

January 29, 2019



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January 29, 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 January 9, 2018 through January 22, 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 ± 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)
1/9/19	0.0
1/16/2019	0.2

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,



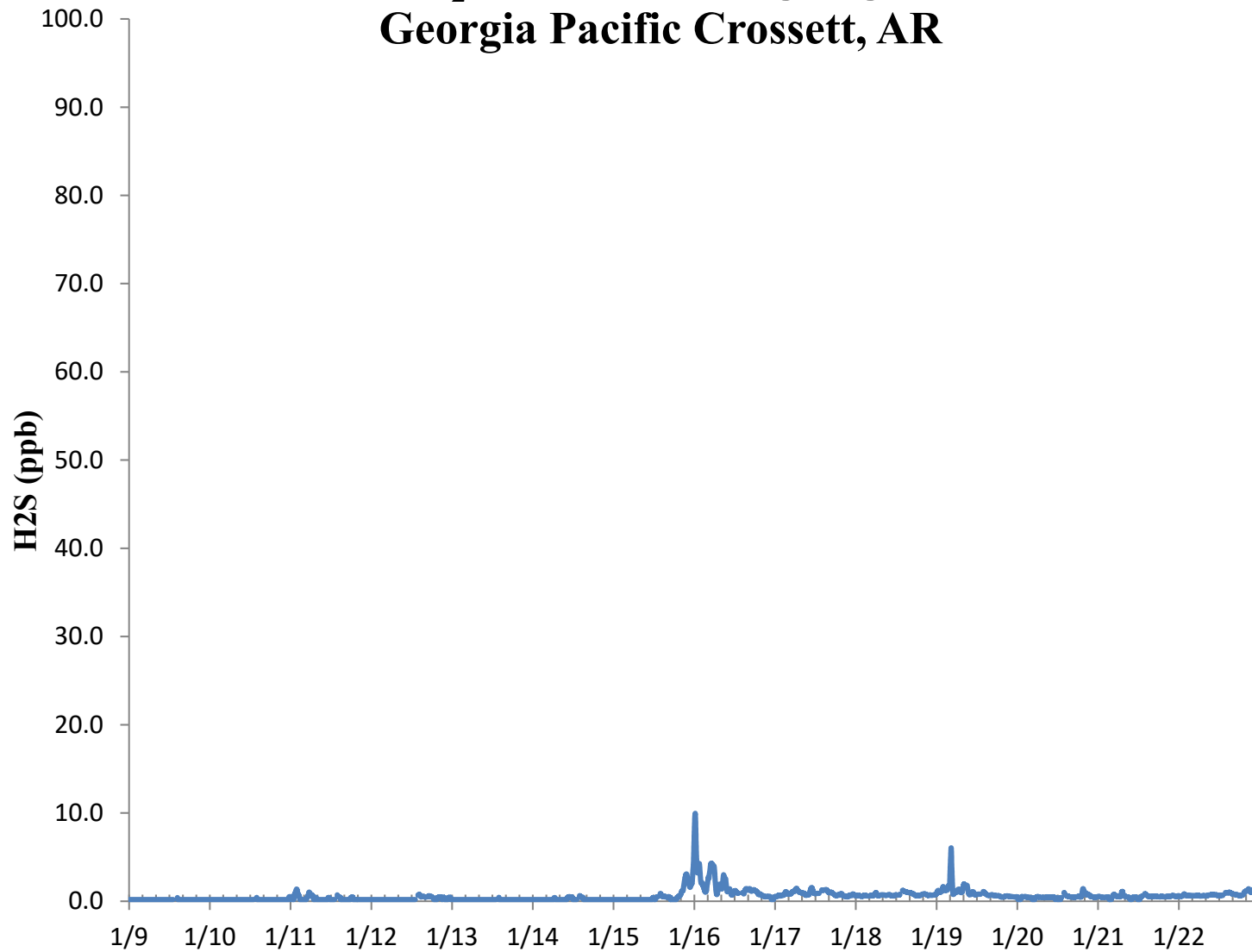
Jonathan Bowser
 Manager, Air Quality and Meteorological Monitoring

