

6312 NW 18<sup>th</sup> Drive  
Suite 100  
Gainesville, FL 32653

352.378.0332 PHONE  
352.378.0354 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

December 31, 2014

Ms. Lori Simmons  
Arkansas Department of Health  
4815 West Markham Street  
Little Rock, Arkansas 72205  
Via email [Lori.Simmons@arkansas.gov](mailto:Lori.Simmons@arkansas.gov)

**Re: Georgia-Pacific, Crossett mill - Biweekly Air Monitoring Report for Hydrogen Sulfide**

Dear Ms. Simmons,

Following is a data summary for the sixth two-week operational period of the Georgia-Pacific (GP) hydrogen sulfide (H<sub>2</sub>S) and meteorological monitoring program at the GP Crossett mill.

Summary of Results

Included in this report are three plots presenting H<sub>2</sub>S concentrations calculated with varied rolling average periods (30-minute, 8-hour, and 24-hour). Also included in this report is a summary of results from the daily 1-point QC checks performed during this biweekly period. The QAPP establishes goals for precision and bias 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.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final table. All met parameters have 100% data capture for this report period.

There was one occurrence of data loss during this two week period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. During a site visit on December 16<sup>th</sup>, TRC replaced the disk on module (DOM) that stores the instrument's configuration and reloaded the firmware. Following replacement of the DOM, a complete calibration was performed.

Please note, the 1-point QC check was not performed during the regularly scheduled time due to the DOM replacement. A single check point from the calibration performed following the DOM replacement was used to replace the missing 1-point QC check on the 16<sup>th</sup> in the CV calculation for this biweekly period.

Results for all automated daily 1-point QC checks fall within the acceptable range, indicating the H<sub>2</sub>S monitor was operating in accordance with the QAPP.



Dec 31, 2014

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

Sincerely,



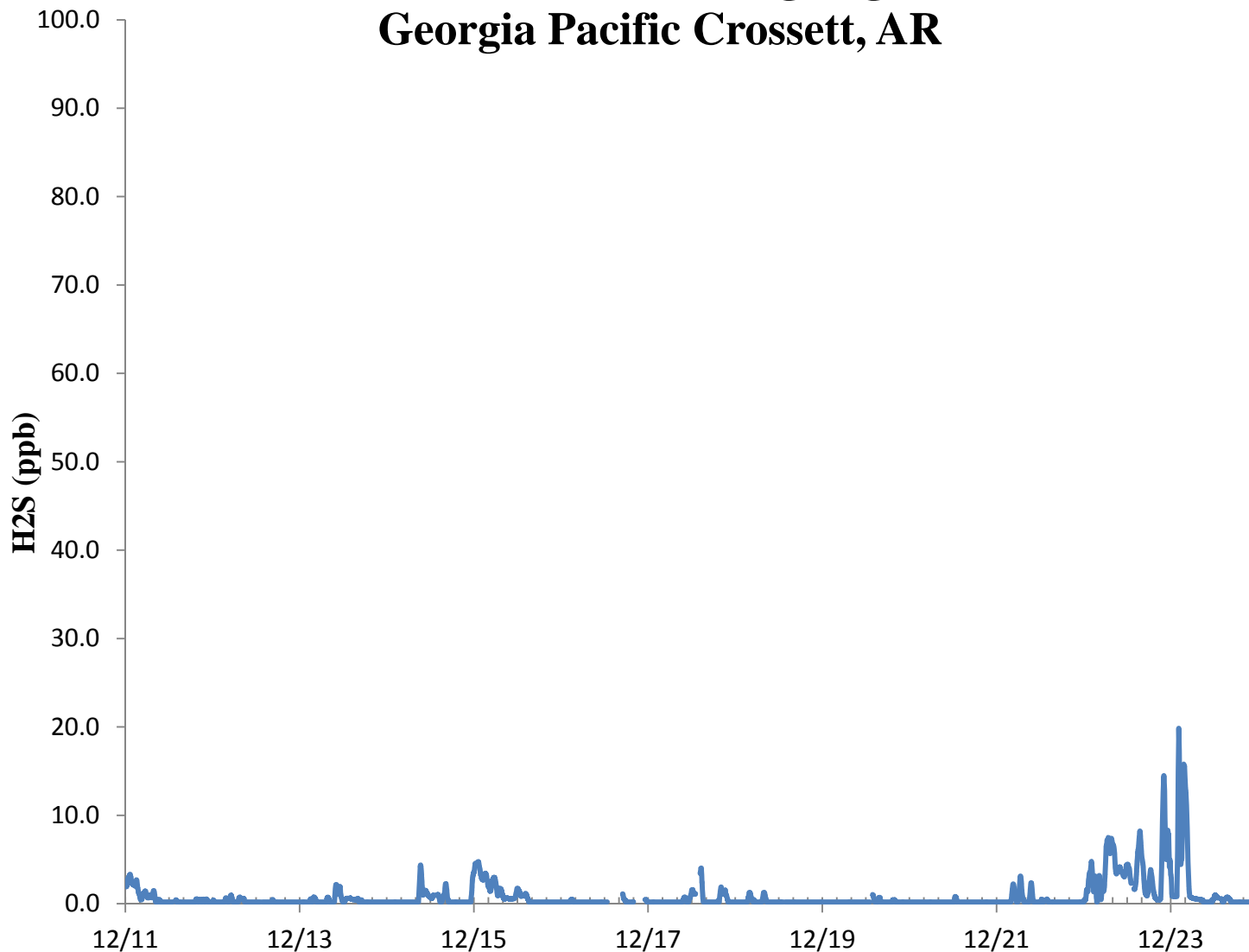
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Jonathan Bowser  
Manager, Air Quality and Meteorological Monitoring

