

# Air Monitoring Summary Tables

The table below summarizes monitoring data collected using a portable wireless remote monitoring system.

All times in Eastern Standard Time (EST).

**From: 05/02/24 12:00 am**

**To: 05/02/24**

**11:59 pm**

## Offsite Monitors

| Instrument                | Analyte          | ATSDR MRL<br>14-day Avg<br>Reached? | Concentration<br>Range Detected <sup>a</sup> | 24-hr Average <sup>a</sup> | 7-day<br>Average | ATSDR<br>14-day MRL |
|---------------------------|------------------|-------------------------------------|--|----------------------------|------------------|---------------------|
| <b>Catawba Headstart</b>  |                  |                                     |  |                            |                  |                     |
| Acrulog PPB               | H <sub>2</sub> S | No                                  | 0 – 0 ppb                                    | 0.00 ppb <sup>b</sup>      | 0.03 ppb         | 70 ppb              |
| <b>Treetops</b>           |                  |                                     |  |                            |                  |                     |
| Acrulog PPB               | H <sub>2</sub> S | No                                  | 0 – 0 ppb                                    | 0.00 ppb                   | 0.00 ppb         | 70 ppb              |
| <b>Liberty Hill</b>       |                  |                                     |  |                            |                  |                     |
| Acrulog PPB               | H <sub>2</sub> S | No                                  | 0 – 5 ppb                                    | 0.97 ppb                   | 0.15 ppb         | 70 ppb              |
| <b>Riverchase Estates</b> |                  |                                     |  |                            |                  |                     |
| Acrulog PPB               | H <sub>2</sub> S | No                                  | 0 – 5 ppb                                    | 0.61 ppb <sup>c</sup>      | 0.19 ppb         | 70 ppb              |
| <b>Millstone Creek</b>    |                  |                                     |  |                            |                  |                     |
| Acrulog PPB               | H <sub>2</sub> S | No                                  | 0 – 0 ppb                                    | 0.00 ppb                   | 0.00 ppb         | 70 ppb              |

<sup>b</sup> The 24-hour H<sub>2</sub>S average at Catawba Headstart is not represented by the full 24-hour sampling period; a total of 1 30-minute average is missing due to routine QC checks performed at this location.

<sup>c</sup> The 24-hour H<sub>2</sub>S average at Riverchase Estates is not represented by the full 24-hour sampling period; a total of 1 30-minute average is missing due to routine QC checks performed at this location.

## Onsite Fenceline Monitors

| Instrument       | Analyte          | 30-min AEGL<br>Reached? | Concentration<br>Range Detected <sup>a</sup> | 24-hr Average <sup>a</sup> | 7-day Average | 30-min AEGL |
|------------------|------------------|-------------------------|--|----------------------------|---------------|-------------|
| <b>Station 1</b> |                  |                         |  |                            |               |             |
| TAPI Analyzer    | H <sub>2</sub> S | No                      | 1 – 15 ppb                                   | 2.43 ppb                   | 1.31 ppb      | 600 ppb     |
| <b>Station 2</b> |                  |                         |  |                            |               |             |
| TAPI Analyzer    | H <sub>2</sub> S | No                      | 0 – 1 ppb                                    | 0.25 ppb                   | 0.42 ppb      | 600 ppb     |
| <b>Station 3</b> |                  |                         |  |                            |               |             |
| TAPI Analyzer    | H <sub>2</sub> S | No                      | 0 – 1 ppb                                    | 0.26 ppb <sup>d</sup>      | 0.47 ppb      | 600 ppb     |

