

October 31, 2018



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October 31, 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 October 3, 2018 through October 16, 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)
10/3/2018	0.0
10/10/2018	-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. Brief server failures were responsible for loss of H₂S data for approximately three hours on October 7th, forty minutes on October 8th, and 10 minutes on October 16th.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final charts. Brief server failures were responsible for loss of all met parameters for approximately three hours on October 7th, forty minutes on October 8th, and 10 minutes on October 16th.

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

Sincerely,

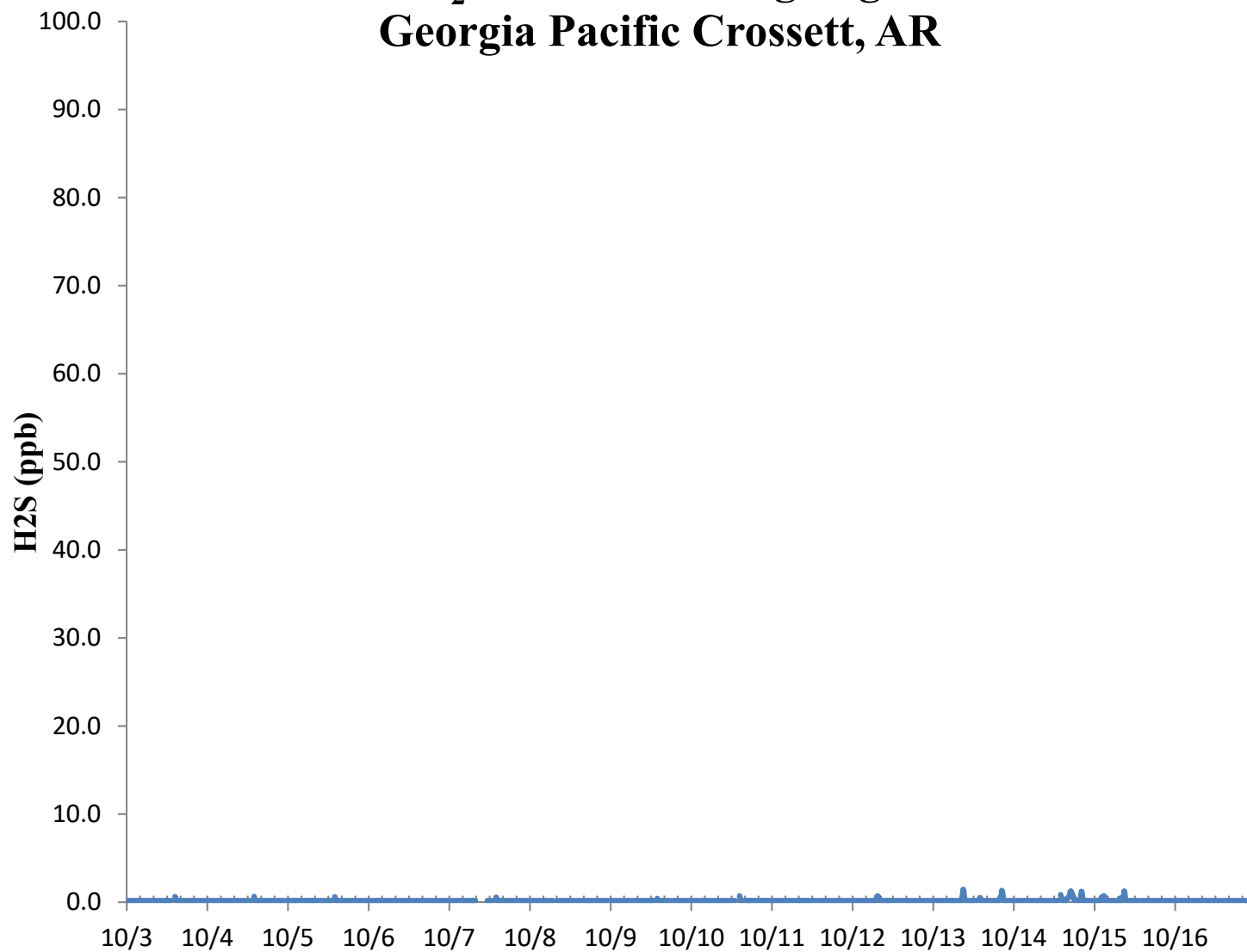


Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

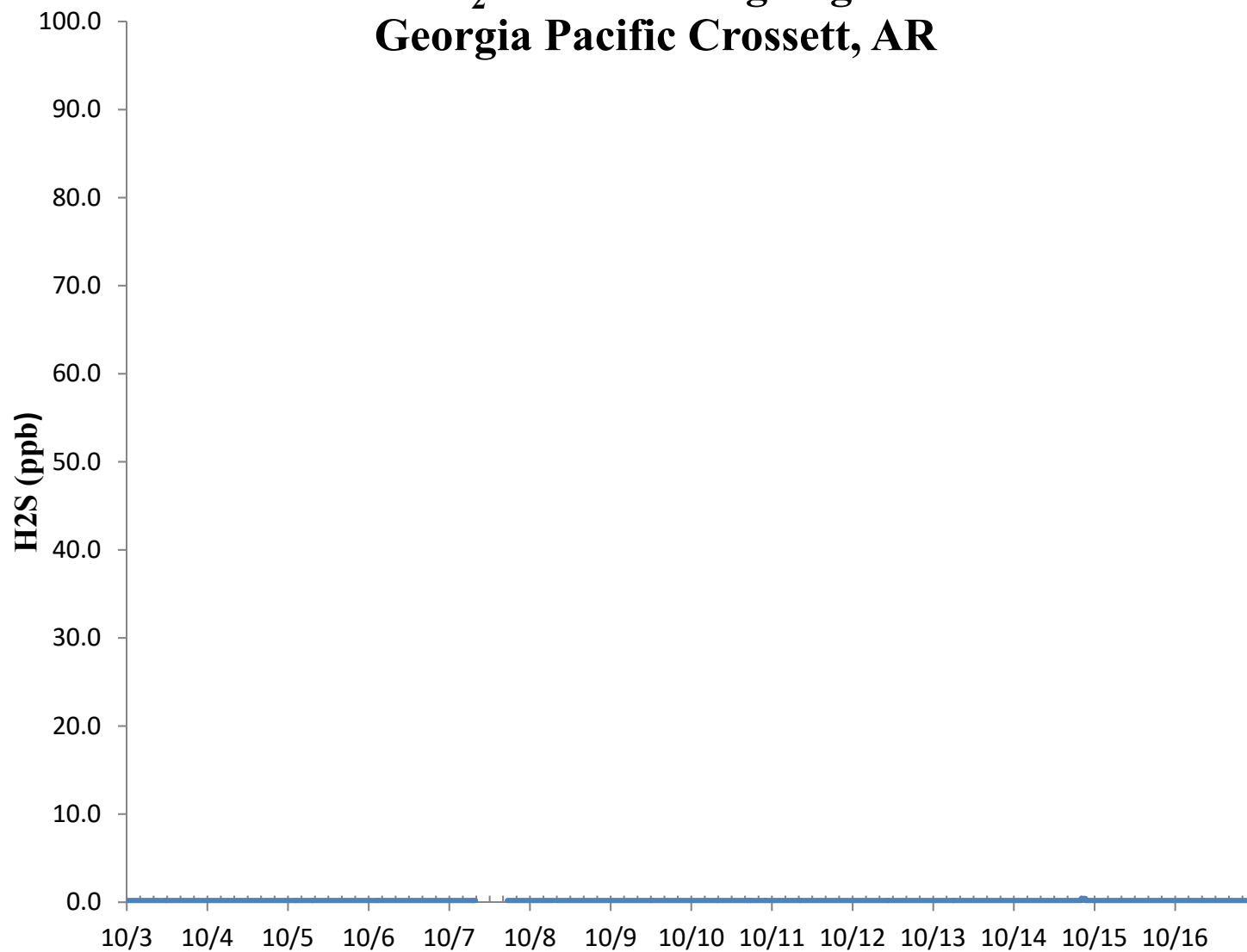
Air Measurements – Gainesville Office
6312 NW 18th Drive, Suite 100
Gainesville, Florida 32653
(352) 260-1162
Email: jbowser@trcsolutions.com

