial them here the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions). B. New Dischargers — Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority. Instead of the number of measurements taken, provide the source of estimated values (see instructions).	DCNOO2	33	22	54	96	26	. (1	Alabama River	
A. Check the box(es) indicating the general type(s) of wastes discharged. Sanitary Wastes Restaurant or Cafeteria Wastes Noncontact Cooling Water Other Nonprocess Wastewater (Identify)	A. Check the box(es) indicating the general type(s) of wastes discharged. Sanitary Wastes] 32	23	74]		
IV. EFFLUENT CHARACTERISTICS A. Existing Sources — Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions). B. New Dischargers — Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting	W. EFFLUENT CHARACTERISTICS A. Existing Sources — Provide measurements for the parameters listed in the left-hand column below, unless waived by the permitting authority (see instructions). B. New Dischargers — Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting authority. Instead of the number of measurements taken, provide the source of estimated values (see instructions).	A. Check the box(e	s) indica							
B. New Dischargers — Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting	B. New Dischargers — Provide estimates for the parameters listed in the left-hand column below, unless waived by the permitting authority. Instead of the number of measurements taken, provide the source of estimated values (see instructions).	None used. IV. EFFLUENT CH A. Existing So	ARACTI	ERISTIC	S. C.					
	Maximum Augrana Dally			- A	octima	tes for ti	ne narar	neters li	isted in the left-hand column b	below unless waived by the permitting

	Maxi	num Value	Average	o Doilu		or) (4) *
Pollutant or Parameter	Daily (includ	Value e units)	Value (i (includ	ast year) e units)	Number of Measurements	Source of Estimat
	Mass	Concentration	Mass	Concentration	Taken (last year)	(ii iiew discriaryer
Biochemical Oxygen Demand (BOD)	30.85 lb/d	2.7 mg/L		-	1.00	
Total Suspended Solids (TSS)	57.1 lb/d	5.0 mg/L		-	1.00	
Fecal Coliform (if believed present or if sanitary waste is discharged)	NA	150 CFU/100mL			1.00	
Total Residual Chlorine (if chlorine is used)	0.114 lb/d	0.01 mg/L	1	1	1.00	
Oil and Grease	29.7 lb/d	2.6 mg/L			1.00	
*Chemical oxygen demand (COD)	148.5 lb/d	13 mg/L		-	1.00	
*Total organic carbon (TOC)	37.7 lb/d	3.3 mg/L			1.00	
Ammonía (as N)	<0.251 lb/d	<0.022 mg/L			1.00	~-
Discharge Flow	Value 3.8	mgd	2.22	mgd	56.00	
pH (give range)	Value 7.	64	-	-	1.00	
Temperature (Winter)		25.60 _{°C}		17.80 °C	28.00	
Temperature (Summer)		37.80 °C		31.10 °c	28.00	
*If noncontact cooling water is discha-		Ü n				
EPA Form 3510-2E (8-90)						Page 1 o