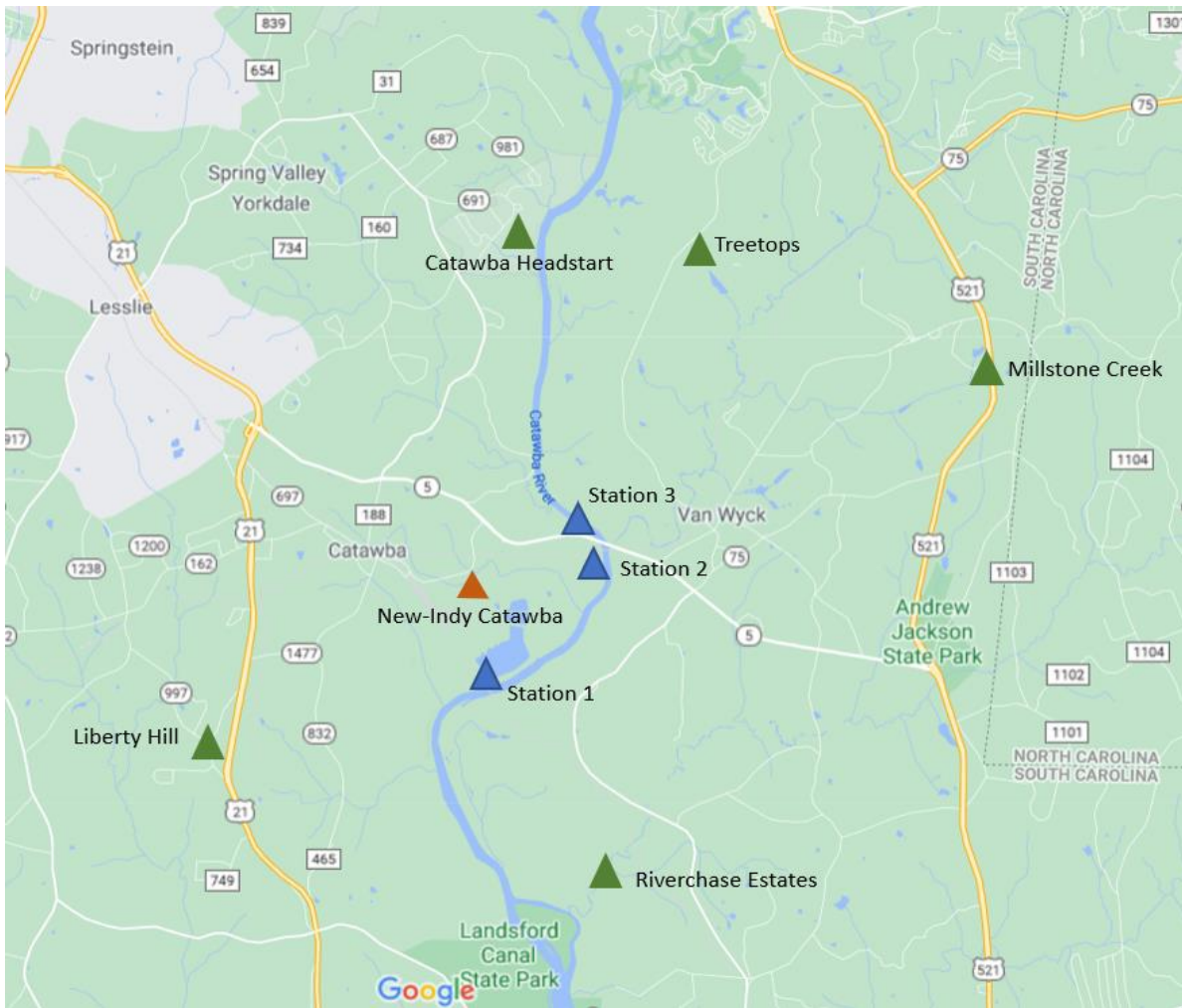
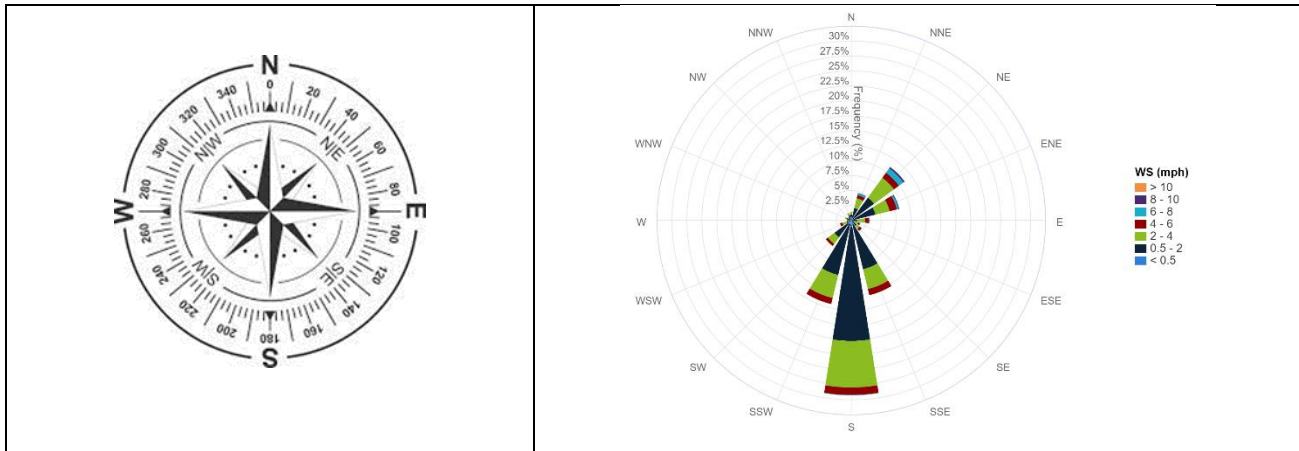
<sup>a</sup> Based on 30-minute averages.

<sup>d</sup> The 24-hour H<sub>2</sub>S average at this location from the start of the sampling period to the end of the sampling period is represented by the backup unit data.




### Notes:

|                  |   |
|------------------|---|
| ATSDR MRL        | Agency for Toxic Substances and Disease Registry Minimal Risk Level (MRL) |
| AEGL             | EPA Acute Exposure Guidelines Levels                                      |
| H <sub>2</sub> S | Hydrogen Sulfide  |
| TAPI             | Teledyne API H <sub>2</sub> S Analyzer                                    |
| hr               | Hour  |
| min              | Minute  |
| ppb              | Parts per billion   |
| MRL Limit        | Limit defined as a 14-day average value.                                  |

**Station 1 Wind Rose – Shows the direction the wind is coming from, the monitoring station being at the center of the rose.**



#### Legend

-  Offsite Fixed Monitoring Locations
-  Onsite Fixed Monitoring Locations
-  New-Indy Catawba

