

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: 08/31/23 12:00 am

To: 08/31/23 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 Headstart						
Acrulog PPB	H ₂ S	No	0 – 0 ppb	0.00 ppb	0.01 ppb	70 ppb
Treetops						
Acrulog PPB	H ₂ S	No	0 – 0 ppb	0.00 ppb	0.00 ppb	70 ppb
Liberty Hill						
Acrulog PPB	H ₂ S	No	0 – 4 ppb	0.29 ppb	0.14 ppb	70 ppb
Riverchase Estates						
Acrulog PPB	H ₂ S	No	0 – 3 ppb	0.08 ppb	0.07 ppb	70 ppb
Millstone Creek						
Acrulog PPB	H ₂ S	No	0 – 0 ppb	0.00 ppb	0.04 ppb	70 ppb

Onsite Fenceline Monitors

Instrument	Analyte	30-min AEGL Reached?	Concentration Range Detected ^a	24-hr Average ^a	7-day Average	30-min AEGL
Station 1						
TAPI Analyzer	H ₂ S	No	1 – 6 ppb	3.03 ppb	2.85 ppb	600 ppb
Station 2						
TAPI Analyzer	H ₂ S	No	0 – 1 ppb	0.37 ppb	0.85 ppb	600 ppb
Station 3						
TAPI Analyzer	H ₂ S	No	0 – 1 ppb	0.21 ppb ^b	0.75 ppb	600 ppb

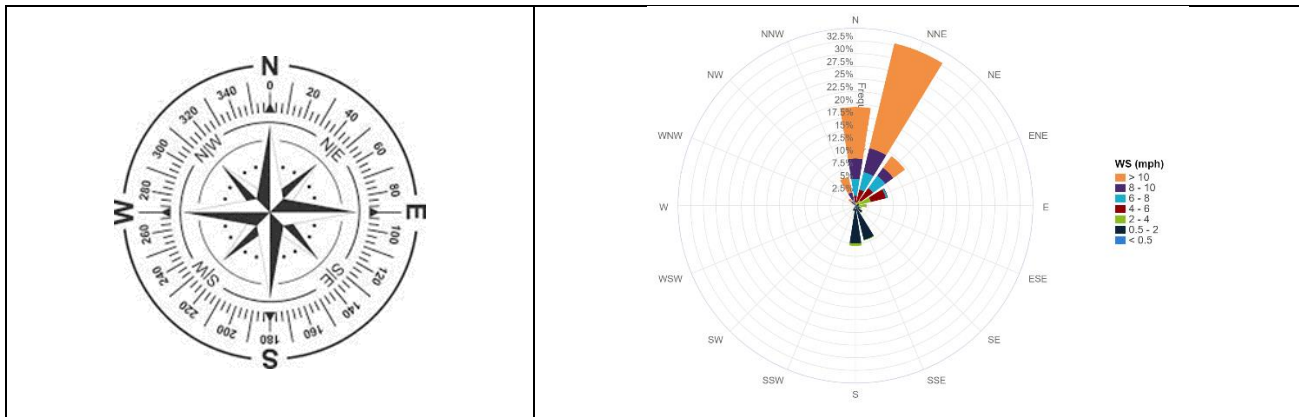
^a Based on 30-minute averages.

^b The 24-hr average at Station 3 is not represented by the full 24-hr period; a total of 15 30-min averages are missing from the reported period due to the power failure and QC checks performed at this location.

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.

