

# 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:** 12/21/23 12:00 am

**To:** 12/21/23 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 <sup>b</sup>	0.00 ppb	70 ppb
<b>Treetops</b>						
Acrulog PPB	H <sub>2</sub> S	No	0 – 0 ppb	0.00 ppb <sup>c</sup>	0.00 ppb	70 ppb
<b>Liberty Hill</b>						
Acrulog PPB	H <sub>2</sub> S	No	0 – 0 ppb	0.00 ppb <sup>d</sup>	0.00 ppb	70 ppb
<b>Riverchase Estates</b>						
Acrulog PPB	H <sub>2</sub> S	No	0 – 0 ppb	0.00 ppb <sup>e</sup>	0.09 ppb	70 ppb
<b>Millstone Creek</b>						
Acrulog PPB	H <sub>2</sub> S	No	0 – 0 ppb	0.00 ppb <sup>f</sup>	0.00 ppb	70 ppb

<sup>b</sup> The 24-hr average at Catawba Headstart is not represented by the full 24-hr period; a total of 11 30-minute averages are missing from the reported period due to quarterly audit performed at this location.

<sup>c</sup> The 24-hr average at Treetops is not represented by the full 24-hr period; a total of 10 30-minute averages are missing from the reported period due to quarterly audit performed at this location.

<sup>d</sup> The 24-hr average at Liberty Hill is not represented by the full 24-hr period; a total of 10 30-minute averages are missing from the reported period due to quarterly audit performed at this location.

<sup>e</sup> The 24-hr average at Riverchase Estates is not represented by the full 24-hr period; a total of 11 30-minute averages are missing from the reported period due to quarterly audit performed at this location.

<sup>f</sup> The 24-hr average at Millstone Creek is not represented by the full 24-hr period; a total of 11 30-minute averages are missing from the reported period due to quarterly audit performed at this location.

## 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 – 6 ppb	1.55 ppb <sup>g</sup>	2.27 ppb	600 ppb
<b>Station 2</b>						
TAPI Analyzer	H <sub>2</sub> S	No	1 – 3 ppb	0.87 ppb <sup>h</sup>	0.76 ppb	600 ppb
<b>Station 3</b>						
TAPI Analyzer	H <sub>2</sub> S	No	0 – 6 ppb	1.85 ppb <sup>i</sup>	0.84 ppb	600 ppb

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

<sup>g</sup> The 24-hr average at Station 1 is not represented by the full 24-hr period; a total of 3 30-minute averages are missing from the reported period due to a follow-up QC check performed at this location.

