

# 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:** 11/07/23 12:00 am

**To:** 11/07/23 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 – 23 ppb	4.74 ppb	0.89 ppb	70 ppb
<b>Treetops</b>						
Acrulog PPB	H <sub>2</sub> S	No	0 – 1 ppb	0.02 ppb	0.01 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	1.51 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

## Onsite Fenceline Monitors

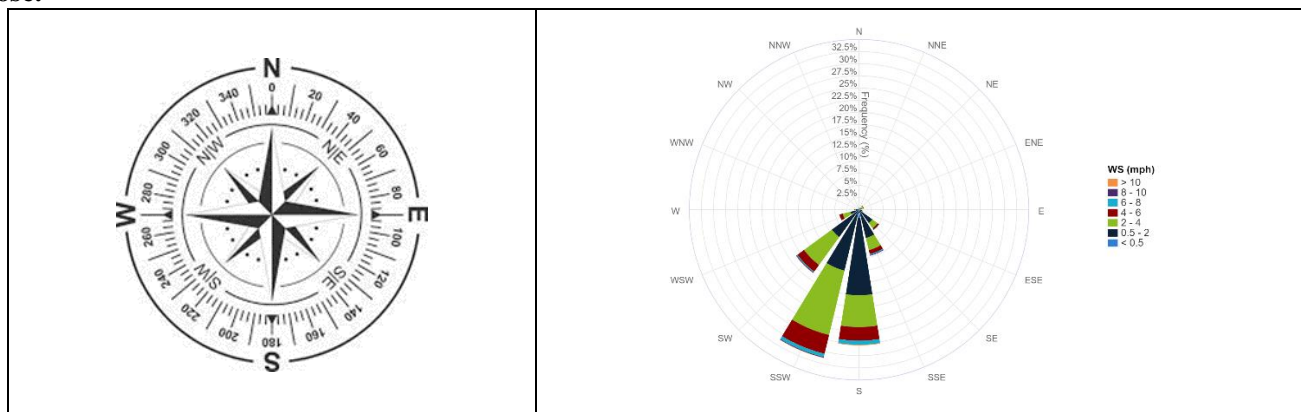
Instrument	Analyte	30-min AEGL Reached?	Concentration Range Detected <sup>a</sup>	24-hr Average <sup>a</sup>	7-day Average	30-min AEGL
<b>Station 1</b>						
TAPI Analyzer	H <sub>2</sub> S	No	0 – 1 ppb	0.28 ppb	10.36 ppb	600 ppb
<b>Station 2</b>						
TAPI Analyzer	H <sub>2</sub> S	No	0 – 8 ppb	1.23 ppb	0.78 ppb	600 ppb
<b>Station 3</b>						
TAPI Analyzer	H <sub>2</sub> S	No	1 – 36 ppb	6.08 ppb	1.51 ppb	600 ppb

<sup>a</sup> 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
- 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

