

December 19, 2018



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December 19, 2018

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 November 28, 2018 through December 11, 2018.

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 ± 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, ± 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)
11/28/2018	-0.2
12/5/2018	-0.5

Data Capture

There was a single occurrence of H₂S data loss this monitoring period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. A server failure was responsible for approximately 20 minutes of H₂S data loss on December 11th.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final charts. A server failure was responsible for approximately 20 minutes of data loss of all met parameters on December 11th.

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

Sincerely,

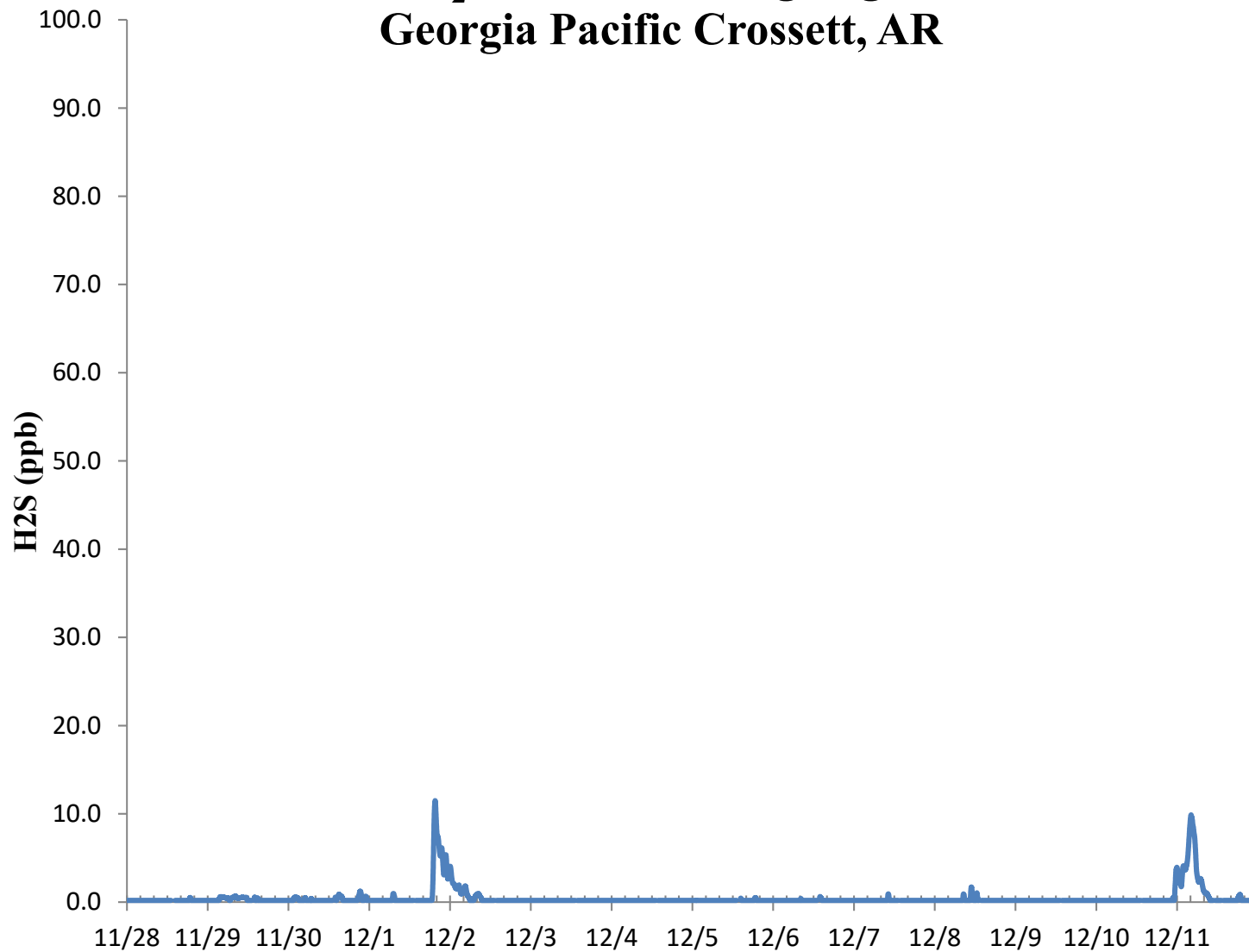


Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

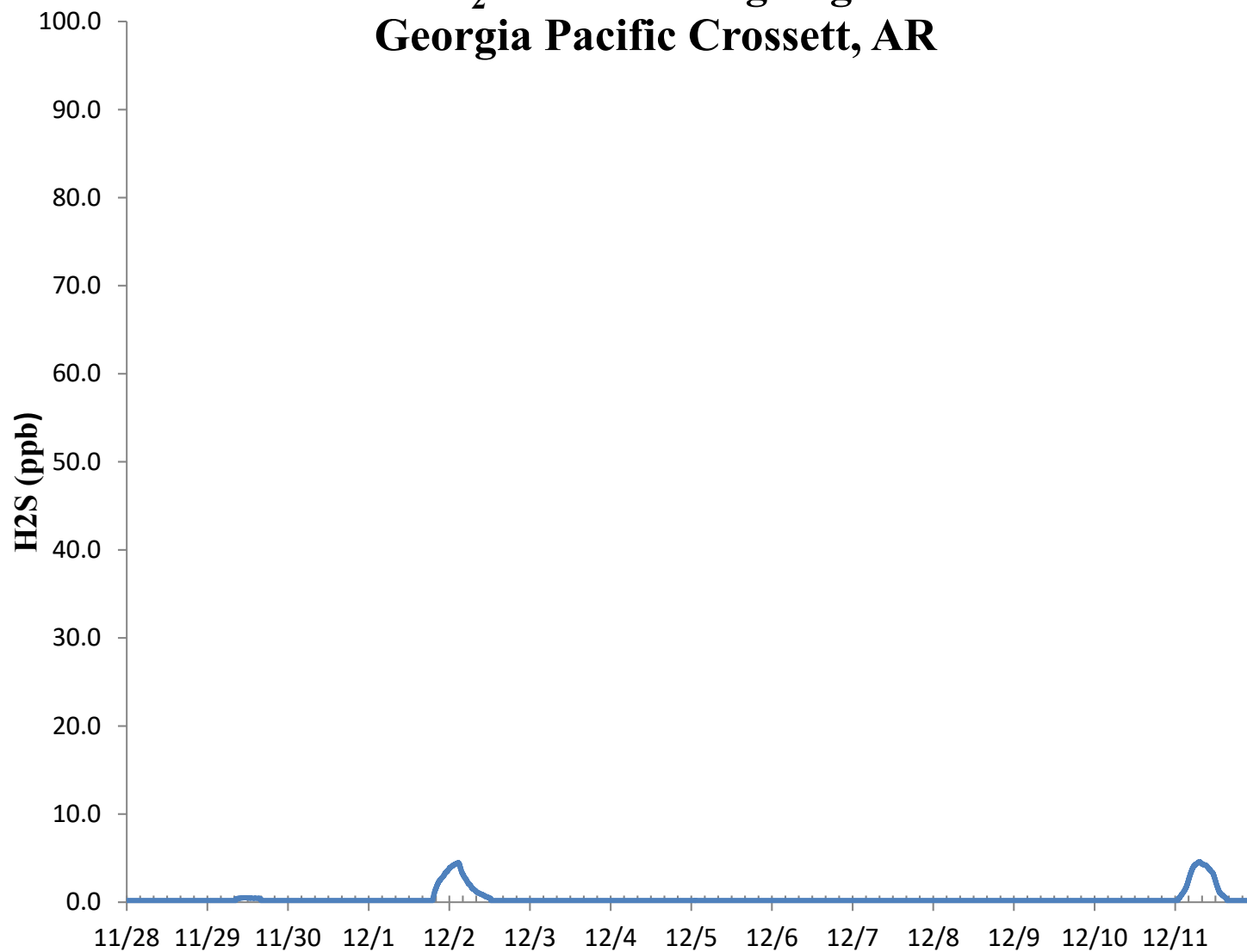
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Email: jbowser@trcsolutions.com

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

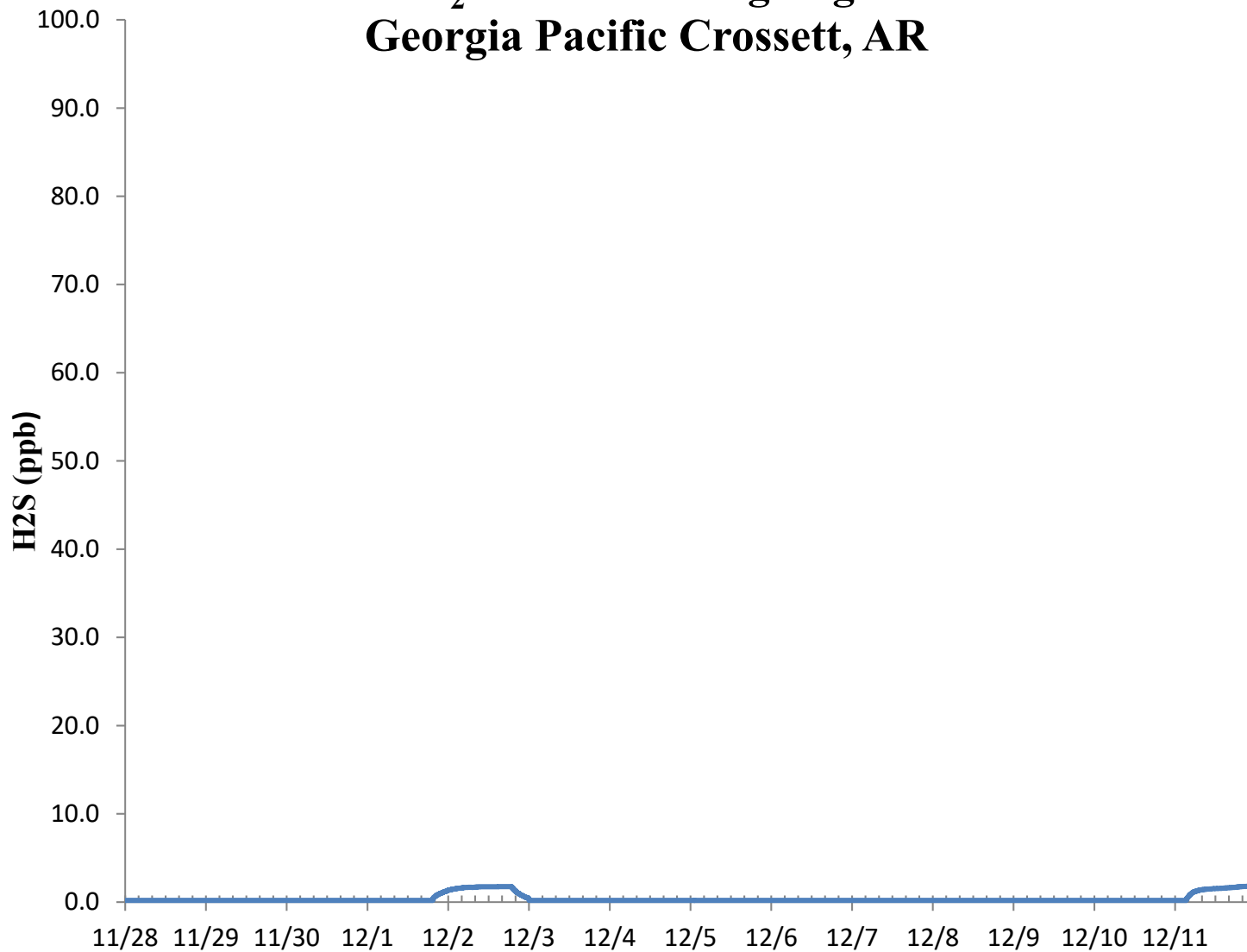
H₂S 30 Min Rolling Avg Georgia Pacific Crossett, AR



