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December 2, 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 fourth two-week operational period 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 two occurrences of data loss during this two week period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. On November 16th and 19th, a communication error with the H_2S monitor caused the instrument's internal logger to stop recording data. Investigation of the error revealed that the local area network settings were not retained within the instrument, likely due to an operating system error. These settings were reentered and the instrument was restarted. As of this time, the error has not recurred.

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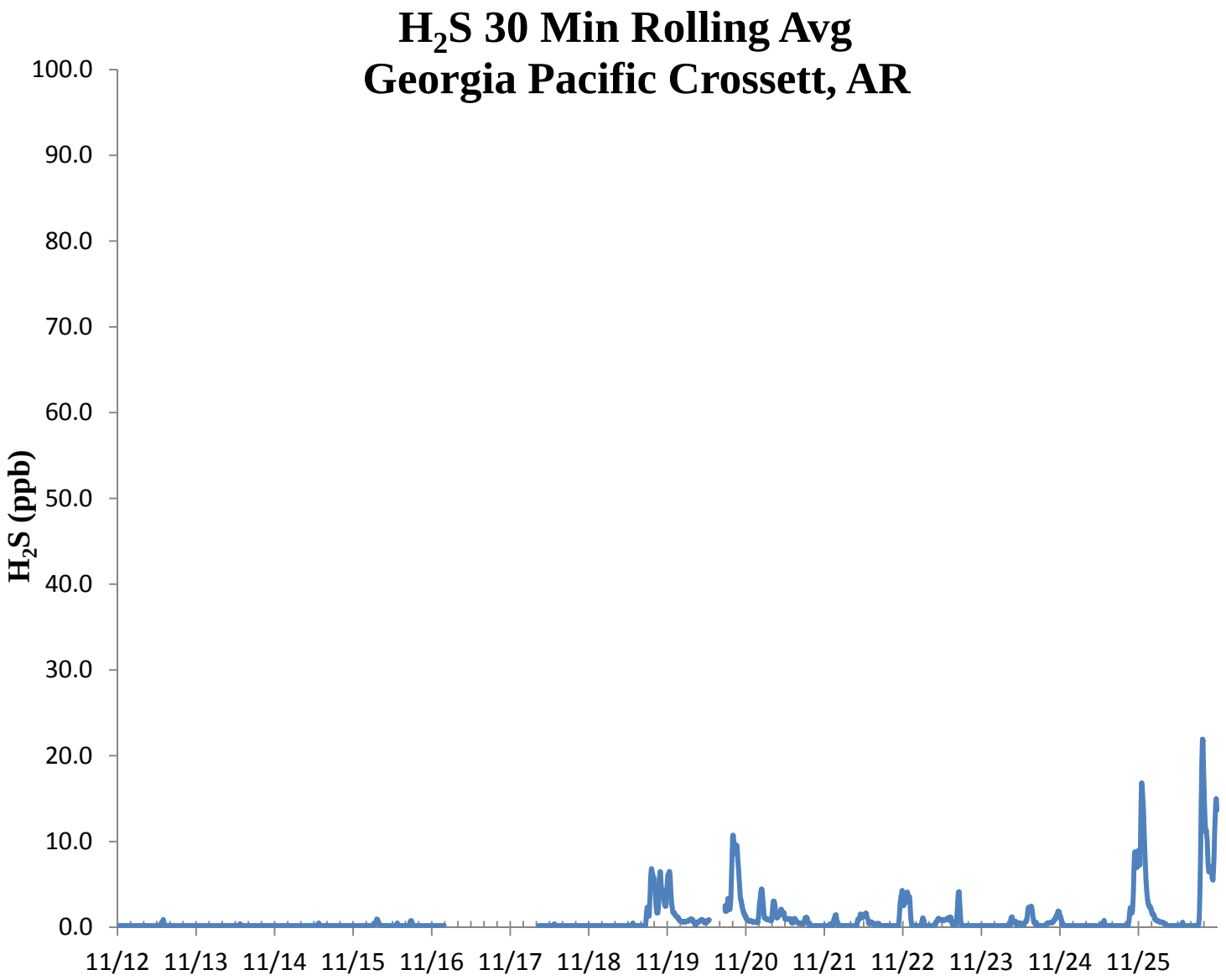
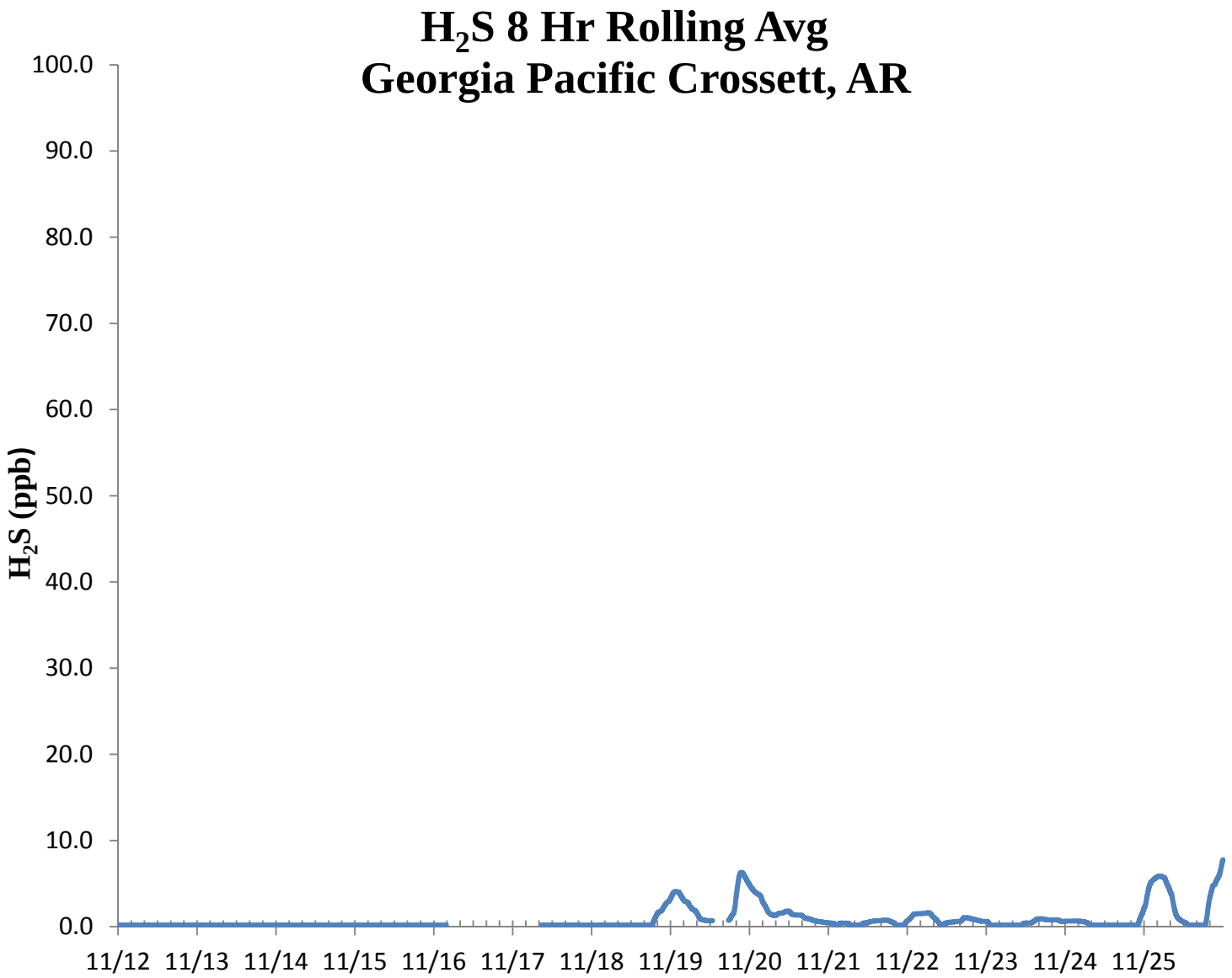
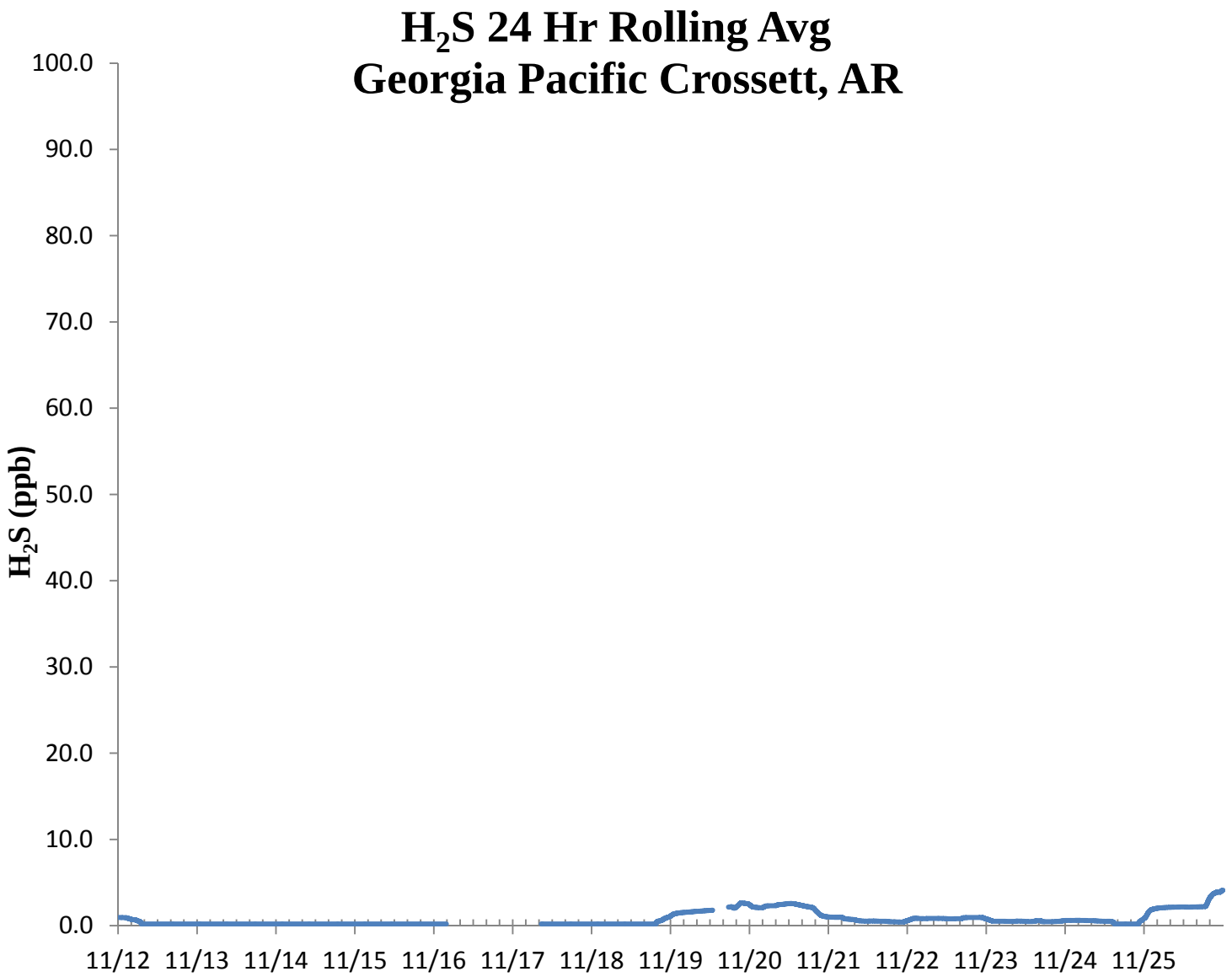
CC: Ryan Benefield, ADEQ Director via email:benefield@adeq.state.ar.us
Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov

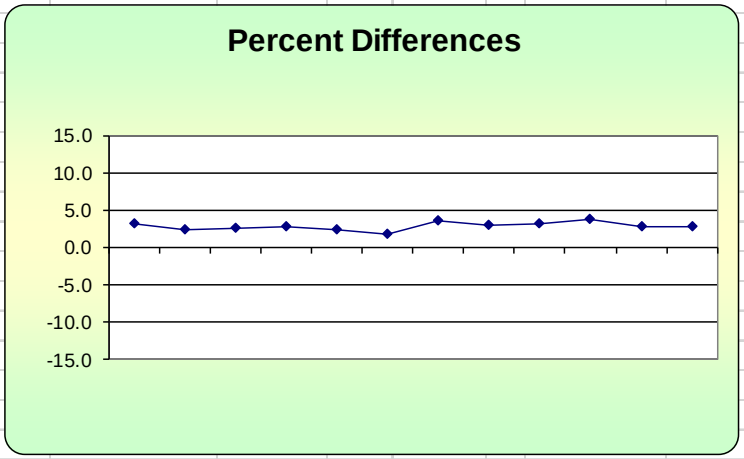

H2S 30 Min Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
11/12
11/13
11/14
11/15
11/16
11/17
11/18
11/19
11/20
11/21
11/22
11/23
11/24
11/25


H2S 8 Hr Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
11/12
11/13
11/14
11/15
11/16
11/17
11/18
11/19
11/20
11/21
11/22
11/23
11/24
11/25

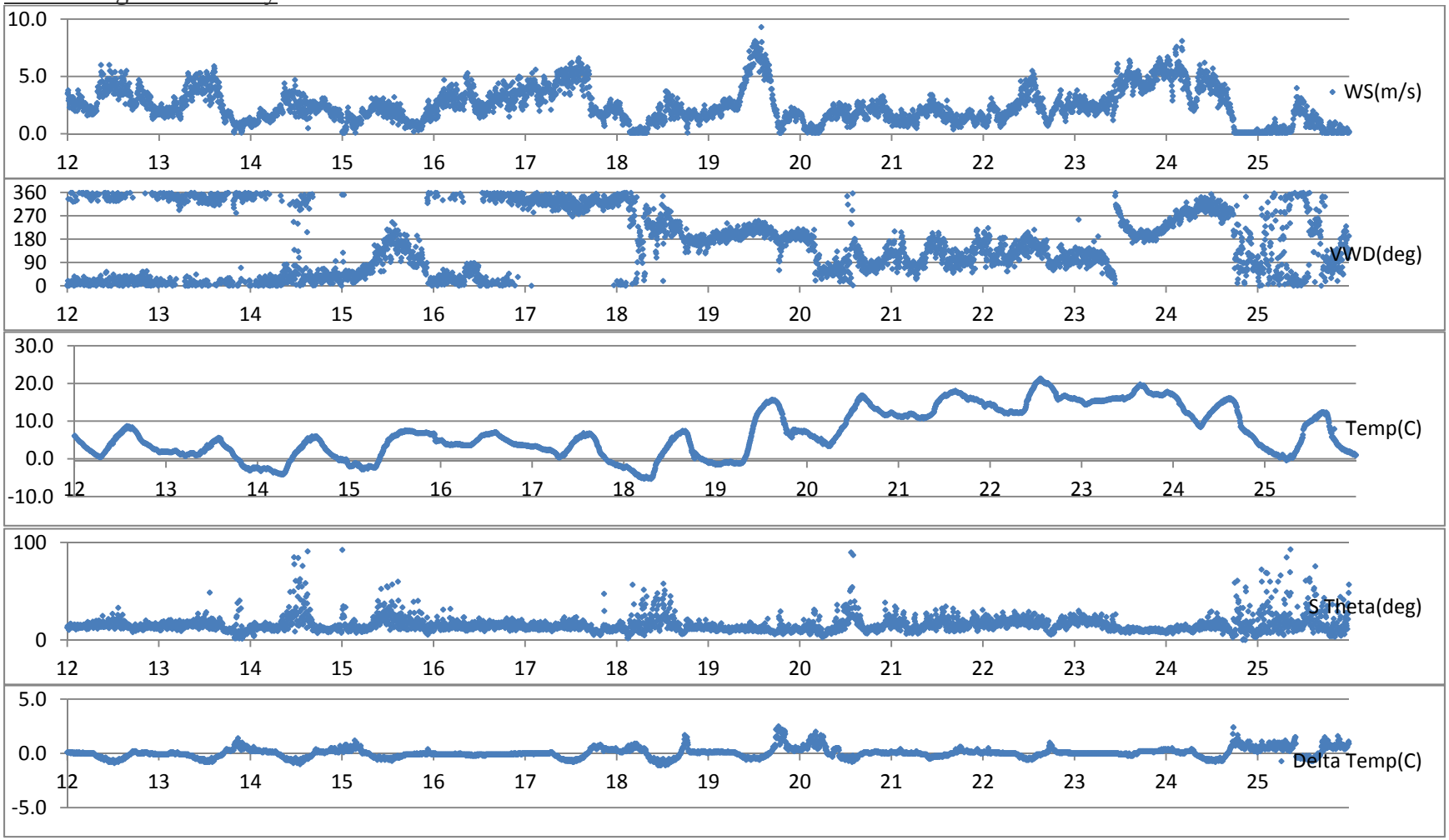

H2S 24 Hr Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
11/12