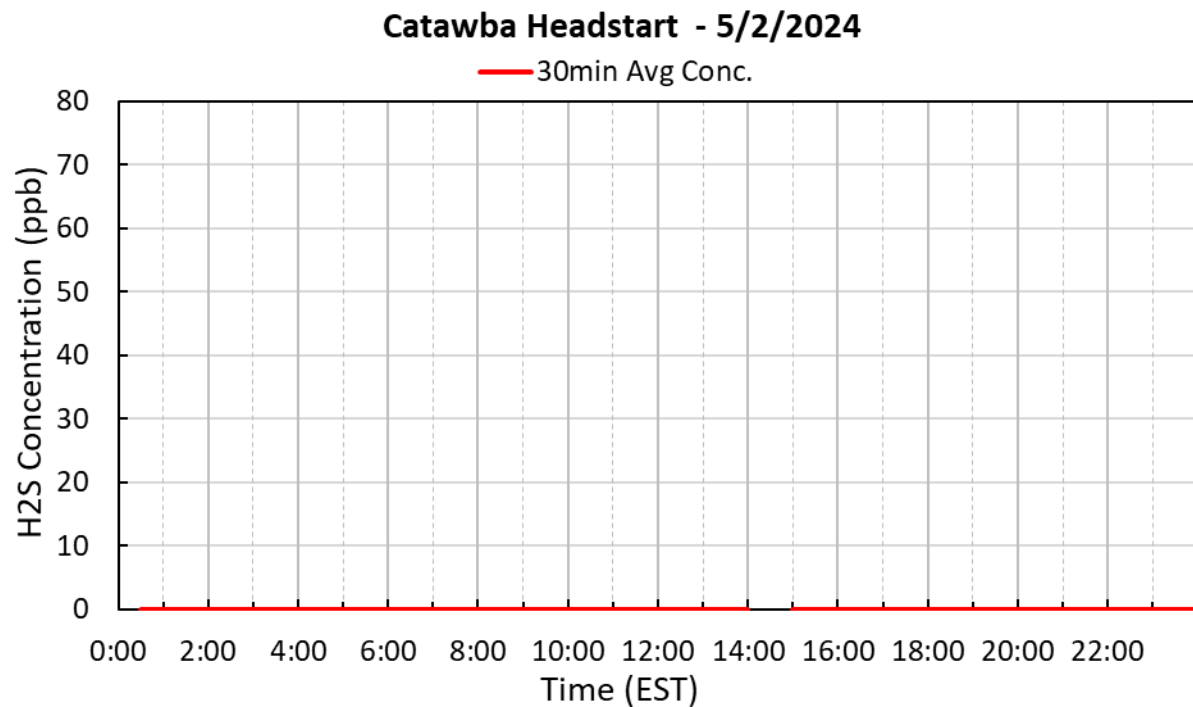
## Period H<sub>2</sub>S Monitoring Hydrogen Sulfide Offsite Monitors

Below are graphs for offsite locations where hydrogen sulfide (H<sub>2</sub>S) was detected during the current reporting period.

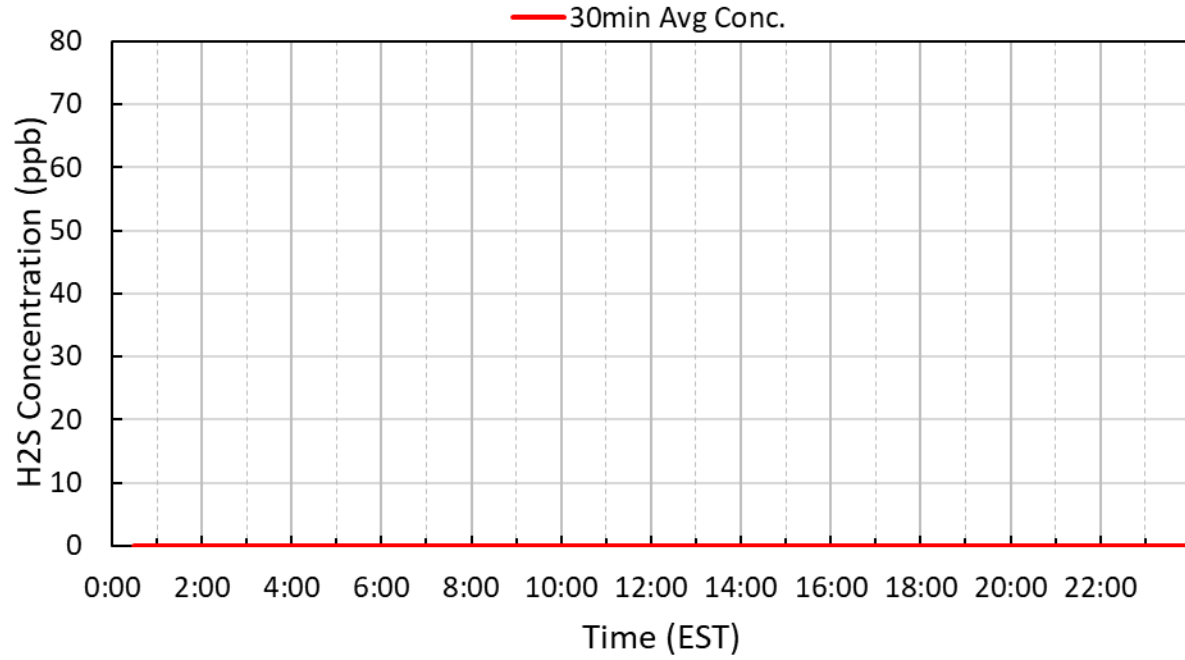
The five stand-alone H<sub>2</sub>S monitoring stations correlate with five previous EPA's Viper monitoring system which includes areas to the north-northeast and south-southwest of the New-Indy Catawba Mill.

