

Report revised to remove incorrect notation in heading of the Catawba Express Summary Table.  
No data, summary results, or charts were revised.

## Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/1/21  
12:00 AM

**To:** 12/1/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H <sub>2</sub> S	No	2999	1539	0 - 8 ppb	1.82 ppb	70 ppb

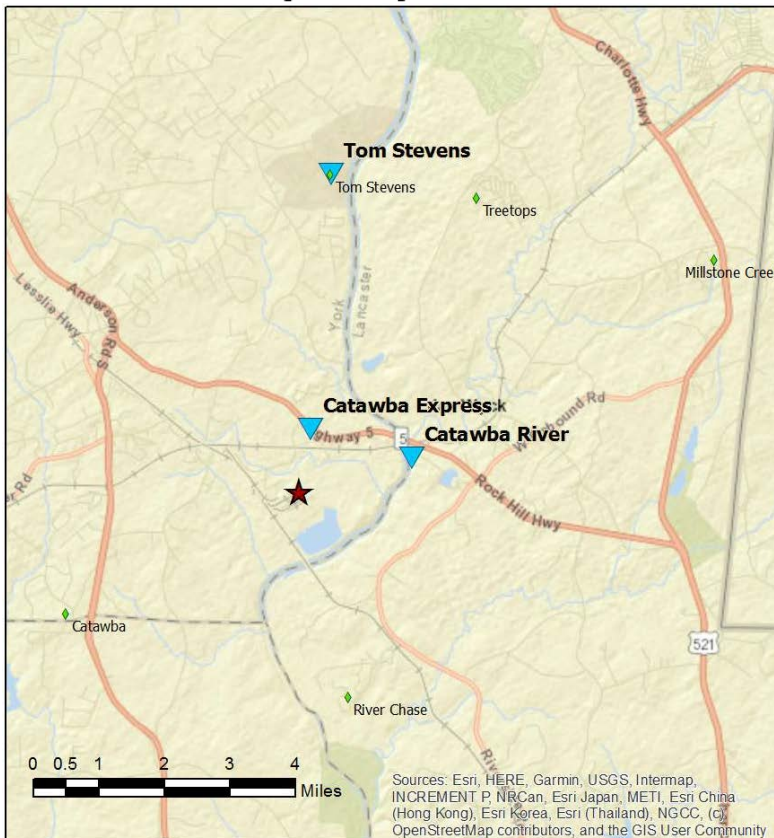
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H <sub>2</sub> S	No	3019	2030	0 - 24 ppb	5.18 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)
- H<sub>2</sub>S 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 Average



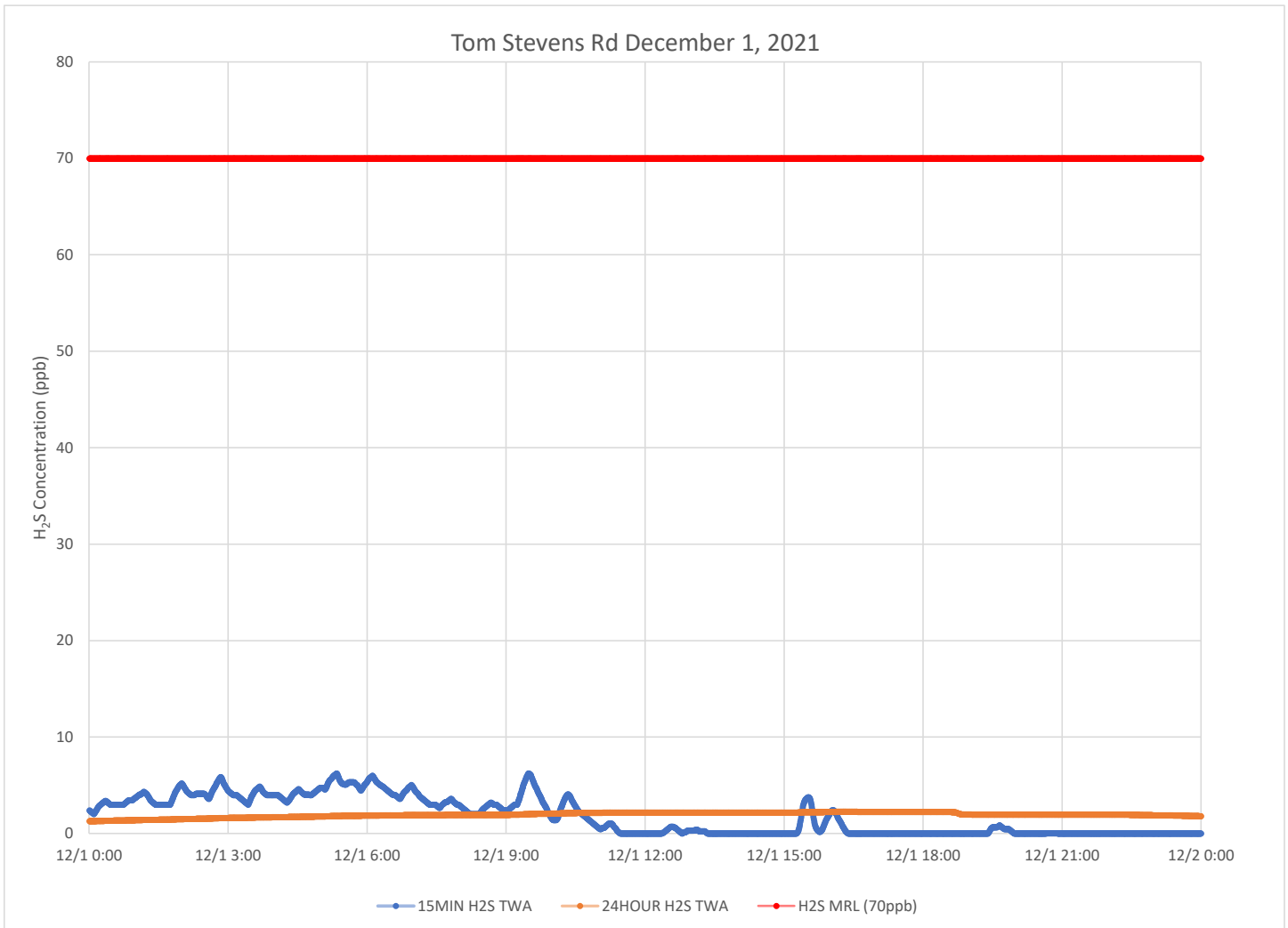
**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▼ DHEC Monitor

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

Winds were calm to light for much of the period, in particular before noon. When present, winds were mostly from the south southwest to west southwest.



### Notes:

Time is Eastern Standard Time

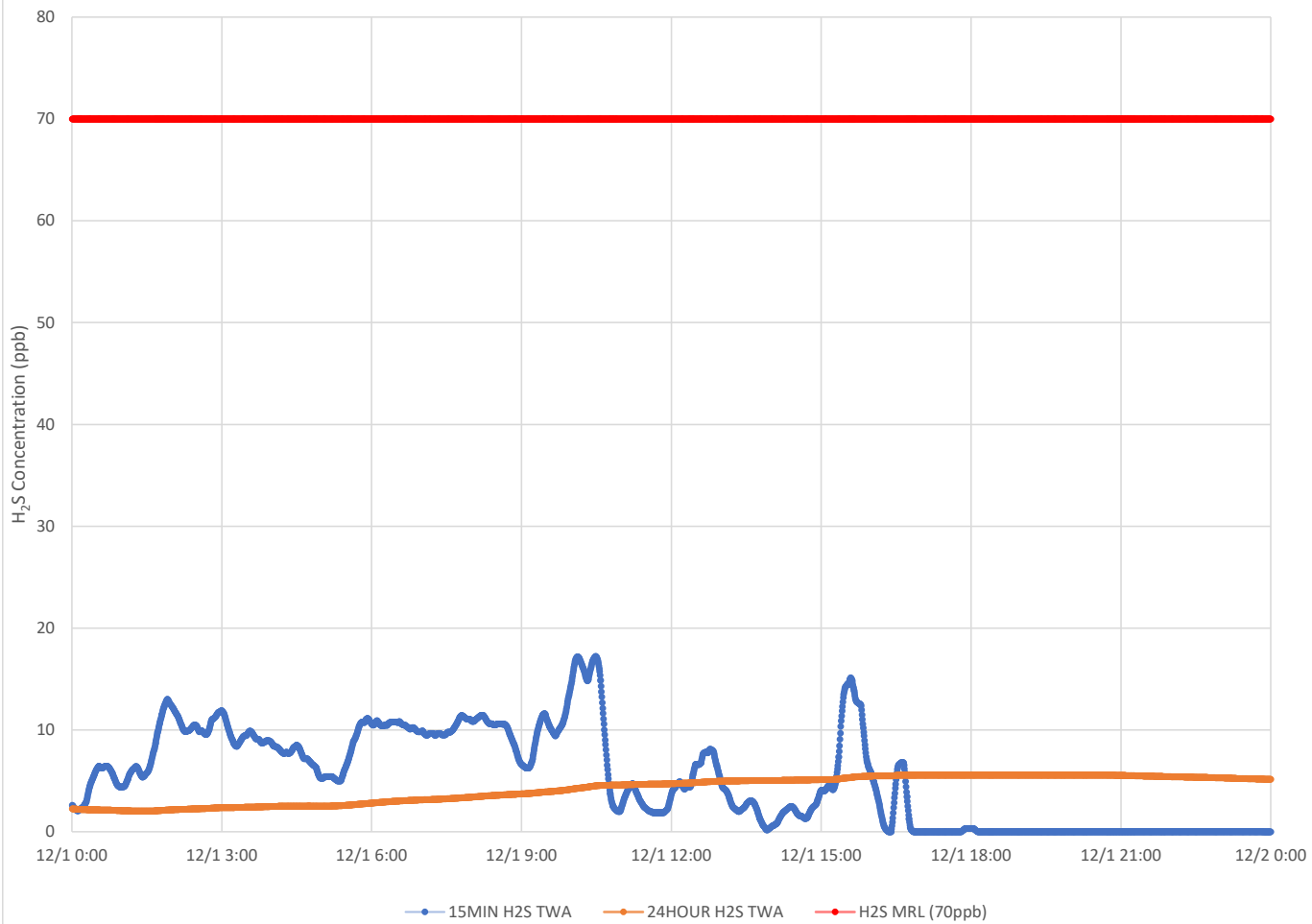
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 1, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

Report revised to remove incorrect notation in heading of the Catawba Express Summary Table.  
No data, summary results, or charts were revised.

## Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/2/21  
12:00 AM

**To:** 12/2/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H <sub>2</sub> S	No	3017	11	0 - 1 ppb	0 ppb	70 ppb

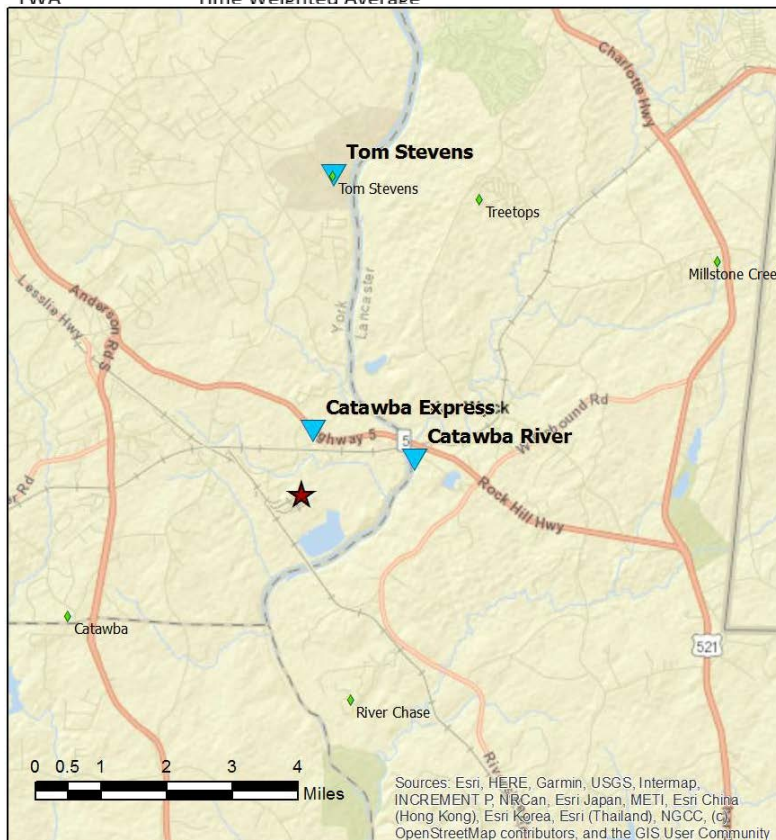
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H <sub>2</sub> S	No	2944	323	0 - 10 ppb	0.38 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)
- H<sub>2</sub>S 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 Average



**Legend**

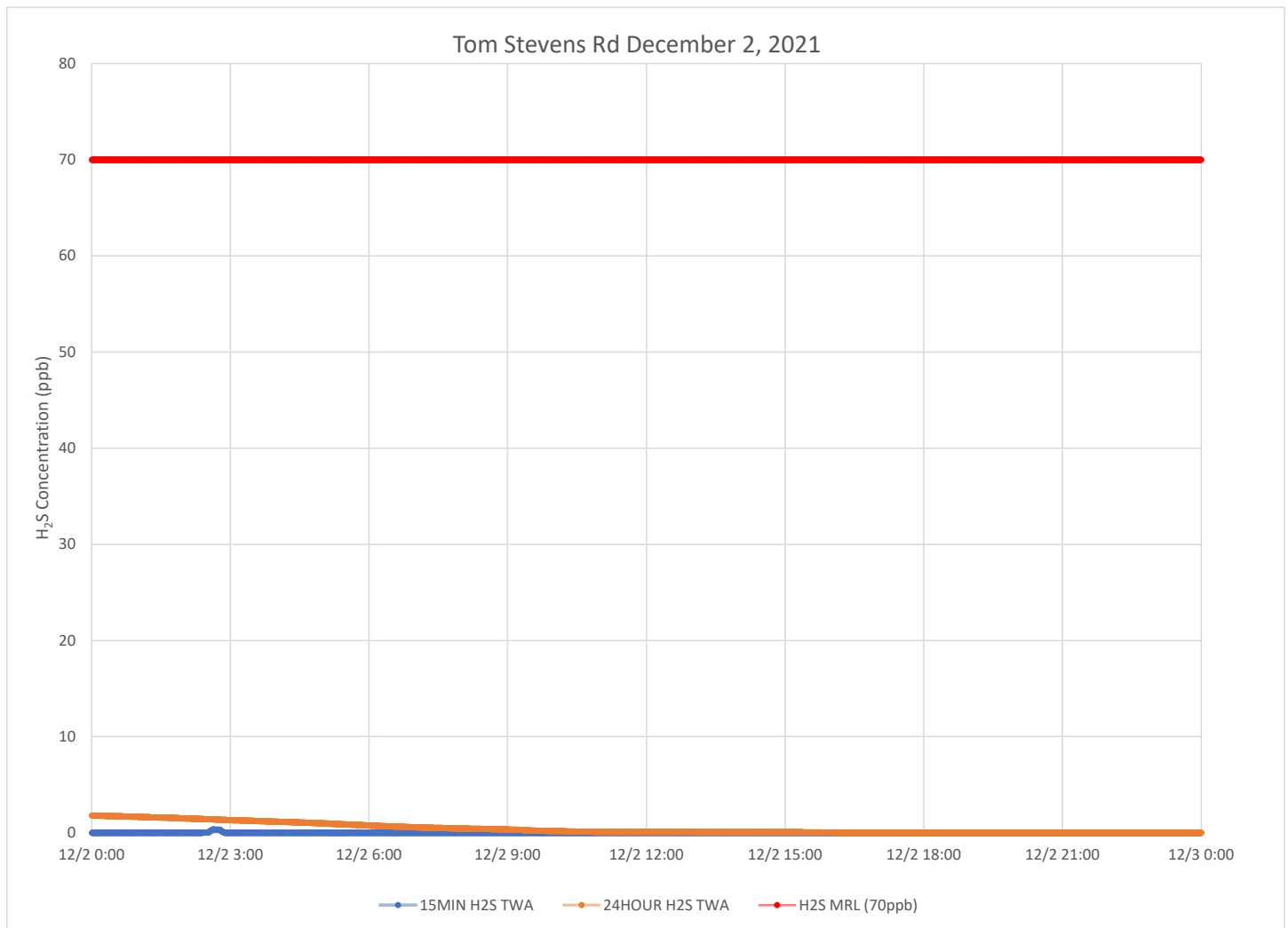
- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▼ DHEC Monitor

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

Except for a brief time in the morning when winds were more southerly, winds were from the south southwest to west southwest during this period.



### Notes:

Time is Eastern Standard Time

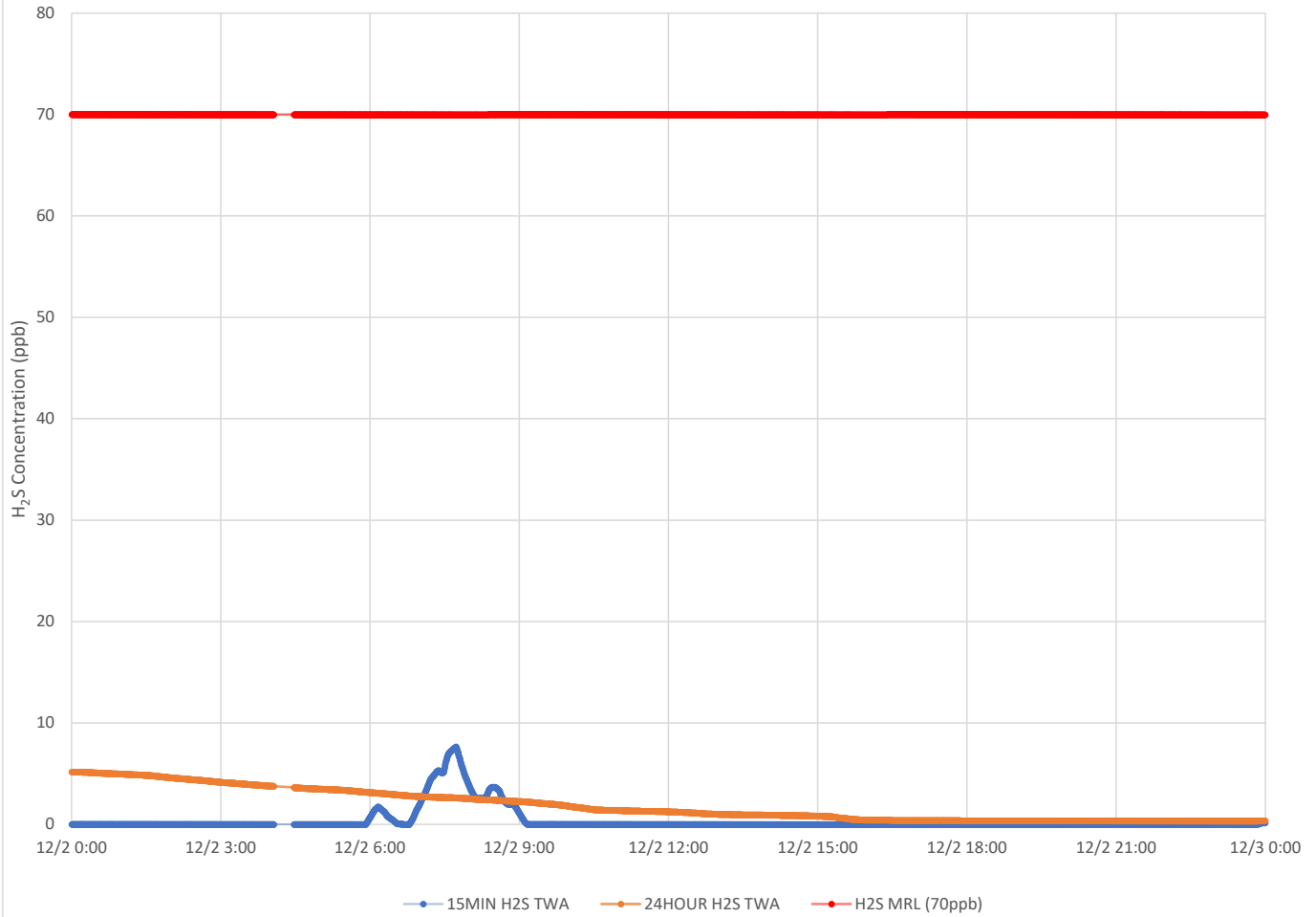
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 2, 2021



#### Notes:

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/3/21  
12:00 AM

**To:** 12/3/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	3001	869	0 - 15 ppb	1 ppb	70 ppb

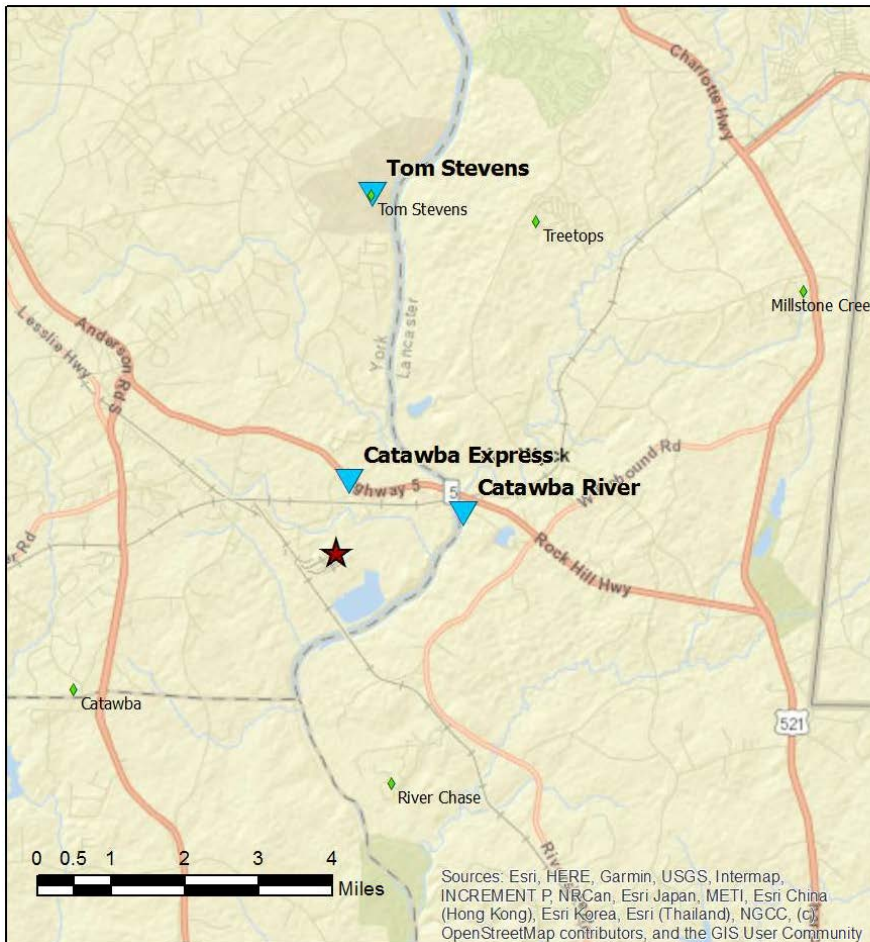
Catawba River Monitor Off line							
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Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2998	1453	0 - 17 ppb	2.45 ppb	70 ppb

**Notes:**

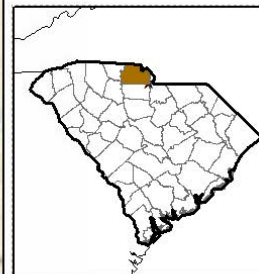
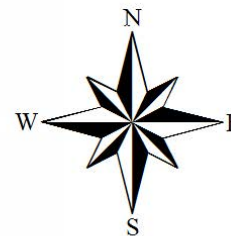
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S 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 Average



**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▼ DHEC Monitor

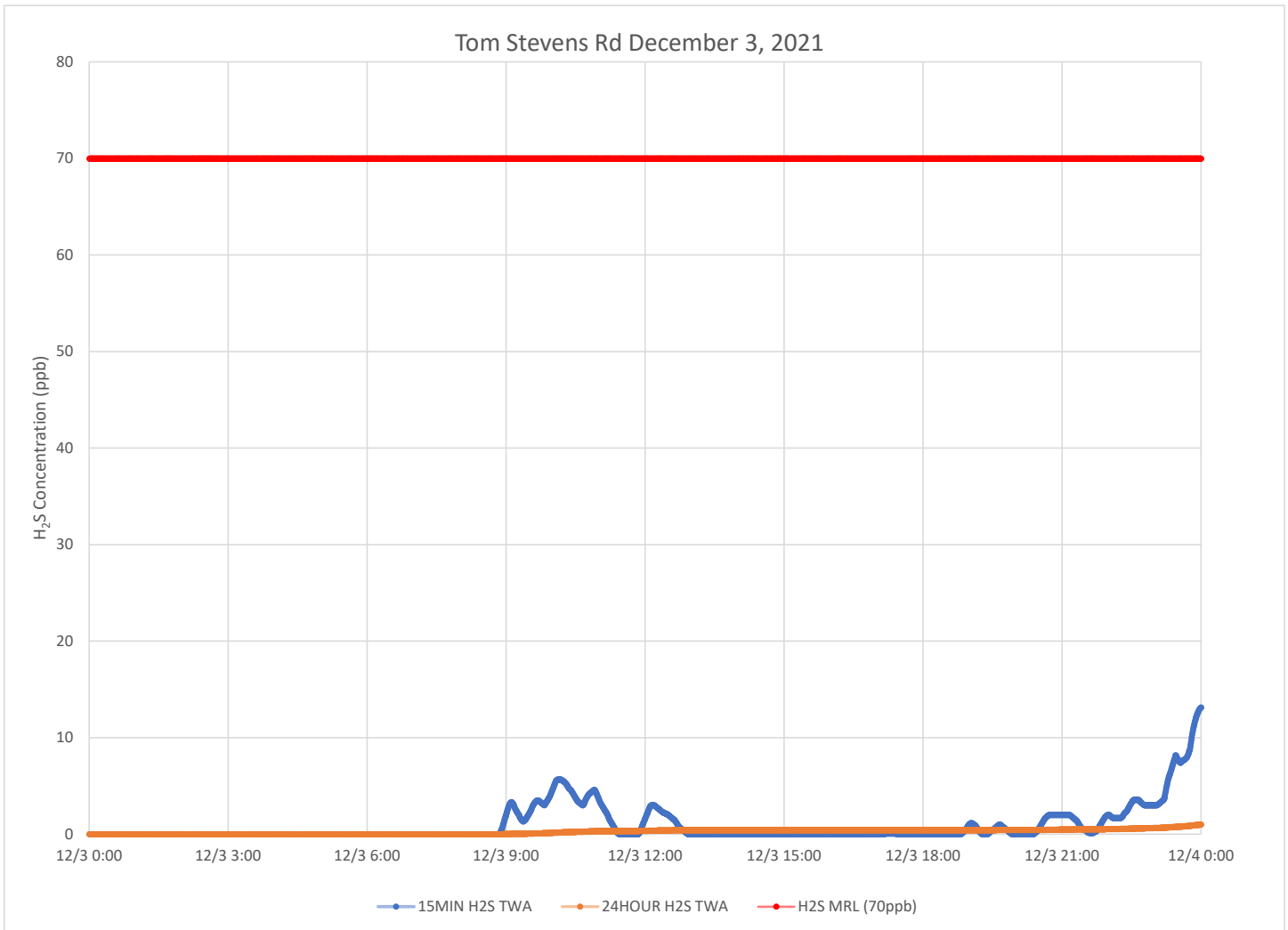


Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

Winds were generally calm to light, shifting from west southwest to west early to from more south to southwest in the afternoon and evening.



### Notes:

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

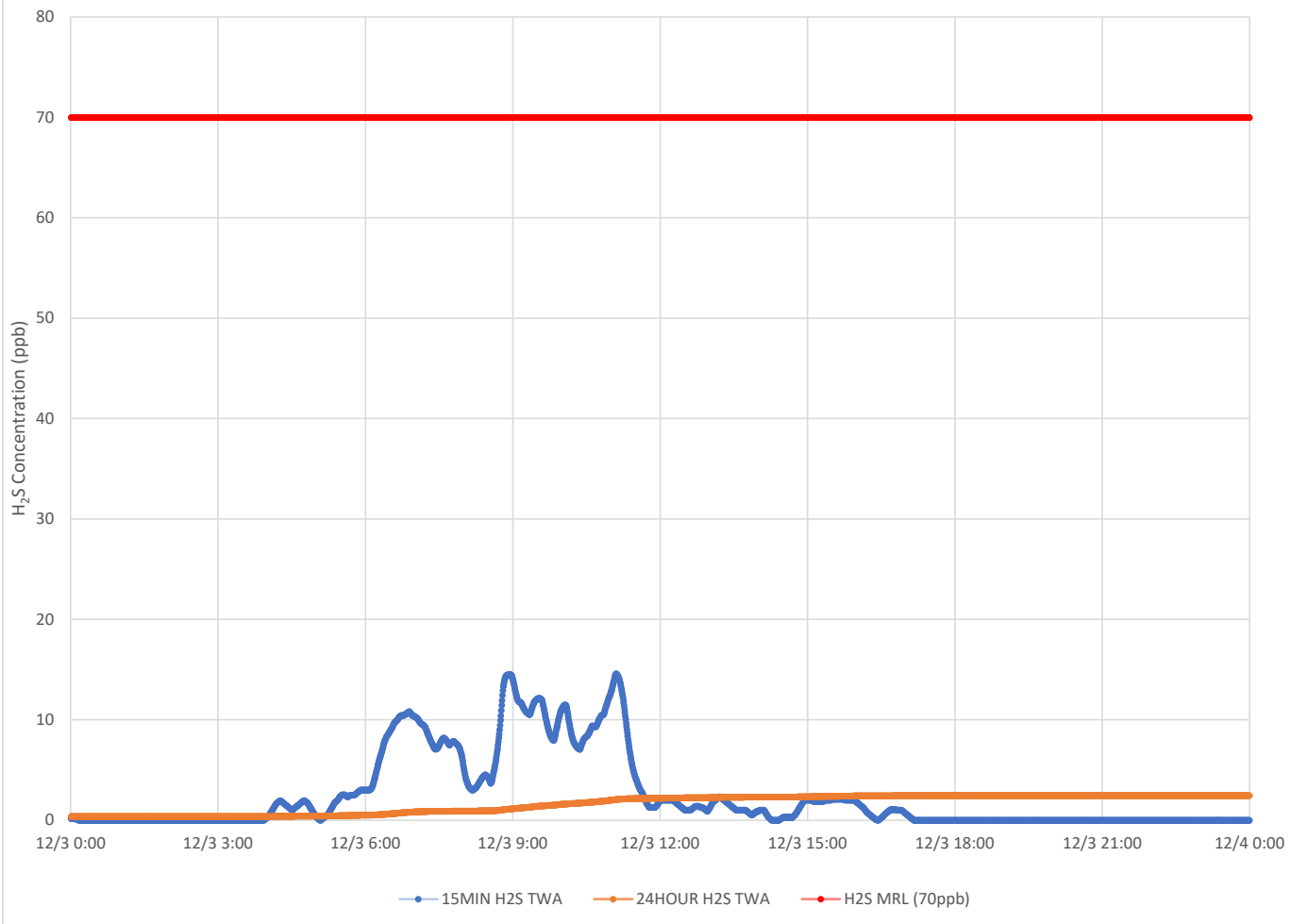
MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion



### Catawba Express December 3, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/4/21  
12:00 AM

**To:** 12/4/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2999	1397	0 - 14 ppb	1.77 ppb	70 ppb

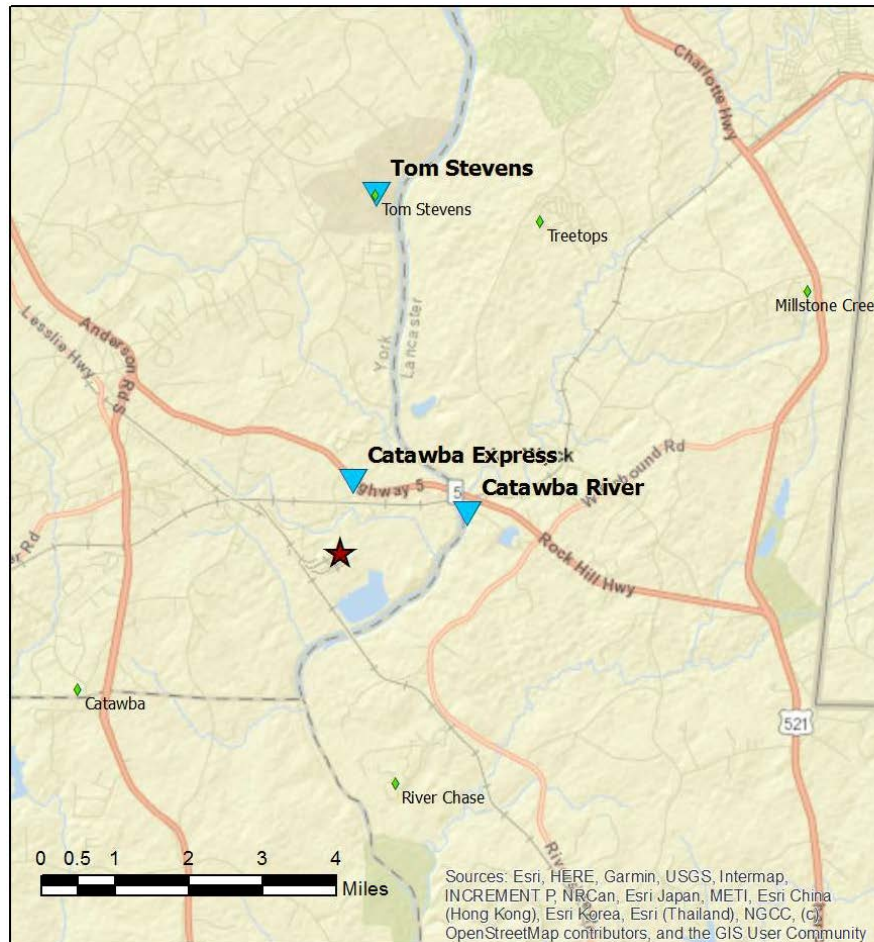
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	3011	2379	0 - 26 ppb	3.78 ppb	70 ppb

**Notes:**

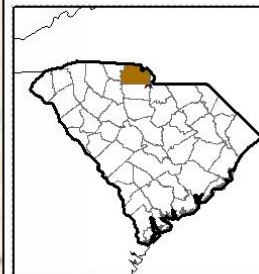
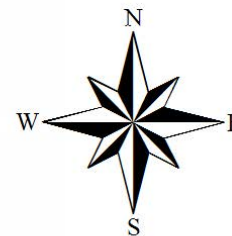
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S 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 Average



**Legend**

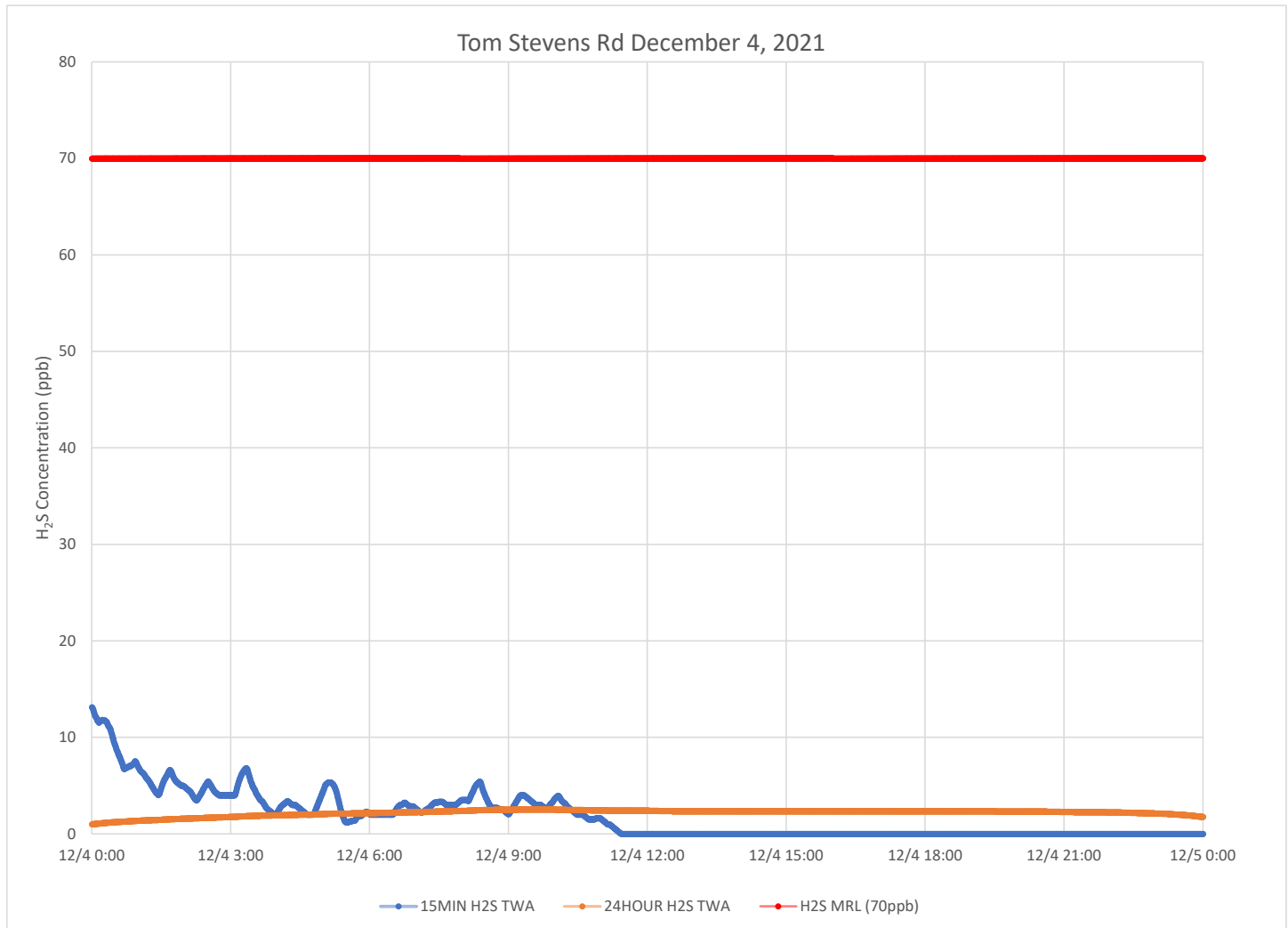
- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▼ DHEC Monitor



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

Winds were light from the south southwest to southwest before dawn, becoming light and variable for the rest of the period.



