Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

Project Name: **H₂S in South and North Carolina**

From:	**6/19/21**		*To:*	**6/20/21**
	12:01 AM			**12:01 AM**

William-Lytle Place

Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	26827	0	0 - 0 ppb	0 ppb	70 ppb

River Chase

Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	26899	0	0 - 0 ppb	0 ppb	70 ppb

Millstone Creek

Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 3	H2S	No	26019	6472	0 - 9 ppb	0.82 ppb	70 ppb

Sun City

Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 4	H2S	No	26957	4384	0 - 18 ppb	1.17 ppb	70 ppb

Bridgemill

Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 5	H2S	No	27475	2818	0 - 4 ppb	0.26 ppb	70 ppb

Tom Steven Rd

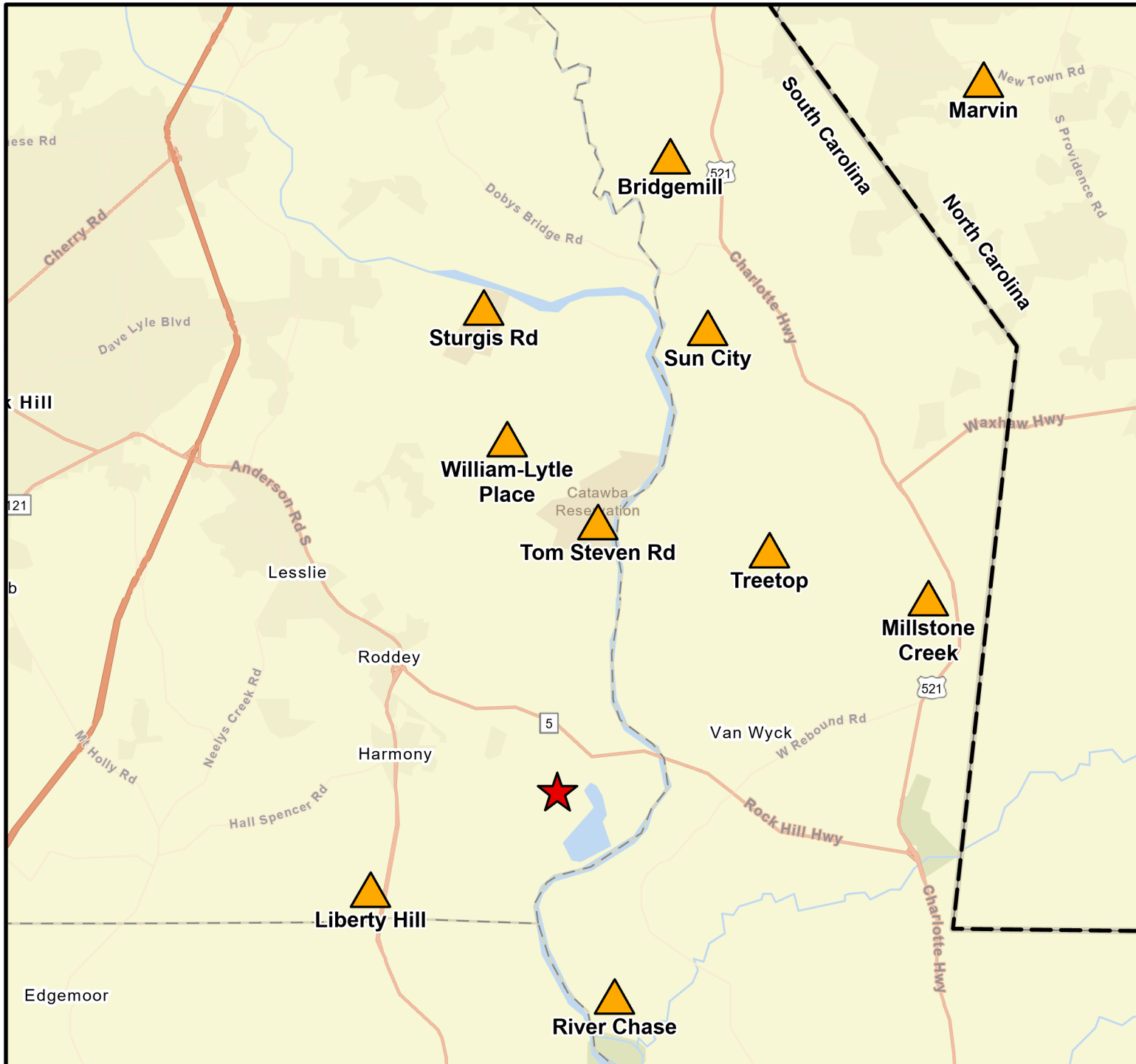| Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 6	H2S	No	25519	2470	0 - 9 ppb	0.25 ppb	70 ppb

