

# 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:** 12/30/23 12:00 am **To:** 12/30/23 11:59 pm

## Offsite Monitors

Instrument	Analyte	ATSDR MRL 14-day Avg Reached?	Concentration Range Detected <sup>a</sup>	24-hr Average <sup>a</sup>	7-day Average	ATSDR 14-day MRL
<b>Catawba Headstart</b>						
Acrulog PPB	H <sub>2</sub> S	No	0 – 0 ppb	0.00 ppb	0.00 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 – 0 ppb	0.00 ppb	0.00 ppb	70 ppb
<b>Riverchase Estates</b>						
Acrulog PPB	H <sub>2</sub> S	No	0 – 0 ppb	0.00 ppb	0.01 ppb	70 ppb
<b>Millstone Creek</b>						
Acrulog PPB	H <sub>2</sub> S	No	0 – 2 ppb	0.04 ppb	0.01 ppb	70 ppb

## Onsite Fenceline Monitors

Instrument	Analyte	30-min AEGL Reached?	Concentration 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	0 – 2 ppb	0.43 ppb	1.19 ppb	600 ppb
<b>Station 2</b>						
TAPI Analyzer	H <sub>2</sub> S	No	1 – 5 ppb	1.96 ppb	1.25 ppb	600 ppb
<b>Station 3</b>						
TAPI Analyzer	H <sub>2</sub> S	No	0 – 6 ppb	1.10 ppb <sup>b</sup>	1.27 ppb	600 ppb

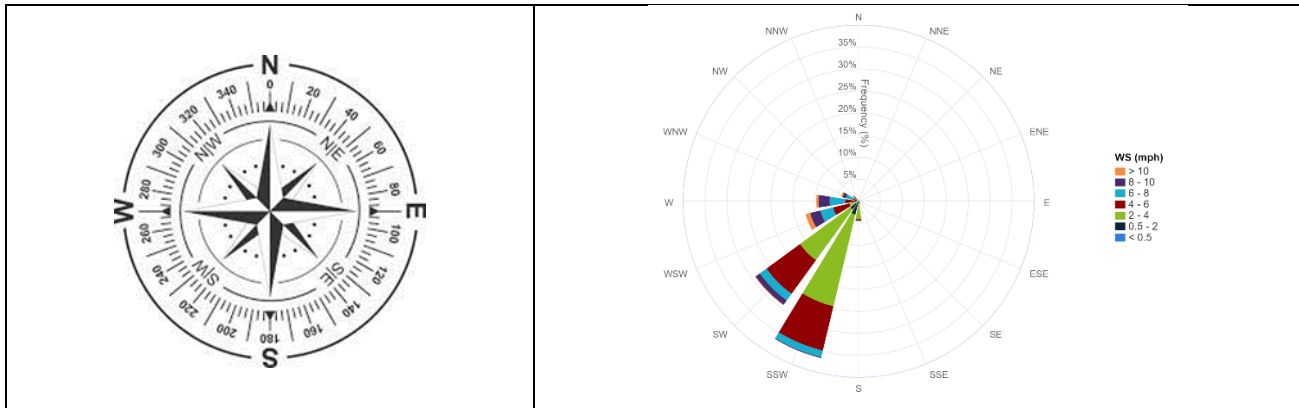
<sup>a</sup> Based on 30-minute averages.

