

BOBBY JINDAL
GOVERNOR



PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

CERTIFIED MAIL - 7008 3230 0001 2852 6438

May 24, 2011

Loretta Reiber, P.E.
Permits Branch, Water Division
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317

RE: NPDES Permit Number AR 0001210, AFIN 02-00013

Dear Ms. Reiber:

The Louisiana Department of Environmental Quality, Water Permits Division has reviewed the permit modification for the Georgia-Pacific Crossett Paper Operations. As Louisiana waters are downstream of the Crossett Paper Operations discharge, we appreciate the opportunity to review and comment on the proposed permit modification. Based on our staff review, we concur with your proposed permit modification. Please keep us informed for any further permit actions with the Crossett Paper Operations. If you need any other information please contact Bruce Fielding at 219-3231.

Sincerely,

A handwritten signature in black ink, appearing to read "Melvin C. Mitchell, Sr.", with a large circular flourish at the end.

Melvin C. Mitchell, Sr.
Administrator, Water Permits Division

CF: Ann Hill, Legal Division
Non Point Source
NWRO
Joette Kenaley, Enforcement Division

ADEQ

ARKANSAS
Department of Environmental Quality

COPY

original to JOWITE
Sm
copy to Admin Mitchell

May 6, 2011

CERTIFIED MAIL RETURN RECEIPT REQUESTED: (7006 3450 0003 4066 7784)

Melvin Curtis Mitchell, Sr.
Administrator, Water Permits Division
Office of Environmental Services
Louisiana Department of Environmental Quality
P.O. Box 4313
Baton Rouge, LA 70821-4313

DUGAN OK with letter 5/24/2011
Check / Back to ME /
add to the Tracking
LOG --
Thp
5/13/11

RE: NPDES Permit Number AR0001210, AFIN 02-00013

Dear Mr. Mitchell:

This letter constitutes notice of the Department's draft permit decision. Enclosed is the public notice, a copy of the draft permit and Fact Sheet which the Arkansas Department of Environmental Quality (ADEQ) has prepared. In accordance with Arkansas Regulations, the enclosed public notice will be published by ADEQ in a newspaper of general circulation of the facility on May 11, 2011. Comments must be received at ADEQ prior to the close of the public comment period (i.e., 30 days following the publication date) as shown in the enclosed public notice.

Katie Henderson
Katie Henderson
Administrative Specialist II, Water Division

RECEIVED

MAY 17 2011

LA. DEPARTMENT OF
ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL SERVICES
MINOR INDUSTRIAL PERMITS

2011 MAY 11 PM 2:15

100-0000

ADEQ

ARKANSAS
Department of Environmental Quality

May 15, 2011

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7006 3450 0003 4066 3458)

Karen Dickinson
Georgia-Pacific LLC - Crossett Paper Operations
100 Mill Supply Road
Crossett, AR 71635

RE: Discharge Permit Number AR0001210, AFIN 02-00013

Dear Ms. Dickinson:

Enclosed is the public notice, a copy of the draft permit and Fact Sheet which the Arkansas Department of Environmental Quality (ADEQ) has prepared and mailed to you on above date under the authority of the National Pollutant Discharge Elimination System (NPDES) and the Arkansas Water and Air Pollution Control Act. A copy of the final permit will be mailed to you when the Department has made a final permitting decision.

In accordance with Reg. 8.207, the enclosed public notice will be or has been published by ADEQ in a newspaper of general circulation of your facility for one (1) day only. An invoice for the cost of publishing the public notice and proof of publication will be sent to you by the advertising newspaper. The permittee must send proof of publication and proof of payment to the address at the bottom of this letter as soon as possible but no later than 30 days from the above date. Until this Department receives proof of publication of the public notice and payment of all permit fees, no further action will be taken on the issuance of your discharge permit.

The following is a list of the major changes to the previously issued permit:

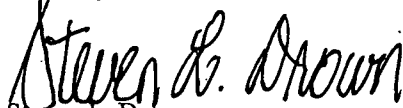
THIS IS A MODIFIED PERMIT. IN ACCORDANCE WITH 40 CFR 122.62, ONLY THE CONDITIONS WHICH ARE THE SUBJECT OF THE MODIFICATION ARE REOPENED. COMMENTS CONCERNING ANY PORTIONS OF THE PERMIT WHICH HAVE NOT BEEN REOPENED WILL NOT BE CONSIDERED.

1. The pH monitoring frequencies at Outfall 001 and SMS002 have been changed to three times per week.
2. Conditions #16 and #17 of Part II of the permit have been deleted. As a result, Conditions #18 - #22 have been renumbered.
3. The Mercury Minimization Plan requirements have been revised.

Comments must be received at ADEQ prior to the close of the public comment period as described in the enclosed public notice. Once a final permit is issued by the Director and becomes effective, the permittee must comply with all terms and conditions of the permit, or be subject to enforcement actions for any instances of noncompliance during the duration of the permit, usually five (5) years. Consequently, it is imperative that you, as the applicant, thoroughly review the enclosed documentation for accuracy, applicability, and your ability to comply with all conditions therein.

Should you have any questions concerning any part of the draft permit, please contact Loretta Reiber, P.E. at (501) 682-0612.

Sincerely,



Steven L. Drown
Chief, Water Division

SD:lr

Enclosure

2011 MAY 11 PM 2:15
DEQ - DEQ

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY

5301 NORTHSHORE DRIVE / NORTH LITTLE ROCK / ARKANSAS 72118-5317 / TELEPHONE 501-682-0744 / FAX 501-682-0880
www.adeq.state.ar.us

PUBLIC NOTICE OF DRAFT DISCHARGE PERMIT
PERMIT NUMBER AR0001210, AFIN 02-00013

This is to give notice that the Permits Branch of the Water Division of the Arkansas Department of Environmental Quality (ADEQ), 5301 Northshore Drive, North Little Rock, Arkansas 72118-5317 at telephone number (501) 682-0622, proposes a draft modification of the permit for which a Permit Appeal Resolution was signed on 03/07/2011 by the permittee and on 03/15/2011 by the Department for the following applicant under the National Pollutant Discharge Elimination System (NPDES) and the Arkansas Water and Air Pollution Control Act.

Applicant: Georgia-Pacific LLC - Crossett Paper Operations, 100 Mill Supply Road, Crossett, AR 71635. Location: west on Hwy 82 from the paper mill, go 1 mile before turning left onto Texas Ave. Go 2 miles then turn right. Proceed until you come to a T in the road, noting where the primary clarifier is located; Latitude: 33° 08' 30"; Longitude: 91° 58' 12" in Ashley County, Arkansas. The discharge of treated process wastewater (Paper Mill, Plywood Plant, and Studmill operations), sanitary wastewater, landfill leachate, site stormwater, chemical plant, building products, treated effluent from the City of Crossett, truck wash, backwash wastewater, and product stewardship water is into Mossy Lake, then to Coffee Creek, then to the Ouachita River in Segment 2D of the Ouachita River Basin.

THIS IS A MODIFIED PERMIT. IN ACCORDANCE WITH 40 CFR 122.62, ONLY THE CONDITIONS WHICH ARE THE SUBJECT OF THE MODIFICATION ARE REOPENED. COMMENTS CONCERNING ANY PORTIONS OF THE PERMIT WHICH HAVE NOT BEEN REOPENED WILL NOT BE CONSIDERED.

1. The pH monitoring frequencies at Outfall 001 and SMS002 have been changed to three times per week.
2. Conditions #16 and #17 of Part II of the permit have been deleted. As a result, Conditions #18 - #22 have been renumbered.
3. The Mercury Minimization Plan requirements have been revised.

ADEQ's contact person for submitting written comments, requesting information regarding the draft permit, or obtaining a copy of the permit and the Fact Sheet is Loretta Reiber, P.E., at the above address and telephone number or by email at Water-Draft-Permit-Comment@adeq.state.ar.us. For those with Internet access, a copy of the proposed draft permit as well as the publication date may be found on the ADEQ's website at:

http://www.adeq.state.ar.us/water/branch_permits/individual_permits/pn_permits/pnpermits.asp.

The last day of the comment period is 30 days after the publication date. If the last day of the comment period is a Saturday, Sunday or legal holiday, the public comment period shall expire on the next day that is not a Saturday, Sunday or legal holiday. For information regarding the actual publication date along with the actual date and time the comment period will end, please contact Loretta Reiber, P.E. at the above address and telephone number or by email at Water-Draft-Permit-Comment@adeq.state.ar.us. The permit will become effective approximately two weeks after the close of the comment period unless comments are received and/or a public hearing is requested prior to the close of the comment period requiring a delay of the effective date. Comments and public hearing procedures may be found at 40 CFR Parts 124.10 through 124.12 and APCEC Regulation No. 8. All persons, including the permittee, who wish to comment on ADEQ's draft permitting decision, must submit written comments to ADEQ, along with their name and mailing address. After the public comment period, and public hearing, if one is held, ADEQ will issue a final permitting decision. A Public Hearing will be held when ADEQ finds a significant degree of public interest. ADEQ will notify the applicant and each person who has submitted written comments or requested notice of the final permitting decision. Any interested person who has submitted comments may appeal a final decision by ADEQ in accordance with the APCEC Regulation No. 8 (Administrative Procedures).

