

6312 NW 18th Drive Suite 100 Gainesville, FL 32653

352.378.0332 PHONE 352.378.0354 FAX

www.TRCsolutions.com

April 21, 2017

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 (H₂S) and meteorological monitoring program, at the GP Crossett mill, covering the calendar period of March 8, 2017 through March 21, 2017.

Summary of Results

Included in this report are three plots presenting H₂S concentrations calculated with varied rolling average periods (30-minute, 8-hour, and 24-hour). Please note, elevated H₂S concentrations were recorded on March 9th and 21st. The highest recorded 30-minute and 8-hour rolling averages are presented in the table below.

	Maximum Concentrations and Time Recorded								
Date	30 minute	8 hour							
March 9, 2017	103.93 ppb at 20:32	33.9 ppb at 02:29– 02:30*							
March 21, 2017	11.71 ppb at 22:51	36.88 at 23:59							

^{* -} recorded the following day

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.

Additionally, weekly automated zero adjustment shave been put in place beginning February 1, 2017, so as to limit the effect of the analyzer's zero drift. There were a total of two zero checks performed during this biweekly report period; both within the acceptable range of \pm 1.5 ppb, as defined in the QAPP. Results for these zero checks are presented below.



Date	Zero Check				
3/9/2017	0.5				
3/16/2017	0.6				

There was a single occurrences of data loss during this monitoring period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. A PC failure occurred late in the afternoon of March 20th. The PC was reset the following morning; resulting in approximately 17 & ½ hours of data loss. Results for available automated daily 1-point QC checks fall within the acceptable range, indicating the H₂S 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.

Sincerely,

Jonathan Bowser

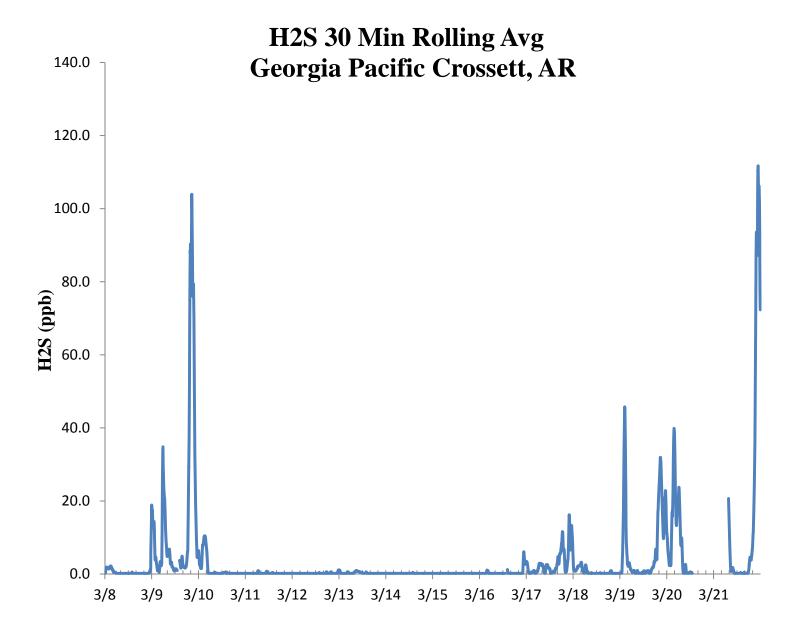
Manager, Air Quality and Meteorological Monitoring