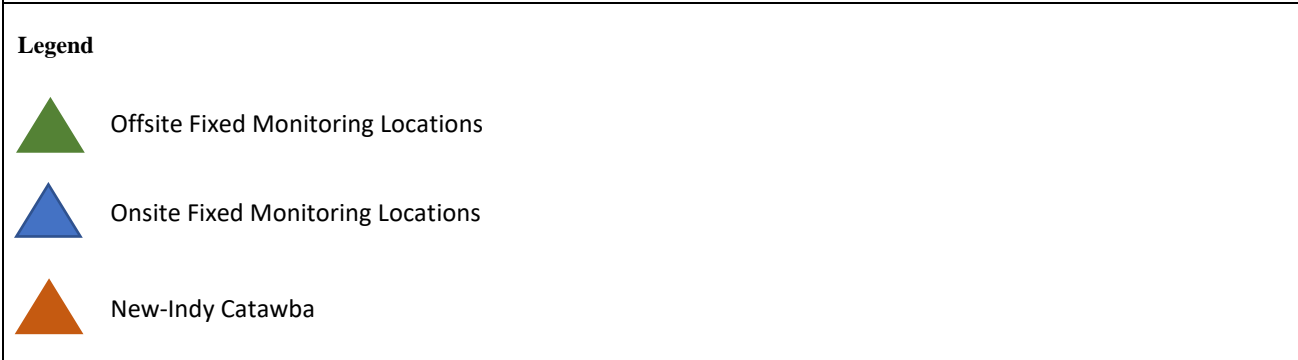
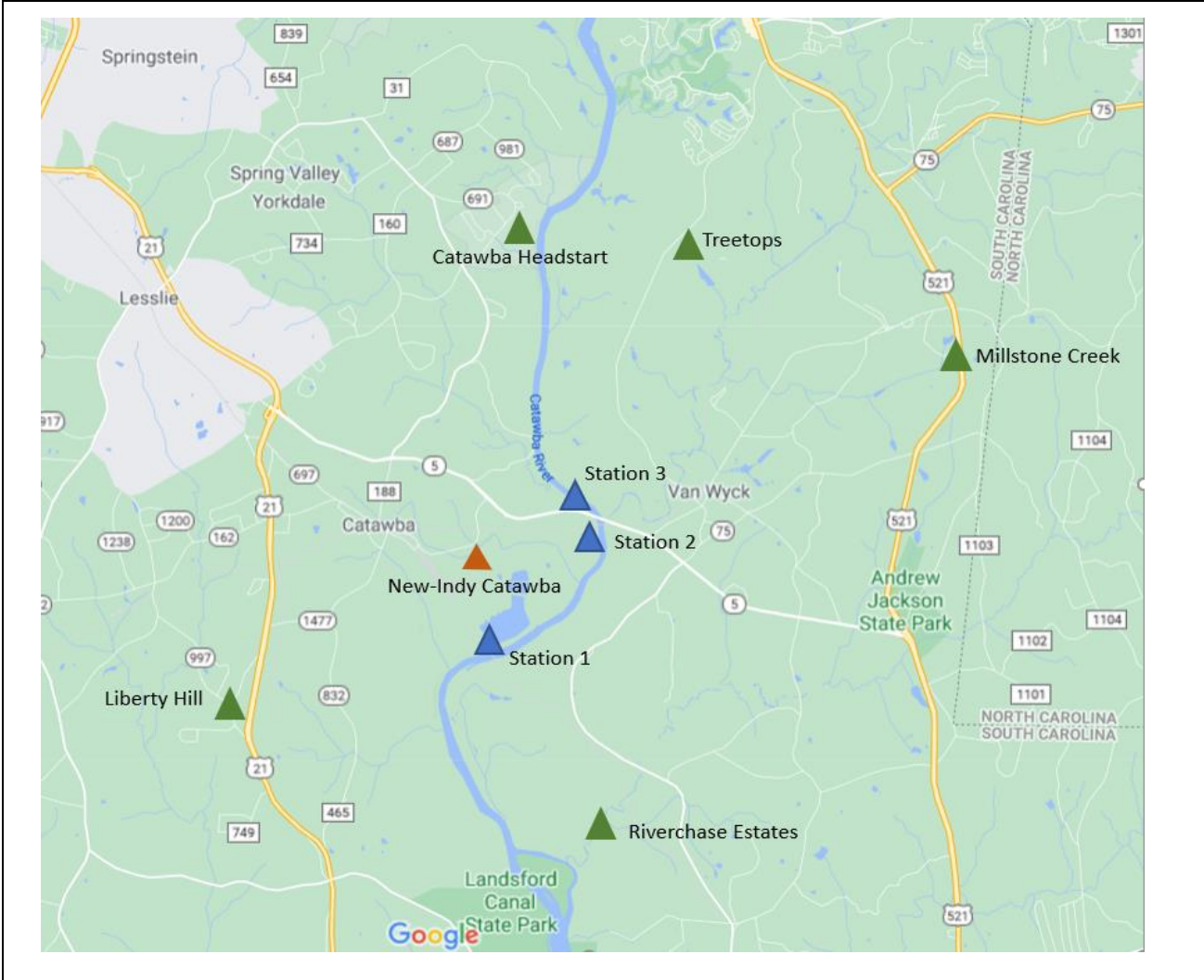
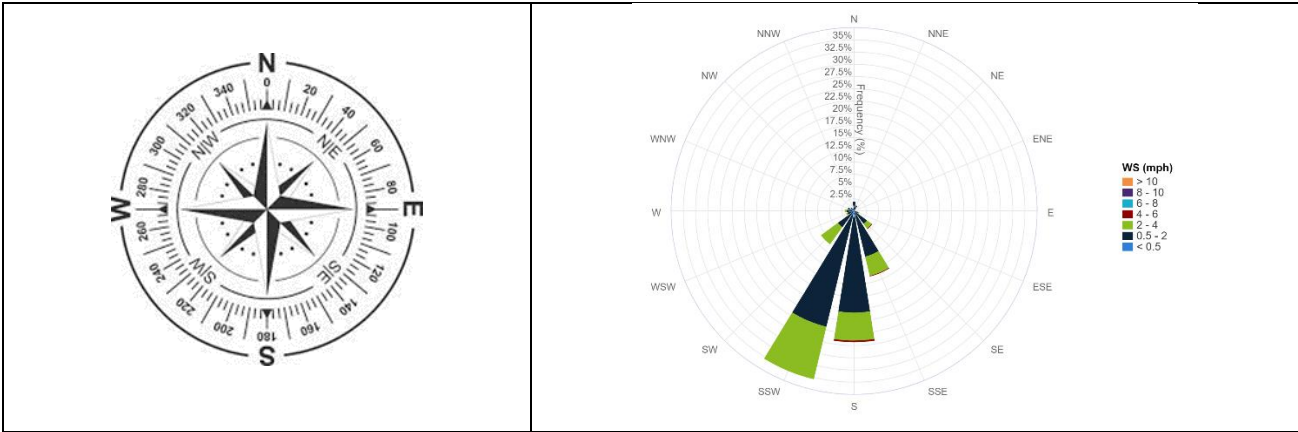
<sup>h</sup> The 24-hr average at Station 2 is not represented by the full 24-hr period; a total of 4 30-minute averages are missing from the reported period due to a follow-up QC check performed at this location.