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Fact Sheet

This Fact Sheet is for information and justification of the permit limits only and is not enforceable.

For modification of discharge Permit Number AR0001210 with AFIN 02-00013 to discharge to Waters of the State

1. PERMITTING AUTHORITY.

The issuing office is:

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317

2. APPLICANT.

The applicant's facility and mailing address is:

Georgia-Pacific LLC
Crossett Paper Operations
100 Mill Supply Road
Crossett, AR 71635

3. PREPARED BY.

The permit was prepared by:

Loretta Reiber, P.E.
Staff Engineer
Permits Branch, Water Division
(501) 682-0612
E-Mail: reiber@adeq.state.ar.us

4. PERMIT ACTIVITY.

Previous Permit Effective Date: 11/01/2010
Previous Permit Expiration Date: 10/31/2015

THIS IS A MODIFIED PERMIT. IN ACCORDANCE WITH 40 CFR 122.62, ONLY THE CONDITIONS WHICH ARE THE SUBJECT OF THE MODIFICATION ARE REOPENED. COMMENTS CONCERNING ANY PORTIONS OF THE PERMIT WHICH HAVE *NOT* BEEN REOPENED WILL NOT BE CONSIDERED.

DRAFT

Page 3 of Fact Sheet
Permit Number: AR0001210
AFIN: 02-00013

It is important to note that the requirement for the permittee to develop and implement a Mercury Minimization Plan by September 1, 2011, is remaining in the permit. The Mercury Minimization Plan is required to be submitted to the Department. The permittee is required to submit an annual report to the Department which should include a summary of potential sources of mercury, control measures developed and implemented, results of source reduction activities and monitoring, sampling results, and any adjustments made to the program plan.

It is proposed that the discharge permit be modified for the remainder of the 5-year term in accordance with regulations promulgated at 40 CFR Part 122.46(a).

Legal Order Review:

There are currently no active Consent Administrative Orders (CAOs) or Notice of Violations (NOVs) for this facility.

5. FINANCIAL ASSURANCE

The permittee is not required to obtain financial assurance because the City of Crossett, which discharges to Georgia-Pacific upstream of the aeration basin and downstream of all other treatment units, already owns and operates its own wastewater treatment plant.

6. SIGNIFICANT CHANGES FROM THE PREVIOUSLY ISSUED PERMIT.

THIS IS A MODIFIED PERMIT. IN ACCORDANCE WITH 40 CFR 122.62, ONLY THE CONDITIONS WHICH ARE THE SUBJECT OF THE MODIFICATION ARE REOPENED. COMMENTS CONCERNING ANY PORTIONS OF THE PERMIT WHICH HAVE *NOT* BEEN REOPENED WILL NOT BE CONSIDERED.

The permittee is responsible for carefully reading the permit in detail and becoming familiar with all of the changes therein:

1. The pH monitoring frequencies at Outfall 001 and SMS002 have been changed to three times per week.
2. Conditions #16 and #17 of Part II of the permit have been deleted. Conditions #18 - #22 have been renumbered.
3. The Mercury Minimization Plan requirements have been revised.

DRAFT

Page 5 of Fact Sheet
Permit Number: AR0001210
AFIN: 02-00013

to ensure that the discharge will not contribute Total Recoverable Copper or Total Recoverable Zinc to the receiving water at levels which may exacerbate the impairment of the receiving water's designated uses. However, the stream segments listed in Category 5d are those in need of additional data to verify the accuracy of the assessment. The Department therefore reserves the right to remove these requirements at the time of the next permit renewal if the data collected demonstrates that there is not reasonable potential for water quality violations due to the levels of these parameters in the effluent and/or the reach and HUC of the Ouachita River is no longer on the 303(d) list for these parameters.

b. Endangered Species:

No comments on the application were received from the U.S. Fish and Wildlife Service (USF&WS). The draft permit and Fact Sheet were sent to the USF&WS for their review.

9. OUTFALL AND TREATMENT PROCESS DESCRIPTION.

The following is a description of the facility described in the application:

Average Design Flow: 45 MGD.

Type of Treatment: screening followed by primary clarifier, settling for ash removal, equalization, aerated lagoon with solids settling, and sludge dewatering.

Discharge Description: process wastewater (Paper Mill, Plywood Plant, and Studmill operations), sanitary wastewater, landfill leachate, site stormwater, chemical plant, building products, treated effluent from the City of Crossett, truck wash, backwash wastewater, and product stewardship waters.

The City of Crossett treats sanitary wastewater and some industrial wastewater in a two cell lagoon. This wastewater enters the Georgia-Pacific treatment system upstream of the aerated lagoon and downstream of any other treatment unit located at this facility.

Facility Status: This facility was evaluated using the NPDES Permit Rating Worksheet (MRAT) to determine the correct permitting status. Since the facility's MRAT score of 130 is greater than 80, this facility is classified as a Major industrial.

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<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
	Mass (lbs/day, unless otherwise specified)		Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Daily Max	Monthly Avg.	Daily Max		
2,3,7,8-TCDD	Report	Report	Report pg/l	Report pg/l	once/quarter	24-hr composite
Adsorbable Organic Halogens (AOX)	2146	3276	N/A	N/A	three/week	24-hr composite
Dieldrin	Report	Report	Report µg/l	Report µg/l	once/month	24-hr composite*
Total Recoverable Copper	Report	Report	Report µg/l	Report µg/l	once/month	24-hr composite*
Total Recoverable Zinc	Report	Report	Report µg/l	Report µg/l	once/month	24-hr composite*
Total Phosphorous	Report	Report	Report	Report	once/month	24-hr composite
Nitrates as Nitrogen	Report	Report	Report	Report	once/month	24-hr composite
pH	N/A	N/A	<u>Minimum</u> 6.0 s.u.	<u>Maximum</u> 9.0 s.u.	three/week	grab
Chronic WET Testing	N/A	N/A	Report, See Item #14 of this Fact Sheet.		once/2 months	24-hr composite

*Sample may consist of four grab samples taken over a 24 hour period and flow weighted.

2. **Solids, Foam, and Free Oil:** There shall be no discharge of distinctly visible solids, scum, or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits, or sludge banks. There shall be no visible sheen due to the presence of oil (Sheen means an iridescent appearance on the surface of the water).

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c. Interim Effluent Limitations

Stream Monitoring Station (SMS) 002 – At the Transition from Mossy Lake to Coffee Creek

1. Conventional and/or Toxic Pollutants

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements*</u>	
	Mass (lbs/day, unless otherwise specified)		Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Daily Max	Monthly Avg.	Daily Max		
Flow (MGD)	N/A	N/A	Report	Report	daily	totalizing meter
Biochemical Oxygen Demand (BOD5)						
(October – July)	8000	12000	Report	Report	three/week	24-hr composite
(August)	7262	10893	Report	Report	three/week	24-hr composite
(September)	5911	8867	Report	Report	three/week	24-hr composite
Total Suspended Solids (TSS)	18000	30000	Report	Report	three/week	24-hr composite
Dieldrin	Report	Report	Report µg/l	Report µg/l	once/month	grab
Total Recoverable Copper	Report	Report	Report µg/l	Report µg/l	once/month	grab
Total Recoverable Zinc	Report	Report	Report µg/l	Report µg/l	once/month	grab
Total Phosphorous	Report	Report	Report	Report	once/month	24-hr composite
Nitrates as Nitrogen	Report	Report	Report	Report	once/month	24-hr composite
Change in Receiving Stream Color**	N/A	N/A	N/A	Report**	once/quarter	grab
pH	N/A	N/A	<u>Minimum</u> 6.0 s.u.	<u>Maximum</u> 9.0 s.u.	three/week	grab

* **When Mossy Lake is not flooded.** A flooded state is defined as the period when the gauge at the Felsenthal Lock and Dam exceeds 62 feet and also for the two weeks following the recession of flood waters below 62 feet.

**See Condition No. 17 of Part II of the permit.

- Solids, Foam, and Free Oil:** There shall be no discharge of distinctly visible solids, scum, or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits, or sludge banks. There shall be no visible sheen due to the presence of oil (Sheen means an iridescent appearance on the surface of the water).