Sturgis Rd

Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 7	H2S	No	26650	57	0 - 7 ppb	0.01 ppb	70 ppb

Marvin

Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 8	H2S	No	26671	1346	0 - 4 ppb	0.11 ppb	70 ppb

Treetop

Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 9	H2S	No	27241	3268	0 - 5 ppb	0.23 ppb	70 ppb

Liberty Hill

Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 10	H2S	No	27566	0	0 - 0 ppb	0 ppb	70 ppb

Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.
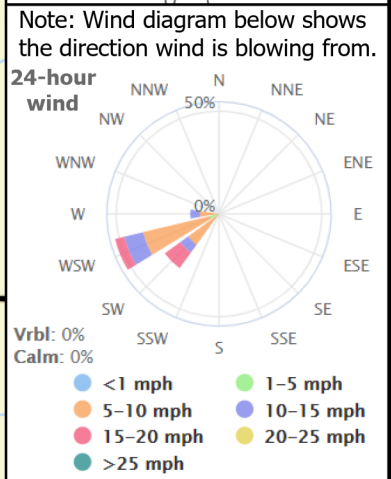
ATSDR MRL	Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
H₂S	Hydrogen Sulfide
hr	Hour
ppb	Parts per billion
MRL Exceedance	Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
SPM	Single Point Monitor
TWA	Time Weighted Avergage

Legend

△ Fixed Monitoring Locations

★ New Indy Containerboard
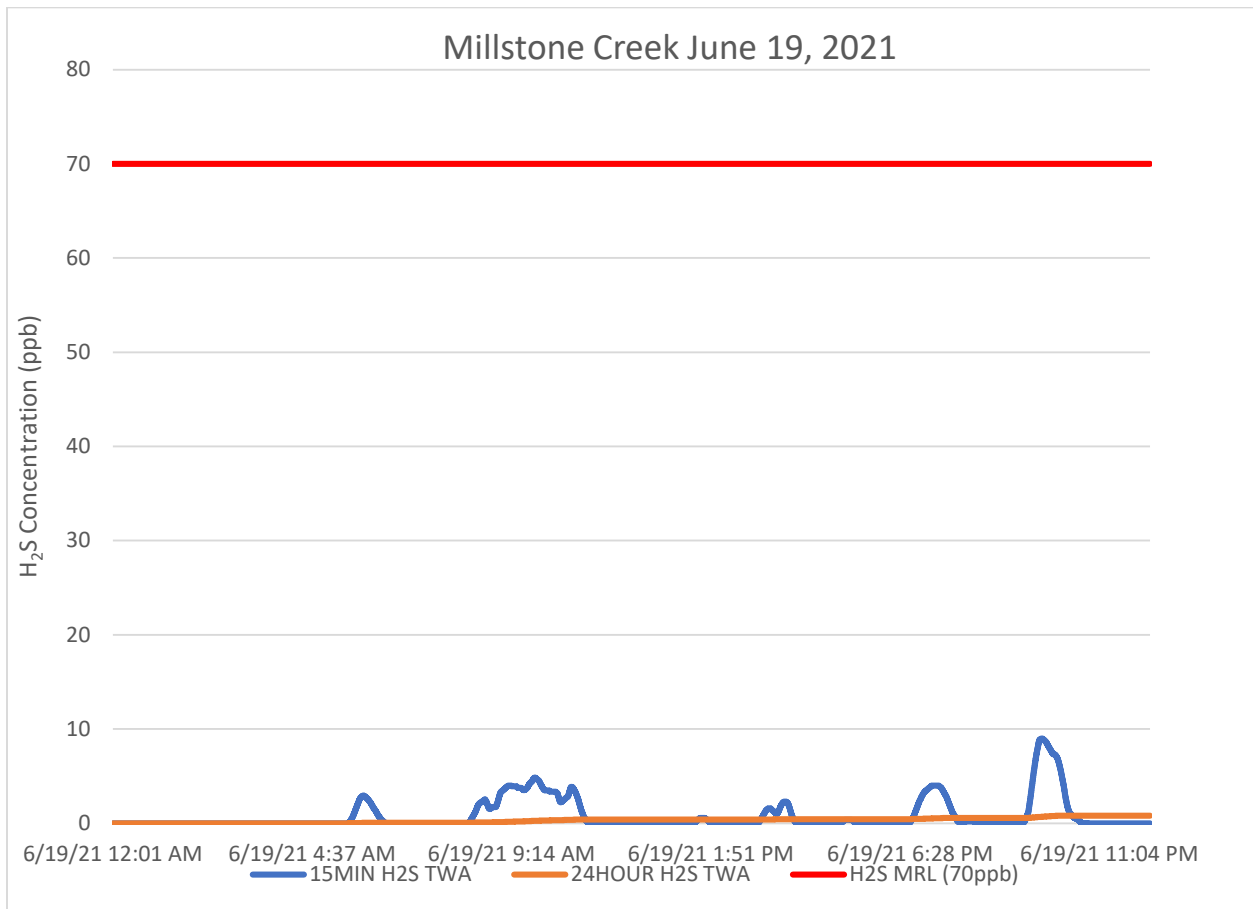
Map Source:
ESRI Streets