<sup>i</sup> The 24-hr average at Station 3 is not represented by the full 24-hr period; a total of 12 30-minute averages are missing from the reported period due to quarterly audit performed at this location.

### 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.**



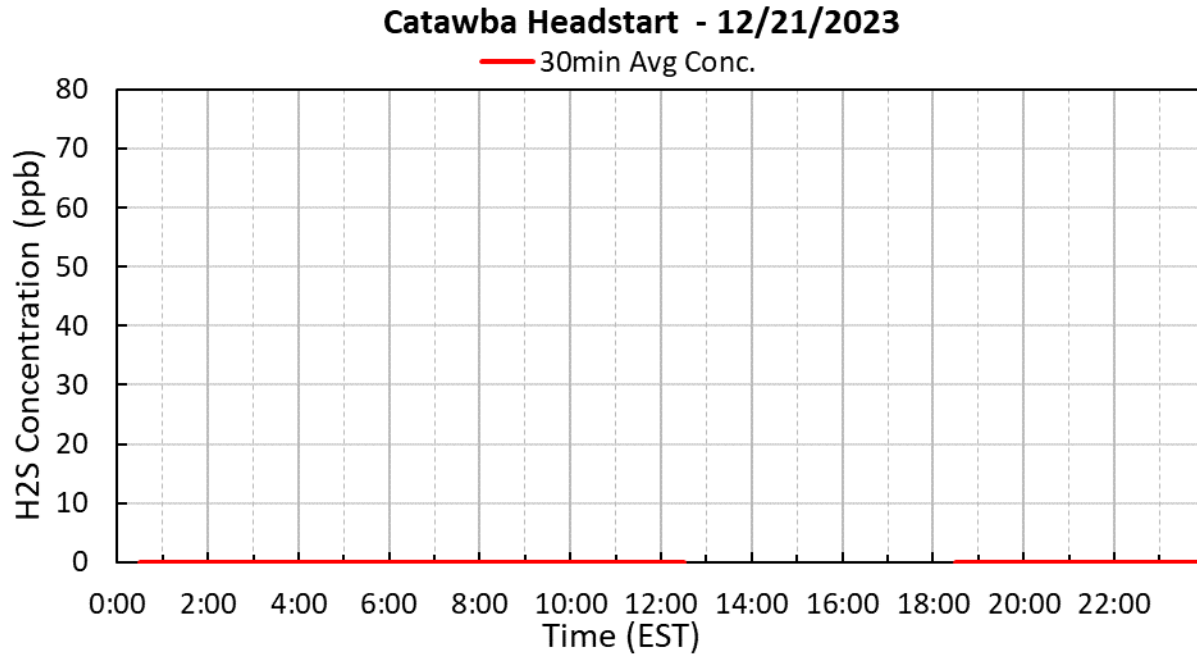
## Period H<sub>2</sub>S Monitoring Hydrogen Sulfide Offsite Monitors