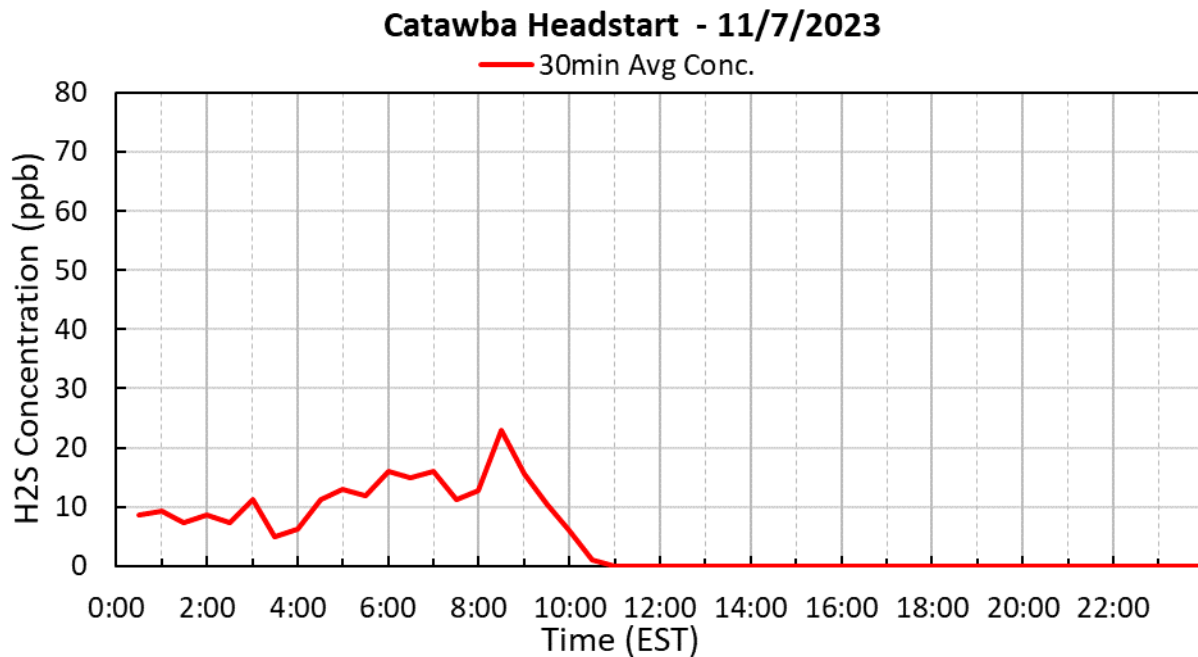
## Period H<sub>2</sub>S Monitoring Hydrogen Sulfide Offsite Monitors

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

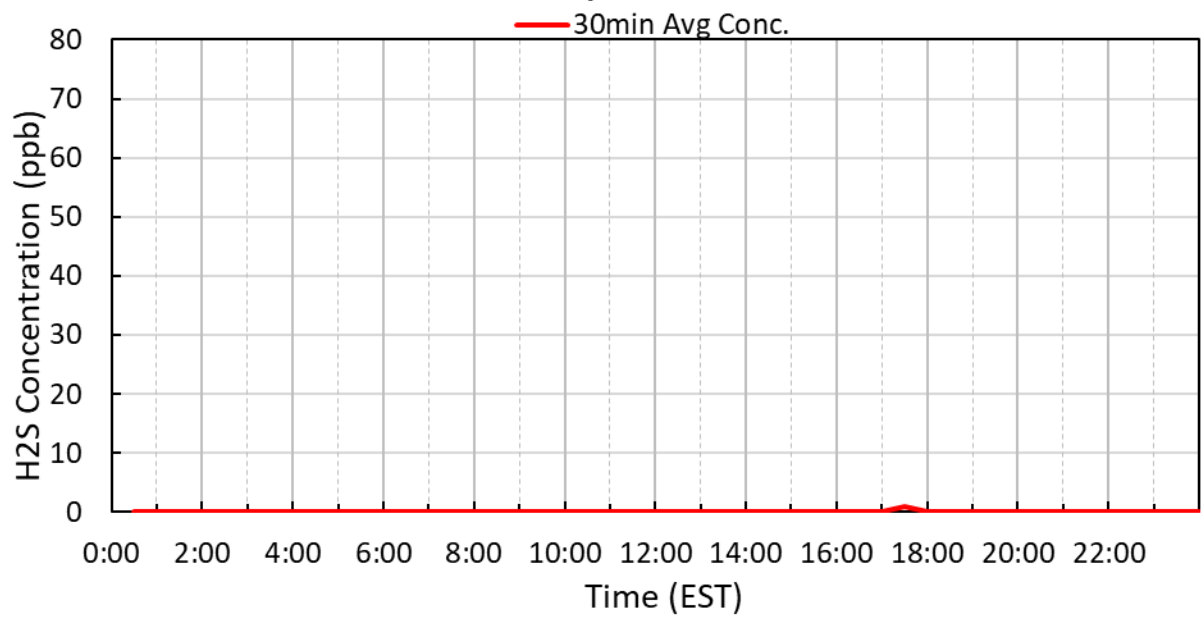
The five stand-alone H<sub>2</sub>S monitoring stations correlate with five previous EPA's Viper monitoring system which includes areas to the north-northeast and south-southwest of the New-Indy Catawba Mill.