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

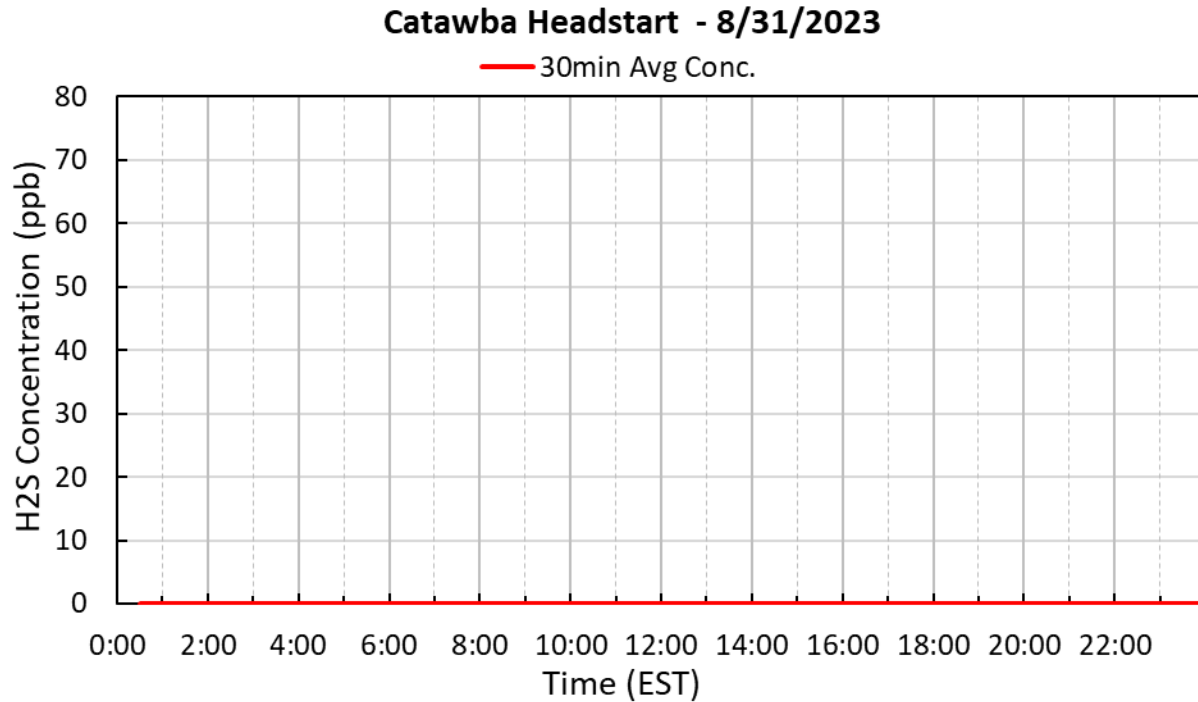
Period H₂S Monitoring Hydrogen Sulfide Offsite Monitors

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

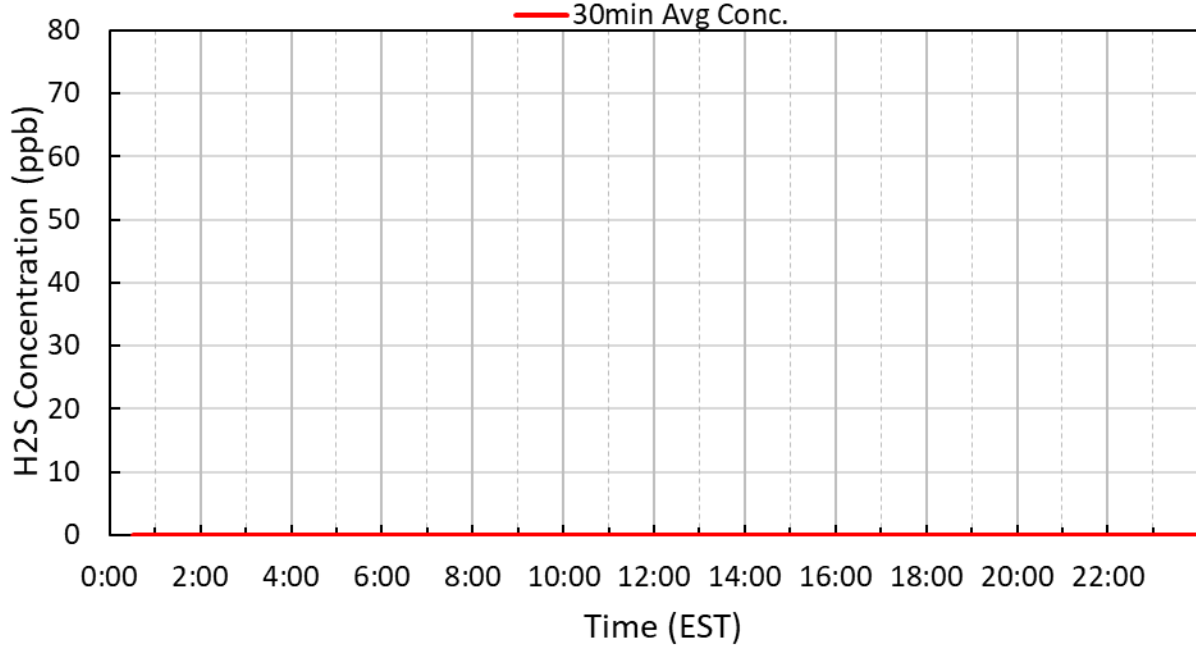
The five stand-alone H₂S monitoring stations correlate with five previous EPA's Viper monitoring system which includes areas to the north-northeast and south-southwest of the New-Indy Catawba Mill.

