

March 27, 2019



6312 NW 18th Drive
Suite 100
Gainesville, FL 32653

352.378.0332 PHONE
352.378.0354 FAX

www.TRCSolutions.com

March 27, 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 March 6, 2019 through March 19, 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 one automated zero check was performed. The results for these zero checks are presented on the following page.



March 27, 2019

Date	Zero Check Response (ppb)
3/13/2019	0.3


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. Interruptions in server connection were responsible for brief losses of H₂S data on March 6th (8 minutes total), March 8th (4 minutes total), and March 12th (8 minutes total).

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,

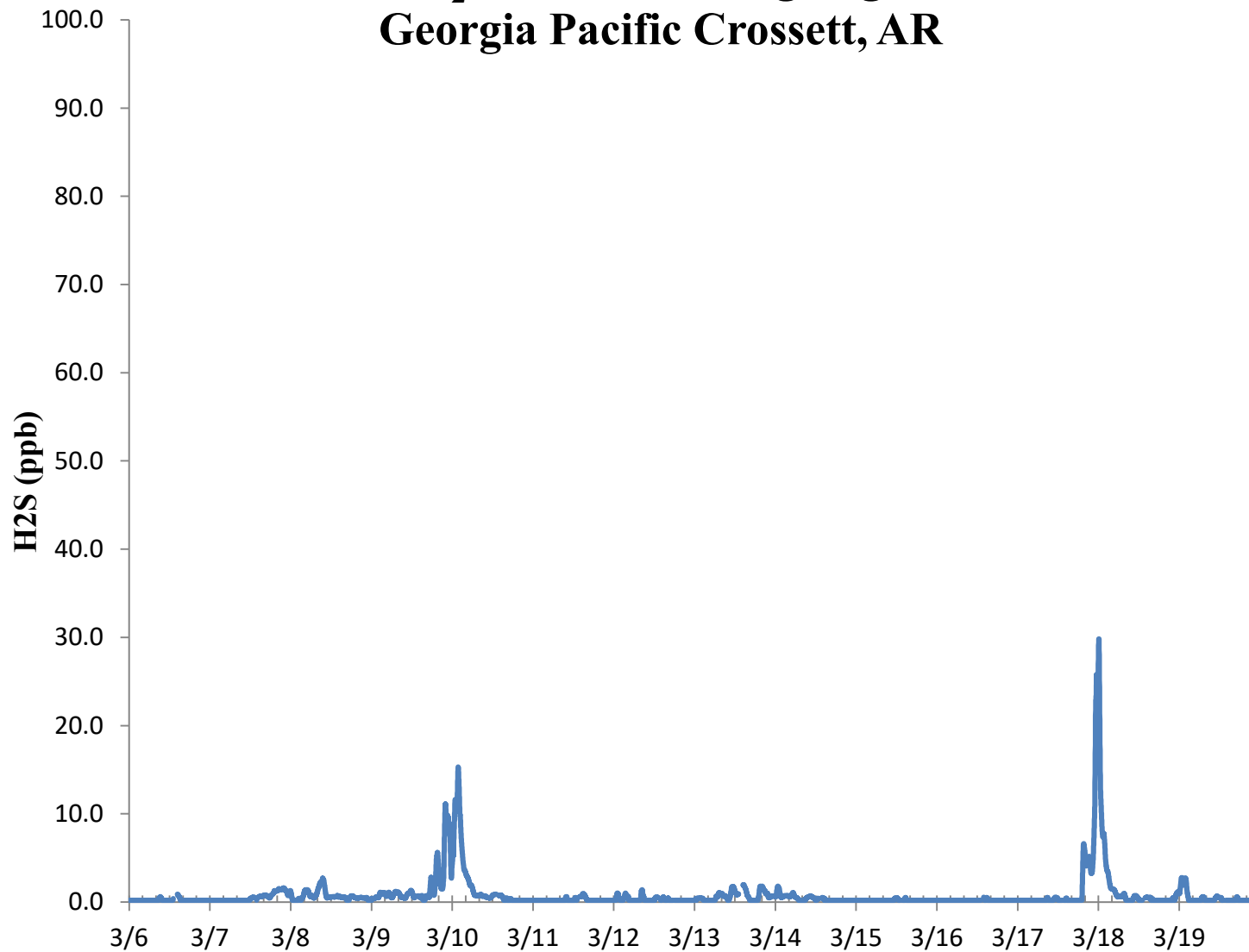


Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

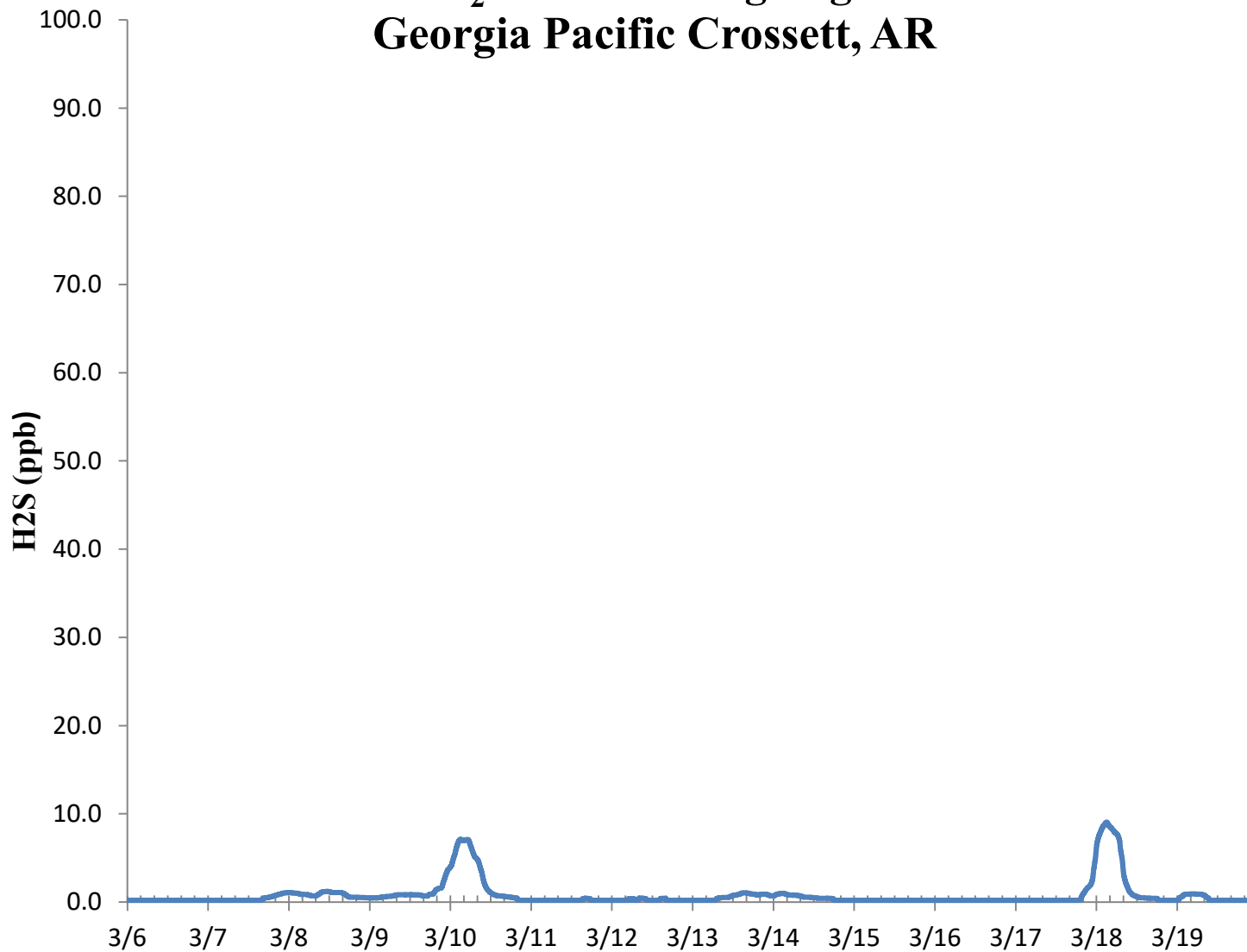
Air Measurements – Alachua Office
13351 Progress Blvd. Ste A
Alachua, FL 32615
(352) 260-1162
Email: jbowser@trcsolutions.com

