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: 03/15/23 12:00 am To: 03/15/23 11:59 pm

Offsite Monitors

Instrument	Analyte	ATSDR MRL 14-day Avg Reached?	Concentration Range Detected ^a	24-hr Average ^a	7-day Average	ATSDR 14-day MRL	
Catawba Headsta	Catawba Headstart						
Acrulog PPB	H_2S	No	0-0 ppb	0.00 ppb ^b	0.00 ppb	70 ppb	
Treetops							
Acrulog PPB	H_2S	No	0-0 ppb	0.00 ppb ^c	0.00 ppb	70 ppb	
Liberty Hill							
Acrulog PPB	H_2S	No $0 - 0 \text{ ppb}$ 0.00		0.00 ppb ^d	0.00 ppb	70 ppb	
Riverchase Estates							
Acrulog PPB	H_2S	No	0-0 ppb	0.00 ppb ^e	0.00 ppb	70 ppb	
Millstone Creek	Millstone Creek						
Acrulog PPB	H_2S	No	0-0 ppb	0.00 ppb ^f	0.00 ppb 70 ppb		

^b The 24-hr average at this location is not represented by the full 24-hr period; a total of 17 30-minute average are missing from the reported period due to a quarterly audit performed at Catawba Headstart.

Onsite Fenceline Monitors

Instrument	Analyte	30-min AEGL Reached?	Concentration Range Detected ^a	24-hr Average a		30-min AEGL	
Station 1							
TAPI Analyzer	H_2S	No	0 - 4 ppb	0.56 ppb	0.80 ppb	600 ppb	
Station 2							
TAPI Analyzer	H_2S	No	0-0 ppb	0.21 ppb ^g	0.30 ppb	600 ppb	
Station 3							
TAPI Analyzer	H_2S	No	0 – 1 ppb 0.26 ppb ^h 0.36 ppl		0.36 ppb	600 ppb	

^a Based on 30-minute averages.

Notes:

ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level (MRL)

AEGL EPA Acute Exposure Guidelines Levels

H₂S Hydrogen Sulfide

TAPI Teledyne API H₂S Analyzer

hr Hour
min Minute
ppb Parts per billion

MRL Limit Limit defined as a 14-day average value.

^c The 24-hr average at this location is not represented by the full 24-hr period; a total of 15 30-minute average are missing from the reported period due to a quarterly audit performed at Treetops.

^d The 24-hr average at this location is not represented by the full 24-hr period; a total of 17 30-minute average are missing from the reported period due to quarterly audit performed at Liberty Hill.

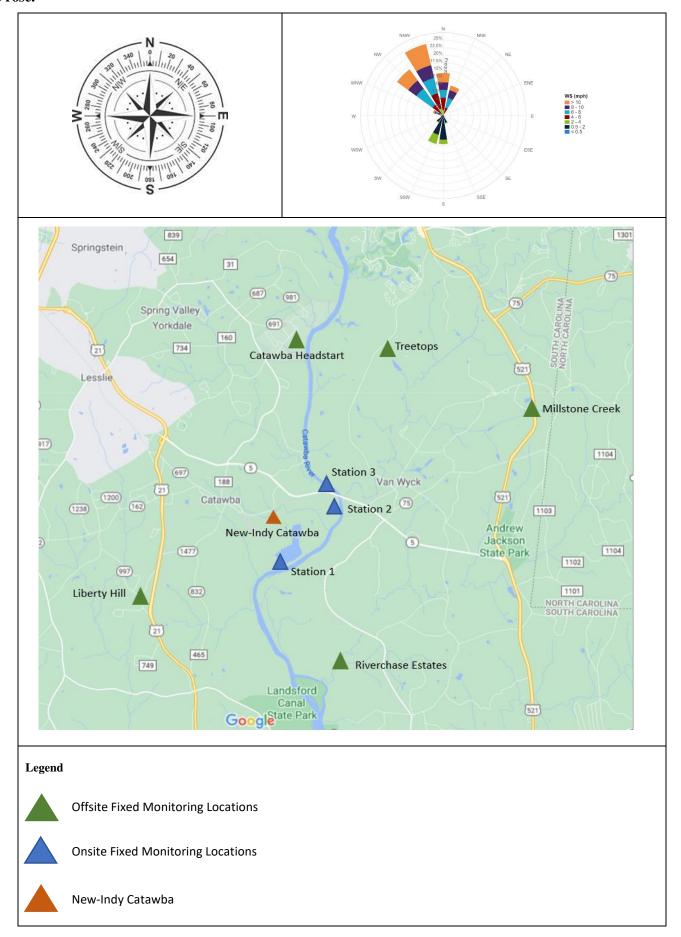
^e The 24-hr average at this location is not represented by the full 24-hr period; a total of 16 30-minute average are missing from the reported period due to a quarterly audit performed at Riverchase Estates.

