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March 14, 2019

Ms. Lori Simmons Arkansas Department of Health 4815 West Markham Street Little Rock, Arkansas 72205 Via email Lori.Simmons@arkansas.gov

Re: Georgia-Pacific, Crossett Mill - Biweekly Air Monitoring Report for Hydrogen Sulfide

Dear Ms. Simmons,

Please find the following biweekly report for the Georgia-Pacific (GP) Crossett Mill hydrogen sulfide (H₂S) and meteorological monitoring program covering the calendar period of February 20, 2019 through March 5, 2019.

Summary of Results

Included in this report are three plots presenting H_2S concentrations across different rolling average periods (30-minute, 8-hour, and 24-hour), daily 1-point quality control (QC) checks with precision and bias estimates and time series plots for all recorded meteorological (met) parameters for the two week period.

Data Quality

The Quality Assurance Project Plan (QAPP) establishes measurement quality objectives (MQOs) for H₂S regarding precision and bias expressed as a coefficient of variation (CV) <10% and \pm 10%, respectively. Precision and bias are calculated in accordance with 40 CFR Part 58 Appendix A, Section 4.1. Precision and bias calculations are presented on page six of this report.

Results for available automated daily 1-point QC checks were within the accuracy objective, \pm 10%, indicating the H₂S monitor was operating in accordance with MQOs as stated in the QAPP.

During this reporting period two automated zero checks were performed. The results for these zero checks are presented on the following page.



Date	Zero Check Response (ppb)				
2/20/2019	0.4				
2/27/2019	0.4				

Data Capture

There were no occurrences of H₂S data loss this monitoring period, other than those resulting from automated daily 1-point QC and weekly calibration checks.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final charts. All met parameters have 100% data capture for this report period.

Please feel free to contact me if you have any questions or need any additional data.

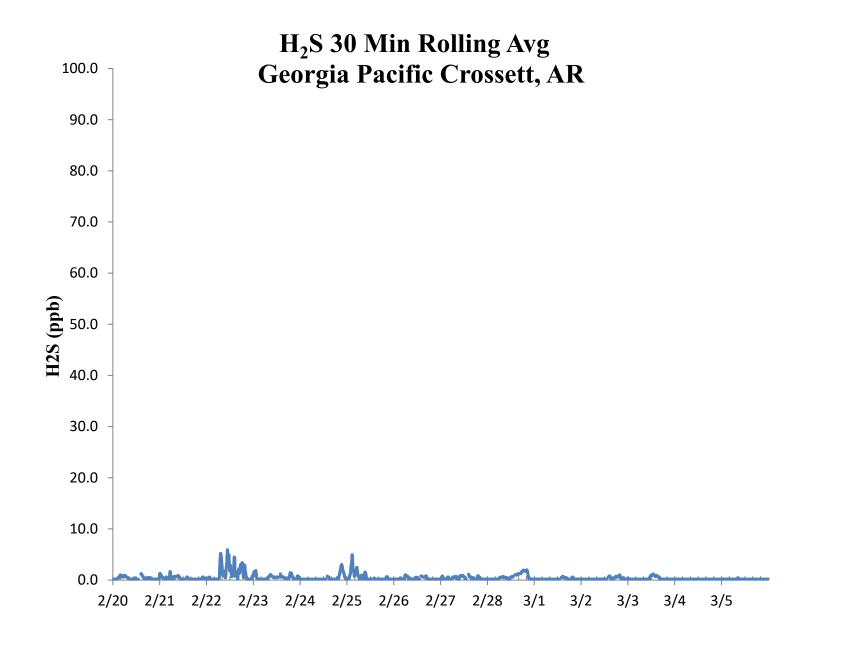
Sincerely,

Jonathan Bowser Manager, Air Quality and Meteorological Monitoring

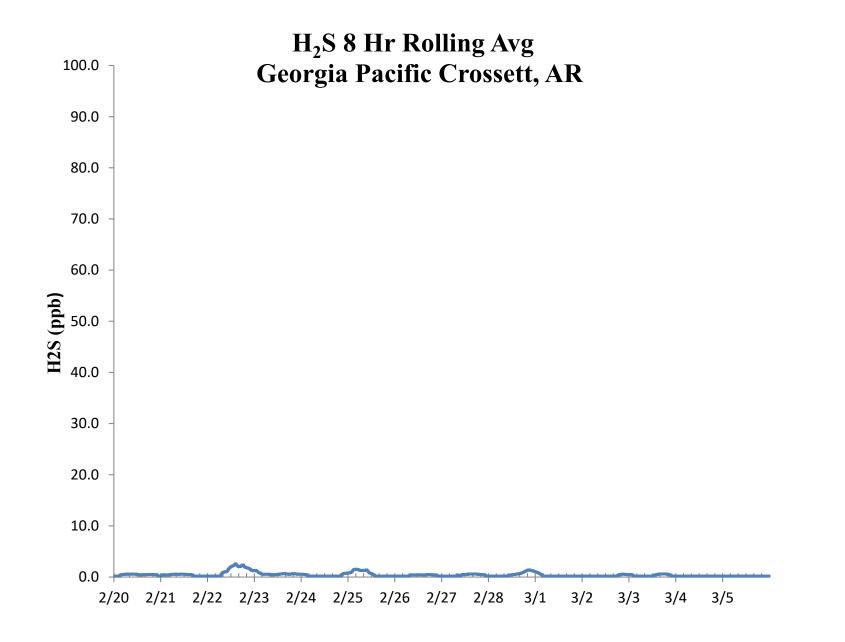
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CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov

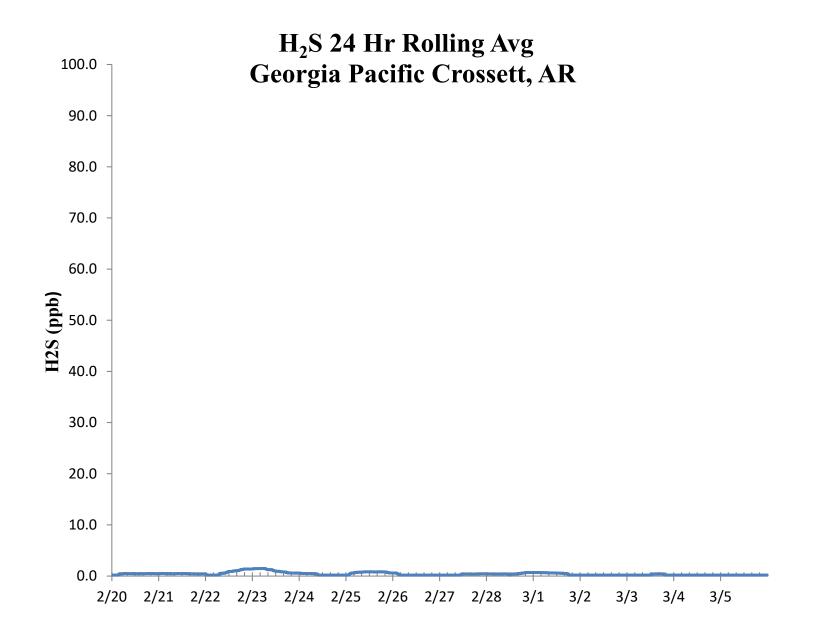














GP - Crossett, AR			Compound of Interest: H ₂ S				CV _{ub} (%)		Bias (%)		
Date	Meas Val (Y)	Input Val (X)	d (Eqn. 1)	25th Percentile	d ²	d	d ²				
2/20/2019 13:00	74.1	70.0	5.9	4.143	34.306	5.857	34.306				
2/21/2019 13:00	74.1	70.0	5.9	75th Percentile	34.306	5.857	34.306 r	n S _d	S _{d2}	Σ d	"AB" (Eqn 4)
2/22/2019 13:00	73.8	70.0	5.4	5.857	29.469	5.429	29.469	14 1.490	14.017	70.429	5.031
2/23/2019 13:00	75.2	70.0	7.4		55.184	7.429	55.184 n·	-1 ∑d	∑d²	$\Sigma \mathbf{d} ^2$	"AS" (Eqn 5)
2/24/2019 13:00	72.8	70.0	4.0		16.000	4.000	16.000	13 70.429	383.163	383.163	1.490
2/25/2019 13:00	72.8	70.0	4.0		16.000	4.000	16.000				
2/26/2019 13:00	74.0	70.0	5.7		32.653	5.714	32.653			Bias (%) (Eqn 3)	Both Signs Positive
2/27/2019 13:00	74.1	70.0	5.9		34.306	5.857	34.306			5.74	TRUE
2/28/2019 13:00	74.7	70.0	6.7		45.082	6.714	45.082	CV (%) (Eqn 2)		Signed Bias (%)	Both Signs Negative
3/1/2019 13:00	73.8	70.0	5.4		29.469	5.429	29.469	2.02		+5.74	FALSE
3/2/2019 13:00	73.2	70.0	4.6		20.898	4.571	20.898				
3/3/2019 13:00	73.5	70.0	5.0		25.000	5.000	25.000	Upper Probabili	ty Limit	Lower Probability	/ Limit
3/4/2019 13:00	71.7	70.0	2.4		5.898	2.429	5.898	7.95		2.11	
3/5/2019 13:00	71.5	70.0	2.1		4.592	2.143	4.592	-			

H₂S Assessment