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

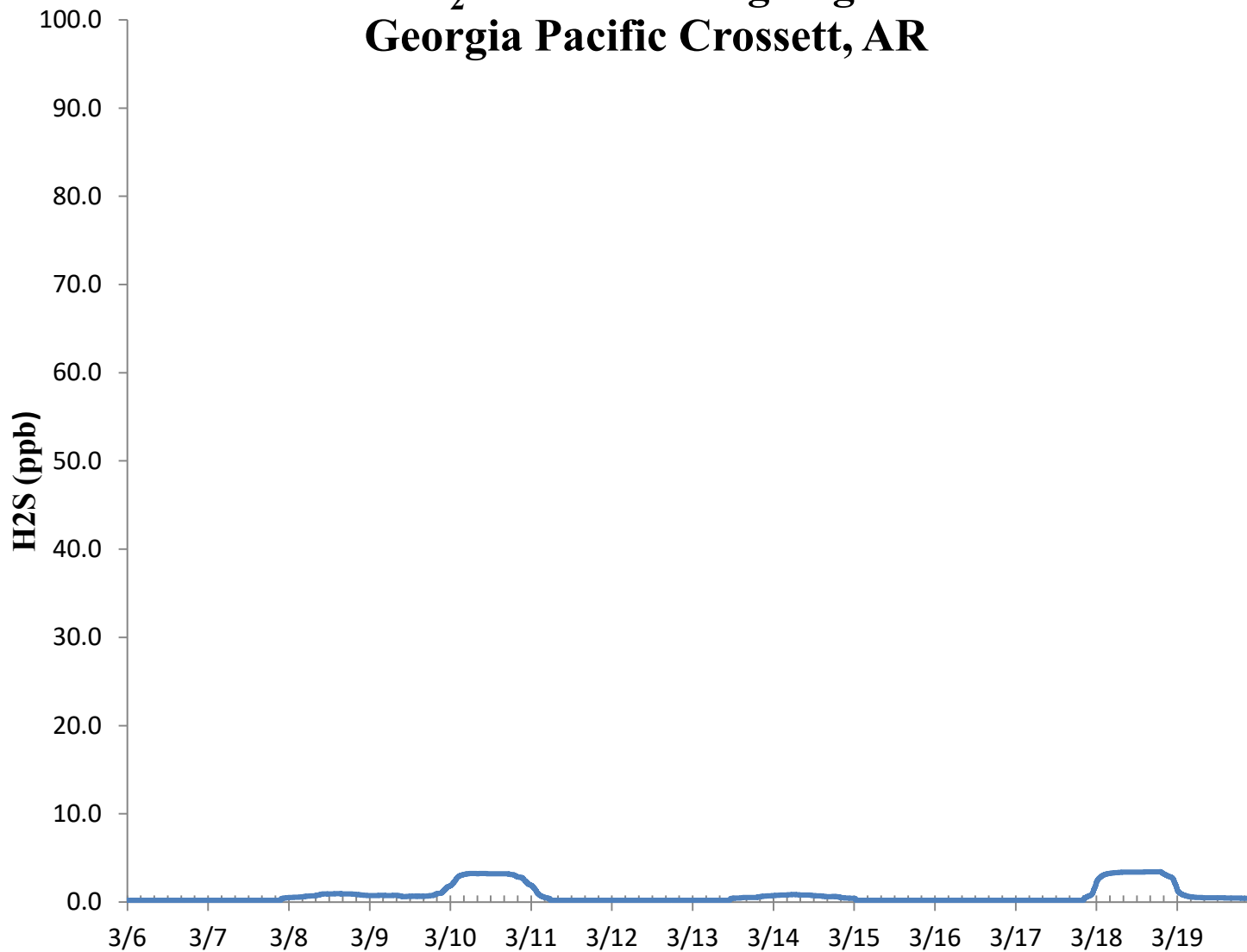
H₂S 30 Min Rolling Avg Georgia Pacific Crossett, AR



