6312 NW 18th Drive
Suite 100
Gainesville, FL 32653

352.378.0332 PHONE
352.378.0354 FAX

www.TRCsolutions.com

November 10, 2014

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 second two weeks of operation of the Georgia-Pacific (GP) hydrogen sulfide (H_2S) 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 ± 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 no periods of data loss during this two week period, other than those resulting from automated daily 1-point QC and weekly calibration checks. Results for all automated daily 1-point QC checks fall within the acceptable range, indicating the H_2S 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
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

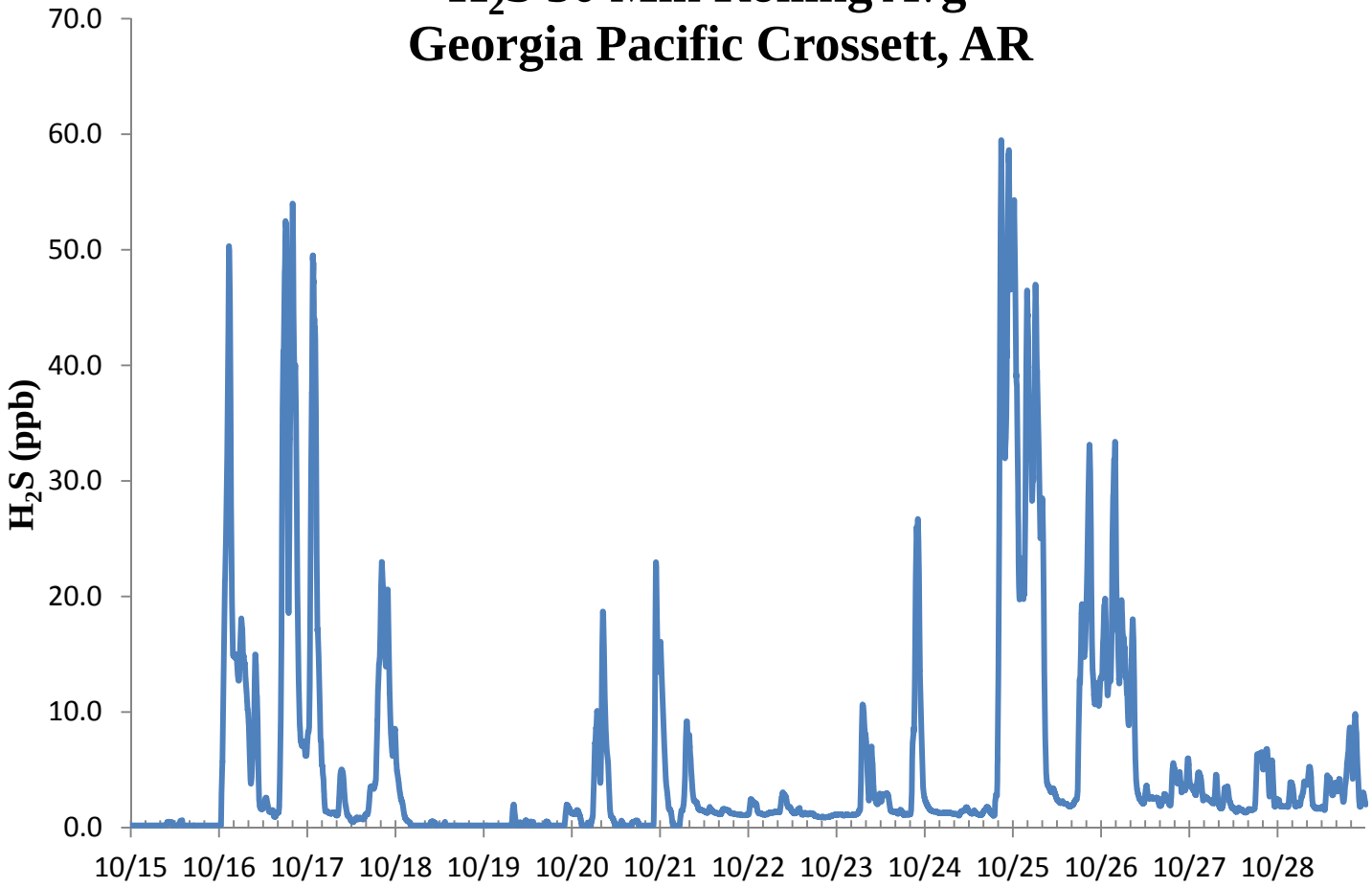
CC: Ryan Benefield, ADEQ Director via email:benefield@adeq.state.ar.us
Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov

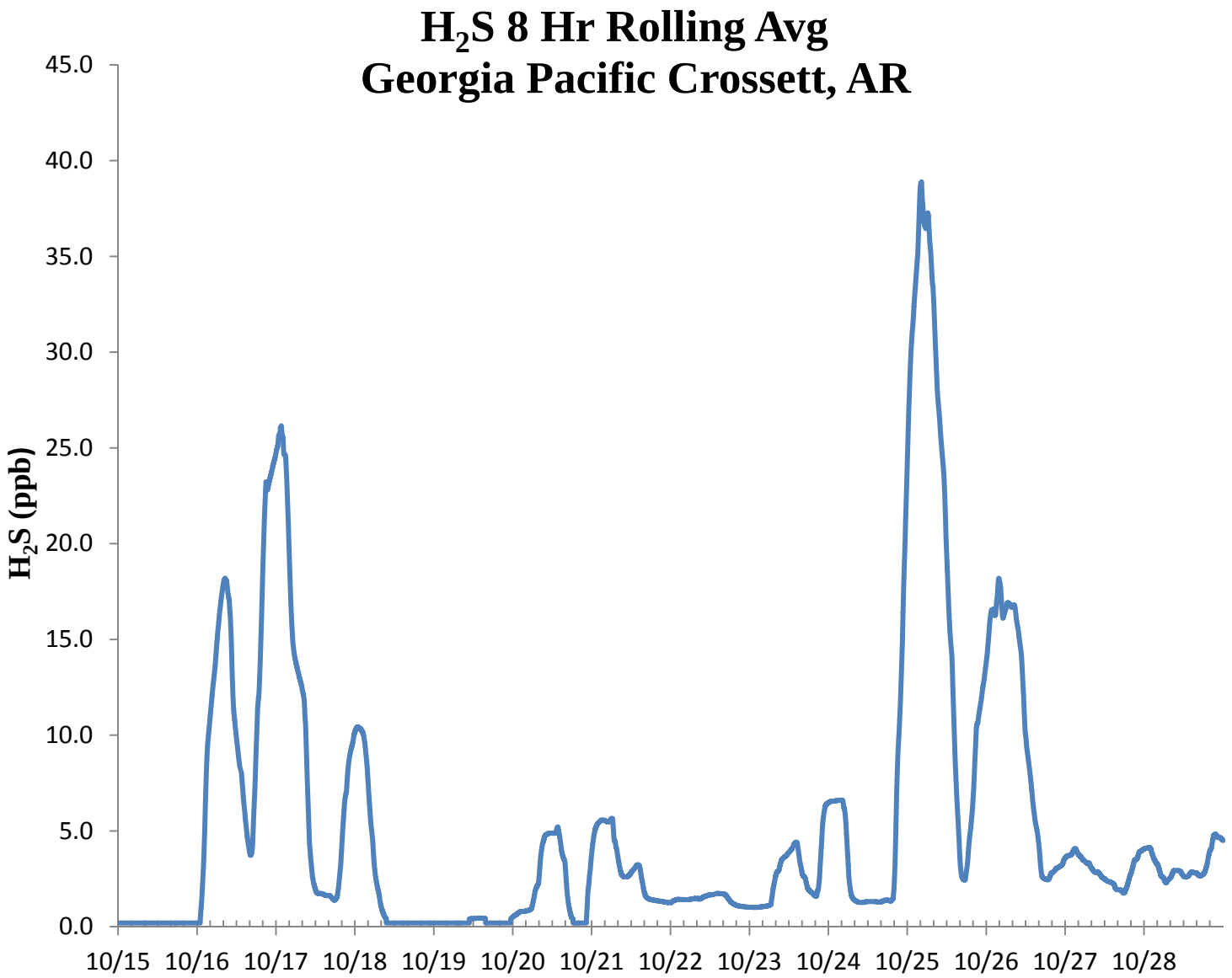
6312 NW 18th Drive
Suite 100
Gainesville, FL 32653