^f The 24-hr average at this location is not represented by the full 24-hr period; a total of 15 30-minute average are missing from the reported period due to quarterly audit performed at Millstone Creek.

^g The 24-hr average at Station 2 is not represented by the full 24-hr period; a total of 21 30-minute averages are missing from the reported period due to routine maintenance, quarterly calibration, and multi-point verification work performed at this station. The data at Station 2 is represented by the redundant unit data due to a failed overnight QC check on the primary unit.

^h The 24-hr average at Station 3 is not represented by the full 24-hr period; a total of 8 30-minute averages are missing from the reported period due to a quarterly audit performed at this station.

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



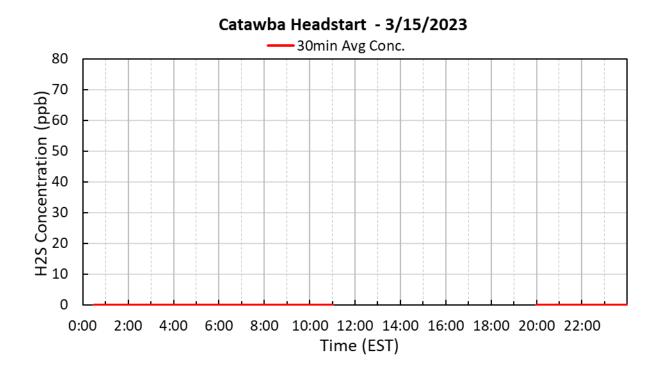
Period H₂S Monitoring Hydrogen Sulfide Offsite Monitors

Below are graphs for offsite locations where hydrogen sulfide (H₂S) was detected during the current reporting period.

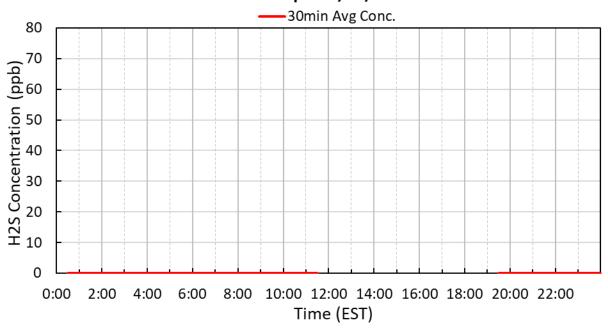
The five stand-alone H₂S monitoring stations correlate with five previous EPA's Viper monitoring system which includes areas to the north-northeast and south-southwest of the New-Indy Catawba Mill.

Winds were coming from a variable direction throughout the day at 1 to 12 mph.

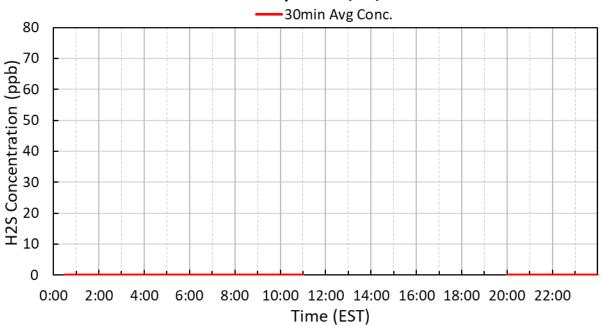
See wind rose diagram with aerial map figure for full wind data during this reporting period.