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e. Effluent Limitations

Internal Outfall 101 – Line 1A of Hardwood Effluent

1. Conventional and/or Toxic Pollutants

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
	Mass (lbs/day, unless otherwise specified)		Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg	Daily Max	Monthly Avg	Daily Max		
Flow (MGD)	N/A	N/A	Report	Report	Daily	Instantaneous
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	N/A	N/A	N/A	< 10 pg/l	Once/quarter	24-hr composite
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	N/A	N/A	N/A	31.9 pg/l	Once/quarter	24-hr composite
Trichlorosyringol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
3,4,5-Trichlorocatechol	N/A	N/A	N/A	< 5.0 µg/l	Once/quarter	24-hr composite
3,4,6-Trichlorocatechol	N/A	N/A	N/A	< 5.0 µg/l	Once/quarter	24-hr composite
3,4,5-Trichloroguaiacol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
3,4,6-Trichloroguaiacol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
4,5,6-Trichloroguaiacol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
2,4,5-Trichlorophenol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
2,4,6-Trichlorophenol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
Tetrachlorocatechol	N/A	N/A	N/A	< 5.0 µg/l	Once/quarter	24-hr composite
Tetrachloroguaiacol	N/A	N/A	N/A	< 5.0 µg/l	Once/quarter	24-hr composite
2,3,4,6-Tetrachlorophenol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
Pentachlorophenol	N/A	N/A	N/A	< 5.0 µg/l	Once/quarter	24-hr composite
Chloroform	4.78	7.99	Report	Report	Once/2 months	24-hr composite

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g. Effluent Limitations

Internal Outfall 103 – Line 2 of Softwood Effluent

1. Conventional and/or Toxic Pollutants

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
	Mass (lbs/day, unless otherwise specified)		Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Daily Max	Monthly Avg.	Daily Max		
Flow (MGD)	N/A	N/A	Report	Report	Daily	Instantaneous
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	N/A	N/A	N/A	< 10 pg/l	Once/quarter	24-hr composite
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	N/A	N/A	N/A	31.9 pg/l	Once/quarter	24-hr composite
Trichlorosyringol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
3,4,5-Trichlorocatechol	N/A	N/A	N/A	< 5.0 µg/l	Once/quarter	24-hr composite
3,4,6-Trichlorocatechol	N/A	N/A	N/A	< 5.0 µg/l	Once/quarter	24-hr composite
3,4,5-Trichloroguaiacol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
3,4,6-Trichloroguaiacol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
4,5,6-Trichloroguaiacol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
2,4,5-Trichlorophenol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
2,4,6-Trichlorophenol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
Tetrachlorocatechol	N/A	N/A	N/A	< 5.0 µg/l	Once/quarter	24-hr composite
Tetrachloroguaiacol	N/A	N/A	N/A	< 5.0 µg/l	Once/quarter	24-hr composite
2,3,4,6-Tetrachlorophenol	N/A	N/A	N/A	< 2.5 µg/l	Once/quarter	24-hr composite
Pentachlorophenol	N/A	N/A	N/A	< 5.0 µg/l	Once/quarter	24-hr composite
Chloroform	4.81	8.04	Report	Report	Once/2 months	24-hr composite

13. BASIS FOR PERMIT CONDITIONS.

The following is an explanation of the derivation of the conditions of the permit and the reasons for them or, in the case of notices of intent to deny or terminate, reasons suggesting the decisions as required under 40 CFR Part 124.7 (48 FR 1413, April 1, 1983).

Technology-Based versus Water Quality-Based Effluent Limitations and Conditions

No permit limits are changing with this permit modification.

DRAFT

resolution because the permittee previously sampled pH three times per week and did not have any excursions outside of the permitted pH range during the term of the current permit. See Item #4 of this Fact Sheet for additional information.

Parameter	Previous Permit		Final Permit	
	Frequency of Sample	Sample Type	Frequency of Sample	Sample Type
pH	One/day	Grab	Three/week	Grab

16. PERMIT COMPLIANCE.

Compliance with final effluent limitations is required by the following schedule:

Compliance is required on the effective date of the permit with the exceptions listed below in Item #3.

1. The report required by Condition No. 9 of Part II of this permit shall be submitted no later than May 31 of each year.
2. The permittee must conduct the fish tissue analysis required by Condition No. 11 of Part II of the permit during the third year of the permit cycle. The results must be submitted within 30 days of the completion of the sampling and analyses.
3. The permittee shall submit progress reports addressing the progress towards attaining the final effluent limits for Total Recoverable Copper, Total Recoverable Zinc, and Dieldrin according to the following schedule:

ACTIVITY

DUE DATE

Progress Report
Progress Report
Achieve Final Limits

One (1) year from effective date
Two (2) years from effective date
Three (3) years from effective date

Compliance with final limits for Total Recoverable Copper, Total Recoverable Zinc, and Dieldrin is required three (3) years from the effective date of the permit.

The permittee has the option to undertake any study deemed necessary to meet the final limitations during the interim period. Any additional treatment must be approved and construction approval granted prior to final installation.

DRAFT

Permit Number: AR0001210

AFIN: 02-00013

AUTHORIZATION TO DISCHARGE WASTEWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE ARKANSAS WATER AND AIR POLLUTION CONTROL ACT

In accordance with the provisions of the Arkansas Water and Air Pollution Control Act (Act 472 of 1949, as amended, Ark. Code Ann. 8-4-101 et seq.), and the Clean Water Act (33 U.S.C. §1251 et seq.),

The applicant's facility and mailing address is:

Georgia-Pacific LLC
Crossett Paper Operations
100 Mill Supply Road
Crossett, AR 71635

is authorized to discharge from a facility located as follows: west on Hwy 82 from the paper mill, go 1 mile before turning left onto Texas Ave. Go 2 miles then turn right. Proceed until you come to a T in the road, noting where the primary clarifier is located in Ashley County, Arkansas.

Latitude: 33° 07' 34"; Longitude: 91° 59' 35"

The receiving waters named:

Outfall 001: the upper reaches of Mossy Lake, then into Coffee Creek, then into Ouachita River in Segment 2D of the Ouachita River Basin.

SMS 002: At the transition from Mossy Lake to Coffee Creek then into Ouachita River in Segment 2D of the Ouachita River Basin.

The outfalls are located at the following coordinates:

Outfall 001: Latitude : 33° 06' 22.55"; Longitude: 92° 02' 17.2"

SMS 002: Latitude : 33° 01' 58"; Longitude: 92° 04' 25"

Internal Outfall 101: Latitude : 33° 08' 29.5"; Longitude: 91° 58' 25.8"

Internal Outfall 102: Latitude : 33° 08' 29.5"; Longitude: 91° 58' 25.8"

Internal Outfall 103: Latitude : 33° 08' 29.5"; Longitude: 91° 58' 25.8"

Discharge shall be in accordance with effluent limitations, monitoring requirements, and other conditions set forth in this permit.

Original Issue Date: September 30, 2010

Original Effective Date: November 1, 2010

Modification Effective Date:

Expiration Date: October 31, 2015

Steven L. Drown
Chief, Water Division
Arkansas Department of Environmental Quality

Issue Date

PART I PERMIT REQUIREMENTS

SECTION A. INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: OUTFALL 001 – proces wastewater (Paper Mill, Plywood Plant, and Studmill operations), sanitary wastewater, landfill leachate, site stormwater¹, chemical plant building products, treated effluent from the City of Crossett, truck wash, backwash wastewater, and product stewardship waters.

During the period beginning on the original effective date and lasting three years, the permittee is authorized to discharge from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below.

Effluent Characteristics	Discharge Limitations				Monitoring Requirements	
	Mass (lbs/day, unless otherwise specified)		Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Daily Max	Monthly Avg.	Daily Max		
Flow (MGD)	N/A	N/A	Report	Report	Daily	Totalizing Meter
Biochemical Oxygen Demand (BOD5)	24155.4	46453.0	64.4	123.8	Three/week	24-hr composite
Total Suspended Solids (TSS)	37720	70188	119.6	222.4	Three/week	24-hr composite
2,3,7,8-TCDD ⁴	Report	Report	Report pg/l	Report pg/l	Once/quarter	24-hr composite
Adsorbable Organic Halogens (AOX) ²	2146	3276	N/A	N/A	Three/week	24-hr composite
Dieldrin ⁵	Report	Report	Report µg/l	Report µg/l	Once/month	24-hr composite ⁶
Total Recoverable Copper ⁵	Report	Report	Report µg/l	Report µg/l	Once/month	24-hr composite ⁶
Total Recoverable Zinc ⁵	Report	Report	Report µg/l	Report µg/l	Once/month	24-hr composite ⁶
Total Phosphorus	Report	Report	Report	Report	Once/month	24-hr composite
Nitrates as Nitrogen	Report	Report	Report	Report	Once/month	24-hr composite
pH	N/A	N/A	<u>Minimum</u> 6.0 s.u.	<u>Maximum</u> 9.0 s.u.	Three/week	Grab
Chronic Whole Effluent Toxicity ³	N/A	N/A	N/A	N/A	Once/2 months	24-hr composite
Pimephales promelas (Chronic) Pass/Fail Lethality (7-day NOEC) TLP6C Pass/Fail Growth (7-day NOEC) TGP6C Survival (7-day NOEC) TOP6C Coefficient of Variation, Growth TQP6C Growth (7-day NOEC) TPP6C			<u>7-Day Average</u> Report (Pass=0/Fail=1) Report (Pass=0/Fail=1) Report % Report % Report %		once/2 months once/2 months once/2 months once/2 months once/2 months	24-hr composite 24-hr composite 24-hr composite 24-hr composite 24-hr composite
Ceriodaphnia dubia (Chronic) Pass/Fail Lethality (7-day NOEC) TLP3B Pass/Fail production (7-day NOEC) TGP3B Survival (7-day NOEC) TOP3B Coefficient of Variation, Reproduction TQP3B Reproduction (7-day NOEC) TPP3B			<u>7-Day Average</u> Report (Pass=0/Fail=1) Report (Pass=0/Fail=1) Report % Report % Report %		once/2 months once/2 months once/2 months once/2 months	24-hr composite 24-hr composite 24-hr composite 24-hr composite