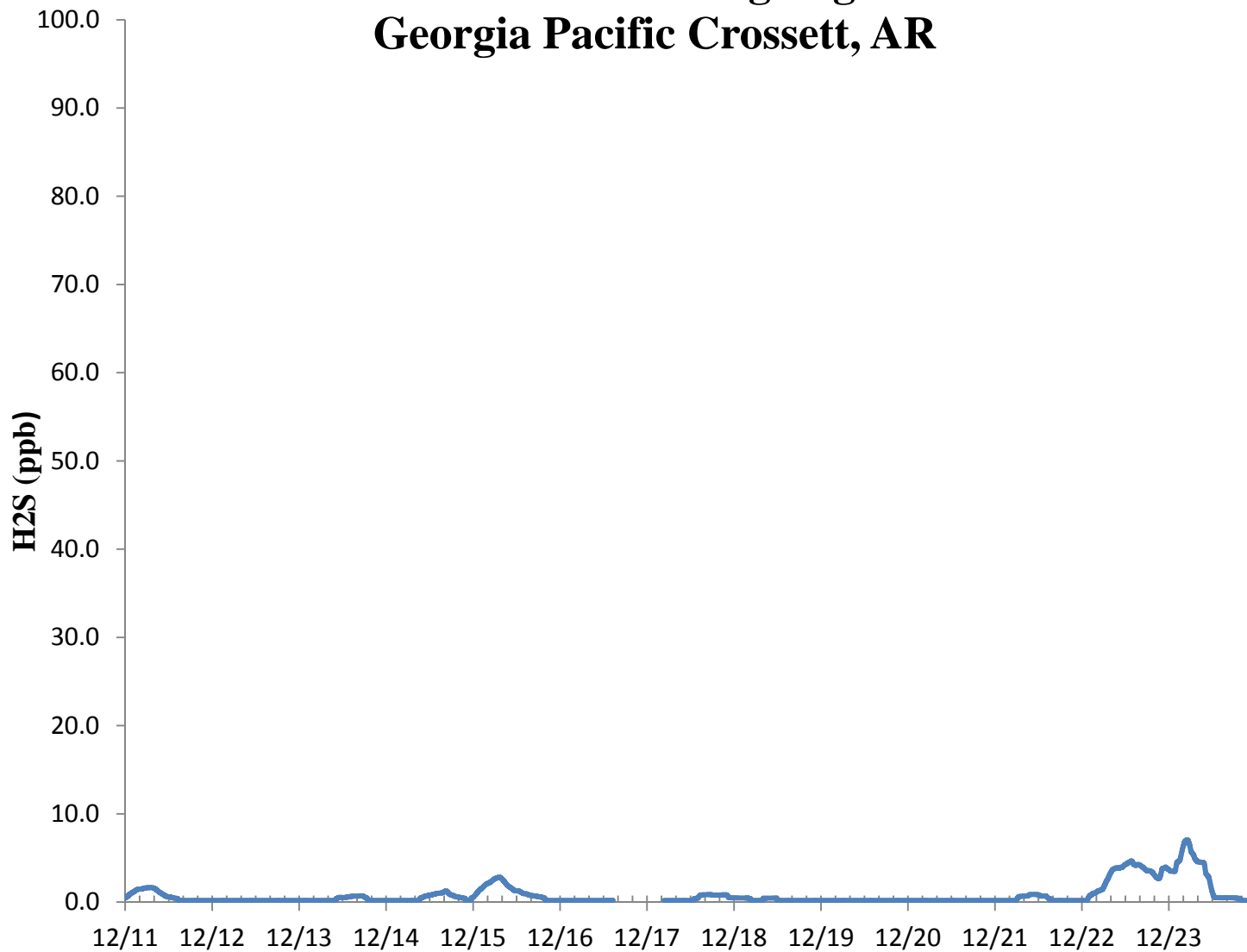
Air Measurements – Gainesville Office  
6312 NW 18th Drive, Suite 100  
Gainesville, Florida 32653  
(352) 260-1162  
Email: [jbowser@trcsolutions.com](mailto:jbowser@trcsolutions.com)

