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October 10, 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 September 19, 2018 through October 2, 2018. Elevated concentrations of H₂S were recorded during the evening of September 29th. The maximum rolling 30-minute average H₂S concentration recorded during this reporting period was 35.1 ppb.

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)
9/19/2018	0.0
9/26/2018	-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. A brief power interruption was responsible for loss of all met parameters for approximately two hours on October 2nd.

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

Sincerely,



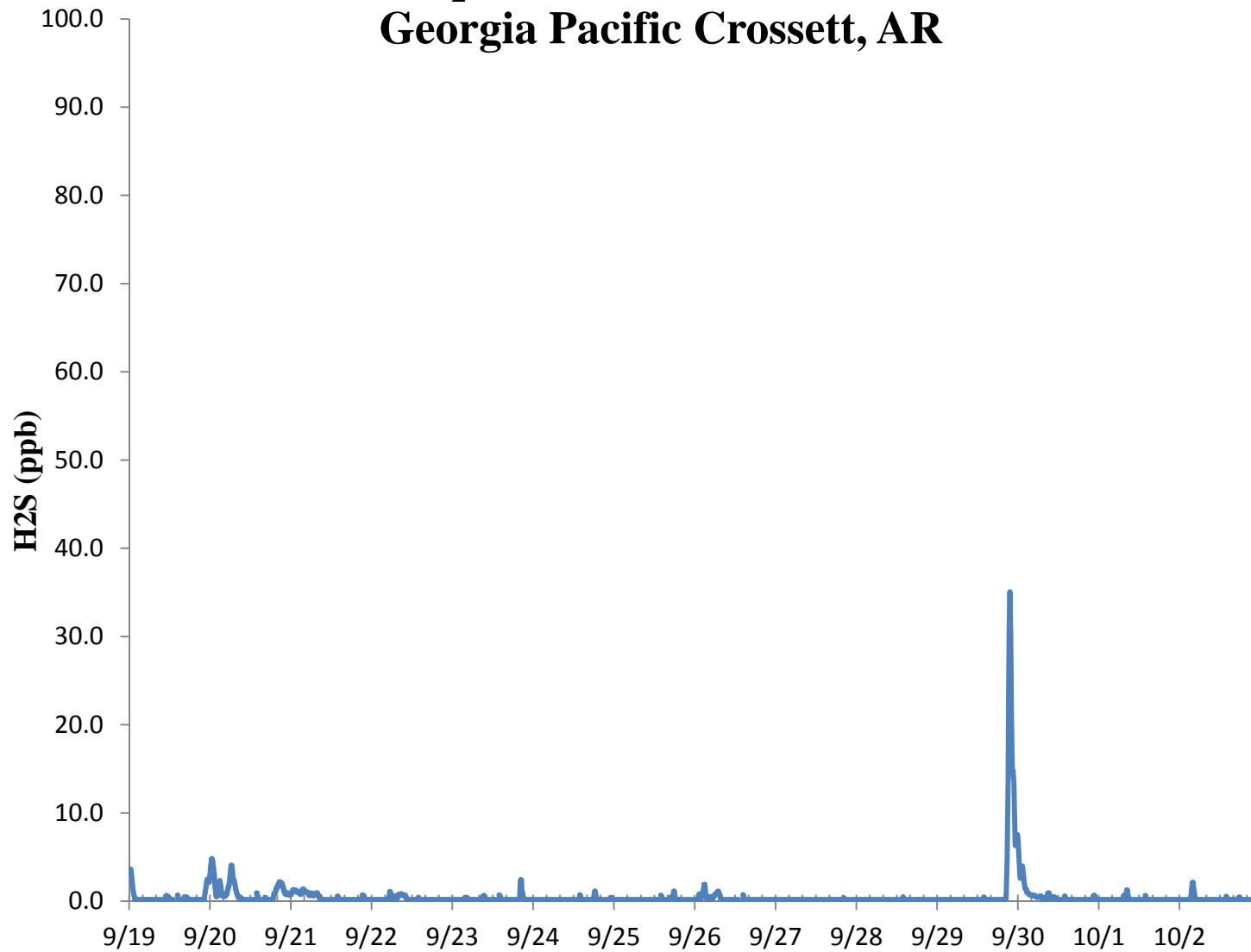
Jonathan Bowser
 Manager, Air Quality and Meteorological Monitoring