### Notes:

Time is Eastern Standard Time

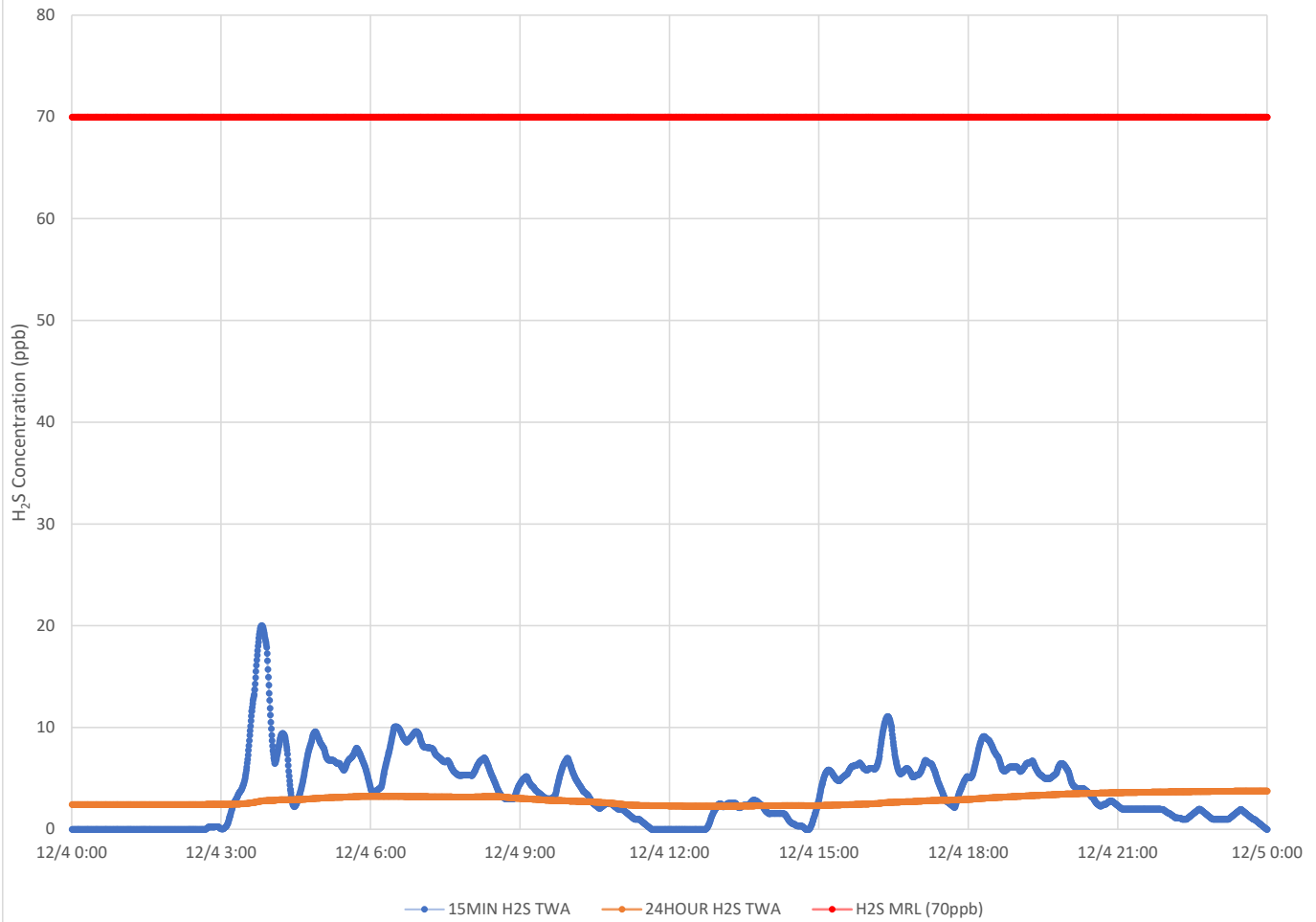
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 4, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/5/21  
12:00 AM

**To:** 12/5/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2983	0	0 - 0 ppb	0 ppb	70 ppb

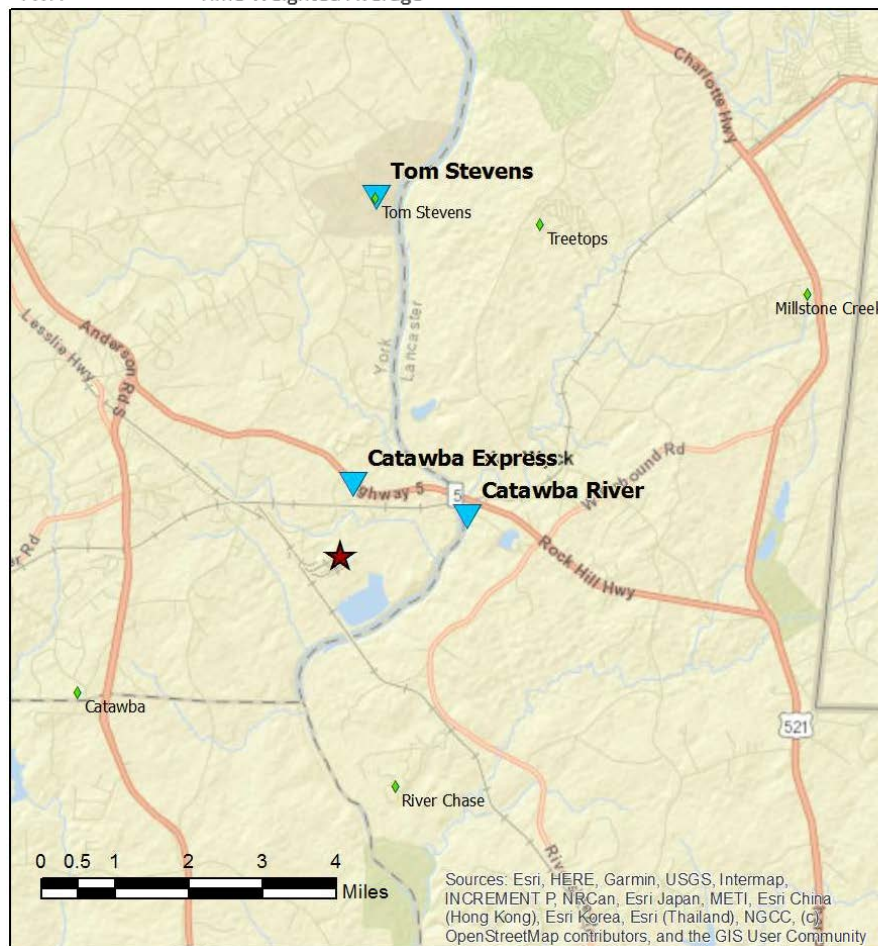
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	3018	126	0 - 9 ppb	0.22 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)
- H<sub>2</sub>S 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 Average



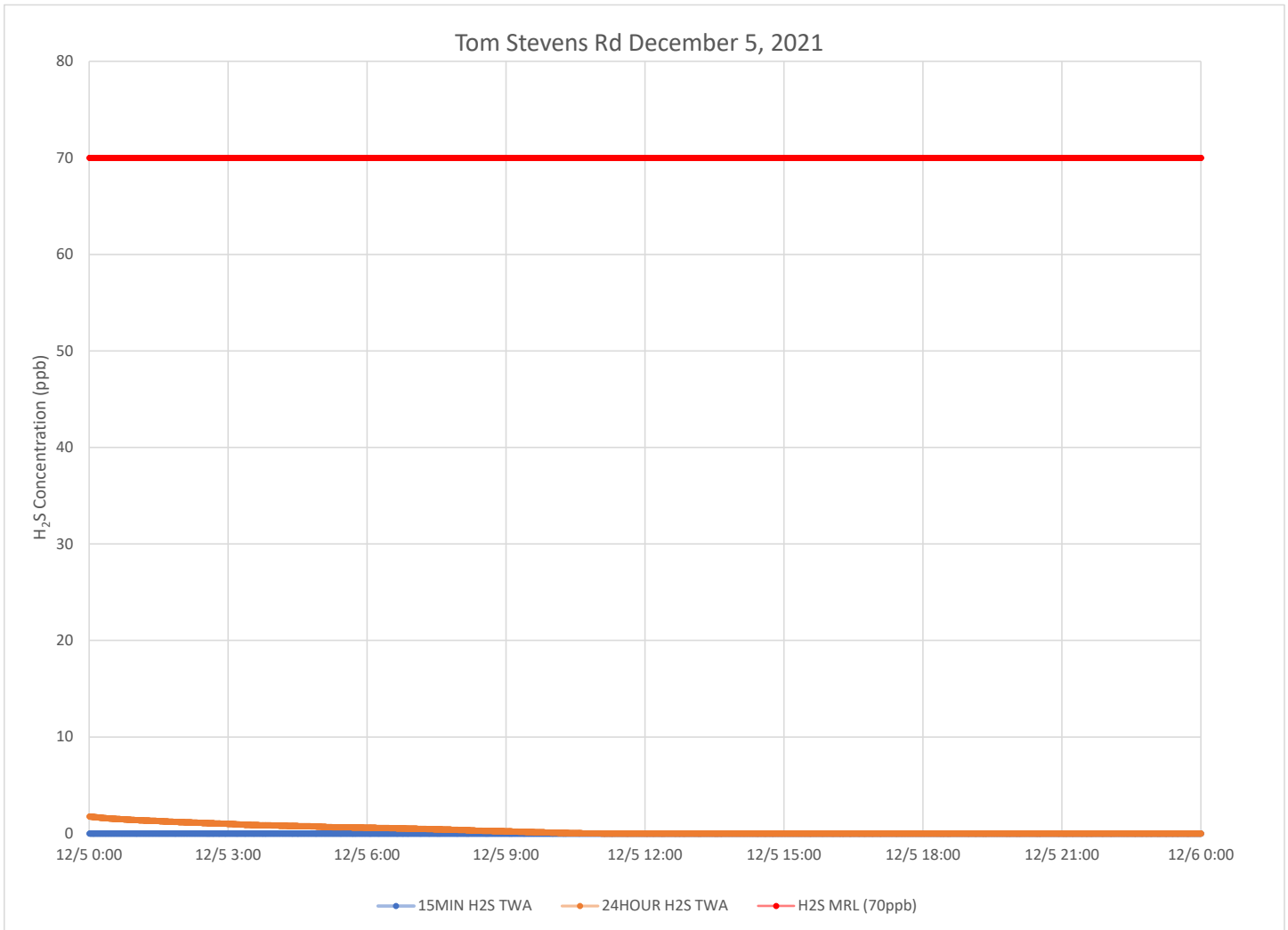
**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▲ DHEC Monitor

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

Winds were light to calm throughout the period, but when present were from the north northeast to southeast.



### Notes:

Time is Eastern Standard Time

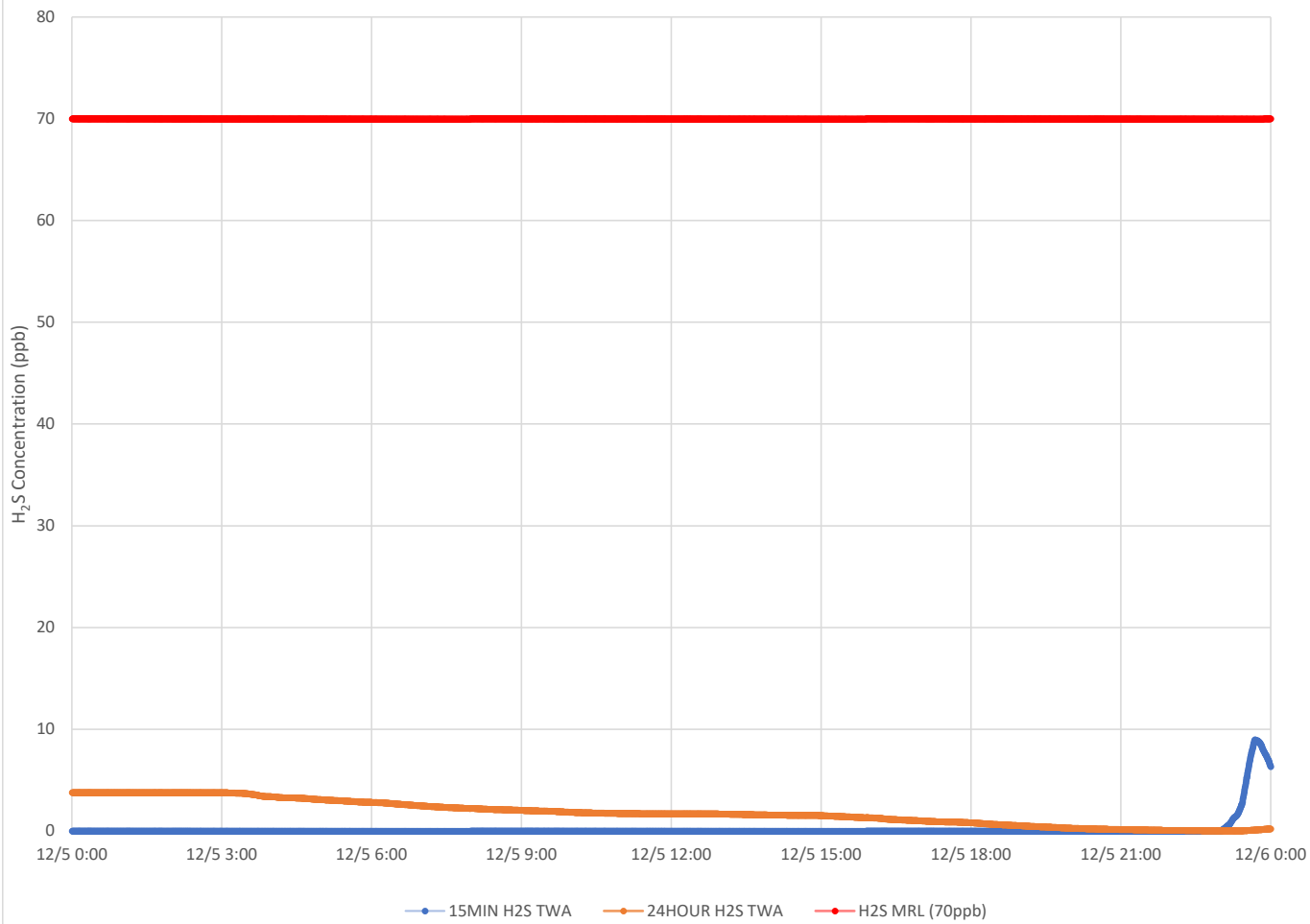
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 5, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/6/21  
12:00 AM

**To:** 12/6/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	3005	407	0 - 8 ppb	0.46 ppb	70 ppb

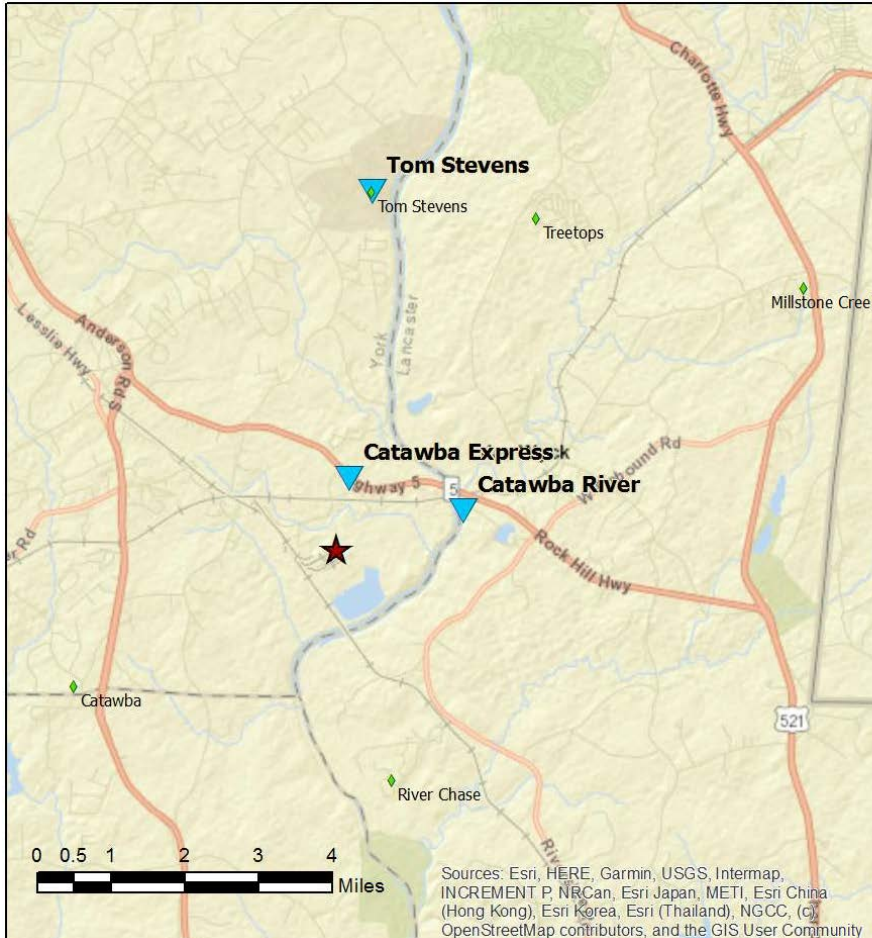
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	3006	872	0 - 15 ppb	1.32 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)
- H<sub>2</sub>S 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 Average



**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▲ DHEC Monitor

The figure includes a compass rose with cardinal directions (N, S, E, W) and an inset map of South Carolina with a small orange square indicating the location of the study area in the western part of the state.

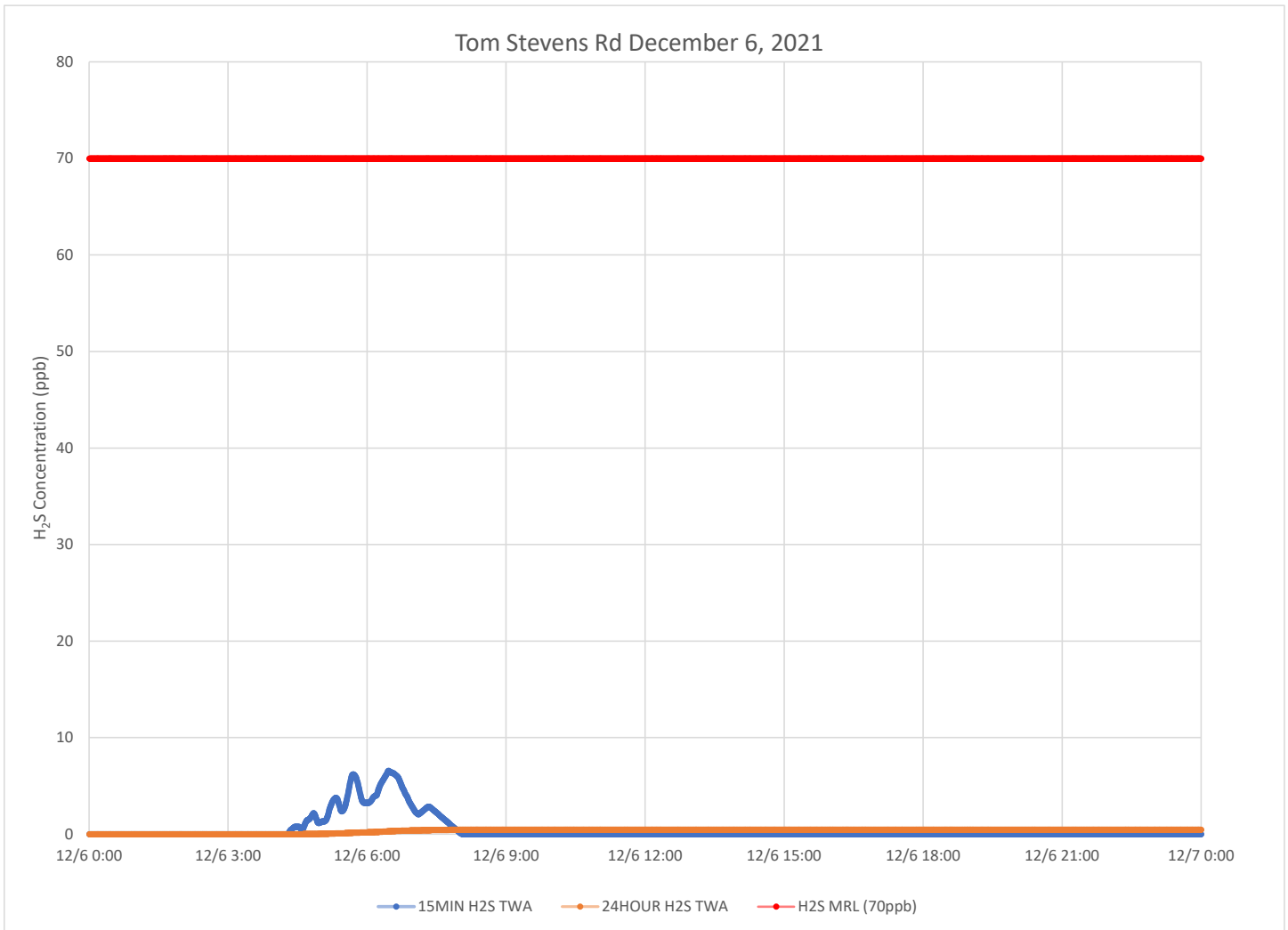
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

Winds were light to calm from the southwest through noon, strengthening around midday, then becoming lighter in the late afternoon and shifting to more from the north near midnight.



### Notes:

Time is Eastern Standard Time

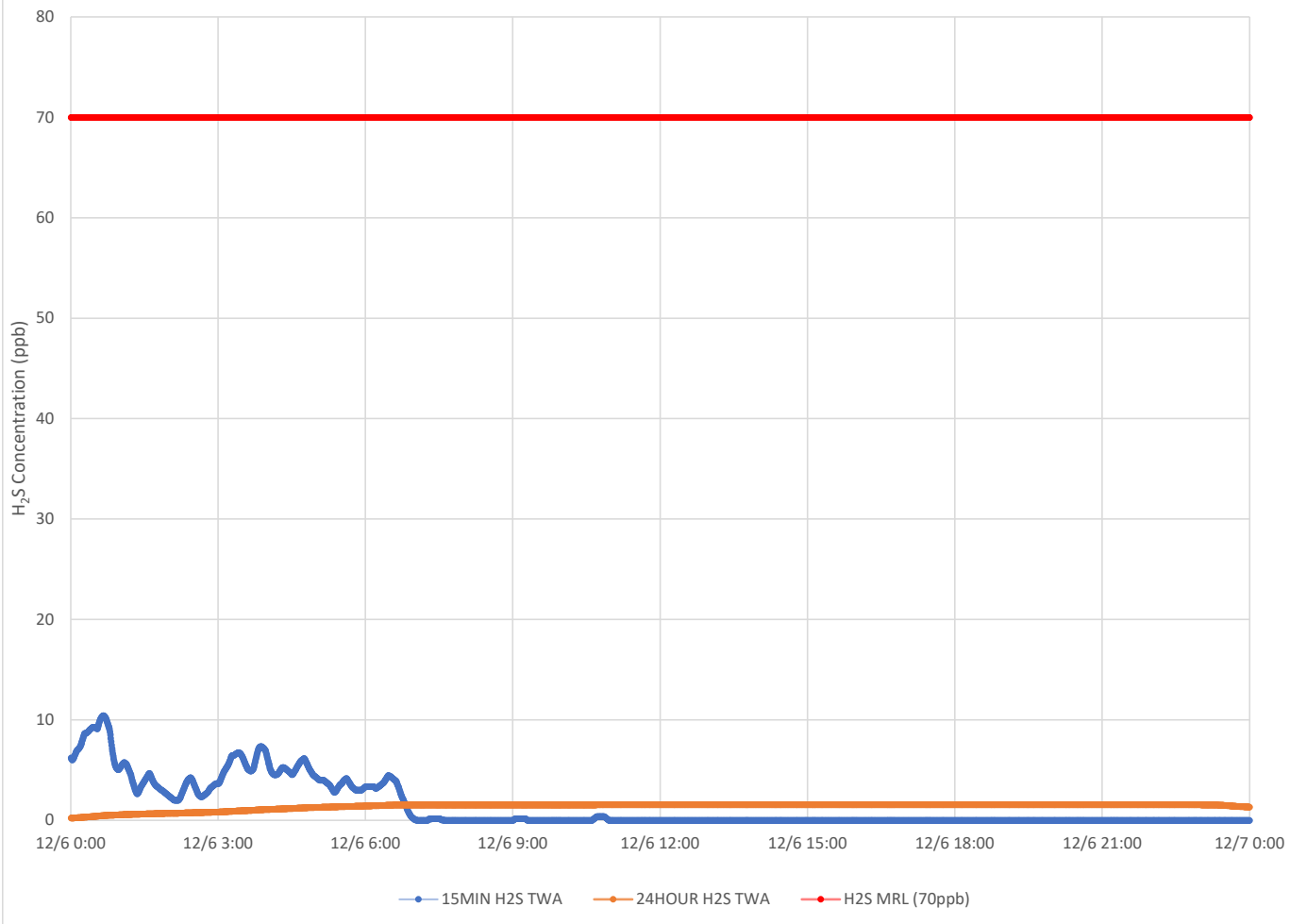
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 6, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

Data collection was interrupted for equipment maintenance at both sites during this period.

## Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/7/21  
12:00 AM

**To:** 12/7/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H <sub>2</sub> S	No	2603	22	0 - 1 ppb	0.01 ppb	70 ppb

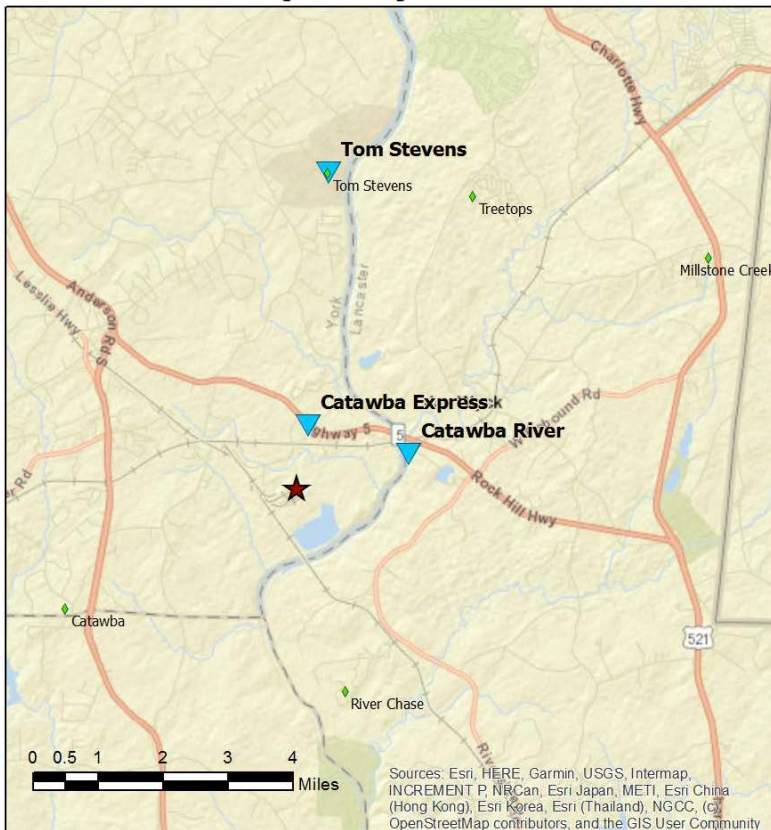
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H <sub>2</sub> S	No	2887	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)
- H<sub>2</sub>S 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 Average



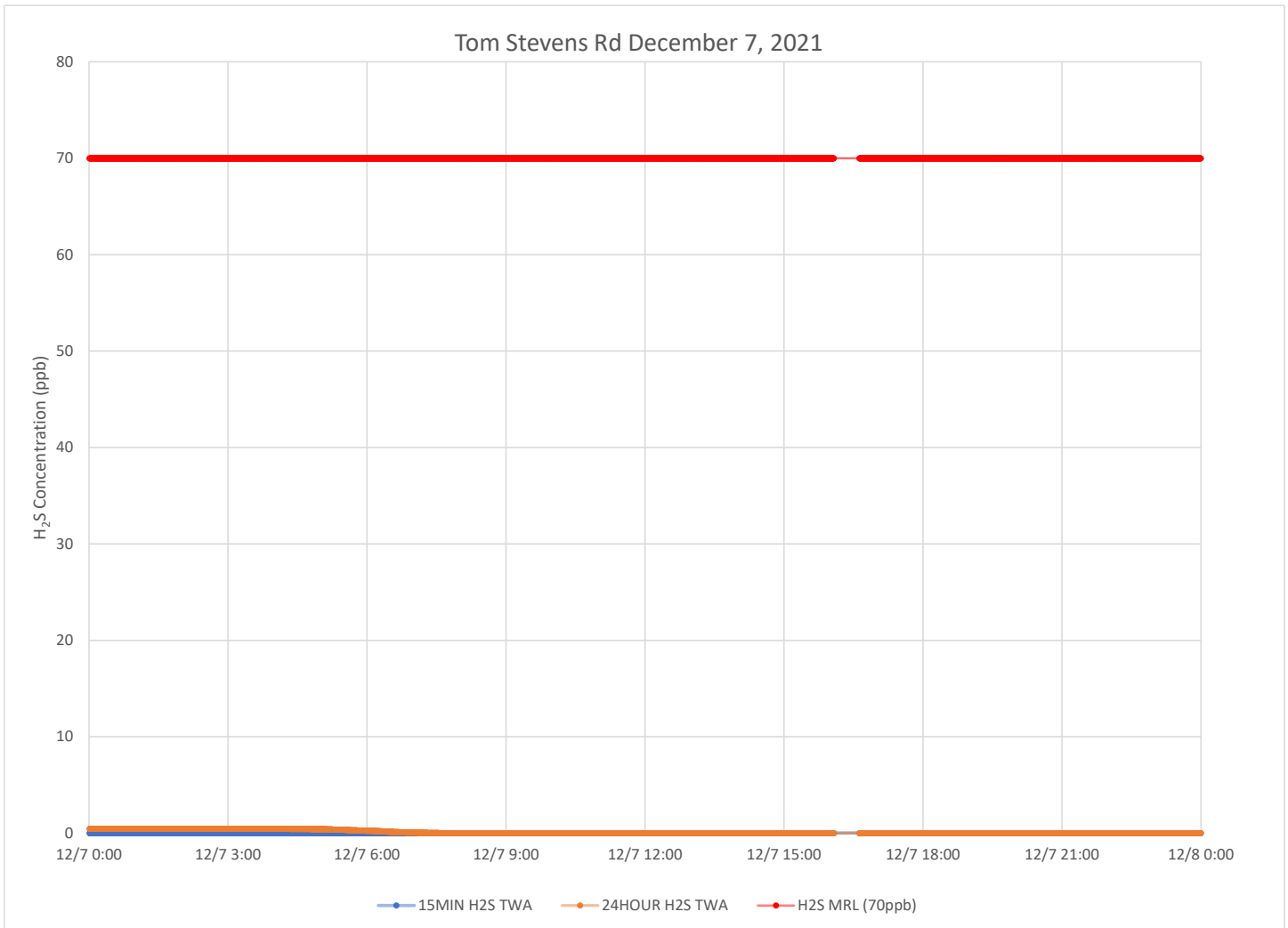
**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▼ DHEC Monitor

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

Winds were from the north to northeast through midafternoon, becoming light and variable and shifting to from the east southeast through the end of the period.



### Notes:

Time is Eastern Standard Time

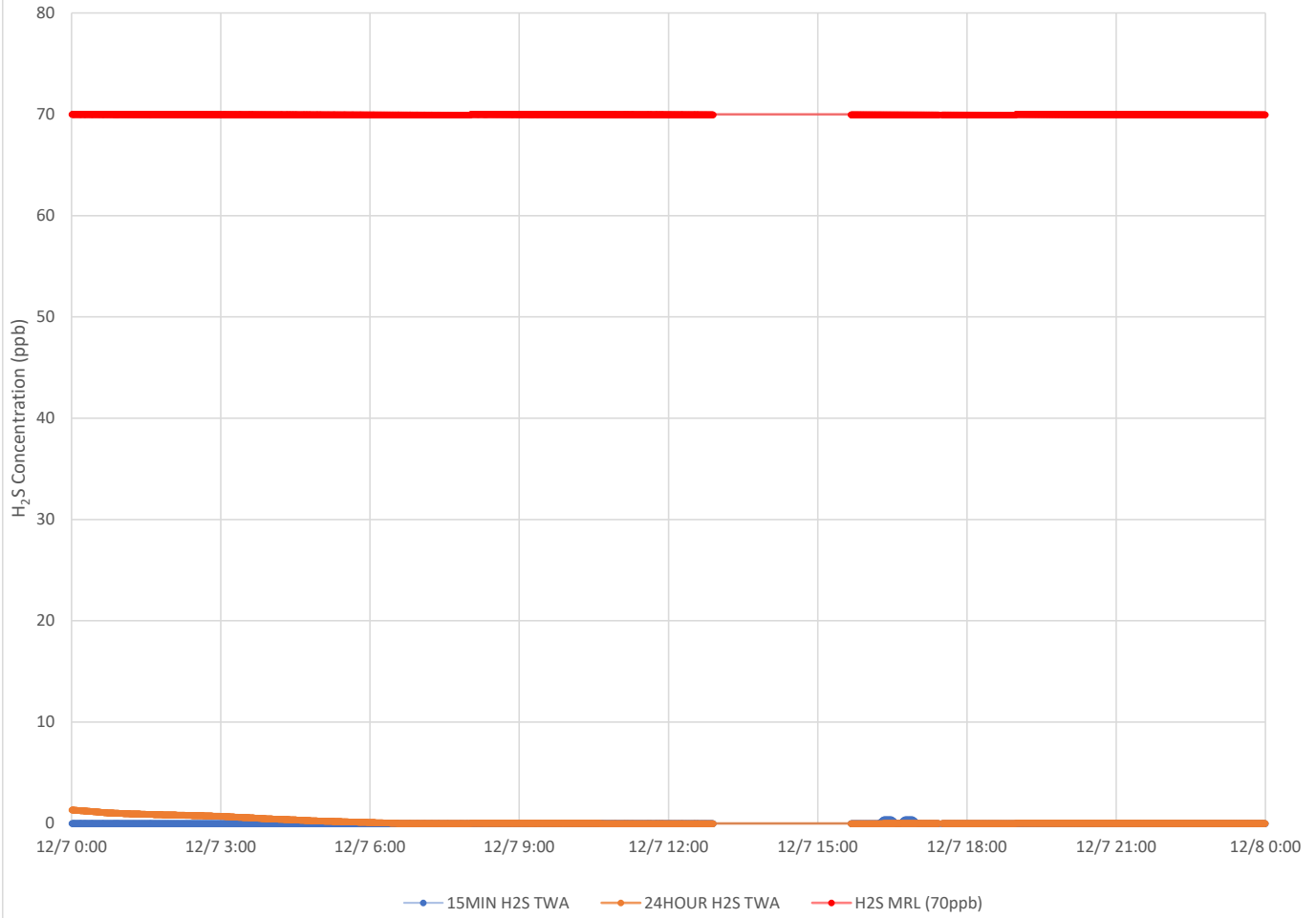
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 7, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/8/21  
12:00 AM

**To:** 12/8/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

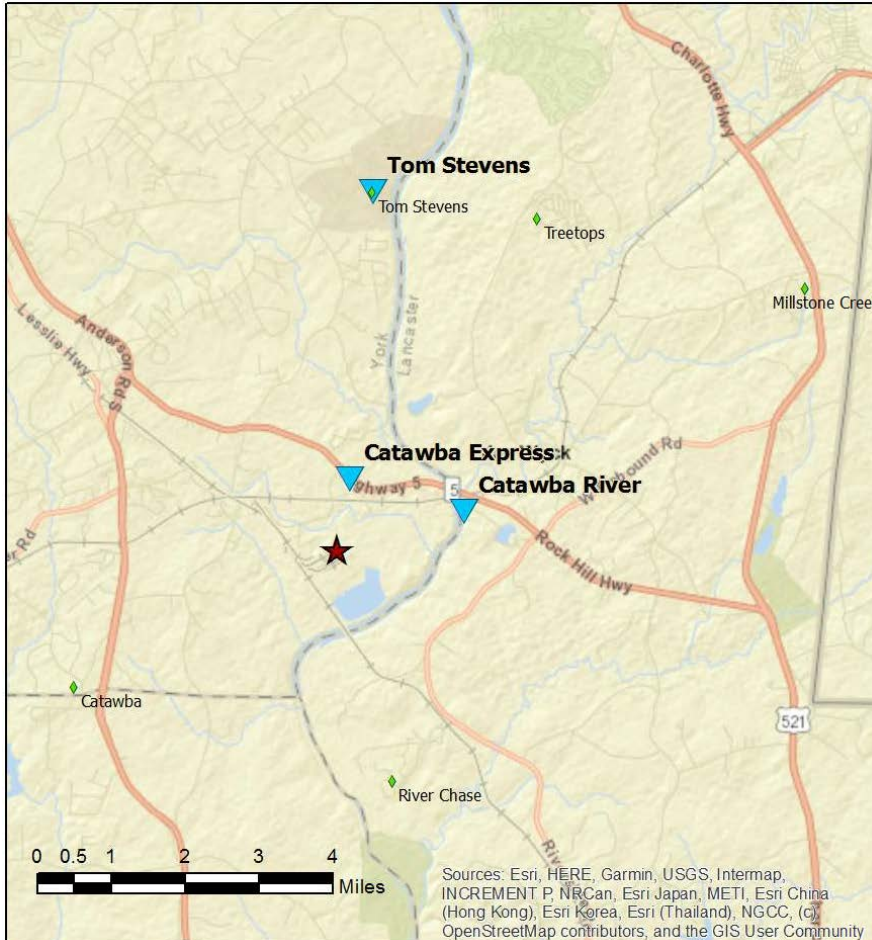
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	242	0 - 11 ppb	0.34 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)
- H<sub>2</sub>S 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 Average



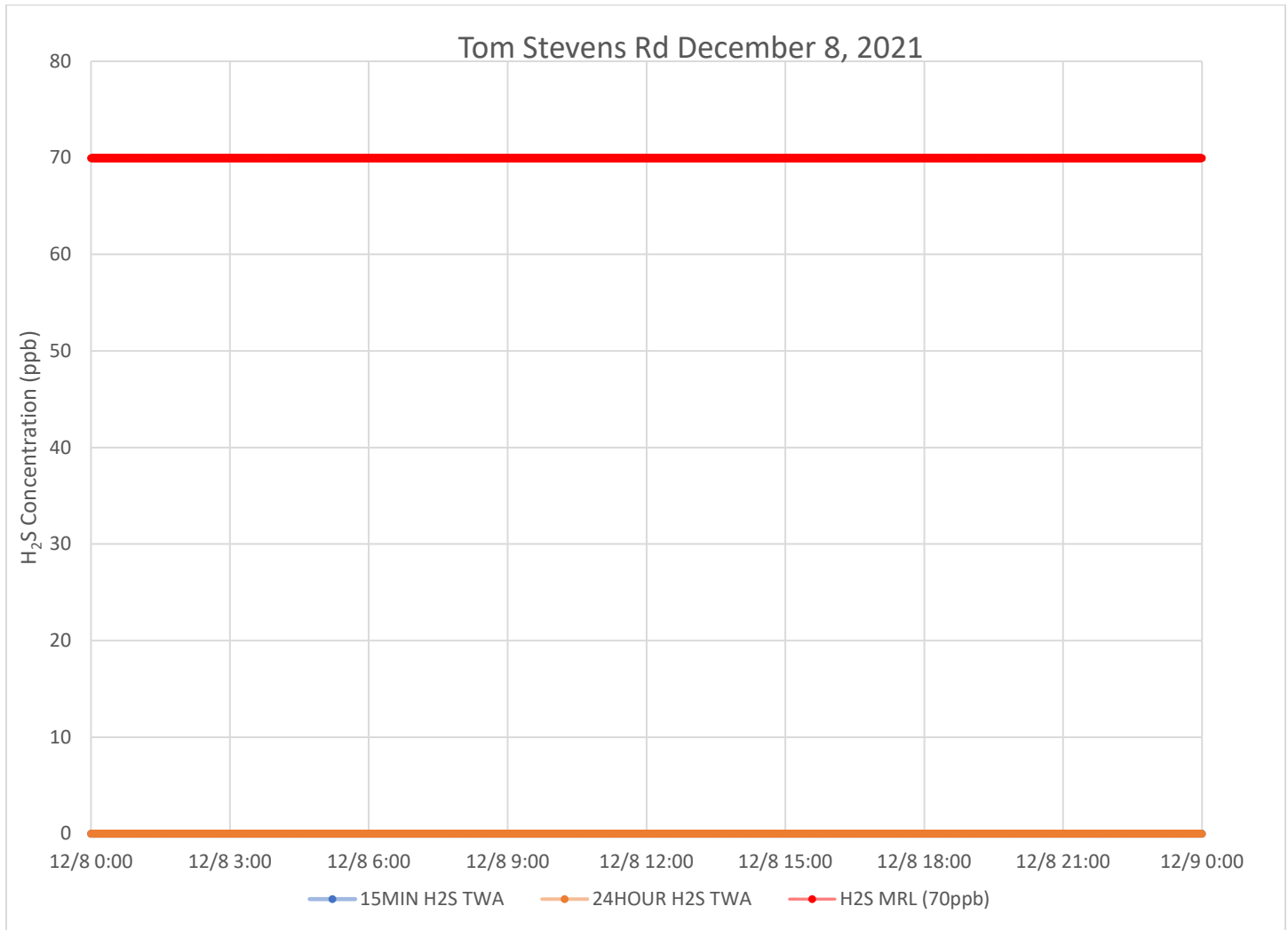
**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▼ DHEC Monitor

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

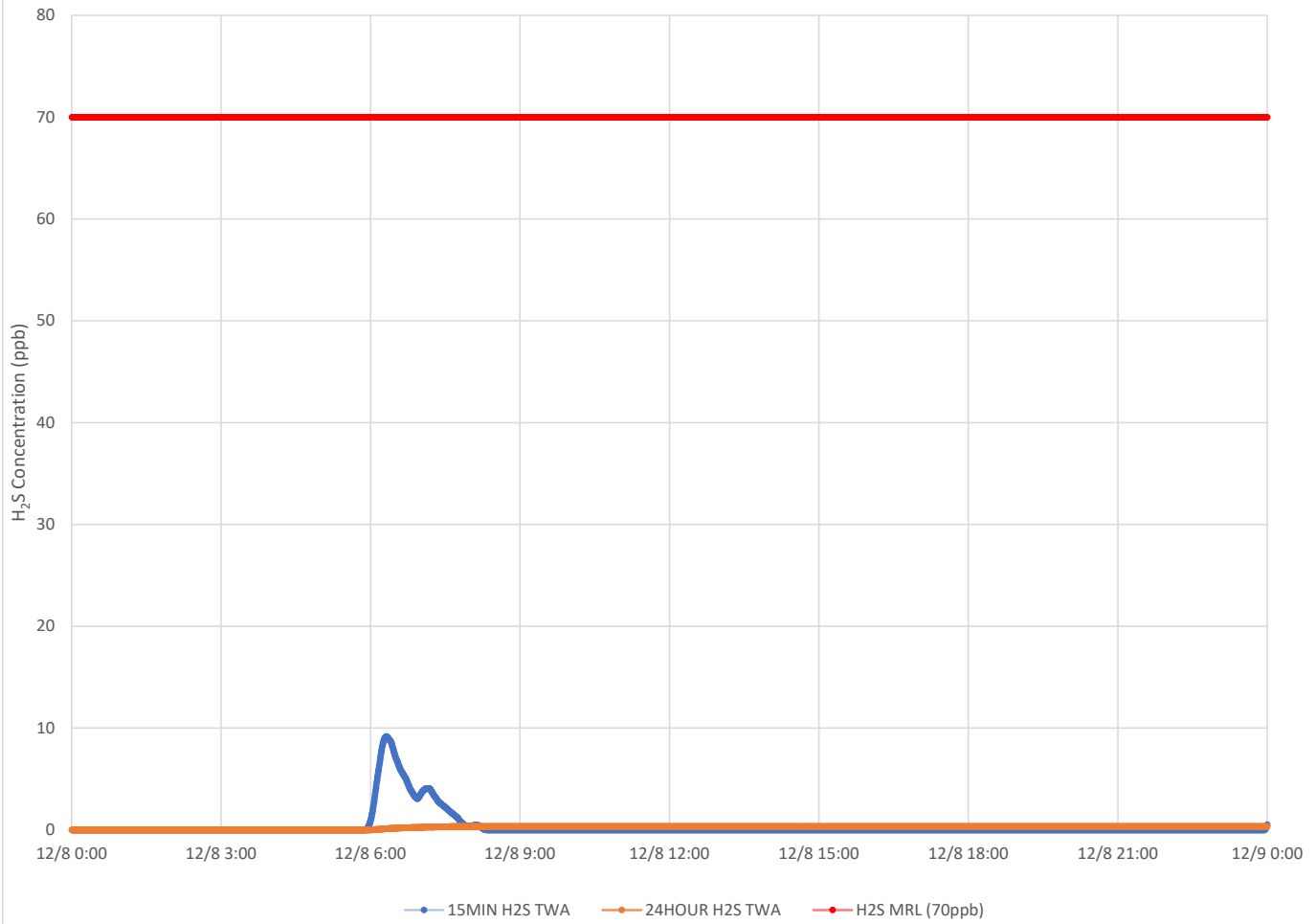
Winds were variable to calm throughout the period, but when present, were from the south southeast early, from the north to northeast midday and shifting more from the west southwest in the late evening.