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

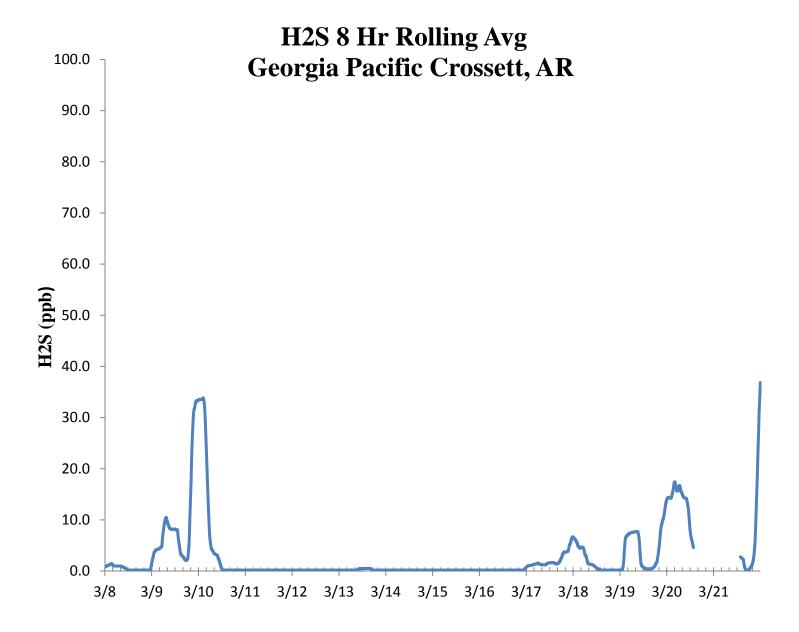
Email: jbowser@trcsolutions.com

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

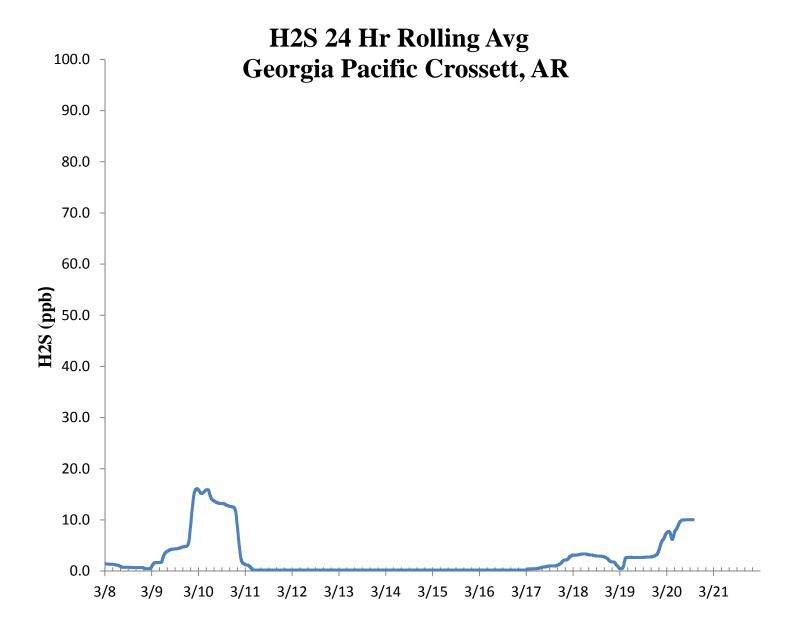














					H_2S	Asse	ssment	t				
GP - Crossett, AR		Compound of Interest: H ₂ S					CV _{ub} (%)		Bias (%)			
Date	Meas Val (Y)			25th Percentile	d²	d	d ²					
3/8/2017 13:00	67.6	70.0	-3.4	-3.357	11.755	3.429	11.755					
3/9/2017 13:00	69.0	70.0	-1.4	75th Percentile	2.041	1.429	2.041	n	S _d	S _{d2}	∑ d	"AB" (Eqn 4)
3/10/2017 13:00	68.7	70.0	-1.9	-2.571	3.449	1.857	3.449	14	0.737	4.157	40.000	2.85
3/11/2017 13:00	68.2	70.0	-2.6		6.612	2.571	6.612	n-1	∑d	$\sum d^2$	$\sum \mathbf{d} ^2$	"AS" (Eqn 5)
3/12/2017 13:00	67.5	70.0	-3.6		12.755	3.571	12.755	13	-40.000	121.347	121.347	0.73
3/13/2017 13:00	68.5	70.0	-2.1		4.592	2.143	4.592					
3/14/2017 13:00	68.0	70.0	-2.9		8.163	2.857	8.163				Bias (%) (Eqn 3)	Both Signs Positive
3/15/2017 13:00	67.1	70.0	-4.1		17.163	4.143	17.163				3.21	FALSE
3/16/2017 13:00	67.4	70.0	-3.7		13.796	3.714	13.796		CV (%) (Eqn 2)		Signed Bias (%)	Both Signs Negative
3/17/2017 13:00	68.0	70.0	-2.9		8.163	2.857	8.163		1		-3.21	TRUE
3/18/2017 13:00	67.8	70.0	-3.1		9.878	3.143	9.878					
3/19/2017 13:00	67.9	70.0	-3.0		9.000	3.000	9.000		Upper Probabil	ity Limit	Lower Probabilit	y Limit
3/20/2017 13:00	68.2	70.0	-2.6		6.612	2.571	6.612		-1.41		-4.3	
3/21/2017 13:00	68.1	70.0	-2.7		7.367	2.714	7.367					
									Perce	ent Diff	ferences	
							15.0 T					
							10.0					
							5.0					
							0.0					
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							-10.0					
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