1 See Condition Nos. 9 and 16 of Part II (BMP Requirements).
 2 See Condition No. 8 of Part II (AOX Test Method).
 3 See Condition No. 15 of Part II (WET Testing Requirements).
 4 See Condition No. 7 of Part II (Dioxin Monitoring Requirements).
 5 See Condition No. 14 of Part II (Metals and Pesticides Test Methods). Monitoring is required only when Mossy Lake is flooded. A flooded state is defined as the period when the gauge at the Felsenthal Lock and Dam exceeds 62 feet and also for the two weeks following the recession of flood waters below 62 feet.
 6 The 24-hr composite sample may consist of four grab samples taken over 24 hours and flow weighted.

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There shall be no discharge of distinctly visible solids, scum, or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits, or sludge banks.

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at the Outfall 001, following the final treatment unit (aeration basin) at Latitude : 33° 06' 22.5"; Longitude: 92° 02' 17.2" before discharge to Mossy Lake.

PART I PERMIT REQUIREMENTS

SECTION A. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: OUTFALL 001 – process wastewater (Paper Mill, Plywood Plant, and Studmill operations), sanitary wastewater, landfill leachate, site stormwater¹, chemical plant, building products, treated effluent from the City of Crossett, truck wash, backwash wastewater, and product stewardship waters.

During the period beginning on three years from the original effective date and lasting until the date of expiration, the permittee is authorized to discharge from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below.

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
	Mass (lbs/day, unless otherwise specified)		Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Daily Max	Monthly Avg.	Daily Max		
Flow (MGD)	N/A	N/A	Report	Report	Daily	Totalizing Meter
Biochemical Oxygen Demand (BOD ₅)	24155.4	46453.0	64.4	123.8	Three/week	24-hr composite
Total Suspended Solids (TSS)	37720	70188	119.6	222.4	Three/week	24-hr composite
2,3,7,8-TCDD ⁴	Report	Report	Report pg/l	Report pg/l	Once/quarter	24-hr composite
Adsorbable Organic Halogens (AOX) ²	2146	3276	N/A	N/A	Three/week	24-hr composite
Dieldrin ⁵	0.00034	0.0011	0.00091 µg/l	0.00284 µg/l	Once/month	24-hr composite ⁶
Total Recoverable Copper ³	7.04	14.12	18.75 µg/l	37.62 µg/l	Once/month	24-hr composite ⁶
Total Recoverable Zinc ³	73.02	146.52	194.58 µg/l	390.41 µg/l	Once/month	24-hr composite ⁶
Total Phosphorus	Report	Report	Report	Report	Once/month	24-hr composite
Nitrates as Nitrogen	Report	Report	Report	Report	Once/month	24-hr composite
pH	N/A	N/A	<u>Minimum</u> 6.0 s.u.	<u>Maximum</u> 9.0 s.u.	Three/week	Grab
Chronic Whole Effluent Toxicity ³	N/A	N/A	N/A	N/A	Once/2 months	24-hr composite
<u>Pimephales promelas (Chronic)</u> Pass/Fail Lethality (7-day NOEC) TLP6C Pass/Fail Growth (7-day NOEC) TGP6C Survival (7-day NOEC) TOP6C Coefficient of Variation, Growth TQP6C Growth (7-day NOEC) TPP6C			<u>7-Day Average</u> Report (Pass=0/Fail=1) Report (Pass=0/Fail=1) Report % Report % Report %		once/2 months once/2 months once/2 months once/2 months once/2 months	24-hr composite 24-hr composite 24-hr composite 24-hr composite 24-hr composite
<u>Ceriodaphnia dubia (Chronic)</u> Pass/Fail Lethality (7-day NOEC) TLP3B Pass/Fail production (7-day NOEC) TGP3B Survival (7-day NOEC) TOP3B Coefficient of Variation, Reproduction TQP3B Reproduction (7-day NOEC) TPP3B			<u>7-Day Average</u> Report (Pass=0/Fail=1) Report (Pass=0/Fail=1) Report % Report % Report %		once/2 months once/2 months once/2 months once/2 months once/2 months	24-hr composite 24-hr composite 24-hr composite 24-hr composite 24-hr composite

1 See Condition Nos 9 and 16 of Part II (BMP Requirements).
 2 See Condition No. 8 of Part II (AOX Test Method).
 3 See Condition No. 15 of Part II (WET Testing Requirements).
 4 See Condition No. 7 of Part II (Dioxin Monitoring Requirements).
 5 See Condition No. 14 of Part II (Metals and Pesticides Test Methods). Monitoring is required only when **Mossy Lake is flooded**. A flooded state is defined as the period when the gauge at the Felsenthal Lock and Dam exceeds 62 feet and also for the two weeks following the recession of flood waters below 62 feet.
 6 The 24-hr composite sample may consist of four grab samples taken over 24 hours and flow weighted.

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There shall be no discharge of distinctly visible solids, scum, or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits, or sludge banks.

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at the Outfall 001, following the final treatment unit (aeration basin) at Latitude : 33° 06' 22.5"; Longitude: 92° 02' 17.2" before discharge to Mossy Lake.

PART I PERMIT REQUIREMENTS

SECTION A. INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: Stream Monitoring Station (SMS 002 – At the Transition from Mossy Lake to Coffee Creek.

During the period beginning on the effective date and lasting three years, the permittee is authorized to discharge from serial number SMS 002. Such discharges shall be limited and monitored by the permittee as specified below.

Effluent Characteristics	Discharge Limitations				Monitoring Requirements ¹	
	Mass (lbs/day, unless otherwise specified)		Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Daily Max	Monthly Avg.	Daily Max		
Flow (MGD)	N/A	N/A	Report	Report	Daily	Totalizing Meter
Biochemical Oxygen Demand (BOD5)						
October – July	8000	12000	Report	Report	Three/week	24-hr composite
August	7262	10893	Report	Report	Three/week	24-hr composite
September	5911	8867	Report	Report	Three/week	24-hr composite
Total Suspended Solids (TSS)	18000	30000	Report	Report	Three/week	24-hr composite
Dieldrin ²	Report	Report	Report µg/l	Report µg/l	Once/month	Grab
Total Recoverable Copper ²	Report	Report	Report µg/l	Report µg/l	Once/month	Grab
Total Recoverable Zinc ²	Report	Report	Report µg/l	Report µg/l	Once/month	Grab
Total Phosphorous	Report	Report	Report	Report	Once/month	24-hr composite
Nitrates as Nitrogen	Report	Report	Report	Report	Once/month	24-hr composite
Change in Receiving Stream Color ³	N/A	N/A	N/A	Report ³	Once/quarter	Grab
pH	N/A	N/A	<u>Minimum</u> 6.0 s.u.	<u>Maximum</u> 9.0 s.u.	Three/week	Grab

1 **When Mossy Lake is not flooded.** A flooded state is defined as the period when the gauge at the Felsenthal Lock and Dam exceeds 62 feet and also for the two weeks following the recession of flood waters below 62 feet.

2 See Condition No. 14 of Part II (Metals and Pesticides Test Methods).

3 See Condition No. 17 of Part II.

There shall be no discharge of distinctly visible solids, scum, or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits, or sludge banks.

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at the SMS 002, after Mossy Lake and prior to Coffee Creek in the general area of the following coordinates: Latitude : 33° 01' 58"; Longitude: 92° 04' 25".

PART I PERMIT REQUIREMENTS

SECTION A. FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: Stream Monitoring Station (SMS) 002 - At the Transition from Mossy Lake to Coffee Creek.

During the period beginning on three years from the effective date and lasting until the date of expiration, the permittee is authorized to discharge from serial number SMS 002. Such discharges shall be limited and monitored by the permittee as specified below.