Note: Wind diagram below shows the direction wind is blowing from.

24-hour wind

Vrbl: 0%
Calm: 0%

- <1 mph
- 1–5 mph
- 5–10 mph
- 10–15 mph
- 15–20 mph
- 20–25 mph
- >25 mph

Map labels:

Marvin
Bridgemill
Sturgis Rd
Sun City
William-Lytle Place
Tom Steven Rd
Treetop
Millstone Creek
Liberty Hill
River Chase

South Carolina
North Carolina

New Town Rd
S Providence Rd
Cherry Rd
Dave Lyle Blvd
Dobys Bridge Rd
Charlotte Hwy
Waxhaw Hwy
Catawba Reservation
Anderson Rd S
Lesslie
Roddey
Harmony
Neelys Creek Rd
Mt Holly Rd
Hall Spencer Rd
Edgemoor
Van Wyck
W Rebound Rd
Rock Hill Hwy
521
5
k Hill

Kentucky
Virginia
Tennessee
North Carolina
Georgia
South Carolina
York

N W E S
0 1 2 3 4 Miles

NNW N NNE
NW NE
WNW ENE
W E
WSW ESE
SW SE
SSW S SSE
50%
0%

H₂S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.
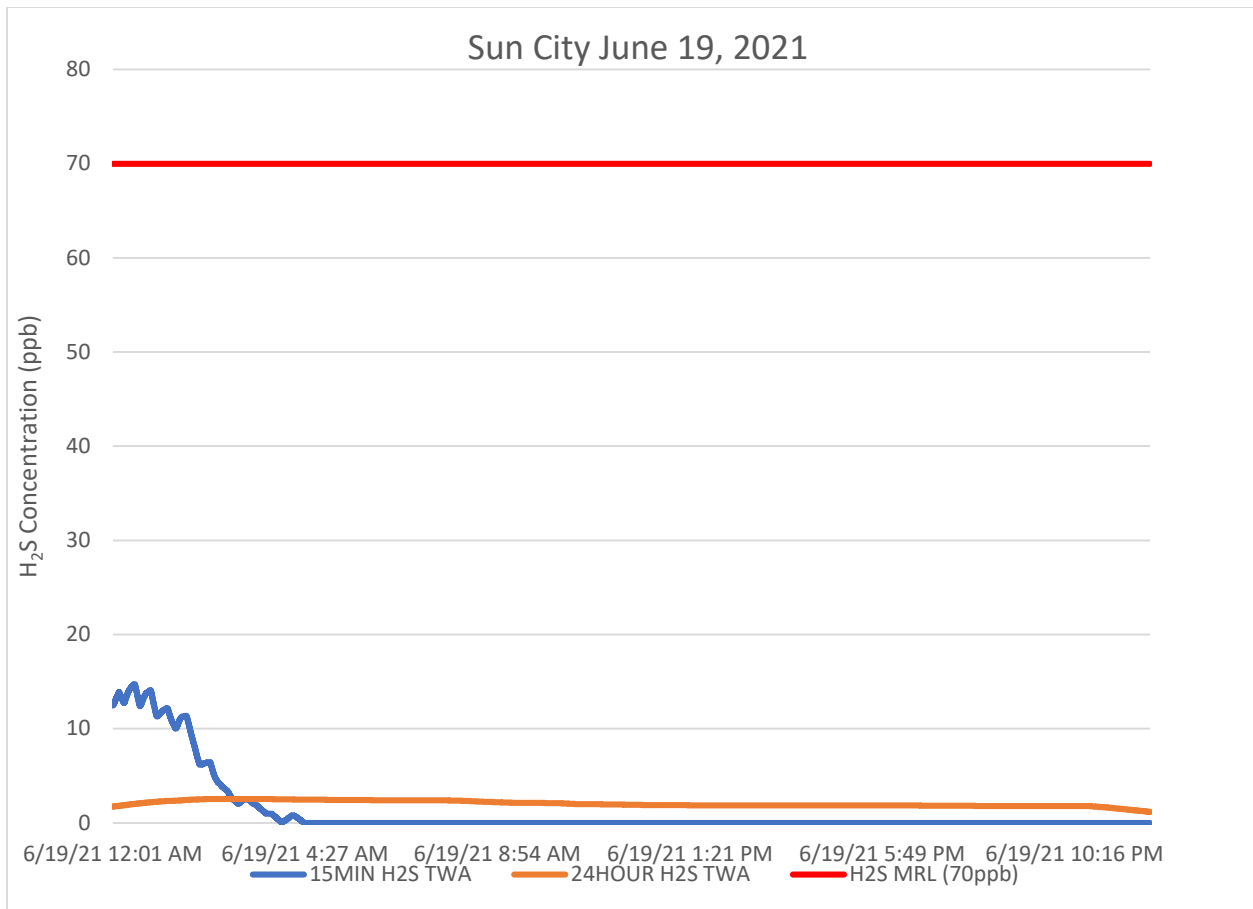
The prevailing wind directions for this reporting period were out of the west-southwest and southwest with smaller percentages out of the west. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: William Lytle, River Chase, and Liberty Hill.

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
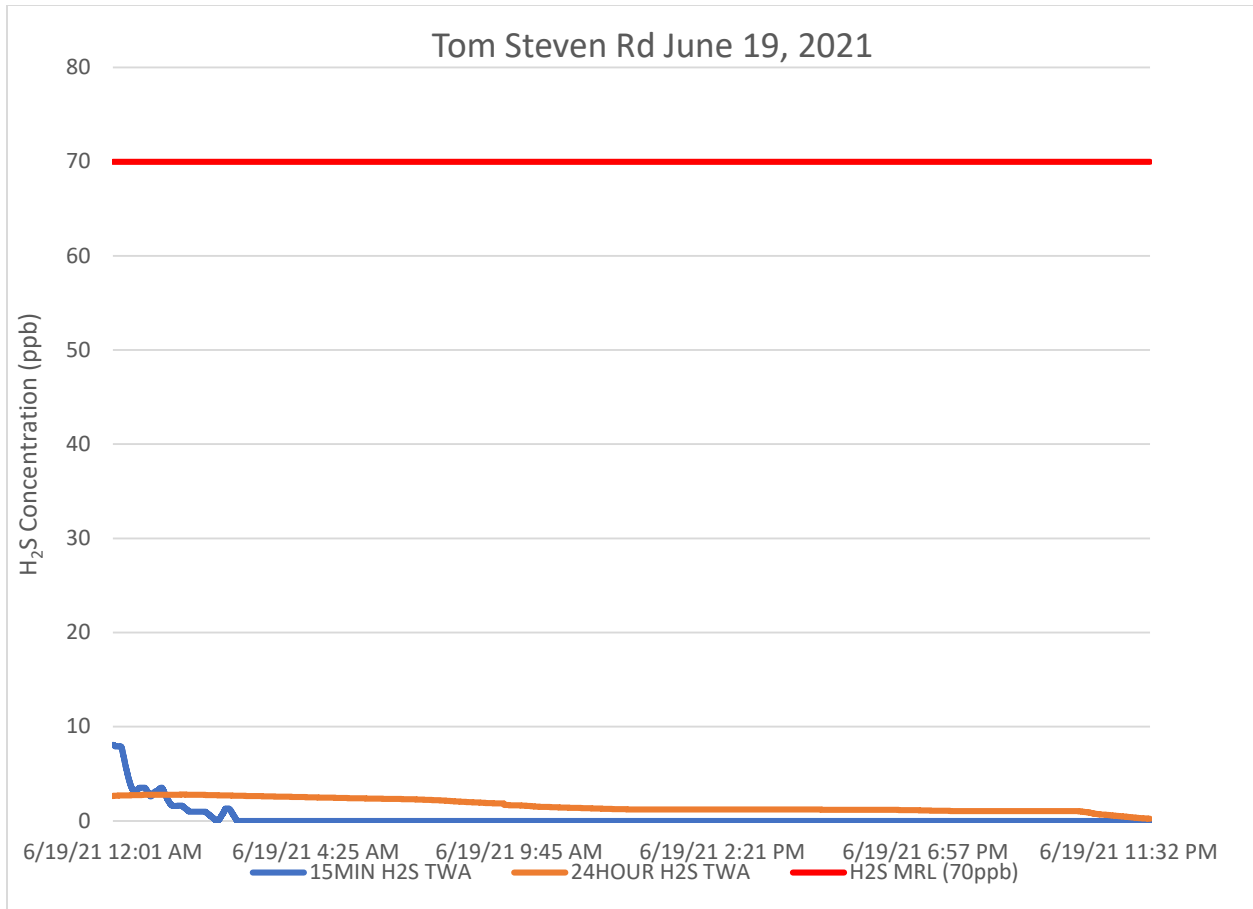ppb – Parts per billion
TWA – Time weighted average