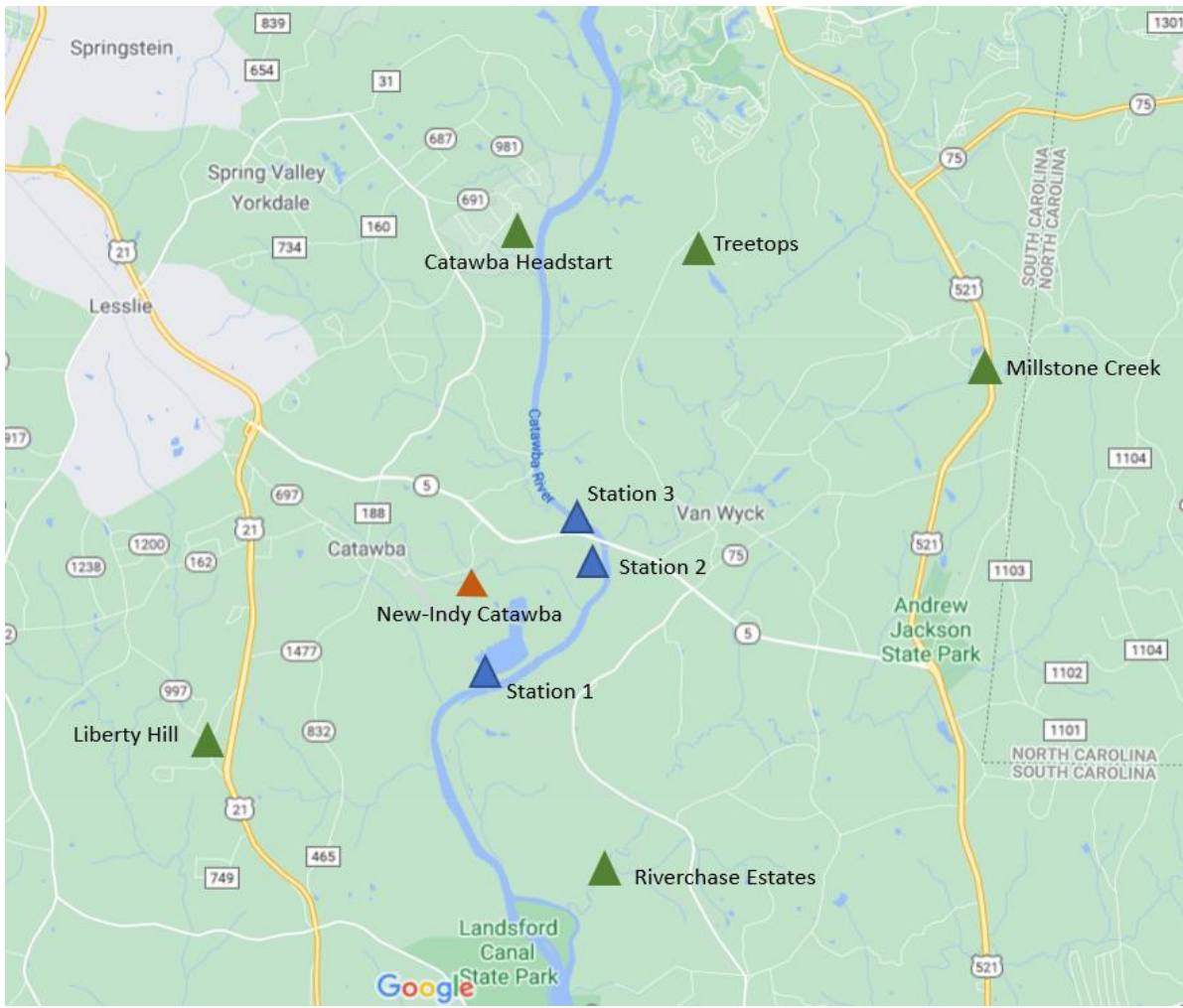
<sup>b</sup> The 24-hour H<sub>2</sub>S average at Station 3 is calculated using the data from the back-up unit due to the removal of the primary unit for maintenance.