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements¹</u>	
	Mass (lbs/day, unless otherwise specified)		Concentration (mg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Daily Max	Monthly Avg.	Daily Max		
Flow (MGD)	N/A	N/A	Report	Report	Daily	Totalizing Meter
Biochemical Oxygen Demand (BOD5)						
October - July	8000	12000	Report	Report	Three/week	24-hr composite
August	7262	10893	Report	Report	Three/week	24-hr composite
September	5911	8867	Report	Report	Three/week	24-hr composite
Total Suspended Solids (TSS)	18000	30000	Report	Report	Three/week	24-hr composite
Dieldrin ²	0.00034	0.0011	0.00091 µg/l	0.00284 µg/l	Once/month	Grab
Total Recoverable Copper ²	7.04	14.12	18.75 µg/l	37.62 µg/l	Once/month	Grab
Total Recoverable Zinc ²	73.02	146.52	194.58 µg/l	390.41 µg/l	Once/month	Grab
Total Phosphorous	Report	Report	Report	Report	Once/month	24-hr composite
Nitrates as Nitrogen	Report	Report	Report	Report	Once/month	24-hr composite
Change in Receiving Stream Color ³	N/A	N/A	N/A	Report ³	Once/quarter	Grab
pH	N/A	N/A	<u>Minimum</u> 6.0 s.u.	<u>Maximum</u> 9.0 s.u.	Three/week	Grab

- 1 **When Mossy Lake is not flooded.** A flooded state is defined as the period when the gauge at the Felsenthal Lock and Dam exceeds 62 feet and also for the two weeks following the recession of flood waters below 62 feet.
- 2 See Condition No. 14 of Part II (Metals and Pesticides Test Methods).
- 3 See Condition No. 17 of Part II.

There shall be no discharge of distinctly visible solids, scum, or foam of a persistent nature, nor shall there be any formation of slime, bottom deposits, or sludge banks.

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at the SMS 002, after Mossy Lake and prior to Coffee Creek in the general area of the following coordinates: Latitude : 33° 01' 58"; Longitude: 92° 04' 25".

PART I PERMIT REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: Internal Outfall 101 – Line 1A of Hardwood Effluent.

During the period beginning on the effective date and lasting until the date of expiration, the permittee is authorized to discharge from internal Outfall 101. Such discharges shall be limited and monitored by the permittee as specified below.

Effluent Characteristics	Discharge Limitations				Monitoring Requirements	
	Mass (lbs/day, unless otherwise specified)		Concentration (µg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Daily Max	Monthly Avg.	Daily Max		
Flow (MGD)	N/A	N/A	Report	Report	Daily	Instantaneous
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) ¹	N/A	N/A	N/A	<10 pg/l	Once/quarter	24-hr composite
2,3,7,8-Tetrachlorodebenzofuran (TCDF) ¹	N/A	N/A	N/A	31.9 pg/l	Once/quarter	24-hr composite
Trichlorosyringol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
3,4,5-Trichlorocatechol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
3,4,6-Trichlorocatechol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
3,4,5-Trichloroguaiacol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
3,4,6-Trichloroguaiacol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
4,5,6-Trichloroguaiacol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
2,4,5-Trichlorophenol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
2,4,6-Trichlorophenol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
Tetrachlorocatechol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
Tetrachloroguaiacol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
2,3,4,6-Tetrachlorophenol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
Pentachlorophenol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
Chloroform	4.78	7.99	Report	Report	Once/2 months	24-hr composite

1 See Condition No. 8 of Part II (Test Method Requirements).

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. Samples taken in compliance with monitoring requirements specified above shall be taken at the following location(s): internal outfall 101 (Line 1A – Hardwood) at Latitude : 33° 08' 29.5"; Longitude: 91° 58' 25.8" and prior to commingling with other waste streams.

PART I PERMIT REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: Internal Outfall 102 – Line 1B of Hardwood Effluent.

During the period beginning on the effective date and lasting until the date of expiration, the permittee is authorized to discharge from internal Outfall 102. Such discharges shall be limited and monitored by the permittee as specified below.

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u>				<u>Monitoring Requirements</u>	
	Mass (lbs/day, unless otherwise specified)		Concentration (µg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg.	Daily Max.	Monthly Avg.	Daily Max.		
Flow (MGD)+	N/A	N/A	Report	Report	Daily	Instantaneous
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) ¹	N/A	N/A	N/A	<10 pg/l	Once/quarter	24-hr composite
2,3,7,8-Tetrachlorodebenzofuran (TCDF) ¹	N/A	N/A	N/A	31.9 pg/l	Once/quarter	24-hr composite
Trichlorosyringol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
3,4,5-Trichlorocatechol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
3,4,6-Trichlorocatechol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
3,4,5-Trichloroguaiacol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
3,4,6-Trichloroguaiacol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
4,5,6-Trichloroguaiacol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
2,4,5-Trichlorophenol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
2,4,6-Trichlorophenol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
Tetrachlorocatechol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
Tetrachloroguaiacol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
2,3,4,6-Tetrachlorophenol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
Pentachlorophenol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
Chloroform	4.78	7.99	Report	Report	Once/2 months	24-hr composite

¹ See Condition No. 8 of Part II (Test Method Requirements).

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. Samples taken in compliance with monitoring requirements specified above shall be taken at the following location(s): internal outfall 102 (Line 1B – Hardwood) at Latitude : 33° 08' 29.5"; Longitude: 91° 58' 25.8" and prior to commingling with other waste streams.

PART I PERMIT REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: Internal Outfall 103 – Line 2 of Softwood Effluent.

During the period beginning on the effective date and lasting until the date of expiration, the permittee is authorized to discharge from internal Outfall 103. Such discharges shall be limited and monitored by the permittee as specified below.

Effluent Characteristics	Discharge Limitations				Monitoring Requirements	
	Mass (lbs/day, unless otherwise specified)		Concentration (µg/l, unless otherwise specified)		Frequency	Sample Type
	Monthly Avg	Daily Max	Monthly Avg	Daily Max		
Flow (MGD)+	N/A	N/A	Report	Report	Daily	Instantaneous
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) ¹	N/A	N/A	N/A	<10 pg/l	Once/quarter	24-hr composite
2,3,7,8-Tetrachlorodebenzofuran (TCDF) ¹	N/A	N/A	N/A	31.9 pg/l	Once/quarter	24-hr composite
Trichlorosyringol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
3,4,5-Trichlorocatechol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
3,4,6-Trichlorocatechol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
3,4,5-Trichloroguaiacol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
3,4,6-Trichloroguaiacol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
4,5,6-Trichloroguaiacol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
2,4,5-Trichlorophenol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
2,4,6-Trichlorophenol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
Tetrachlorocatechol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
Tetrachloroguaiacol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
2,3,4,6-Tetrachlorophenol ¹	N/A	N/A	N/A	<2.5	Once/quarter	24-hr composite
Pentachlorophenol ¹	N/A	N/A	N/A	<5.0	Once/quarter	24-hr composite
Chloroform	4.81	8.04	Report	Report	Once/2 months	24-hr composite

¹ See Condition No. 8 of Part II (Test Method Requirements).

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. Samples taken in compliance with monitoring requirements specified above shall be taken at the following location(s): internal outfall 103 (Line 2 – Softwood) at Latitude : 33° 08' 29.5"; Longitude: 91° 58' 25.8" and prior to commingling with other waste streams.

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SECTION B. PERMIT COMPLIANCE

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

Compliance is required on the effective date of the permit with the exceptions listed below in Item #3.

1. The report required by Condition No. 9 of Part II of this permit shall be submitted no later than May 31 of each year.
2. The permittee must conduct the fish tissue analysis required by Condition No. 11 of Part II of the permit during the third year of the permit cycle. The results must be submitted within 30 days of the completion of the sampling and analyses.
3. The permittee shall submit progress reports addressing the progress towards attaining the final effluent limits for Total Recoverable Copper, Total Recoverable Zinc, and Dieldrin according to the following schedule:

ACTIVITY

DUE DATE

Progress Report

One (1) year from effective date

Progress Report

Two (2) years from effective date

Achieve Final Limits

Three (3) years from effective date

Compliance with final limits for Total Recoverable Copper, Total Recoverable Zinc, and Dieldrin is required three (3) years from the effective date of the permit.

The permittee has the option to undertake any study deemed necessary to meet the final limitations during the interim period. Any additional treatment must be approved and construction approval granted prior to final installation.

If Dieldrin is not detected at SMS 002 during interim period of this permit, the final Dieldrin limits will be removed from the permit through a modification. The permittee must request the removal at least 6 months prior to the effective date of the final limits.

