

Georgia-Pacific Consumer Operations LLC Consumer Products

Crossett Paper Operations 100 Mill Supply Road P.O. Box 3333 Crossett, AR 71635 (870) 567-8000 (870) 364-9076 (fax) www.qp.com

March 1, 2021

Bryan Leamons, P.E.
Senior Operations Manager
Office of Water Quality
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

RE: NPDES Permit No. AR0001210, AFIN 02-00013

Georgia-Pacific Consumer Operations LLC: Crossett Paper Operations

pH Adjustment Trial Interim Status Report

Dear Mr. Leamons:

Georgia-Pacific Consumer Operations LLC (GP) is providing a pH Adjustment Trial (Trial) interim status report consistent with the requirements in ADEQ's trial approval letter dated October 25, 2019. As anticipated, the adjustment of the effluent pH has been necessary due to significant process changes at the paper mill which affected the wastewater characteristics.

GP continued to comply with the terms and conditions of NPDES Permit No. AR0001210 throughout the Trial. In an email dated November 5, 2019, GP notified the OWQ within 24 hours of the expected start of the Trial that GP elected to inject carbon dioxide (CO<sub>2</sub>) upstream of Outfall 001 and SMS 002 when needed. GP also provided the safety data sheet (SDS) for CO<sub>2</sub> to ADEQ prior to initating the Trial. The length of the Trial has not exceeded 12 months as indicated in our letter dated December 2, 2020. A trial extension through May 31, 2021 was approved in ADEQ's letter dated January 12, 2021.

Although the Trial has not ended, GP is submitting this interim status report ahead of the upcoming NPDES Construction Permit Only application for a permanent CO<sub>2</sub> supply system upstream of Outfall 001. This submittal includes CO<sub>2</sub> usage information, the results of the Trial and next steps. As required by ADEQ's October 25, 2019 letter, the monitoring frequency for pH increased to a minimum of five times per week after the Trial commenced. The Outfall 001 and SMS 002 pH data is available in Appendix 1.

<u>Footnote 1</u>: GP reported a violation of Part I, Section A of our NPDES permit due to a TSS daily maximum exceedance at SMS 002 on 8/31/2020 due to Hurricane Laura related weather conditions unrelated to the ph Adjustment Trial. This Trial has allowed GP to continue to comply with permit provisions.

TABLE 1: CO<sub>2</sub> Usage Information

Month	No. of CO2 Injection Days	Average Time of Day When CO2 Operated
May 2020	7	1:40 PM
June 2020		12:16 PM
January 2021	10	12:37 PM

TABLE 2: pH Adjustment Trial Results

	Data
Percent CO <sub>2</sub> System In Control (i.e. pH < 9)	96%
Percent of Time CO <sub>2</sub> Injection Utilized in 2020	6%
Percent of Time CO <sub>2</sub> Injection Utilized in January 2021	32%

Based on a Trial data review, the CO<sub>2</sub> system controlled the effluent pH 96% of the time when the system was operating. GP plans to make the pH adjustment permanent by submitting a construction application for installing a CO<sub>2</sub> injection system at Outfall 001 and making the CO<sub>2</sub> supply system at SMS 002 permanent.

If you have any questions regarding this response, please contact Rachel Johnson, Environmental Engineer, at (870) 415-6352 or by email at <a href="mailto:Rachel.Johnson2@gapac.com">Rachel.Johnson2@gapac.com</a>.

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.