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

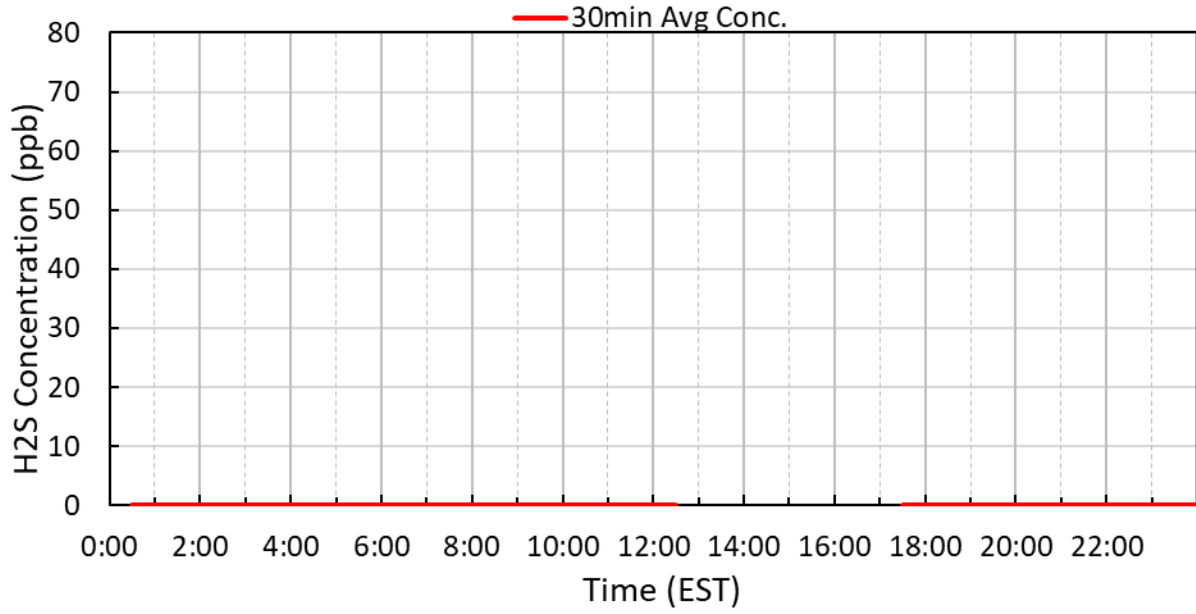
The five stand-alone H<sub>2</sub>S monitoring stations correlate with five previous EPA's Viper monitoring system which includes areas to the north-northeast and south-southwest of the New-Indy Catawba Mill.

Winds were predominantly coming from the southwest, south-southwest, south and south-southeast direction throughout the day at 1 to 3 mph.

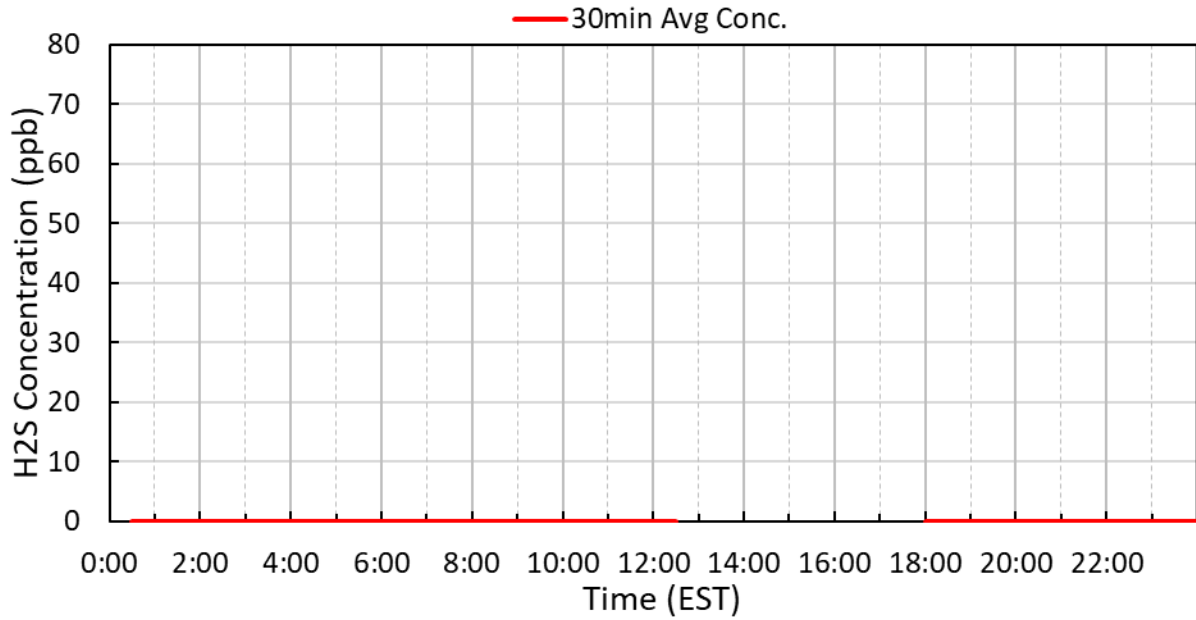
See wind rose diagram with aerial map figure for full wind data during this reporting period.



