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January 7, 2016

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 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 December 16<sup>th</sup> through December 29<sup>th</sup>.

## 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. A power surge at the meteorological site on December 26<sup>th</sup> disabled the data logger, resulting in an extended period of data loss. The data logger was reset on January 5<sup>th</sup>.

There was a single occurrence of data loss during this two week period, as well as those resulting from automated daily 1-point QC and weekly calibration checks. On December 28<sup>th</sup> the LAN connection was interrupted resulting in approximately 10 hours of data loss. Automated calibration checks were not performed on the 28<sup>th</sup>. Results for all available 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.

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

Sincerely,



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Jonathan Bowser

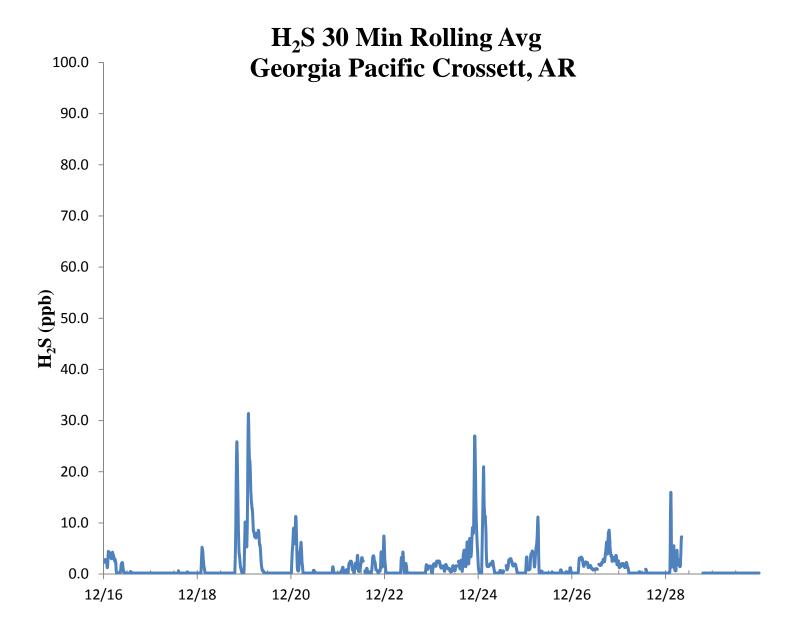
Manager, Air Quality and Meteorological Monitoring

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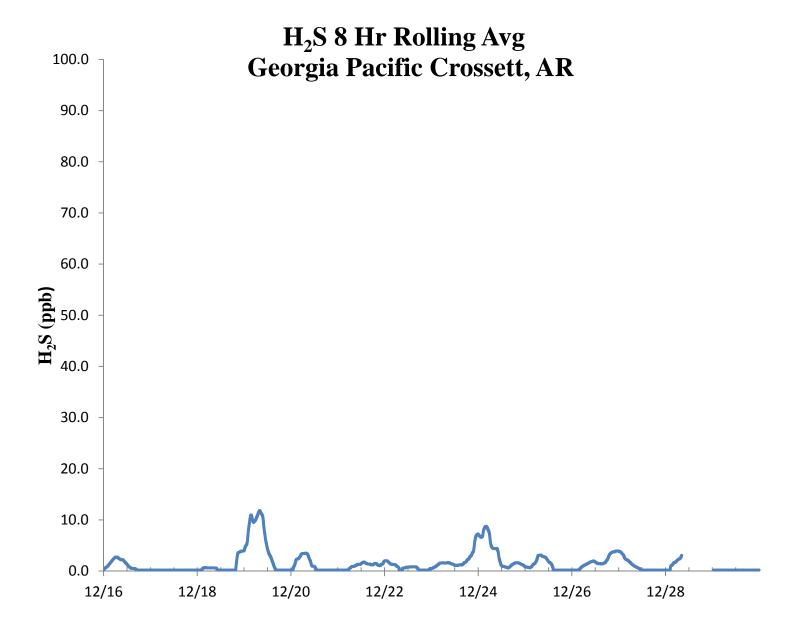
Email: jbowser@trcsolutions.com