### Notes:

Time is Eastern Standard Time  
H<sub>2</sub>S – Hydrogen Sulfide  
MIN – Minute  
MRL – Minimal Risk Level  
ppb – Parts per billion

### Catawba Express December 8, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion



# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/9/21  
12:00 AM

**To:** 12/9/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	551	0 - 9 ppb	0.77 ppb	70 ppb

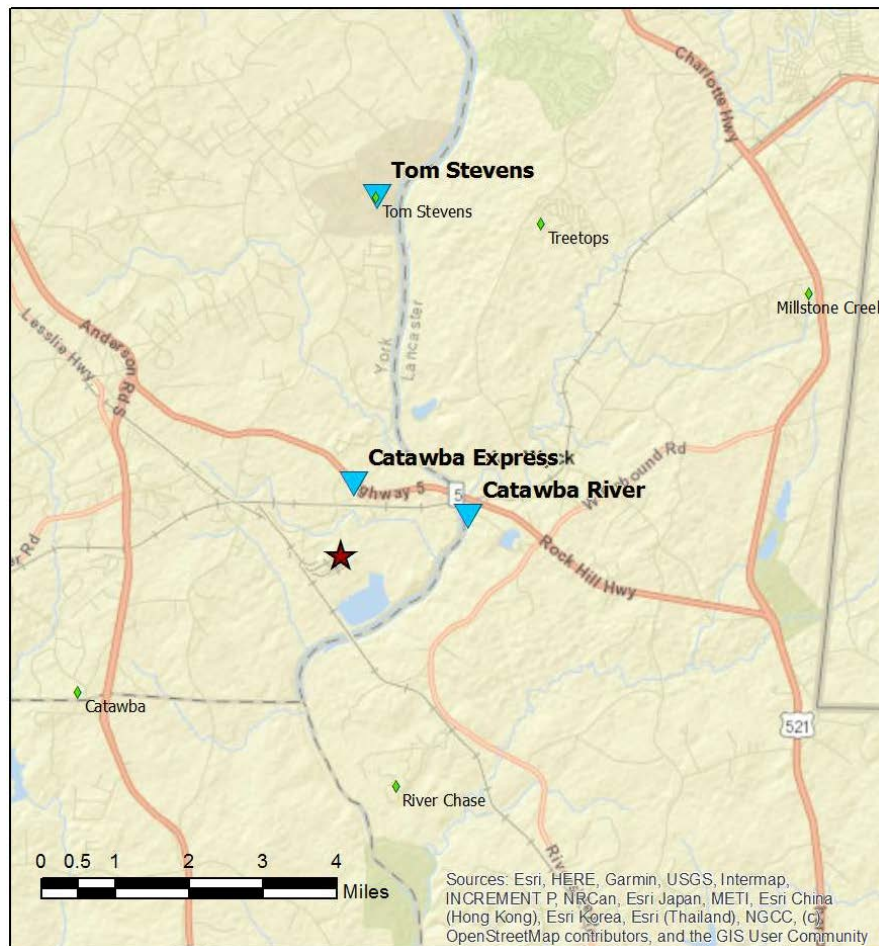
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	987	0 - 9 ppb	0.86 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)
- H<sub>2</sub>S 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 Average



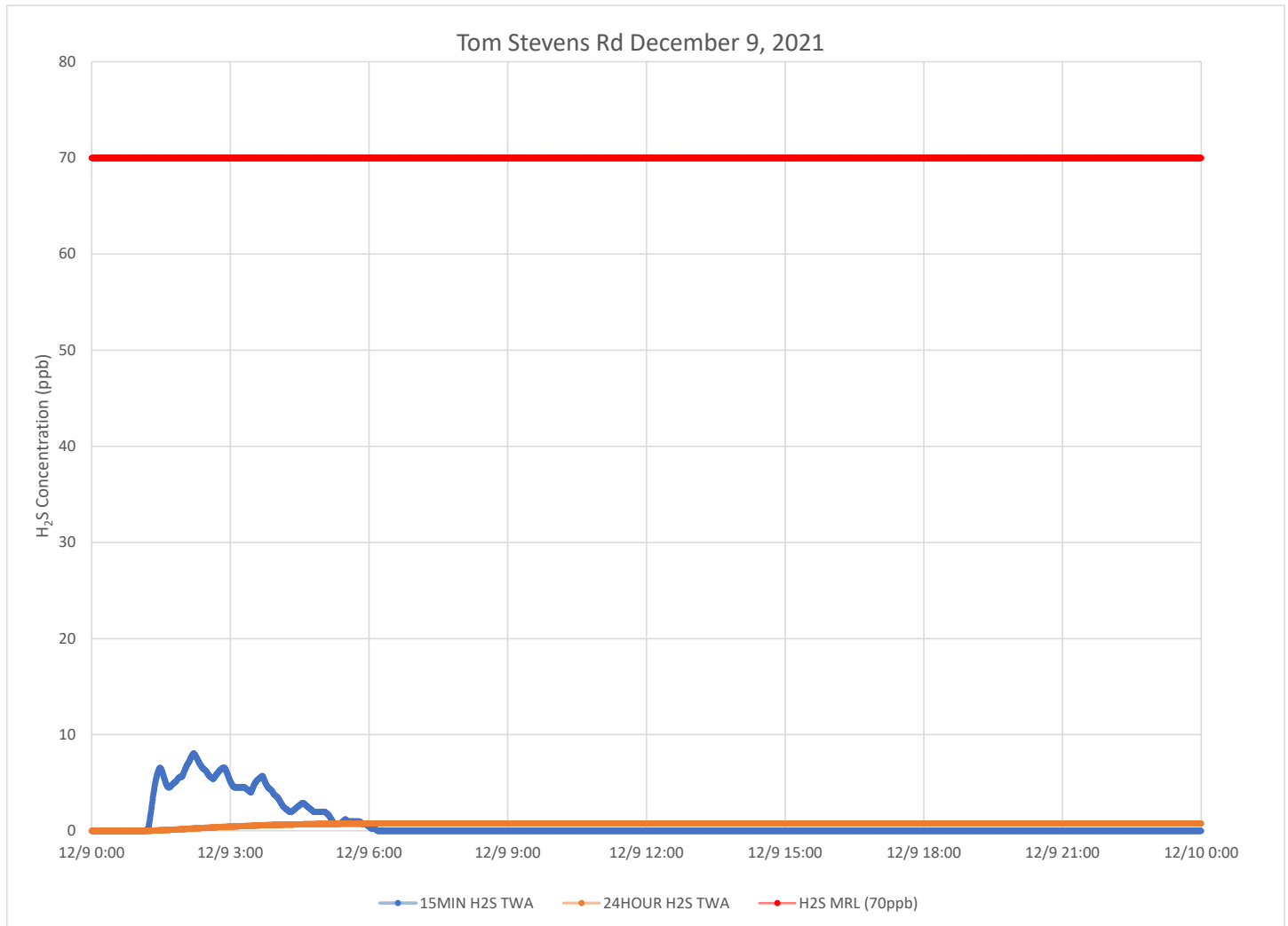
**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▲ DHEC Monitor

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

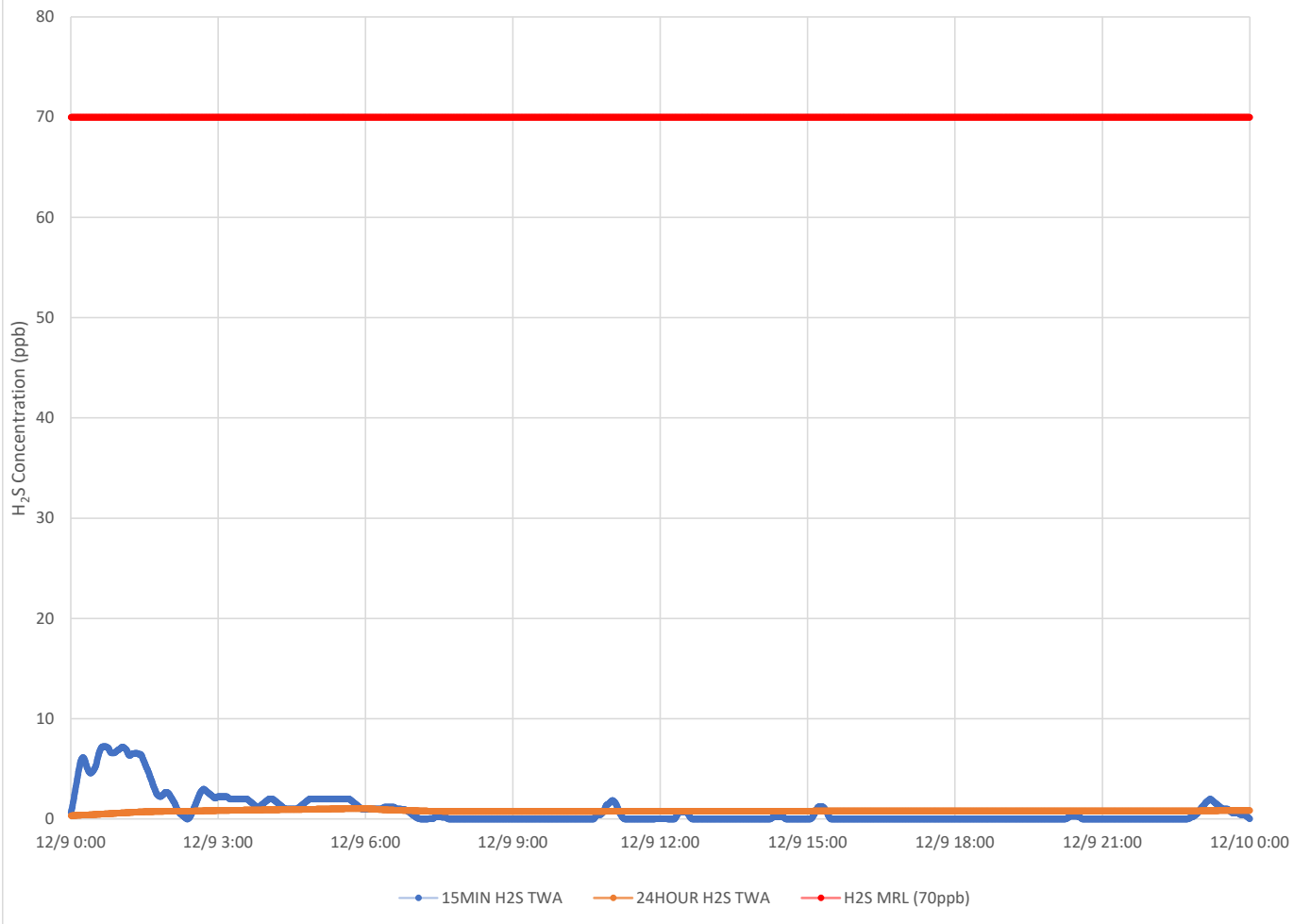
Winds were variable to calm throughout most of the period with no predominant or persistent direction indicated. Periods were recorded with wind from the south southwest through the north northeast.



### Notes:

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

### Catawba Express December 9, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/10/21  
12:00 AM

**To:** 12/10/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	1110	0 - 8 ppb	0.92 ppb	70 ppb

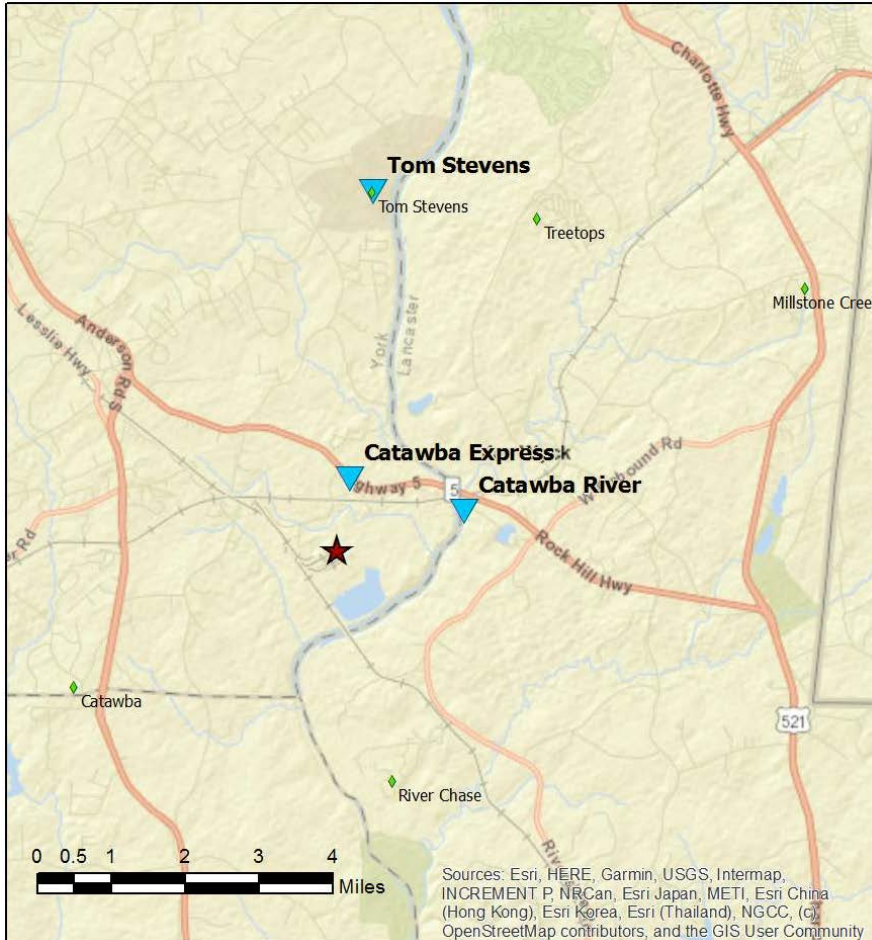
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	1199	0 - 10 ppb	1.32 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)
- H<sub>2</sub>S 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 Average



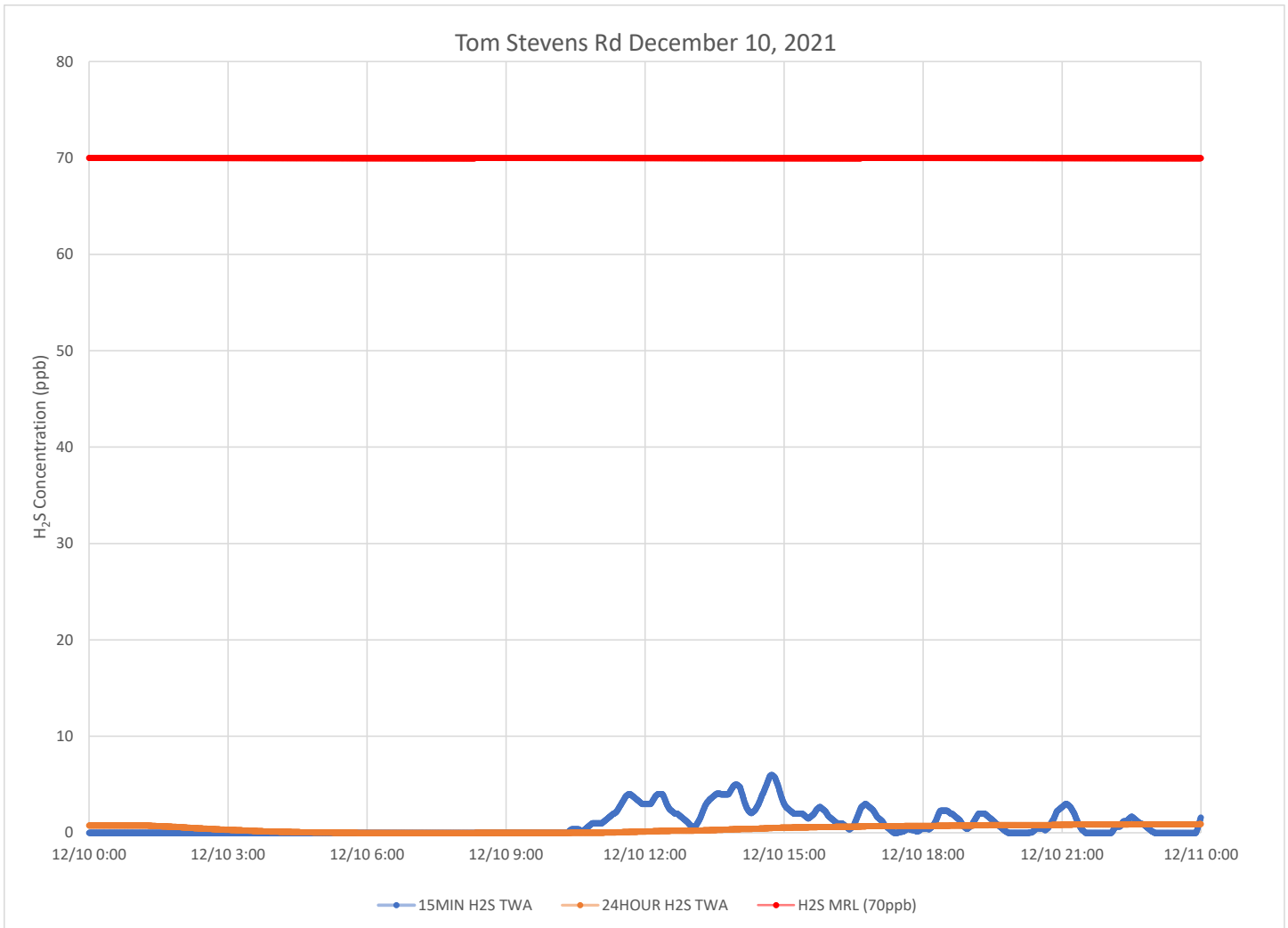
**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▼ DHEC Monitor

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

Winds were variable to calm throughout most of the day with no predominant or persistent direction indicated until the late evening when wind became more steady from the south to south southwest.



### Notes:

Time is Eastern Standard Time

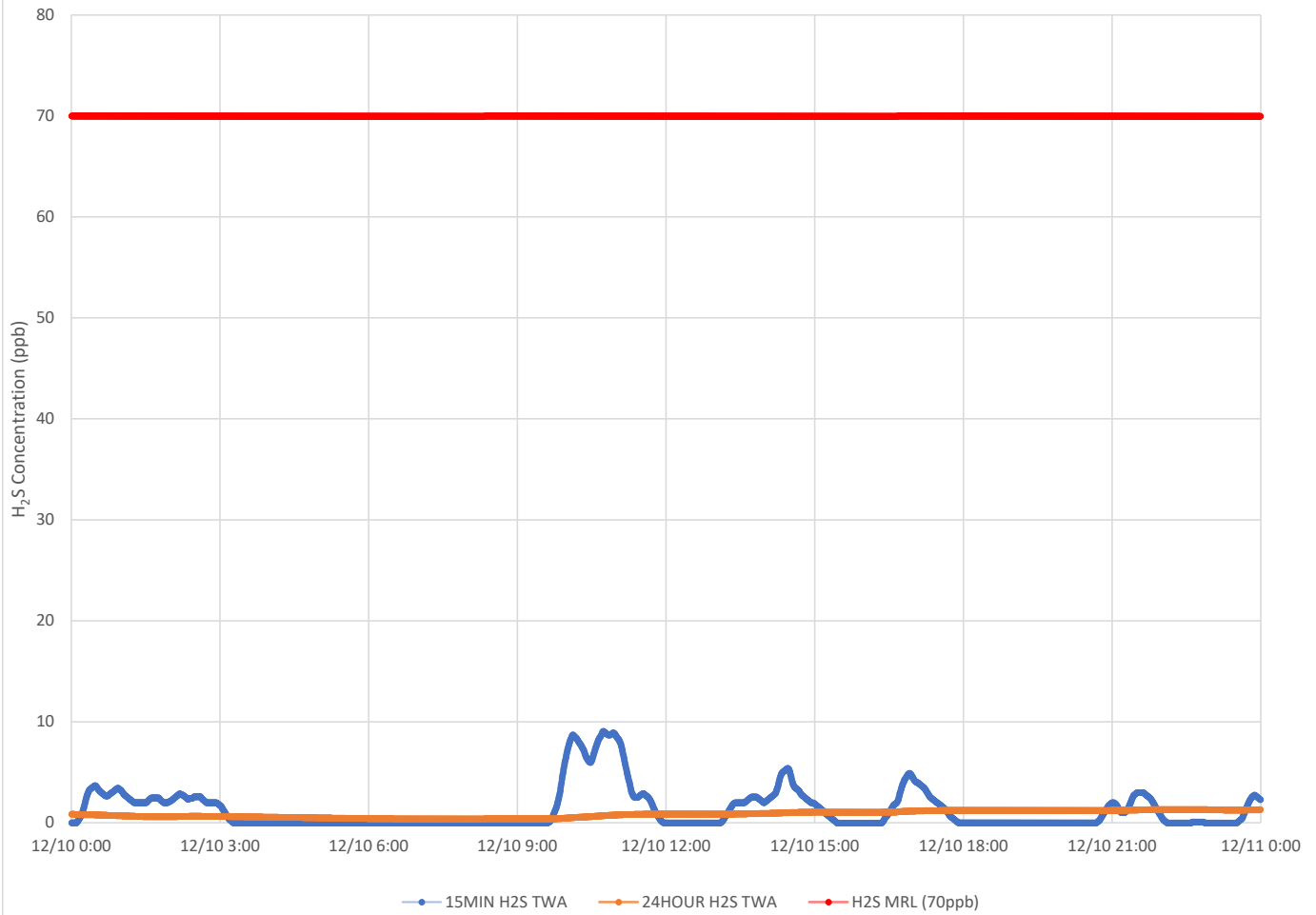
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 10, 2021



**Notes:**

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/11/21  
12:00 AM

**To:** 12/11/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	351	0 - 5 ppb	0.29 ppb	70 ppb

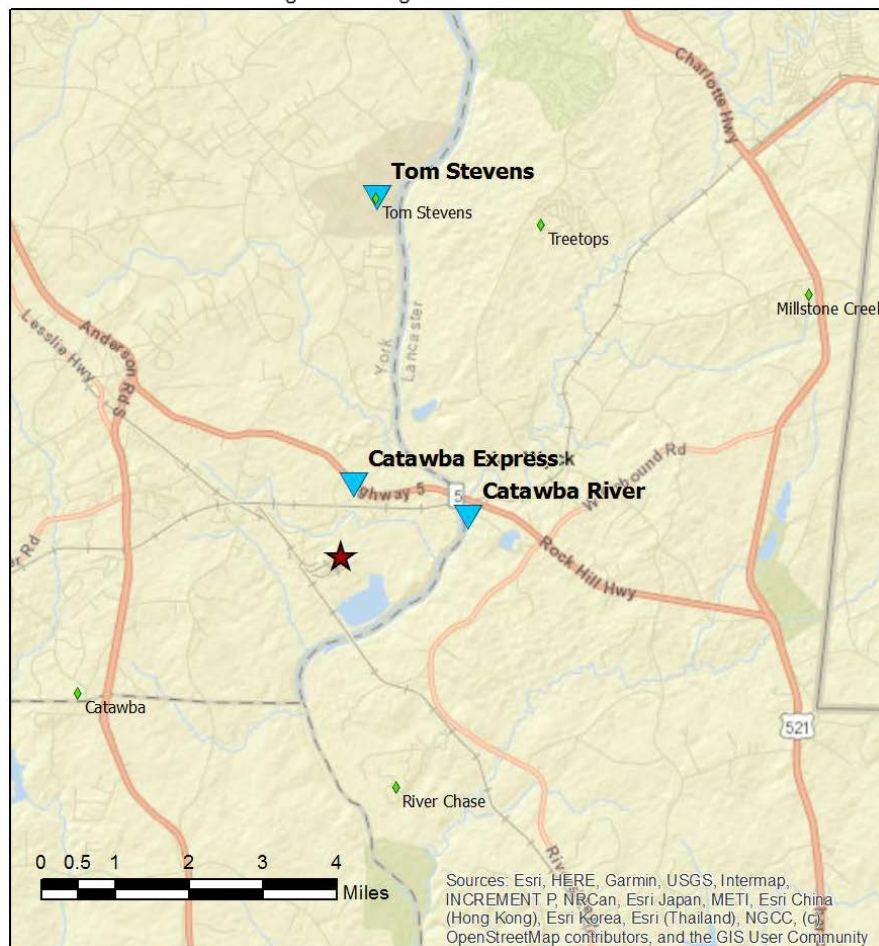
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	809	0 - 4 ppb	0.43 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)
- H<sub>2</sub>S 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 Average



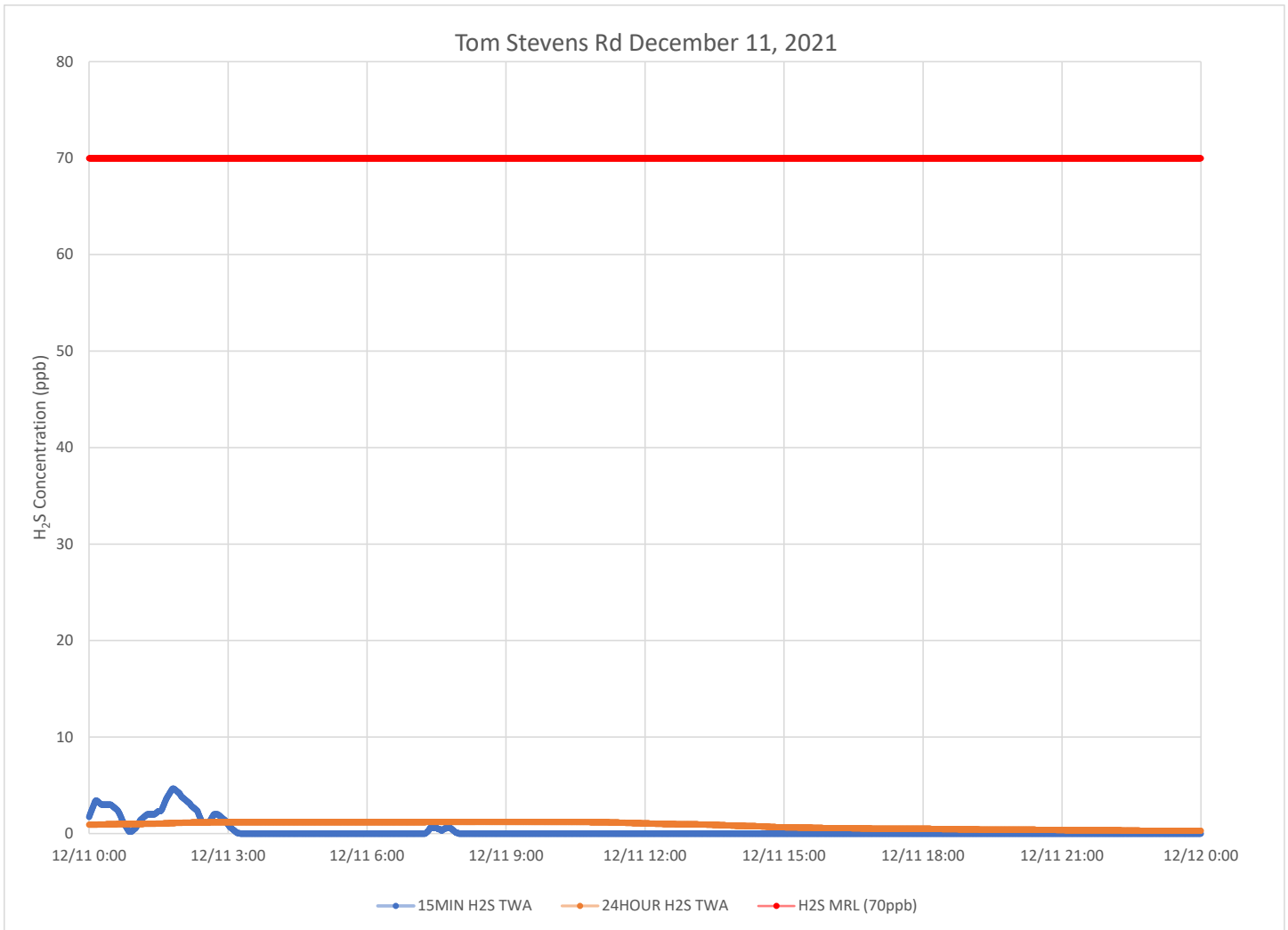
**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▼ DHEC Monitor

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The breeze was moderate to fresh throughout most of the day, predominantly from the south southwest to west southwest with a shift to from the north indicated around midnight.



### Notes:

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

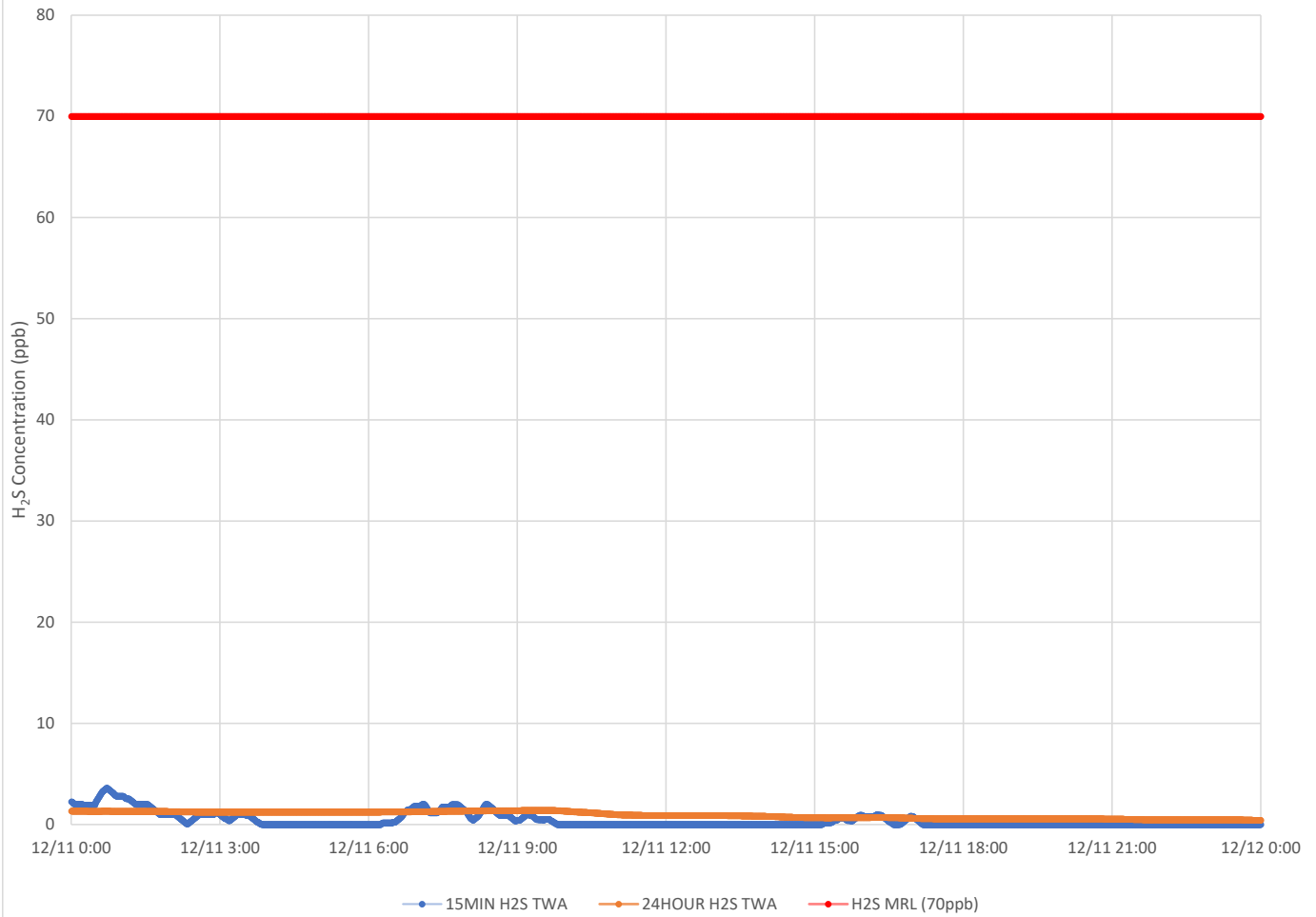
MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion



### Catawba Express December 11, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/12/21  
12:00 AM

**To:** 12/12/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

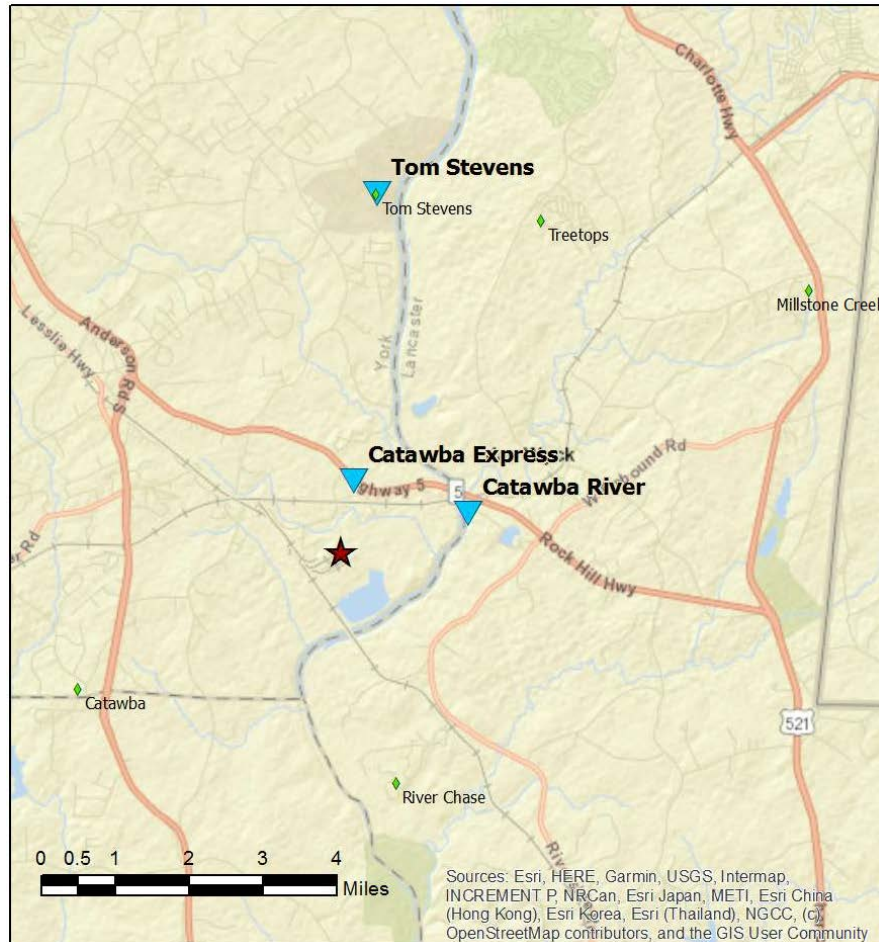
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	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)
- H<sub>2</sub>S 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 Average



**Legend**

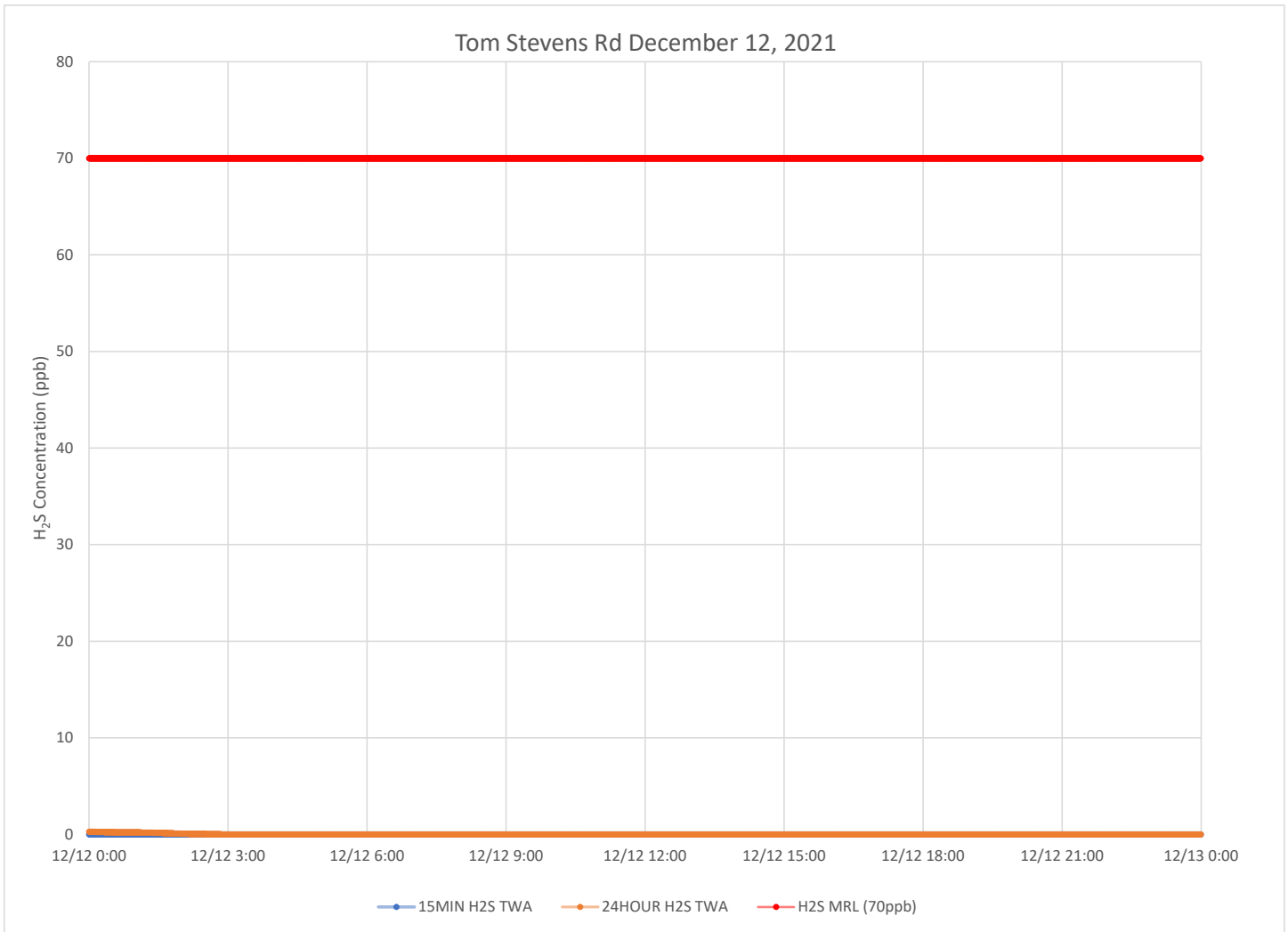
- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▲ DHEC Monitor

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The breeze was light to gentle from the north through late afternoon, then becoming calm for the remainder of the period.



