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 July 27th through August 9th.

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 ± 10%, respectively. Precision and bias are calculated in accordance with 40 CFR Part 58 Appendix A, Section 4.1.

There was a single occurrence of data loss during this two week period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. On August 3rd, a manual zero adjustment was performed on account of zero-drift, this adjustment resulted in approximately 30 minutes of invalid H₂S data. Results for all 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
H2S 30 Min Rolling Avg
Georgia Pacific Crossett, AR
H2S 8 Hr Rolling Avg
Georgia Pacific Crossett, AR
### H₂S Assessment

| Date       | Meas Val (Y) | Audit Val (X) | d (Eqn. 1) | 25th Percentile | d²       | |d| | |d|² |
|------------|--------------|---------------|------------|-----------------|----------|--------|--------|--------|
| 7/27/2016  | 70.9         | 70.0          | 1.3        | 1.179           | 1.653    | 1.286  | 1.653  |
| 7/28/2016  | 71.5         | 70.0          | 2.1        | 4.592           | 2.143    | 4.592  |
| 7/29/2016  | 72.6         | 70.0          | 3.7        | 3.714           | 13.796   | 3.714  | 13.796 |
| 7/30/2016  | 72.4         | 70.0          | 3.4        | 11.755          | 3.429    | 11.755 |
| 7/31/2016  | 72.9         | 70.0          | 4.1        | 17.163          | 4.143    | 17.163 |
| 8/1/2016   | 72.7         | 70.0          | 3.9        | 14.878          | 3.857    | 14.878 |
| 8/2/2016   | 72.6         | 70.0          | 3.7        | 13.796          | 3.714    | 13.796 |
| 8/3/2016   | 72.9         | 70.0          | 4.1        | 17.163          | 4.143    | 17.163 |
| 8/4/2016   | 71.2         | 70.0          | 1.7        | 2.939           | 1.714    | 2.939  |
| 8/5/2016   | 71.4         | 70.0          | 2.0        | 4.000           | 2.000    | 4.000  |
| 8/6/2016   | 70.8         | 70.0          | 1.1        | 1.306           | 1.143    | 1.306  |
| 8/7/2016   | 70.4         | 70.0          | 0.6        | 0.327           | 0.571    | 0.327  |
| 8/8/2016   | 70.5         | 70.0          | 0.7        | 0.510           | 0.714    | 0.510  |
| 8/9/2016   | 70.8         | 70.0          | 1.1        | 1.306           | 1.143    | 1.306  |

#### Percent Differences

- **CV (%)** (Eqn 2)
- **Bias (%)** (Eqn 3)
- **Upper Probability Limit**
- **Lower Probability Limit**

### Calculations

| n | Σd | Σd² | Σ|d| | 25th Percentile |
|---|----|-----|----|---|-----------------|
| 14 | 1.359 | 6.744 | 33.714 |
| 13 | 33.714 | 105.184 | 105.184 |

#### Bias (%) (Eqn 3)
- Both Signs Positive
- Both Signs Negative

#### Upper Probability Limit
- 5.07

#### Lower Probability Limit
- -0.25

### Summary

- **Pollutant type:** H₂S
- **Location:** Crossett, AR

---

**Note:**

- The table includes calculations for percent differences, bias, and probability limits based on the given data. The formulas and calculations are detailed in the document.

---

**Graph:**

A line graph showing percent differences over time, with data points indicating fluctuations in values.