Winds were predominantly coming from the north and north-northeast direction throughout the day at 1 to 19 mph.

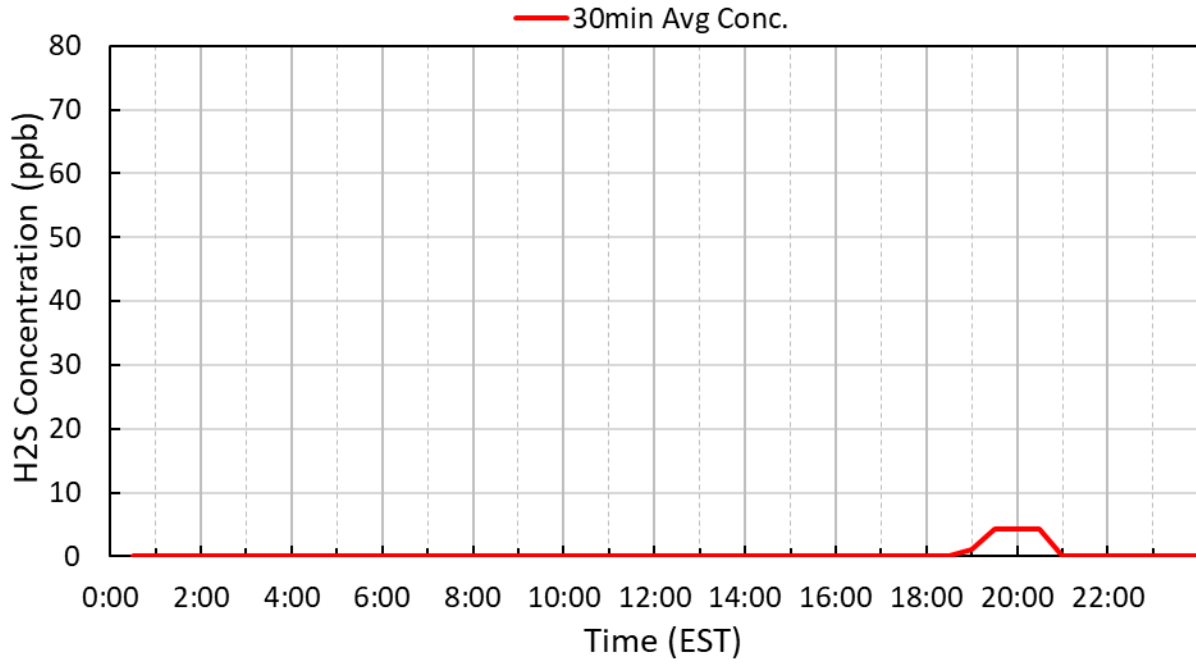
See wind rose diagram with aerial map figure for full wind data during this reporting period.