Sincerely,

Tommy D. Smith

Vice President of Manufacturing

3-/-2021 DATE

	Outfall	0110 000		Outfall	SMS 002		Outfall	A GRANDER MANAGER		Outfall	SMS
	001	SMS 002		001	31013 002		001	002		001	002
Date	рН	рН	Date	рН	рН	Date	рН	рН	Date	рН	рН
5/1/2020	6 <b>6</b> 100 20 CH	Flooded	6/1/2020	7.1	Flooded	7/1/2020	6.8	Flooded	8/1/2020		
5/2/2020			6/2/2020	7.2		7/2/2020	6.8		8/2/2020	7.7	7.7
5/3/2020	7.0	100	6/3/2020	7.2		7/3/2020			8/3/2020	7.3	7.8
5/4/2020	6.9		6/4/2020	7.2		7/4/2020			8/4/2020	7.3	7.8
5/5/2020	6.9		6/5/2020			7/5/2020	6.9	5 1 50	8/5/2020	7.3	7.9
5/6/2020	6.9		6/6/2020			7/6/2020	6.9		8/6/2020	7.4	7.3
5/7/2020	6.9		6/7/2020	7.9		7/7/2020	6.9		8/7/2020		
5/8/2020			6/8/2020	7.7		7/8/2020	7.0		8/8/2020	20720	
5/9/2020			6/9/2020	7.6		7/9/2020	6.9		8/9/2020	7.7	7.7
5/10/2020	6.7		6/10/2020	7.6		7/10/2020			8/10/2020	7.7	7.8
5/11/2020			6/11/2020	7.5		7/11/2020			8/11/2020	7.7	7.7
5/12/2020			6/12/2020			7/12/2020	6.9		8/12/2020	8.0	7.5
5/13/2020			6/13/2020			7/13/2020	6.8		8/13/2020	7.7	7.4
5/14/2020	7.0		6/14/2020	7.3		7/14/2020	6.9		8/14/2020		
5/15/2020			6/15/2020	7.2		7/15/2020	7.2		8/15/2020	122 (22)	
5/16/2020			6/16/2020	7.0		7/16/2020	7.4		8/16/2020	7.5	7.9
5/17/2020	7.0		6/17/2020	7.0		7/17/2020			8/17/2020	7.6	7.2
5/18/2020	6.9		6/18/2020	8.2		7/18/2020			8/18/2020	7.6	7.9
5/19/2020	6.9		6/19/2020			7/19/2020			8/19/2020	7.5	7.5
5/20/2020	7.2		6/20/2020			7/20/2020			8/20/2020	7.5	7.5
5/21/2020	7.4		6/21/2020	7.5		7/21/2020			8/21/2020		
5/22/2020	į		6/22/2020	7.6		7/22/2020			8/22/2020		7.0
5/23/2020			6/23/2020	7.6		7/23/2020			8/23/2020		7.3
5/24/2020	7.2		6/24/2020	7.6		7/24/2020			8/24/2020		7.2
5/25/2020	7.4		6/25/2020	7.1		7/25/2020			8/25/2020		7.7
5/26/2020			6/26/2020			7/26/2020			8/26/2020		7.5
5/27/2020	7.7		6/27/2020			7/27/2020			8/27/2020		7.7
5/28/2020	7.5		6/28/2020	6.8		7/28/2020			8/28/2020		
5/29/2020	)		6/29/2020	7.1		7/29/2020			8/29/2020		0.7
5/30/2020			6/30/2020	6.7		7/30/2020			8/30/2020		6.7
5/31/2020						7/31/2020			8/31/2020	7.7	6.7