### Treetops - 12/21/2023

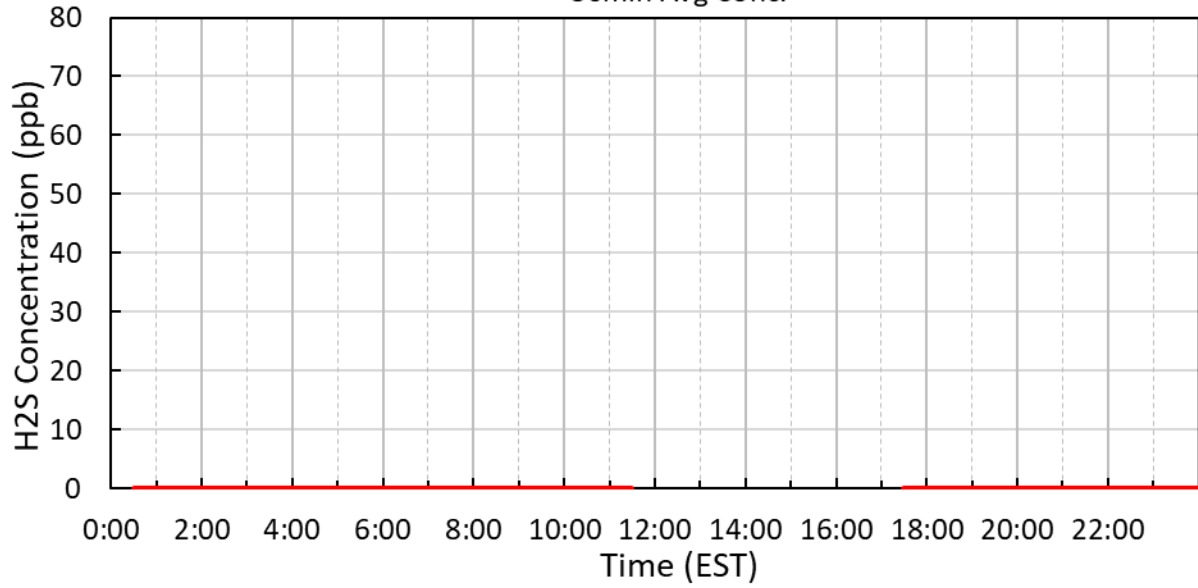


### Liberty Hill - 12/21/2023



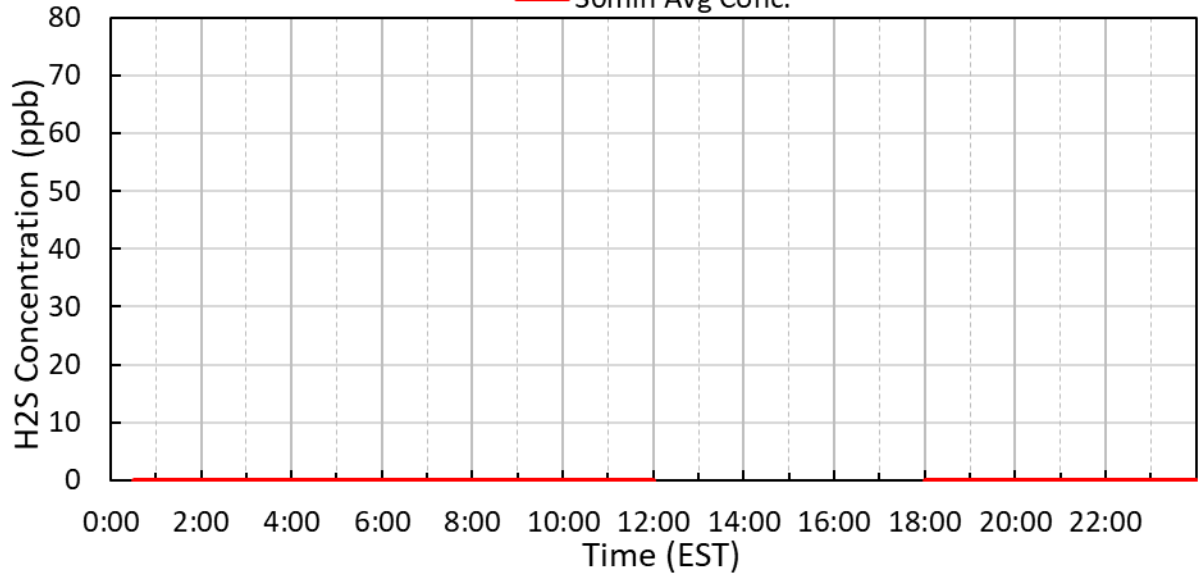
### Riverchase - 12/21/2023

— 30min Avg Conc.