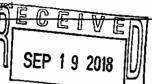
V. Except for leaks or spills, will the discharge described in this form be interm If yes, briefly describe the frequency of flow and duration.	Yes 2	☑ No
N/A		
VI. TREATMENT SYSTEM (Describe briefly any treatment system(s) used or to be u	sed)	
None.		
	ttention of the reviewer any other info	rmation you feel
VII. OTHER INFORMATION (Optional) Use the space below to expand upon any of the above questions or to bring to the a should be considered in establishing permit limitations. Attach additional sheets, if n		rmation you feel
Use the space below to expand upon any of the above questions or to bring to the a should be considered in establishing permit limitations. Attach additional sheets, if n		rmation you feel
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Use the space below to expand upon any of the above questions or to bring to the a should be considered in establishing permit limitations. Attach additional sheets, if n N/A		rmation you feel
Use the space below to expand upon any of the above questions or to bring to the a should be considered in establishing permit limitations. Attach additional sheets, if n N/A	ecessary.	
Use the space below to expand upon any of the above questions or to bring to the a should be considered in establishing permit limitations. Attach additional sheets, if n N/A VIII. CERTIFICATION I certify under penalty of law that this document and all attachments were preparate system designed to assure that qualified personnel properly gather and evaluate the	red under my direction or supervision information submitted. Based on my	n in accordance with a inquiry of the person or
Use the space below to expand upon any of the above questions or to bring to the a should be considered in establishing permit limitations. Attach additional sheets, if n N/A **N/A** **VIII. CERTIFICATION** I certify under penalty of law that this document and all attachments were prepared by system designed to assure that qualified personnel properly gather and evaluate the persons who manage the system, or those persons directly responsible for gatheria.	red under my direction or supervision information submitted. Based on my gifte information submitted information submitted information submitted information submitted.	n in accordance with a inquiry of the person or bmitted is to the best of
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Use the space below to expand upon any of the above questions or to bring to the a should be considered in establishing permit limitations. Attach additional sheets, if n N/A VIII. CERTIFICATION I certify under penalty of law that this document and all attachments were prepa system designed to a source that qualified personnel properly gather and evaluate the persons who manage the system, or those persons directly responsible for gathering knowledge and belief, true, accurate, and complete. I am aware that there are a the possibility of fine and imprisonment for knowing violations. A. Name & Official Title	red under my direction or supervision of information submitted. Based on my ag the information, the information submignificant penalties for submitting fals	n in accordance with a inquiry of the person or bruitted is to the best of se information, including B. Phone No. (area code & no.)
VIII. CERTIFICATION I certify under penalty of law that this document and all attachments were prepa system designed to assure that qualified personnel properly gather and evaluate the persons who manage the system, or those persons directly responsible for gatheric my knowledge and belief, true, accurate, and complete. I am aware that there are streepersons by fine and imprisonment for knowing violations. A. Name & Official Title Carl Gunter - Mill Manager	red under my direction or supervision information submitted. Based on my ag the information, the information suisignificant penalties for submitting fals	n in accordance with a inquiry of the person or bmitted is to the best of se information, including B. Phone No. (area code & no.) (334) 361-5001
Use the space below to expand upon any of the above questions or to bring to the a should be considered in establishing permit limitations. Attach additional sheets, if n N/A VIII. CERTIFICATION I certify under penalty of law that this document and all attachments were prepa system designed to a source that qualified personnel properly gather and evaluate the persons who manage the system, or those persons directly responsible for gathering knowledge and belief, true, accurate, and complete. I am aware that there are a the possibility of fine and imprisonment for knowing violations. A. Name & Official Title	red under my direction or supervision information submitted. Based on my ag the information, the information suisignificant penalties for submitting fals	n in accordance with a inquiry of the person or bruitted is to the best of the information, including B. Phone No. (area cod. & no.)

EPA Form 3510-2E (8-90)

Page 2 of 2

Please print or type	in the uns	haded ar	eas only.		EPA ID N ALD00		copy from Item 1 of Form 1)		oved, OMB No. 2040- xpires 5-31-92.	0086
FORM 2E P	EPA	Fa	ciliti	es V	Vhic	h D	o Not Discharg	e Proces	s Wastew	/ater
I. RECEIVING WA	- G 15a3	Ē								
	F	or this	outfall	list th	e latitu	de an	d longitude, and name o	f the receiving	water(s).	
Outfall		Latitude		, * <u>* </u>	ongitud	9 Kai 35	Receiving Water (name)			
Number (list)	Deg	Min	Sec	Deg	Min	Sec	3		_	
DSN003	32	25	0	86	27	46	Autauga Creek			
II. DISCHARGE DA	TE (If a	new dis	charger,	the date	e you ex	pect to	begin discharging)			
III. TYPE OF WAST	E	3 ¹								
A. Check the box(e	s) indica	ting the	general	type(s)	of waste	s disch	arged.			
☐ Sanitary Wasi	tes	□ Re	staurant	or Cafe	teria Wa	stes	□ Noncontact Coo	oling Water	Other Nonprod Wastewater (f	
, ,	ter addit	ives are	used, li	st them	here, Br	iefly de	scribe their composition if this	information is ava	ailable.	
T			'						1	
wone usea.								_		
*non-contact	fire p	oump p	ressu	re re	lief w	ater	, mill supply pump s	eal water,	fire suppress	ion system
*non-contact	fire p	oump p	ressu	re re	lief w	ater	, mill supply pump s	eal water,	fire suppress	sion system
*non-contact	fire p	oump p	ressu	re re	lief w	ater	, mill supply pump s	eal water, i	fire suppress	sion system
*non-contact	fire <u>r</u>	oump p	ressu	re re	lief w	ater,	, mill supply pump s	eal water, i	fire suppress	ion system
*non-contact water	ARACTE	RISTIC	S					·		
water IV. EFFLUENT CH. A. Existing So	ARACTE	RISTIC Provide	S				, mill supply pump s	·		
*non-contact water IV.EFFLUENT CH. A. Existing So- authority (se-	ARACTE urces — e instruc rgers —	RISTIC Provide tions).	S měasů estima	rements	for the p	parame		mn belów, unless elow, unless walv	waived by the period	mitting
*non-contact water IV. EFFLUENT CH. A. Existing So authority (se B. New Discha	ARACTE urces — e instruc rgers — tead of t	RISTIC Provide tions).	S měasů estima	rements tes for the easurem	for the paraments tak	parame	ters listed in the left-hand column b sted in the left-hand column b vide the source of estimated v (2) Average D	mn belów, unless elow, unless waiv values <i>(see instru</i> e	waived by the permitting tions).	mitting
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*non-contact water IV. EFFLUENT CH. A. Existing Soluthority (see	ARACTE urces e instruc rgers dead of t	ERISTIC Provide tions). Provide he numi	S measu estima	rements tes for the easurem May Daily (includes	for the paraments tak (1) (mum Value de units)	oarame teters li ten, pro	ters listed in the left-hand column b sted in the left-hand column b vide the source of estimated v (2) Average D Value (last (include un on Mass	mn belów, unless elow, unless waiv values (see instruc ally year)	ed by the permitting ctions). (3) (0) Number of Measurements	mitting g (4) Source of Estimate

