Air Monitoring Summary Tables

The table below summarizes monitoring data collected using a portable wireless remote monitoring system.
All times in Easter Standard Time (EST).

From: **6/30/21 12:00 am** ***To:*** **6/30/21 11:59 pm**

Offsite Monitors

Instrument	Analyte	ATSDR MRL 14-day Limit Reached?	Concentration Range Detected[a]	24-hr Average[a]	7-day Average	ATSDR 14-day MRL
Catawba Headstart						
Acrulog PPB	H_2S	No	0 – 0 ppb	0.00 ppb	Not Available	70 ppb
Treetops						
Acrulog PPB	H_2S	No	0 – 0 ppb	0.00 ppb	Not Available	70 ppb
Liberty Hill						
Acrulog PPB	H_2S	No	0 – 3 ppb	0.02 ppb	Not Available	70 ppb
River Chase						
Acrulog PPB	H_2S	No	0 – 4 ppb	0.15 ppb	Not Available	70 ppb
Millstone Creek – Installation Pending						
Acrulog PPB	H_2S	No	---	---	---	70 ppb

[a] Based on 10-minute averages.

Onsite Fenceline Monitors

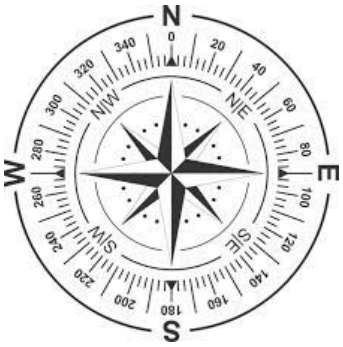
Instrument	Analyte	30-min AEGL Reached?	Concentration Range Detected[b]	24-hr Average[b]	7-day Average	30-min AEGL
Station 1						
TAPI Analyzer	H_2S	No	1.0 – 7.1 ppb	2.0 ppb	17.0	600 ppb
Station 2						
TAPI Analyzer	H_2S	No	0.2 – 9.8 ppb	1.8 ppb	0.5	600 ppb
Station 3						
TAPI Analyzer	H_2S	No	0.2 – 25.1 ppb	4.3 ppb	0.9	600 ppb

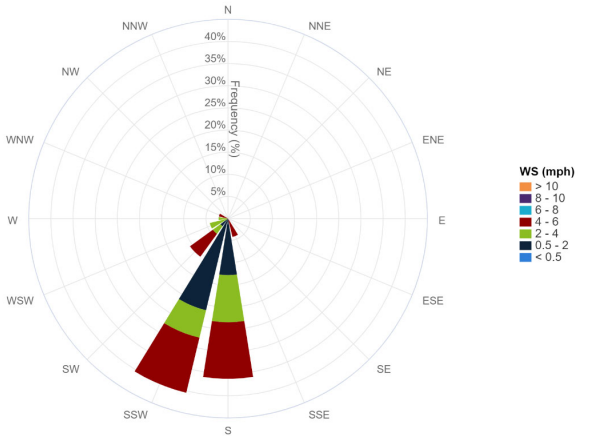
[b] Based on 30-minute averages.