PART II OTHER CONDITIONS

1. The operator of this wastewater treatment facility shall hold an Advanced Industrial license from the State of Arkansas in accordance with Act 1103 of 1991, Act 556 of 1993, Act 211 of 1971, and Regulation No. 3, as amended.
2. In accordance with 40 CFR Parts 122.62 (a)(2) and 124.5, this permit may be reopened for modification or revocation and/or reissuance to require additional monitoring and/or effluent limitations when new information is received that actual or potential exceedance of State water quality criteria and/or narrative criteria are determined to be the result of the permittee's discharge(s) to a relevant water body, or a Total Maximum Daily Load (TMDL) is established or revised for the water body that was not available at the time of the permit issuance that would have justified the application of different permit conditions at the time of permit issuance.
3. Other Specified Monitoring Requirements

The permittee may use alternative appropriate monitoring methods and analytical instruments other than as specified in Part I Section A of the permit without a major permit modification under the following conditions:

- The monitoring and analytical instruments are consistent with accepted scientific practices;
- The requests shall be submitted in writing to the Permits Section of the ADEQ Water Division for use of the alternate method or instrument.
- The method and/or instrument is in compliance with 40 CFR Part 136 or approved by the Director; and
- All associated devices are installed, calibrated and maintained to insure the accuracy of the measurements and are consistent with the accepted capability of that type of device. The calibration and maintenance shall be performed as part of the permittee's laboratory Quality Control/Quality Assurance program.

Upon written approval of the alternative monitoring method and/or analytical instruments, these methods or instruments must be consistently utilized throughout the monitoring period. ADEQ must be notified in writing and the permittee must receive written approval from ADEQ if the permittee decides to return to the original permit monitoring requirements.

4. The permittee has certified no chlorophenolic biocides are currently used. Any anticipated use of these biocides will require notification to ADEQ as specified in 40 CFR 122.61(a).

Pollutant	EPA Method
2,3,4,6-Tetrachlorophenol	1653
Pentachlorophenol	1653
AOX	1650

9. Specific Conditions Related to Best Management Practices Conditions

The permittee has performed all actions required by 40 CFR 430.03(j) within the time frames specified in that regulation.

The Permittee shall make the BMP Plan available at the facility for inspection by a representative of the ADEQ. The BMP Plan must contain all information outlined in 40 CFR 430.03(d) and demonstrate that the requirements of 40 CFR 430.03(c) have been implemented.

No later than May 31 of each year, the Permittee shall submit a report to the ADEQ indicating the BMP monitoring results, action level exceedances and corrective actions taken to respond to any exceedances. Exceedances are not violations of the permit. Failure to take appropriate action as soon as practicable is a permit violation. This report must contain all of the information outlined in 40 CFR 430.03(i)(4). The time frame to be covered by the report is the previous calendar year.

The Permittee shall maintain the records specified in 40 CFR 430.03(g) for a minimum of three years.

10. Permit Conditions for Accepting City of Crossett Wastewater

Georgia-Pacific and the City of Crossett must maintain the agreement for the discharge of the City's treated effluent into G-P's wastewater treatment system. The agreement must continue to state that the City will have a Pretreatment Program meeting applicable parts of 40 CFR 403, and the agreement will establish treatment standards for BOD₅ and TSS for the City's treated effluent that are submitted to and approved by the ADEQ. The agreement must also continue to address the notifications that the City must provide to G-P and the ADEQ in the event of potential changes in its discharge due to new significant dischargers, or changes in their wastewater characteristics. The agreement with the City of Crossett must continue to stipulate that monitoring records of the City's flow, BOD₅ and TSS will be maintained by the city for a minimum of three years to ascertain compliance with the Agreement.

12. General Condition for Plant Operations

In addition to the normal wastewater discharge, this NPDES permit authorizes discharges associated with or resulting during essential maintenance, regularly scheduled maintenance, during startup and shutdown, spills and release (whether anticipated or unanticipated) from anywhere in the permitted facility, as long as they are amenable to treatment, routed to the plant's wastewater treatment system and effluent limitations are met. In addition, discharges that are necessary to prevent loss of life, personal injury or severe property damage, as long as there are no feasible alternatives available, are also authorized by this permit, so long as effluent limitations are met.

13. The permittee must continue to use no elemental chlorine on any of the bleaching lines. This requirement is based on 40 CFR 430.02(f)(4).
14. The permittee may use any EPA approved method based on 40 CFR Part 136 provided the MQL for the chosen method is equal to or less than what has been specified in chart below:

Pollutant	MQL (µg/l)
Total Recoverable Copper	0.5
Total Recoverable Mercury	0.005
Total Recoverable Zinc	20
Dieldrin	0.02

The permittee may develop a matrix specific method detection limit (MDL) in accordance with Appendix B of 40 CFR Part 136. For any pollutant for which the permittee determines a site specific MDL, the permittee shall send to ADEQ, NPDES Permits Branch, a report containing QA/QC documentation, analytical results, and calculations necessary to demonstrate that a site specific MDL was correctly calculated. A site specific minimum quantification level (MQL) shall be determined in accordance with the following calculation:

$$\text{MQL} = 3.3 \times \text{MDL}$$

Upon written approval by Permits Branch, the site specific MQL may be utilized by the permittee for all future Discharge Monitoring Report (DMR) calculations and reporting requirements.

If Dieldrin is not detected at Outfall 001 and SMS 002 during the interim period of this permit, the final Dieldrin limits will be removed from the permit through a major modification. The permittee must request the removal at least six months prior to the effective date of the final permit limit.

2. PERSISTENT LETHAL and/or SUB-LETHAL EFFECTS

The requirements of this subsection apply only when a toxicity test demonstrates significant lethal and/or sub-lethal effects at or below the critical dilution. The purpose of additional tests (also referred to as 'retests' or confirmation tests) is to determine the duration of a toxic event. A test that meets all test acceptability criteria and demonstrates significant toxic effects does not need additional confirmation. Such testing cannot confirm or disprove a previous test result.

If any valid test demonstrates significant lethal or sub-lethal effects to a test species at or below the critical dilution, the frequency of testing for that species is automatically increased to once per quarter for the life of the permit. In addition:

a. Part I Testing Frequency Other Than Monthly

- i. The permittee shall conduct a total of three (3) additional tests for any species that demonstrates significant toxic effects at or below the critical dilution. The additional tests shall be conducted monthly during the next three consecutive months. If testing on a quarterly basis, the permittee may substitute one of the additional tests in lieu of one routine toxicity test. A full report shall be prepared for each test required by this section in accordance with procedures outlined in Item 4 of this section and submitted with the period discharge monitoring report (DMR) to the permitting authority for review.
- ii. **IF LETHAL EFFECTS HAVE BEEN DEMONSTRATED** If any of the additional tests demonstrates significant lethal effects at or below the critical dilution, the permittee shall initiate Toxicity Reduction Evaluation (TRE) requirements as specified in Item 5 of this section. The permittee shall notify ADEQ in writing within 5 days *of notification* of the failure of any retest, and the TRE initiation date will be the test completion date of the first failed retest. A TRE may also be required due to a demonstration of intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests. A TRE required based on lethal effects should consider any sub-lethal effects as well.
- iii. **IF SUB-LETHAL EFFECTS ONLY HAVE BEEN DEMONSTRATED** If any two of the three additional tests demonstrates significant sub-lethal effects at 75% effluent or lower, the permittee shall initiate the Sub-Lethal Toxicity Reduction Evaluation (TRE_{SL}) requirements as specified in Item 5 of this section. The permittee shall notify ADEQ in writing within 5 days *of notification* of the failure of any retest, and the Sub-Lethal Effects TRE initiation date will be the test completion date of the first failed retest. A TRE may also be required for failure to perform the required retests.

- vii. If a test fails, test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%.
- viii. A Percent Minimum Significant Difference (PMSD) range of 13 - 47 for Ceriodaphnia dubia reproduction;
- ix. A PMSD range of 12 - 30 for Fathead minnow growth.

b. Statistical Interpretation

- i. For the Ceriodaphnia dubia survival test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be Fisher's Exact Test as described in EPA/821/R-02-013 or the most recent update thereof.
- ii. For the Ceriodaphnia dubia reproduction test and the Fathead minnow larval survival and growth test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA/821/R-02-013 or the most recent update thereof.
- iii. If the conditions of Test Acceptability are met in Item 3.a above and the percent survival of the test organism is equal to or greater than 80% in the critical dilution concentration and all lower dilution concentrations, the test shall be considered to be a passing test, and the permittee shall report a survival NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 4 below.

c. Dilution Water

- i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness, and alkalinity to the closest downstream perennial water for:
 - (A) toxicity tests conducted on effluent discharges to receiving water classified as intermittent streams; and
 - (B) toxicity tests conducted on effluent discharges where no receiving water is available due to zero flow conditions.

