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July 26, 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 June 14, 2017 through June 27, 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).

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 adjustments have been put in place beginning February 1, 2017, so as to limit the effect of the analyzer's zero drift. During this reporting period there were a total of 13 zero checks performed; all 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	Date	Zero Check
6/14/2017	0.1	6/21/2017	0.2
6/15/2017	0.3	6/22/2017	0.4
6/16/2017	0.2	6/23/2017	0.3
6/17/2017	0.1	6/24/2017	0.3
6/18/2017	-0.1	6/25/2017	0.4
6/19/2017	0.2	6/26/2017	0.3
6/20/2017	0.2		



There were multiple occurrences of data loss during this monitoring period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. TRC has continued to perform manual multipoint checks (zero, \sim 70 ppb, and \sim 400 ppb) on a daily basis. The daily manual checks are responsible for approximately and hour and a half of data loss each day, from June 14th – June 26th. Results from the manual checks fall within the acceptable range, indicating the H₂S monitor was operating in accordance with the QAPP. These results were used in calculating the CV as shown in the table that follows. On June 27th TRC personnel were on site to perform maintenance and to troubleshoot calibration system, resulting in approximately four hours of data loss. Due to the maintenance performed on the 27th, there was not a calibration check on that day, however the check on the 28th was within the acceptance criteria.

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

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Manager, Air Quality and Meteorological Monitoring

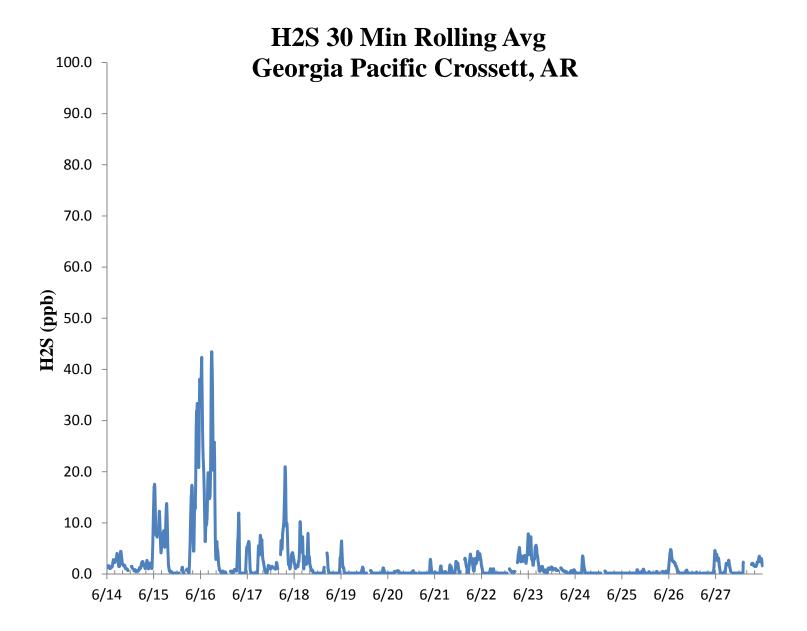
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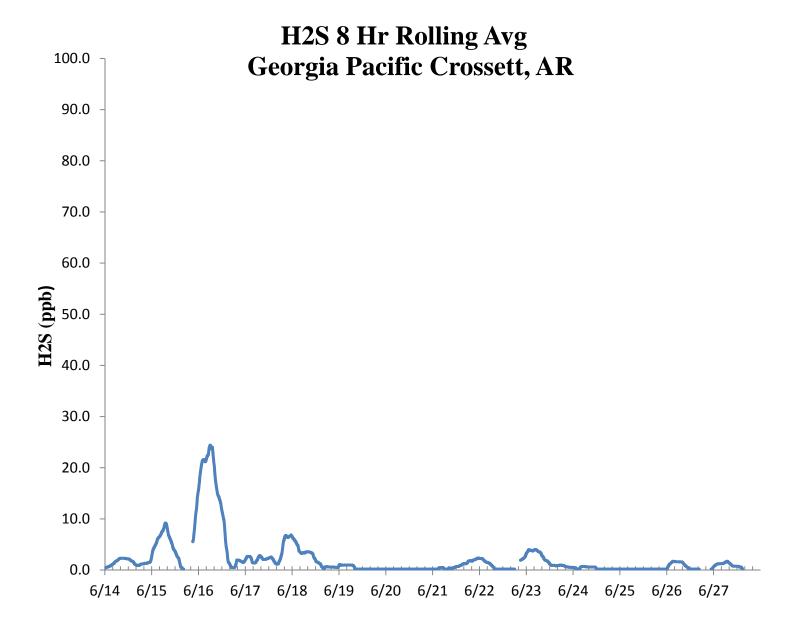
Email: jbowser@trcsolutions.com