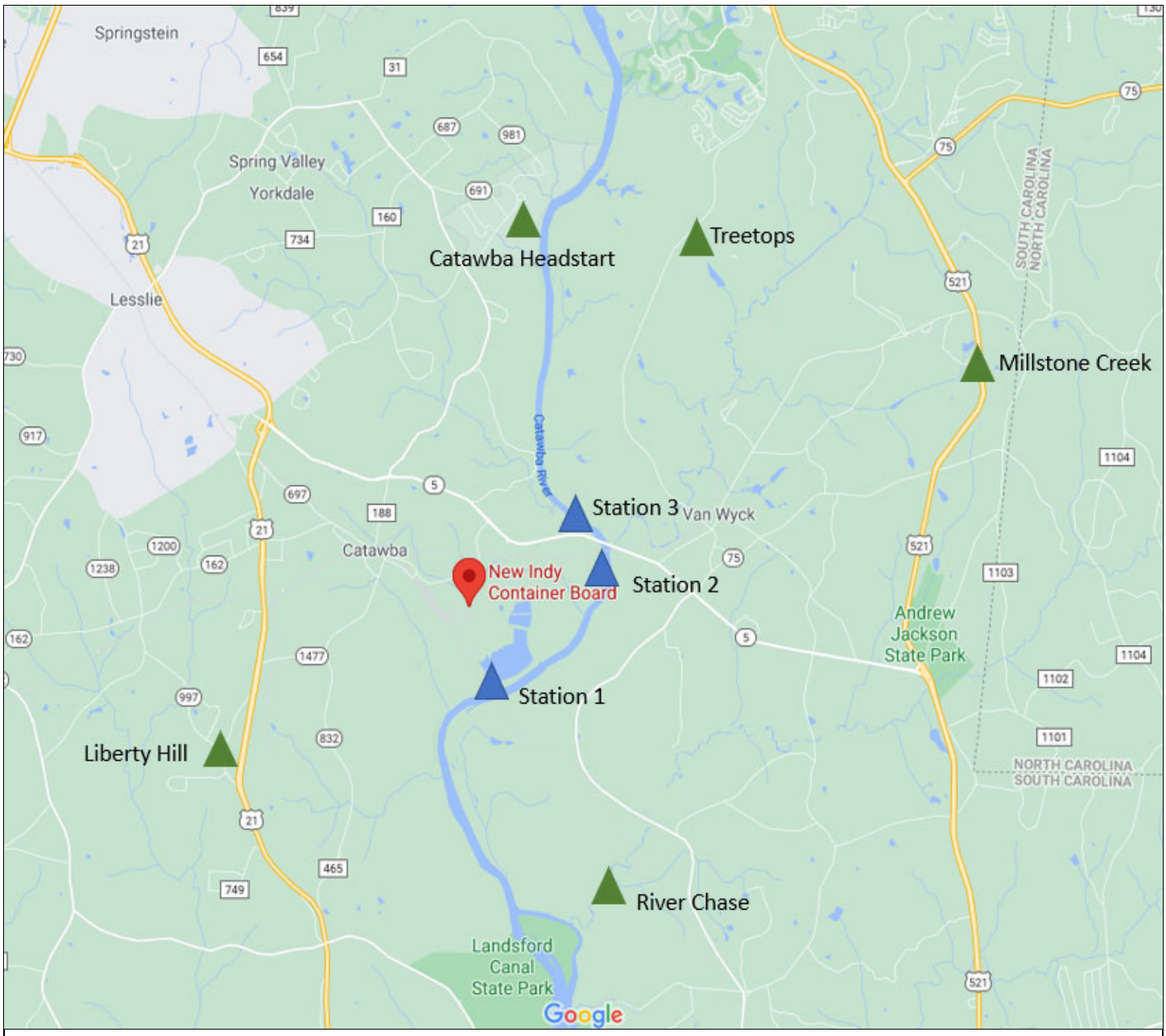
Notes:

ATSDR MRL	Agency for Toxic Substances and Disease Registry Minimal Risk Level (MRL)
AEGL	EPA Acute Exposure Guidelines Levels
H_2S	Hydrogen Sulfide
TAPI	Teledyne API H_2S Analyzer
hr	Hour
min	Minute
ppb	Parts per billion
MRL Limit	Limit defined as a 14-day average value.

