environmental® STANDARDS	ON-SITE LABORATORY AUDIT						
Audit Sponsor	Georgia-Pacific LLC						
Laboratory Name	Crossett Mill						
Laboratory Street Address	100 Mill Supply Road						
Laboratory City State Zip	Crossett, AR, 71635						
Audit Start Date	8/31/21						
Audit End Date	8/31/21						
Audit Team Member	Gary P. Yakub						
Scope of Audit	Quality Management System						
	Data Reduction and Reporting						
	Sample Management						
	Biochemical Oxygen Demand by Standard Method 5210						
	pH by Standard Method 4500H+						
	Total Suspended Solids by Standard Method 2540D						
Standard	Analytical Methods						
Standard	Laboratory Quality Documents: QAM and SOPs						
Date Pre-Audit Requested	7/27/21						
Date Pre-Audit Received	8/21/21						
Date Draft Report Issued	9/17/21						
Date Laboratory Requested to Reply	NA						
Date Laboratory Reply Received	NA						
Date Report Finalized	*						
Date Response Requested	NA						
Date Response Received	NA						
Date Response Adequacy Assessed	NA						

SUMMARY OF FINDINGS

Number of Administrative Findings	0
Number of Method Requirement Findings	5
Number of Quality System Requirement Findings	4

This audit report has been prepared by Environmental Standards, Inc. for Georgia-Pacific LLC and Crossett Mill. This file has been presented for factual review and should not be utilized for any other purpose.



Crossett Mill Located at Crossett, Arkansas , Findings of On-Site Laboratory Audit Conducted on August 31, 2021, by Environmental Standards, Inc.

SYSTEM	QUALITY MANAGEMENT SYSTEM	DATA REDUCTION AND REPORTING	GENERAL CHEMISTRY	GENERAL CHEMISTRY	GENERAL CHEMISTRY	GENERAL CHEMISTRY	GENERAL CHEMISTRY	GENERAL CHEMISTRY	GENERAL CHEMISTRY	GENERAL CHEMISTRY	GENERAL CHEMISTRY	SAMPLE MANAGEMENT	SAMPLE MANAGEMENT		GROUPING
GENERAL LABORATORY OPERATIONS	GENERAL LABORATORY OPERATIONS	DATA REVIEW AND REPORTING	TOTAL SUSPENDED SOLIDS BY STANDARD METHOD 2540D	PH BY STANDARD METHOD 4500H+	PH BY STANDARD METHOD 4500H+	PH BY STANDARD METHOD 4500H+	BIOCHEMICAL OXYGEN DEMAND BY STANDARD METHOD 5210	BIOCHEMICAL OXYGEN DEMAND BY STANDARD METHOD 5210	BIOCHEMICAL OXYGEN DEMAND BY STANDARD METHOD 5210	BIOCHEMICAL OXYGEN DEMAND BY STANDARD METHOD 5210	BIOCHEMICAL OXYGEN DEMAND BY STANDARD METHOD 5210	SAMPLE RECEIVING AND STORAGE	BOTTLEWARE AND PRESERVATION		AUDIT AREA
	8				7	6		51	4	ఆ	2				FINDING NUMBER
SUGGESTION	METHOD_REQUIREMENT			COMMENT	QUALITY_SYSTEM_REQUIR EMENT	QUALITY_SYSTEM_REQUIR EMENT	COMMENT	METHOD_REQUIREMENT	METHOD_REQUIREMENT	METHOD_REQUIREMENT	METHOD_REQUIREMENT	QUALITY_SYSTEM_REQUIR EMENT			DESCRIPTOR
Provide basic laboratory skills training for the Analysts. Some procedures and actions were observed that would be considered inappropriate (i.e., banging the pH probe on a paper towel on the bench to dry it, pipetting a measured volume by pouring the measured sample out of the top of the pipette as opposed to letting it drain out the calibrated tip, using pencil to document analytical work).	The Analyst described sieving the 24-hour composite sample through a 150-µm sieve prior to analyzing for BOD and TSS.	No findings were observed in this area, other than those specific notations made in each section of this report.	No findings were observed in this area, other than those specific notations made in each section of this report.	Inconsistent stirring of buffers and samples was noted for the pH calibrations and sample analysis. Stir both standards and samples in a consistent manner so that inconsistent sample manipulation does not affect the calibration or sample results.	The calibration buffers were observed stored out on the bench in uncovered beakers for up to a week.	The SOP did not note acceptance criteria for either the calibration check buffer or the calibration slope.	Elevated initial DO readings indicated potential supersaturation of oxygen in the dilution water. This was confirmed by shaking a sample of dilution water in a container and noting a decrease in the DO level. The supersaturation did not appear to cause issues with the dilution water blanks.	The Auditor could not verify the correct concentration of mineral solutions was added to the BOD dilution water due to an unknown total volume of the container.	The Analyst did not seed the effluent compliance sample; SM 5210B-2016 however, evidence suggested potential elevated pH in the pond upstream of the effluent due to algae blooms.	The Analyst adjusted the sample pH to 7, even if the initial pH value was within the range as noted in the	The Analyst only set up one BOD dilution water blank bottle with each set.	The Analyst did not document the temperature of the refrigerator used to hold sub-contract samples to verify acceptable sample storage conditions, including storage of samples at < 6°C where required.		(To be completed by Environmental Standards)	FINDING
	SM 5210B - 2016 SM 2540D - 2015				SM 4500 H+ B Section 3a	SM 4500 H+ B Section 4a		SM 5210B-2016 Section 5a	SM 5210B-2016 Section 4b1	SM 5210B-2016 Section 4b1	SM 5210B-2016 Section 6c	40 CFR Part 136.3 Table II		tal Standards)	CITATION
	Perform the analysis according to the procedures specified in those methods. The use of the sieve must be discontinued.				Store the buffers in a closed container to prevent evaporation and changes to the certified values.	Document the acceptance criteria for both checks to ensure correct assessment of the pH calibrations.		Confirm the actual volume of the BOD dilution water containers so that the correct amount of mineral solutions can be determined.	investigate if seeding the effluent samples is necessary based on the nature of the microbial population in the effluent.	Adjust the pH of the samples only if necessary (i.e., pH is outside of the 6 to 8 range).	Set up a minimum of two blank bottles as directed in the reference method.	Document a daily storage temperature (each day in use). Samples collected and shipped to subcontract laboratories must meet storage requirements as noted in the Methods and US EPA regulations.			RECOMMENDATION



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SYSTEM VERIFICATIONS QUALITY MANAGEMENT PERSONNEL TRAINING AND SYSTEM RECORDS QUALITY MANAGEMENT QUALITY ASSURANCE SYSTEM DOCUMENTATION No findings were observed in this area. No findings were observed in this area. Specific notations made in each section of this report.	MANAGEMENT LOGBOOKS AND NOTEBOOKS MANAGEMENT METHOD DETECTION LIMITS AND	GENERAL SUPPORT EQUIPMENT, INSTRUMENTATION, AND CALIBRATION	GROUPING AUDIT AREA FINDING NUMBER DESCRIPTOR
No findings were observed in this area.	No findings were observed in this area, other than those specific notations made in each section of this report.	The Analyst checked the balance calibration at 20 g; however, the filter weights were observed to be around 0.08-0.10 g. The Auditor suggested checking the balance calibration closer to the range of use (i.e., check balance at 0.1 g). Acceptance criteria should be developed for this check.	FINDING (To be completed by Environmental Standards)
		or extractive of	CITATION
			RECOMMENDATION