Sun City June 19, 2021
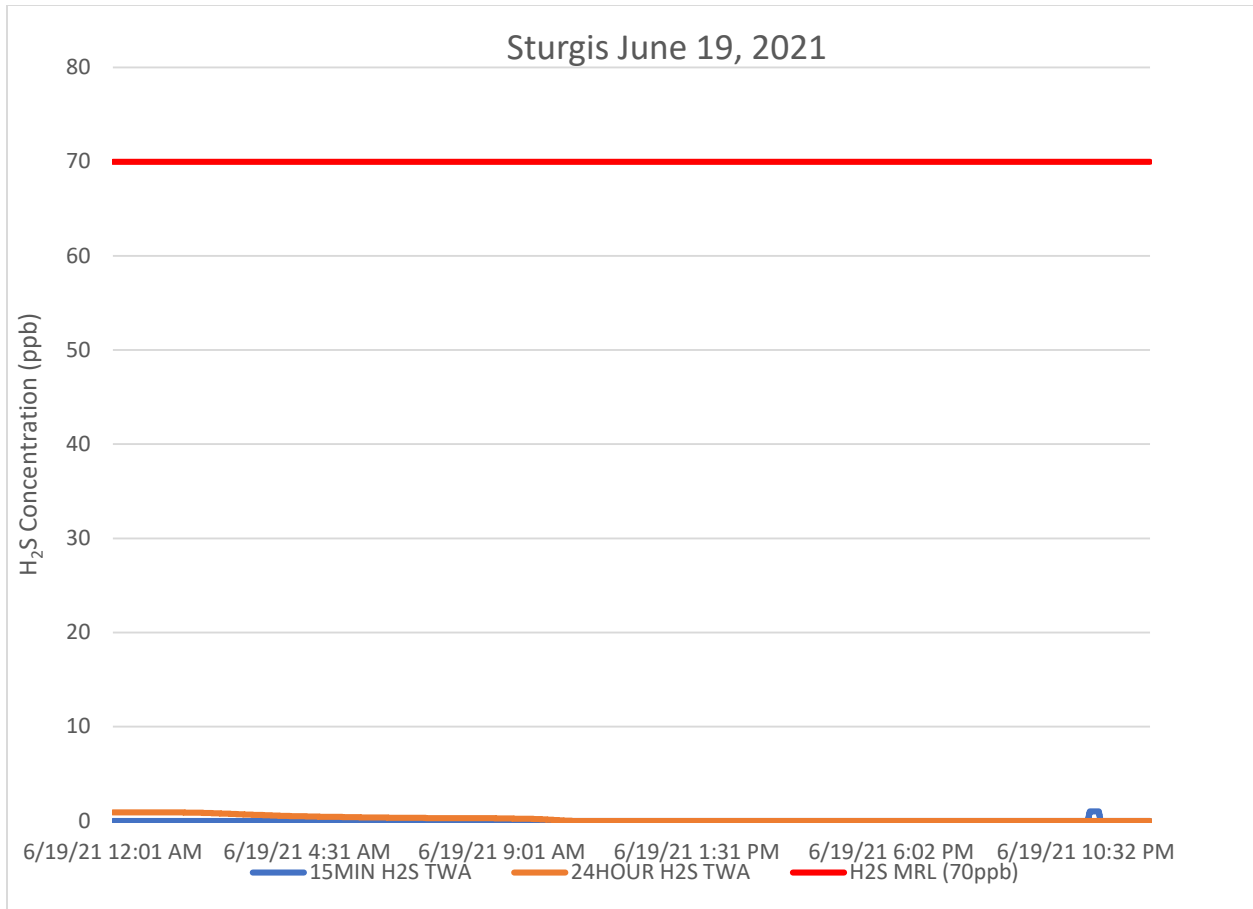