H₂S 8 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



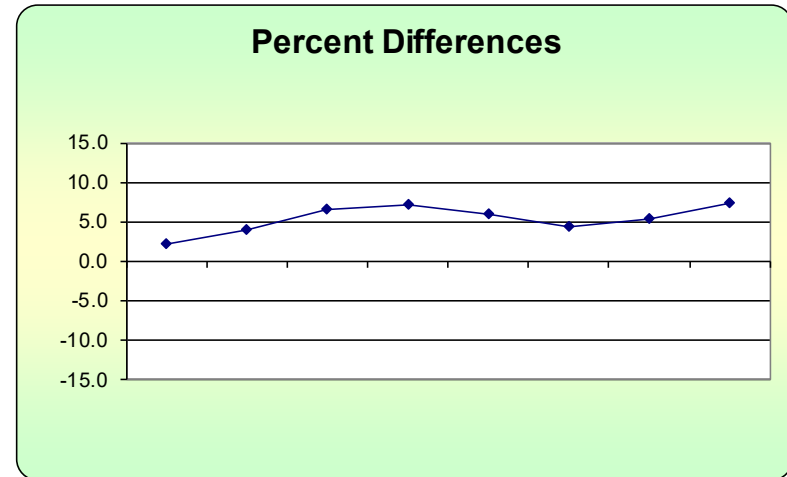
H₂S Assessment

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)
3/6/2019 13:00	71.5	70.0	2.1	3.286	4.592	2.143	4.592	14	1.668	16.242	65.143	4.653
3/7/2019 13:00	72.8	70.0	4.0	75th Percentile	16.000	4.000	16.000	n-1	Σd	Σd ²	Σ d ²	"AS" (Eqn 5)
3/8/2019 13:00	74.6	70.0	6.6	5.857	43.184	6.571	43.184	13	65.143	339.265	339.265	1.668
3/9/2019 13:00	75.0	70.0	7.1		51.020	7.143	51.020					
3/10/2019 13:00	74.2	70.0	6.0		36.000	6.000	36.000					
3/11/2019 13:00	73.1	70.0	4.4		19.612	4.429	19.612					
3/12/2019 13:00	73.8	70.0	5.4		29.469	5.429	29.469					
3/13/2019 13:00	75.1	70.0	7.3		53.082	7.286	53.082					
3/14/2019 13:00	73.7	70.0	5.3		27.939	5.286	27.939					
3/15/2019 13:00	72.6	70.0	3.7		13.796	3.714	13.796					
3/16/2019 13:00	72.0	70.0	2.9		8.163	2.857	8.163					
3/17/2019 13:00	72.0	70.0	2.9		8.163	2.857	8.163					
3/18/2019 13:00	73.0	70.0	4.3		18.367	4.286	18.367					
3/19/2019 13:00	72.2	70.0	3.1		9.878	3.143	9.878					

Bias (%) (Eqn 3)	Both Signs Positive
5.44	TRUE
Signed Bias (%)	Both Signs Negative
+5.44	FALSE

CV (%) (Eqn 2)	2.27
-----------------------	------

Upper Probability Limit	7.92	Lower Probability Limit	1.38
--------------------------------	------	--------------------------------	------



Meteorological Summary

