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January 15, 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 December 26, 2018 through January 8, 2019.

Summary of Results

Included in this report are three plots presenting H₂S 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)				
12/26/2018	-0.2				
1/2/2019	-0.2				

Data Capture

There were multiple brief occurrences of H₂S data loss this monitoring period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. Communications were interrupted, resulting in brief losses (< 15 minutes) of H₂S data, on January 7th and 8th.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final charts. The same communication interruption mentioned above caused similar losses brief of met data on January 7th and 8th.

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

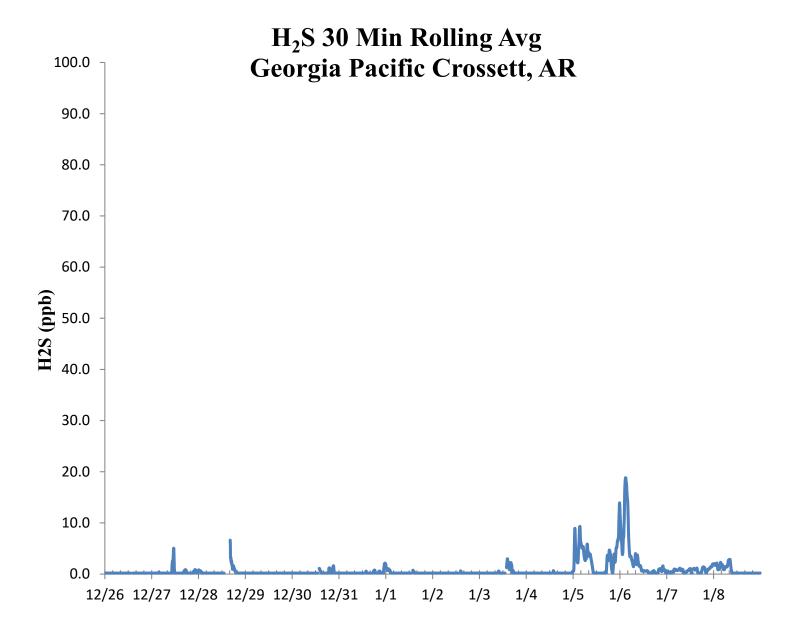
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Email: jbowser@trcsolutions.com

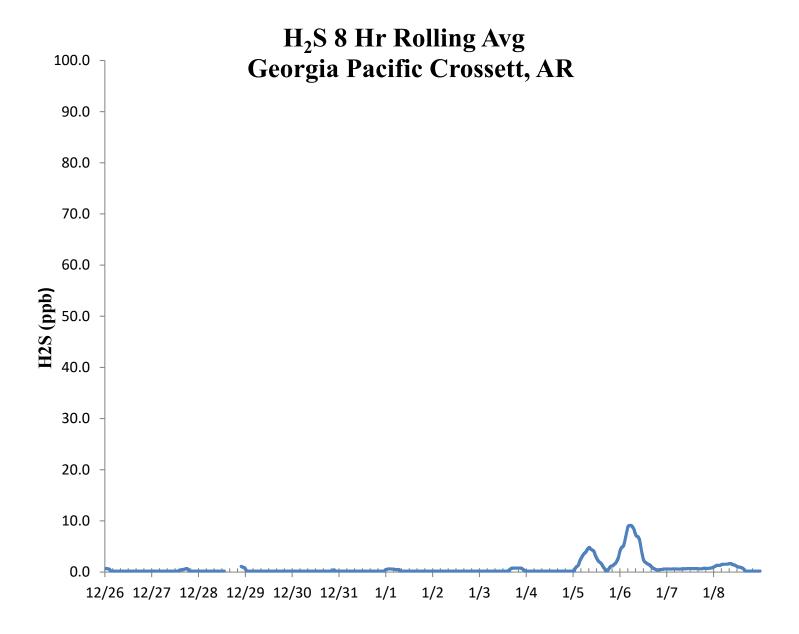
CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov



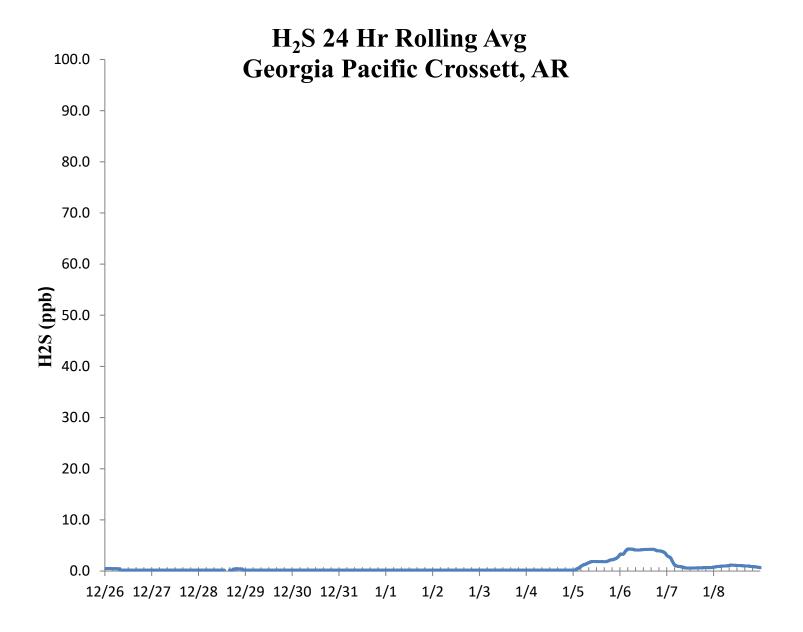














H₂S Assessment

Gl	P - Crossett, AF	₹	Compound	of Interest: H ₂ S				CV _{ub} (%)]	Bias (%)	
Date	Meas Val (Y)	Input Val (X)	d (Eqn. 1)	25th Percentile	d²	d	d ²				
12/26/2018 13:00	70.5	70.0	0.7	0.214	0.510	0.714	0.510				
12/27/2018 13:00	70.3	70.0	0.4	75th Percentile	0.184	0.429	0.184 n	S _d	S _{d2}	∑ d	"AB" (Eqn 4)
12/28/2018 13:00	70.4	70.0	0.6	0.964	0.327	0.571	0.327 1	4 0.710	1.058	10.571	0.755
12/29/2018 13:00	69.5	70.0	-0.7		0.510	0.714	0.510 n-	1 ∑d	\sum d ²	$\sum d ^2$	"AS" (Eqn 5)
12/30/2018 13:00	70.1	70.0	0.1		0.020	0.143	0.020 1	3 8.571	11.796	11.796	0.542
12/31/2018 13:00	70.7	70.0	1.0		1.000	1.000	1.000				
1/1/2019 13:00	69.9	70.0	-0.1		0.020	0.143	0.020			Bias (%) (Eqn 3)	Both Signs Positive
1/2/2019 13:00	69.9	70.0	-0.1		0.020	0.143	0.020			1.01	TRUE
1/3/2019 13:00	70.4	70.0	0.6		0.327	0.571	0.327	CV (%) (Eqn 2)	:	Signed Bias (%)	Both Signs Negative
1/4/2019 13:00	70.6	70.0	0.9		0.735	0.857	0.735	0.96		+1.01	FALSE
1/5/2019 13:00	70.3	70.0	0.4		0.184	0.429	0.184		_		
1/6/2019 13:00	71.0	70.0	1.4		2.041	1.429	2.041	Upper Probabili	ity Limit	Lower Probability	y Limit
1/7/2019 13:00	71.3	70.0	1.9		3.449	1.857	3.449	2		-0.78	
1/8/2019 13:00	71.1	70.0	1.6		2.469	1.571	2.469				