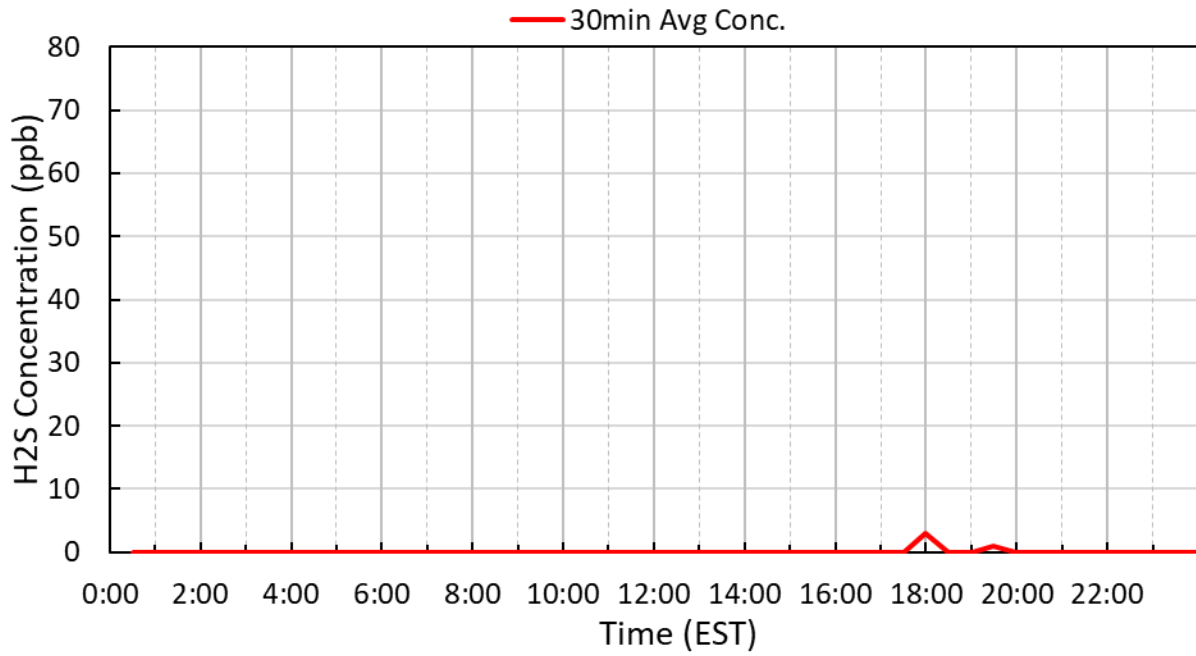
Treetops - 8/31/2023



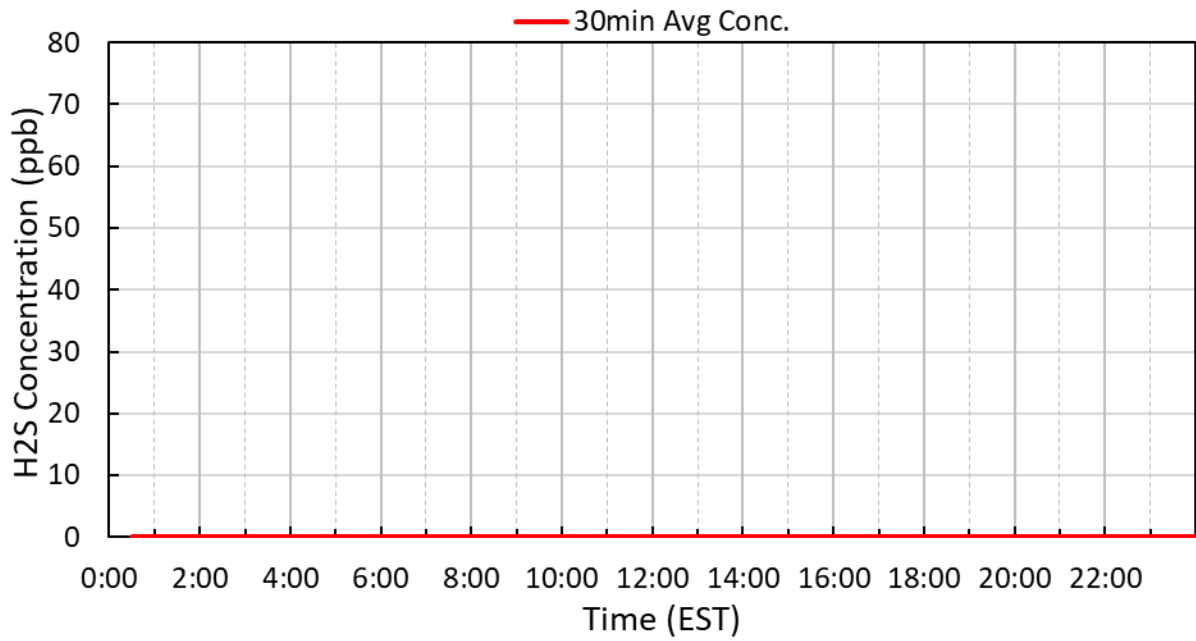
Liberty Hill - 8/31/2023



Riverchase - 8/31/2023



