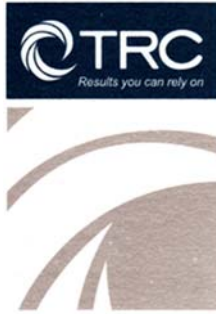


December 6, 2016



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December 6, 2016

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 the biweekly data summary for the Georgia-Pacific (GP) hydrogen sulfide (H<sub>2</sub>S) and meteorological monitoring program, at the GP Crossett mill, covering the calendar period of November 16<sup>th</sup> through November 29<sup>th</sup>.

#### 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.

There were two occurrences of data loss during this monitoring period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. On the afternoon of November 17<sup>th</sup>, TRC performed a manual adjustment of zero and span calibration concentrations. As a result, approximately two hours of H<sub>2</sub>S data was lost on the 17<sup>th</sup>. On the afternoon of November 29<sup>th</sup>, a complete calibration was performed, resulting in approximately one and a half hours of data loss. 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.

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.

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



December 6, 2016

Sincerely,



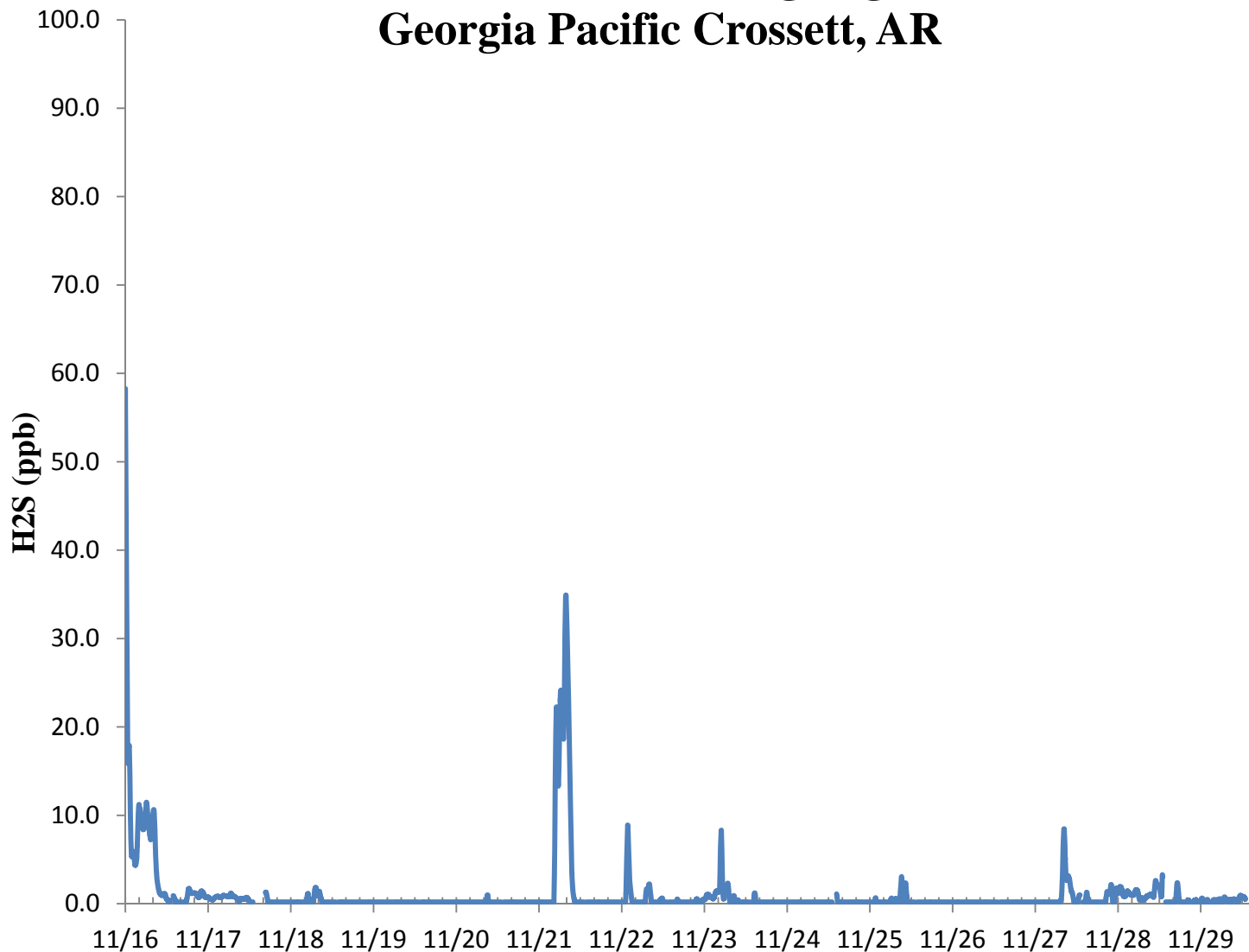
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Jonathan Bowser  
Manager, Air Quality and Meteorological Monitoring