	Maxi	num	Averse	2) je Daily	(3) (0	n) (4)
Pollutant or ** Parameter		Value e units)	Value (/	ast year) e units)	Number of Measurements	Source of Estimate
	Mass	Concentration	Mass	Concentration 2	Taken (last year)	(if new discharger)
Biochemical Oxygen Demand (BOD)	0.457 lb/d	2.0 mg/L	1.09 lb/d	0.98 mg/L	5.00	
Total Suspended Solids (TSS)	2.14 lb/d	5.0 mg/L	1.60 lb/d	3.48 mg/L	5.00	-
Fecal Coliform (if believed present or if sanitary waste is discharged)	NA	80 CFU/100mL			1.00	-
Total Residual Chlorine (if chlorine is used)	0.005 lb/d	0.02 mg/L			1.00	
Oil and Grease	0.5 lb/d	2.0 mg/L			1.00	
*Chemical oxygen demand (COD)	<1.46 lb/d	<6.4 mg/L			1.00	
Total organic carbon (TOC)	0.91	4.0 mg/L			1.00	
Ammonia (as N)	<0.005 lb/d	<0.022 mg/L	-		1.00	
Discharge Flow	Value 0.08	mgd	0.06	mgd	4.00	
pH (give range)	Value 7.	47	-	-	1.00	~-
Temperature (Winter)		°C		°C		
Temperature (Summer)		27.10 _{°C}		°C	1.00	
*If noncontact cooling water is discha	IN E P F		_			
EPA Form 3510-2E (8-90)	DECET	A EUI				Page 1 of 2



V. Except for leaks or spills, will the discharge described in this form If yes, briefly describe the frequency of flow and duration.	be intermittent or seasonal?
I/A	
. TREATMENT SYSTEM (Describe briefly any treatment system(s) used	or to be used)
one.	
II. OTHER INFORMATION (Optional)	
Use the space below to expand upon any of the above questions or to bring should be considered in establishing permit limitations. Attach additional statements	ng to the attention of the reviewer any other information you feel
	nicets, il necessary.
//A	
III. CERTIFICATION	
I certify under penalty of law that this document and all attachments w system designed to assure that qualified personnel properly gather and e	valuate the information submitted. Based on my inquiry of the person o
persons who manage the system, or those persons directly responsible t	for gathering the information, the information submitted is to the best of
my knowledge and belief, true, accurate, and complete. I am aware that the possibility of fine and imprisonment for knowing violations.	there are significant penalties for submitting false information, including
. Name & Official Title	B. Phone No. (area co
	D. I. II. II. II. II. III. III. III. I
7 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	& no.)
arl Gunter - Mill Manager	
. Signature	& no.)
Carl Gunter - Mill Manager C. Signature	& no.) (334) 361-5001

EPA Form 3510-2E (8-90)

Page 2 of 2

Please print or type in the unshaded areas only.