### Millstone Creek - 12/21/2023

— 30min Avg Conc.



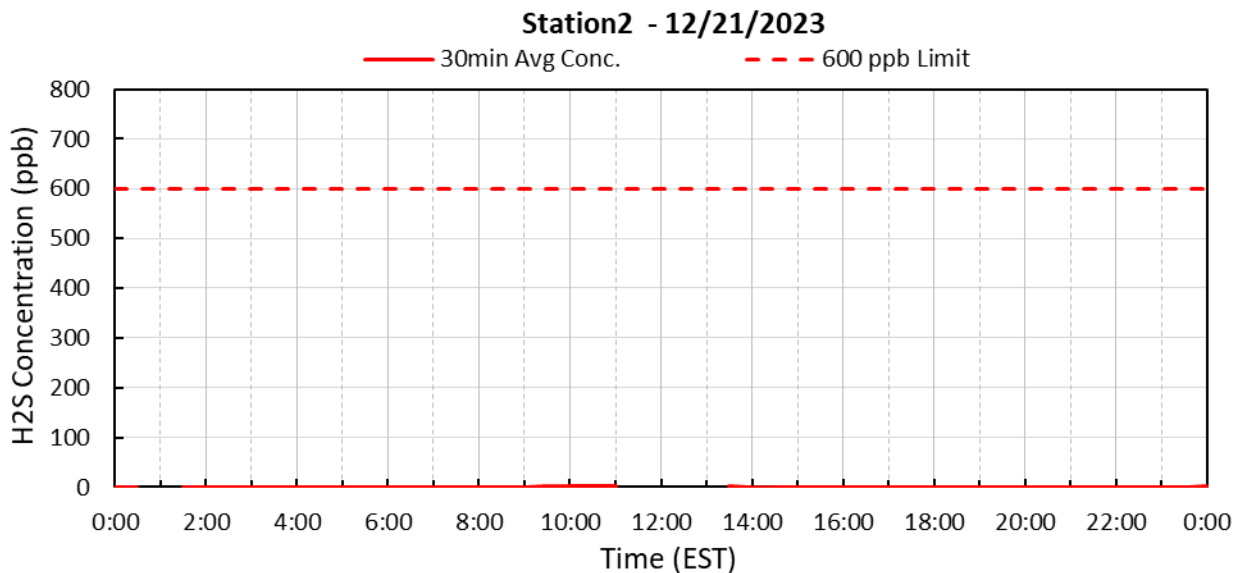
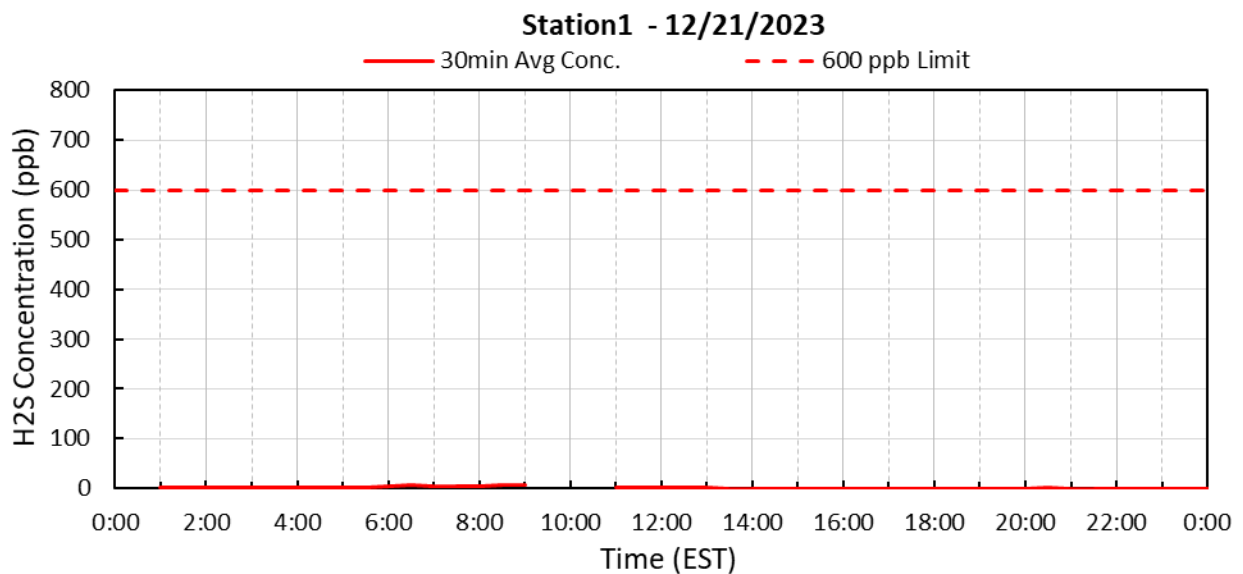
## Period H<sub>2</sub>S Monitoring Hydrogen Sulfide Onsite Monitors

