

6312 NW 18th Drive Suite 100 Gainesville, FL 32653

352.378.0332 PHONE 352.378.0354 FAX

www.TRCsolutions.com

January 20, 2015

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,

Following is a data summary for the seventh two-week operational period of the Georgia-Pacific (GP) hydrogen sulfide (H₂S) and meteorological monitoring program at the GP Crossett mill.

Summary of Results

Included in this report are three plots presenting H_2S 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 \pm 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 were two occurrences of data loss during this two week period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks.

On December 23rd, a direct or nearby lightning strike damaged the meteorological data logger as well as the wind and solar radiation (SR) sensors. A TRC field scientist visited the site on December 27th to assess the damage and facilitate repairs. A new data logger was installed, however, damage to the sensors was more severe than anticipated. A new SR and wind sensors were installed on December 30th and January 5th, respectively.

The town of Crossett experienced a power outage the morning of January 3rd, 2015. This power outage resulted in a period of H₂S data loss beginning at 07:40 and lasting two hours.

Results for all automated daily 1-point QC checks fall within the acceptable range, indicating the H₂S



monitor was operating in accordance with the QAPP.

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

Sincerely,

Jonathan Bowser

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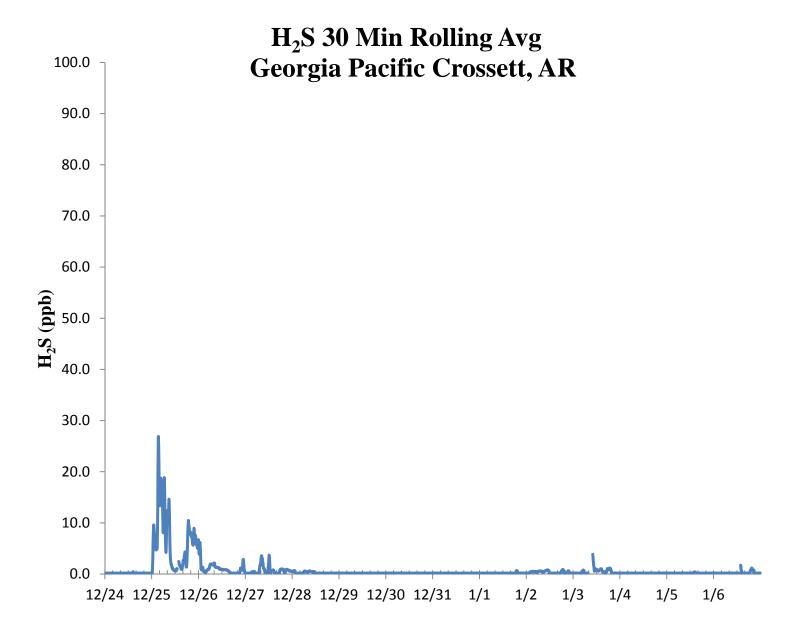
Manager, Air Quality and Meteorological Monitoring

Air Measurements – Gainesville Office 6312 NW 18th Drive, Suite 100 Gainesville, Florida 32653 (352) 260-1162

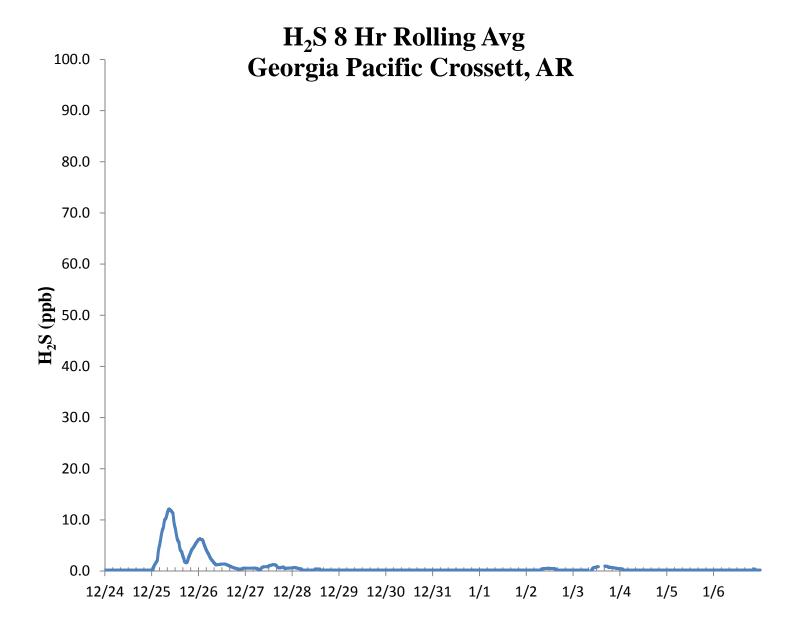
Email: jbowser@trcsolutions.com

CC: Ryan Benefield, ADEQ Director via email:benefield@adeq.state.ar.us Kara Allen, Environmental Engineer, USEPA Region 6 via email <u>Allen.Kara@epa.gov</u>