H₂S 8 Hr Rolling Avg Georgia Pacific Crossett, AR



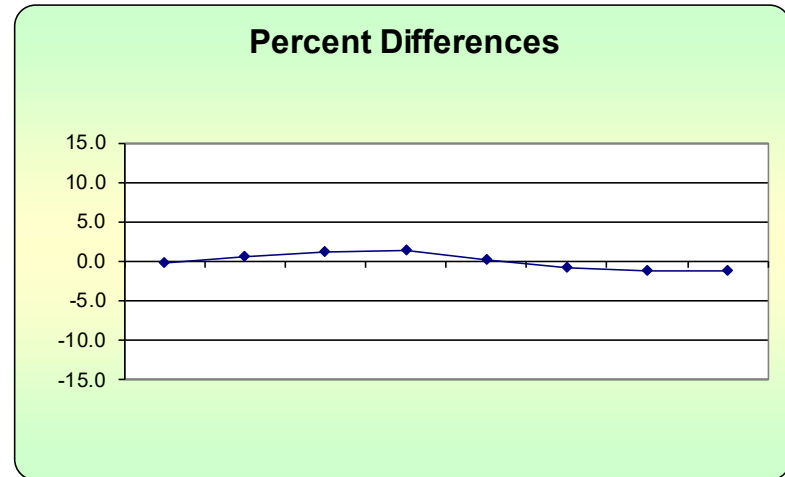
H₂S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S Assessment

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	n	S _d	S _{d2}	Σ d	"AB" (Eqn 4)
11/28/2018 13:00	69.8	70.0	-0.3	-1.286	0.082	0.286	0.082	14	1.070	1.372	14.857	1.061
11/29/2018 13:00	70.4	70.0	0.6	75th Percentile	0.327	0.571	0.327	n-1	Σd	Σd ²	Σ d ²	"AS" (Eqn 5)
11/30/2018 13:00	70.8	70.0	1.1	0.036	1.306	1.143	1.306	13	-8.571	20.122	20.122	0.579
12/1/2018 13:00	70.9	70.0	1.3		1.653	1.286	1.653					
12/2/2018 13:00	70.1	70.0	0.1		0.020	0.143	0.020					
12/3/2018 13:00	69.4	70.0	-0.9		0.735	0.857	0.735					
12/4/2018 13:00	69.2	70.0	-1.1		1.306	1.143	1.306					
12/5/2018 13:00	69.1	70.0	-1.3		1.653	1.286	1.653					
12/6/2018 13:00	69.3	70.0	-1.0		1.000	1.000	1.000					
12/7/2018 13:00	69.1	70.0	-1.3		1.653	1.286	1.653					
12/8/2018 13:00	69.7	70.0	-0.4		0.184	0.429	0.184					
12/9/2018 13:00	68.8	70.0	-1.7		2.939	1.714	2.939					
12/10/2018 13:00	68.4	70.0	-2.3		5.224	2.286	5.224					
12/11/2018 13:00	69.0	70.0	-1.4		2.041	1.429	2.041					

CV (%) (Eqn 2)	1.45
Bias (%) (Eqn 3)	1.34
Signed Bias (%)	+/-1.34
Upper Probability Limit	1.48
Lower Probability Limit	-2.71



Meteorological Summary