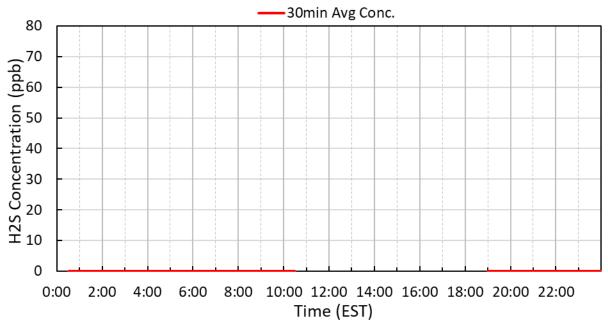
Treetops - 3/15/2023



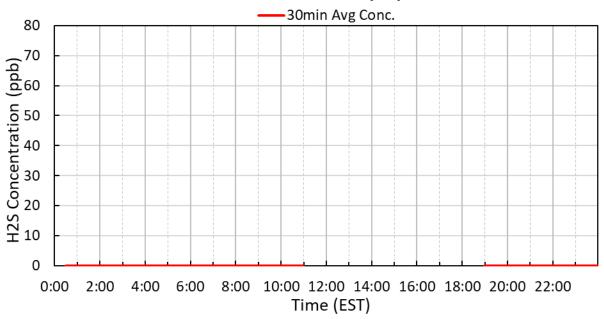
Liberty Hill - 3/15/2023



Riverchase - 3/15/2023



Millstone Creek - 3/15/2023



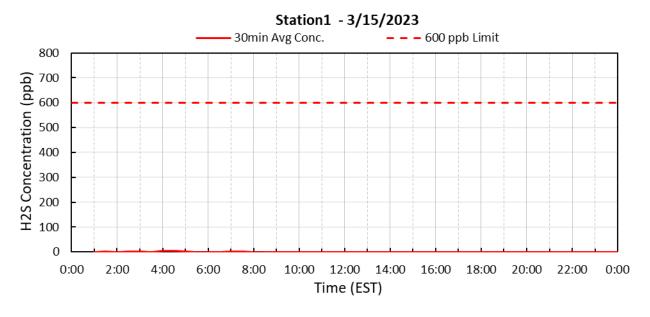
Period H₂S Monitoring Hydrogen Sulfide Onsite Monitors

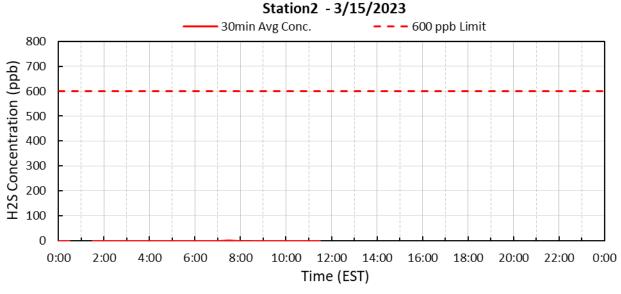
Below are graphs for onsite locations during the current reporting period.

Depending on wind direction, the H₂S 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 at 1 to 12 mph.

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





Station3 - 3/15/2023 30min Avg Conc. **- - -** 600 ppb Limit 800 700 H2S Concentration (ppb) 600 500 400 300 200 100 0 0:00 2:00 4:00 6:00 8:00 10:00 12:00 14:00 16:00 18:00 20:00 22:00 0:00

Time (EST)