- v. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in Item 4 of this section.
- vi. MULTIPLE OUTFALLS: If the provisions of this section are applicable to multiple outfalls, the permittee shall combine the composite effluent samples in proportion to the average flow from the outfalls listed in item 1.a. above for the day the sample was collected. The permittee shall perform the toxicity test on the flow-weighted composite of the outfall samples.
- vii. The permittee shall not allow the sample to be dechlorinated at the laboratory. At the time of sample collection the permittee shall measure the TRC of the effluent. The measured concentration of TRC for each sample shall be included in the lab report submitted by the permittee.

4. REPORTING

- a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this section in accordance with the Report Preparation Section of EPA/821/R-02-013, or the most current publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of PART III.C.7 of this permit. The permittee shall submit full reports. For any test which fails, is considered invalid or which is terminated early for any reason, the full report must be submitted for agency review.
- b. A valid test for each species must be reported on the DMR during each reporting period specified in PART I of this permit unless the permittee is performing a TRE which may increase the frequency of testing and reporting. Only ONE set of WET test data for each species is to be recorded on the DMR for each reporting period. The data submitted should reflect the LOWEST lethal and sub-lethal effects results for each species during the reporting period. The full reports for all invalid tests, repeat tests (for invalid tests), and retests (for tests previously failed) performed during the reporting period must be attached to the DMR for Agency review.

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a. Within ninety (90) days of confirming persistent toxicity, the permittee shall submit a Toxicity Reduction Evaluation (TRE) Action Plan and Schedule for conducting a TRE. The TRE Action Plan shall specify the approach and methodology to be used in performing the TRE. A Toxicity Reduction Evaluation is an investigation intended to determine those actions necessary to achieve compliance with water quality-based effluent limits by reducing an effluent's toxicity to an acceptable level. A TRE is defined as a step-wise process which combines toxicity testing and analyses of the physical and chemical characteristics of a toxic effluent to identify the constituents causing effluent toxicity and/or treatment methods which will reduce the effluent toxicity. The goal of the TRE is to maximally reduce the toxic effects of effluent at the critical dilution and includes the following:

- i. Specific Activities. The plan shall detail the specific approach the permittee intends to utilize in conducting the TRE. The approach may include toxicity characterizations, identifications and confirmation activities, source evaluation, treatability studies, or alternative approaches. When the permittee conducts Toxicity Characterization Procedures the permittee shall perform multiple characterizations and follow the procedures specified in the documents 'Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures' (EPA-600/6-91/003) and 'Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I' (EPA-600/6-91/005F), or alternate procedures. When the permittee conducts Toxicity Identification Evaluations and Confirmations, the permittee shall perform multiple identifications and follow the methods specified in the documents 'Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity' (EPA/600/R-92/080) and 'Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity' (EPA/600/R-92/081), as appropriate.

The documents referenced above may be obtained through the National Technical Information Service (NTIS) by phone at (703) 487-4650, or by writing:

U.S. Department of Commerce
National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161

- ii. Sampling Plan (e.g., locations, methods, holding times, chain of custody, preservation, etc.). The effluent sample volume collected for all tests shall be adequate to perform the toxicity test, toxicity characterization, identification and

A copy of the Final Report on Toxicity Reduction Evaluation Activities shall also be submitted to the state agency.

- f. Quarterly testing during the TRE is a minimum monitoring requirement. EPA recommends that permittees required to perform a TRE not rely on quarterly testing alone to ensure success in the TRE, and that additional screening tests be performed to capture toxic samples for identification of toxicants. Failure to identify the specific chemical compound causing toxicity test failure will normally result in a permit limit for whole effluent toxicity limits per federal regulations at 40 CFR 122.44(d)(1)(v).

6. MONITORING FREQUENCY REDUCTION

- a. The permittee may apply for a testing frequency reduction upon the successful completion of the first four consecutive quarters (in accordance with Item 1.a.) of testing for *P. promelas*, with no lethal or sub-lethal effects demonstrated at or below the critical dilution. If granted, the monitoring frequency for *P. promelas* may be reduced to not less than twice per year.
- b. The permittee may apply for a testing frequency reduction upon the successful completion of the first six consecutive WET tests (in accordance with Item 1.a.) for *C. dubia*, with no lethal or sub-lethal effects demonstrated at or below the critical dilution. If granted, the monitoring frequency for *C. dubia* may be reduced to not less than once per quarter. Additionally, if a WET frequency reduction of quarterly was granted, the permittee may apply for a second testing frequency reduction upon the successful completion of the first four consecutive quarters of testing for *C. dubia*, with no lethal or sub-lethal effects demonstrated at or below the critical dilution. If granted, the monitoring frequency for *C. dubia* may be reduced to not less than twice per year.
- c. CERTIFICATION - The permittee must certify in writing that no test failures have occurred and that all tests meet all test acceptability criteria in item 3.a. above. In addition the permittee must provide a list with each test performed including test initiation date, species, NOECs for lethal and sub-lethal effects and the maximum coefficient of variation for the controls. Upon review and acceptance of this information the agency will issue a letter of confirmation of the monitoring frequency reduction. A copy of the letter will be forwarded to the agency's Permit Compliance System section to update the permit reporting requirements.
- d. SUB-LETHAL OR SURVIVAL FAILURES - If any test fails the survival or sub-lethal endpoint at any time during the life of this permit, three monthly retests are required and the monitoring frequency for the affected test species shall be increased to once per quarter until the permit is re-issued. Monthly retesting is not required if the permittee is performing a TRE.

the permit. The Department also reserves the right to require additional monitoring based on the types of wastewater transferred.

20. Mercury Minimization Plan

- The permittee shall develop and implement a Mercury Minimization Program Plan no later than September 1, 2011. This plan shall be submitted to the Permits Branch of the Water Division. This program must be formatted as outlined in the following conditions. The permittee shall submit an annual report to the Permits Branch by October 31, 2012, and each subsequent year of the permit for the activities in the previous September 1 to August 31 time frame. The annual report should include a summary of potential significant sources of mercury, control measures developed and implemented, results of source reduction activities and monitoring, sampling results and any adjustments made to the program plan.
- The permittee shall develop specific plans to identify and eliminate potential significant sources of mercury in the effluent. Methods which may be used are:
 - a. Source Identification:
 - Work with the City of Crossett to identify industrial users with a potential for contributing significant amounts of mercury to the City of Crossett's wastewater treatment lagoons. This includes reviewing EPA standards in 40 CFR Parts 405 through 471 to determine if mercury is a pollutant of concern for a particular industry.
 - Conduct a review of chemicals, processes, and materials which are either stored or handled at the Georgia-Pacific facility to determine if they may contribute significant amounts of mercury.
 - Estimate the amount of mercury in precipitation through use of information available from the National Atmospheric Deposition Program – Mercury Deposition Network. This information is available at <http://nadp.sws.uiuc.edu/>.
 - b. Mercury monitoring:
 - Monitoring of the Georgia-Pacific treatment plant influent and effluent as well as the wastewater received from the City of Crossett.
 - Monitoring at internal points in the Georgia-Pacific facility as required to identify any significant sources of mercury as a result of elevated influent concentrations.
 - Final effluent monitoring (at Outfall 001) shall not be less than once per quarter and must use an EPA approved test method with an MQL of 0.005 µg/l or less. If mercury is non-detectable at the method MQL for a period of four consecutive quarters, then permittee may petition the Permits Branch for a suspension of the monitoring.

PART III STANDARD CONDITIONS

SECTION A – GENERAL CONDITIONS

1. Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Water Act and the Arkansas Water and Air Pollution Control Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; and/or for denial of a permit renewal application. **Any values reported in the required Discharge Monitoring Report (DMR) which are in excess of an effluent limitation specified in Part I shall constitute evidence of violation of such effluent limitation and of this permit.**

2. Penalties for Violations of Permit Conditions

The Arkansas Water and Air Pollution Control Act provides that any person who violates any provisions of a permit issued under the Act shall be guilty of a misdemeanor and upon conviction thereof shall be subject to imprisonment for not more than one (1) year, or a fine of not more than twenty-five thousand dollars (\$25,000) or by both such fine and imprisonment for each day of such violation. Any person who violates any provision of a permit issued under the Act may also be subject to civil penalty in such amount as the court shall find appropriate, not to exceed ten thousand dollars (\$10,000) for each day of such violation. The fact that any such violation may constitute a misdemeanor shall not be a bar to the maintenance of such civil action.

3. Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause including, but not limited to the following:

- a. Violation of any terms or conditions of this permit; or
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
- d. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination.
- e. Failure of the permittee to comply with the provisions of APCEC Regulation No. 9 (Permit fees) as required by Part III.A.10. herein.

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8. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

9. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provisions 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.

10. Permit Fees

The permittee shall comply with all applicable permit fee requirements for wastewater discharge permits as described in APCEC Regulation No. 9 (Regulation for the Fee System for Environmental Permits). Failure to promptly remit all required fees shall be grounds for the Director to initiate action to terminate this permit under the provisions of 40 CFR Parts 122.64 and 124.5 (d), as adopted in APCEC Regulation No. 6 and the provisions of APCEC Regulation No. 8.