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

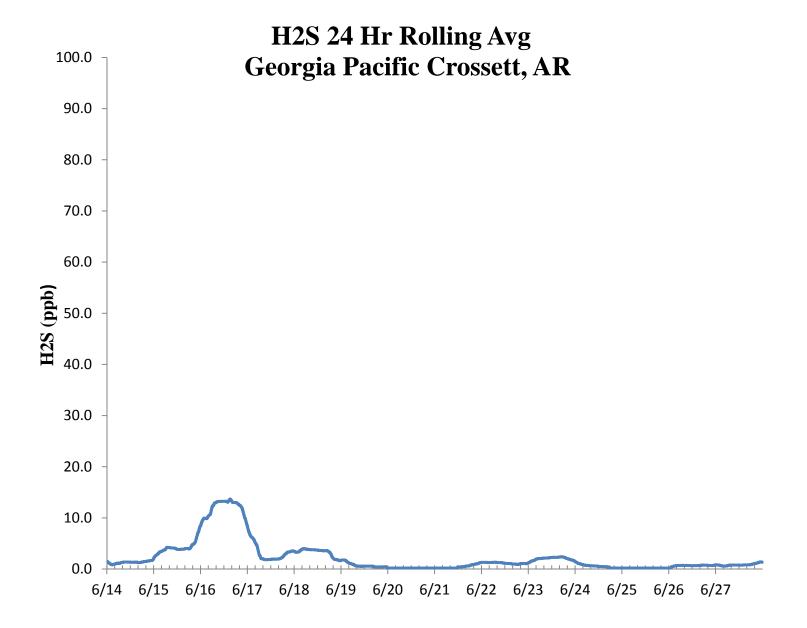














					H_2S	Asse	ssment	t					
GI	P - Crossett, AR	<u> </u>	Compound	of Interest: H ₂ S					CV _{ub} (%)		Bias (%)		
Date	Meas Val (Y)	Audit Val (X)		25th Percentile	d²	d	d ²						
5/14/2017 13:00	74.0	71.0	4.2	5.634	17.854	4.225	17.854						
5/15/2017 13:00	75.0	71.0	5.6	75th Percentile	31.740	5.634	31.740	n	S _d	S _{d2}	∑ d	"AB" (Eqn 4)	
5/16/2017 13:00	74.0	71.0	4.2	7.042	17.854	4.225	17.854	13	0.986	11.364	77.324	5.94	
6/17/2017 13:00	75.0	71.0	5.6		31.740	5.634	31.740	n-1	∑d	$\sum d^2$	$\sum \mathbf{d} ^2$	"AS" (Eqn 5)	
6/18/2017 13:00	75.0	71.0	5.6		31.740	5.634	31.740	12	77.324	471.593	471.593	0.98	
6/19/2017 13:00	76.0	71.0	7.0		49.593	7.042	49.593						
5/20/2017 13:00	75.0	71.0	5.6		31.740	5.634	31.740				Bias (%) (Eqn 3)	Both Signs Positive	
6/21/2017 13:00	75.0	71.0	5.6		31.740	5.634	31.740				6.44		
5/22/2017 13:00	75.7	71.0	6.6		43.821	6.620	43.821		CV (%) (Eqn 2)		Signed Bias (%)	Both Signs Negativ	
5/23/2017 13:00	76.0	71.0	7.0		49.593	7.042	49.593		1.36		+6.44	FALSE	
5/24/2017 13:00	75.2	71.0	5.9		34.993	5.915	34.993						
5/25/2017 13:00	76.0	71.0	7.0		49.593	7.042	49.593		Upper Probabili	ity Limit	Lower Probabilit	y Limit	
5/26/2017 13:00	76.0	71.0	7.0		49.593	7.042	49.593		7.88		4.02		
									Percent Differences				
							15.0						
							10.0	•			•	•	
							-5.0			1 1			
							-10.0 -15.0						