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

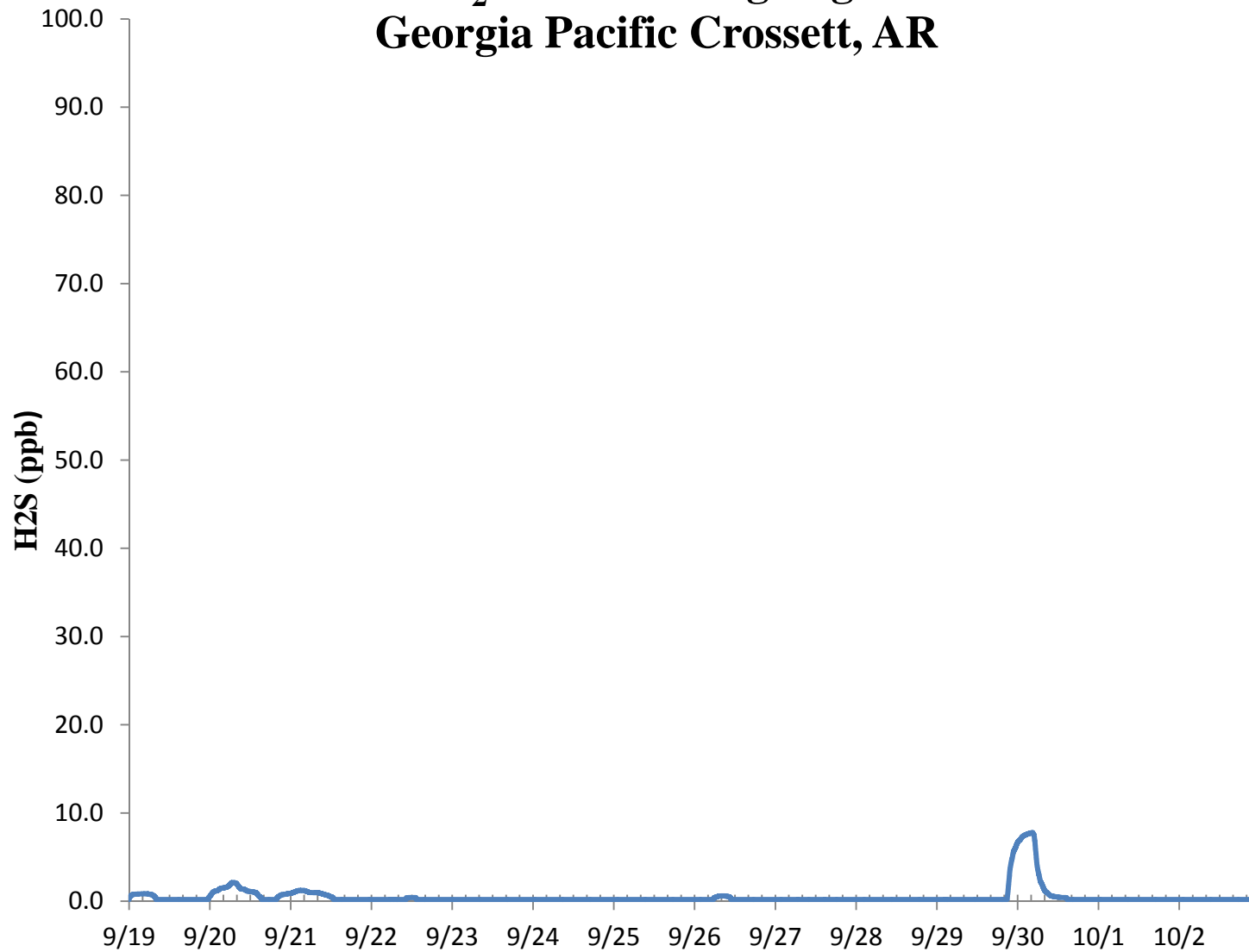
CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us
 Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov



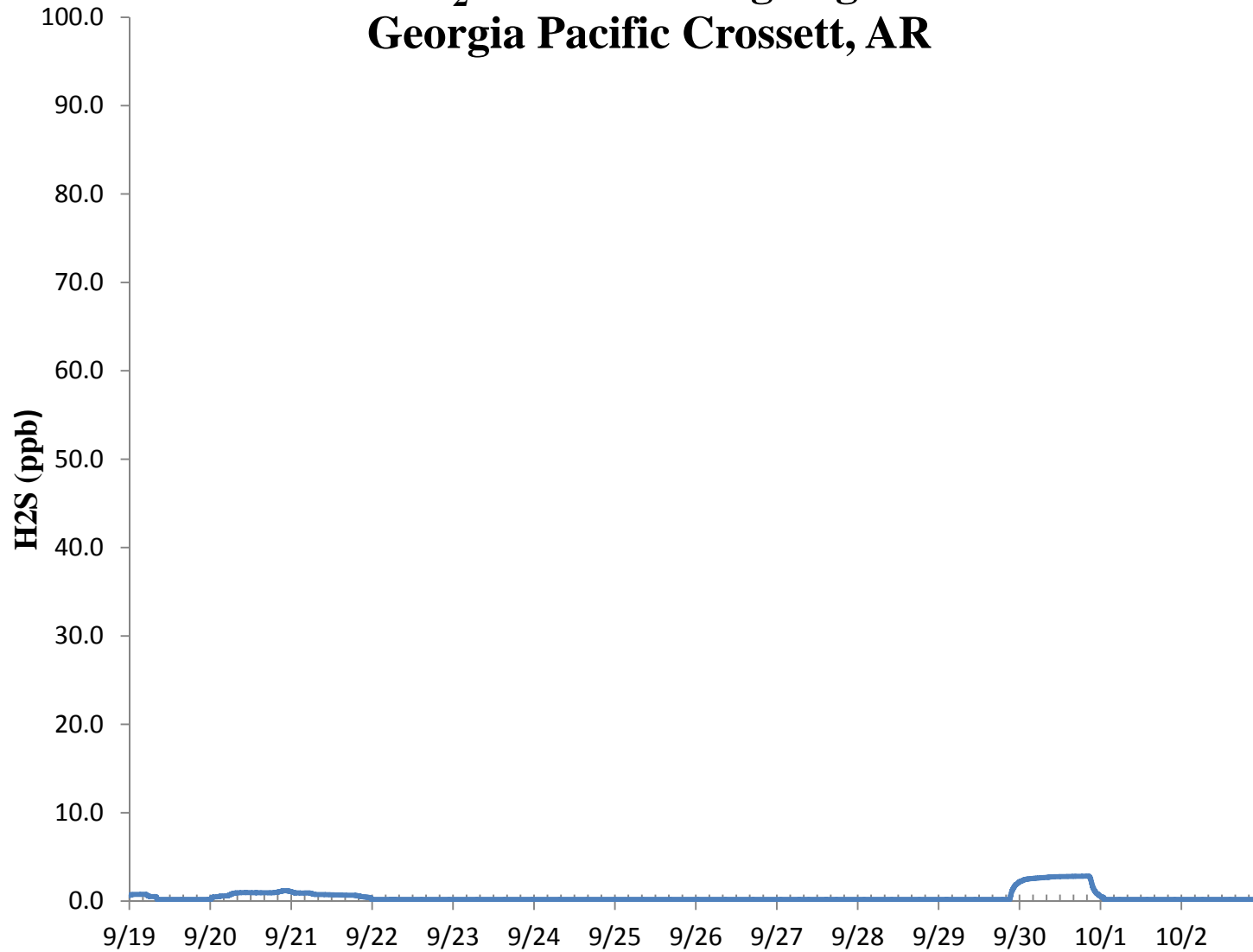
H₂S 30 Min Rolling Avg Georgia Pacific Crossett, AR



H₂S 8 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



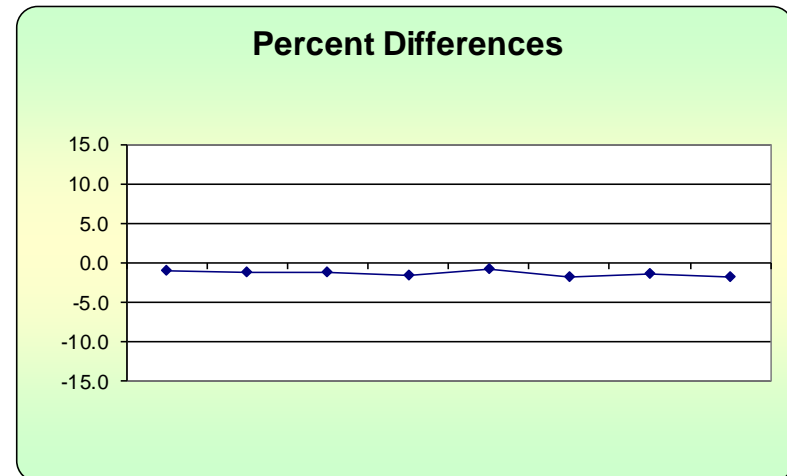
H₂S Assessment

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)
9/19/2018 13:00	69.3	70.0	-1.0	-2.679	1.000	1.000	1.000					
9/20/2018 13:00	69.2	70.0	-1.1	75th Percentile	1.306	1.143	1.306					
9/21/2018 13:00	69.2	70.0	-1.1	-1.214	1.306	1.143	1.306	14	0.815	3.300	27.429	1.959
9/22/2018 13:00	68.9	70.0	-1.6		2.469	1.571	2.469	n-1	Σd	Σd ²	Σ d ²	"AS" (Eqn 5)
9/23/2018 13:00	69.4	70.0	-0.9		0.735	0.857	0.735	13	-27.429	62.367	62.367	0.815
9/24/2018 13:00	68.8	70.0	-1.7		2.939	1.714	2.939					
9/25/2018 13:00	69.0	70.0	-1.4		2.041	1.429	2.041					
9/26/2018 13:00	68.8	70.0	-1.7		2.939	1.714	2.939					
9/27/2018 13:00	68.2	70.0	-2.6		6.612	2.571	6.612					
9/28/2018 13:00	68.1	70.0	-2.7		7.367	2.714	7.367					
9/29/2018 13:00	68.0	70.0	-2.9		8.163	2.857	8.163					
9/30/2018 13:00	68.2	70.0	-2.6		6.612	2.571	6.612					
10/1/2018 13:00	67.9	70.0	-3.000		9.000	3.000	9.000					
10/2/2018 13:00	67.8	70.0	-3.143		9.878	3.143	9.878					

CV (%) (Eqn 2)	1.11
Bias (%) (Eqn 3)	2.34
Signed Bias (%)	-2.34

Both Signs Positive: FALSE
Both Signs Negative: TRUE

Upper Probability Limit	-0.36	Lower Probability Limit	-3.56
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Meteorological Summary