Winds were predominantly coming from the south-southeast, south, south-southwest, and southwest direction throughout the day at 1 to 5 mph.

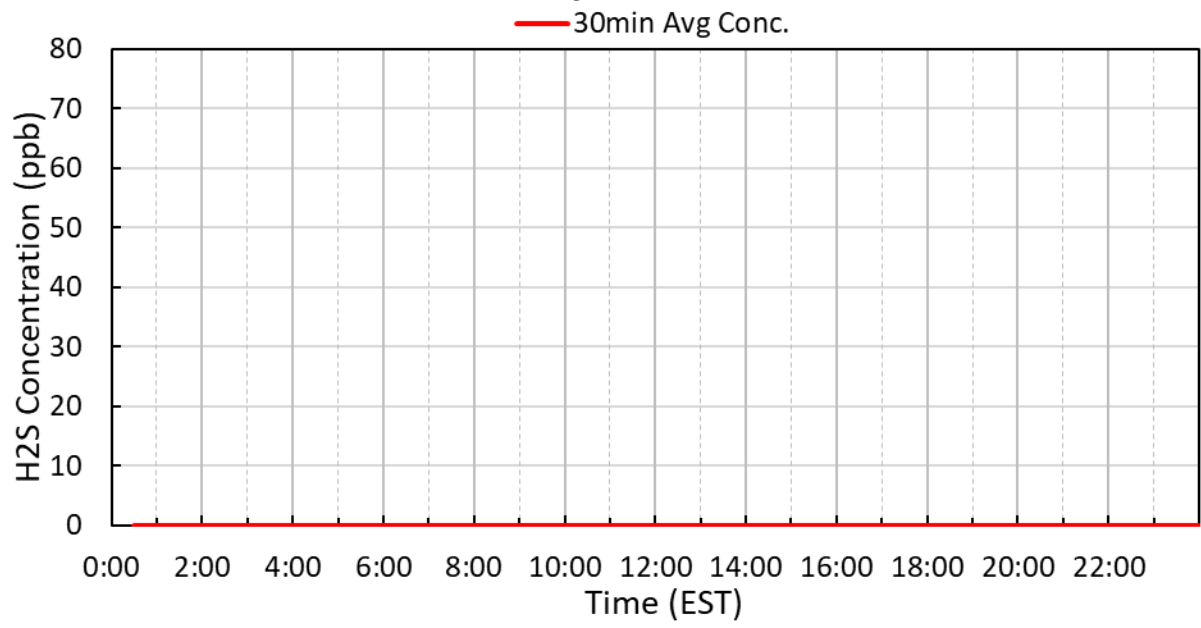
See wind rose diagram with aerial map figure for full wind data during this reporting period.