### 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

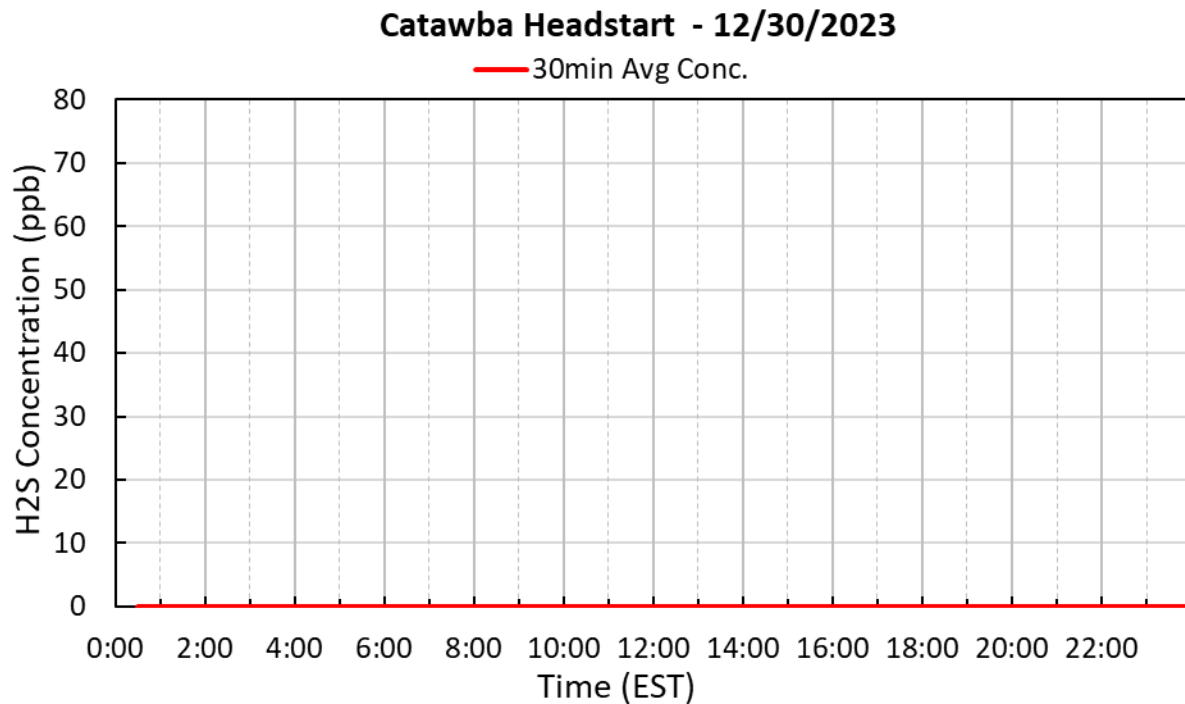
## Period H<sub>2</sub>S Monitoring Hydrogen Sulfide Offsite Monitors

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

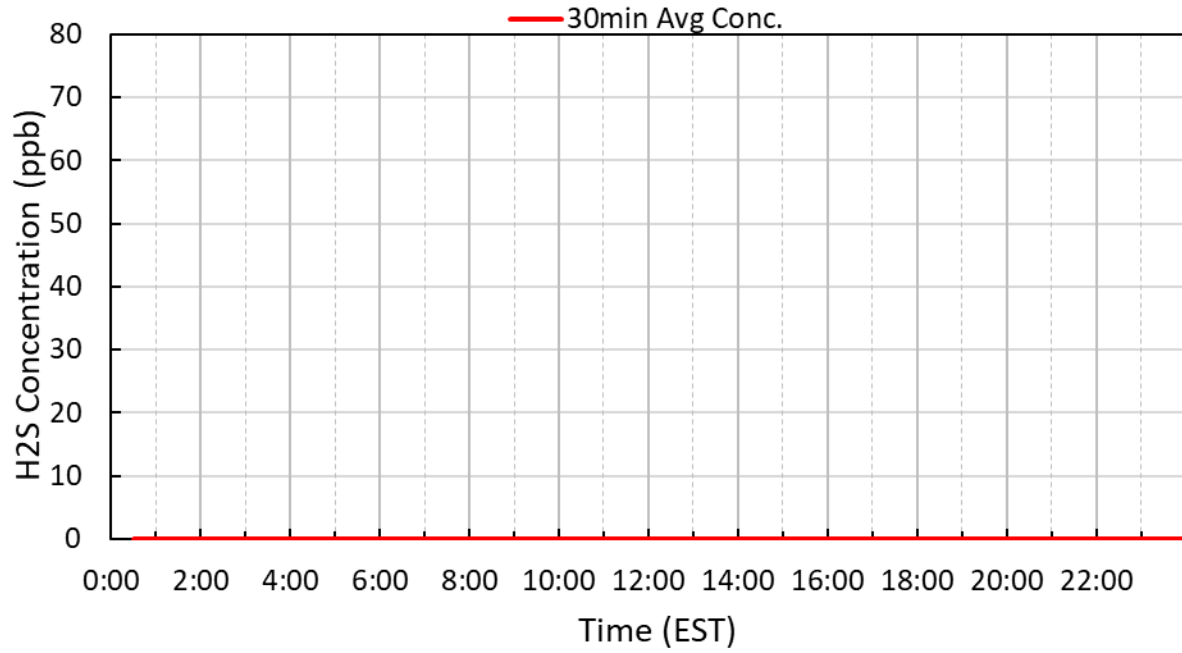
The five stand-alone H<sub>2</sub>S monitoring stations correlate with five previous EPA's Viper monitoring system which includes areas to the north-northeast and south-southwest of the New-Indy Catawba Mill.