Submitted Fenceline H_2S and Met 30-minute Data

	Station 1		Station 2			Station 3			
30-Minute Avgs	H2S	M	et	H2S	M	et	H2S	M	et
2/45/2022	30min Avg	20min Ava	30min Avg	30min Avg	30min Avg	20min Ava	30min Avg	20min Ava	30min Avg
3/15/2023	H2S Conc.	WS	WD	H2S Conc.	WS	WD	H2S Conc.	WS	WD
Date / Time	ppb	mph	degrees	ppb	mph	degrees	ppb	mph	degrees
3/15/2023 0:30	ΑX	8.8	13	0.2	1.3	325	0.2	0.4	266
3/15/2023 1:00 3/15/2023 1:30	0.2 1.0	6.4 5.5	12 2	0.2	0.9	11 280	0.2 AX	0.5 1.2	338 233
3/15/2023 2:00	0.7	4.6	350	0.2	1.6	321	0.2	0.4	268
3/15/2023 2:30	2.3	7.0	11	0.2	0.7	342	0.2	0.4	274
3/15/2023 2:30	1.8	1.8	341	0.2	0.7	24	0.2	0.4	287
3/15/2023 3:30	0.6	2.3	261	0.2	0.8	24	0.2	0.3	298
3/15/2023 3:30	3.5	4.6	358	0.2	1.5	13	0.2	0.5	272
3/15/2023 4:30	3.6	4.0	351	0.2	1.1	40	0.2	0.3	304
3/15/2023 5:00	1.5	6.7	332	0.2	1.5	322	0.2	0.4	169
3/15/2023 5:30	0.7	7.9	339	0.2	2.5	352	0.2	0.5	169
3/15/2023 5:30	0.7	10.8	331	0.2	2.3	321	0.2	0.5	266
3/15/2023 6:30	0.7	7.0	322	0.2	2.2	17	0.2	0.3	21
3/15/2023 7:00	1.0	5.9	321	0.2	1.6	316	0.2	0.8	241
3/15/2023 7:30	0.9	6.7	318	0.2	1.6	302	0.2	0.8	356
3/15/2023 7:30	0.4	7.5	322	0.4	1.5	323	0.2	1.1	29
3/15/2023 8:30	0.4	6.4	321	0.2	3.7	317	AZ	1.1	352
3/15/2023 9:00	0.2	7.5	319	0.2	4.4	294	AZ AZ	1.6	324
3/15/2023 9:00	0.2	9.1	331	0.2	6.1	300	AZ AZ	3.0	335
3/15/2023 10:00 3/15/2023 10:30	0.2	8.0 9.3	324 326	0.2	6.5 6.4	317 337	AZ AZ	3.4	329 337
3/15/2023 11:00 3/15/2023 11:30	0.2	11.8 10.2	336 337	0.2	5.9 5.9	323 318	AZ AZ	3.7	333 326
3/15/2023 12:00	0.2	11.5	337	0.2	6.5	325	AZ	2.7	334
3/15/2023 12:30	0.2	9.3 BA	334 BA	0.2	6.7 5.2	299 11	0.2	2.5 4.6	307 359
3/15/2023 13:00									
3/15/2023 13:30	0.2	8.7	334	0.2	5.2	354	0.2	3.8	342
3/15/2023 14:00	0.2	7.8	357	BA	6.0	316	0.2	3.9	340
3/15/2023 14:30	0.2	11.0	7	BA	5.8	335	0.2	4.8	344
3/15/2023 15:00	0.2	9.8	342	BC	4.9	354	0.2	3.1	338
3/15/2023 15:30	0.2	10.9	339	BC	5.1	324	0.2	2.9	337
3/15/2023 16:00	0.2	7.9	331	BC	4.9	341	0.2	3.1	338
3/15/2023 16:30	0.2	11.0	353	BC	6.1	297	0.2	1.5	318
3/15/2023 17:00	0.2	5.0	313	BC	4.2	327	0.2	2.2	333
3/15/2023 17:30	0.2	4.7	352	BC	2.8	334	0.2	1.3	285
3/15/2023 18:00	0.2	2.2	305	BC	2.2	325	0.2	0.8	246
3/15/2023 18:30	0.2	2.1	220	BC	1.2	358	0.2	0.7	202
3/15/2023 19:00	0.2	1.4	207	BC	0.4	277	0.2	0.6	254
3/15/2023 19:30	0.2	1.9	185	BC	0.6	55	0.2	0.6	262
3/15/2023 20:00	0.2	1.3	196	BC	0.6	287	0.2	0.6	313
3/15/2023 20:30	0.2	1.7	185	BC	0.5	342	0.2	0.5	244
3/15/2023 21:00	0.2	1.4	187	BC	0.4	350	0.6	0.3	233
3/15/2023 21:30	0.2	1.5	189	BC	0.8	319	0.6	0.5	303
3/15/2023 22:00	0.2	1.4	191	BC	0.6	2	0.4	0.4	303
3/15/2023 22:30	0.2	1.7	176	BC	0.5	5	0.2	0.3	306
3/15/2023 23:00	0.2	1.5	188	BC	0.7	7	0.4	0.3	316
3/15/2023 23:30	0.2	1.5	184	BC	0.4	342	0.6	0.4	304
3/16/2023 0:00	0.2	1.5	191	ВС	0.8	24	0.8	0.5	319

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				