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

Period H_2S Monitoring
Hydrogen Sulfide Offsite Monitors

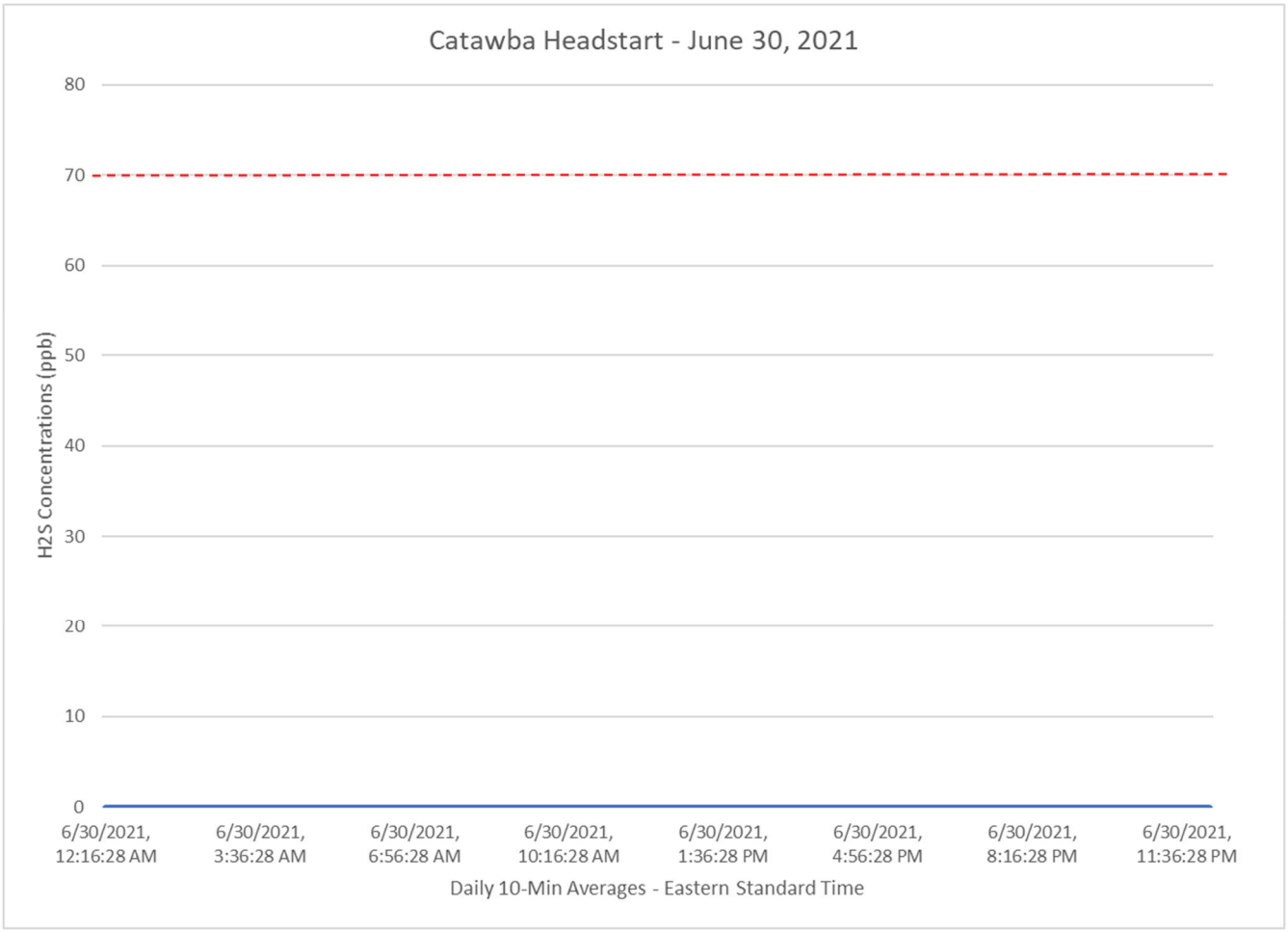
Below are graphs for offsite locations where hydrogen sulfide (H_2S) was detected during the current reporting period.