SECTION B – OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

- a. 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 this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- b. The permittee shall provide an adequate operating staff which is duly qualified to carryout operation, maintenance, and testing functions required to insure compliance with the conditions of this permit.

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- (c) The permittee submitted notices as required by Part III.B.4.b.
- (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in Part III.B.4.c.(1).

5. Upset Conditions

- a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Part III.B.5.b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- b. Conditions necessary for demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the specific cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated.
 - (3) The permittee submitted notice of the upset as required by Part III.D.6.; and
 - (4) The permittee complied with any remedial measures required by Part III.B.3.
- c. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of waste waters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering the waters of the State. Written approval must be obtained from the ADEQ for land application only.

7. Power Failure

The permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failure either by means of alternate power sources, standby generators, or retention of inadequately treated effluent.

5. Reporting of Monitoring Results

Monitoring results must be reported on a Discharge Monitoring Report (DMR) form (EPA No. 3320-1 or other approved Form by ADEQ). Permittees are required to use preprinted DMR forms provided by ADEQ, unless specific written authorization to use other reporting forms is obtained from ADEQ. Monitoring results obtained during the previous calendar month shall be summarized and reported on a DMR form postmarked no later than the 25th day of the month following the completed reporting period to begin on the effective date of the permit. Duplicate copies of DMR forms signed and certified as required by Part III.D.11. and all other reports required by Part III.D., shall be submitted to the Director at the following address:

Permits Enforcement Branch
Water Division
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

If permittee uses outside laboratory facilities for sampling and/or analysis, the name and address of the contract laboratory shall be included on the DMR.

6. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Such increased frequency shall also be indicated on the DMR.

7. Retention of Records

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Director at any time.

8. Record Contents

Records and monitoring information shall include:

- a. The date, exact place, time and methods of sampling or measurements, and preservatives used, if any;
- b. The individuals(s) who performed the sampling or measurements;

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3. Transfers

The permit is nontransferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act.

4. Monitoring Reports

Monitoring results shall be reported at the intervals and in the form specified in Part III.C.5. **Discharge Monitoring Reports must be submitted even when no discharge occurs during the reporting period.**

5. Compliance Schedule

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

6. Twenty-four Hour Report

- a. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain the following information:
 - (1) a description of the noncompliance and its cause;
 - (2) the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - (3) steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- b. The following shall be included as information which must be reported within 24 hours:
 - (1) Any unanticipated bypass which exceeds any effluent limitation in the permit;
 - (2) Any upset which exceeds any effluent limitation in the permit and
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part I of the permit to be reported within 24 hours to the Enforcement Section of the Water Division of the ADEQ.
- c. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours to the Enforcement Section of the Water Division of the ADEQ.

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11. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as follows:

a. All **permit applications** shall be signed as follows:

(1) For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

(i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

(ii) The manager of one or more manufacturing, production, or operation facilities, provided: the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship: by a general partner or proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency, by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:

(i) The chief executive officer of the agency, or

(ii) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

b. All **reports** required by the permit and **other information** requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described above.

(2) The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

(3) The written authorization is submitted to the Director.

c. Certification. Any person signing a document under this section shall make the following certification:

PART IV DEFINITIONS

All definitions contained in Section 502 of the Clean Water Act shall apply to this permit and are incorporated herein by reference. Additional definitions of words or phrases used in this permit are as follows:

1. **"Act"** means the Clean Water Act, Public Law 95-217 (33.U.S.C. 1251 et seq.) as amended.
2. **"Administrator"** means the Administrator of the U.S. Environmental Protection Agency.
3. **"Applicable effluent standards and limitations"** means all State and Federal effluent standards and limitations to which a discharge is subject under the Act, including, but not limited to, effluent limitations, standards of performance, toxic effluent standards and prohibitions, and pretreatment standards.
4. **"Applicable water quality standards"** means all water quality standards to which a discharge is subject under the federal Clean Water Act and which has been (a) approved or permitted to remain in effect by the Administrator following submission to the Administrator pursuant to Section 303(a) of the Act, or (b) promulgated by the Director pursuant to Section 303(b) or 303(c) of the Act, and standards promulgated under (APCEC) Regulation No. 2, as amended.
5. **"Bypass"** means the intentional diversion of waste streams from any portion of a treatment facility.
6. **"Daily Discharge"** means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling.
Mass Calculations: For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total mass of pollutant discharged over the sampling day.
Concentration Calculations: For pollutants with limitations expressed in other units of measurement, determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the "daily discharge" determination of concentration shall be the arithmetic average (weighted by flow value) of all the samples collected during that sampling day by using the following formula: where C= daily concentration, F=daily flow and n=number of daily samples

$$\frac{C_1F_1 + C_2F_2 + \dots + C_nF_n}{F_1 + F_2 + \dots + F_n}$$

7. **"Monthly average"** 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. For Fecal Coliform Bacteria (FCB) report the monthly average (see 30-day average below).

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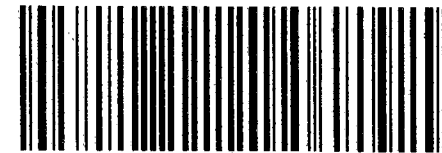
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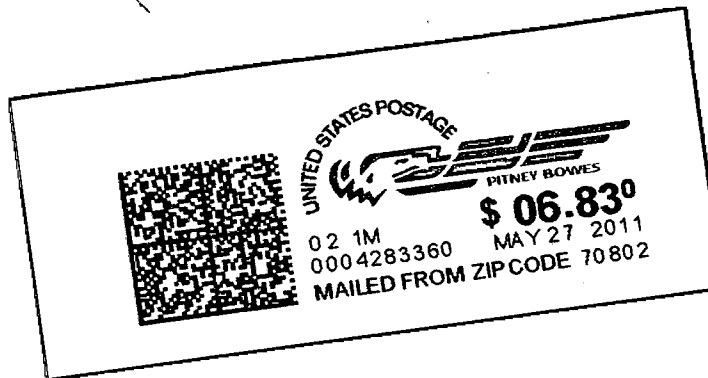
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20. **"24-hour composite sample"** consists of a minimum of 12 effluent portions collected at equal time intervals over the 24-hour period and combined proportional to flow or a sample collected at frequent intervals proportional to flow over the 24-hour period.
21. **"12-hour composite sample"** consists of 12 effluent portions, collected no closer together than one hour and composited according to flow or a sample collected at frequent intervals proportional to flow over the 12-hour period.
22. **"6-hour composite sample"** consists of six effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow or a sample collected at frequent intervals proportional to flow over the 6-hour period.
23. **"3-hour composite sample"** consists of three effluent portions collected no closer together than one hour (with the first portion collected no earlier than 10:00 a.m.) and composited according to flow or a sample collected at frequent intervals proportional to flow over the 3-hour period.
24. **"Treatment works"** means any devices and systems used in storage, treatment, recycling, and reclamation of municipal sewage and industrial wastes, of a liquid nature to implement section 201 of the Act, or necessary to recycle reuse water at the most economic cost over the estimated life of the works, including intercepting sewers, sewage collection systems, pumping, power and other equipment, and alterations thereof; elements essential to provide a reliable recycled supply such as standby treatment units and clear well facilities, and any works, including site acquisition of the land that will be an integral part of the treatment process or is used for ultimate disposal of residues resulting from such treatment.
25. **"Upset"** means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. Any upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, lack of preventive maintenance, or careless of improper operations.
26. **"For Fecal Coliform Bacteria (FCB)"**, a sample consists of one effluent grab portion collected during a 24-hour period at peak loads. For Fecal Coliform Bacteria (FCB) report the monthly average as a 30-day geometric mean in colonies per 100 ml.
27. **"Dissolved oxygen limit"**, shall be defined as follows:
 - a. When limited in the permit as a monthly average minimum, shall mean the lowest acceptable monthly average value, determined by averaging all samples taken during the calendar month;
 - b. When limited in the permit as an instantaneous minimum value, shall mean that no value measured during the reporting period may fall below the stated value.
28. **The term "MGD"** shall mean million gallons per day.
29. **The term "mg/l"** shall mean milligrams per liter or parts per million (ppm).
30. **The term "µg/l"** shall mean micrograms per liter or parts per billion (ppb).
31. **The term "cfs"** shall mean cubic feet per second.
32. **The term "ppm"** shall mean parts per million.
33. **The term "s.u."** shall mean standard units.

CERTIFIED MAIL™



7008 3230 0001 2852 6438



ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

To:

Loretta Reiber, P.E.
Permits Branch, Water Div.
Arkansas Dept. of Environmental Quality
5301 Northshore Dr.
North Little Rock, Arkansas 72118-5317