CC: Ryan Benefield, ADEQ Director via email: [benefield@adeq.state.ar.us](mailto:benefield@adeq.state.ar.us)  
Kara Allen, Environmental Engineer, USEPA Region 6 via email [Allen.Kara@epa.gov](mailto:Allen.Kara@epa.gov)

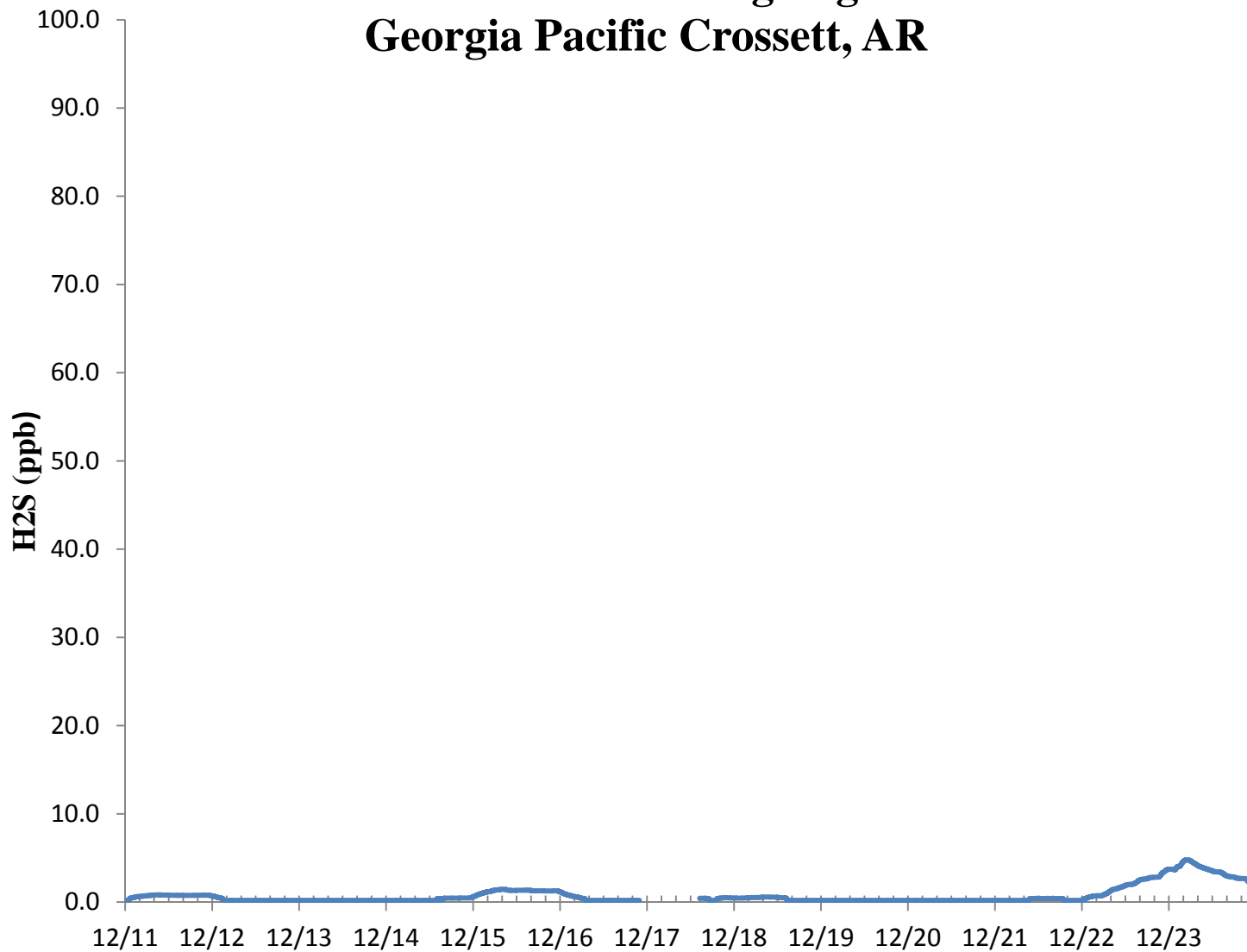
### H2S 30 Min Rolling Avg Georgia Pacific Crossett, AR