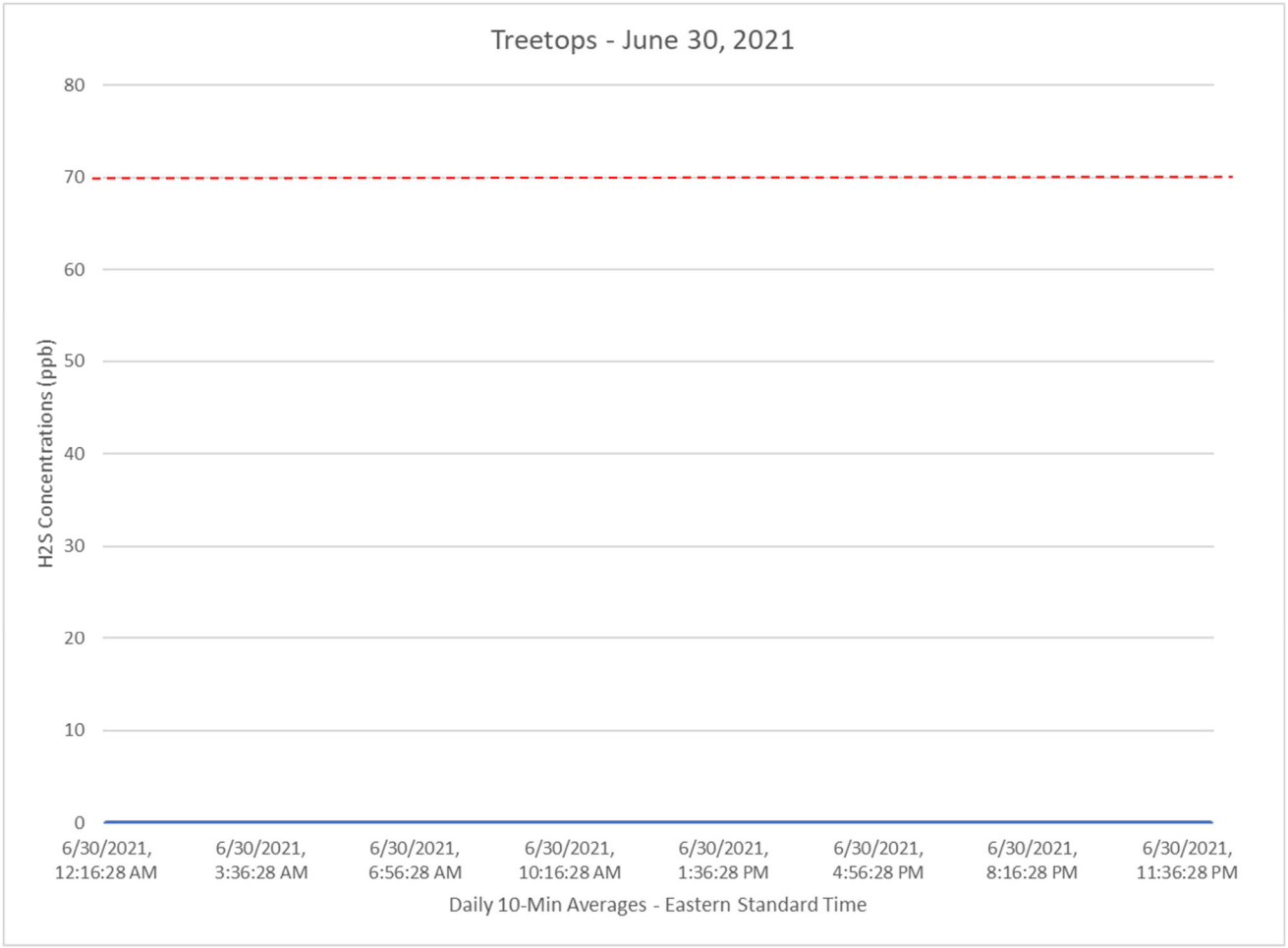
The five (fifth location being installed on July 1, 2021) stand-alone H_2S monitoring stations correlate with five of EPA's Viper monitoring system which includes areas to the north-northeast and south-southwest of the New-Indy Catawba Mill.