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

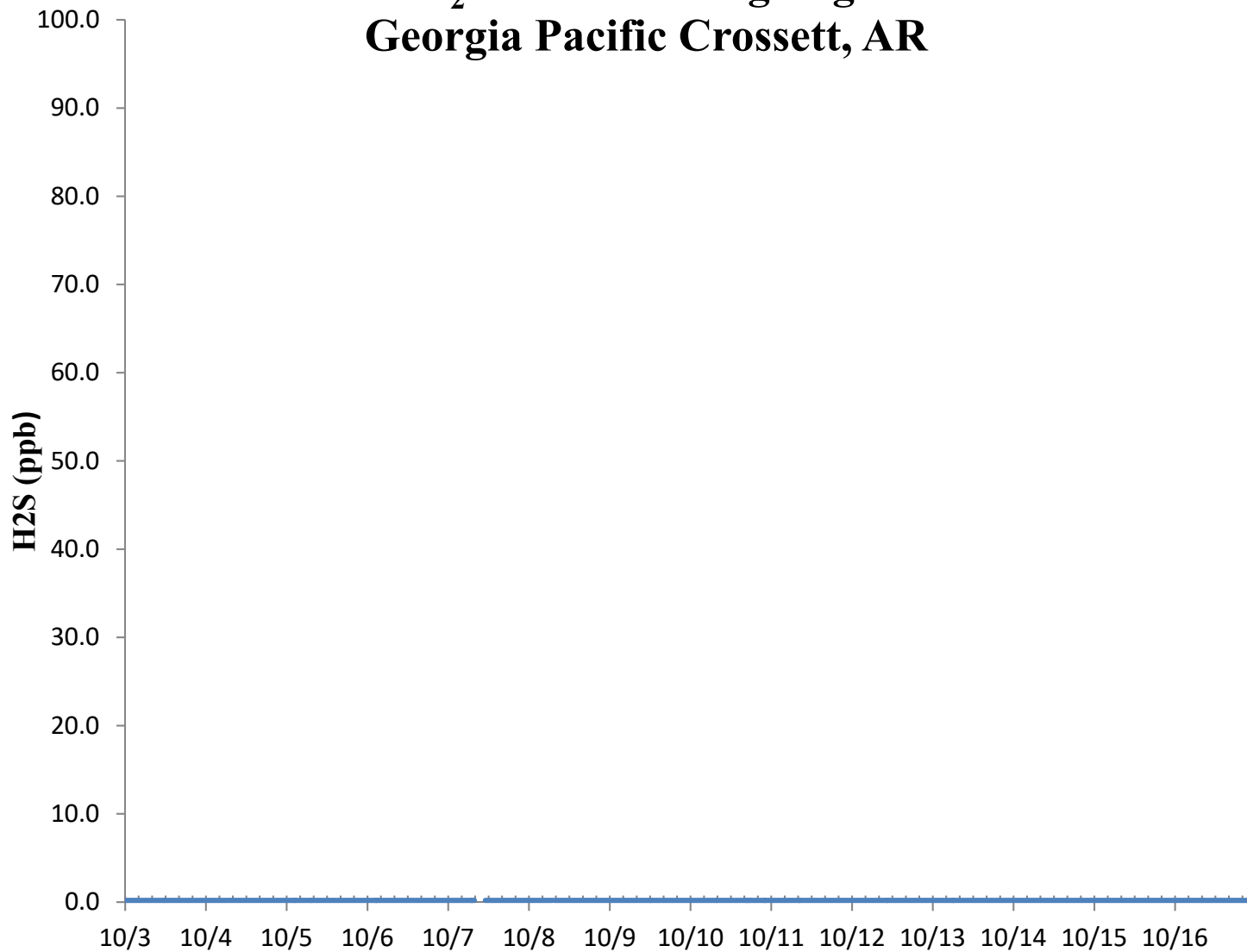
H₂S 30 Min Rolling Avg Georgia Pacific Crossett, AR