FORM NPDES



U.S. Environmental Protection Agency Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

i. Outfall Location	п								
For each outfall, list	the latitude an	d longitude of its	location to the	ne nearest 15	seconds and	the name	of the receiving water	r.	
A. Outfall Number (list)		B. Latitude		C. l	_ongitude			D. Receiving Water (name)	
DSN001	32	22	05	86	29	06	Alabama River		
DSN003	32	25	00	86	27	46	Autauga Creek		
	$\Gamma \cdot \exists$						'		
II Improvements									

[l. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

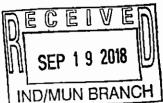
Identification of Conditions,		2. Affected Outfalls		4. F Complia	4. Final Compliance Date	
Identification of Conditions, Agreements, Etc.	number source of discharge		Brief Description of Project	a. req.	b. proj.	
None	1		· ·			
	T					
<u>_</u>						

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

EPA Form 3510-2F (1-92)



Continue on Page 2

Can	tinued	fram	tha	Eront

V. Na	rrative	Description	of P	ollutant	Sources
-------	---------	-------------	------	----------	---------

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate	of the total surface area
drained by the outfall.	

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
DSN001	400 Acres	3,400 Acres	DSN003	7 Acres	70 Acres

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

See Form 2F Attachment 1

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
OSN001	See Form 2F Attachment 2	1T, 1U, 3B, 3G
DSN003	See Form 2F Attachment 2	4A

V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

Name and Official Title (type or print)

Carl Gunter, Mill Manager

Carl Gunter, Mill Manager

Onto Signature

Date Signed

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Both outfalls covered by this application are known to include non-storm water discharges. An accompanying Form 2C is submitted for DSN001 and Form 2E for DSN003. These outfalls were observed during dry weather on April 26, 2018 to confirm only the identified non-stormwater discharges were contributing flow.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

None.

Continued from Page 2

EPA ID Number (copy from Item 1 of Form 1) ALD005557004

VII. Discharge Information			
	re proceeding. Complete one set of tables for each I-C are included on separate sheets numbers VII-1		space provided.
E. Potential discharges not covered currently use or manufacture as a	by analysis – is any toxic pollutant listed in tab an intermediate or final product or byproduct?	<u> </u>	component of a substance which you
Yes (list all such pollut	ants below)	✓ No (go to Section IX)	· · · · · · · · · · · · · · · · · · ·
IIII. Biological Toxicity Test Do you have any knowledge or reas	ing Data on to believe that any biological test for acute or c	hronic toxicity has been made on any of you	ur discharges or on a receiving water li
relation to your discharge within the		No (go to Section IX)	
✓ Yes (list all such pollute	ants below) ing tests have been performed annuall		by the gramant MDDDC
X. Contract Analysis Inform Were any of the analyses reported in	ation Item VII performed by a contract laboratory or co		
	lress, and telephone number of, and pollutants such laboratory or firm below)	No (go to Section X)	
A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
PTL, Inc.	3516 Greensboro Avenue Tuscaloosa, AL 35401	(205) 345-0816	DMR parameters
TestAmerica Laboratory	3355 McLemore Street Pensacola, FL 32514	(850) 474-1001	Application sampling parameters
K. Certification			
that qualified personnel properly gat directly responsible for gathering th	is document and all attachments were prepared under and evaluate the information submitted. Based e information, the information submitted is, to the information information, including the possibility of the possibility.	d on my inquiry of the person or persons wh e best of my knowledge and belief, true, ac	o manage the system or those person curate, and complete. I am aware the
A. Name & Official Title (Type Or Prin	t)	B. Area Code and Phone No.	
Carl Gunter, Mill Mana	ger	(334) 361-5001	
C. Signature		D. Date Signed	

D	S	N	0	ი:	3
	v		U	v	

EPA ID Number (copy from Item 1 of Form 1) ALD005557004 Form Approved. OMB No. 2040-0086 Approval expires 5-31-92

VII. Discharge information (Continued from page 3 of Form 2F)

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.

		num Values ude units)		erage Values aclude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	1.7 mg/L	N/A			1.00	Roads, Vehicles
Biological Oxygen Demand (BOD5)	2.0	3.3	0.98 mg/L		5.00	Bark pile, soil/clay, vegetation
Chemical Oxygen Demand (COD)	<6.4 mg/L	14 mg/L			1.00	Bark pile, soil/clay, vegetation
Total Suspended Solids (TSS)	5.0 mg/L	<3.2 mg/L	3.48 mg/L		5.00	Bark pile, soil/clay, vegetation
Total Nitrogen	<0.282 mg/L	<0.282 mg/L			1.00	Bark pile, soil/clay, vegetation
Total Phosphorus	0.099 mg/L	0.087 mg/L			1.00	Bark pile, soil/clay, vegetation
рН	Minimum 7.11	Maximum 7.11	Minimum	Maximum	1.00	NA .

Part B – List each pollutant that is limited in an effluent guideline which 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.