Millstone Creek - 8/31/2023



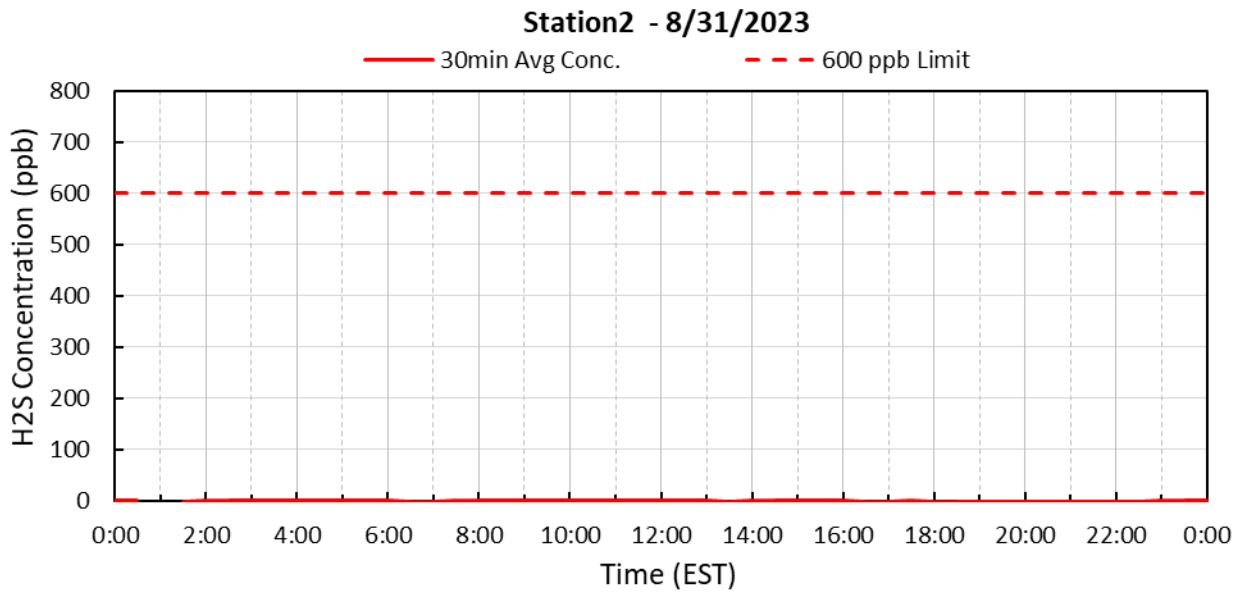
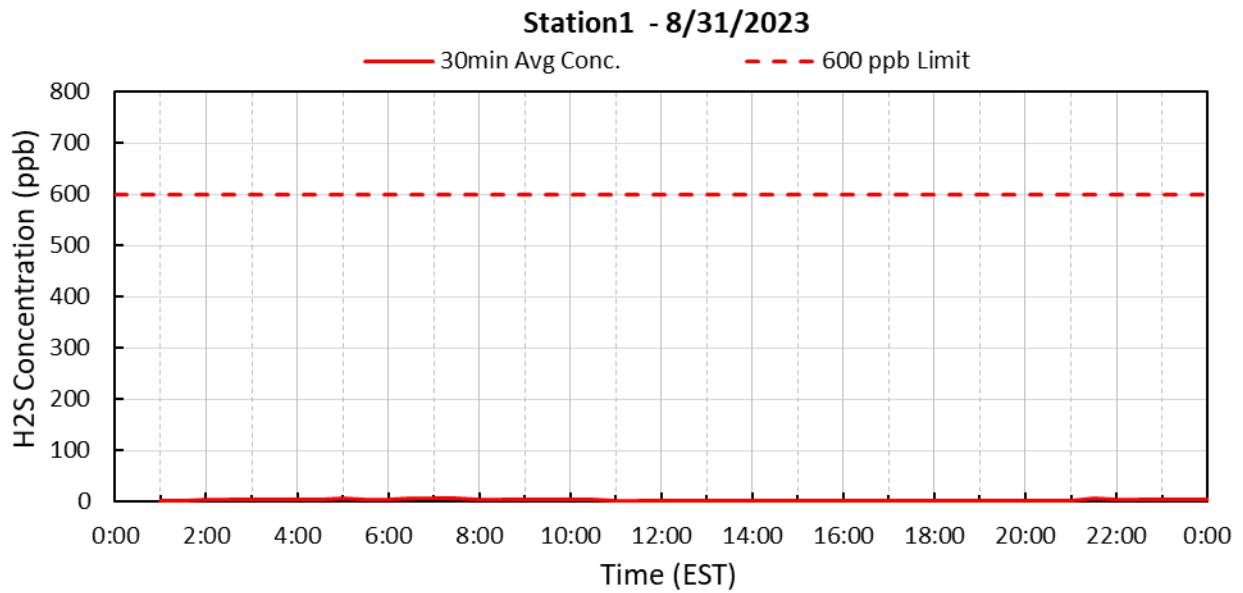
Period H₂S Monitoring Hydrogen Sulfide Onsite Monitors