Winds were predominantly coming from the west, west-southwest, southwest, and south-southwest direction throughout the day at 2 to 9 mph.

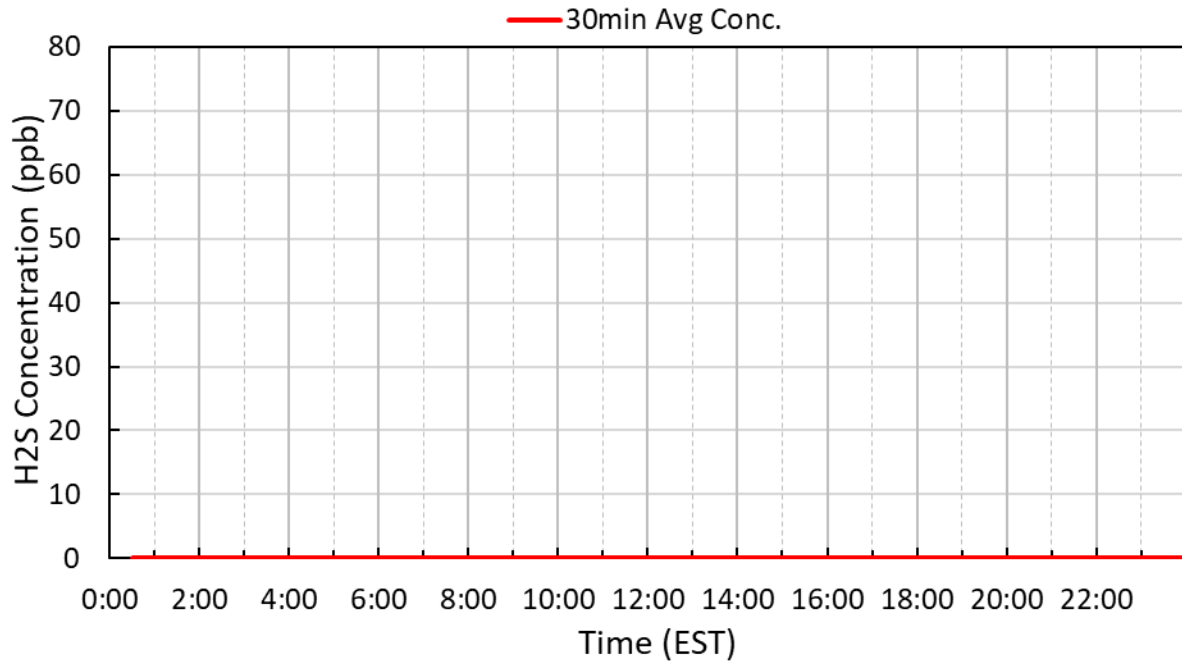
See wind rose diagram with aerial map figure for full wind data during this reporting period.