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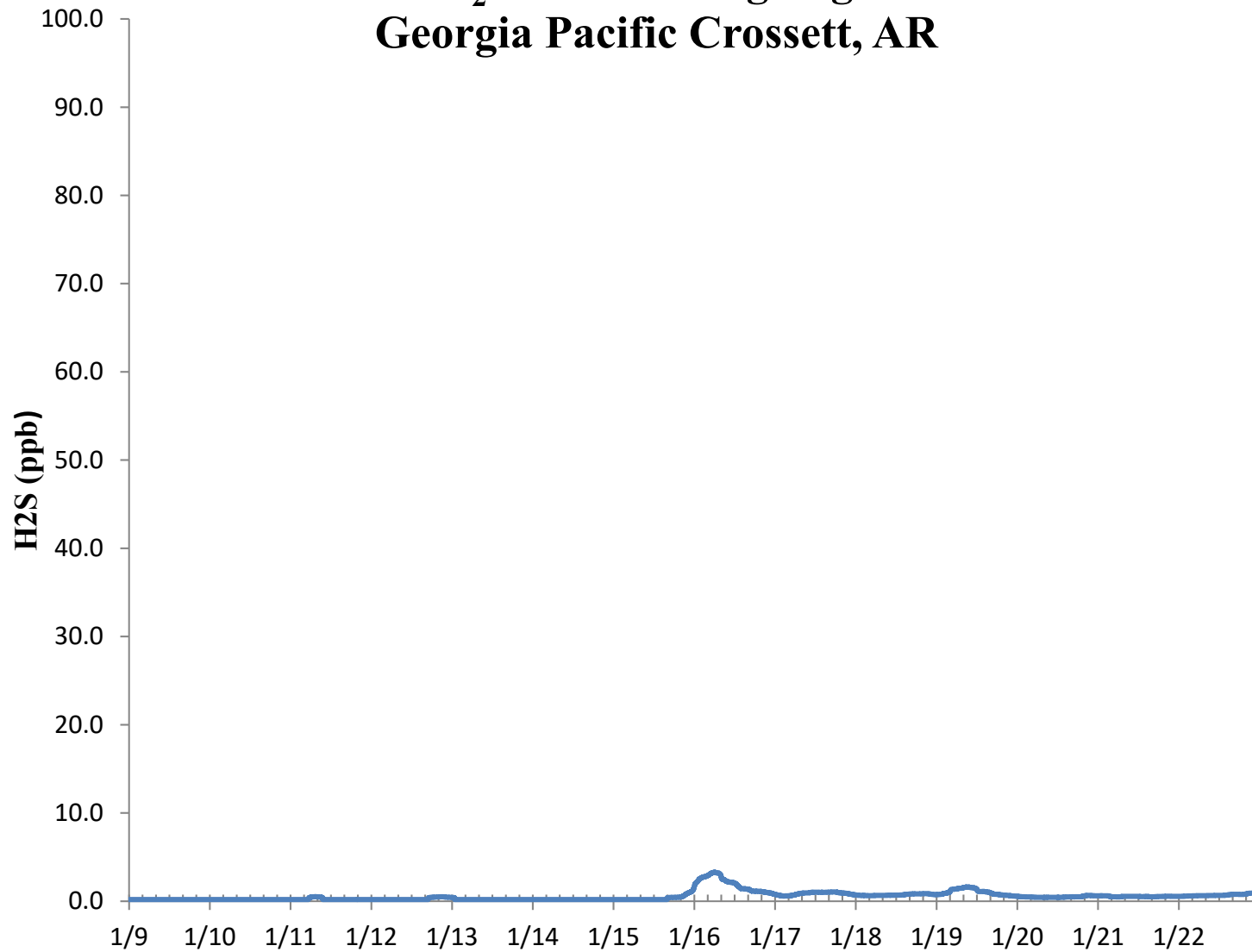
CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us
 Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov



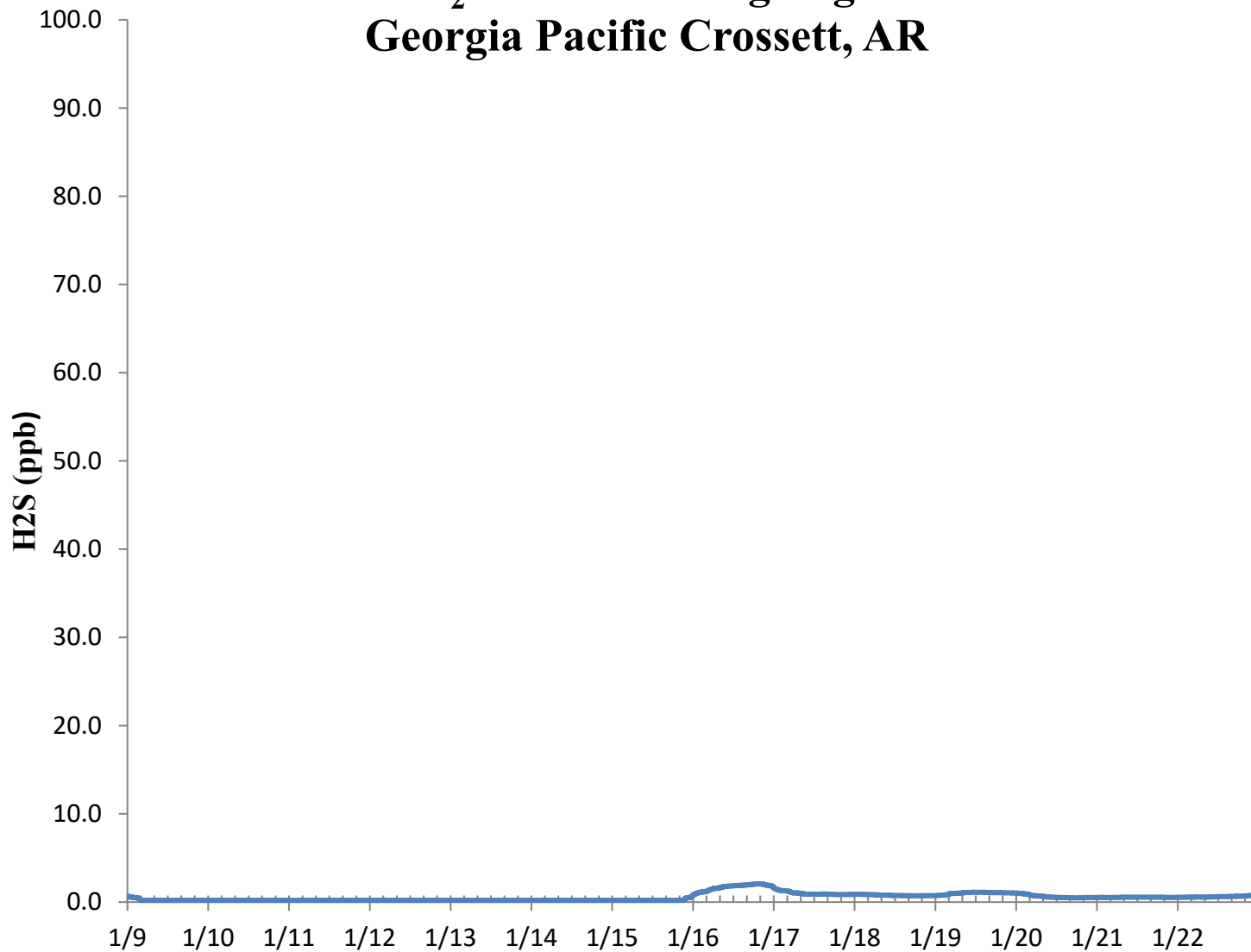
H₂S 30 Min Rolling Avg Georgia Pacific Crossett, AR