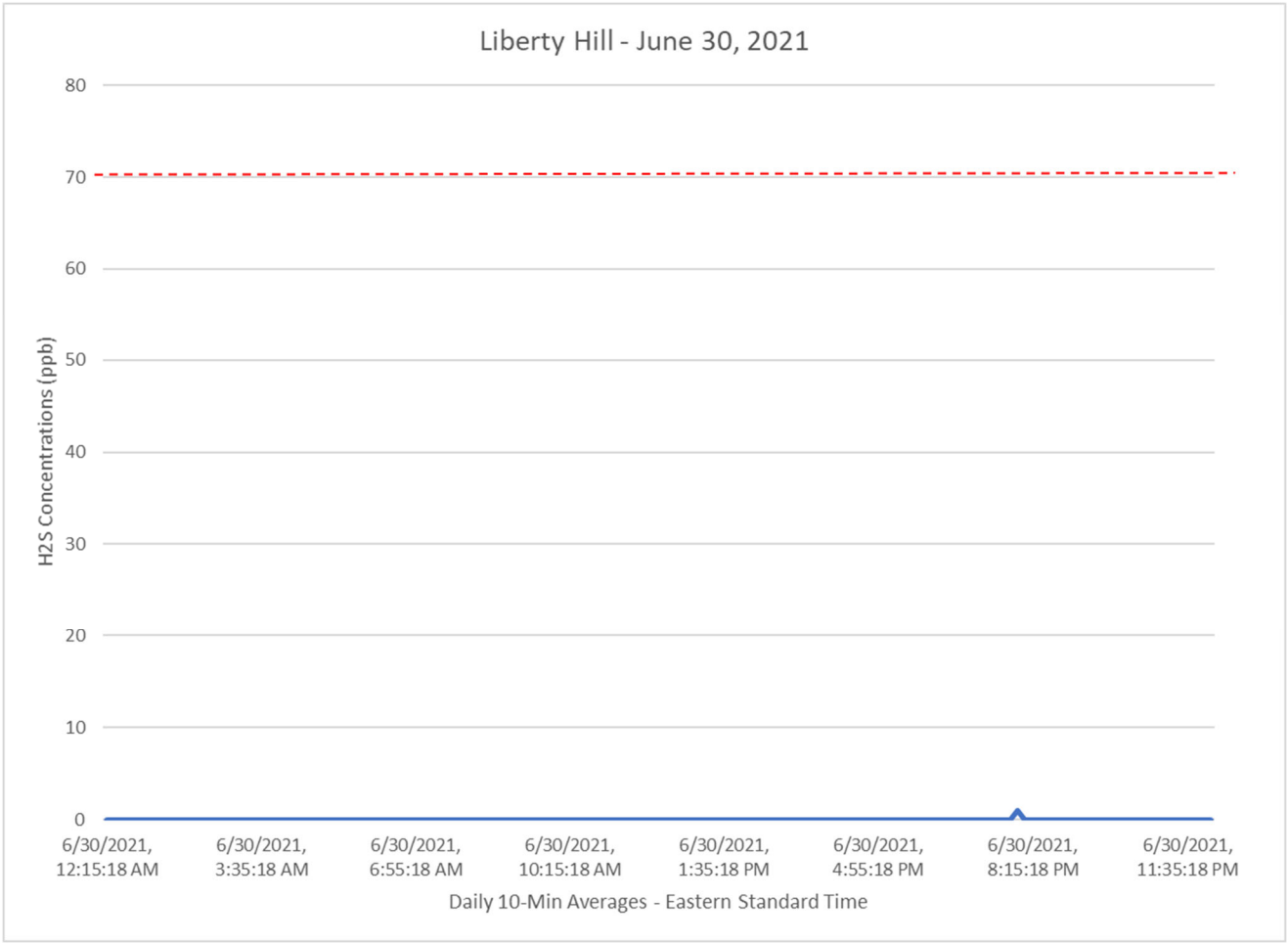
The prevailing wind direction for this report period were generally from the south to south-southwest throughout the day. Winds were light in the morning at 1-2 miles per hour (mph) then increased to 3 to 6 mph during the afternoon.

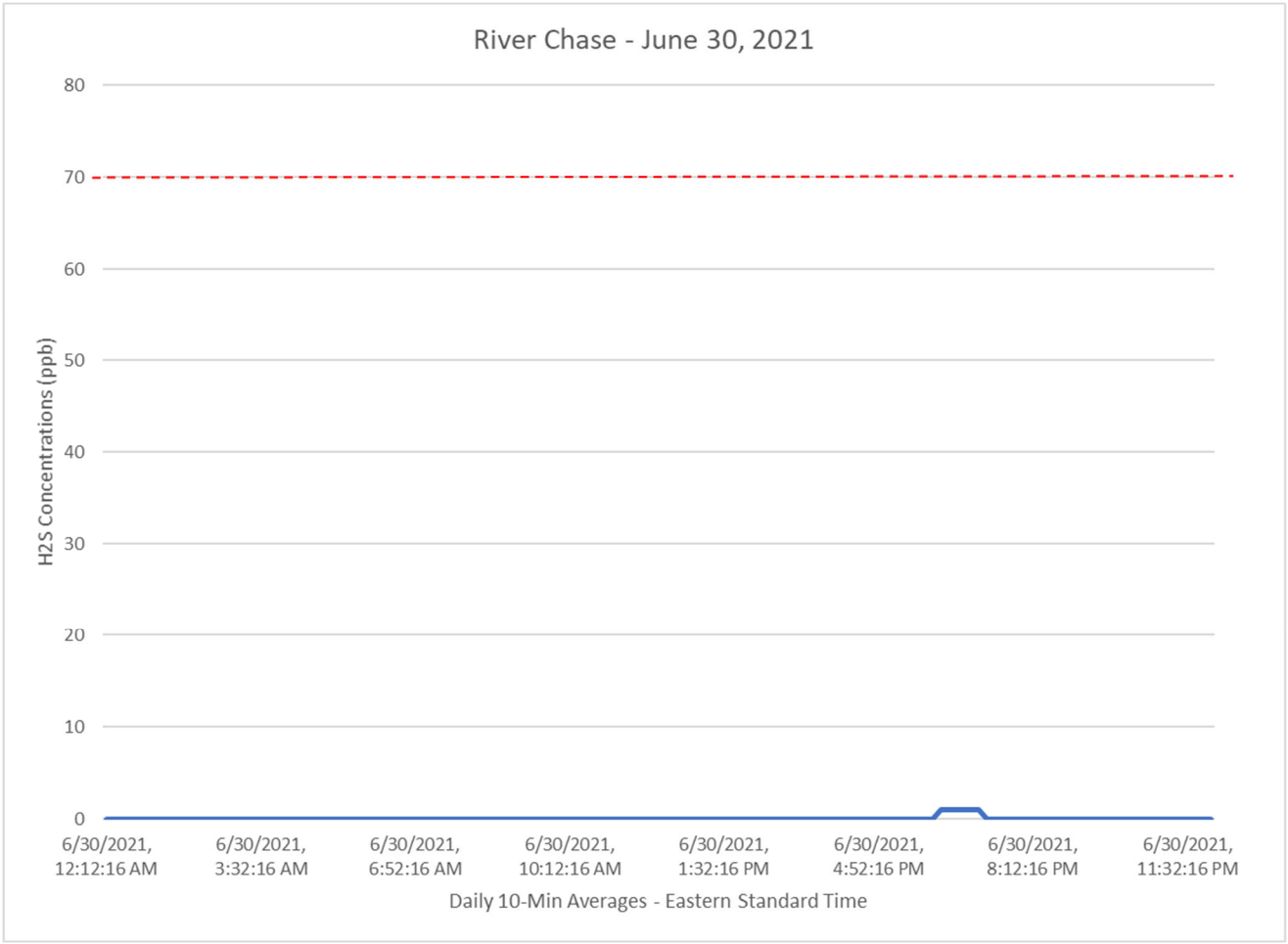
See wind rose diagram with aerial map figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion (ppb) during this reporting period: Catawba Headstart and Treetops.