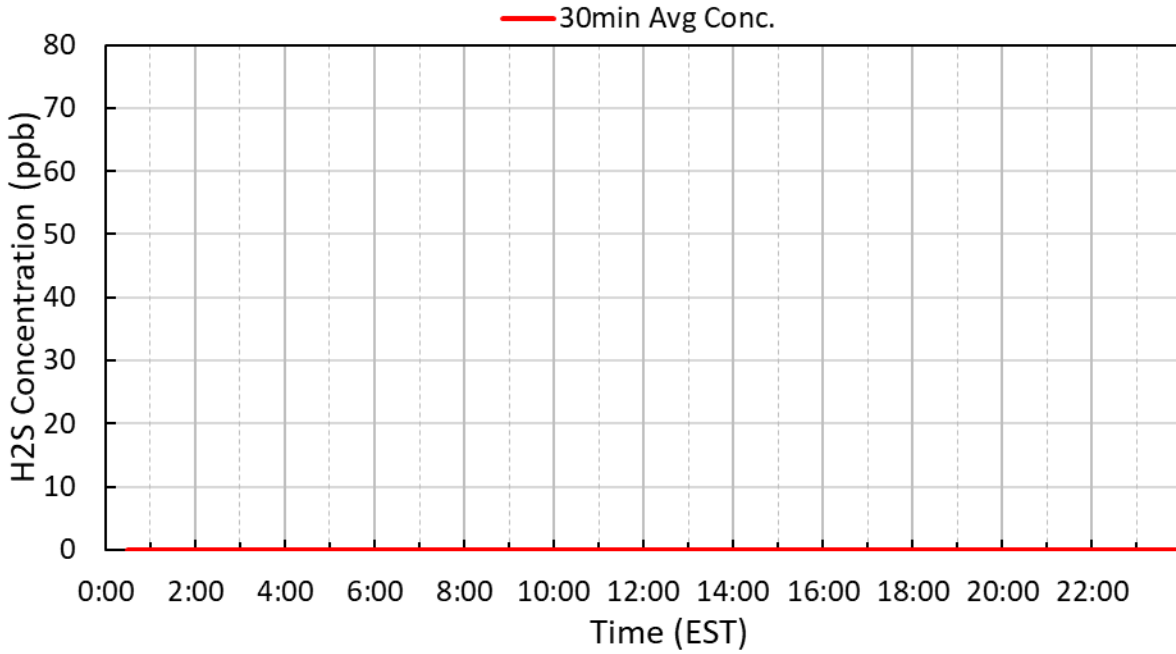
### Treetops - 12/30/2023



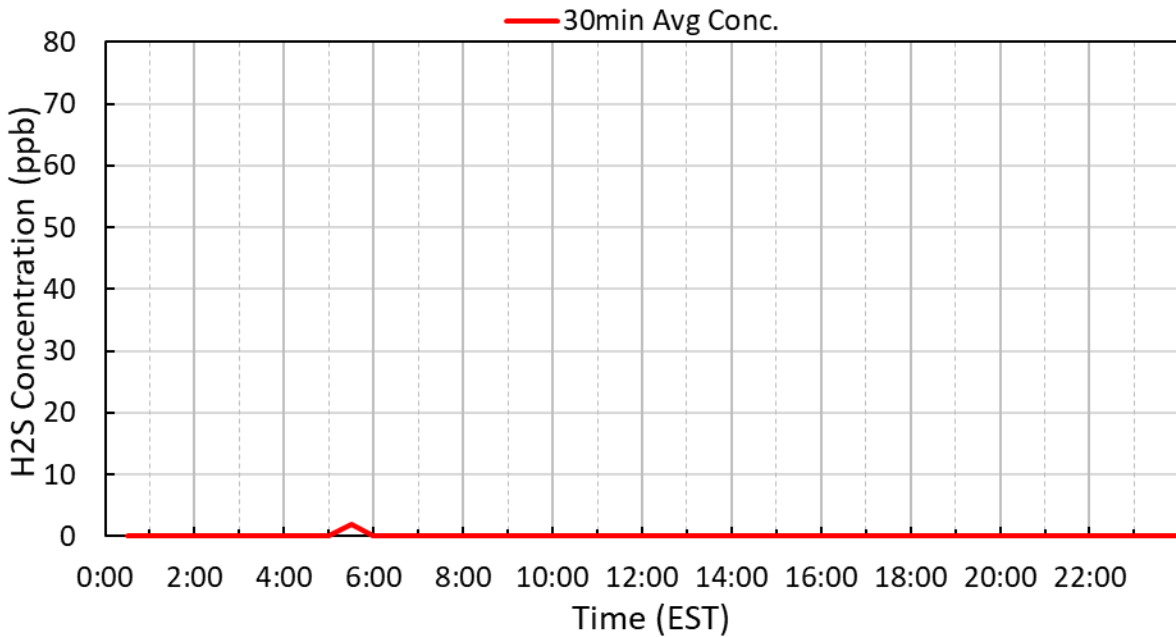
### Liberty Hill - 12/30/2023



### Riverchase - 12/30/2023