	(inclue	ım Values de units)	Aver (inc	age Values lude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollulants
NA						
			<u> </u>		 	
			 		 	
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Continued from the Front

DSN003

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall. Average Values Maximum Values (include units) Number (include units) Pollutant Grab Sample Grab Sample of Storm and Taken During Taken During CAS Number Flow-Weighted Events First 20 Flow-Weighted First 20 (if available) Sampled Sources of Pollutants Minutes Minutes Composite Composite Mill Process Water Treatment Area Fluoride <0.082 mg/L <0.082 mg/L 1.00 1.00 Pulp&Paper Operations, Soil Erosion Sulfate 6.7 mg/L 6.8 mg/L Color 1.00 Bark Pile, Soil/Clay, Vegetation 30 C.U. 39 C.U. 1.00 Pulp&Paper Operations, Soil Erosion 62 ug/L Aluminum, T 170 ug/L 1.00 Pulp&Paper Operations, Soil Erosion Iron, T 510 ug/L 160 ug/L 4,500 ug/L 1.00 Pulp&Paper Operations, Soil Erosion Magnesium, T 4,700 ug/L 1.00 Pulp&Paper Operations, Soil Erosion Zinc, T 40 ug/L 24 ug/L <0.032 mg/L <0.032 mg/L 1.00 Mill Process Water Treatment Area Surfactant Ammonia <0.022 <0.022 1.00 Pulp & Paper Operations 1.00 Pulp & Paper Operations Nitrate + Nitrite 0.12 mg/L 0.12 mg/L 1.00 TKN <0.26 mg/L Pulp & Paper Operations <0.26 mg/L 1.00 Pulp&Paper Operations, Soil Erosion Manganese 46 ug/L 26 ug/L 1.00 0.05 mg/L NA Mill Process Water Treatment Area 1.00 Fecal 300 CFU/100mL NA --Waterfowl and Animal Waste 1.00 Pulp & Paper Operations Sulfite <2.0 mg/L <2.0 mg/L Bark Pile, Soil Erosion 34 ug/L 31 ug/L 1.00 Barium, T Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample. Part D -4, 5. 1. Number of hours between Maximum flow rate during beginning of storm measured Total flow from Duration Total rainfall rain event Date of (gallons/minute or rain event during storm event and end of previous of Storm Event Storm measurable rain event specify units) (gallons or specify units) (in minutes) (in inches) Event 110 gpm 17,073 gallons 07/31/2018 0.12 inches >72 hours 3 hours 7. Provide a description of the method of flow measurement or estimate Parshall flume weir measurements recorded during storm event.

EPA Form 2F, Attachment 1

Item IV

B-Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow expasure to storm water; method of treatment, storage, or disposol; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the lacation, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied

The materials stored onsite are kept in covered containers, such as a covered tank, preventing exposure to storm water. Any leaks or spills which might occur from these containers drain to diked areas or to the effluent treatment system.

Included with this application is a map which identifies storage areas and materials loading/access areas. Spill prevention practices are implemented at loading/unloading areas, and these areas are either diked or drain to the Effluent Treatment System.

A discussion of pesticide, herbicide, soil conditioner, and fertilizer use is given below. A facility map with application areas marked has been included to augment the narrative description.

Herbicides are sprayed on the lawns and shrubs once during the early spring and late fall, and as needed. Weed control chemicals are sprayed along fence line, gates and ditches as needed.

During the summer months it is necessary to control mosquitoes in the immediate area of the mill proper. The insecticide is sprayed with a truck mounted fogger. Mosquito control briquettes may also be utilized within the mill. The frequency of application is dependent upon need, with weather a major influencing factor. Other insecticides are generally applied twice per year or as needed.

Fertilizer is broadcast onto the lawns and shrub beds approximately three times each year.

Agricultural Chemicals

The International Paper, Prattville Mill facility covers 6,263 acres, with approximately 700 acres leased for agricultural purposes. The independent companies which lease this property farm a combination of cotton, soybeans, grain sorghum, bahia, and field com, with crops rotated occasionally. Runoff from approximately 55% of this acreage drains into the mill's effluent treatment system and is discharged through permitted Outfall 001, while approximately 15% could runoff through Outfalls 002 or 003. Runoff from the remainder of this acreage remains segregated from runoff from the areas associated with industrial activity and is exempt from the storm water permitting regulations (40 CFR 122.26). It is standard practice in the agricultural community to use a wide variety of chemicals to improve crop performance. The farmlands on International Paper property are managed similarly to any other agricultural property in this area of Alabama. A summary of the typical types of applications used on International Paper, Prattville Mill property in recent years is given below.