### Treetops - 11/7/2023

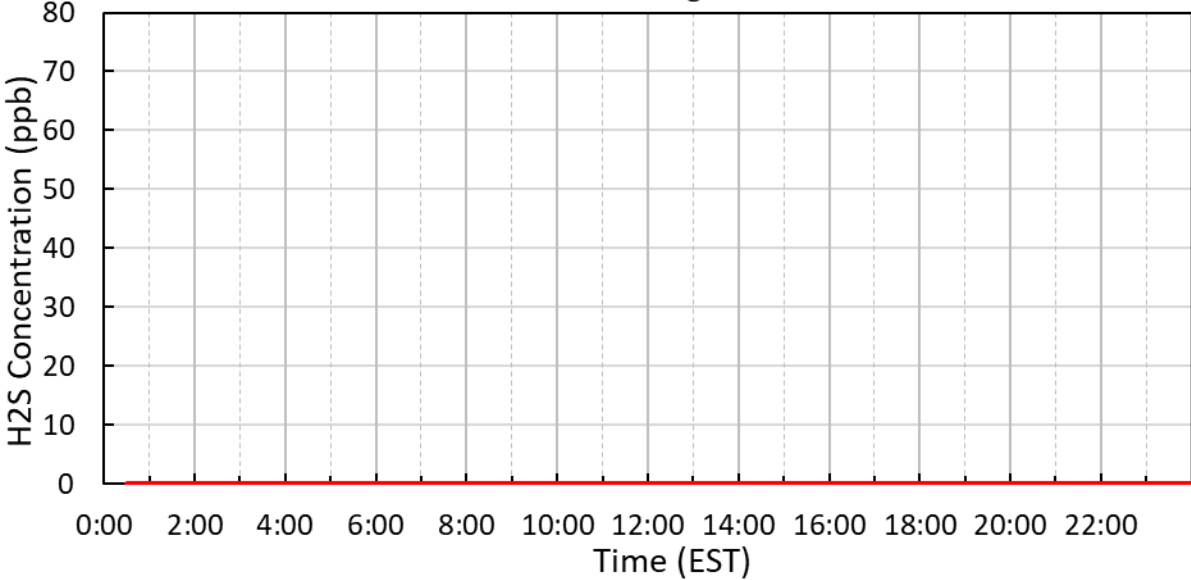


### Liberty Hill - 11/7/2023



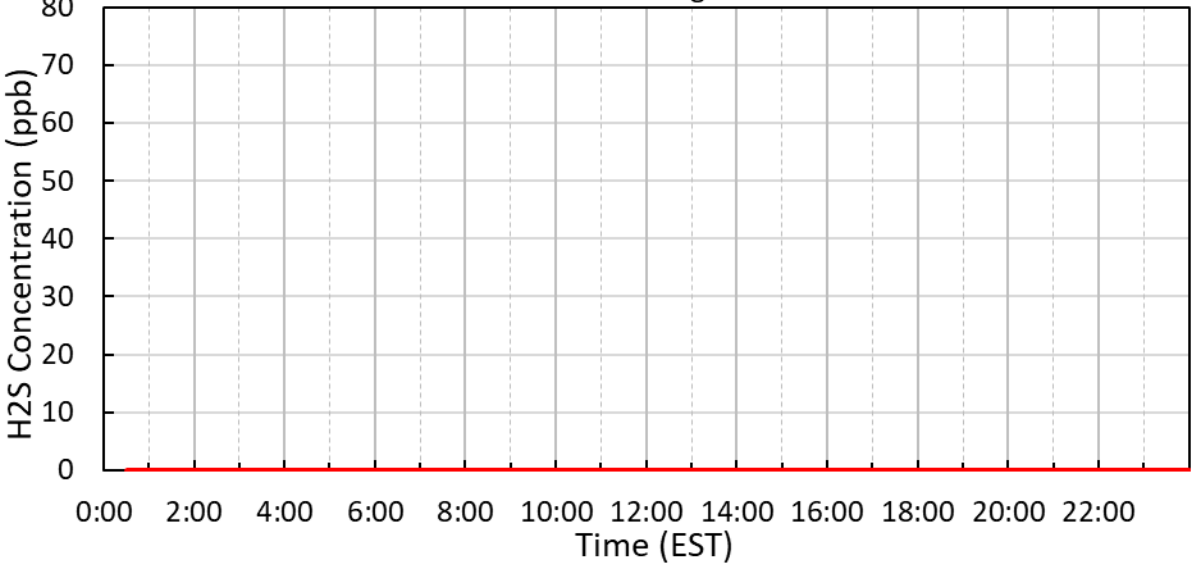
**Riverchase - 11/7/2023**

— 30min Avg Conc.



**Millstone Creek - 11/7/2023**

— 30min Avg Conc.