### Millstone Creek - 12/30/2023



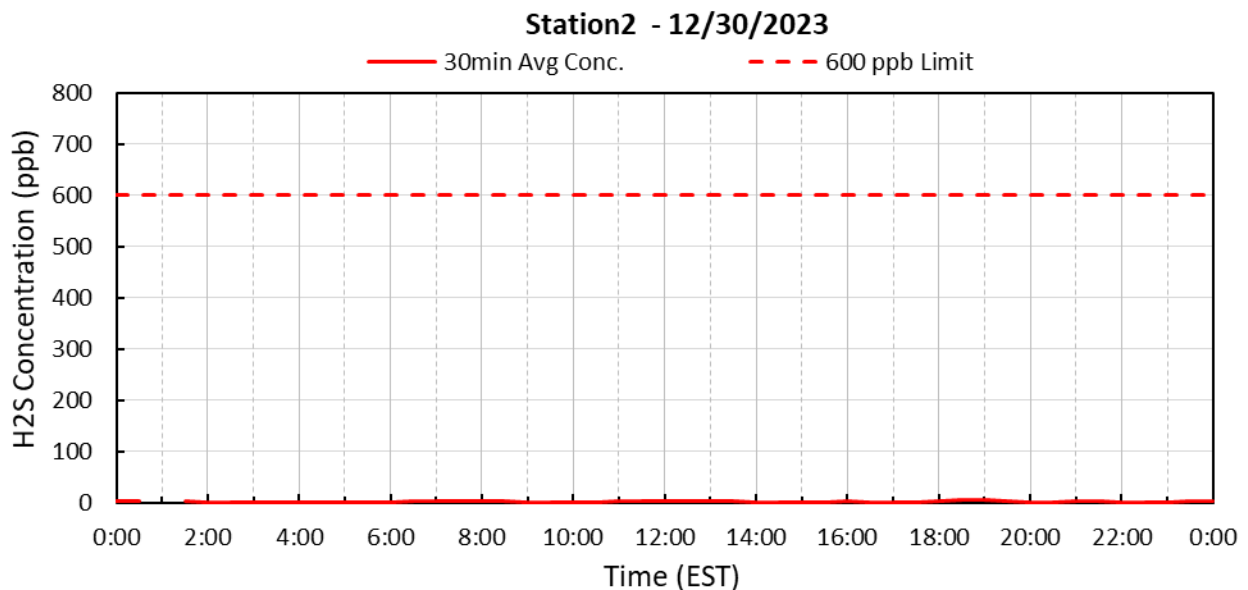
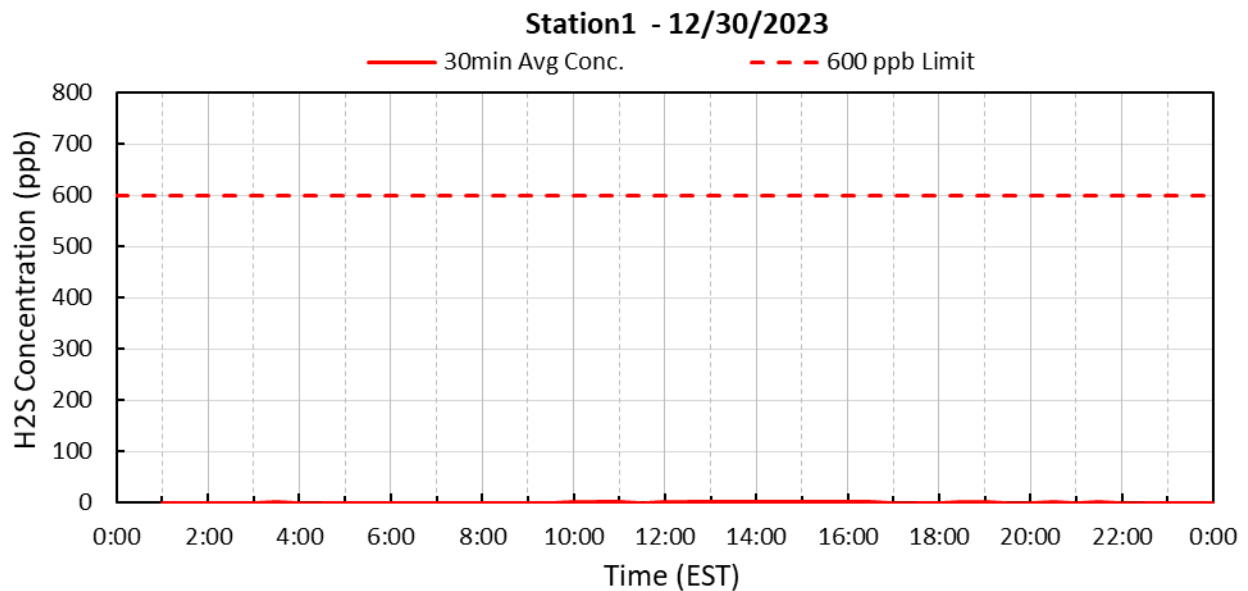
## Period H<sub>2</sub>S Monitoring Hydrogen Sulfide Onsite Monitors