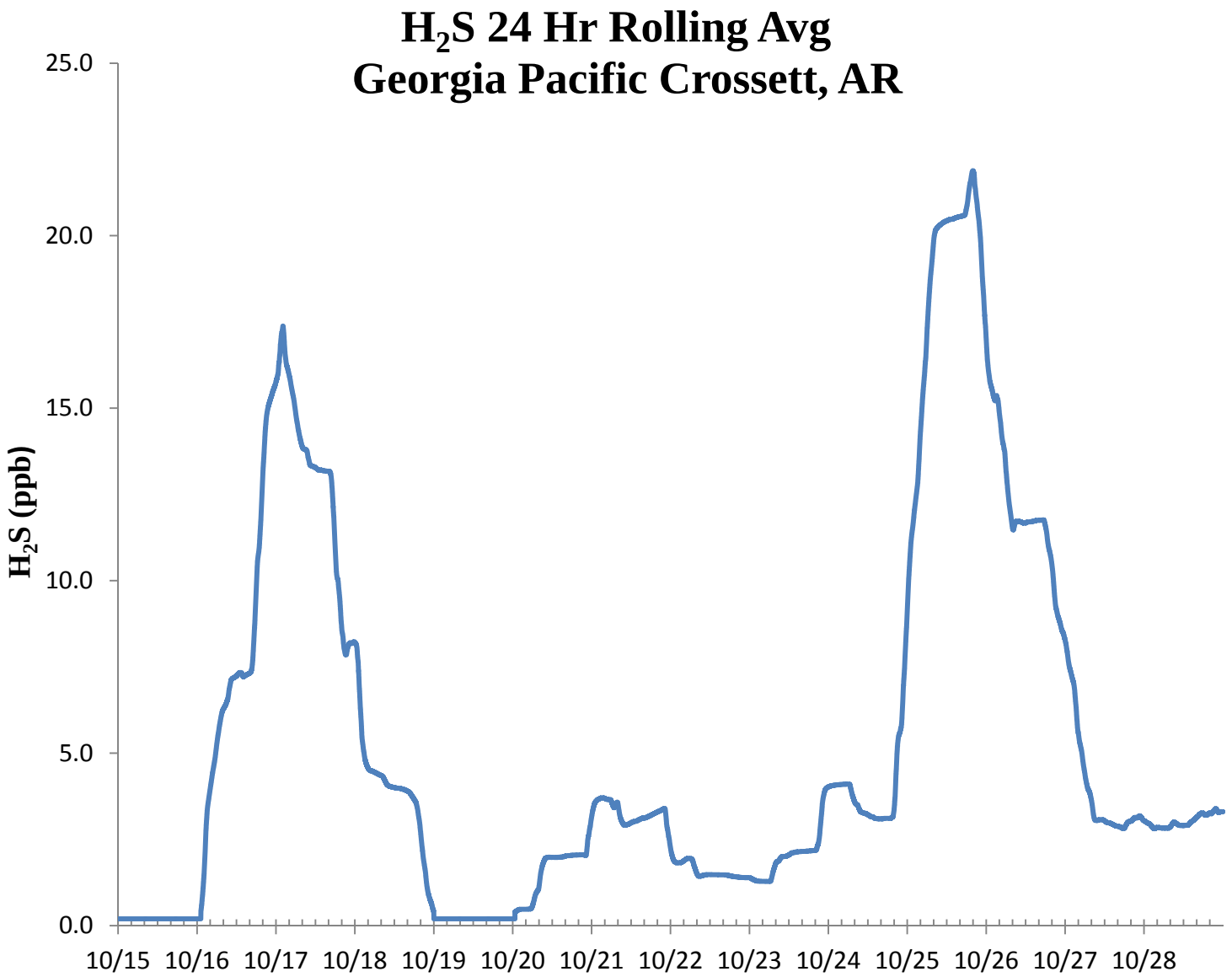
352.378.0332 PHONE
352.378.0354 FAX

www.TRCsolutions.com

H_2S 30 Min Rolling Avg
Georgia Pacific Crossett, AR




H2S 8 Hr Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
10/15
10/16
10/17
10/18
10/19
10/20
10/21
10/22
10/23
10/24
10/25
10/26
10/27
10/28


H2S 24 Hr Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
25.0
20.0
15.0
10.0
5.0
0.0
10/15
10/16
10/17
10/18
10/19
10/20
10/21
10/22
10/23
10/24
10/25
10/26
10/27
10/28

H_2S Assessment

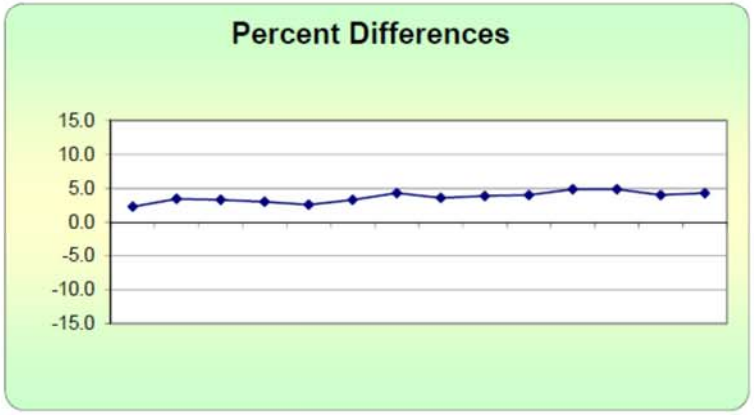
GP - Crossett, AR			Pollutant type: H_2S					CV_{ub} (%)		Bias (%)	
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d^2	|d|	$\|d\|^2$				
10/15/2014 13:00	71.6	70.0	2.3	3.286	5.224	2.286	5.224				
10/16/2014 13:00	72.4	70.0	3.4	75th Percentile	11.755	3.429	11.755	n	S_d	S_{d2}	$\Sigma\|d\|$
10/17/2014 13:00	72.3	70.0	3.3	4.214	10.796	3.286	10.796	14	0.773	5.646	51.571