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

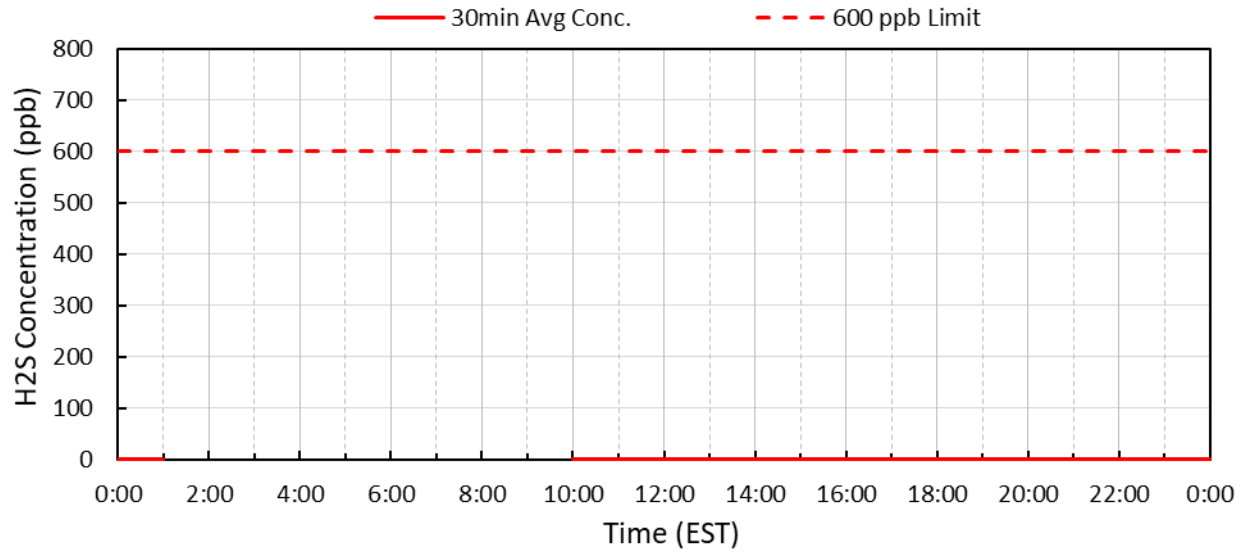
Depending on wind direction, the H₂S measured at the onsite fence line locations may not exit the mill property at reported concentrations. Wind directions from offsite locations, blowing onto mill property, will disperse ambient concentrations to lower levels prior to exiting the plant site.

Winds were predominantly coming from the north and north-northeast direction throughout the day at 1 to 19 mph.