Winds were coming from a variable direction throughout the day 1 to 5 mph.

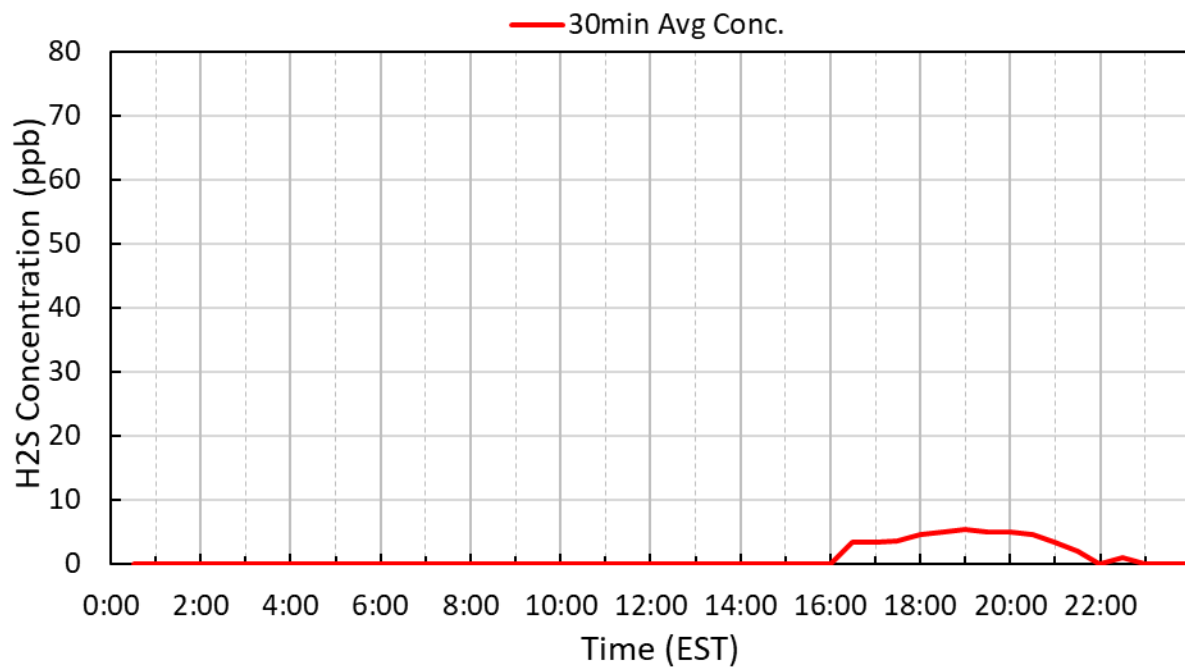
See wind rose diagram with aerial map figure for full wind data during this reporting period.