10/18/2014 13:00	72.1	70.0	3.0		9.000	3.000	9.000	n-1	Σd	Σd^2	$\Sigma\|d\|^2$
10/19/2014 13:00	71.8	70.0	2.6		6.612	2.571	6.612	13	51.571	197.735	197.735
10/20/2014 13:00	72.3	70.0	3.3		10.796	3.286	10.796				
10/21/2014 13:00	73.0	70.0	4.3		18.367	4.286	18.367				
10/22/2014 13:00	72.5	70.0	3.6		12.755	3.571	12.755				
10/23/2014 13:00	72.7	70.0	3.9		14.878	3.857	14.878				
10/24/2014 13:00	72.8	70.0	4.0		16.000	4.000	16.000				
10/25/2014 13:00	73.4	70.0	4.9		23.592	4.857	23.592				
10/26/2014 13:00	73.4	70.0	4.9		23.592	4.857	23.592				
10/27/2014 13:00	72.8	70.0	4.0		16.000	4.000	16.000				
10/28/2014 13:00	73.0	70.0	4.3		18.367	4.286	18.367				

"AB" (Eqn 4)	
	3.684
"AS" (Eqn 5)	
	0.773

Bias (%) (Eqn 3)	Both Signs Positive
4.05	TRUE
Signed Bias (%)	Both Signs Negative
+4.05	FALSE

CV (%) (Eqn 2)
1.05

Upper Probability Limit	Lower Probability Limit
5.2	2.17



Meteorological Summary