H₂S 8 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



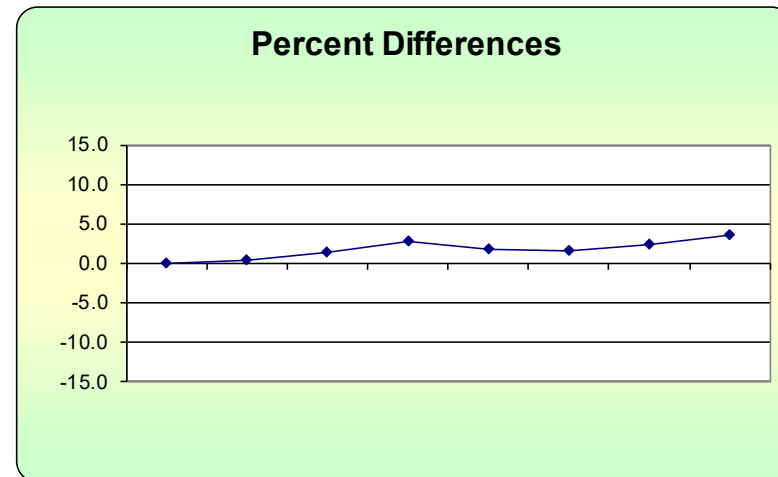
H₂S Assessment

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)
1/9/2019 13:00	70.0	70.0	0.0	1.607	0.000	0.000	0.000	14	1.860	11.289	41.429	2.959
1/10/2019 13:00	70.2	70.0	0.3	75th Percentile	0.082	0.286	0.082	n-1	Σd	Σd ²	Σ d ²	"AS" (Eqn 5)
1/11/2019 13:00	70.9	70.0	1.3	4.393	1.653	1.286	1.653	13	41.429	167.592	167.592	1.860
1/12/2019 13:00	71.9	70.0	2.7		7.367	2.714	7.367					
1/13/2019 13:00	71.2	70.0	1.7		2.939	1.714	2.939					
1/14/2019 13:00	71.1	70.0	1.6		2.469	1.571	2.469					
1/15/2019 13:00	71.6	70.0	2.3		5.224	2.286	5.224					
1/16/2019 13:00	72.5	70.0	3.6		12.755	3.571	12.755					
1/17/2019 13:00	73.2	70.0	4.6		20.898	4.571	20.898					
1/18/2019 13:00	73.6	70.0	5.1		26.449	5.143	26.449					
1/19/2019 13:00	73.9	70.0	5.6		31.041	5.571	31.041					
1/20/2019 13:00	72.3	70.0	3.3		10.796	3.286	10.796					
1/21/2019 13:00	72.7	70.0	3.9		14.878	3.857	14.878					
1/22/2019 13:00	73.9	70.0	5.6		31.041	5.571	31.041					

CV (%) (Eqn 2)	2.53
Bias (%) (Eqn 3)	3.84
Signed Bias (%)	+3.84
Upper Probability Limit	6.61
Lower Probability Limit	-0.69

Both Signs Positive
TRUE

Both Signs Negative
FALSE



Meteorological Summary