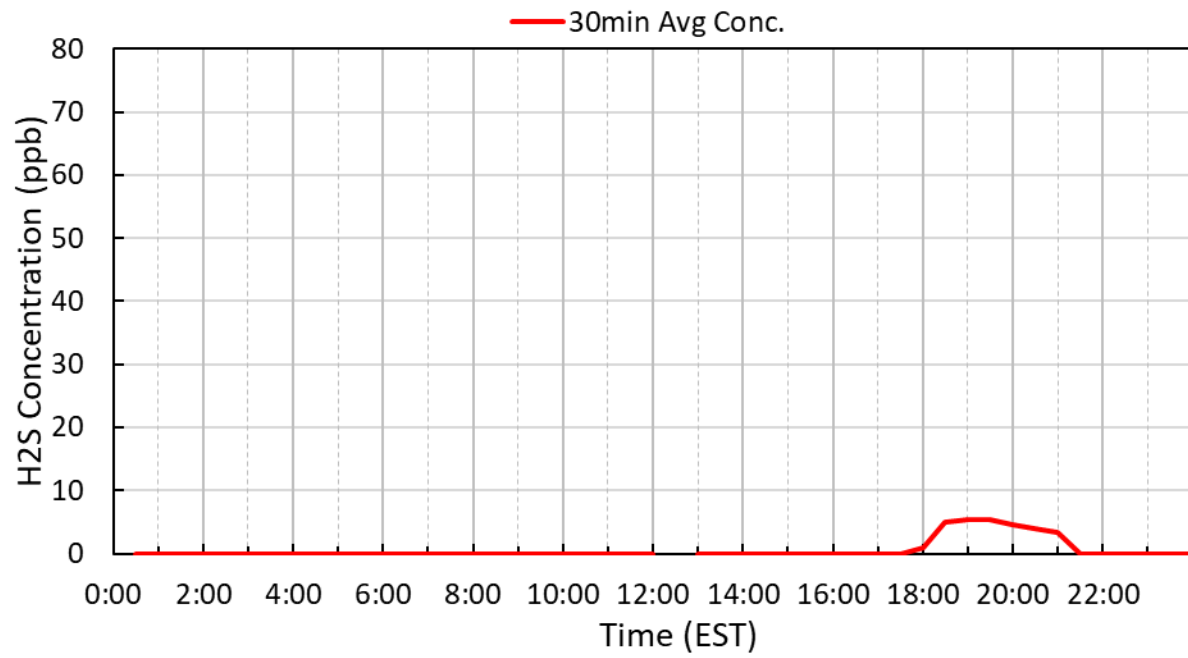
### Treetops - 5/2/2024



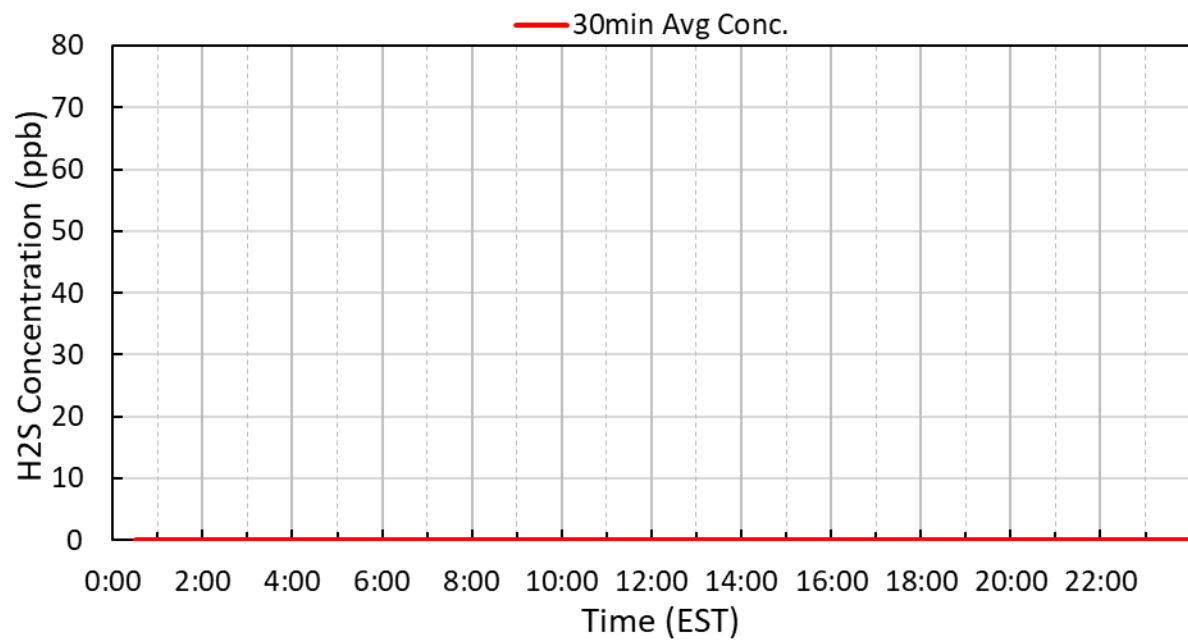
### Liberty Hill - 5/2/2024



### Riverchase - 5/2/2024



### Millstone Creek - 5/2/2024



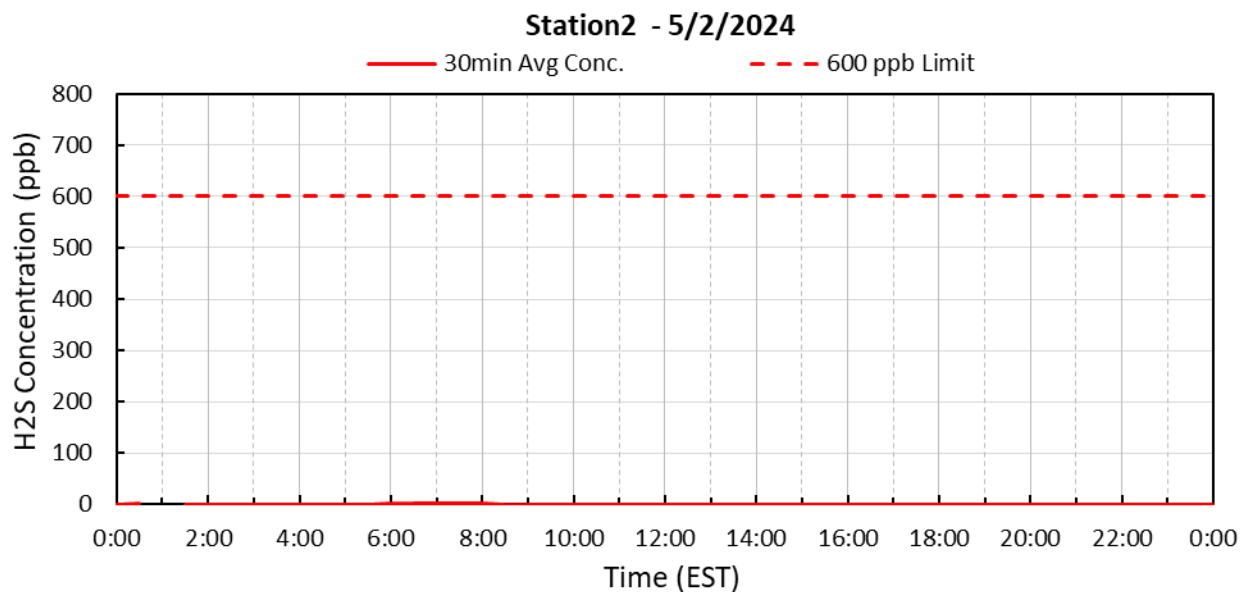
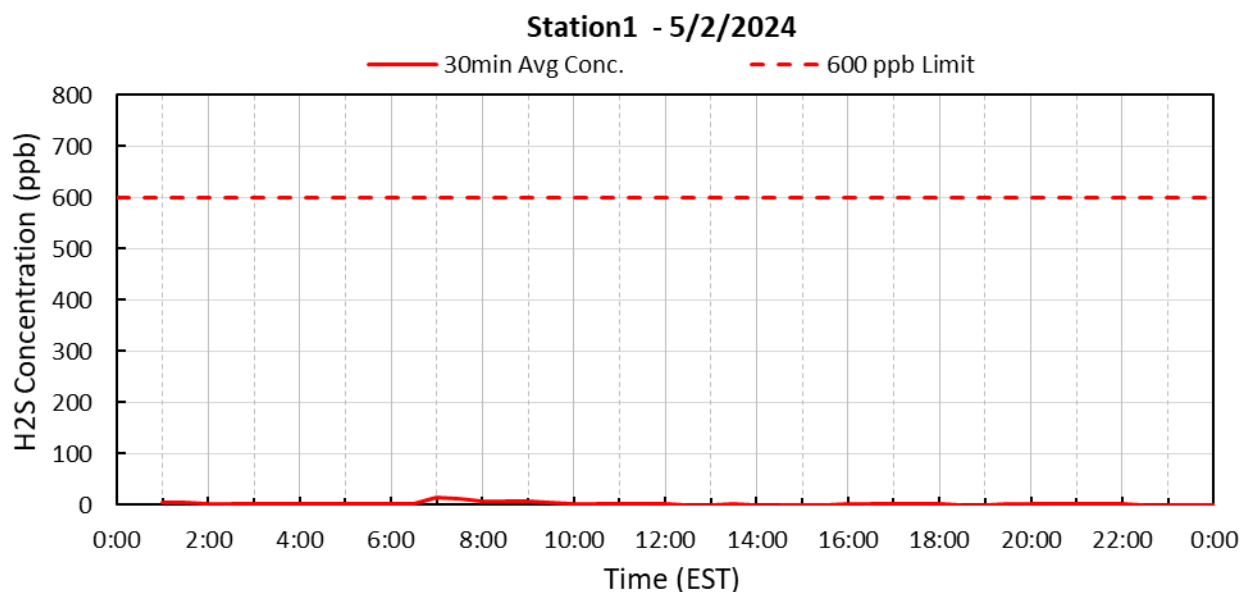
## Period H<sub>2</sub>S Monitoring Hydrogen Sulfide Onsite Monitors

Below are graphs for onsite locations during the current reporting period.