### Notes:

Time is Eastern Standard Time

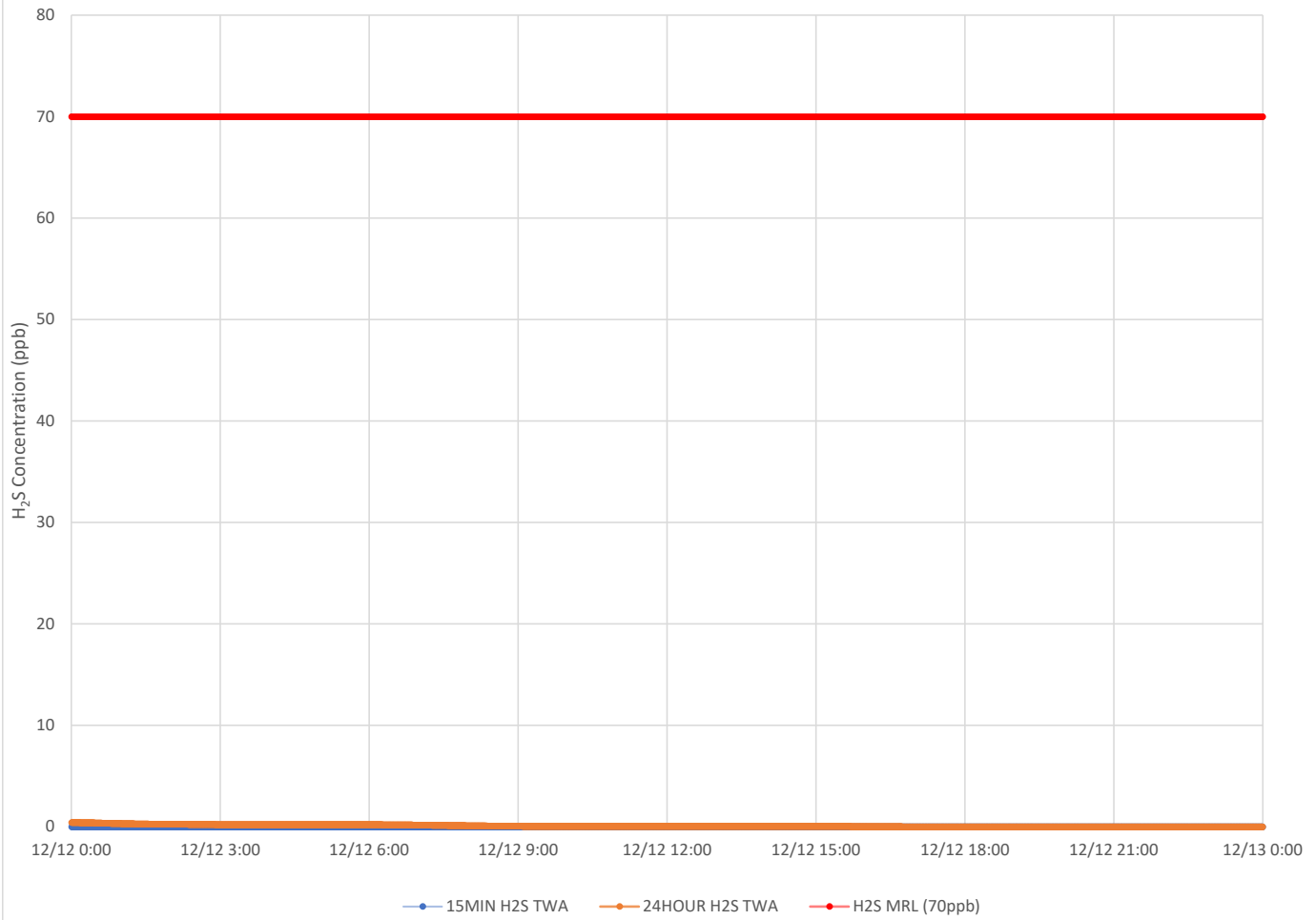
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 12, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/13/21  
12:00 AM

**To:** 12/13/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

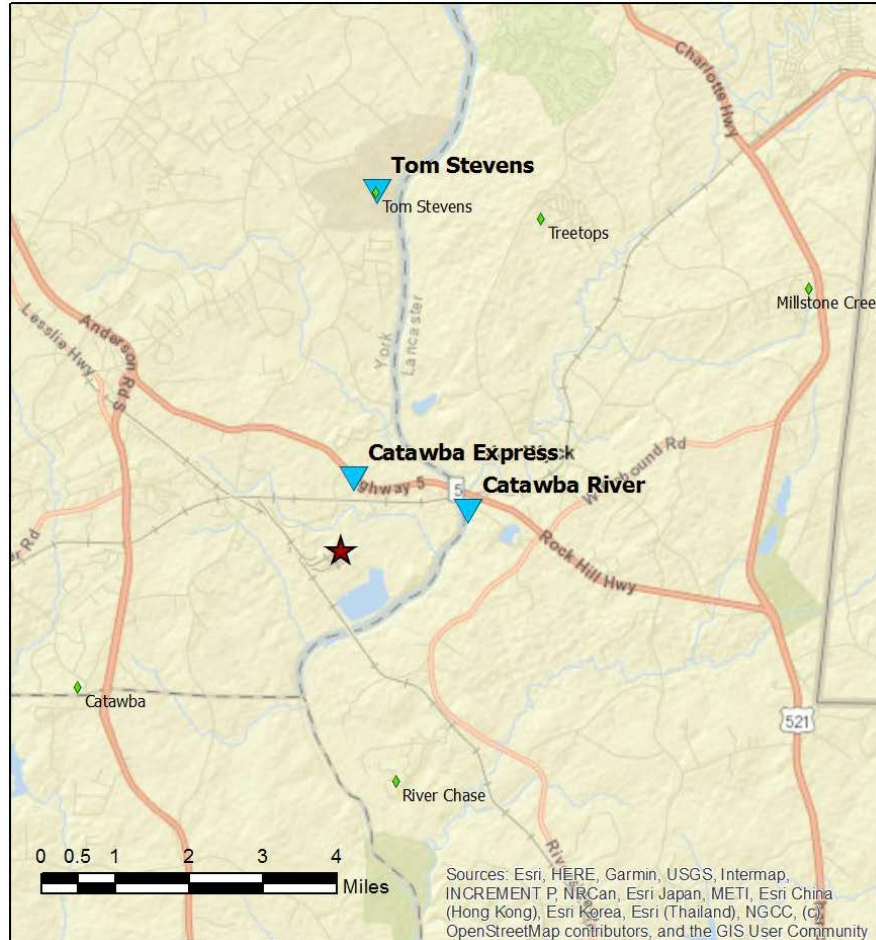
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	635	0 - 17 ppb	0.95 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)
- H<sub>2</sub>S 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 Average



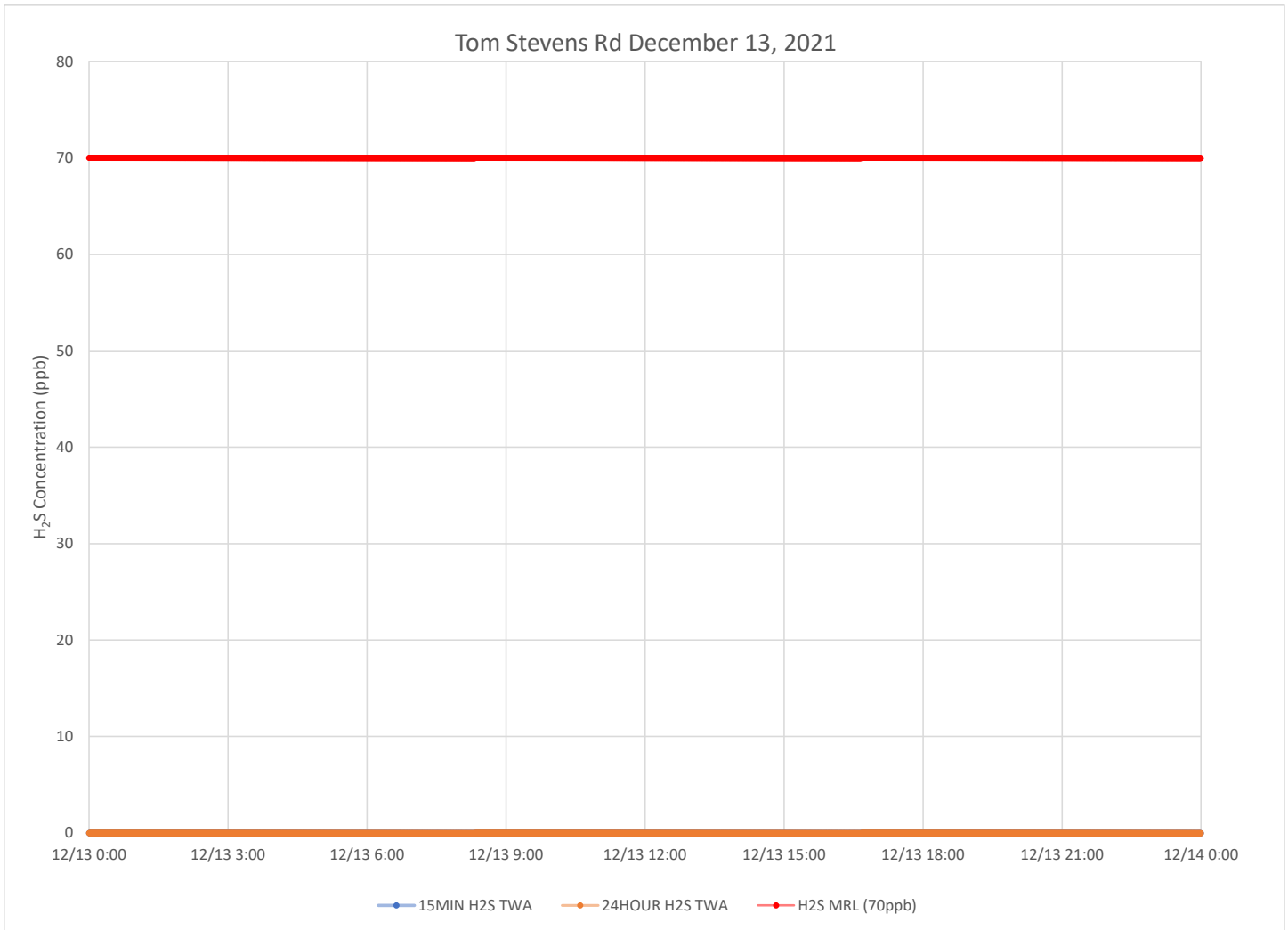
**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▼ DHEC Monitor

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was calm during the morning and evening. During the daylight hours, wind was light and variable, observed at times from the north northeast, north west, southwest, and south.



### Notes:

Time is Eastern Standard Time

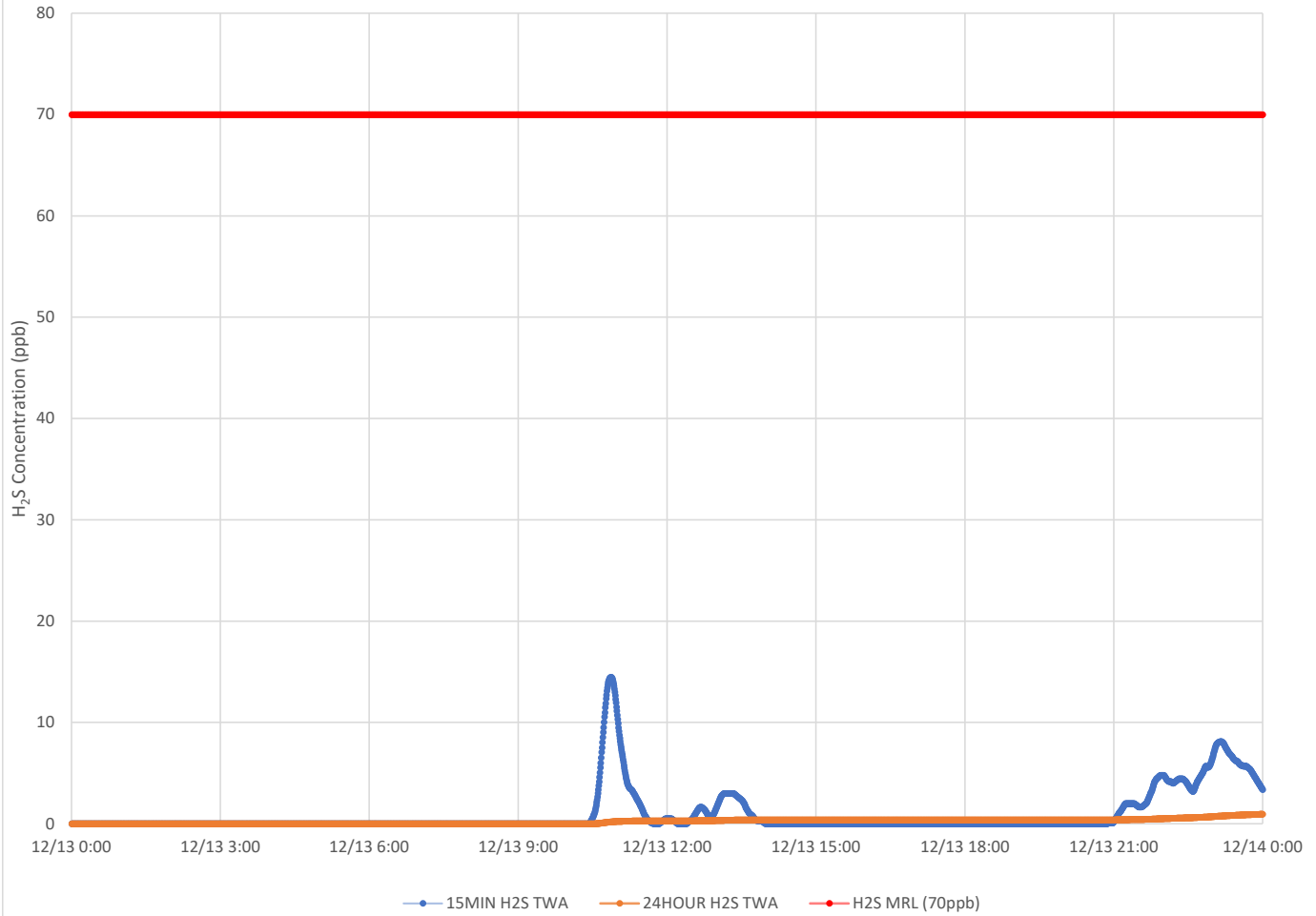
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 13, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/14/21  
12:00 AM

**To:** 12/14/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2865	0	0 - 0 ppb	0 ppb	70 ppb

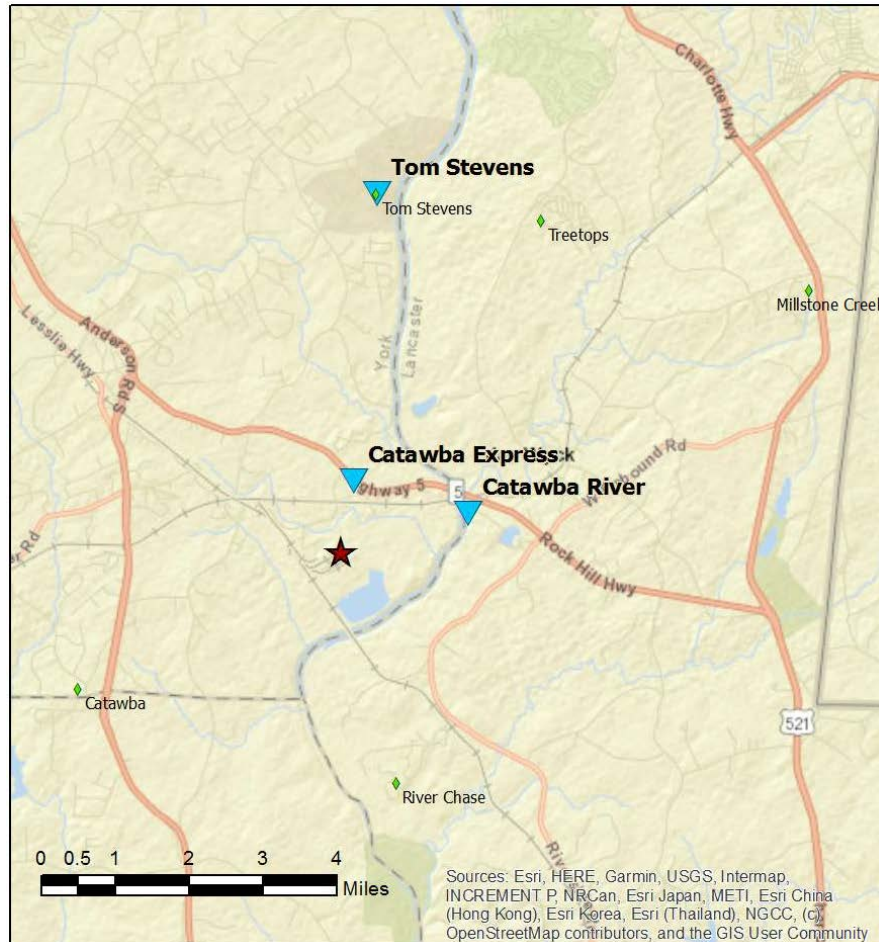
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	991	0 - 24 ppb	2.71 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)
- H<sub>2</sub>S 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 Average



**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▲ DHEC Monitor

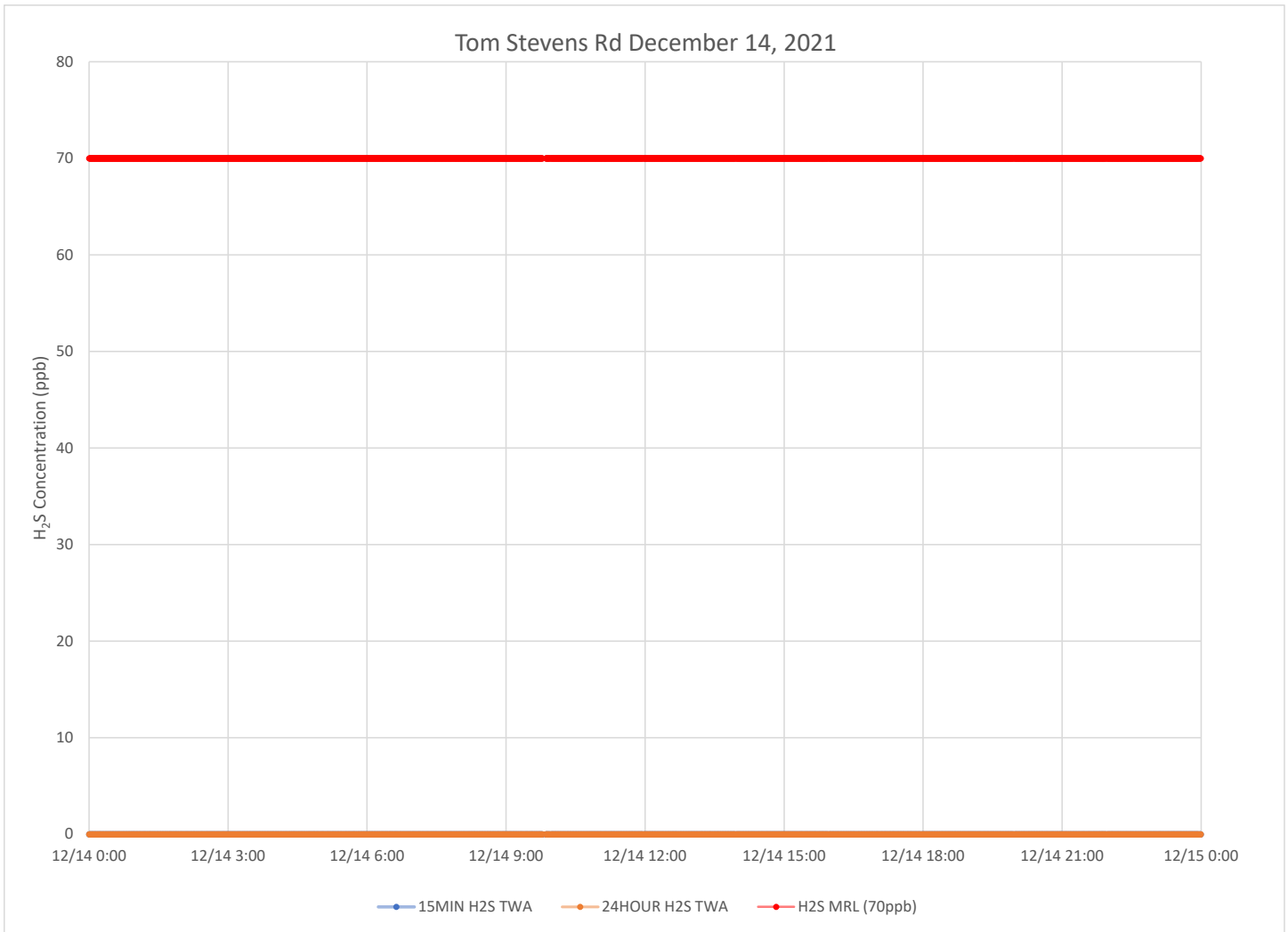
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was calm during the morning and evening. During the daylight hours, wind was light and variable, primarily from the east northeast to east southeast.



### Notes:

Time is Eastern Standard Time

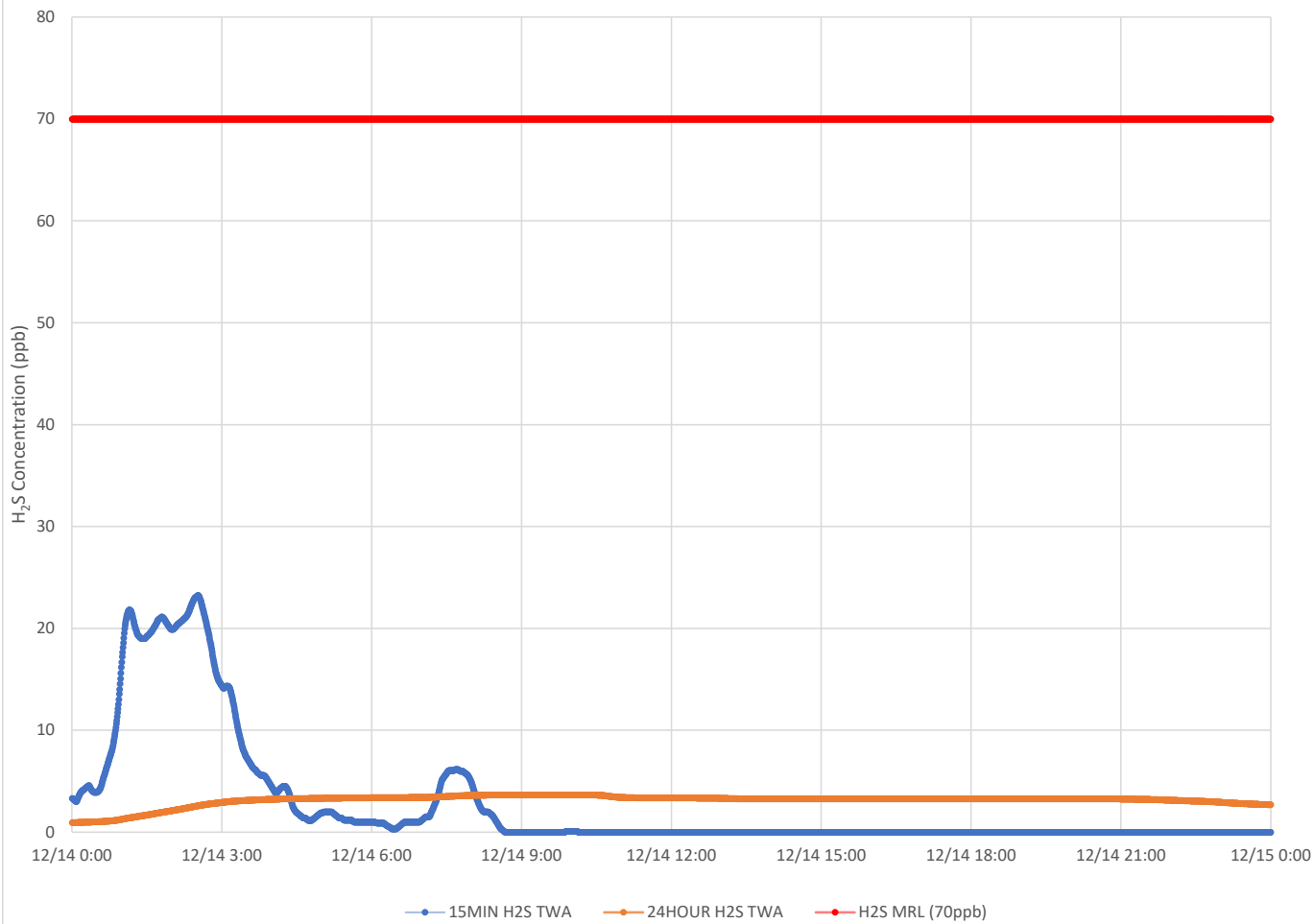
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 14, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

The Tom Stevens monitor was offline for maintenance for approximately 2 hours midday.  
 The Period Average for that monitor is for a period of 22 hours.

## Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/15/21  
 12:00 AM

**To:** 12/15/21  
 11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2624	0	0 - 0 ppb	0 ppb	70 ppb

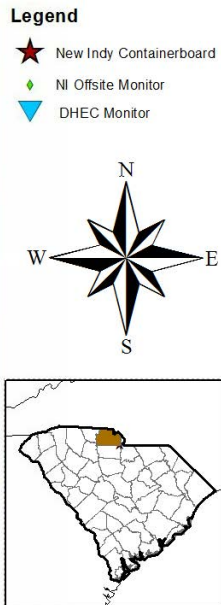
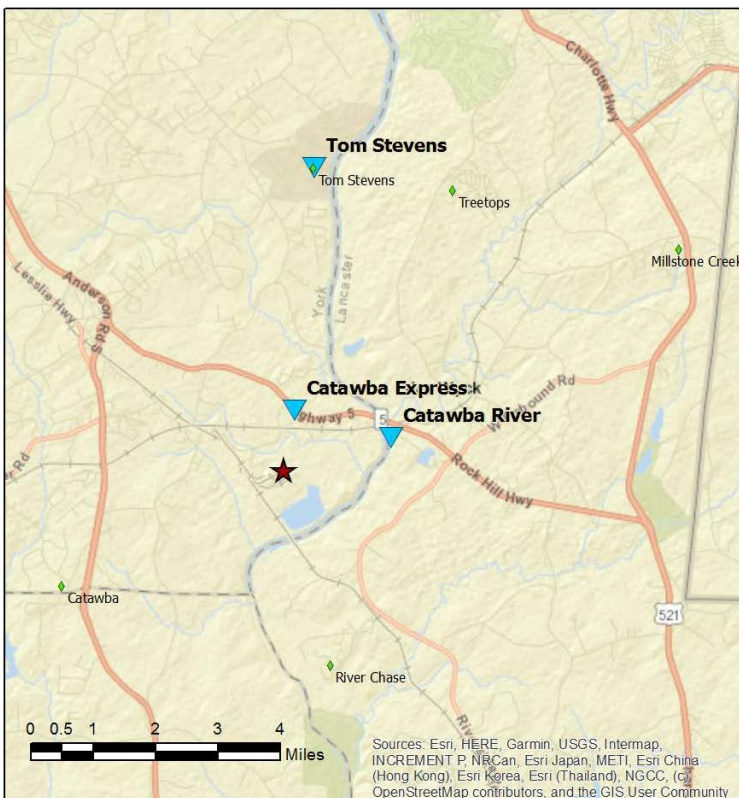
Catawba River Monitor Off line							
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Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2870	516	0 - 5 ppb	0.33 ppb	70 ppb

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

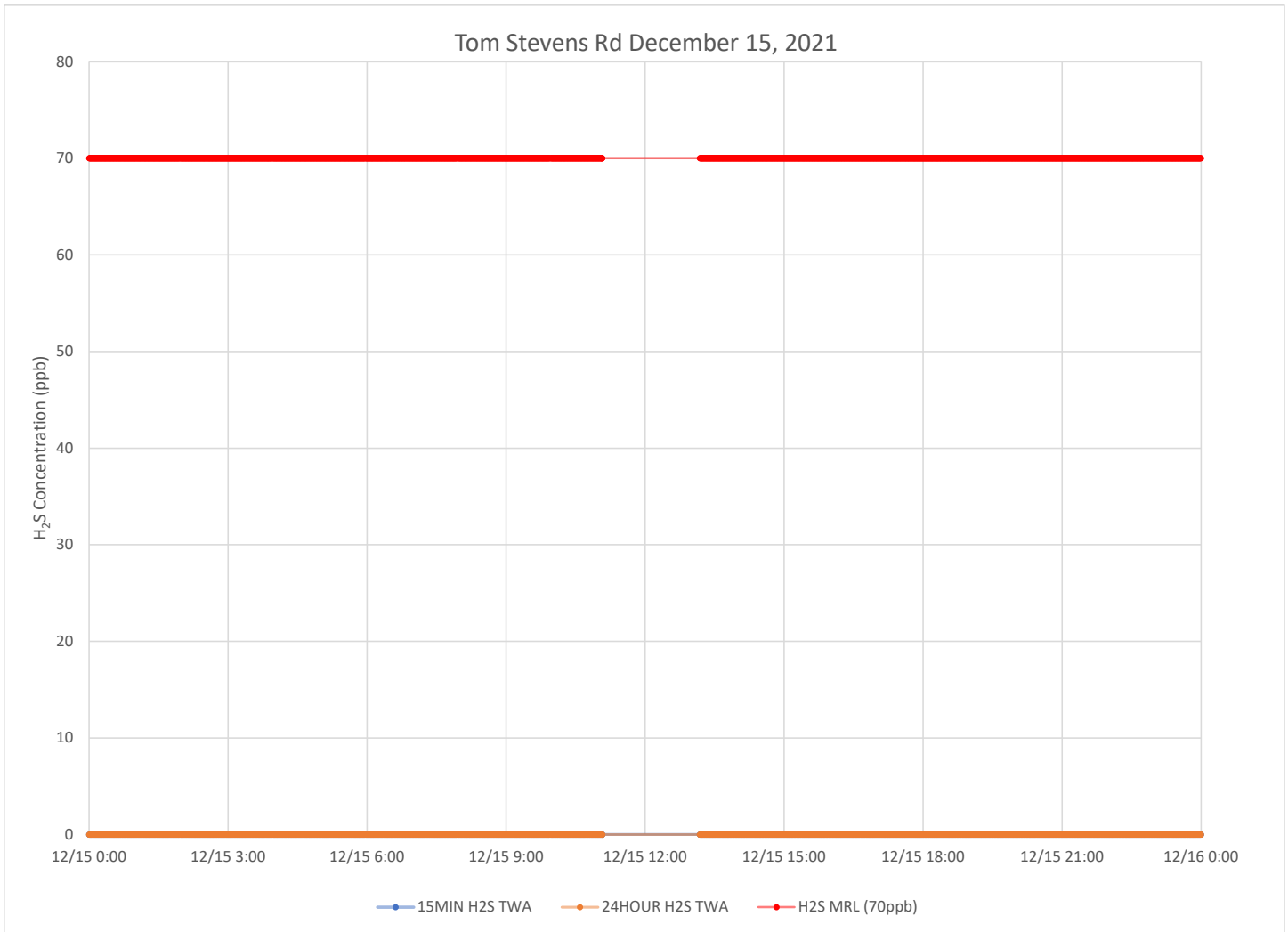
- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S Hydrogen Sulfide
- hr Hour
- ppb Parts per billion
- MRL Exceedance Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- SPM Single Point Monitor
- TWA Time Weighted Average



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was calm throughout most of the period. During the daylight hours when wind was recorded, it was coming from the north northwest to northeast.



### Notes:

Time is Eastern Standard Time

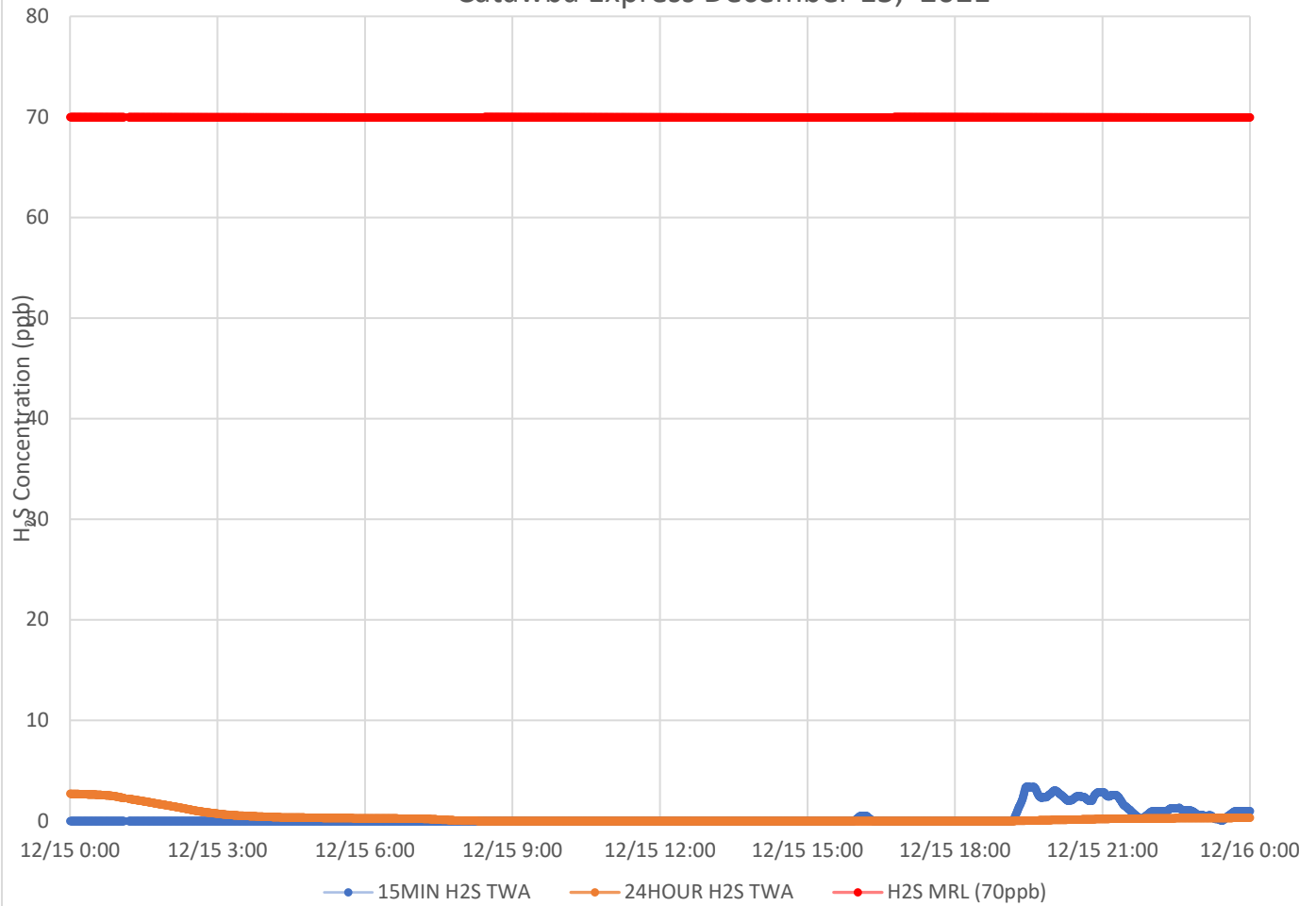
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

# Catawba Express December 15, 2021



## Notes:

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/16/21  
12:00 AM

**To:** 12/16/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	119	0 - 5 ppb	0.13 ppb	70 ppb

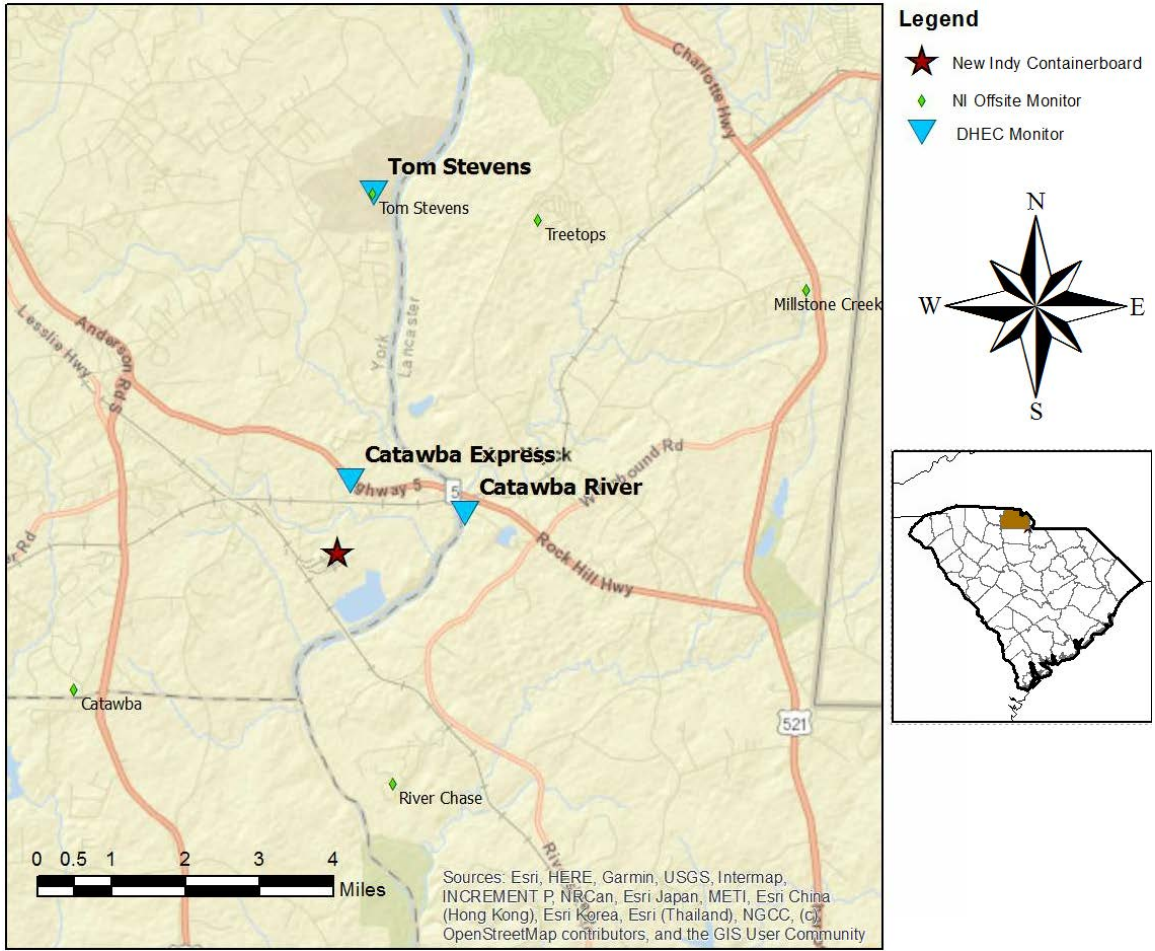
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	611	0 - 48 ppb	1.12 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.