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

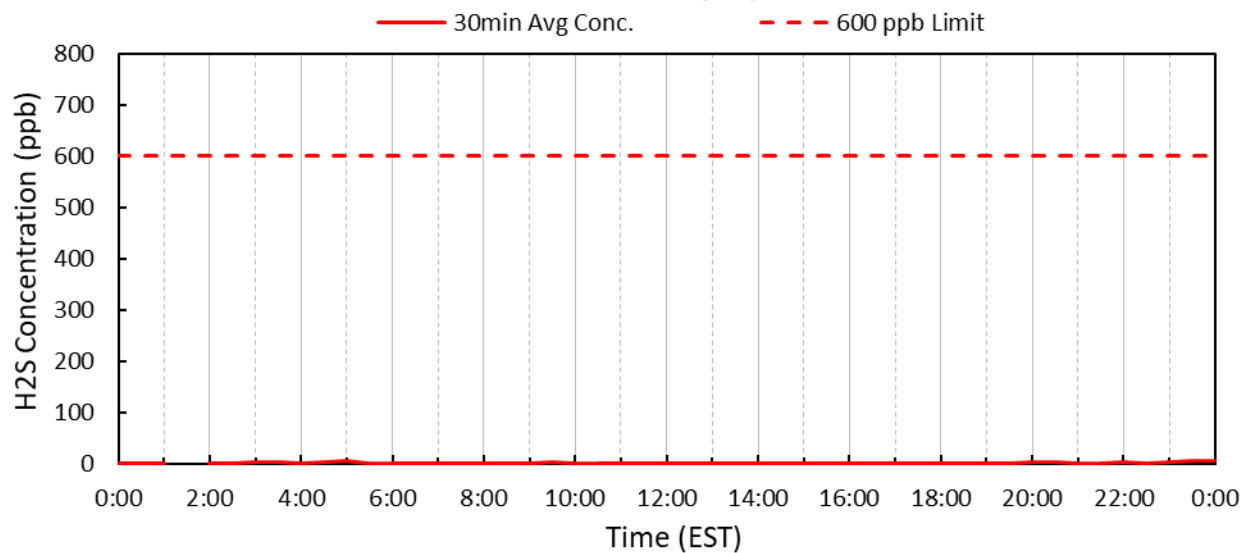
Depending on wind direction, the H<sub>2</sub>S measured at the onsite fence line locations may not exit the mill property at reported concentrations. Wind directions from offsite locations, blowing onto mill property, will disperse ambient concentrations to lower levels prior to exiting the plant site.

Winds were predominantly coming from the west, west-southwest, southwest, and south-southwest direction throughout the day at 2 to 9 mph.