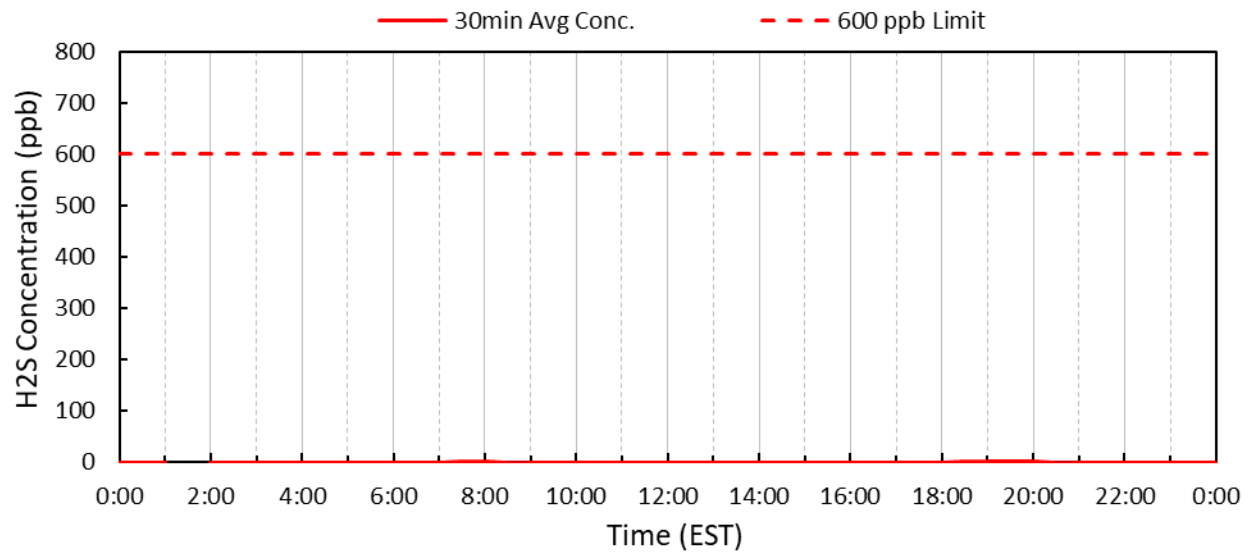
Depending on wind direction, the H<sub>2</sub>S measured at the onsite fence line locations may not exit the mill property at reported concentrations. Wind directions from offsite locations, blowing onto mill property, will disperse ambient concentrations to lower levels prior to exiting the plant site.