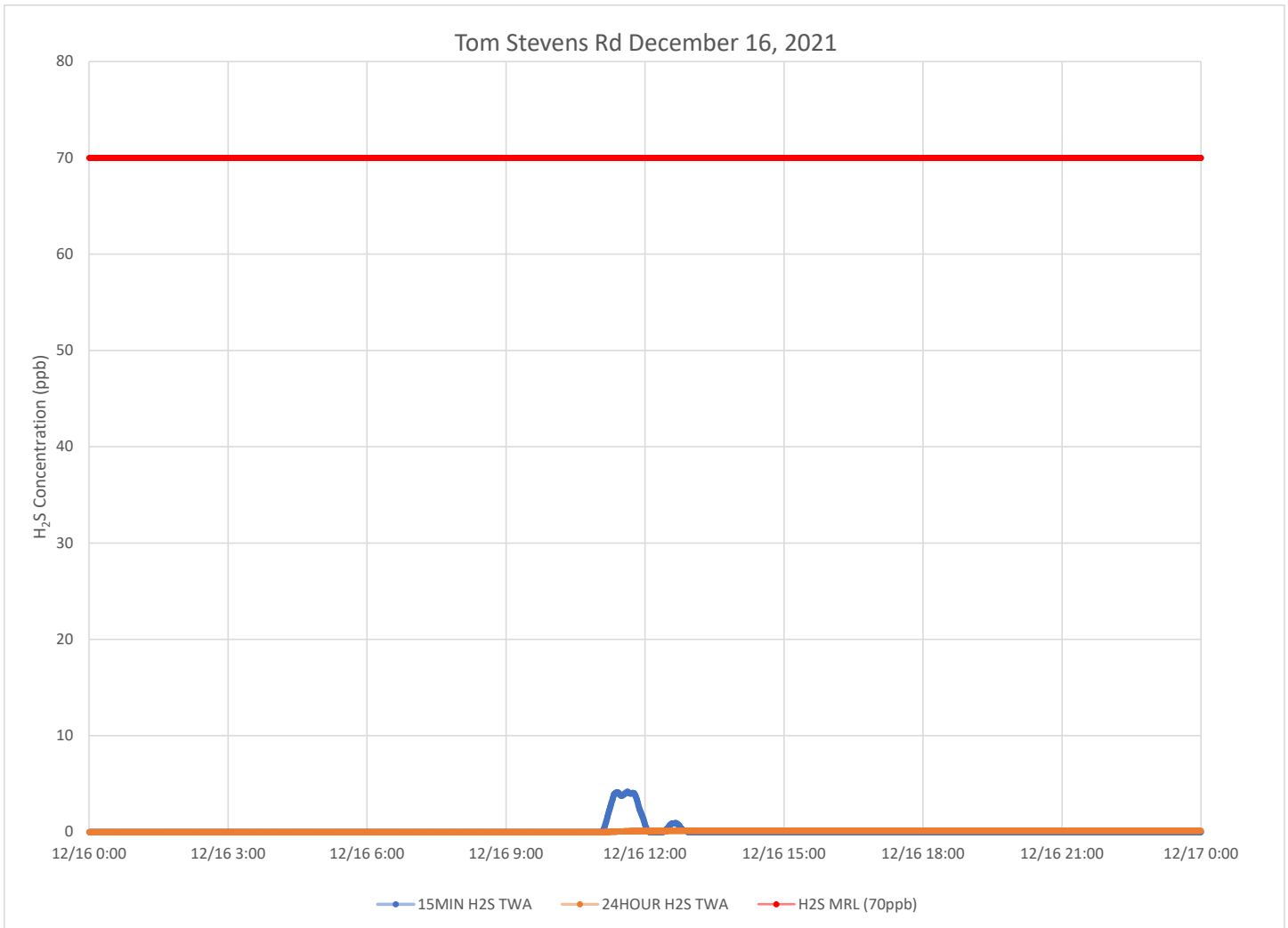
- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S Hydrogen Sulfide
- hr Hour
- ppb Parts per billion
- MRL Exceedance Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- SPM Single Point Monitor
- TWA Time Weighted Average



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was calm through about 9AM and became steady from the south southwest to southwest for the remainder of the period.



### Notes:

Time is Eastern Standard Time

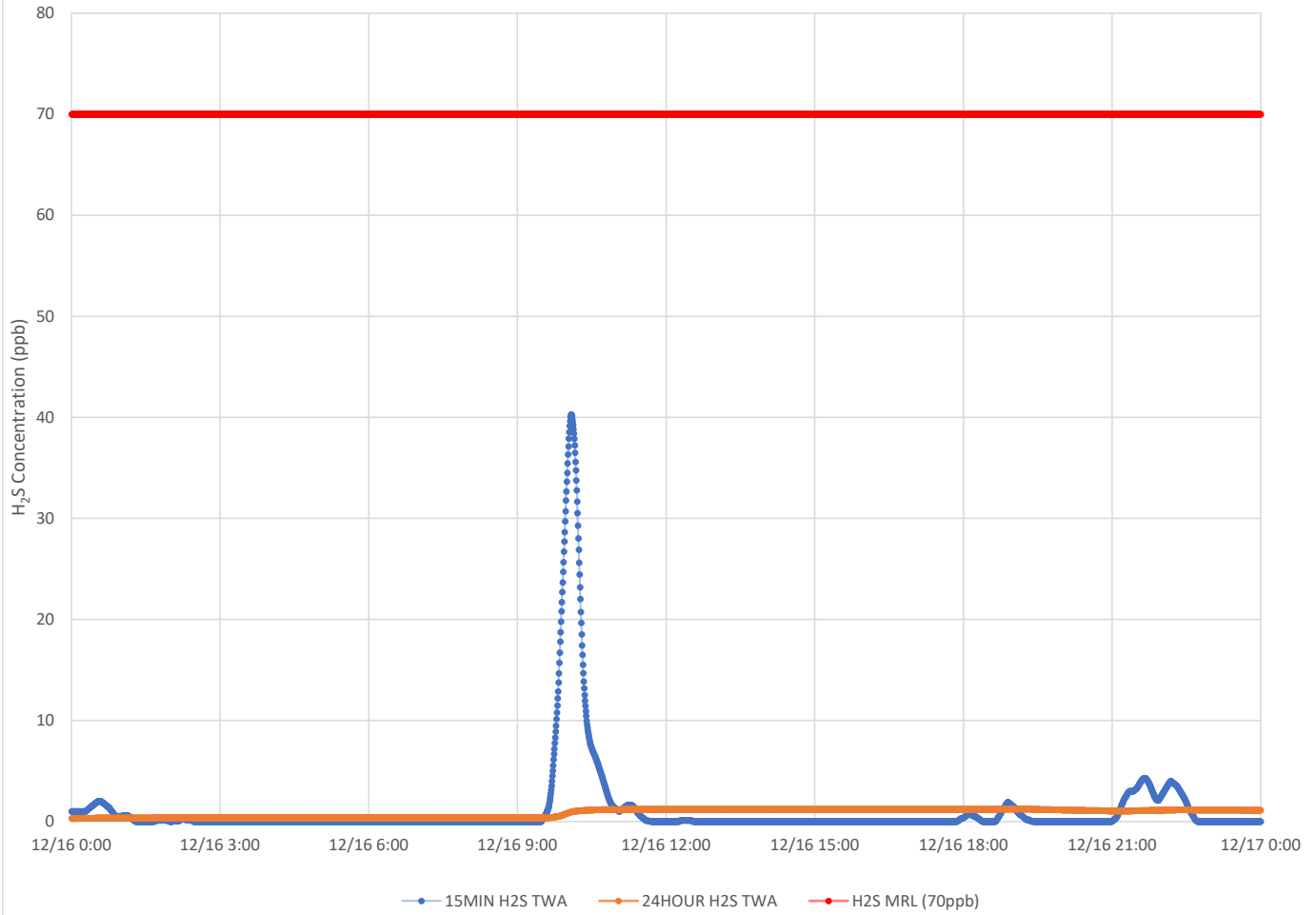
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 16, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion



# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/17/21  
12:00 AM

**To:** 12/17/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

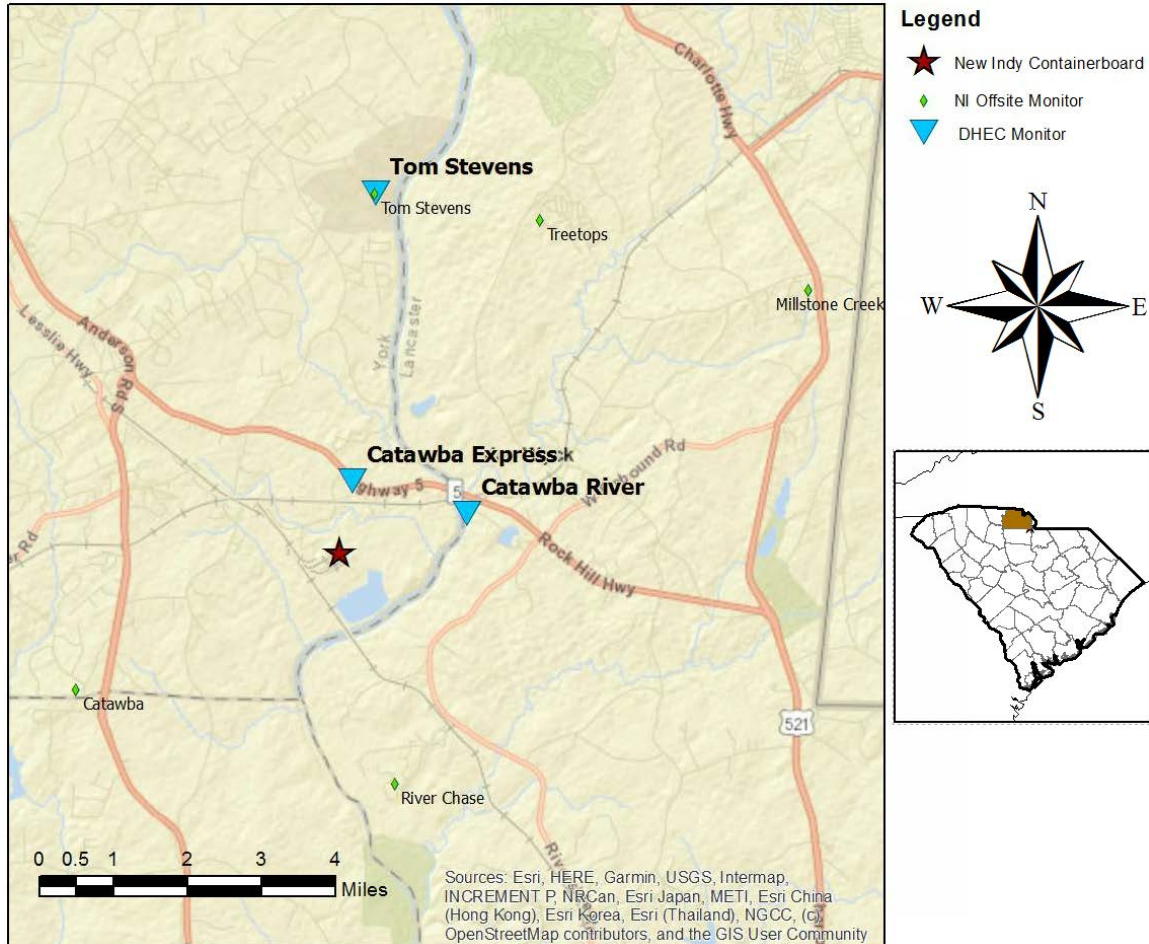
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	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.

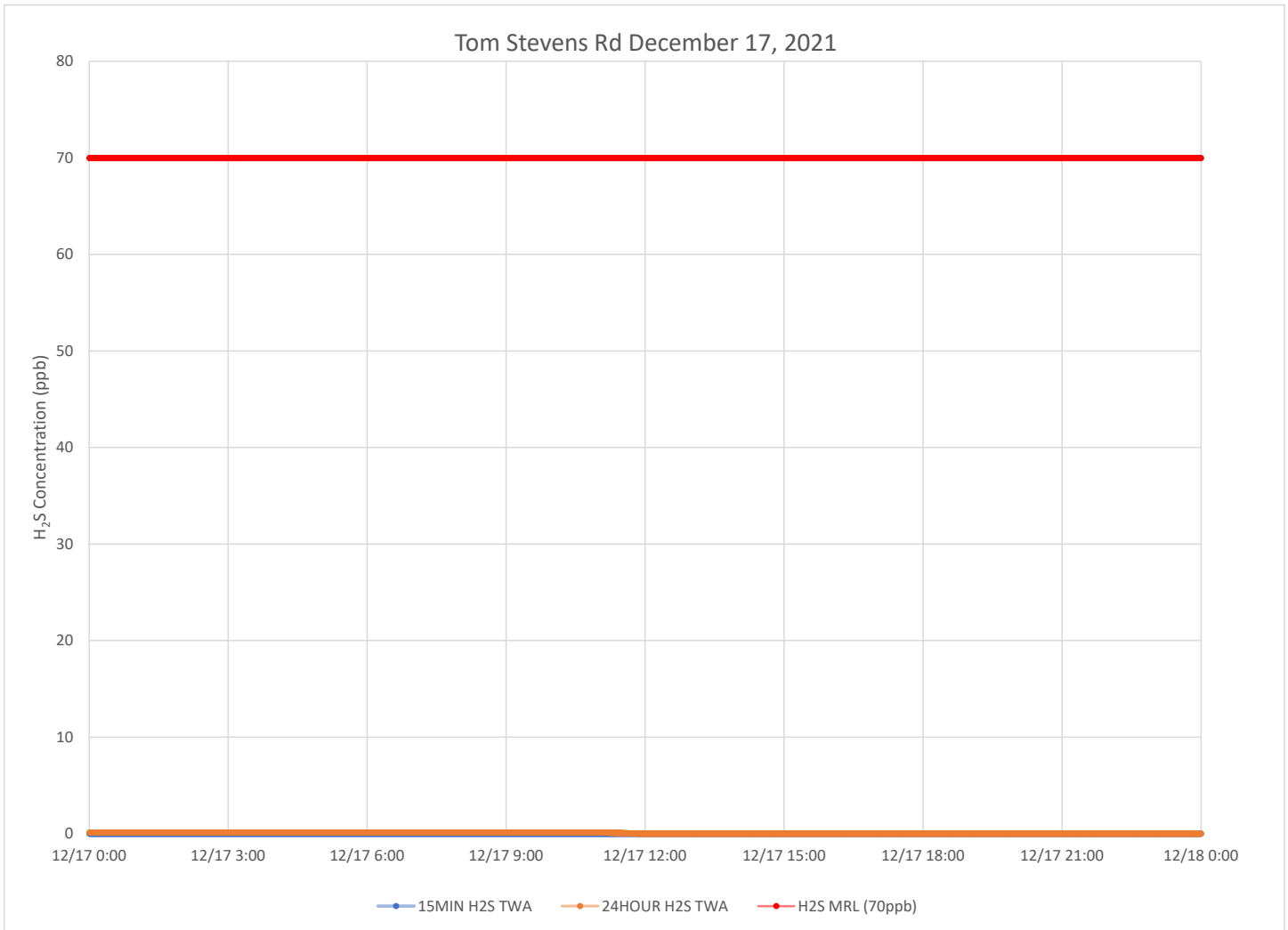
- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S Hydrogen Sulfide
- hr Hour
- ppb Parts per billion
- MRL Exceedance Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- SPM Single Point Monitor
- TWA Time Weighted Average



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind for this period was from the south southwest to west.



### Notes:

Time is Eastern Standard Time

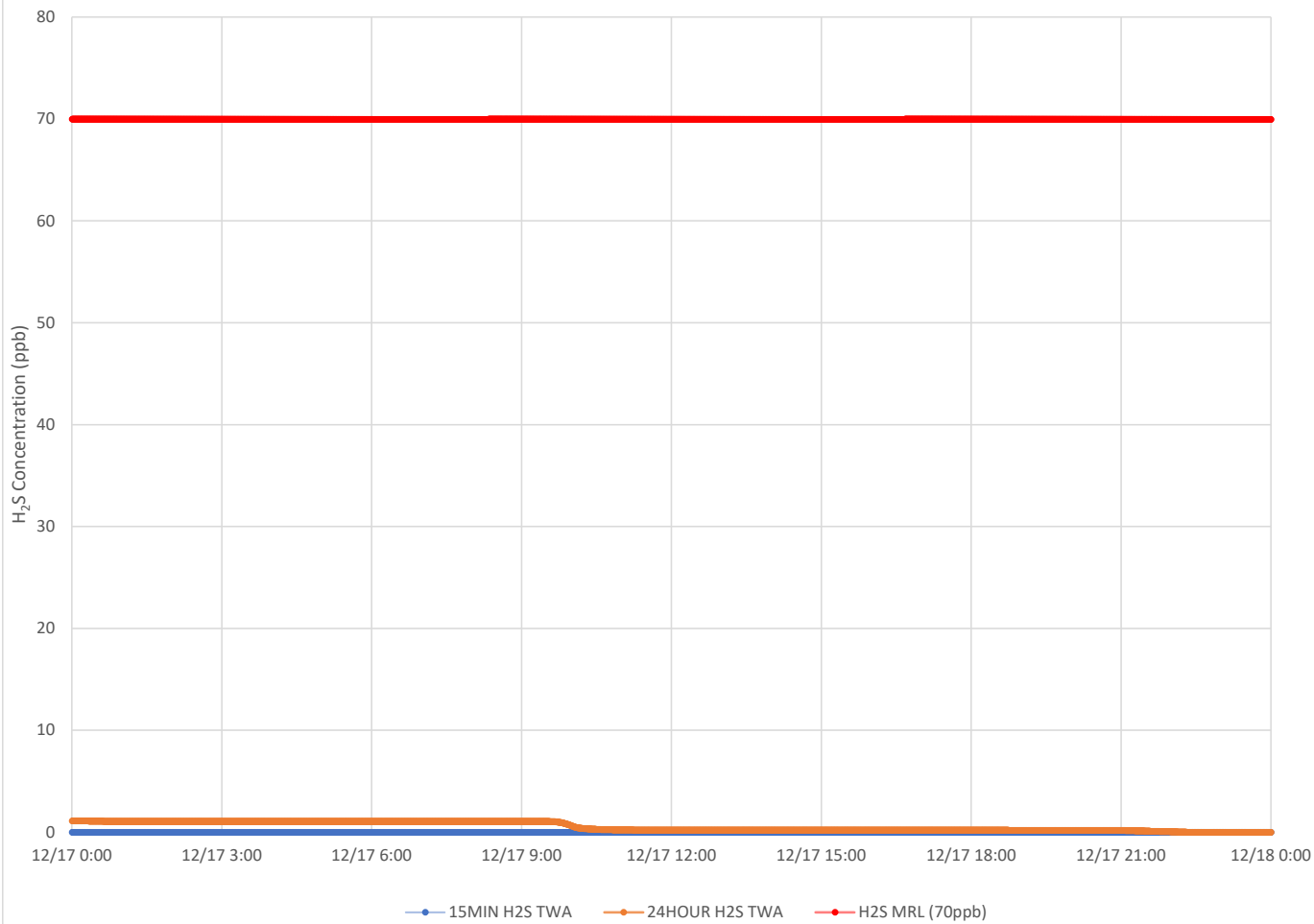
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 17, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/18/21  
12:00 AM

**To:** 12/18/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	312	0 - 7 ppb	0.27 ppb	70 ppb

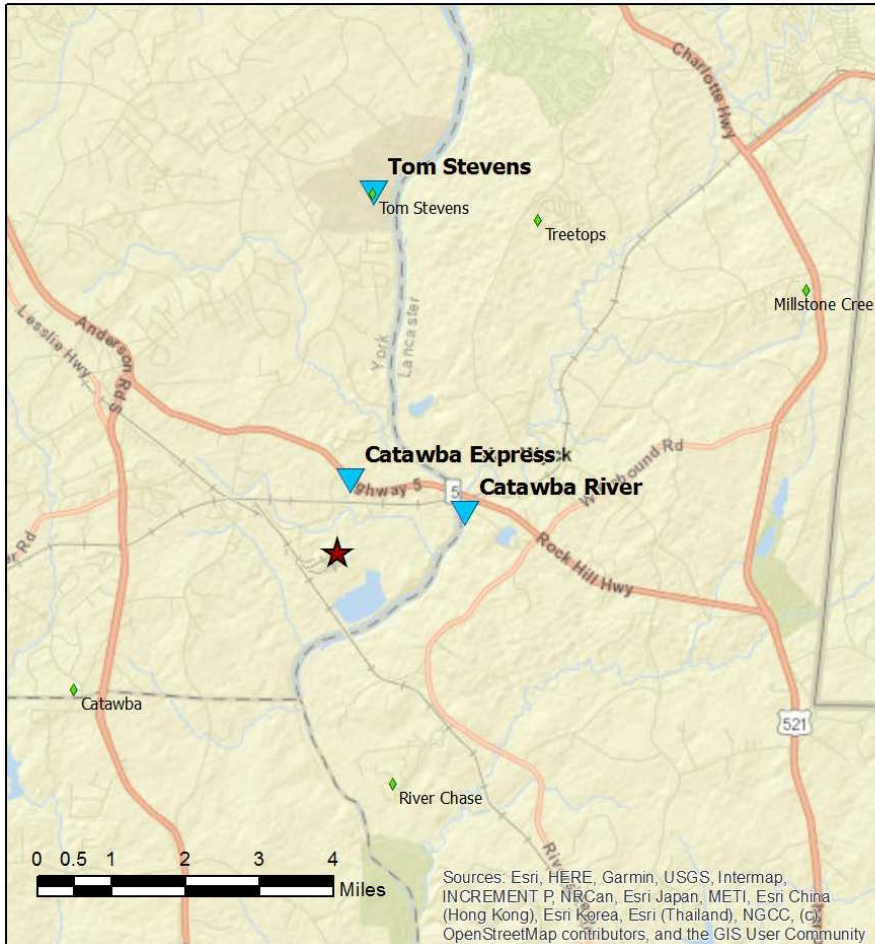
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	857	0 - 5 ppb	0.49 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)
- H<sub>2</sub>S 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 Average



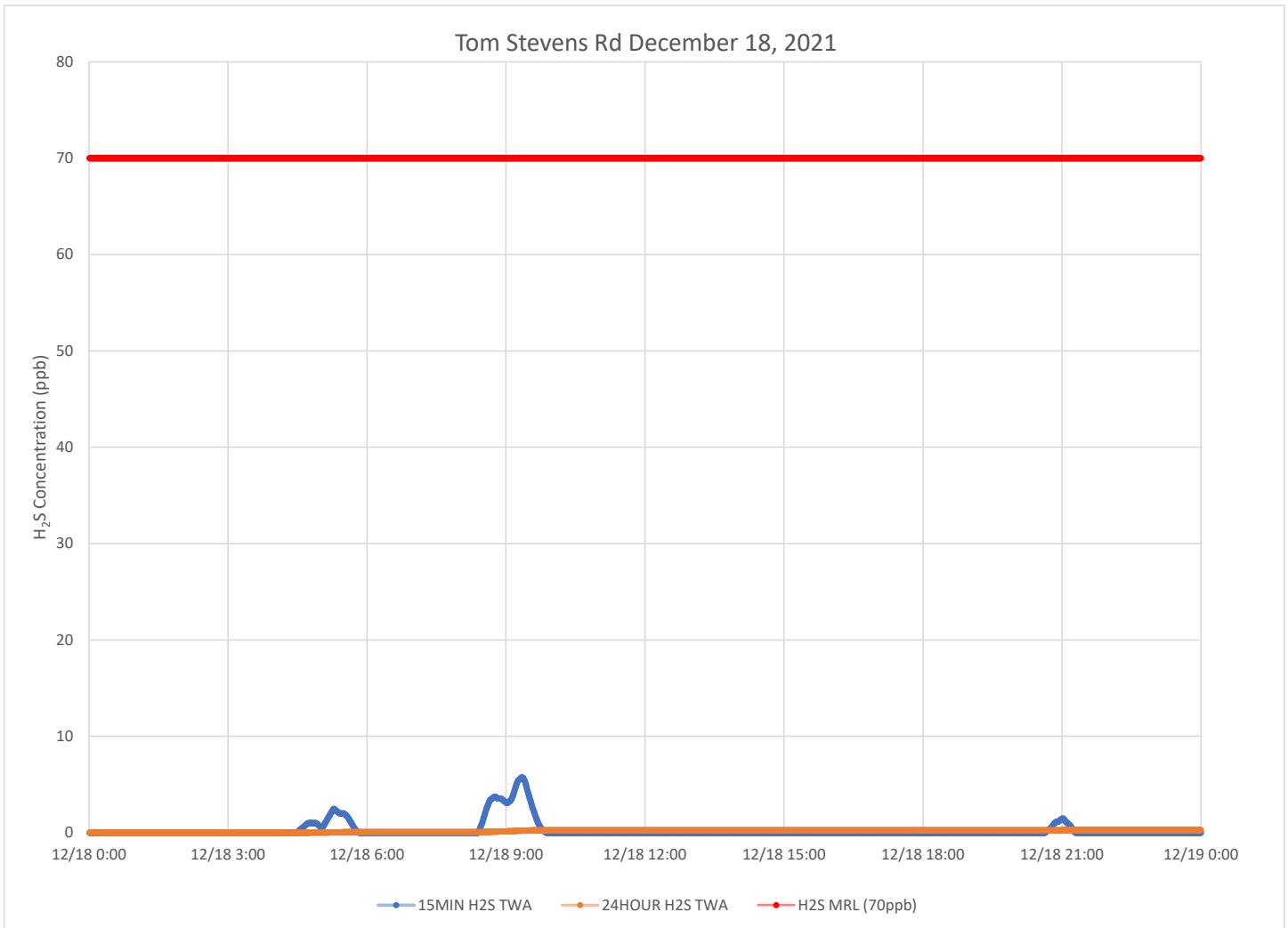
**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▲ DHEC Monitor

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind for this period was from the south to southwest throughout most of the period, with short periods in the late afternoon to early evening with winds from the west to west northwest.



### Notes:

Time is Eastern Standard Time

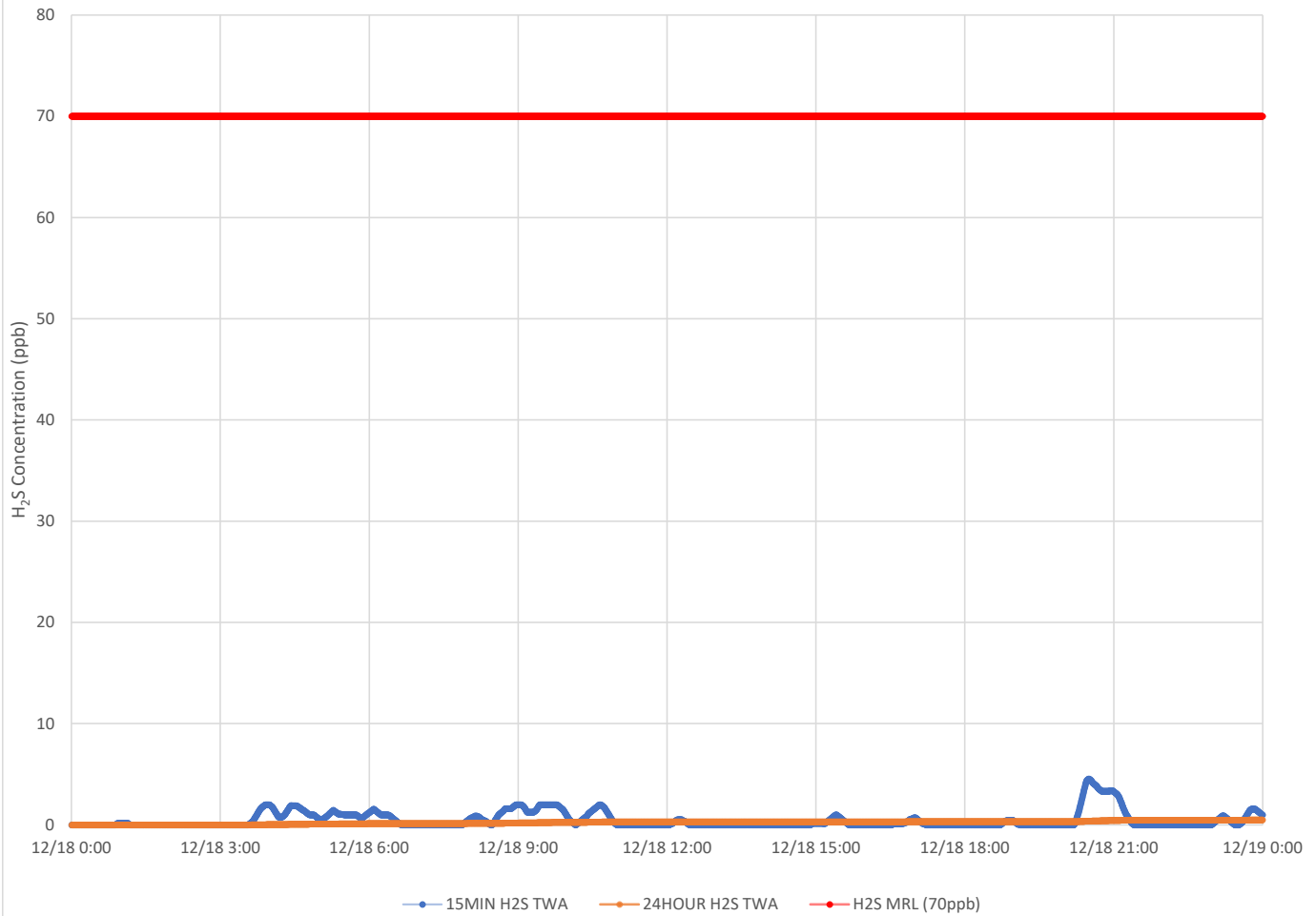
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 18, 2021



#### Notes:

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/19/21  
12:00 AM

**To:** 12/19/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	57	0 - 5 ppb	0.04 ppb	70 ppb

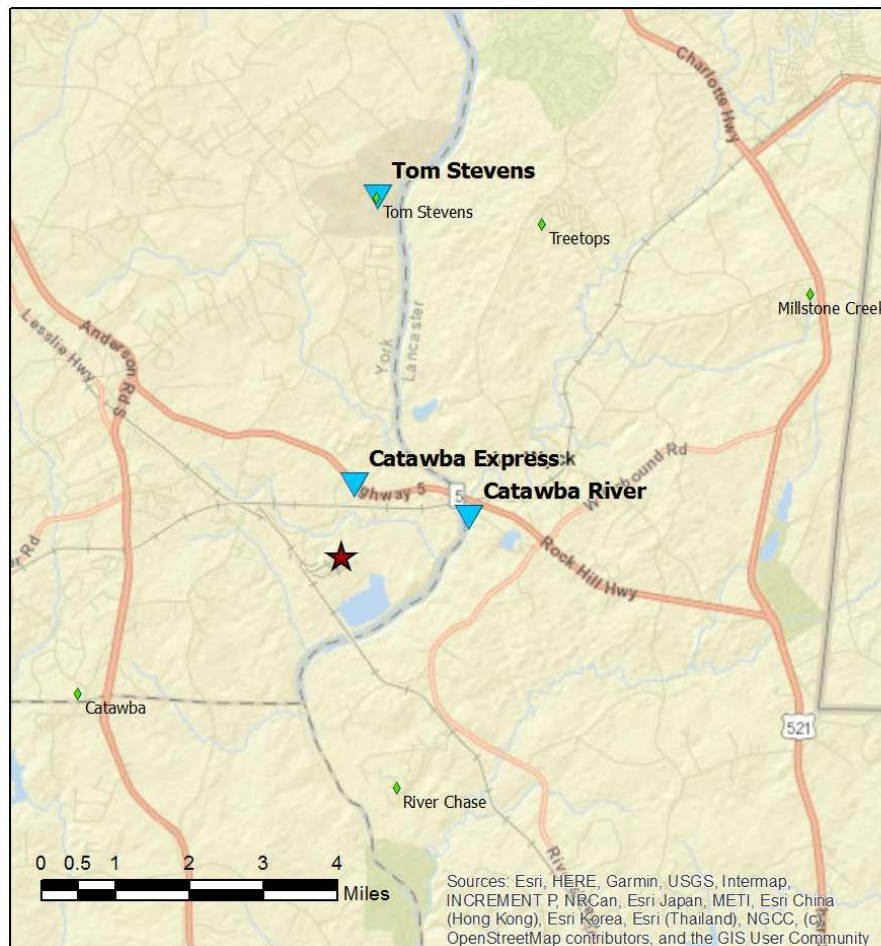
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	109	0 - 3 ppb	0.06 ppb	70 ppb

**Notes:**

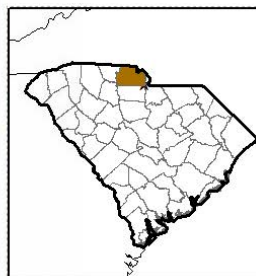
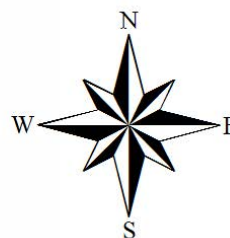
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S 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 Average



**Legend**

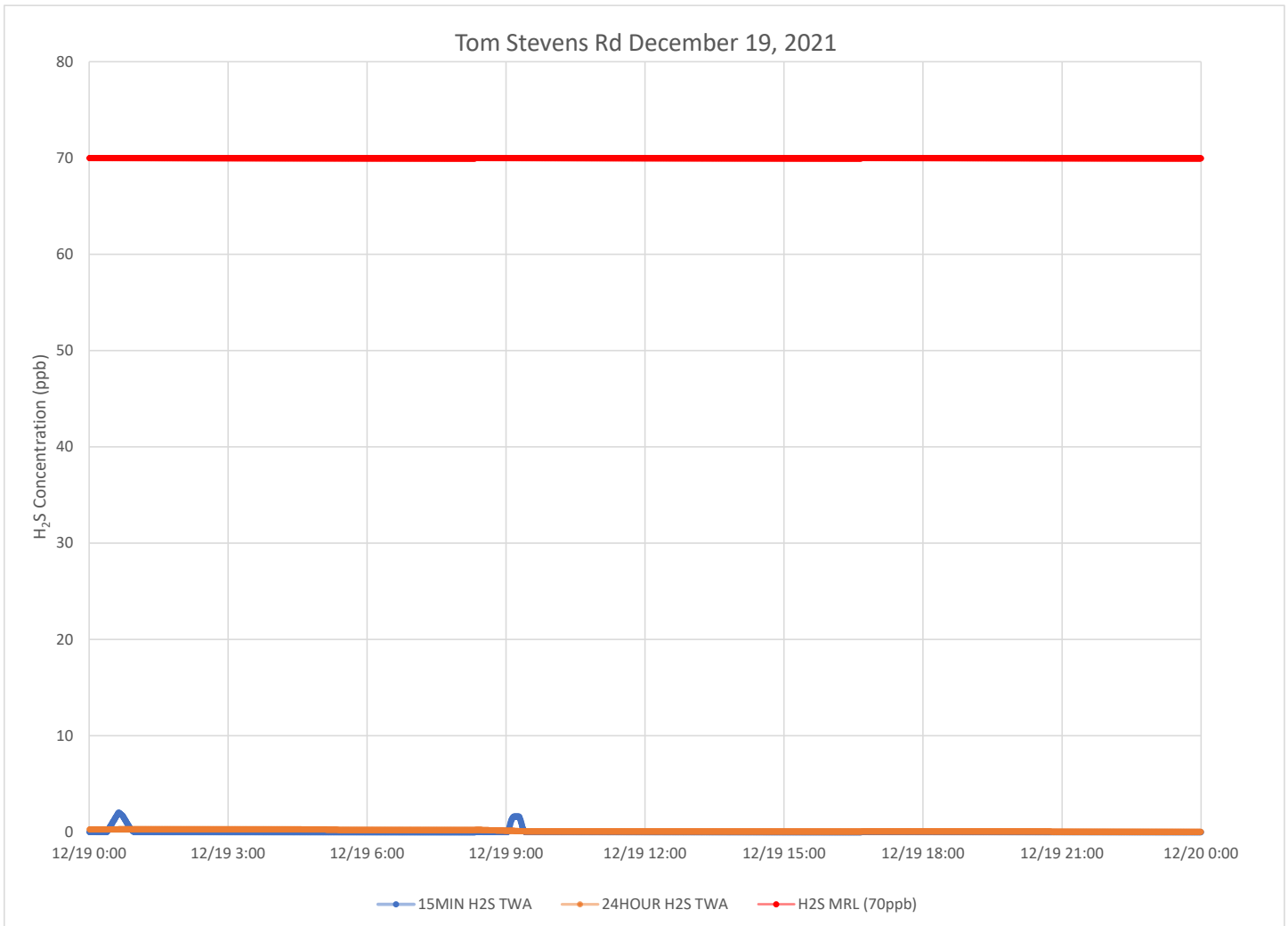
- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▲ DHEC Monitor



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was from the south to southwest in the early morning, shifting to from the north northeast to northeast through the end of the period.