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



### Station3 - 12/30/2023



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
12/30/2023 0:30	AX	3.8	225	2.6	3.5	211	0.2	2.3	252
12/30/2023 1:00	0.2	3.2	212	AX	3.8	209	0.2	2.4	251
12/30/2023 1:30	0.2	3.3	216	2.4	2.2	226	AX	2.5	244
12/30/2023 2:00	0.2	3.0	197	1.2	3.6	206	0.2	3.0	243
12/30/2023 2:30	0.2	3.2	207	1.0	3.9	207	0.2	3.2	243
12/30/2023 3:00	0.2	5.0	199	0.8	3.8	214	2.6	3.1	218
12/30/2023 3:30	1.8	3.9	225	1.6	4.1	222	2.7	2.9	231
12/30/2023 4:00	0.2	5.0	206	1.8	3.5	217	1.3	3.4	234
12/30/2023 4:30	0.2	4.8	206	0.9	4.2	209	2.9	2.8	219
12/30/2023 5:00	0.2	4.7	210	1.2	3.8	219	4.6	2.3	229
12/30/2023 5:30	0.2	3.9	201	1.6	3.8	207	0.2	2.9	242
12/30/2023 6:00	0.2	2.9	209	1.4	3.3	208	0.2	2.5	252
12/30/2023 6:30	0.2	3.2	203	2.0	4.1	212	0.2	2.6	244
12/30/2023 7:00	0.2	3.2	208	2.2	4.2	219	0.2	3.0	242
12/30/2023 7:30	0.2	3.7	207	2.4	4.2	222	0.2	3.5	246
12/30/2023 8:00	0.2	3.6	213	2.1	4.1	223	0.2	3.4	251
12/30/2023 8:30	0.2	3.7	211	2.2	4.2	220	0.2	3.4	247
12/30/2023 9:00	0.2	5.1	211	1.8	5.6	227	0.2	3.7	245
12/30/2023 9:30	0.2	5.2	212	1.4	4.7	226	2.5	3.3	232
12/30/2023 10:00	0.9	6.1	258	1.7	5.2	265	0.2	1.3	282
12/30/2023 10:30	0.8	8.5	266	1.8	5.4	272	0.2	1.7	284
12/30/2023 11:00	0.5	7.3	261	2.3	7.9	252	0.2	3.4	259
12/30/2023 11:30	0.2	6.8	243	3.7	8.4	260	0.2	3.1	262
12/30/2023 12:00	0.4	6.9	256	1.9	8.5	263	0.2	3.4	260
12/30/2023 12:30	0.4	7.5	240	2.2	7.8	253	0.2	2.9	254
12/30/2023 13:00	0.8	8.1	251	1.9	8.2	254	0.2	3.9	247
12/30/2023 13:30	1.2	6.9	255	1.9	8.6	243	0.2	2.9	264
12/30/2023 14:00	0.6	7.7	261	1.3	6.5	271	0.2	3.0	259
12/30/2023 14:30	1.0	7.2	269	1.3	8.7	277	0.2	2.5	274
12/30/2023 15:00	1.7	6.4	295	1.6	7.9	252	0.2	2.6	261
12/30/2023 15:30	1.1	6.4	279	1.6	6.7	258	0.2	3.0	234
12/30/2023 16:00	0.7	6.9	258	2.1	7.7	259	0.2	2.8	262
12/30/2023 16:30	0.9	4.5	261	1.6	5.6	272	0.2	1.7	257
12/30/2023 17:00	0.2	3.2	254	0.7	4.4	284	0.2	0.7	281
12/30/2023 17:30	0.2	3.8	234	1.6	4.0	269	0.2	0.9	266
12/30/2023 18:00	0.2	2.8	219	4.2	3.5	260	0.2	1.1	266
12/30/2023 18:30	0.4	2.3	220	5.4	2.2	238	0.2	1.1	262
12/30/2023 19:00	0.4	1.5	213	4.6	1.6	205	0.2	0.7	284
12/30/2023 19:30	0.2	2.4	215	2.5	2.3	201	0.2	0.7	95
12/30/2023 20:00	0.2	1.7	198	0.9	1.1	229	2.8	0.4	197
12/30/2023 20:30	0.4	3.5	220	0.7	0.9	200	4.1	0.8	194
12/30/2023 21:00	0.2	4.7	224	2.8	2.7	205	1.7	1.9	213
12/30/2023 21:30	0.4	3.4	206	2.3	2.5	198	1.9	1.9	222
12/30/2023 22:00	0.2	3.0	200	0.7	2.2	202	3.1	1.7	209
12/30/2023 22:30	0.2	2.8	188	0.6	1.7	198	1.7	1.5	194
12/30/2023 23:00	0.2	3.7	203	0.9	3.1	212	2.9	1.9	218
12/30/2023 23:30	0.2	3.3	211	3.7	2.1	227	5.8	1.7	215
12/31/2023 0:00	0.2	2.8	213	2.8	1.6	216	4.8	1.4	183



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