H₂S 8 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



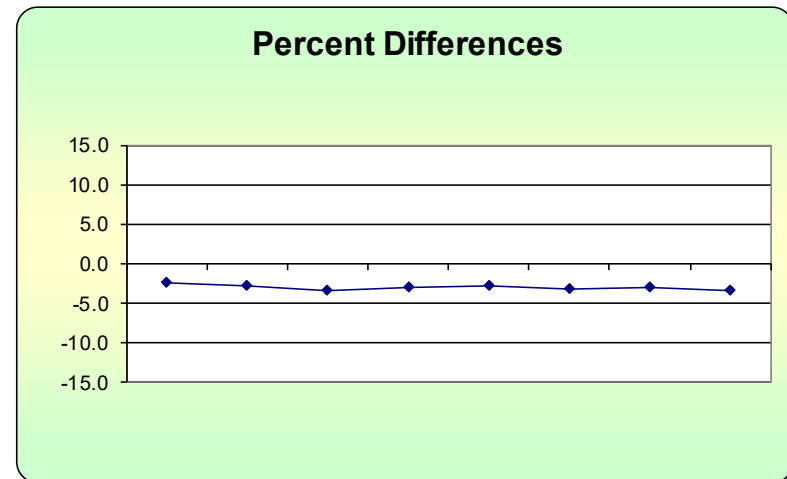
H₂S Assessment

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)
10/3/2018 13:00	68.3	70.0	-2.4	-3.679	5.898	2.429	5.898	14	0.684	5.019	48.429	3.459
10/4/2018 13:00	68.0	70.0	-2.9	75th Percentile	8.163	2.857	8.163	n-1	Σd	Σd ²	Σ d ²	"AS" (Eqn 5)
10/5/2018 13:00	67.6	70.0	-3.4	-3.000	11.755	3.429	11.755	13	-48.429	173.612	173.612	0.684
10/6/2018 13:00	67.9	70.0	-3.0		9.000	3.000	9.000					
10/7/2018 13:00	68.1	70.0	-2.7		7.367	2.714	7.367					
10/8/2018 13:00	67.7	70.0	-3.3		10.796	3.286	10.796					
10/9/2018 13:00	67.9	70.0	-3.0		9.000	3.000	9.000					
10/10/2018 13:00	67.6	70.0	-3.4		11.755	3.429	11.755					
10/11/2018 13:00	67.6	70.0	-3.4		11.755	3.429	11.755					
10/12/2018 13:00	67.0	70.0	-4.3		18.367	4.286	18.367					
10/13/2018 13:00	67.4	70.0	-3.7		13.796	3.714	13.796					
10/14/2018 13:00	67.5	70.0	-3.6		12.755	3.571	12.755					
10/15/2018 13:00	66.6	70.0	-4.9		23.592	4.857	23.592					
10/16/2018 13:00	66.9	70.0	-4.4		19.612	4.429	19.612					

Bias (%) (Eqn 3)	3.78	Both Signs Positive
Signed Bias (%)	-3.78	Both Signs Negative
TRUE		

CV (%) (Eqn 2)	0.93
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Upper Probability Limit	-2.12	Lower Probability Limit	-4.8
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Meteorological Summary