Cotton Fields:

Anhydrous Ammonia	One application before planting	6-10" in ground with chisel plow apparatus
Fertilizer	One application before planting	6-10" in ground with chisel plow apparatus
Herbicide	One application before planting	Sprayed onto soil from tractor
Fungicide	One application before planting	Placed in furrow with seed
Insecticide	One application before planting	Placed in furrow with seed
Herbicide	One application at planting	Sprayed onto soil from tractor
Herbicides	Two chemicals applied twice when plowing	Sprayed onto soil from tractor
Insecticides	Applied often during growing season	Sprayed from air
Growth Regulator	Applied twice on some fields	Sprayed from air
Defoliant	Applied at end of growing season	Sprayed from air

Grain sorghum and corn fields:

Anhydrous Ammonia		6-10" in ground with chisel plow apparatus
Fertilizer		6-10" in ground with chisel plow
Herbicide	Annlication after germination	Sprayed onto soil from tractor

Silvicultural Chemicals

Approximately 26% of the 6,263 acres at the International paper, Prattville Mill facility is being utilized as silvicultural land to support the company's timber needs. Best management practices are followed and include the application of herbicides as needed. An herbicide is sprayed onto the area to be managed prior to or at the time of planting. Fencerows and management area perimeters are also treated with an herbicide spray as needed to control unwanted growth. Single trees on hedgerows may have herbicide injected into a cut to selectively cull undesirable trees.

EPA Form 2F Attachment 2

Item IV

C - For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pallutants in storm water runaff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

DSN 001

Structural and nonstructural control measures: The facility operating departments are continually monitoring tanks for the presence of leaks through visual inspections and tank level measurements. Several tanks are equipped with remote level indicators and alarms to alert personnel if unusual level changes occur. In addition, the mill has an oil spill prevention, control, and countermeasure plan which includes inspection of all oil-containing tanks for leaks and spills. Structural integrity of the mill's tanks is monitored through an engineering program which includes periodic visual inspection of the tank interior and exterior in addition to testing of wall, floor, and roof thicknesses.

Control measures are also implemented to contain and/or treat any spills which might occur. Several of the mill's tanks, including all acid tanks, are equipped with dikes which contain at least one and a half times the tank volume. The mill has an acid dike drainage plan in effect which requires testing of accumulated liquids within dikes and neutralization of the liquids. Spill response equipment is kept on hand at all times in the event of a material spill.

Any drainage from the mill production area will be treated in the facility's effluent treatment system. The system includes an emergency holding pond, a primary clarifier, an aerated stabilization basin, and two large naturally aerated basins with extended retention times. The system also includes underflow structures which serve to skim any floating materials. The discharge at Outfall DSN00l itself is a controlled flow discharge and may be reduced or halted as needed.

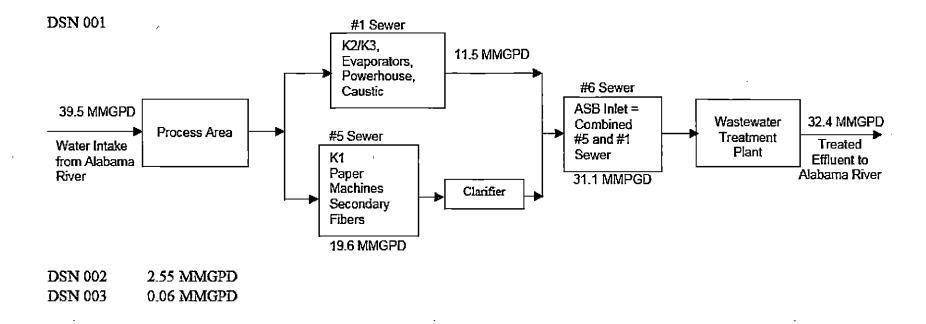
Treatment Codes: 1T, 1U, 3B, 3G

DSN 003

Structural and nonstructural control measures: Tanks located in this drainage area are equipped with a dike capable of holding one and a half times the tank contents. The tank loading area is paved and sloped to contain any spilled liquid. The tank and loading area are covered with a roof to divert any rain water.

Treatment Codes: 4A

Figure 1
Line drawing showing the water flow through the facility.



DSN002: non-contact turbine condenser cooling water

DSN003: non-contact fire pump pressure relief water mill supply pump seal water, storm water runoff from bark pile and process water

Figure 2
Effluent Treatment System Schematic