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

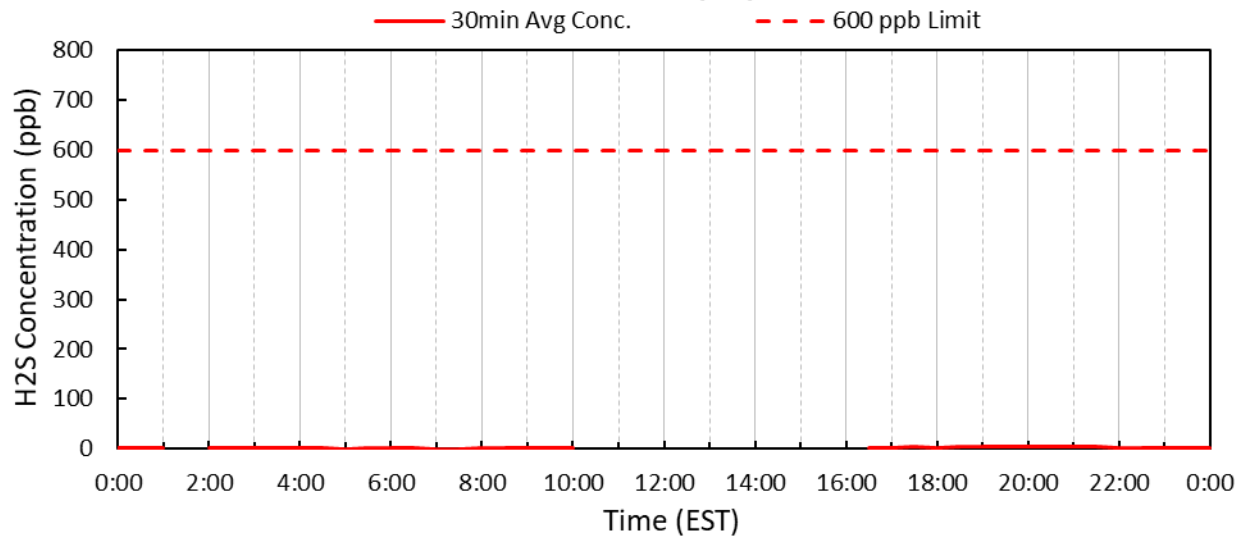
Depending on wind direction, the H<sub>2</sub>S measured at the onsite fence line locations may not exit the mill property at reported concentrations. Wind directions from offsite locations, blowing onto mill property, will disperse ambient concentrations to lower levels prior to exiting the plant site.

Winds were predominantly coming from the southwest, south-southwest, south and south-southeast direction throughout the day at 1 to 3 mph.