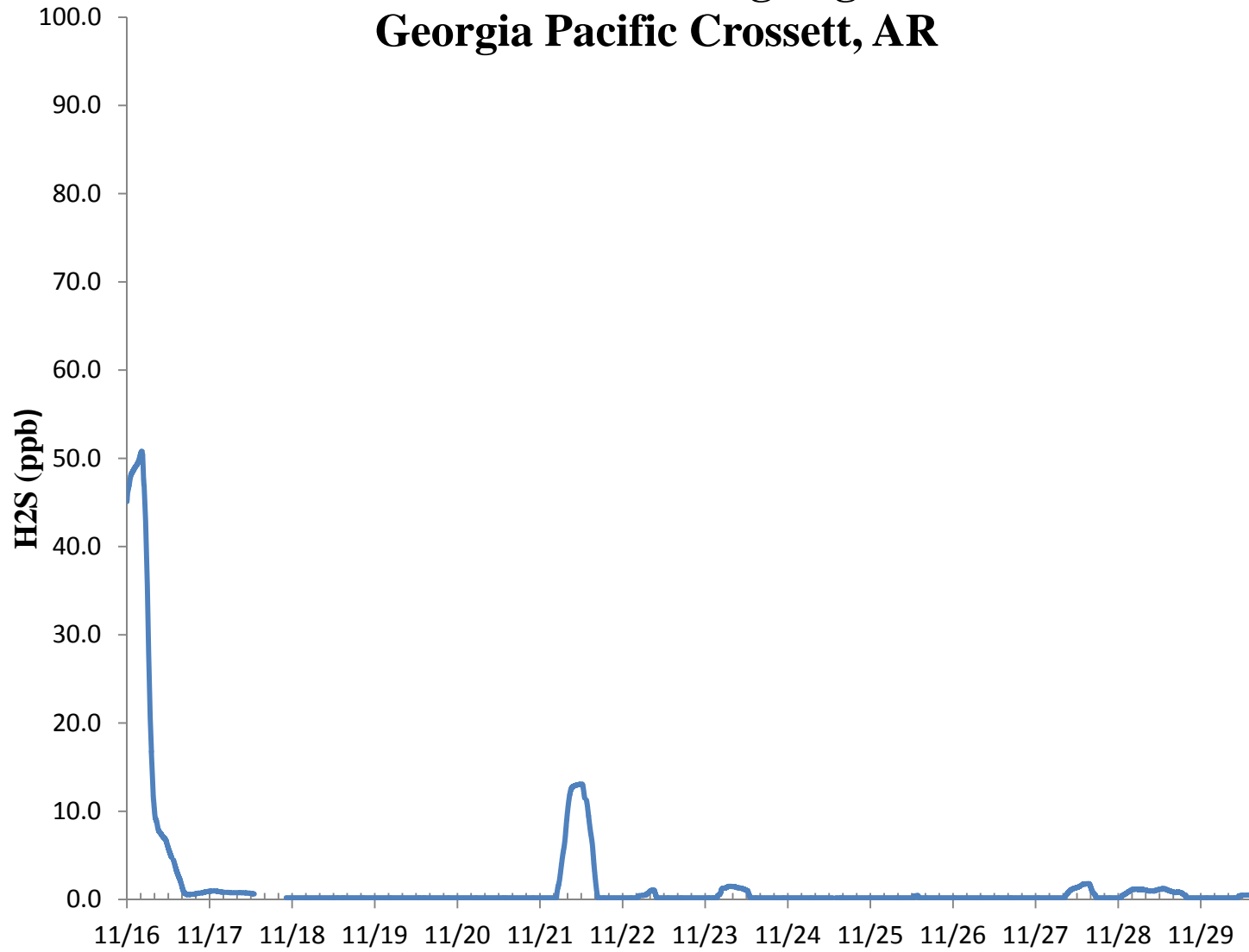
Air Measurements – Gainesville Office  
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Gainesville, Florida 32653  
(352) 260-1162  
Email: [jbowser@trcsolutions.com](mailto:jbowser@trcsolutions.com)