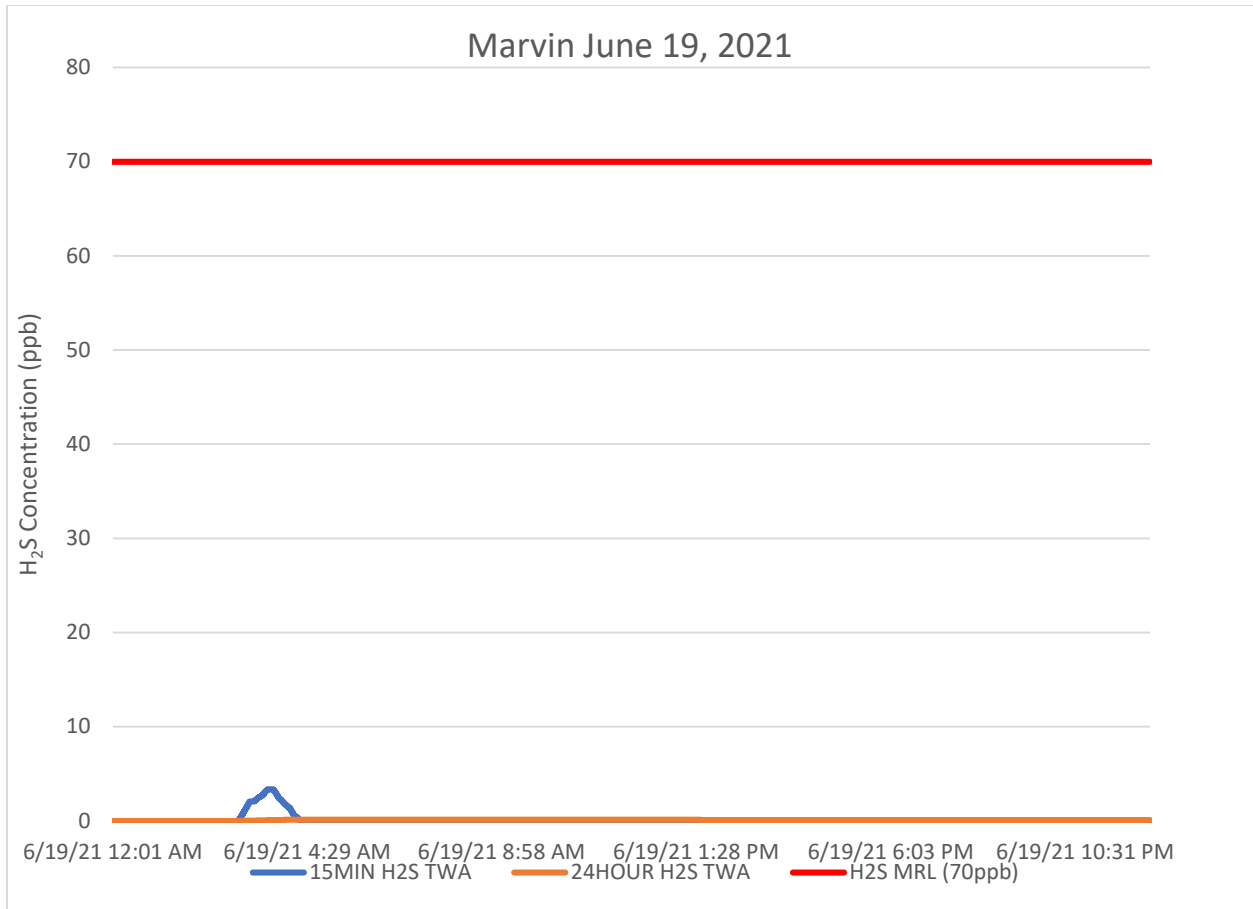
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average