11/13
11/14
11/15
11/16
11/17
11/18
11/19
11/20
11/21
11/22
11/23
11/24
11/25

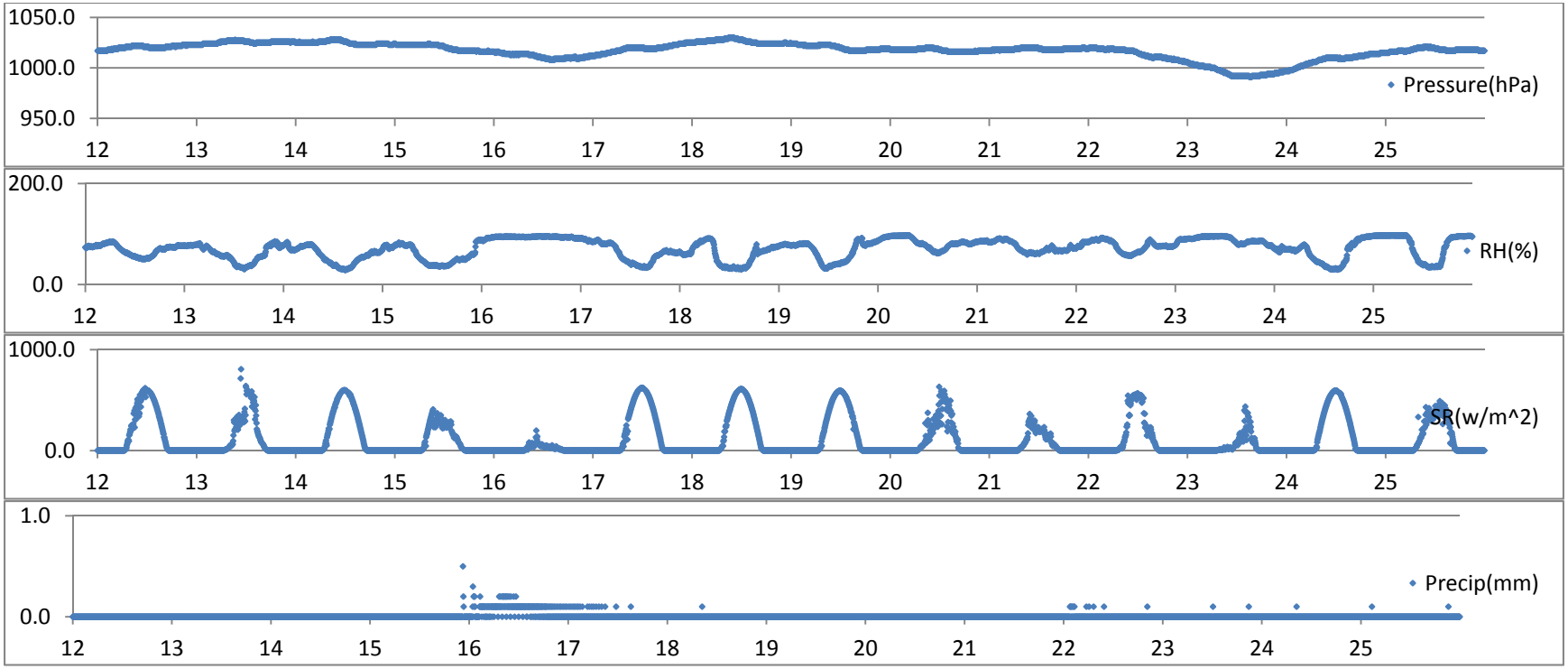
H_2S Assessment

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|	$\|d\|^2$				
11/12/2014 13:00	72.2	70.0	3.1	2.536	9.878	3.143	9.878				
11/13/2014 13:00	71.7	70.0	2.4	75th Percentile	5.898	2.429	5.898	n	S_d	S_{d2}	$\Sigma\|d\|$	"AB" (Eqn 4)
11/14/2014 13:00	71.8	70.0	2.6	3.143	6.612	2.571	6.612	12	0.540	3.008	34.143	2.845