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



### Station3 - 12/21/2023



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
12/21/2023 0:30	AX	1.7	197	0.7	0.8	360	0.7	0.3	354
12/21/2023 1:00	2.0	1.2	183	AX	0.5	12	0.6	0.3	347
12/21/2023 1:30	2.1	0.7	168	0.7	0.9	30	AX	0.4	20
12/21/2023 2:00	2.1	0.9	169	0.7	1.0	17	0.9	0.4	6
12/21/2023 2:30	2.2	1.2	185	0.8	0.9	7	0.8	0.2	340
12/21/2023 3:00	2.1	1.4	199	0.6	0.7	352	0.6	0.2	329
12/21/2023 3:30	2.3	1.8	196	0.6	0.4	10	0.5	0.3	349
12/21/2023 4:00	2.8	0.9	166	0.6	0.8	33	0.6	0.7	3
12/21/2023 4:30	2.8	1.1	174	0.6	0.8	27	0.6	0.6	36
12/21/2023 5:00	2.6	1.0	168	0.7	0.7	18	0.4	0.2	11
12/21/2023 5:30	2.5	0.8	190	0.7	0.8	16	0.5	0.3	353
12/21/2023 6:00	4.7	0.7	200	0.7	0.9	17	0.6	0.5	12
12/21/2023 6:30	6.0	1.0	184	0.6	0.4	33	0.5	0.2	358
12/21/2023 7:00	3.7	1.2	213	0.7	0.8	11	0.2	0.3	347
12/21/2023 7:30	3.9	1.2	189	0.8	0.4	28	0.4	0.3	2
12/21/2023 8:00	4.4	1.6	197	0.8	0.4	5	0.5	0.2	1
12/21/2023 8:30	5.5	0.7	178	0.8	0.5	352	0.6	0.4	28
12/21/2023 9:00	6.2	1.6	192	0.9	0.3	359	0.6	0.4	65
12/21/2023 9:30	AX	0.6	239	1.4	0.5	310	1.9	AZ	AZ
12/21/2023 10:00	AX	0.9	79	1.7	0.4	335	2.1	AZ	AZ
12/21/2023 10:30	AX	0.8	352	1.8	0.6	323	AZ	AZ	AZ
12/21/2023 11:00	2.2	0.9	231	2.9	1.4	211	AZ	0.6	54
12/21/2023 11:30	1.4	1.4	178	AX	0.9	119	AZ	1.3	93
12/21/2023 12:00	1.2	2.2	162	AX	1.4	202	AZ	1.4	168
12/21/2023 12:30	0.7	1.5	169	AX	1.6	196	AZ	1.5	77
12/21/2023 13:00	0.4	1.2	185	AX	1.7	209	AZ	1.1	102
12/21/2023 13:30	0.2	1.9	219	1.3	1.8	169	AZ	1.7	137
12/21/2023 14:00	0.2	2.1	150	1.0	1.7	243	AZ	1.4	127
12/21/2023 14:30	0.2	1.8	178	0.8	1.8	247	AZ	1.4	160
12/21/2023 15:00	0.2	1.5	216	0.8	2.1	199	AZ	1.5	49
12/21/2023 15:30	0.2	2.2	179	0.6	1.9	166	AZ	1.6	185
12/21/2023 16:00	0.2	3.2	177	0.5	1.4	205	AZ	1.8	197
12/21/2023 16:30	0.2	2.8	170	0.6	1.1	193	2.2	1.0	198
12/21/2023 17:00	0.2	3.0	172	0.6	1.2	180	2.1	0.9	203
12/21/2023 17:30	0.2	2.6	198	0.6	0.4	66	3.4	0.3	278
12/21/2023 18:00	0.2	2.4	205	0.7	0.2	42	2.8	0.2	80
12/21/2023 18:30	0.2	2.3	215	0.7	0.3	72	3.4	0.2	333
12/21/2023 19:00	0.2	2.5	211	0.6	0.2	82	3.5	0.3	259
12/21/2023 19:30	0.2	2.3	210	0.6	0.3	81	3.5	0.2	188
12/21/2023 20:00	0.2	1.9	213	0.6	0.2	83	4.5	0.2	107
12/21/2023 20:30	0.4	1.7	196	0.8	0.3	52	3.3	0.2	78
12/21/2023 21:00	0.2	1.6	199	0.9	0.3	223	5.5	0.3	245
12/21/2023 21:30	0.2	1.2	196	0.9	0.3	35	5.0	0.3	289
12/21/2023 22:00	0.2	1.9	199	1.0	0.4	6	2.5	0.4	73
12/21/2023 22:30	0.2	1.0	207	1.0	0.5	32	2.9	0.4	358
12/21/2023 23:00	0.2	1.9	195	0.8	0.2	19	2.6	0.2	317
12/21/2023 23:30	0.2	1.6	191	0.9	0.6	25	2.0	0.2	328
12/22/2023 0:00	0.2	1.3	189	1.1	0.6	29	2.0	0.3	351



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