	Outfall	SMS		Outfall	SMS		Outfall	SMS		Outfall	SMS
	001	002		001	002		001	002		001	002
Date	pH	pН	Date	рH	На	Date	На	рН	Date	рН	рН
9/1/2020	7.6	6.8	10/1/2020	7.4		11/1/2020	7.6	7.6	12/1/2020	7.4	7.5
9/2/2020	7.5	6.7	10/2/2020			11/2/2020	8.7	8.0	12/2/2020	7.4	7.4
9/3/2020	7.7	0.7	10/3/2020		10	11/3/2020	7.9	8.3	12/3/2020	7.3	7.3
9/4/2020	1.1		10/4/2020	7.4		11/4/2020	7.6	7.8	12/4/2020		
9/5/2020			10/5/2020	7.4	1.0	11/5/2020	7.6	7.8	12/5/2020		
9/6/2020	7.6		10/6/2020	7.1		11/6/2020			12/6/2020	7.4	7.3
9/7/2020	7.5		10/7/2020	7.3	37	11/7/2020			12/7/2020	7.4	7.3
9/8/2020	7.5 7.5		10/8/2020	7.4	s sixts	11/8/2020	7.7	7.8	12/8/2020	7.4	7.3
9/9/2020	7.5	and the	10/9/2020			11/9/2020	7.5	7.7	12/9/2020	7.4	7.4
9/10/2020	7.4		10/10/2020			11/10/2020	7.3	7.1	12/10/2020	7.3	7.3
9/11/2020	1.7		10/11/2020	7.2		11/11/2020	7.2	7.2	12/11/2020		
9/12/2020		Ar Carl	10/12/2020	7.1	1.	11/12/2020	7.2	7.2	12/12/2020		Sample Sales
9/13/2020	7.4		10/13/2020	7.0		11/13/2020			12/13/2020	8.2	7.2
9/14/2020	7.5		10/14/2020	7.0		11/14/2020			12/14/2020	7.4	6.9
9/15/2020	7.5		10/15/2020	7.1		11/15/2020	7.3	7.5	12/15/2020	7.4	7.0
9/16/2020	7.5		10/16/2020			11/16/2020	7.3	7.2	12/16/2020	7.5	7.1
9/17/2020	7.5		10/17/2020			11/17/2020	7.3	7.6	12/17/2020	7.2	7.0
9/18/2020			10/18/2020	7.1		11/18/2020	7.3	7.5	12/18/2020		
9/19/2020			10/19/2020	7.1		11/19/2020	7.2	7.6	12/19/2020	22.5	20.0
9/20/2020	7.5		10/20/2020	7.2		11/20/2020			12/20/2020	7.1	6.9
9/21/2020	7.5		10/21/2020	7.1		11/21/2020			12/21/2020	7.1	6.5
9/22/2020	7.5		10/22/2020	7.1		11/22/2020	6.7	7.6	12/22/2020	7.1	6.9
9/23/2020	7.5		10/23/2020			11/23/2020	7.3	7.1	12/23/2020	7.1	
9/24/2020	7.5		10/24/2020			11/24/2020	7.3	7.6	12/24/2020	7.1	
9/25/2020			10/25/2020	7.1		11/25/2020	7.3	7.7	12/25/2020		
9/26/2020			10/26/2020	7.2		11/26/2020	7.3	7.5	12/26/2020	- 4	
9/27/2020	7.4		10/27/2020	7.1		11/27/2020			12/27/2020	7.1	
9/28/2020	7.4		10/28/2020	7.1		11/28/2020			12/28/2020	7.1	
9/29/2020	7.4		10/29/2020	8.3		11/29/2020	7.4	7.3	12/29/2020	7.1	
9/30/2020	7.4		10/30/2020			11/30/2020	7.4	7.3	12/30/2020	7.2	
			10/31/2020						12/31/2020	7.2	

P	6 / 1			Outfall	
	Outfall	SMS 002		001	SMS 002
Data	001	рН	Date	Hq	рН
Date	рН	Flooded	2/1/2021	7.5	Flooded
1/1/2021		riooded	2/1/2021	7.6	1 100000
1/2/2021	7.4		2/3/2021	7.5	
1/3/2021	7.1		2/4/2021	7.4	
1/4/2021	7.1		2/5/2021	7.4	7
1/5/2021	7.0		2/6/2021		
1/6/2021	7.1		2/7/2021	7.4	
1/7/2021	7.1		2/1/2021	7.4	
1/8/2021				7.4	
1/9/2021			2/9/2021	7.3 7.4	
1/10/2021	7.5		2/10/2021	7.4	
1/11/2021	7.5		2/11/2021	1.3	
1/12/2021	7.9		2/12/2021		
1/13/2021	7.6		2/13/2021	7.6	
1/14/2021	7.8		2/14/2021	7.6 7.5	
1/15/2021			2/15/2021	7.5 7.2	
1/16/2021	(CS) 0		2/16/2021	7.Z 7.7	
1/17/2021	7.8		2/17/2021		
1/18/2021	7.8		2/18/2021	7.4	
1/19/2021	7.7		2/19/2021		
1/20/2021	7.4		2/20/2021	7.4	
1/21/2021	7.4		2/21/2021	7.4	
1/22/2021			2/22/2021	7.4	
1/23/2021			2/23/2021	7.3	
1/24/2021	7.5		2/24/2021		
1/25/2021	7.3		2/25/2021		
1/26/2021	7.4		2/26/2021		
1/27/2021	7.4		2/27/2021		
1/28/2021	7.6		2/28/2021		
1/29/2021					
1/30/2021					
1/31/2021	7.5		1		