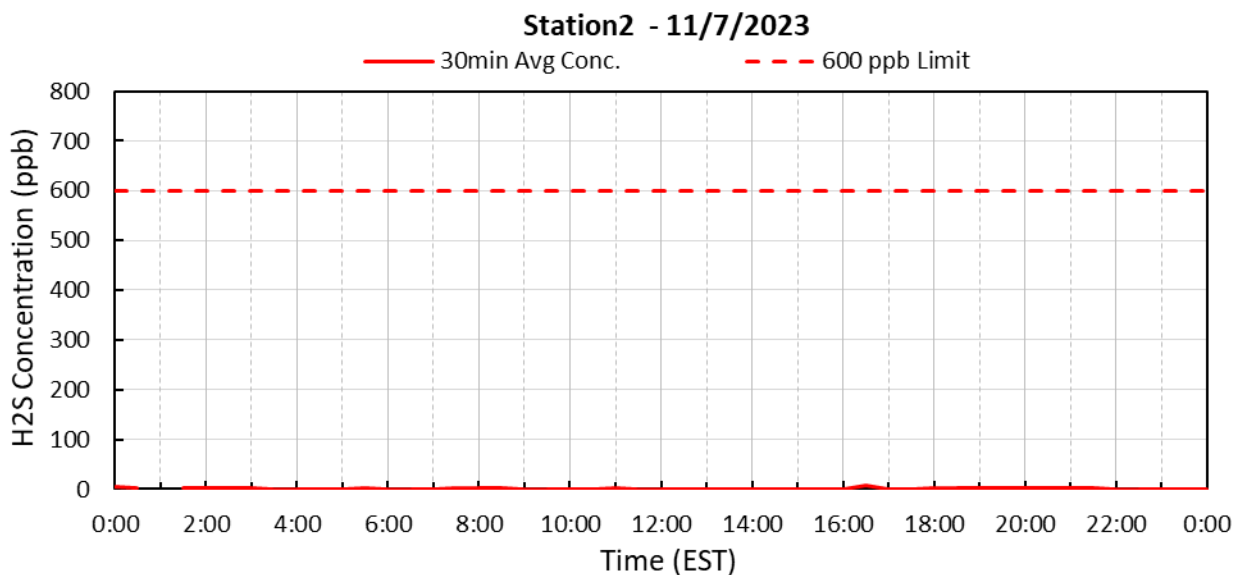
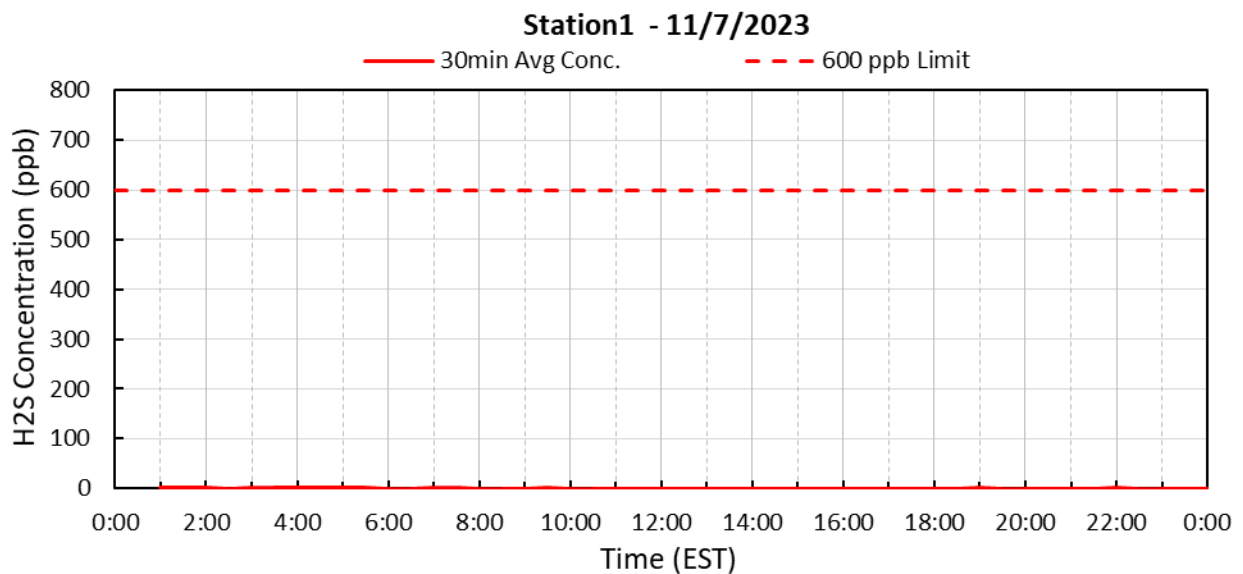
## Period H<sub>2</sub>S Monitoring Hydrogen Sulfide Onsite Monitors