### Notes:

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

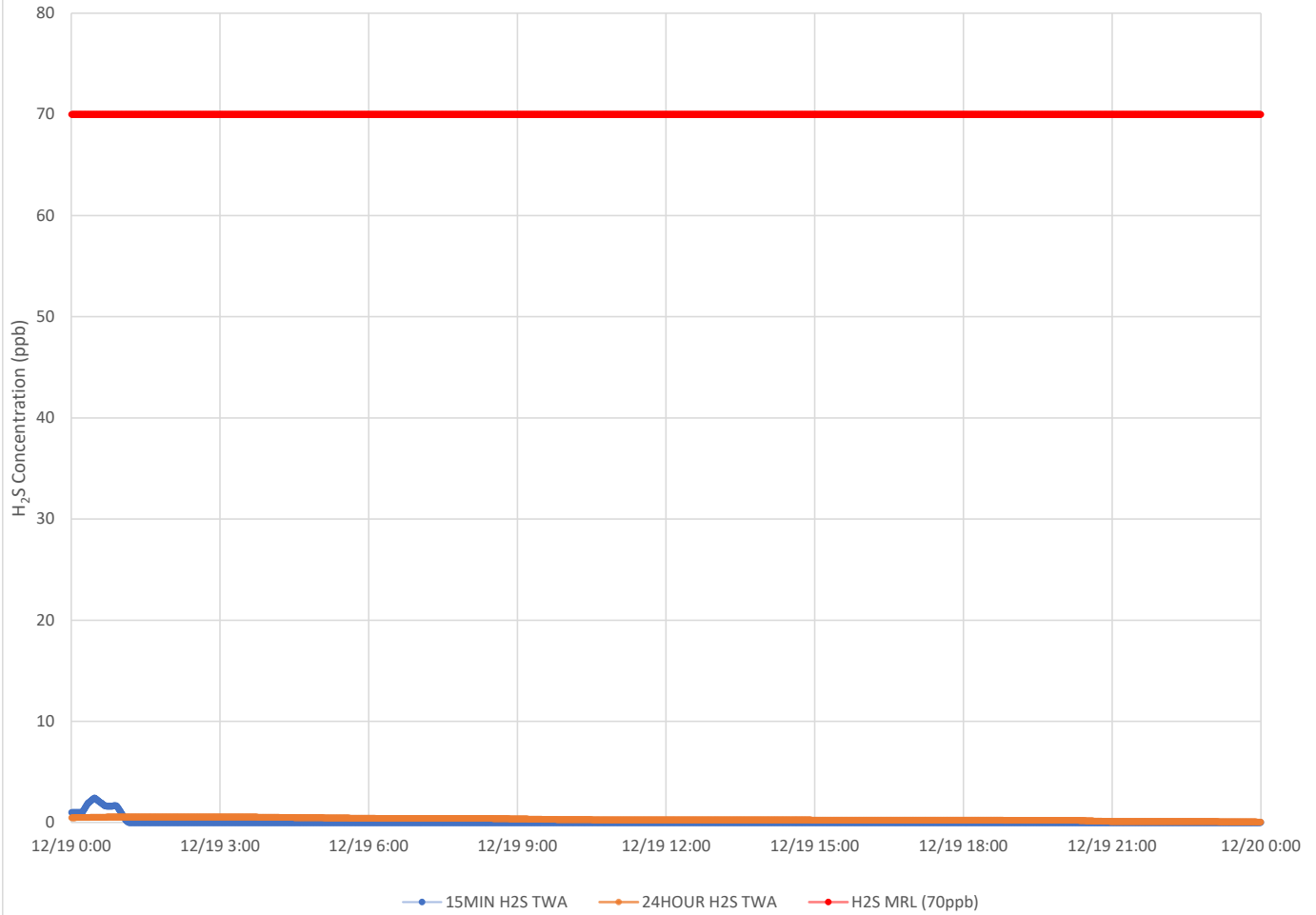
MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion



### Catawba Express December 19, 2021



#### Notes:

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/20/21  
12:00 AM

**To:** 12/20/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

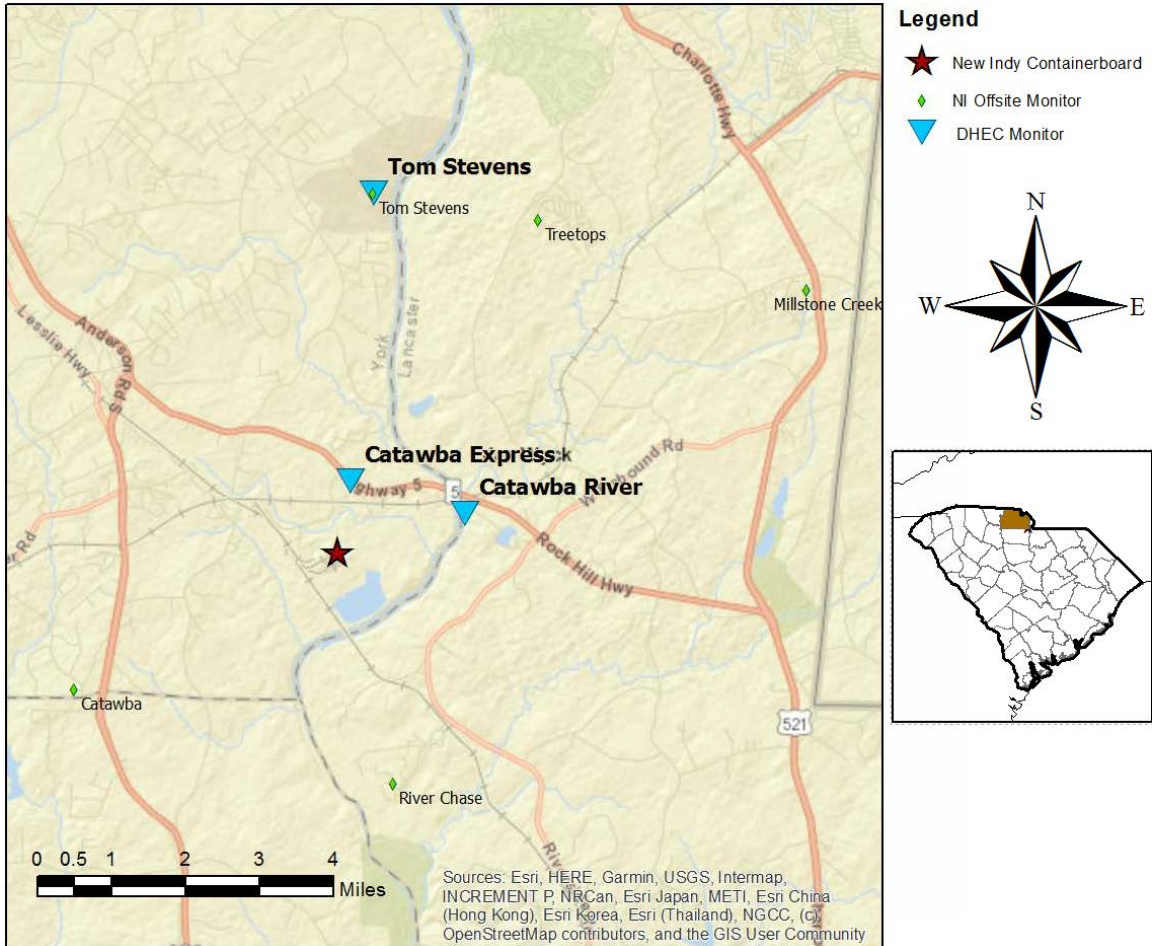
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	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.

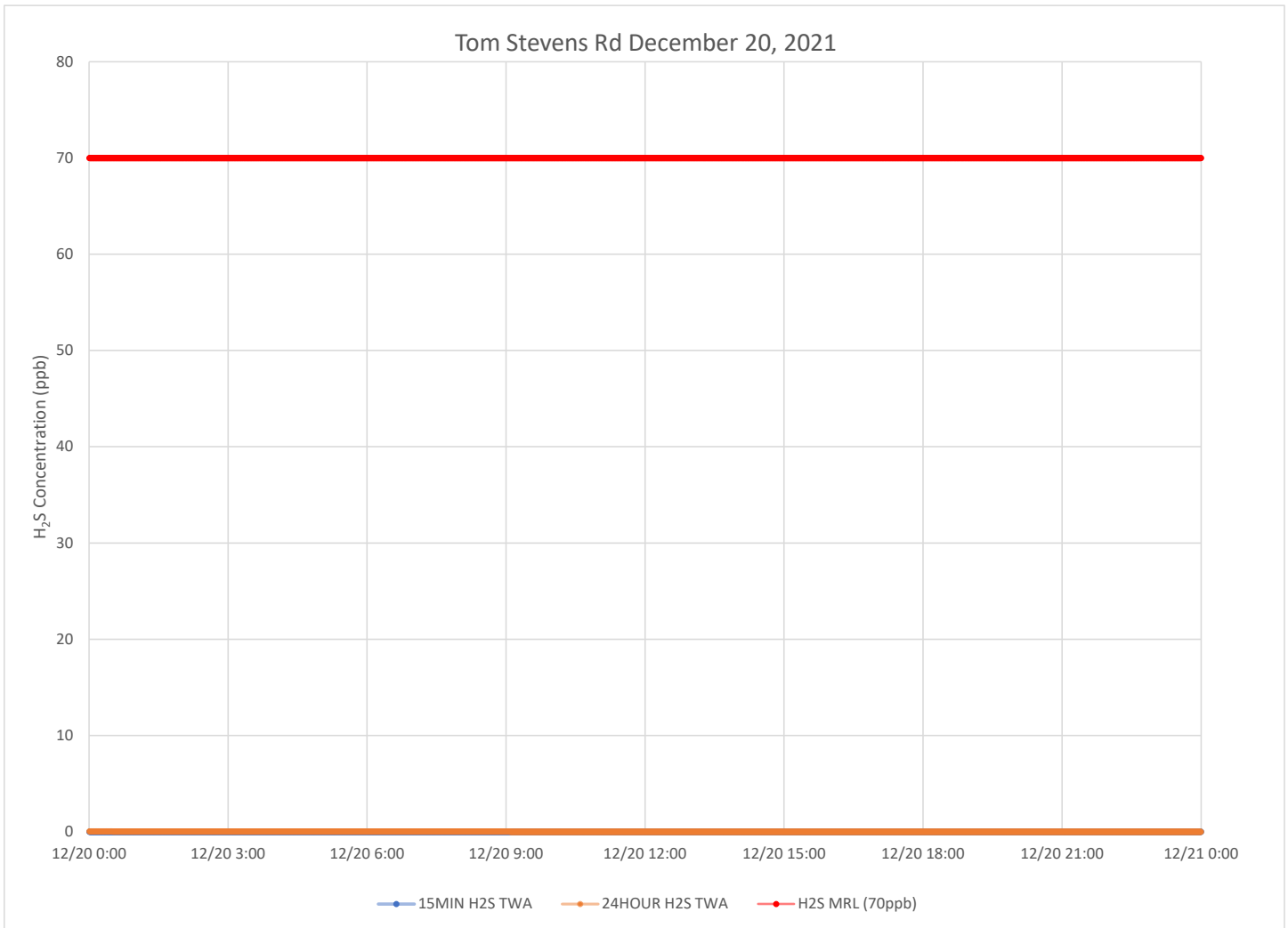
- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S Hydrogen Sulfide
- hr Hour
- ppb Parts per billion
- MRL Exceedance Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- SPM Single Point Monitor
- TWA Time Weighted Average



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was from the north northeast to northeast through midafternoon, becoming calm in the late afternoon through the evening.



### Notes:

Time is Eastern Standard Time

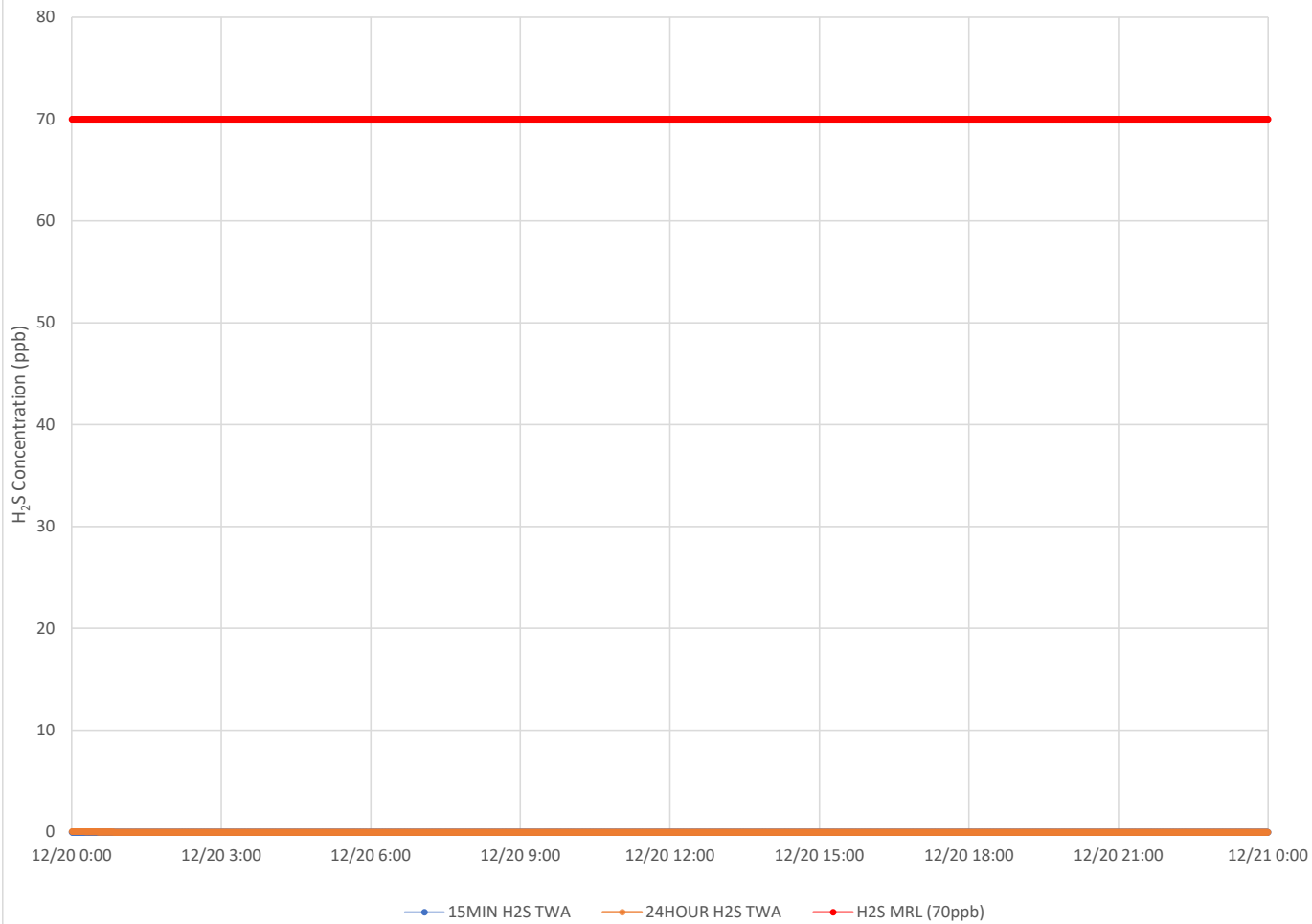
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 20, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/21/21  
12:00 AM

**To:** 12/21/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

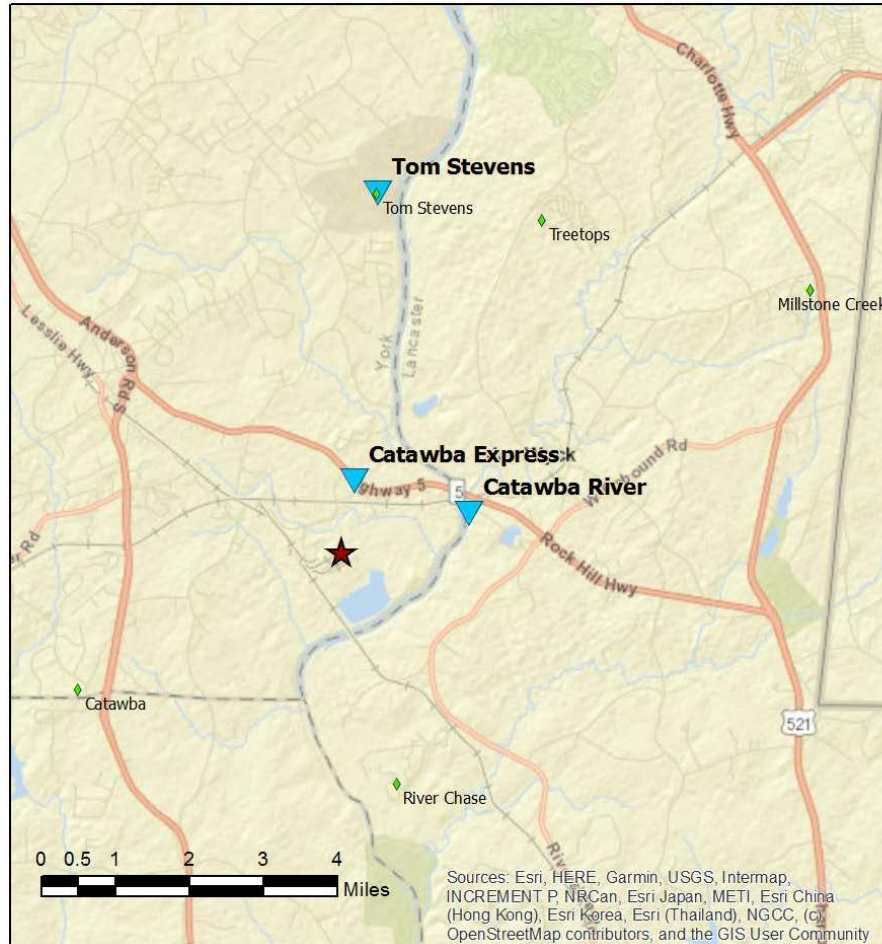
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	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)
- H<sub>2</sub>S 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 Average



**Legend**

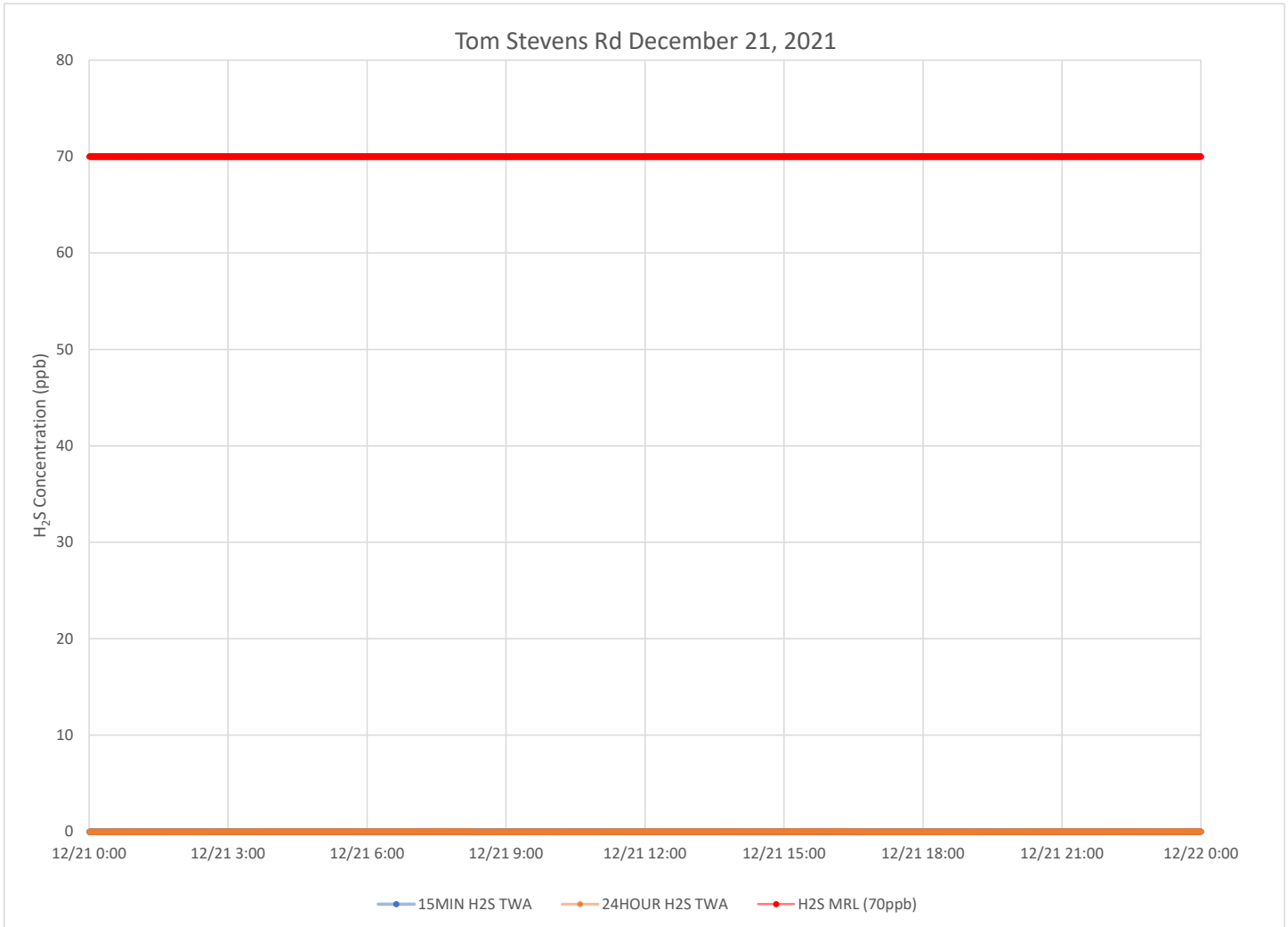
- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▲ DHEC Monitor

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was generally calm in the early morning, but when present and throughout the rest of the day was from the north northwest to northeast.



### Notes:

Time is Eastern Standard Time

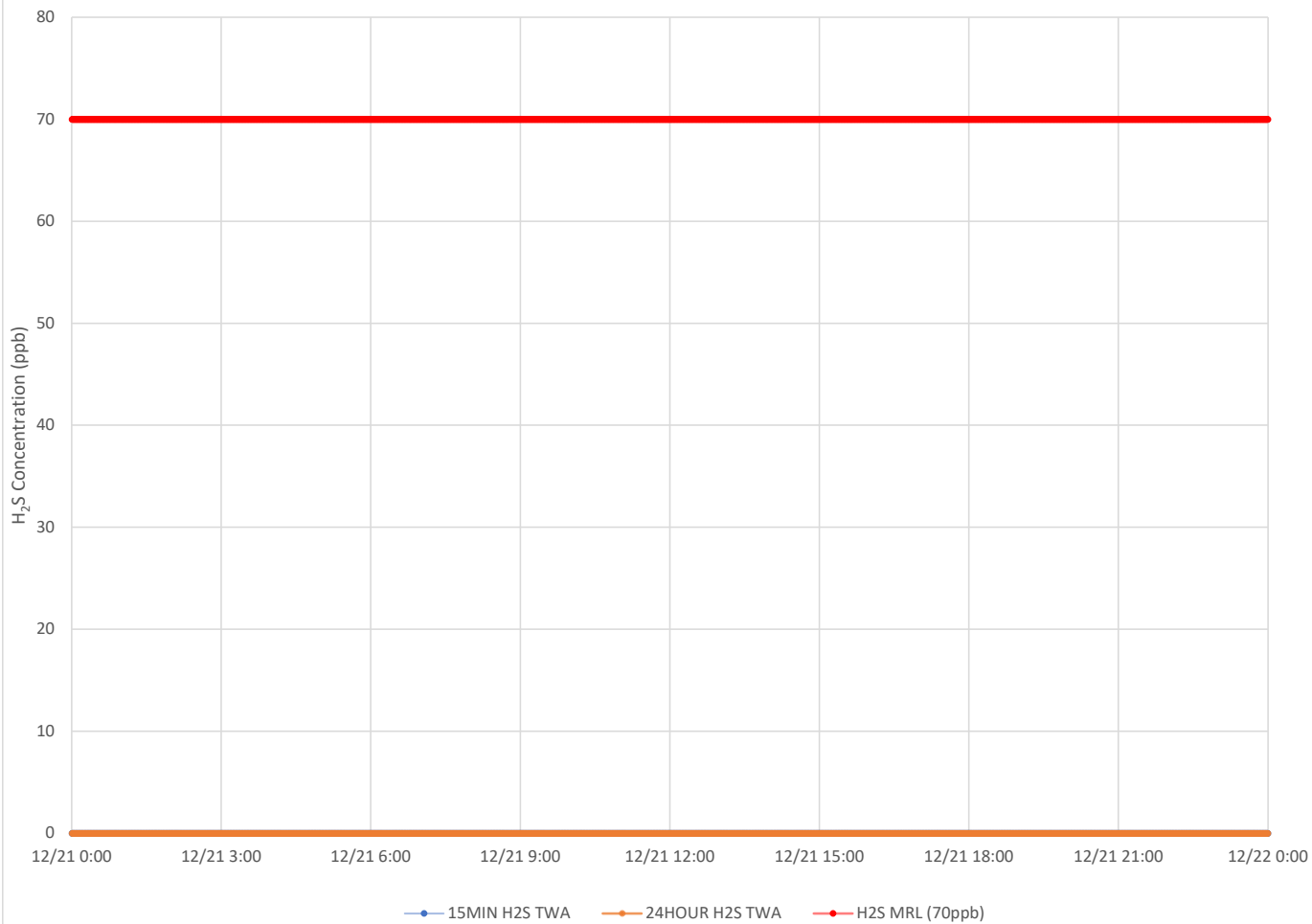
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 21, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/22/21  
12:00 AM

**To:** 12/22/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

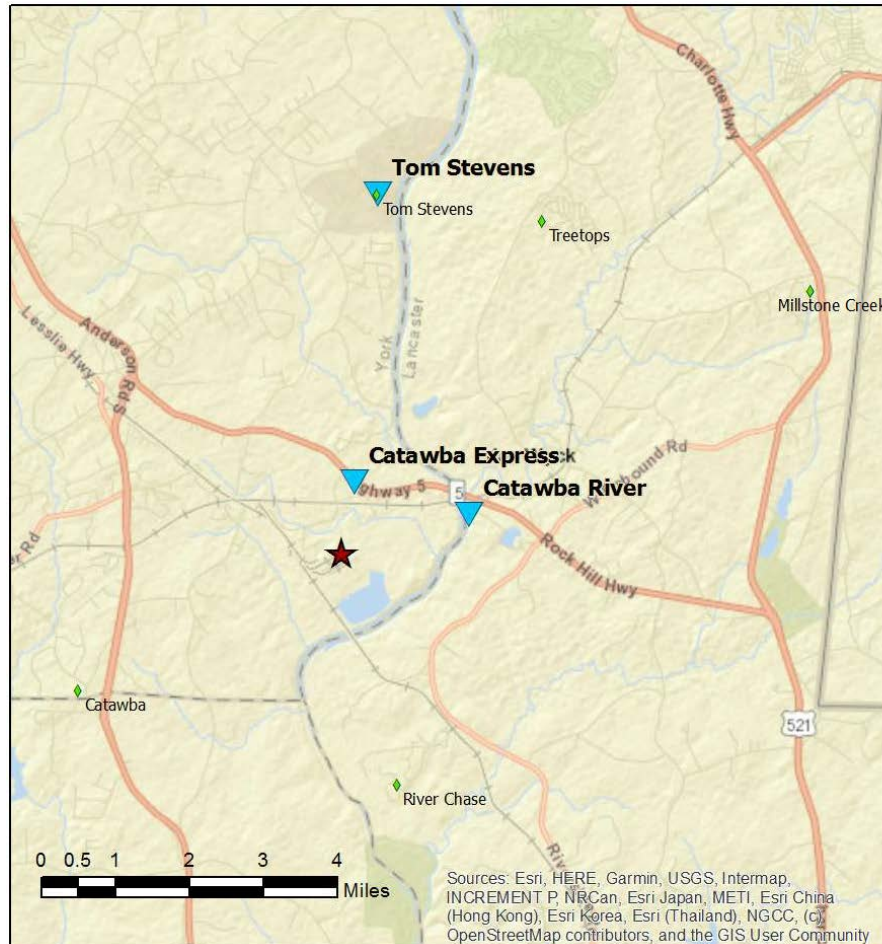
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	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)
- H<sub>2</sub>S 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 Average



**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▲ DHEC Monitor

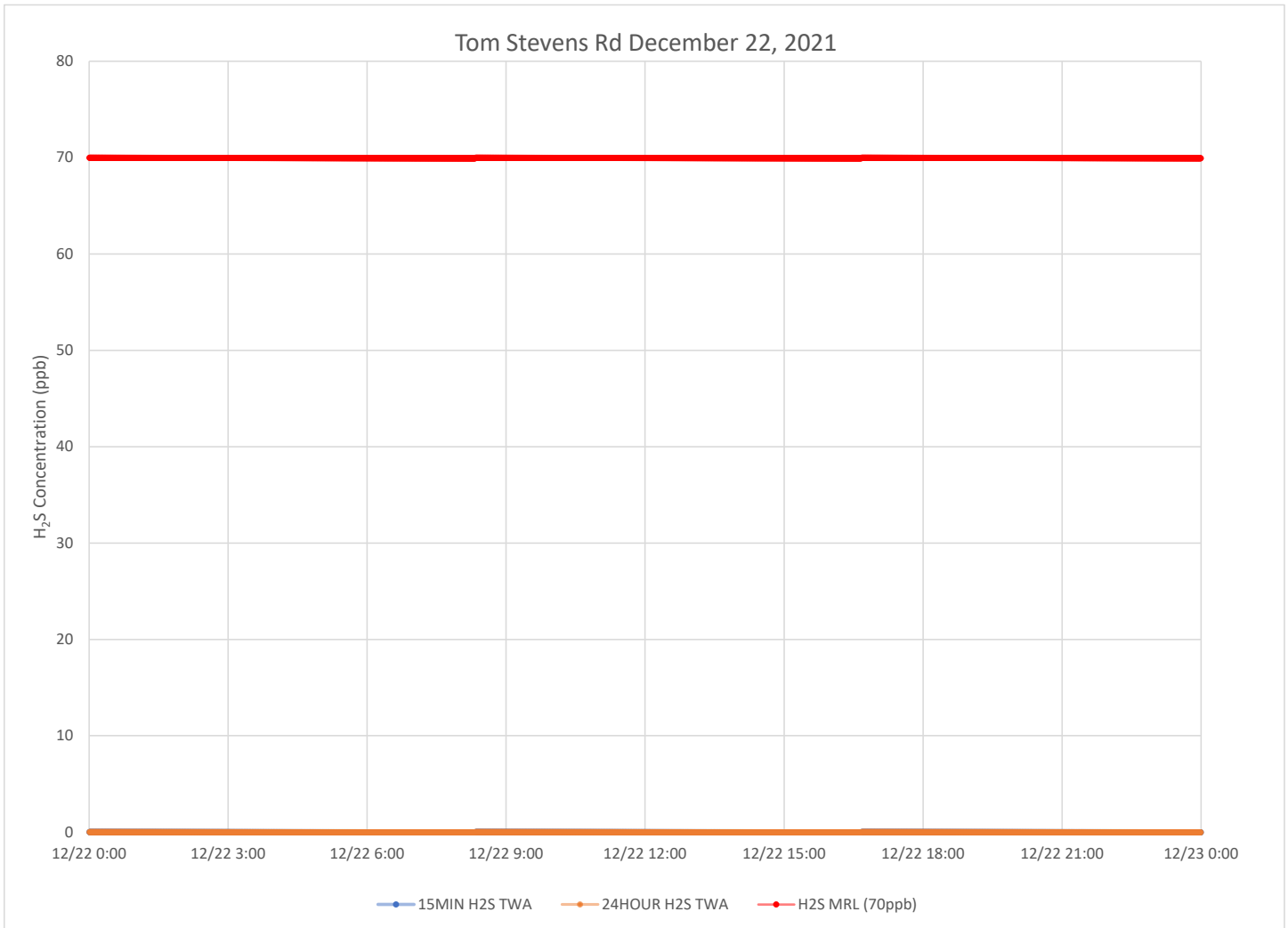
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was primarily from the west northwest to north during this period.



### Notes:

Time is Eastern Standard Time

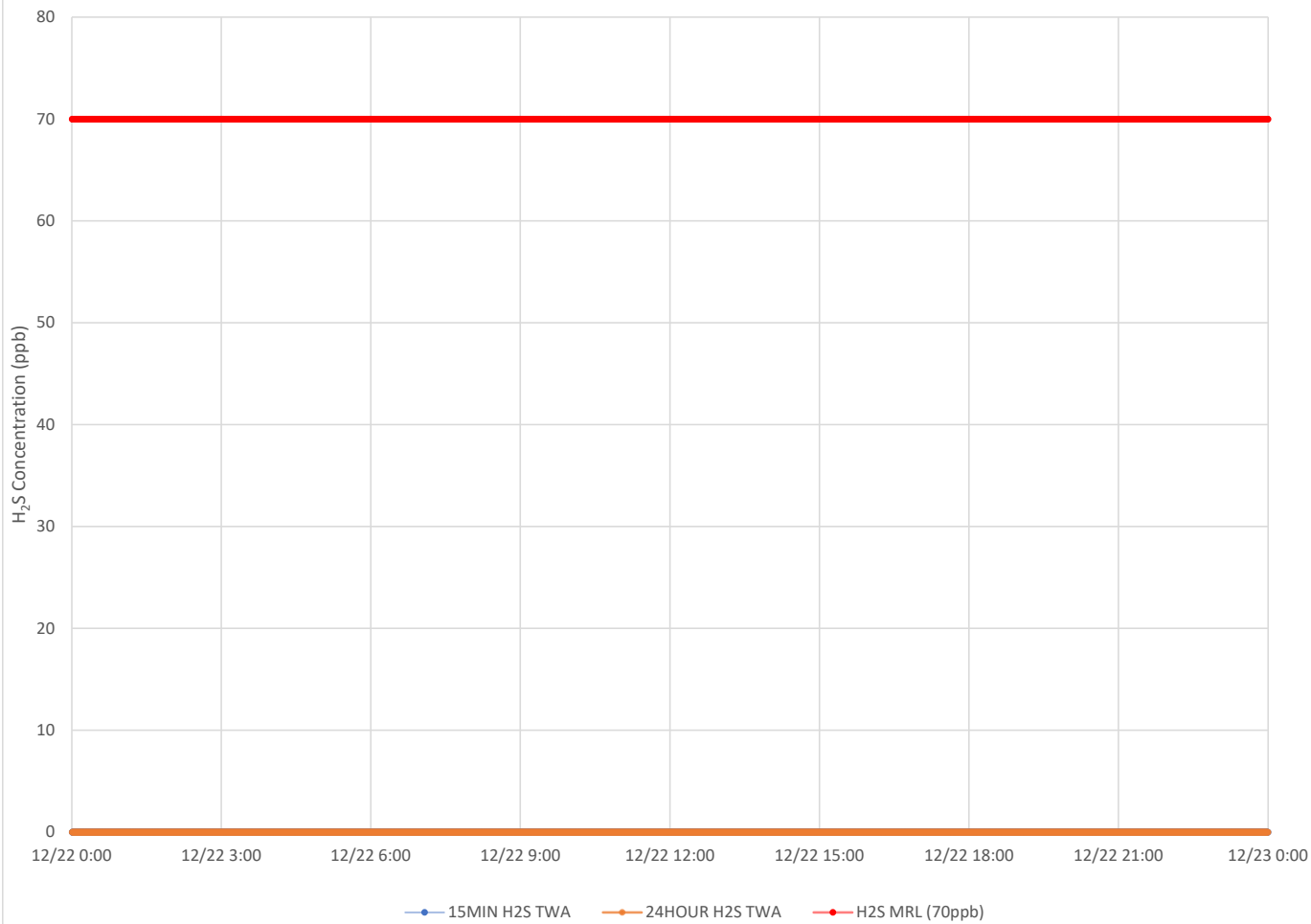
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 22, 2021



#### Notes:

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/23/21  
12:00 AM

**To:** 12/23/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	292	0 - 6 ppb	0.3 ppb	70 ppb

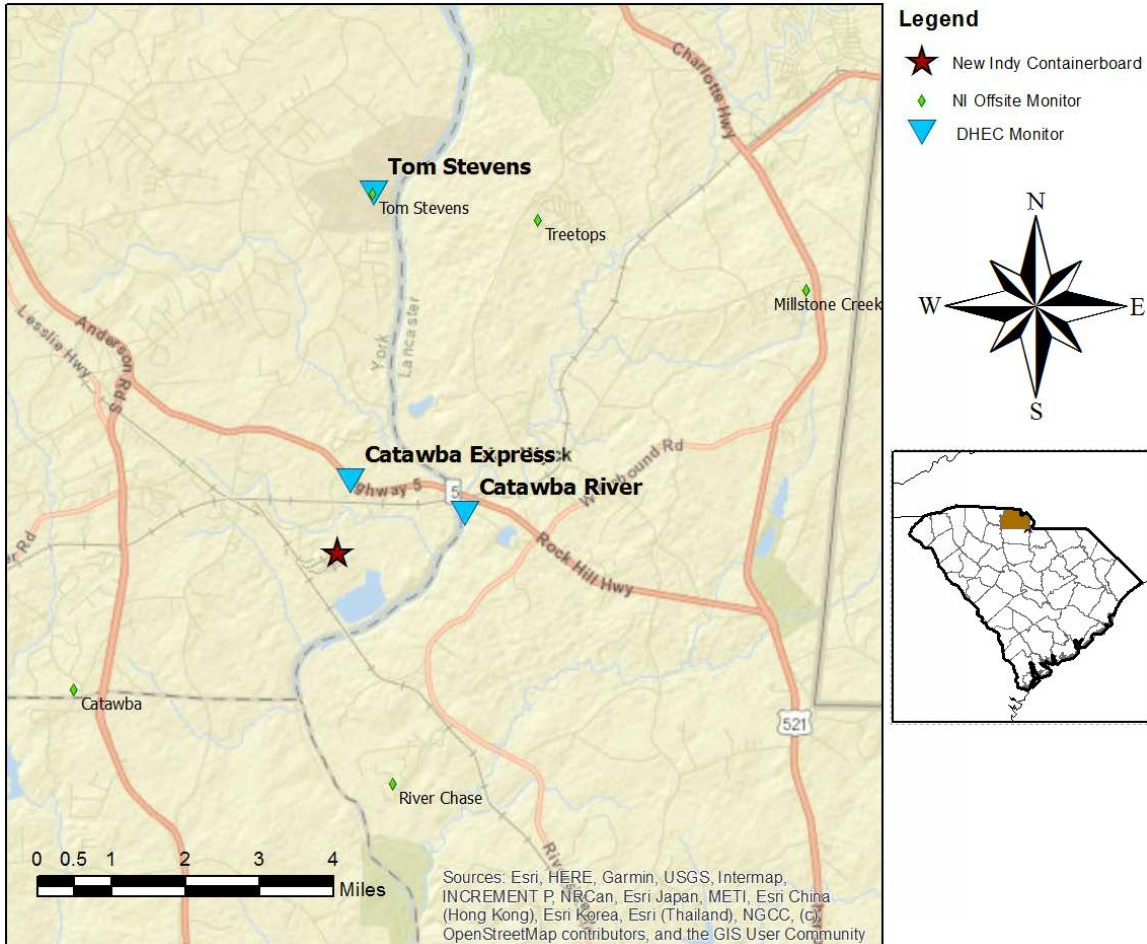
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	389	0 - 18 ppb	0.34 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.