11/15/2014 13:00	71.9	70.0	2.7		7.367	2.714	7.367	n-1	Σd	Σd^2	$\Sigma\|d\|^2$	"AS" (Eqn 5)
11/17/2014 13:00	71.7	70.0	2.4		5.898	2.429	5.898	11	34.143	100.347	100.347	0.540
11/18/2014 13:00	71.2	70.0	1.7		2.939	1.714	2.939					
11/20/2014 13:00	72.5	70.0	3.6		12.755	3.571	12.755			Bias (%) (Eqn 3)	Both Signs Positive	
11/21/2014 13:00	72.1	70.0	3.0		9.000	3.000	9.000			3.12	TRUE	
11/22/2014 13:00	72.2	70.0	3.1		9.878	3.143	9.878	CV (%) (Eqn 2)		Signed Bias (%)	Both Signs Negative	
11/23/2014 13:00	72.6	70.0	3.7		13.796	3.714	13.796	0.76		+3.12	FALSE	
11/24/2014 13:00	72.0	70.0	2.9		8.163	2.857	8.163					
11/25/2014 13:00	72.0	70.0	2.9		8.163	2.857	8.163	Upper Probability Limit		Lower Probability Limit		
								3.9		1.79		



Meteorological Summary




1050.0
1000.0
950.0
12 13 14 15 16 17 18 19 20 21 22 23 24 25
Pressure(hPa)
200.0
0.0
12 13 14 15 16 17 18 19 20 21 22 23 24 25
RH(%)
1000.0
0.0
12 13 14 15 16 17 18 19 20 21 22 23 24 25
SR(w/m^2)
1.0
0.0
12 13 14 15 16 17 18 19 20 21 22 23 24 25
Precip(mm)