Treetops - June 30, 2021
80
70
60
50
40
30
20
10
0
H2S Concentrations (ppb)
6/30/2021, 12:16:28 AM
6/30/2021, 3:36:28 AM
6/30/2021, 6:56:28 AM
6/30/2021, 10:16:28 AM
6/30/2021, 1:36:28 PM
6/30/2021, 4:56:28 PM
6/30/2021, 8:16:28 PM
6/30/2021, 11:36:28 PM
Daily 10-Min Averages - Eastern Standard Time


Liberty Hill - June 30, 2021
80
70
60
50
40
30
20
10
0
H2S Concentrations (ppb)
6/30/2021, 12:15:18 AM
6/30/2021, 3:35:18 AM
6/30/2021, 6:55:18 AM
6/30/2021, 10:15:18 AM
6/30/2021, 1:35:18 PM
6/30/2021, 4:55:18 PM
6/30/2021, 8:15:18 PM
6/30/2021, 11:35:18 PM
Daily 10-Min Averages - Eastern Standard Time


River Chase - June 30, 2021
80
70
60
50
40
30
20
10
0
H2S Concentrations (ppb)
6/30/2021, 12:12:16 AM
6/30/2021, 3:32:16 AM
6/30/2021, 6:52:16 AM
6/30/2021, 10:12:16 AM
6/30/2021, 1:32:16 PM
6/30/2021, 4:52:16 PM
6/30/2021, 8:12:16 PM
6/30/2021, 11:32:16 PM
Daily 10-Min Averages - Eastern Standard Time