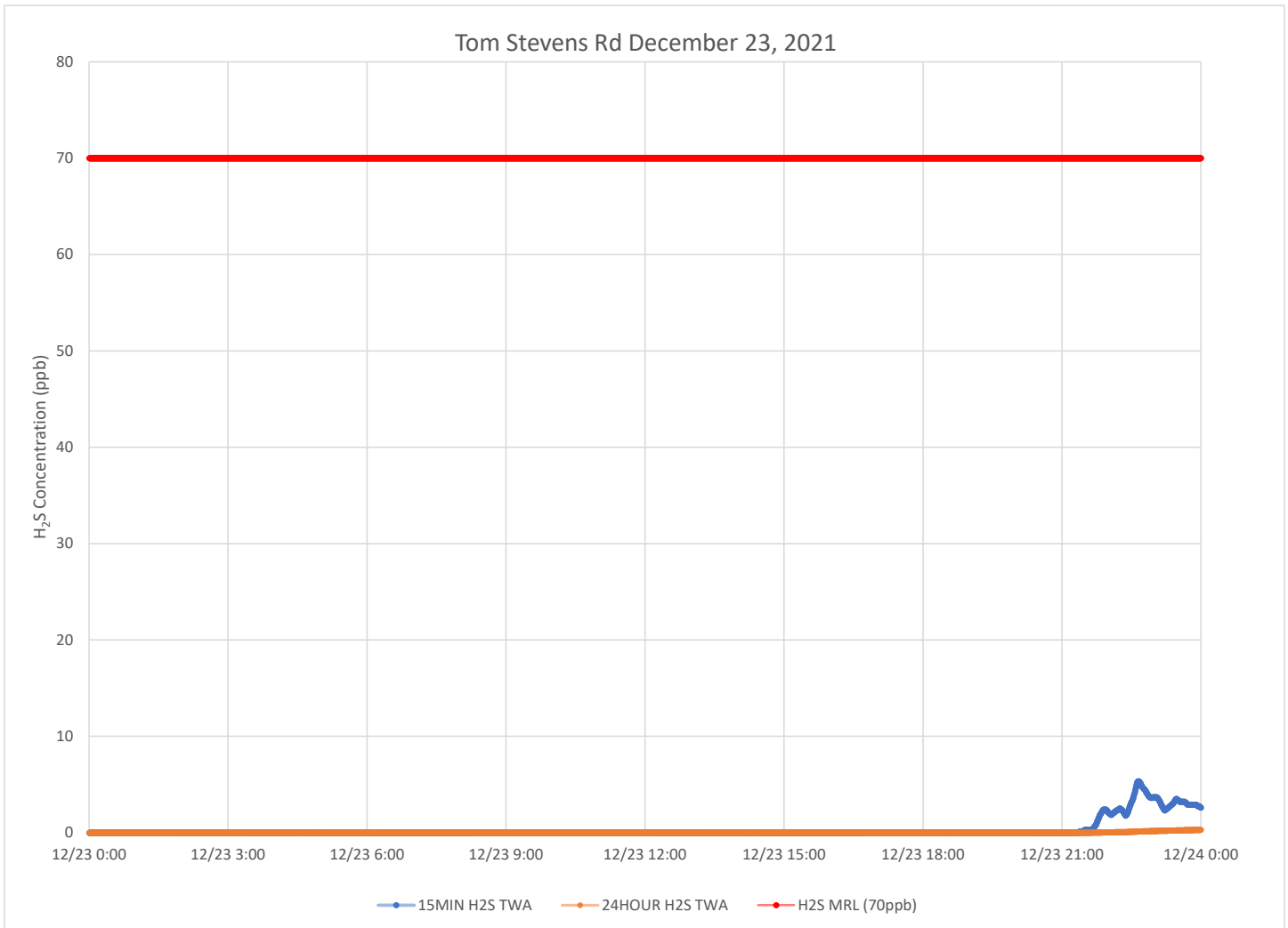
- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S Hydrogen Sulfide
- hr Hour
- ppb Parts per billion
- MRL Exceedance Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- SPM Single Point Monitor
- TWA Time Weighted Average



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was from the north around midnight becoming calm through midday and shifting to coming from the southwest to south in the early afternoon and through the evening.



### Notes:

Time is Eastern Standard Time

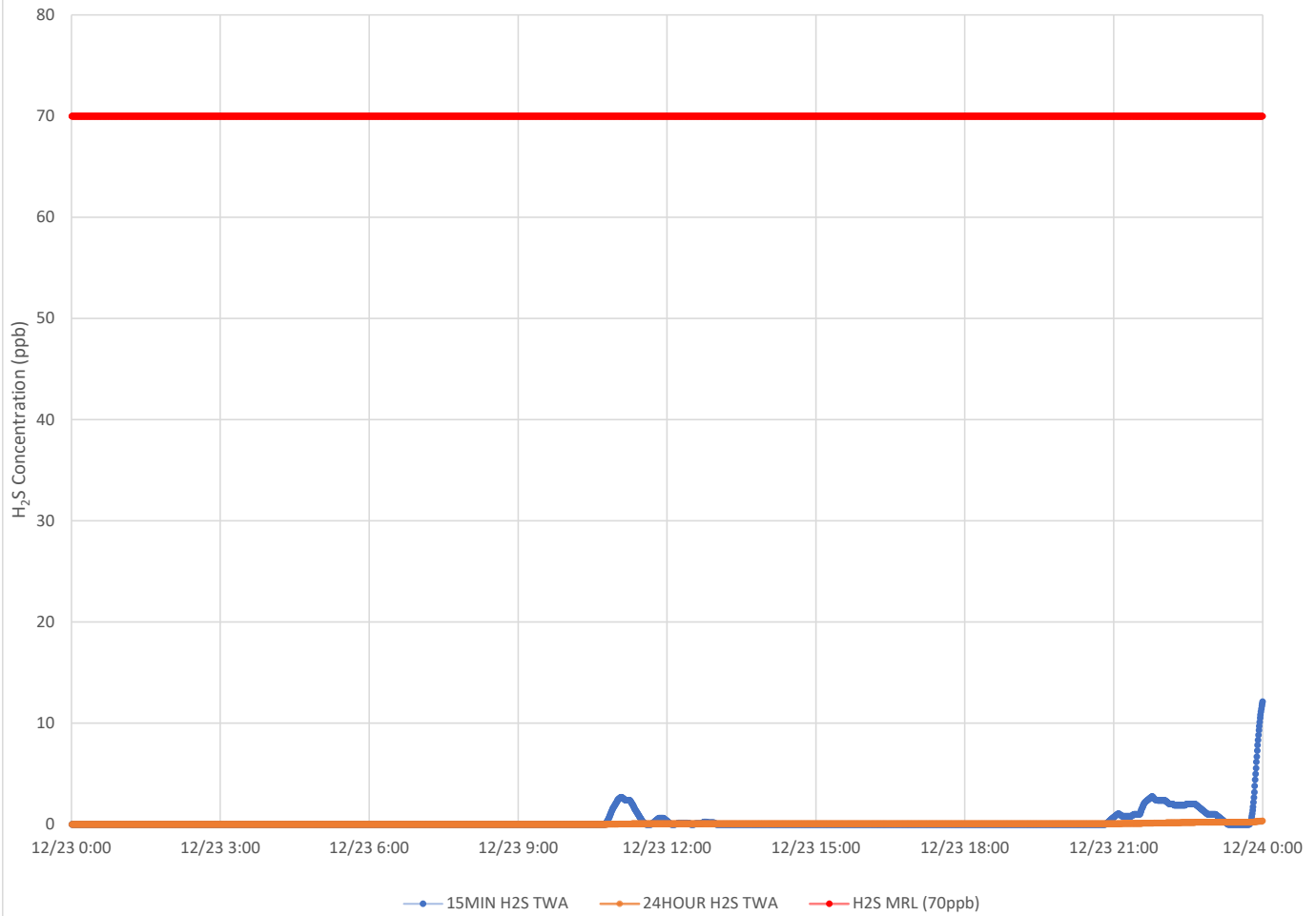
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 23, 2021



#### Notes:

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

There was gap in the data record at the Tom Stevens site lasting approximately 30 minutes just after midnight. If the missing data is recoverable, this report will be reissued.

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name: H<sub>2</sub>S in South Carolina**



**From: 12/24/21  
12:00 AM**

**To: 12/24/21  
11:59 PM**

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H <sub>2</sub> S	No	2838	134	0 - 3 ppb	0.08 ppb	70 ppb

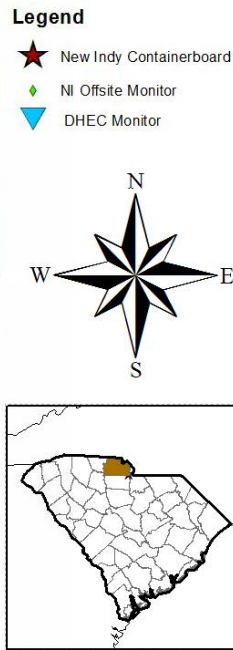
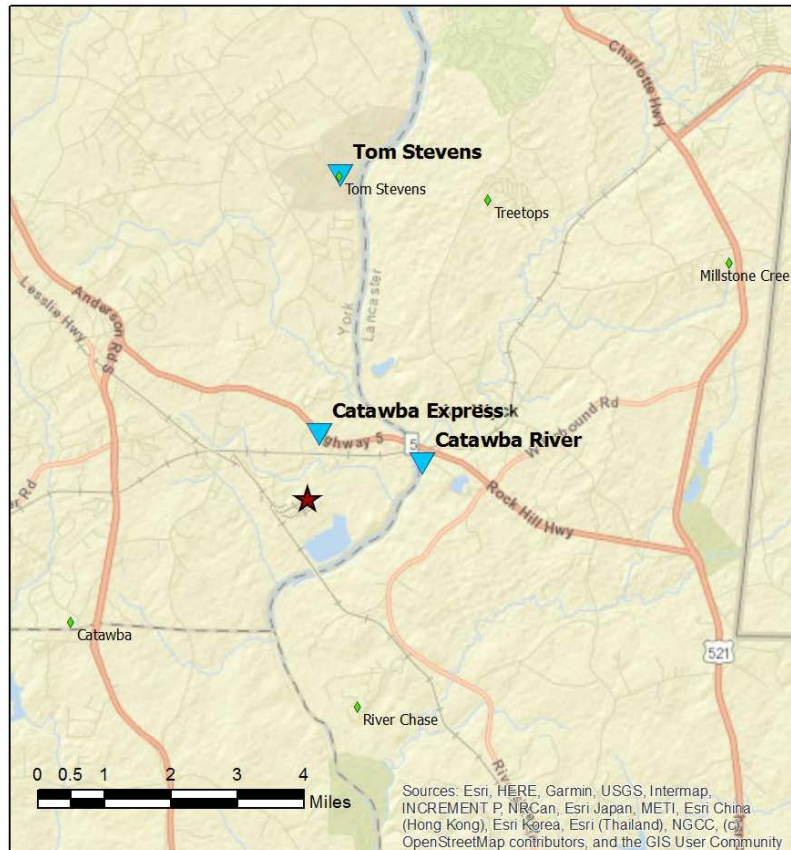
Catawba River Monitor Off line							
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Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H <sub>2</sub> S	No	2880	182	0 - 8 ppb	0.09 ppb	70 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.

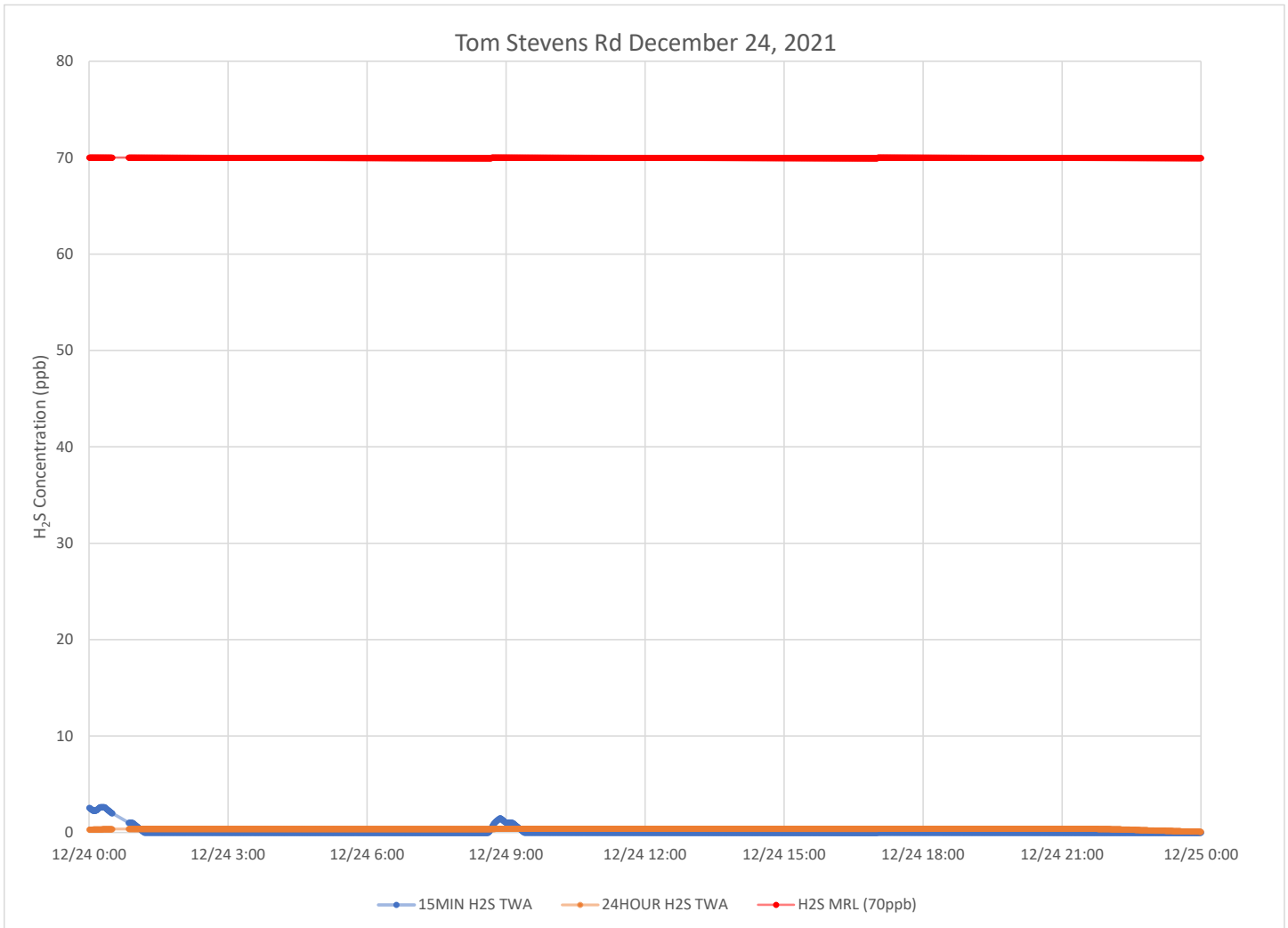
- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S Hydrogen Sulfide
- hr Hour
- ppb Parts per billion
- MRL Exceedance Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- SPM Single Point Monitor
- TWA Time Weighted Average



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was a moderate breeze from the south southwest to west southwest throughout the period.



### Notes:

Time is Eastern Standard Time

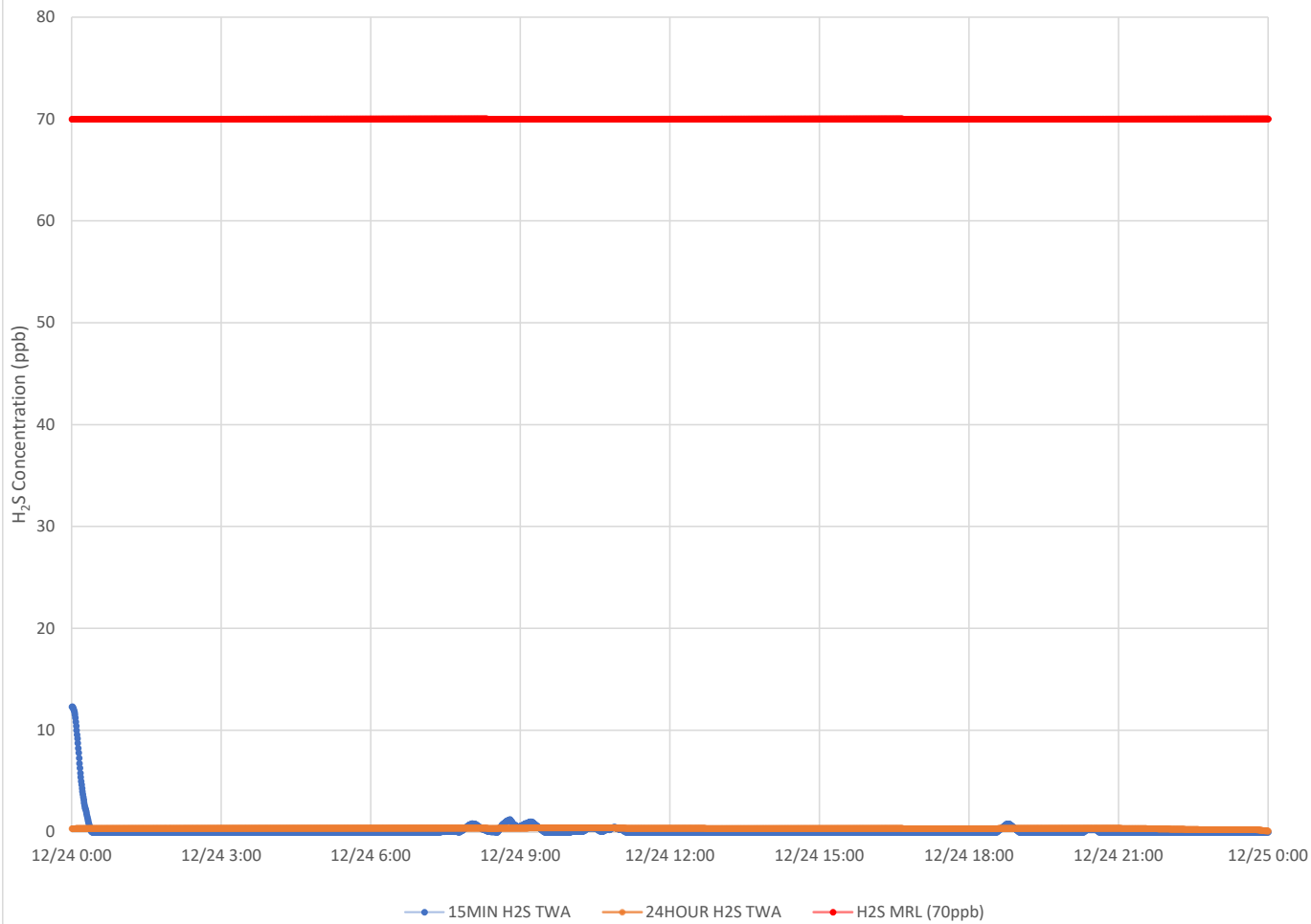
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 24, 2021



**Notes:**

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion



This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name: H<sub>2</sub>S in South Carolina**



**From: 12/25/21  
12:00 AM**

**To: 12/25/21  
11:59 PM**

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

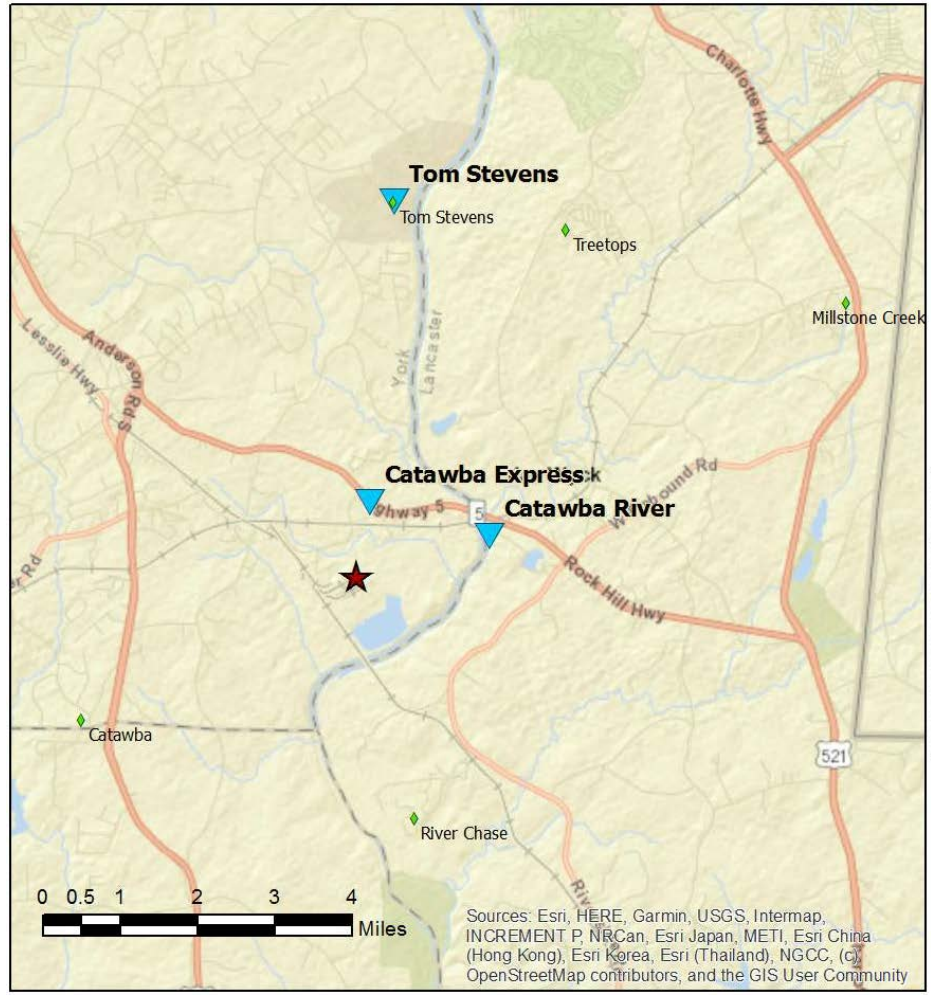
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

**Notes:**

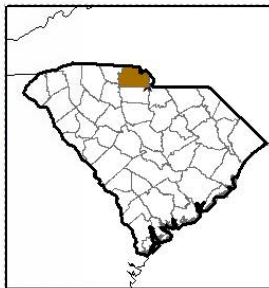
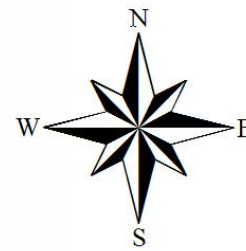
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S 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 Average



**Legend**

- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▲ DHEC Monitor

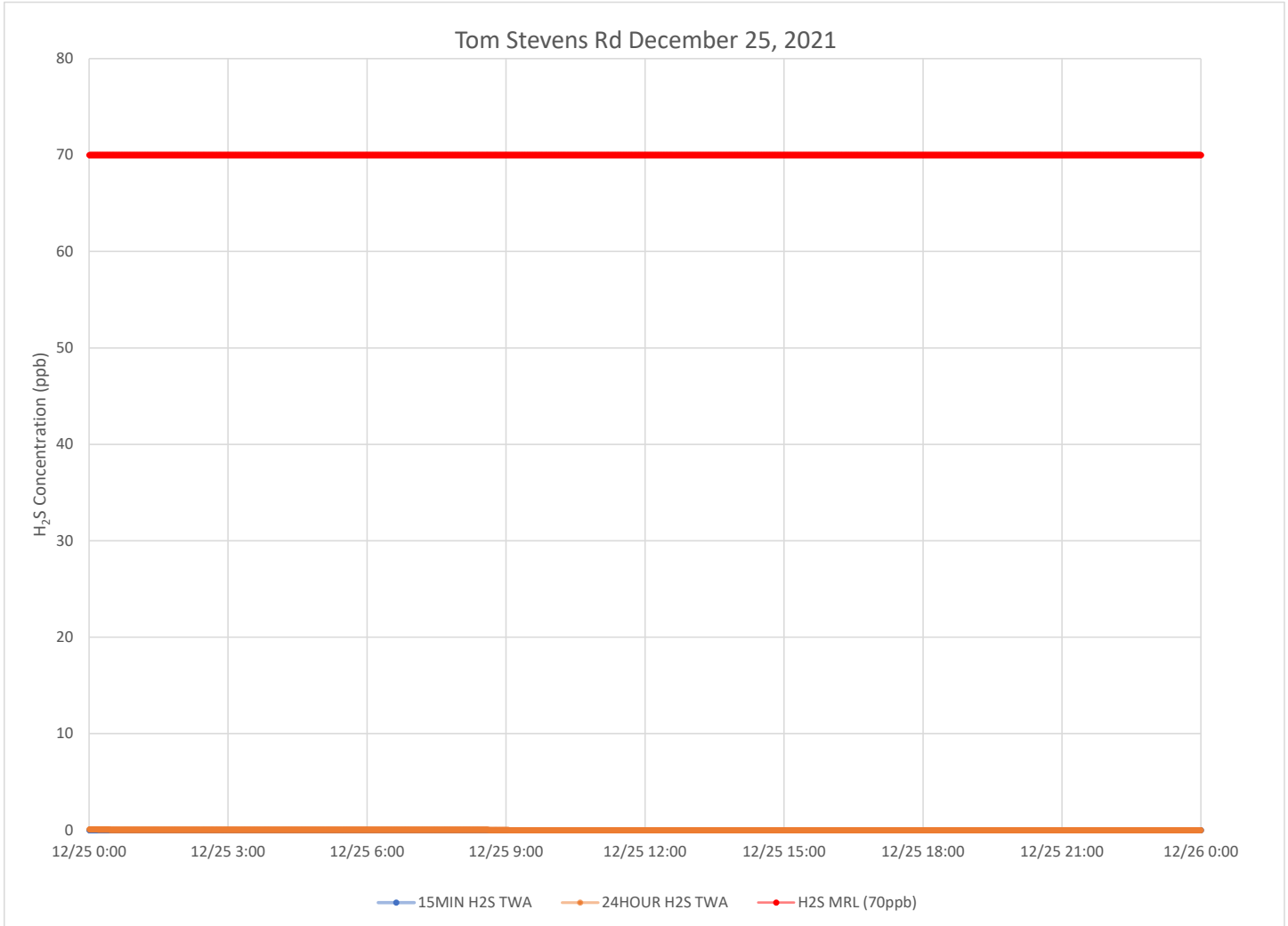


Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was a moderate to fresh breeze from the south southwest through west southwest throughout the period.



### Notes:

Time is Eastern Standard Time

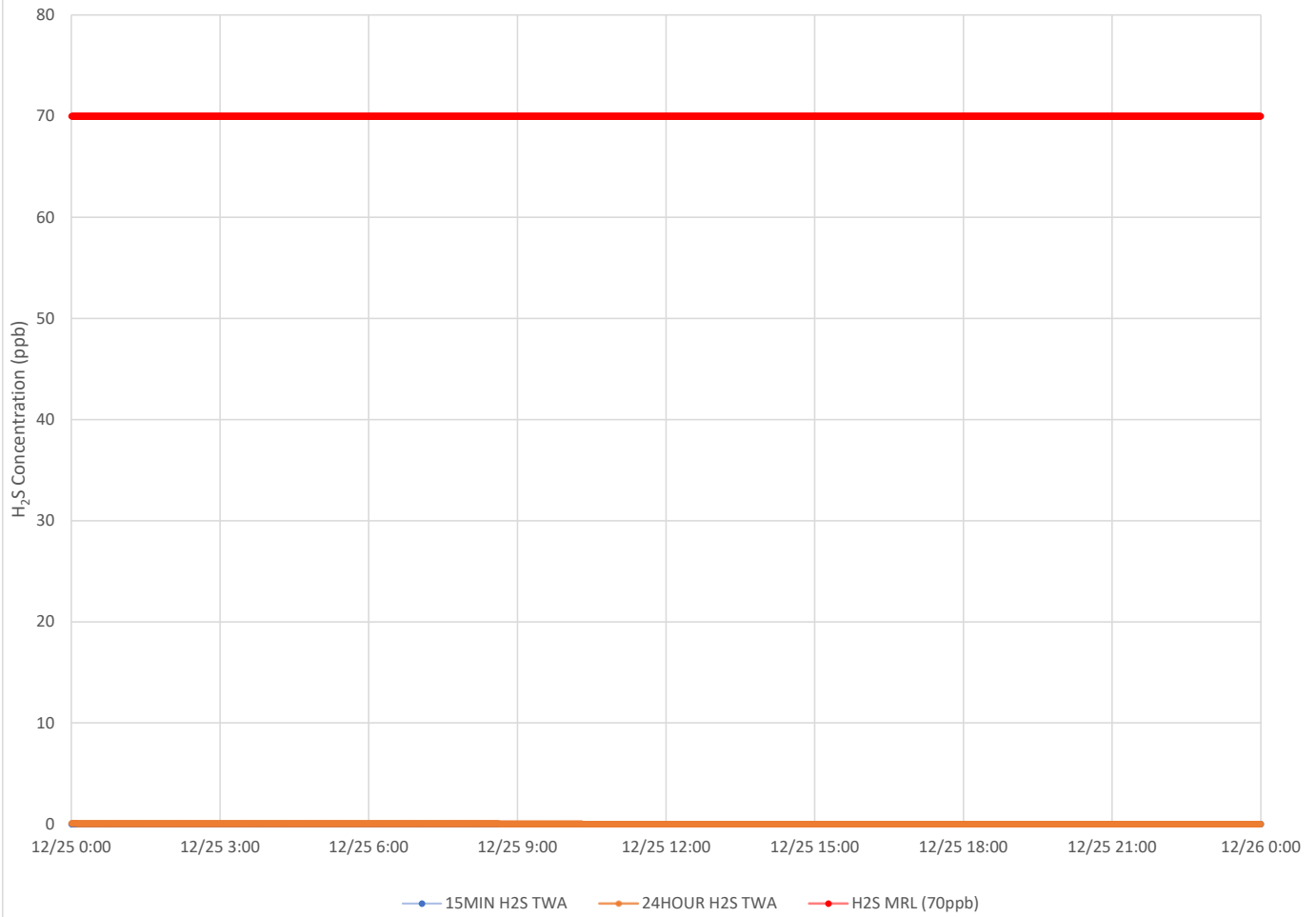
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 25, 2021



**Notes:**

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.



**Project Name: H<sub>2</sub>S in South Carolina**

**From: 12/26/21  
12:00 AM**

**To: 12/26/21  
11:59 PM**

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

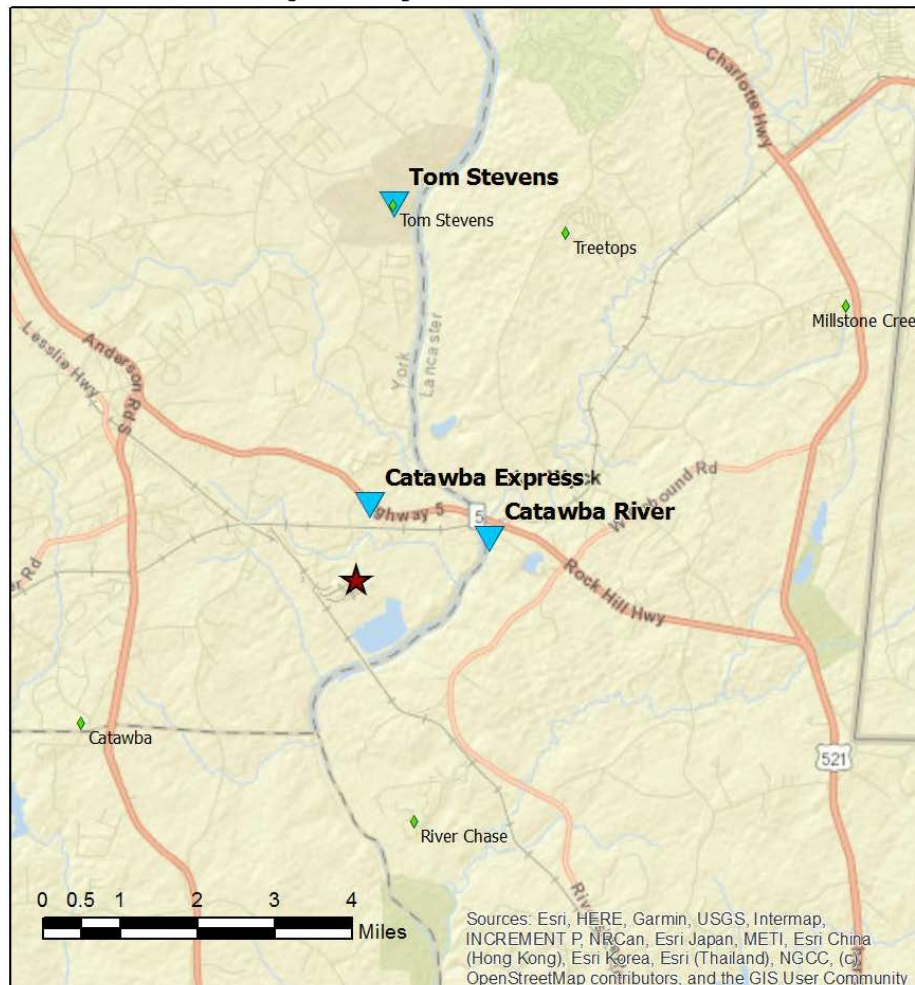
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	412	0 - 9 ppb	0.46 ppb	70 ppb

**Notes:**

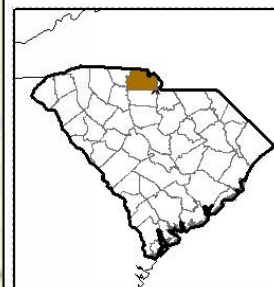
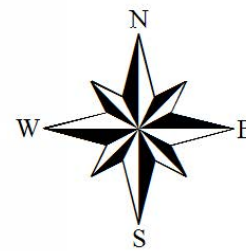
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S 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 Average



**Legend**

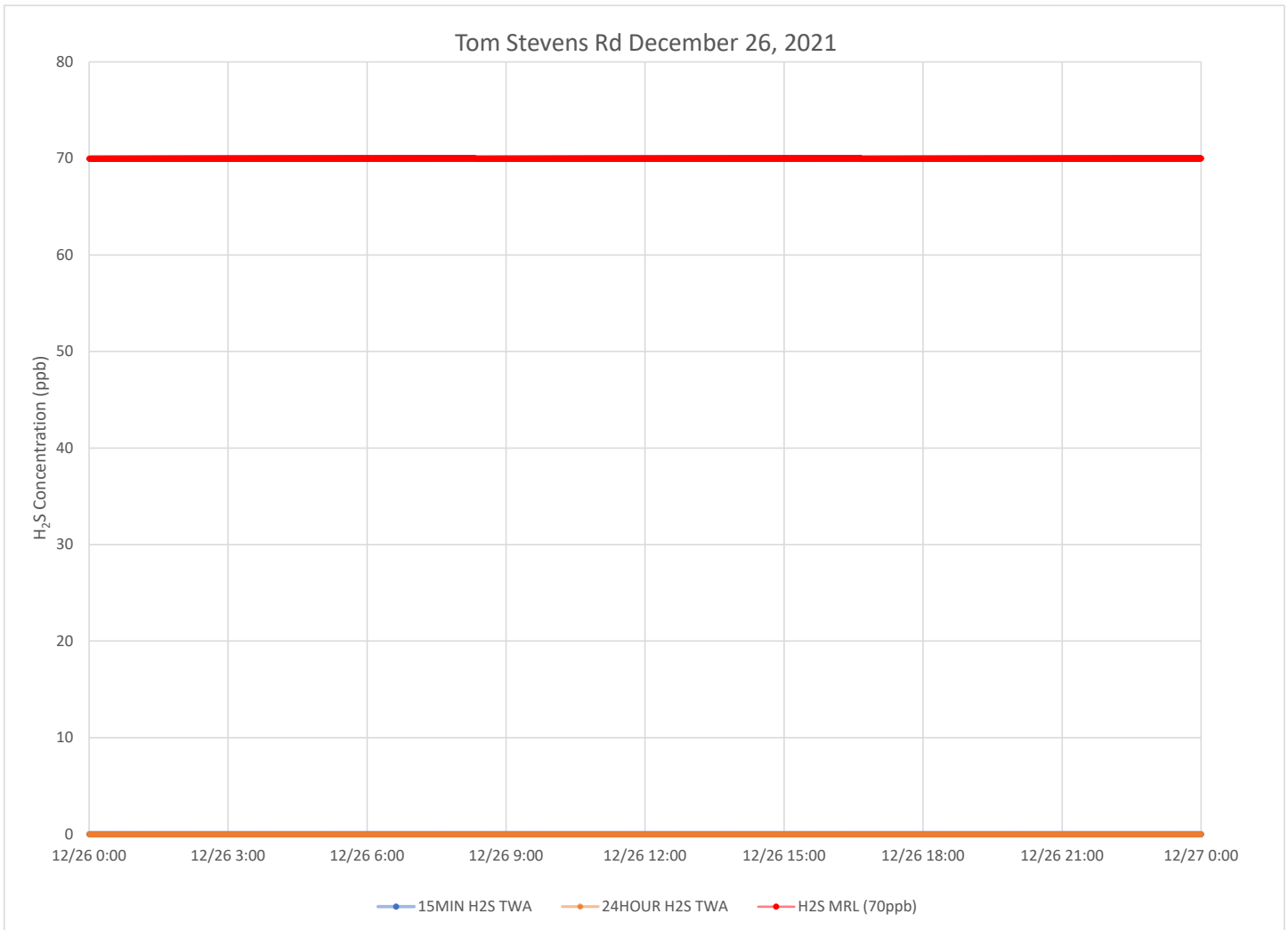
- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▼ DHEC Monitor



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was a light breeze from the southwest through west southwest through midday, becoming more calm in the evening.