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

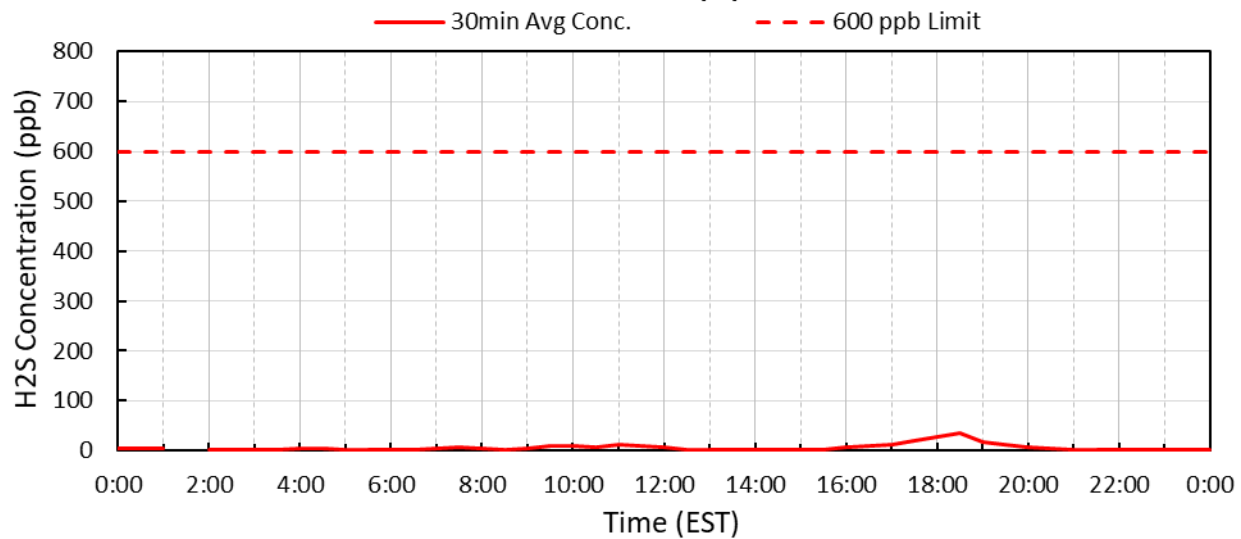
Depending on wind direction, the H<sub>2</sub>S measured at the onsite fence line locations may not exit the mill property at reported concentrations. Wind directions from offsite locations, blowing onto mill property, will disperse ambient concentrations to lower levels prior to exiting the plant site.

Winds were predominantly coming from the south-southeast, south, south-southwest, and southwest direction throughout the day at 1 to 5 mph.