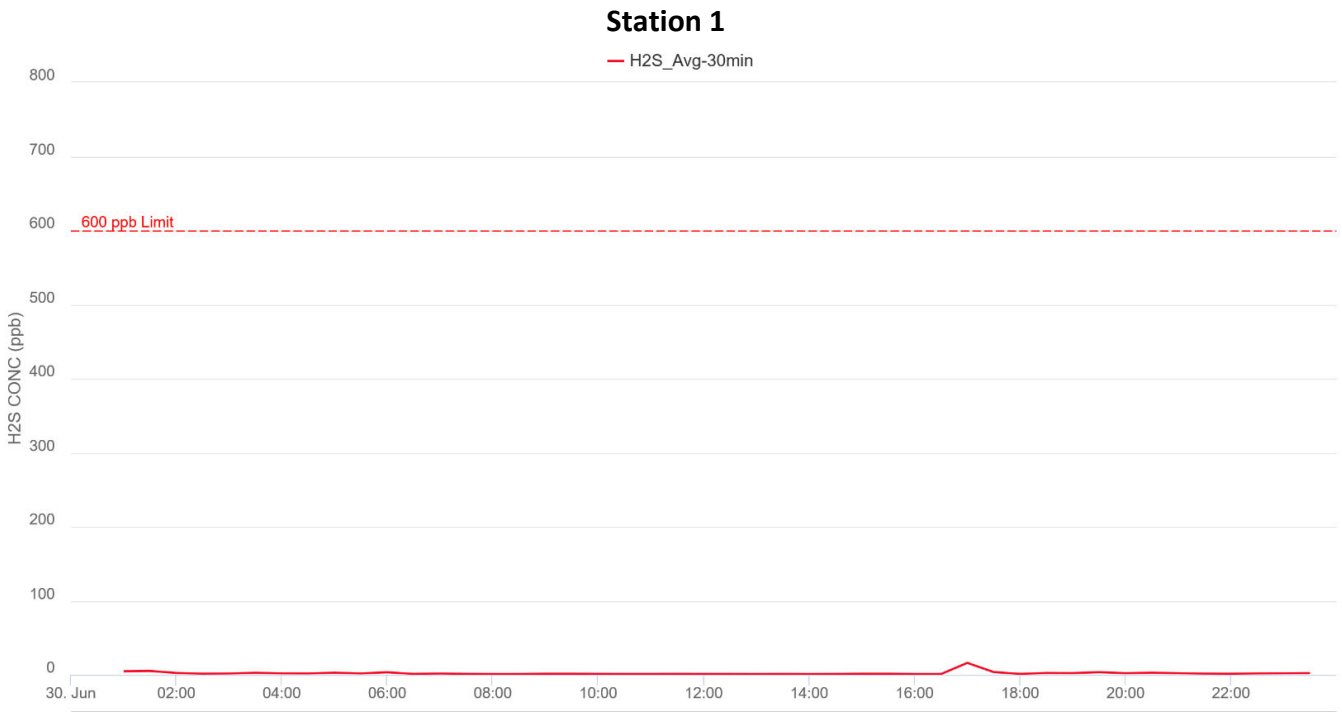
Period H_2S Monitoring
Hydrogen Sulfide Onsite Monitors