Winds were coming from a variable direction throughout the day 1 to 5 mph.

See wind rose diagram with aerial map figure for full wind data during this reporting period.



### Station3 - 5/2/2024



Submitted Fenceline H<sub>2</sub>S and Met 30-minute Data

| 30-Minute Avgs | Station 1           |              |              | Station 2           |              |              | Station 3           |              |              |
|----------------|---------------------|--------------|--------------|---------------------|--------------|--------------|---------------------|--------------|--------------|
|                | H2S                 | Met          |              | H2S                 | Met          |              | H2S                 | Met          |              |
|                | 30min Avg H2S Conc. | 30min Avg WS | 30min Avg WD | 30min Avg H2S Conc. | 30min Avg WS | 30min Avg WD | 30min Avg H2S Conc. | 30min Avg WS | 30min Avg WD |
| Date / Time    | ppb                 | mph          | degrees      | ppb                 | mph          | degrees      | ppb                 | mph          | degrees      |
| 5/2/2024 0:30  | AX                  | 0.8          | 175          | 0.4                 | 0.3          | 24           | 0.2                 | 0.2          | 4            |
| 5/2/2024 1:00  | 5.0                 | 0.7          | 65           | AX                  | 0.2          | 24           | 0.2                 | 0.2          | 356          |
| 5/2/2024 1:30  | 4.1                 | 0.6          | 204          | 0.2                 | 0.2          | 41           | AX                  | 0.2          | 359          |
| 5/2/2024 2:00  | 2.4                 | 1.2          | 189          | 0.2                 | 0.4          | 29           | 0.2                 | 0.2          | 347          |
| 5/2/2024 2:30  | 2.4                 | 1.2          | 185          | 0.2                 | 0.4          | 13           | 0.2                 | 0.2          | 2            |
| 5/2/2024 3:00  | 2.5                 | 1.0          | 172          | 0.2                 | 0.2          | 25           | 0.2                 | 0.2          | 335          |
| 5/2/2024 3:30  | 2.2                 | 1.2          | 193          | 0.2                 | 0.2          | 21           | 0.2                 | 0.2          | 327          |
| 5/2/2024 4:00  | 2.3                 | 1.8          | 187          | 0.2                 | 0.2          | 30           | 0.2                 | 0.2          | 303          |
| 5/2/2024 4:30  | 2.1                 | 1.1          | 214          | 0.2                 | 0.4          | 28           | 0.2                 | 0.3          | 328          |
| 5/2/2024 5:00  | 2.2                 | 1.8          | 190          | 0.2                 | 0.7          | 47           | 0.2                 | 0.3          | 315          |
| 5/2/2024 5:30  | 2.4                 | 1.2          | 178          | 0.2                 | 0.3          | 36           | 0.2                 | 0.3          | 68           |
| 5/2/2024 6:00  | 2.6                 | 1.2          | 196          | 0.5                 | 0.2          | 38           | 0.2                 | 0.2          | 20           |
| 5/2/2024 6:30  | 2.6                 | 0.5          | 180          | 0.7                 | 0.6          | 31           | 0.2                 | 0.9          | 18           |
| 5/2/2024 7:00  | 14.9                | 1.2          | 63           | 0.5                 | 0.4          | 25           | 0.2                 | 1.5          | 10           |
| 5/2/2024 7:30  | 13.2                | 2.0          | 58           | 1.0                 | 0.7          | 352          | 0.6                 | 1.1          | 14           |
| 5/2/2024 8:00  | 7.9                 | 1.0          | 54           | 0.6                 | 0.4          | 314          | 0.4                 | 0.5          | 84           |
| 5/2/2024 8:30  | 7.0                 | 1.6          | 40           | 0.2                 | 0.8          | 359          | 0.2                 | 1.0          | 29           |
| 5/2/2024 9:00  | 8.0                 | 2.8          | 49           | 0.2                 | 1.7          | 344          | 0.2                 | 1.2          | 33           |
| 5/2/2024 9:30  | 3.7                 | 1.6          | 58           | 0.2                 | 1.2          | 246          | 0.2                 | 1.3          | 25           |
| 5/2/2024 10:00 | 2.2                 | 1.0          | 54           | 0.2                 | 0.8          | 131          | 0.2                 | 1.1          | 59           |
| 5/2/2024 10:30 | 1.4                 | 1.6          | 340          | 0.2                 | 1.4          | 241          | 0.2                 | 1.3          | 71           |
| 5/2/2024 11:00 | 0.9                 | 2.3          | 34           | 0.2                 | 1.7          | 120          | 0.2                 | 1.4          | 28           |
| 5/2/2024 11:30 | 1.0                 | 3.4          | 78           | 0.2                 | 1.9          | 25           | 0.2                 | 1.7          | 66           |
| 5/2/2024 12:00 | 0.9                 | 4.6          | 38           | 0.2                 | 2.2          | 137          | 0.2                 | 2.5          | 61           |
| 5/2/2024 12:30 | 0.6                 | 4.0          | 48           | 0.2                 | 1.7          | 89           | 0.2                 | 2.7          | 69           |
| 5/2/2024 13:00 | 0.7                 | 3.9          | 74           | 0.2                 | 1.6          | 128          | 0.2                 | 3.0          | 76           |
| 5/2/2024 13:30 | 1.1                 | 4.3          | 63           | 0.2                 | 1.4          | 114          | 0.2                 | 2.3          | 134          |
| 5/2/2024 14:00 | 0.8                 | 3.0          | 86           | 0.2                 | 1.7          | 73           | 0.2                 | 2.2          | 131          |
| 5/2/2024 14:30 | 0.6                 | 4.4          | 115          | 0.2                 | 1.8          | 173          | 0.2                 | 1.6          | 157          |
| 5/2/2024 15:00 | 0.7                 | 3.7          | 92           | 0.2                 | 1.9          | 170          | 0.2                 | 1.9          | 152          |
| 5/2/2024 15:30 | 0.8                 | 2.8          | 162          | 0.2                 | 1.4          | 128          | 0.2                 | 2.2          | 94           |
| 5/2/2024 16:00 | 0.9                 | 3.5          | 216          | 0.2                 | 0.8          | 123          | 0.2                 | 1.6          | 96           |
| 5/2/2024 16:30 | 1.1                 | 3.4          | 210          | 0.2                 | 0.8          | 55           | 0.2                 | 1.9          | 65           |
| 5/2/2024 17:00 | 1.2                 | 3.8          | 201          | 0.2                 | 1.3          | 142          | 0.2                 | 2.0          | 75           |
| 5/2/2024 17:30 | 1.0                 | 3.4          | 186          | 0.2                 | 0.9          | 162          | 0.2                 | 1.3          | 153          |
| 5/2/2024 18:00 | 0.9                 | 3.1          | 183          | 0.2                 | 0.8          | 188          | 0.2                 | 0.5          | 238          |
| 5/2/2024 18:30 | 0.7                 | 2.5          | 180          | 0.2                 | 0.6          | 96           | 0.5                 | 0.4          | 273          |
| 5/2/2024 19:00 | 0.5                 | 2.0          | 177          | 0.2                 | 0.5          | 76           | 1.2                 | 0.2          | 357          |
| 5/2/2024 19:30 | 0.9                 | 1.9          | 174          | 0.2                 | 0.3          | 83           | 0.9                 | 0.2          | 344          |
| 5/2/2024 20:00 | 1.1                 | 1.4          | 170          | 0.2                 | 0.4          | 76           | 0.4                 | 0.2          | 355          |
| 5/2/2024 20:30 | 1.1                 | 1.6          | 171          | 0.2                 | 0.4          | 83           | 0.2                 | 0.2          | 324          |
| 5/2/2024 21:00 | 1.1                 | 1.6          | 177          | 0.2                 | 0.3          | 76           | 0.2                 | 0.2          | 333          |
| 5/2/2024 21:30 | 0.9                 | 2.0          | 187          | 0.2                 | 0.3          | 81           | 0.2                 | 0.2          | 295          |
| 5/2/2024 22:00 | 1.0                 | 1.7          | 177          | 0.2                 | 0.3          | 61           | 0.2                 | 0.2          | 7            |
| 5/2/2024 22:30 | 0.8                 | 2.0          | 190          | 0.2                 | 0.2          | 60           | 0.2                 | 0.2          | 300          |
| 5/2/2024 23:00 | 0.6                 | 1.0          | 205          | 0.2                 | 0.3          | 75           | 0.2                 | 0.3          | 79           |
| 5/2/2024 23:30 | 0.6                 | 1.5          | 198          | 0.2                 | 0.4          | 60           | 0.2                 | 0.3          | 109          |
| 5/3/2024 0:00  | 0.6                 | 1.1          | 185          | 0.2                 | 0.5          | 67           | 0.2                 | 0.3          | 165          |



