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June 11, 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 - Monthly Air Monitoring Report for Hydrogen Sulfide

Dear Ms. Simmons,

Following is a data summary for the monthly operational period of 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 May  $1^{st}$  through  $31^{st}$ , 2015.

## 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 monthly 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.

Thirty-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 is a single occurrence of data loss during this monthly period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. A total of approximately six hours of H<sub>2</sub>S data were lost on May 27<sup>th</sup>, while a manual calibration was performed on the H<sub>2</sub>S analyzer.

As a result of the manual calibration, an automated daily 1-point QC check was not performed on May 27<sup>h</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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CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us Kara Allen, Environmental Engineer, USEPA Region 6 via email <u>Allén.Kara@epa.gov</u>















					H <sub>2</sub> S	Asses	sment	t					
GI	P - Crossett, AR	2	Constituen	t 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>						
5/1/2015 13:00	74.8	70.0	6.9	6.000	47.020	6.857	47.020						
5/2/2015 13:00	74.0	70.0	5.7	75th Percentile	32.653	5.714	32.653	n	Sd	S <sub>d2</sub>	∑ d	"AB" (Eqn 4)	
5/3/2015 13:00	74.6	70.0	6.6	6.571	43.184	6.571	43.184	30	1.522	13.372	174.143	5.805	
5/4/2015 13:00	74.3	70.0	6.1		37.735	6.143	37.735	n-1	∑d	∑d²	∑ d ²	"AS" (Eqn 5)	
5/5/2015 13:00	74.5	70.0	6.4		41.327	6.429	41.327	29	174.143	1078.061	1078.061	1.522	
5/6/2015 13:00	74.6	70.0	6.6		43.184	6.571	43.184			7			
5/7/2015 13:00	74.9	70.0	7.0		49.000	7.000	49.000				Bias (%) (Eqn 3)	Both Signs Positive	
5/8/2015 13:00	74.8	70.0	6.9		47.020	6.857	47.020		1		6.28	TRUE	
5/9/2015 13:00	74.8	70.0	6.9		47.020	6.857	47.020		CV (%) (Eqn 2)		Signed Bias (%)	Both Signs Negative	
5/10/2015 13:00	74.4	70.0	6.3		39.510	6.286	39.510		1.84		+6.28	FALSE	
5/11/2015 13:00	74.4	70.0	6.3		39.510	6.286	39.510						
5/12/2015 13:00	74.2	70.0	6.0		36.000	6.000	36.000		Upper Probabil	ity Limit	Lower Probabilit	y Limit	
5/13/2015 13:00	74.2	70.0	6.0		36.000	6.000	36.000		8.79		2.82		
5/14/2015 13:00	74.3	70.0	6.1		37.735	6.143	37.735	$\left( \right)$					
5/15/2015 13:00	74.8	70.0	6.9		47.020	6.857	47.020			Per	rcent Differ	ences	
5/16/2015 13:00	74.2	70.0	6.0		36.000	6.000	36.000						
5/17/2015 13:00	74.4	70.0	6.3		39.510	6.286	39.510						
5/18/2015 13:00	74.3	70.0	6.1		37.735	6.143	37.735						
5/19/2015 13:00	74.7	70.0	6.7		45.082	6.714	45.082		15.0				
5/20/2015 13:00	74.4	70.0	6.3		39.510	6.286	39.510		10.0				
5/21/2015 13:00	74.8	70.0	6.9		47.020	6.857	47.020		50		*****	++++++++	
5/22/2015 13:00	73.8	70.0	5.4		29.469	5.429	29.469		3.0				
5/23/2015 13:00	74.3	70.0	6.1		37.735	6.143	37.735		0.0 +				
5/24/2015 13:00	74.3	70.0	6.1		37.735	6.143	37.735		-5.0				
5/25/2015 13:00	74.6	70.0	6.6	/	43.184	6.571	43.184						
5/26/2015 13:00	74.6	70.0	6.6		43.184	6.571	43.184		-10.0				
5/28/2015 13:00	71.6	70.0	2.3		5.224	2.286	5.224		-15.0				
5/29/2015 13:00	71.5	70.0	2.1		4.592	2.143	4.592						
5/30/2015 13:00	71.2	70.0	1.7		2.939	1.714	2.939						
5/21/2015 12:00	71.6	70.0	22		5 224	2 200	5 224						