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

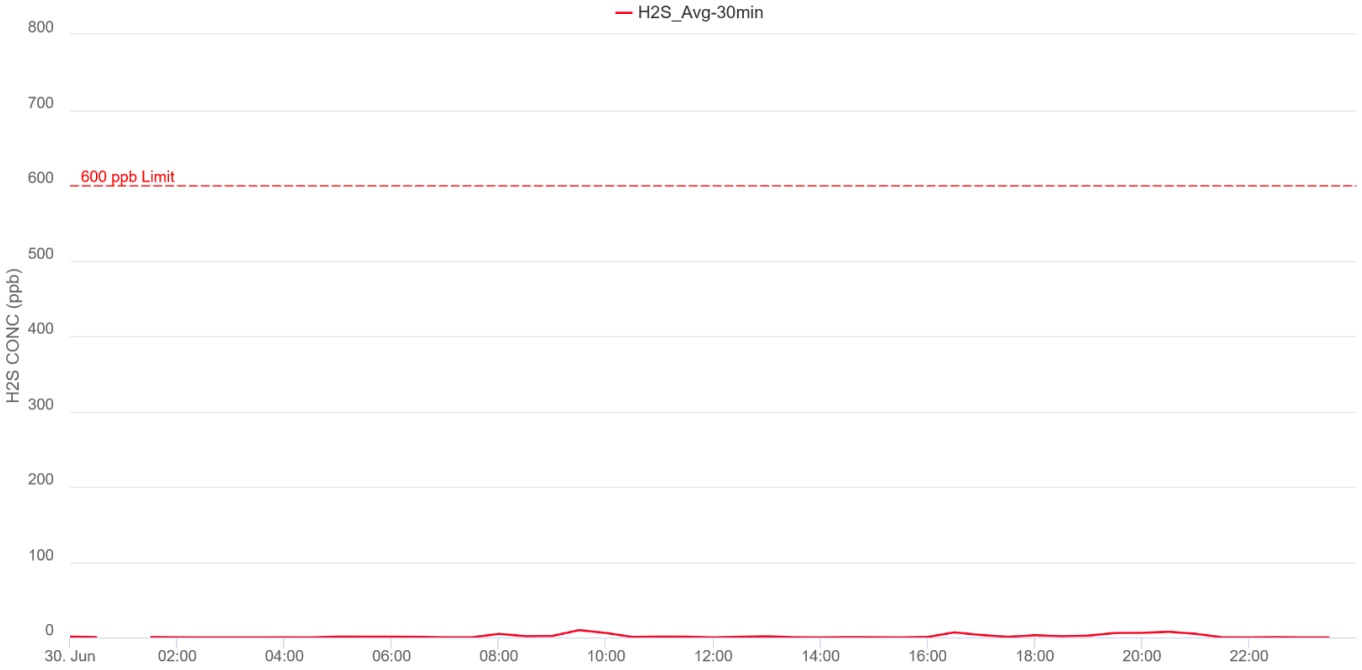
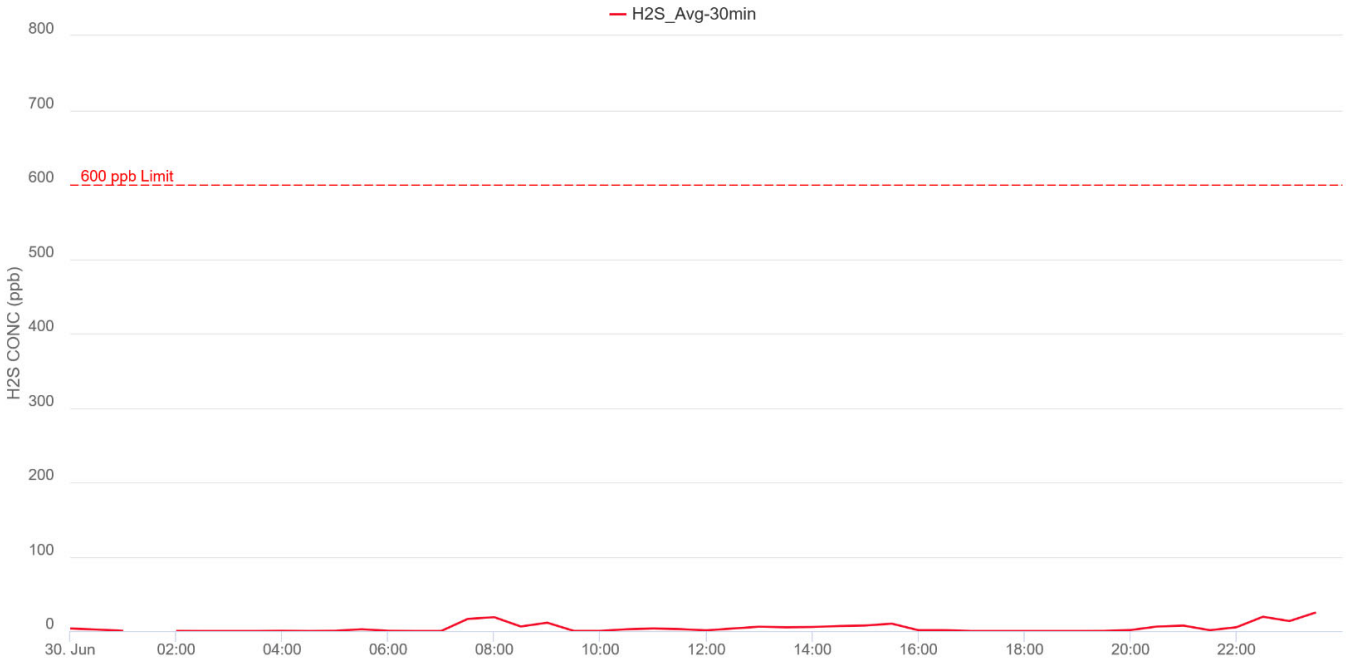
Depending on wind direction, the H_2S measured at the onsite fence line locations may not exit mill property at reported concentrations. Wind directions from offsite locations, blowing onto mill property, will disperse ambient concentrations to lower levels prior to exiting the plant site.

The prevailing wind direction for this report period were generally from the south to south-southwest throughout the day. Winds were light in the morning at 1-2 miles per hour (mph) then increased to 3 to 6 mph during the afternoon.

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



Station 2



Station 3