Bridgemill June 19, 2021

Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average

Tom Steven Rd June 19, 2021

Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average

Sturgis June 19, 2021
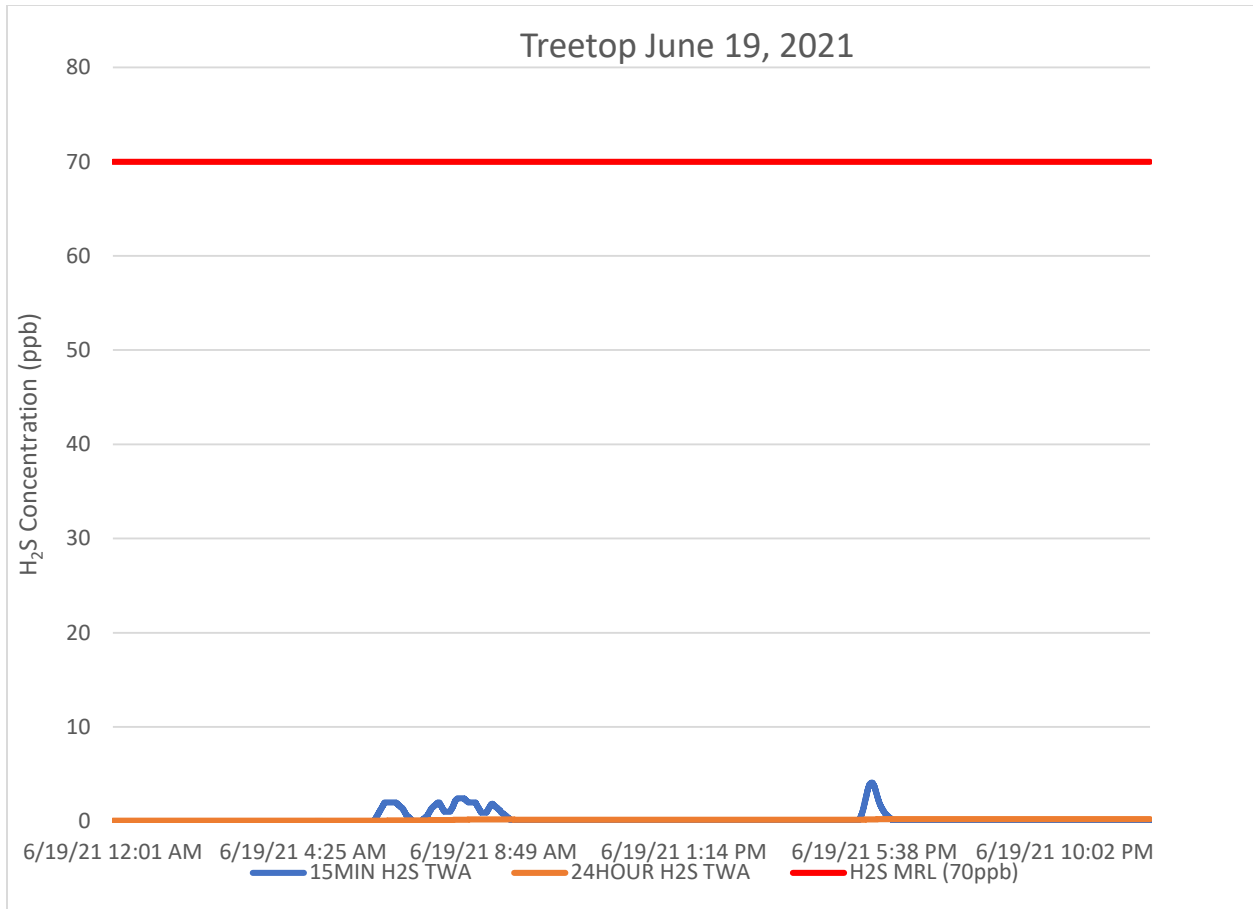

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average

Marvin June 19, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
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