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

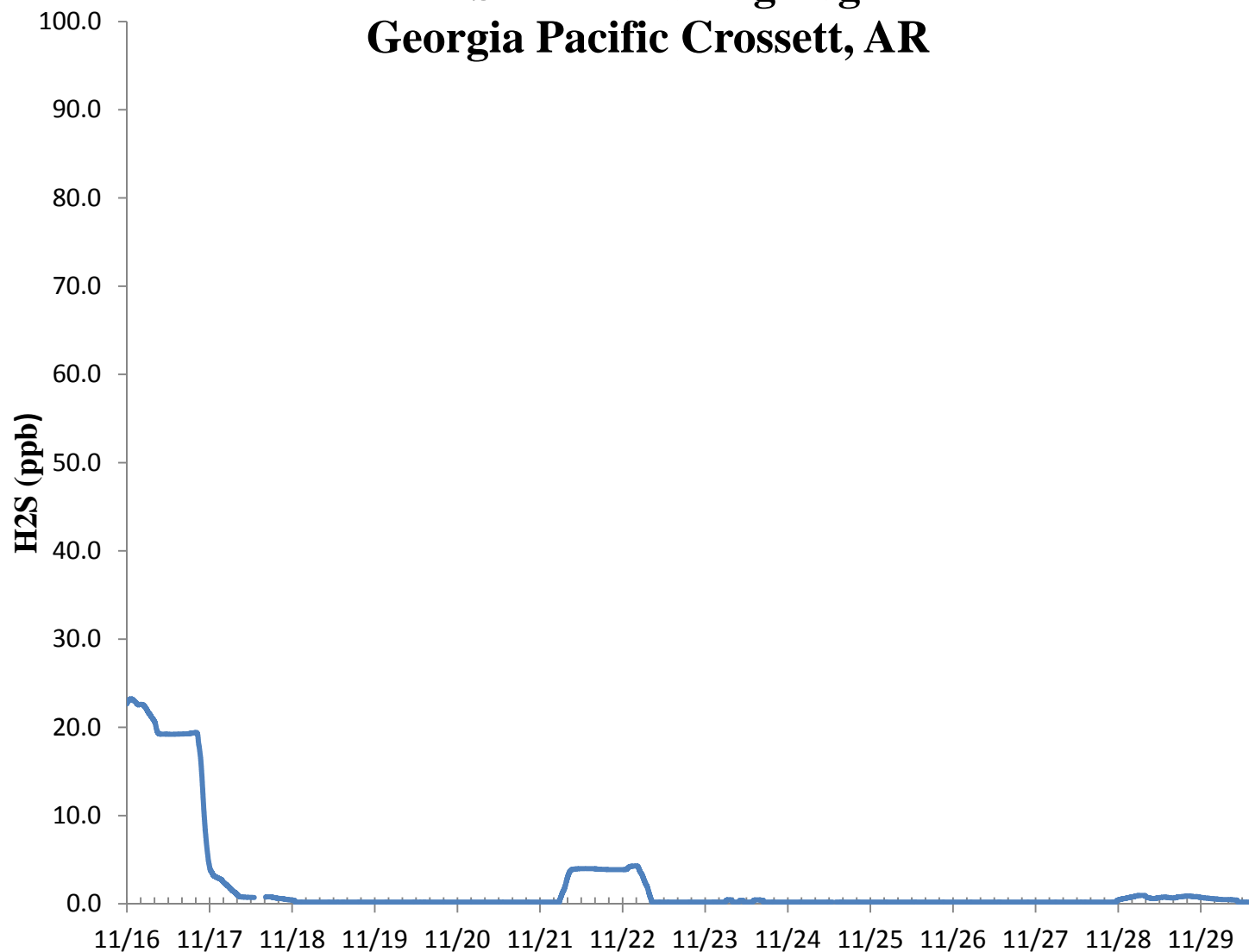
### H2S 30 Min Rolling Avg Georgia Pacific Crossett, AR