| AQS Null Data Codes |                                     |
|---------------------|-------------------------------------|
| Qualifier Code      | Item Description                    |
| AB                  | TECHNICIAN UNAVAILABLE              |
| AC                  | CONSTRUCTION/REPAIRS IN AREA        |
| AD                  | SHELTER STORM DAMAGE                |
| AE                  | SHELTER TEMPERATURE OUTSIDE LIMITS  |
| AI                  | INSUFFICIENT DATA (CAN'T CALCULATE) |
| AM                  | MISCELLANEOUS VOID                  |
| AN                  | MACHINE MALFUNCTION                 |
| AO                  | BAD WEATHER                         |
| AP                  | VANDALISM                           |
| AS                  | POOR QUALITY ASSURANCE RESULTS      |
| AT                  | CALIBRATION                         |
| AU                  | MONITORING WAIVED                   |
| AV                  | POWER FAILURE (POWR)                |
| AW                  | WILDLIFE DAMAGE                     |
| AX                  | PRECISION CHECK (PREC)              |
| AY                  | Q C CONTROL POINTS (ZERO/SPAN)      |
| AZ                  | Q C AUDIT (AUDT)                    |
| BA                  | MAINTENANCE/ROUTINE REPAIRS         |
| BB                  | UNABLE TO REACH SITE                |
| BC                  | MULTI-POINT CALIBRATION             |
| BD                  | AUTO CALIBRATION                    |
| BE                  | BUILDING/SITE REPAIR                |
| BF                  | PRECISION/ZERO/SPAN                 |
| BJ                  | OPERATOR ERROR                      |
| BK                  | SITE COMPUTER/DATA LOGGER DOWN      |
| EC                  | EXCEED CRITICAL CRITERIA            |