## H2S 8 Hr Rolling Avg Georgia Pacific Crossett, AR

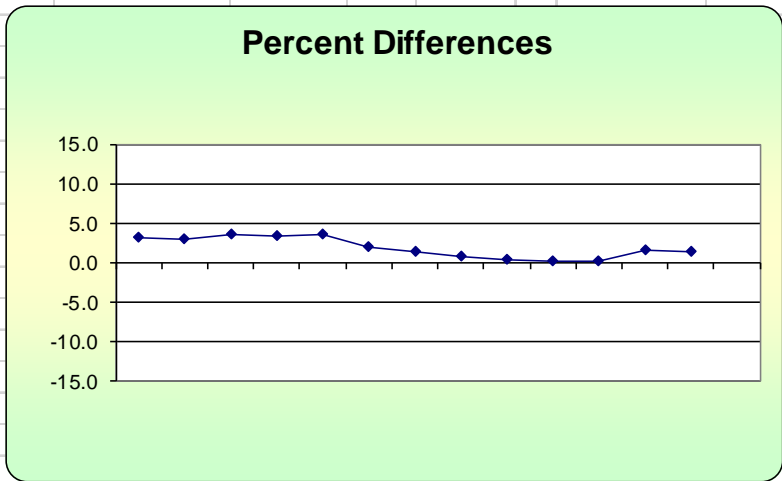


## H2S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



### H<sub>2</sub>S Assessment

GP - Crossett, AR			Pollutant type: H <sub>2</sub> S					CV <sub>ub</sub> (%)	Bias (%)
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d <sup>2</sup>	d	d  <sup>2</sup>		
12/11/2014 13:00	72.2	70.0	3.1	0.714	9.878	3.143	9.878		
12/12/2014 13:00	72.1	70.0	3.0	<b>75th Percentile</b>	9.000	3.000	9.000		
12/13/2014 13:00	72.5	70.0	3.6	3.143	12.755	3.571	12.755	<b>n</b>	<b>S<sub>d</sub></b>
12/14/2014 13:00	72.4	70.0	3.4		11.755	3.429	11.755	13	S <sub>d2</sub>
12/15/2014 13:00	72.5	70.0	3.6		12.755	3.571	12.755	n-1	Σ d
12/16/2014 13:00	51.0	50.0	2.0		4.000	2.000	4.000	12	Σd <sup>2</sup>
12/17/2014 13:00	70.9	70.0	1.3		1.653	1.286	1.653		Σ d  <sup>2</sup>
12/18/2014 13:00	70.5	70.0	0.7		0.510	0.714	0.510		<b>Bias (%) (Eqn 3)</b>
12/19/2014 13:00	70.3	70.0	0.4		0.184	0.429	0.184		Both Signs Positive
12/20/2014 13:00	70.1	70.0	0.1		0.020	0.143	0.020		2.53
12/21/2014 13:00	70.1	70.0	0.1		0.020	0.143	0.020		<b>Signed Bias (%)</b>
12/22/2014 13:00	71.1	70.0	1.6		2.469	1.571	2.469		Both Signs Negative
12/23/2014 13:00	70.9	70.0	1.3		1.653	1.286	1.653		FALSE
									<b>CV (%) (Eqn 2)</b>
									1.84
									<b>Upper Probability Limit</b>
									4.48
									<b>Lower Probability Limit</b>
									-0.74



Meteorological Summary