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

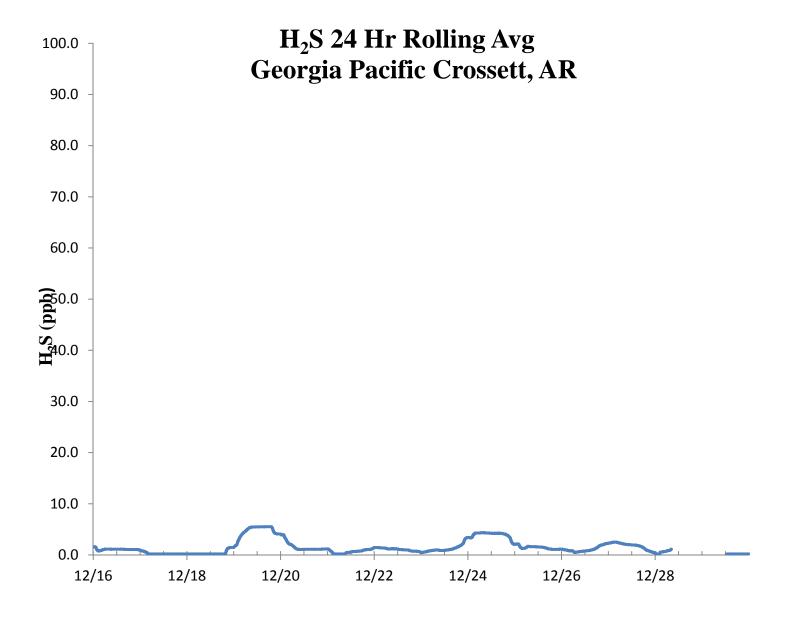














				$H_2S$	Asse	ssment	;				
GP - Crossett, AR			Constituent type: H <sub>2</sub> S				CV <sub>ub</sub> (%)		Bias (%)		
Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d <sup>2</sup>	d	d  <sup>2</sup>					
71.0	70.0	1.4	-0.286	2.041	1.429	2.041					
69.8	70.0	-0.3	75th Percentile	0.082	0.286	0.082	n	S <sub>d</sub>	S <sub>d2</sub>	∑ d	"AB" (Eqn 4)
69.8	70.0	-0.3	1.143	0.082	0.286	0.082	13	0.881	1.084	11.286	0.868
69.7	70.0	-0.4		0.184	0.429	0.184	n-1	∑d	$\sum d^2$	$\sum  d ^2$	"AS" (Eqn 5)
69.9	70.0	-0.1		0.020	0.143	0.020	12	7.000	13.082	13.082	0.523
70.8	70.0	1.1		1.306	1.143	1.306					
70.4	70.0	0.6		0.327	0.571	0.327				Bias (%) (Eqn 3)	Both Signs Positive
71.4	70.0	2.0		4.000	2.000	4.000				1.13	FALSE
70.7	70.0	1.0		1.000	1.000	1.000		CV (%) (Eqn 2)		Signed Bias (%)	Both Signs Negative
70.6	70.0	0.9		0.735	0.857	0.735		1.22			FALSE
70.7	70.0	1.0		1.000	1.000	1.000					
70.8	70.0	1.1				1.306		Upper Probabili	ty Limit	Lower Probabilit	y Limit
69.3						1.000		2.27		-1.19	
						10.0 5.0 0.0 -5.0		Percen	IT DITTE	rences	
	Meas Val (Y) 71.0 69.8 69.8 69.7 69.9 70.8 70.4 71.4 70.7 70.6 70.7 70.8	Meas Val (Y)         Audit Val (X)           71.0         70.0           69.8         70.0           69.8         70.0           69.7         70.0           69.9         70.0           70.8         70.0           70.4         70.0           71.4         70.0           70.7         70.0           70.6         70.0           70.7         70.0           70.7         70.0           70.8         70.0           70.8         70.0	Meas Val (Y)         Audit Val (X)         d (Eqn. 1)           71.0         70.0         1.4           69.8         70.0         -0.3           69.8         70.0         -0.4           69.9         70.0         -0.1           70.8         70.0         1.1           70.4         70.0         0.6           71.4         70.0         2.0           70.7         70.0         1.0           70.7         70.0         1.0           70.7         70.0         1.0           70.7         70.0         1.0           70.7         70.0         1.0           70.7         70.0         1.0           70.8         70.0         1.1	Meas Val (Y)         Audit Val (X)         d (Eqn. 1)         25th Percentile           71.0         70.0         1.4         -0.286           69.8         70.0         -0.3         75th Percentile           69.8         70.0         -0.3         1.143           69.7         70.0         -0.4         -0.4           69.9         70.0         -0.1         -0.1           70.4         70.0         0.6         -0.1           71.4         70.0         2.0         -0.4           70.7         70.0         1.0         -0.2           70.7         70.0         1.0         -0.2           70.7         70.0         1.0         -0.2           70.7         70.0         1.0         -0.2           70.7         70.0         1.0         -0.2           70.7         70.0         1.0         -0.2           70.7         70.0         1.0         -0.2           70.7         70.0         1.0         -0.2           70.8         70.0         1.0         -0.2           70.0         1.0         -0.2         -0.2           70.0         1.0         -0.2         <	P - Crossett, AR   Constituent type: H <sub>2</sub> S   d <sup>2</sup>	Neas Val (Y)   Audit Val (X)   d (Eqn. 1)   25th Percentile   d <sup>2</sup>    d    71.0   70.0   1.4   -0.286   2.041   1.429   69.8   70.0   -0.3   75th Percentile   0.082   0.286   69.8   70.0   -0.3   1.143   0.082   0.286   69.7   70.0   -0.4   0.184   0.429   69.9   70.0   -0.1   0.020   0.143   70.8   70.0   1.1   1.306   1.143   70.4   70.0   0.6   0.327   0.571   71.4   70.0   2.0   4.000   2.000   70.7   70.0   1.0   1.000   1.000   70.6   70.0   0.9   0.735   0.857   70.7   70.0   1.1   1.306   1.143   69.3   70.0   -1.0   1.000   1.000   1.000   1.000   70.8   70.0   -1.0   1.00	Neas Val (Y)   Audit Val (X)   d (Eqn. 1)   25th Percentile   d²    d     d ²        d ²	Meas Val (Y)   Audit Val (X)   d (Eqn. 1)   25th Percentile   d²    d     d ²	Constituent type: H <sub>2</sub> S	Constituent type: H <sub>2</sub> S	Neas Val (Y)   Audit Val (X)   d (Eqn. 1)   25th Percentile   d   d   d     d     d     d     d     d     d     d     d     d     d   d   d     d     d     d     d     d     d     d     d     d     d   d     d     d     d     d     d     d     d     d     d