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



Station3 - 8/31/2023



Submitted Fenceline H₂S and Met 30-minute Data

30-Minute Avgs	Station 1			Station 2			Station 3		
	H2S	Met		H2S	Met		H2S	Met	
8/31/2023	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
8/31/2023 0:30	AX	11.4	341	0.5	4.5	340	0.2	3.5	348
8/31/2023 1:00	1.9	11.8	339	AX	4.7	344	0.2	3.2	345
8/31/2023 1:30	1.9	9.6	338	0.2	4.5	342	AX	3.0	345
8/31/2023 2:00	2.9	11.8	8	0.6	3.7	354	0.5	3.1	9
8/31/2023 2:30	4.9	14.0	16	0.6	3.2	22	AV	AV	AV
8/31/2023 3:00	4.4	10.6	11	0.5	2.7	12	AV	AV	AV
8/31/2023 3:30	4.0	8.8	341	0.5	2.8	331	AV	AV	AV
8/31/2023 4:00	3.4	7.8	356	0.4	3.0	346	AV	AV	AV
8/31/2023 4:30	4.6	9.1	8	0.4	1.8	354	AV	2.8	3
8/31/2023 5:00	6.4	12.1	8	0.5	2.8	2	AV	3.5	1
8/31/2023 5:30	4.3	13.0	8	0.5	3.7	360	AV	3.7	4
8/31/2023 6:00	5.0	10.6	10	0.5	2.1	16	AV	3.6	2
8/31/2023 6:30	5.5	7.4	3	0.2	1.3	356	AV	1.7	343
8/31/2023 7:00	5.5	9.9	7	0.2	2.7	347	AV	3.7	359
8/31/2023 7:30	6.3	10.8	12	0.5	2.7	5	AV	3.5	8
8/31/2023 8:00	4.1	13.6	15	0.4	4.0	6	AV	4.0	14
8/31/2023 8:30	3.9	16.9	15	0.5	4.6	17	AV	4.7	18
8/31/2023 9:00	3.8	18.5	19	0.4	3.7	31	AX	5.3	18
8/31/2023 9:30	3.6	15.9	25	0.4	3.6	17	AX	5.1	40
8/31/2023 10:00	3.8	16.2	21	0.5	3.7	26	0.2	4.9	23
8/31/2023 10:30	2.8	14.9	27	0.4	3.9	23	0.2	4.8	24
8/31/2023 11:00	2.5	12.3	23	0.5	2.8	34	0.2	4.1	18
8/31/2023 11:30	2.1	9.6	32	0.5	3.6	11	0.2	3.5	35
8/31/2023 12:00	2.5	10.2	19	0.4	3.7	7	0.2	4.1	14
8/31/2023 12:30	2.2	12.1	18	0.4	3.2	9	0.2	4.3	14
8/31/2023 13:00	1.5	8.5	41	0.6	2.3	26	0.2	3.3	46
8/31/2023 13:30	1.6	7.1	33	0.2	2.3	48	0.2	3.4	44
8/31/2023 14:00	1.9	8.2	29	0.4	3.6	354	0.2	3.1	27
8/31/2023 14:30	1.6	6.9	33	0.5	2.2	22	0.2	2.5	24
8/31/2023 15:00	1.5	6.3	28	0.5	2.3	24	0.2	2.6	47
8/31/2023 15:30	1.6	5.3	38	0.4	1.8	48	0.2	2.4	34
8/31/2023 16:00	1.3	4.9	48	0.4	1.5	38	0.2	2.6	67
8/31/2023 16:30	2.0	5.6	40	0.2	1.2	59	0.2	2.1	27
8/31/2023 17:00	1.8	6.0	32	0.2	2.2	349	0.2	1.5	353
8/31/2023 17:30	2.2	5.9	28	0.4	1.2	32	0.2	2.4	65
8/31/2023 18:00	1.2	4.4	61	0.2	0.4	64	0.2	1.5	26
8/31/2023 18:30	1.1	4.8	57	0.2	0.2	71	0.2	1.4	35
8/31/2023 19:00	1.0	3.1	81	0.2	0.3	94	0.2	0.8	35
8/31/2023 19:30	1.1	1.6	146	0.2	0.4	65	0.2	0.3	18
8/31/2023 20:00	1.2	1.6	187	0.2	0.2	48	0.2	0.2	324
8/31/2023 20:30	1.3	1.5	175	0.2	0.3	25	0.2	0.3	307
8/31/2023 21:00	2.5	1.4	161	0.2	0.5	14	0.2	0.3	310
8/31/2023 21:30	5.3	1.6	161	0.2	0.4	41	0.2	0.3	330
8/31/2023 22:00	4.4	1.3	172	0.2	0.2	28	0.2	0.3	303
8/31/2023 22:30	3.3	1.2	172	0.2	0.2	340	0.2	0.2	309
8/31/2023 23:00	2.7	1.3	165	0.4	0.2	6	0.2	0.3	4
8/31/2023 23:30	3.2	1.0	147	0.5	0.3	6	0.2	0.4	16
9/1/2023 0:00	5.0	1.9	68	0.4	0.3	14	0.2	0.3	12

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