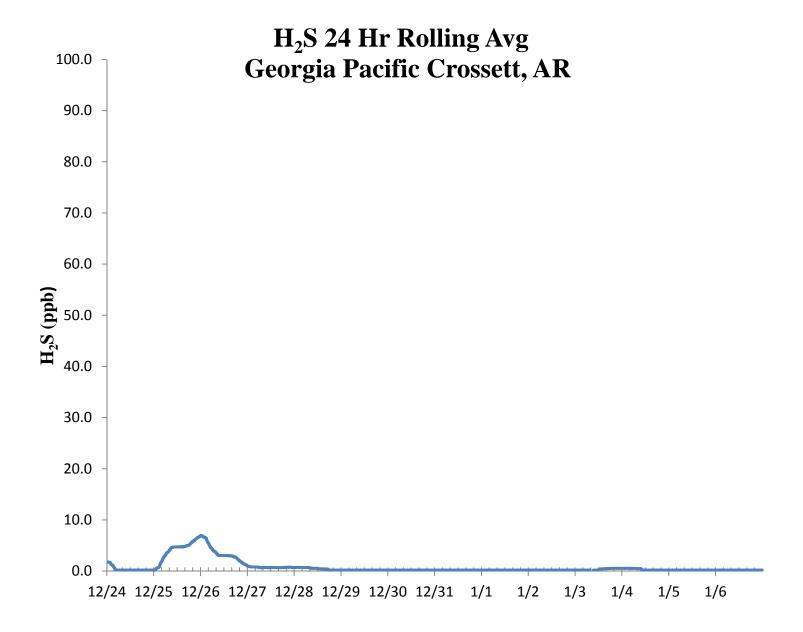














	H ₂ S Assessment											
GP - Crossett, AR			Pollutant type: H ₂ S						CV _{ub} (%)		Bias (%)	
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d²	d	d ²					
12/24/2014 13:00	70.4	70.0	0.6	0.143	0.327	0.571	0.327					
12/25/2014 13:00	71.0	70.0	1.4	75th Percentile	2.041	1.429	2.041	n	S _d	S _{d2}	∑ d	"AB" (Eqn 4)
12/26/2014 13:00	70.4	70.0	0.6	0.679	0.327	0.571	0.327	14	0.889	1.228		0.755
12/27/2014 13:00	70.6	70.0	0.9		0.735	0.857	0.735	n-1	∑d	$\sum d^2$	$\sum \mathbf{d} ^2$	"AS" (Eqn 5)
12/28/2014 13:00	70.4	70.0	0.6		0.327	0.571	0.327	13	5.143	12.163	12.163	0.567
12/29/2014 13:00	70.5	70.0	0.7		0.510	0.714	0.510					
12/30/2014 13:00	69.6	70.0	-0.6		0.327	0.571	0.327				Bias (%) (Eqn 3)	Both Signs Positive
12/31/2014 13:00	69.7	70.0	-0.4		0.184	0.429	0.184				1.02	TRUE
1/1/2015 13:00	70.1	70.0	0.1		0.020	0.143	0.020		CV (%) (Eqn 2)		Signed Bias (%)	Both Signs Negative
1/2/2015 13:00	70.2	70.0	0.3		0.082	0.286	0.082		1.21		+1.02	FALSE
1/3/2015 13:00	71.4	70.0	2.0		4.000	2.000	4.000					
1/4/2015 13:00	70.4	70.0	0.6		0.327	0.571	0.327		Upper Probabili	ty Limit	Lower Probabilit	y Limit
1/5/2015 13:00	68.8	70	-1.7		2.939	1.714	2.939		2.11		-1.38	
1/6/2015 13:00	70.1	70	0.1		0.020	0.143	0.020					
				Percent Differences								
				10.0 5.0 0.0 -5.0 -10.0 -15.0	• • • • •			• -				