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



### Station3 - 11/7/2023



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
11/7/2023 0:30	AX	2.4	230	3.1	0.4	41	4.9	0.3	57
11/7/2023 1:00	0.6	2.1	212	AX	0.3	13	4.4	0.2	2
11/7/2023 1:30	0.5	1.8	205	1.9	0.2	19	AX	0.2	29
11/7/2023 2:00	0.4	1.9	203	1.5	0.2	26	3.0	0.3	78
11/7/2023 2:30	0.2	1.6	197	1.2	0.2	7	2.3	0.2	354
11/7/2023 3:00	0.4	1.7	200	1.4	0.3	340	2.6	0.3	114
11/7/2023 3:30	0.4	1.5	205	1.0	0.2	2	2.6	0.3	357
11/7/2023 4:00	0.5	1.3	186	0.7	0.3	21	3.2	0.3	9
11/7/2023 4:30	0.4	1.7	194	0.9	0.4	7	3.6	0.2	314
11/7/2023 5:00	0.4	1.3	193	1.0	0.3	335	2.3	0.2	128
11/7/2023 5:30	0.5	1.3	197	1.1	0.2	292	1.6	0.2	198
11/7/2023 6:00	0.2	1.1	198	1.0	0.2	332	1.3	0.2	351
11/7/2023 6:30	0.2	1.0	195	0.7	0.6	3	1.0	0.3	4
11/7/2023 7:00	0.5	0.7	169	1.0	0.6	43	5.2	0.5	66
11/7/2023 7:30	0.4	2.2	189	2.2	0.4	256	8.0	0.4	154
11/7/2023 8:00	0.2	0.9	219	1.9	0.3	309	5.5	0.2	147
11/7/2023 8:30	0.2	1.9	213	1.8	1.2	251	2.8	1.0	185
11/7/2023 9:00	0.2	3.0	210	0.8	2.1	230	5.4	1.8	193
11/7/2023 9:30	0.6	3.2	199	0.8	3.0	217	9.8	1.6	189
11/7/2023 10:00	0.2	3.7	192	0.7	3.2	221	9.9	1.7	181
11/7/2023 10:30	0.2	2.7	195	0.6	3.3	230	7.3	2.1	188
11/7/2023 11:00	0.2	2.5	207	1.2	3.2	224	10.8	2.1	190
11/7/2023 11:30	0.2	2.5	197	0.6	2.8	201	9.4	2.0	186
11/7/2023 12:00	0.2	2.9	189	0.5	3.0	237	6.2	2.0	178
11/7/2023 12:30	0.2	3.0	111	0.6	2.5	228	2.3	2.1	118
11/7/2023 13:00	0.2	2.1	74	0.8	2.5	227	1.5	1.7	150
11/7/2023 13:30	0.2	3.6	191	0.7	2.6	269	1.0	2.3	199
11/7/2023 14:00	0.2	3.6	173	0.6	3.0	222	1.0	2.6	209
11/7/2023 14:30	0.2	3.4	179	0.6	3.5	231	0.5	2.4	192
11/7/2023 15:00	0.2	5.0	192	0.6	3.8	227	0.8	2.8	193
11/7/2023 15:30	0.2	4.6	207	0.8	3.8	231	2.2	3.1	204
11/7/2023 16:00	0.2	4.9	215	1.0	4.8	224	7.2	2.8	222
11/7/2023 16:30	0.2	5.1	207	8.3	4.0	222	10.3	2.4	223
11/7/2023 17:00	0.2	4.5	205	0.4	2.9	206	12.8	1.1	202
11/7/2023 17:30	0.2	2.4	184	0.4	0.5	102	18.7	0.4	235
11/7/2023 18:00	0.2	2.2	200	1.1	0.3	84	28.6	0.3	307
11/7/2023 18:30	0.2	3.5	207	1.2	0.6	235	35.8	0.7	216
11/7/2023 19:00	0.4	2.2	192	1.5	0.4	159	17.8	0.6	192
11/7/2023 19:30	0.2	5.3	193	1.3	0.6	51	12.8	0.3	8
11/7/2023 20:00	0.2	1.8	175	2.1	0.2	196	7.5	0.2	355
11/7/2023 20:30	0.2	2.1	198	1.9	0.2	112	3.7	0.2	83
11/7/2023 21:00	0.2	0.8	120	1.6	0.2	82	2.7	0.2	79
11/7/2023 21:30	0.2	1.1	158	1.3	0.3	58	1.8	0.4	91
11/7/2023 22:00	0.7	1.2	147	0.9	0.2	61	0.8	0.5	75
11/7/2023 22:30	0.2	1.6	190	0.7	0.3	29	0.7	0.3	78
11/7/2023 23:00	0.2	1.5	207	0.7	0.2	28	0.7	0.4	62
11/7/2023 23:30	0.2	0.8	180	0.6	0.2	21	0.6	0.3	89
11/8/2023 0:00	0.2	1.4	190	0.6	0.3	52	0.7	0.3	80



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