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

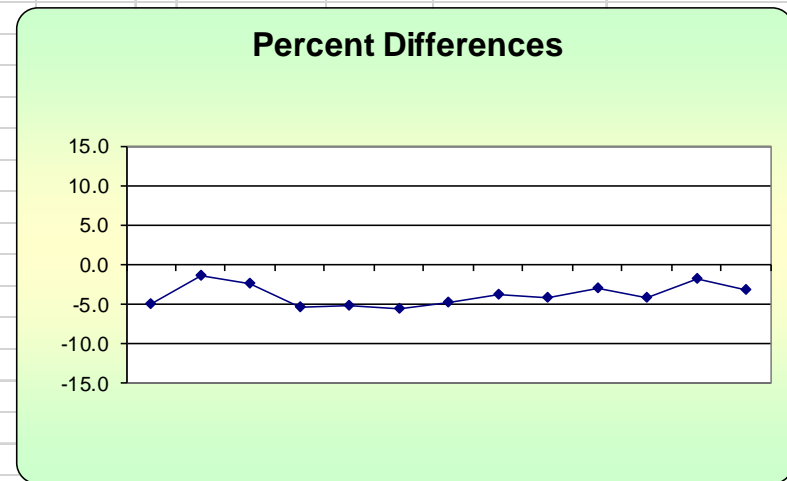


## H2S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



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

GP - Crossett, AR			Compound of Interest: 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>		
11/16/2016 13:00	66.5	70.0	-5.0	-4.964	25.000	5.000	25.000		
11/17/2016 13:00	69.0	70.0	-1.4	75th Percentile	2.041	1.429	2.041	n S <sub>d</sub> S <sub>d2</sub> Σ d  14 1.430 10.137 51.571	"AB" (Eqn 4) 3.684
11/18/2016 13:00	68.3	70.0	-2.4	-2.571	5.898	2.429	5.898		
11/19/2016 13:00	66.3	70.0	-5.3		27.939	5.286	27.939	n-1 Σd Σd <sup>2</sup> Σ d  <sup>2</sup> 13 -51.571 216.551 216.551	"AS" (Eqn 5) 1.430
11/20/2016 13:00	66.4	70.0	-5.1		26.449	5.143	26.449		
11/21/2016 13:00	66.1	70.0	-5.6		31.041	5.571	31.041		
11/22/2016 13:00	66.6	70.0	-4.9		23.592	4.857	23.592		Bias (%) (Eqn 3) Both Signs Positive 4.36 FALSE
11/23/2016 13:00	67.4	70.0	-3.7		13.796	3.714	13.796		
11/24/2016 13:00	67.0	70.0	-4.3		18.367	4.286	18.367	CV (%) (Eqn 2) 1.94	Signed Bias (%) Both Signs Negative -4.36 TRUE
11/25/2016 13:00	67.9	70.0	-3.0		9.000	3.000	9.000		
11/26/2016 13:00	67.1	70.0	-4.1		17.163	4.143	17.163		
11/27/2016 13:00	68.7	70.0	-1.9		3.449	1.857	3.449		
11/28/2016 13:00	67.8	70.0	-3.1		9.878	3.143	9.878	Upper Probability Limit -0.88	Lower Probability Limit -6.49
11/29/2016 13:00	68.8	70.0	-1.7		2.939	1.714	2.939		



Meteorological Summary