### Notes:

Time is Eastern Standard Time

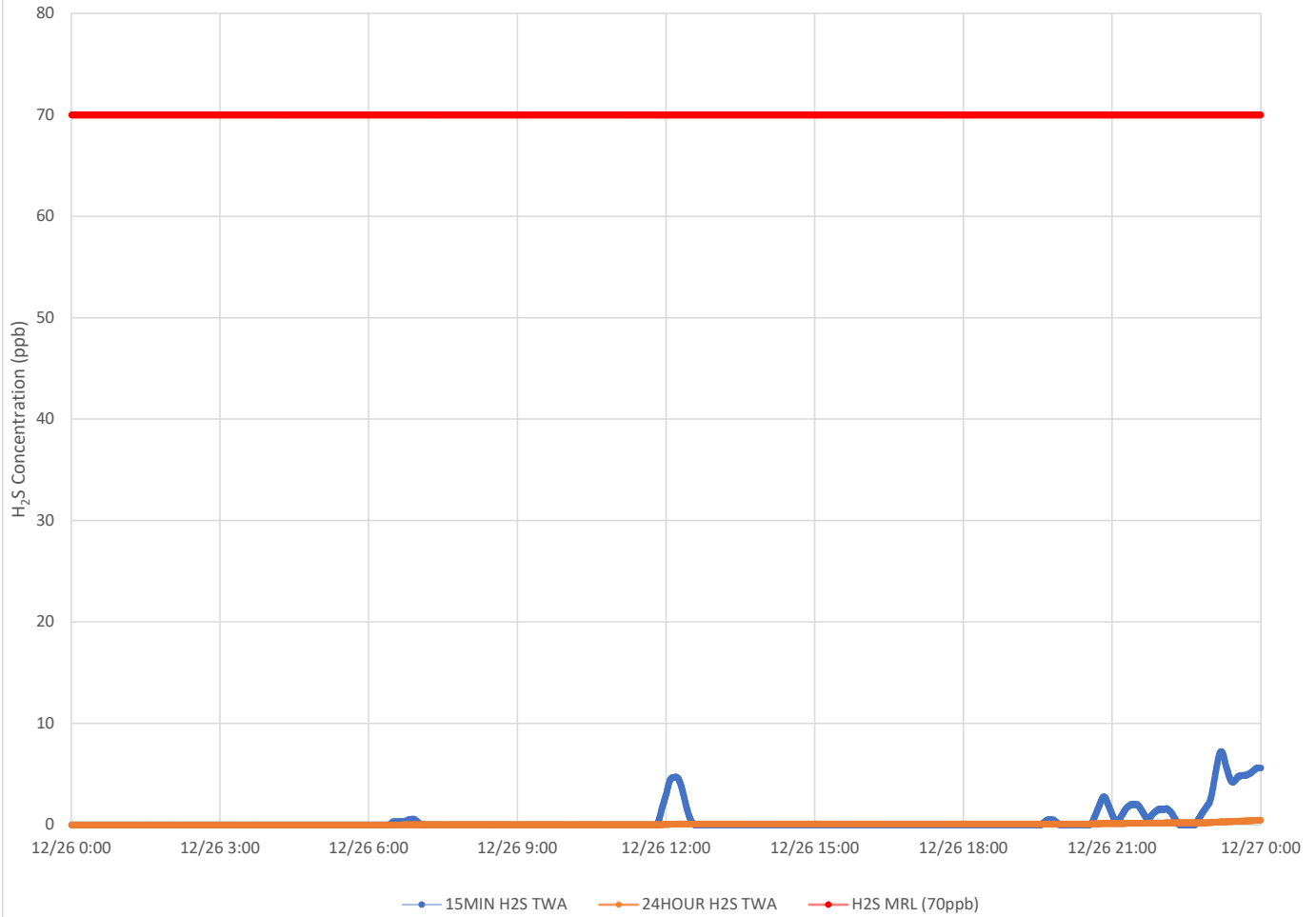
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 26, 2021



#### Notes:

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name: H<sub>2</sub>S in South Carolina**



**From: 12/27/21  
12:00 AM**

**To: 12/27/21  
11:59 PM**

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	1141	0 - 21 ppb	1.14 ppb	70 ppb

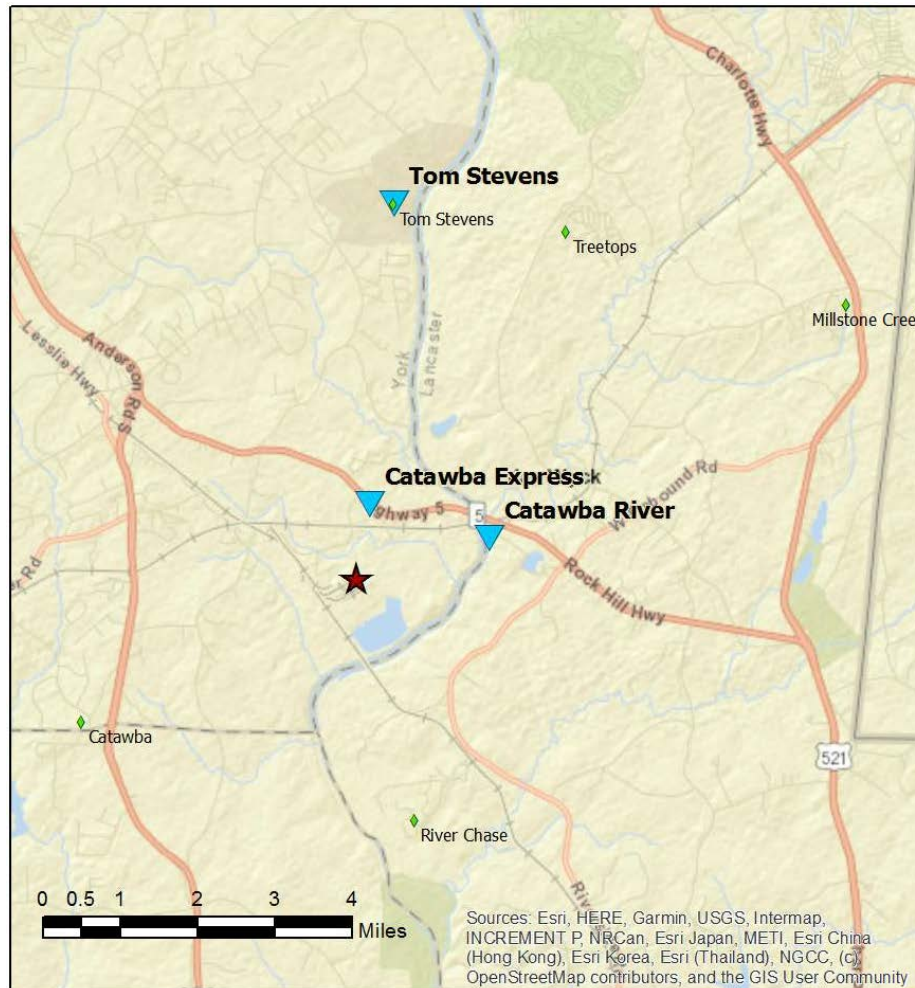
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	1320	0 - 25 ppb	2.02 ppb	70 ppb

**Notes:**

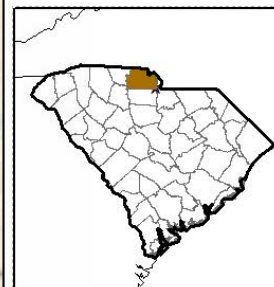
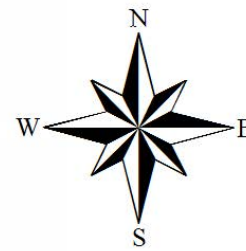
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S 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 Average



**Legend**

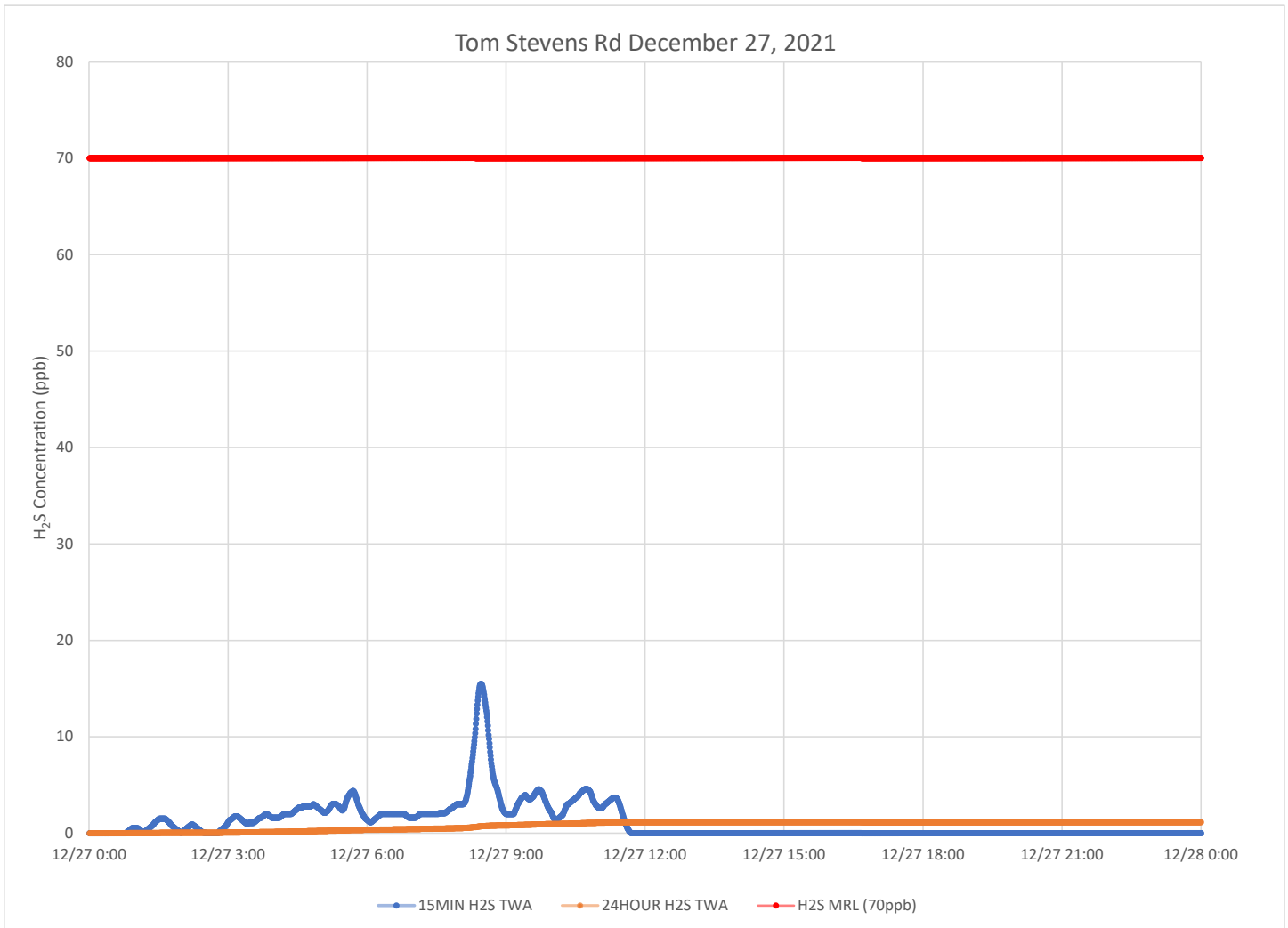
- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▲ DHEC Monitor



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

The wind was generally calm in the early morning then coming from the south southwest through west southwest for the remainder of the period.



### Notes:

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

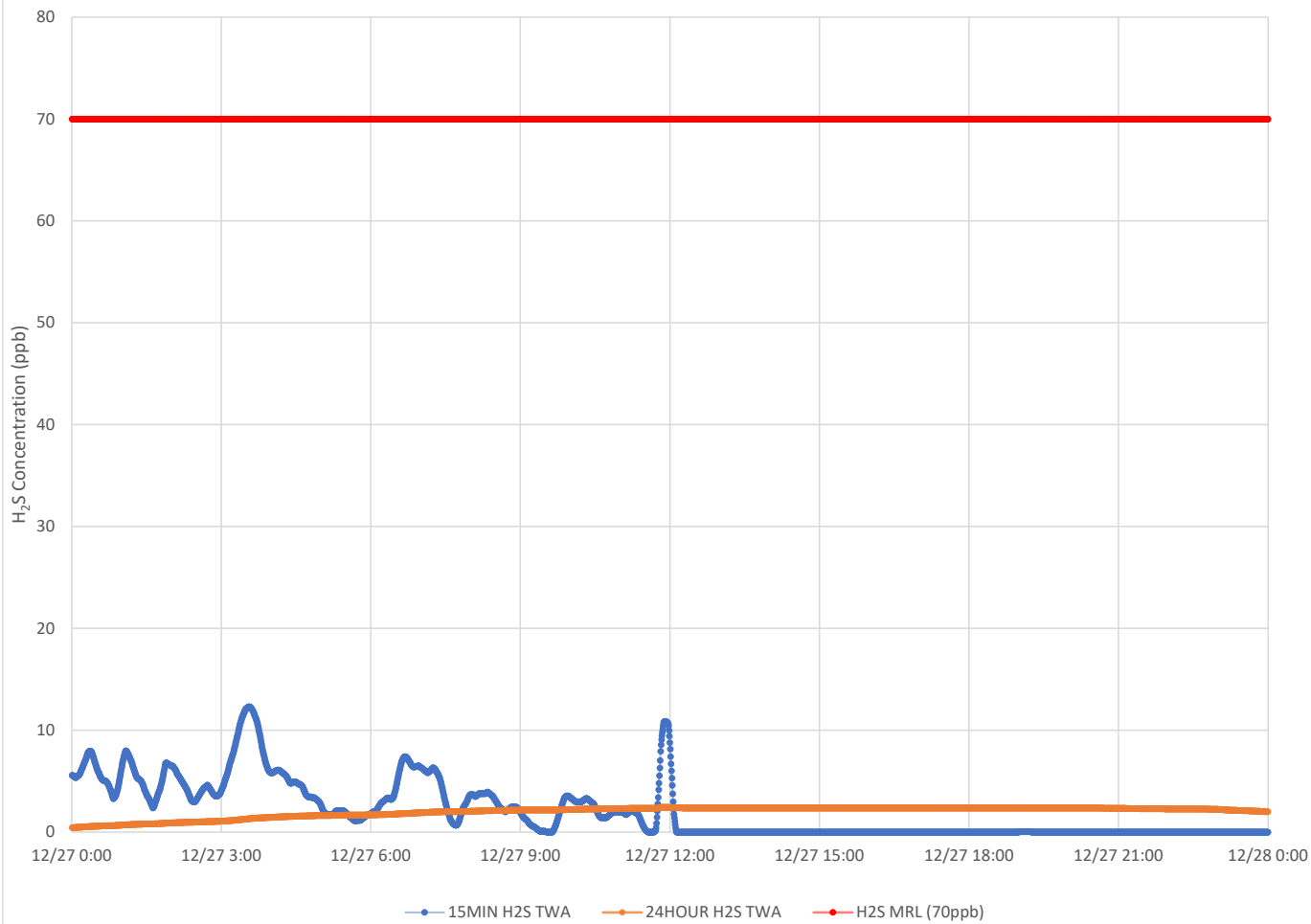
MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion



Catawba Express December 27, 2021



Notes:

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/28/21  
12:00 AM

**To:** 12/28/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	18	0 - 1 ppb	0.01 ppb	70 ppb

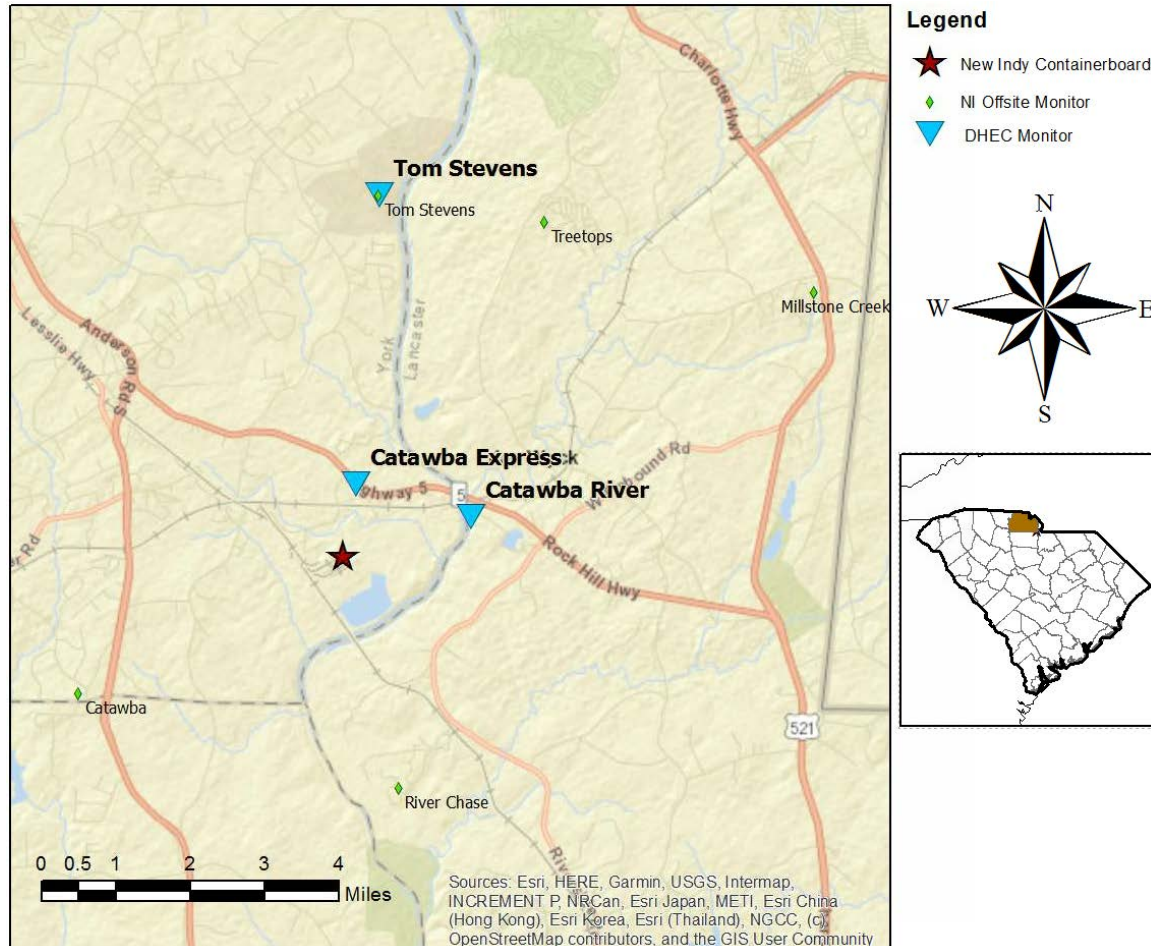
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	369	0 - 6 ppb	0.36 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.

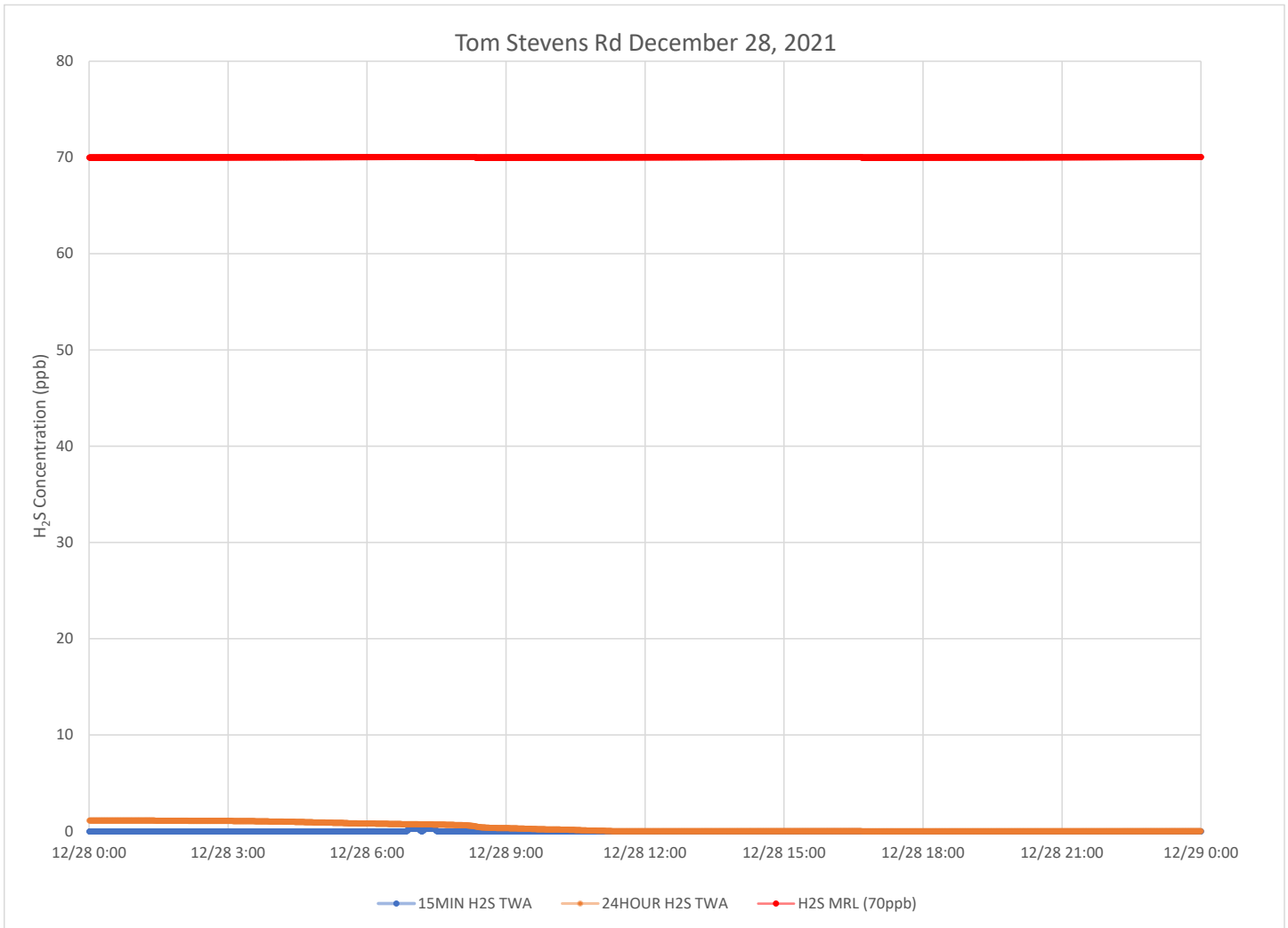
- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S Hydrogen Sulfide
- hr Hour
- ppb Parts per billion
- MRL Exceedance Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- SPM Single Point Monitor
- TWA Time Weighted Average



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

During this period the wind was coming from the south southwest through west southwest.



### Notes:

Time is Eastern Standard Time

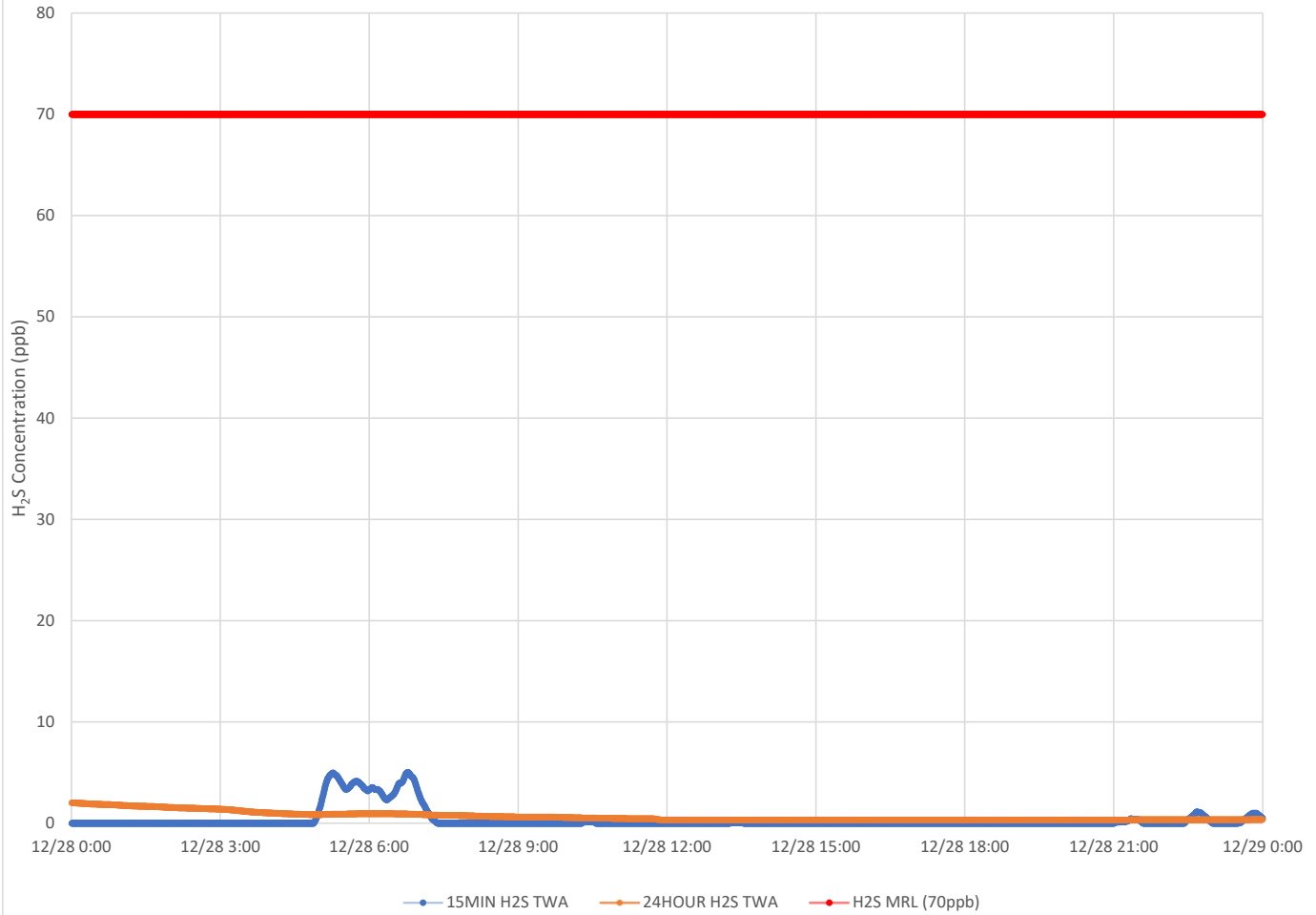
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 28, 2021



#### Notes:

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/29/21  
12:00 AM

**To:** 12/29/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

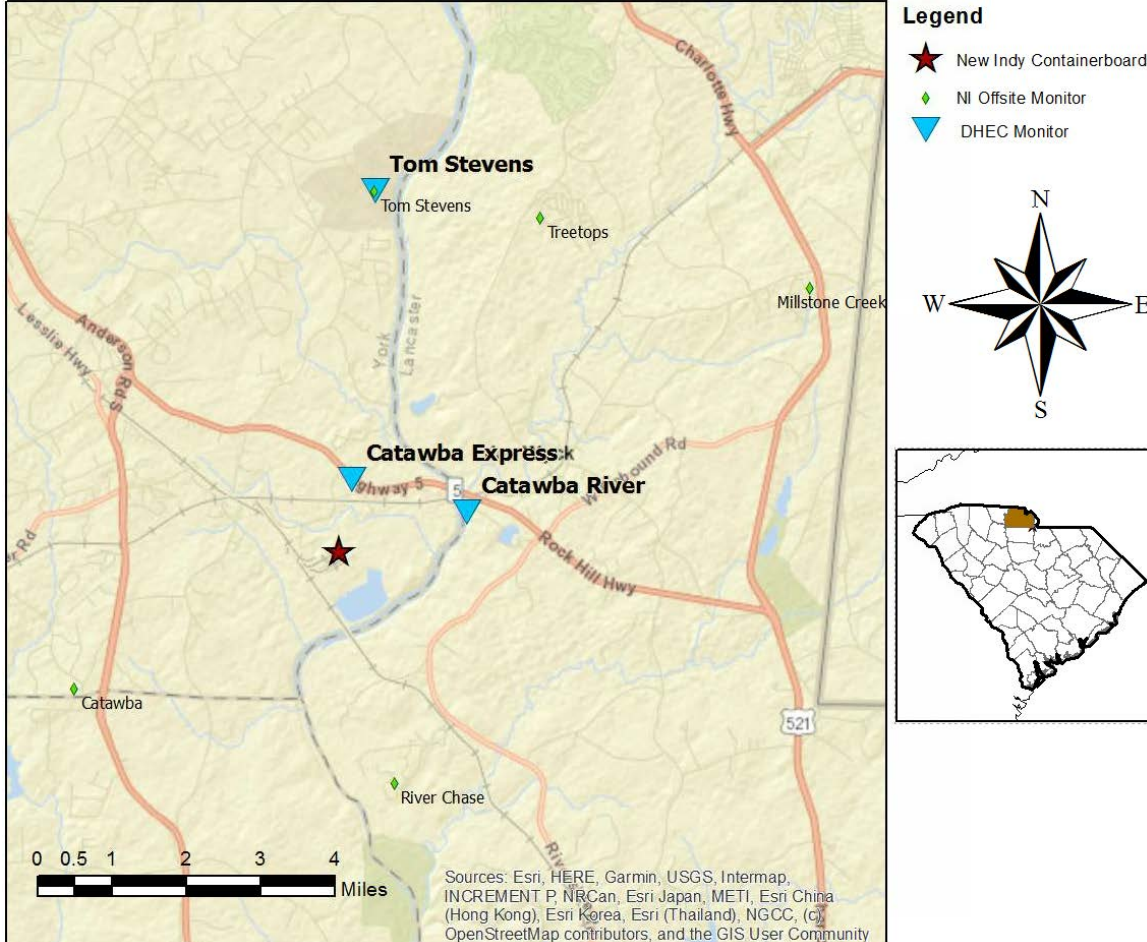
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	298	0 - 2 ppb	0.13 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.

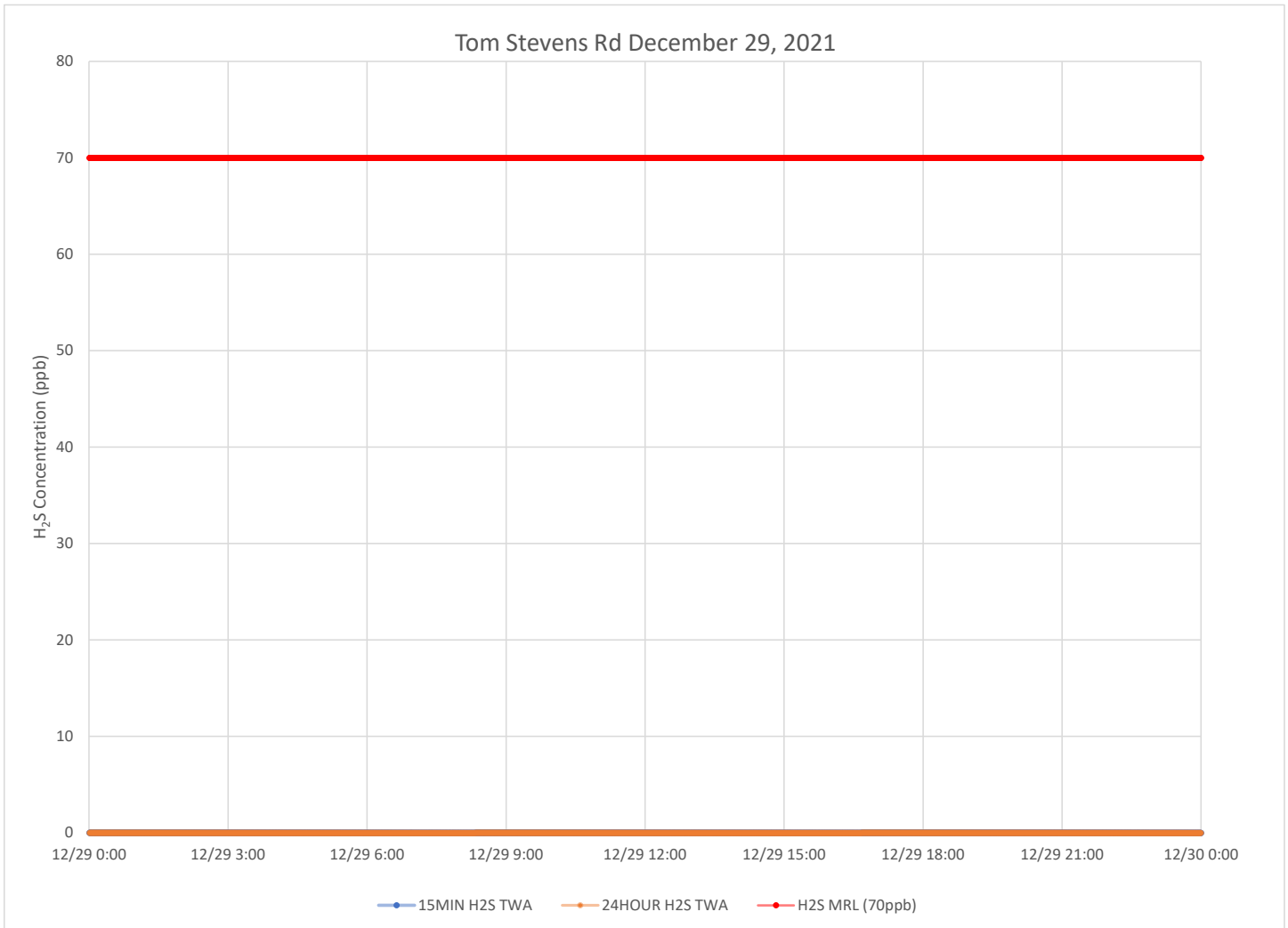
- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S Hydrogen Sulfide
- hr Hour
- ppb Parts per billion
- MRL Exceedance Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- SPM Single Point Monitor
- TWA Time Weighted Average



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

During this period the wind was coming from the south southwest through west southwest.



### Notes:

Time is Eastern Standard Time

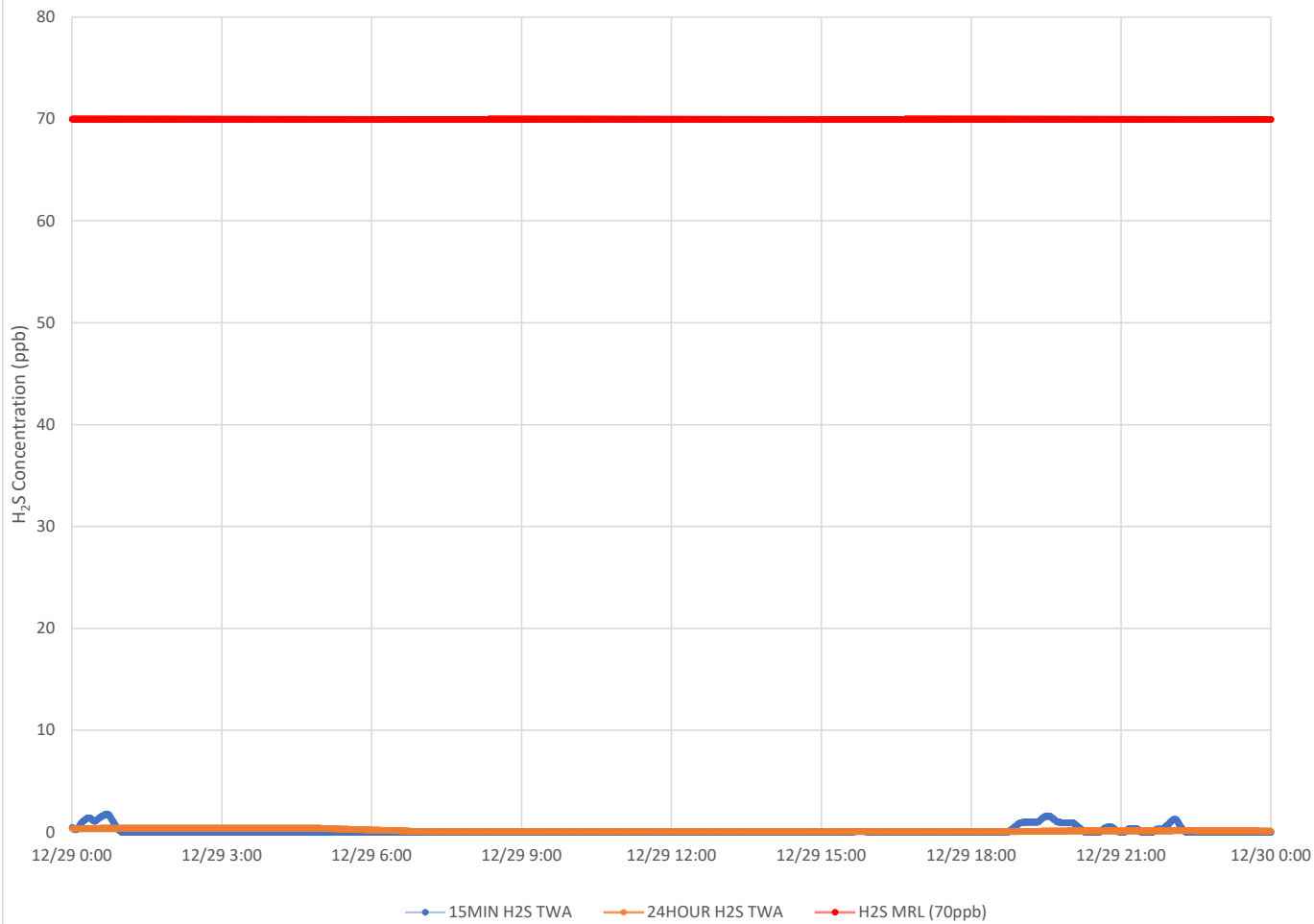
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 29, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/30/21  
12:00 AM

**To:** 12/30/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	0	0 - 0 ppb	0 ppb	70 ppb

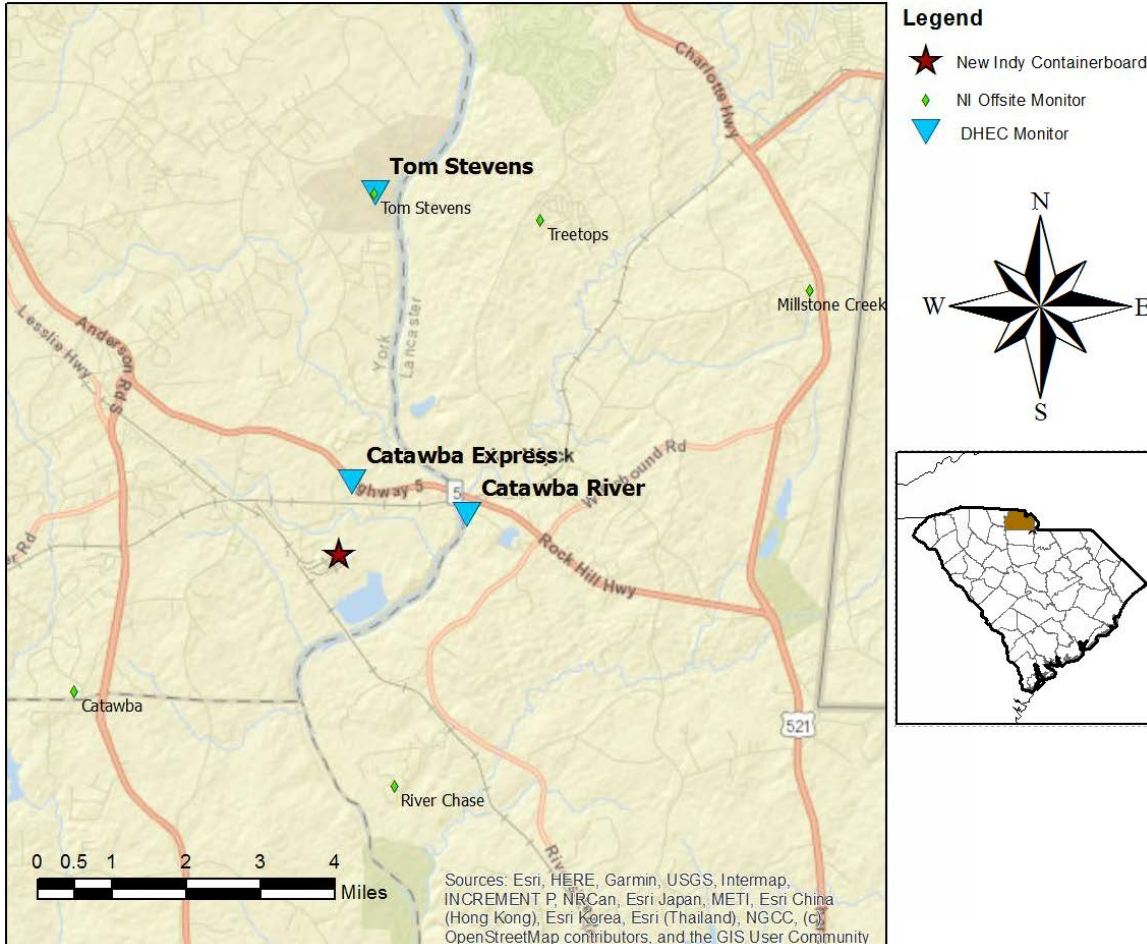
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	77	0 - 2 ppb	0.04 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)
- H<sub>2</sub>S 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 Average



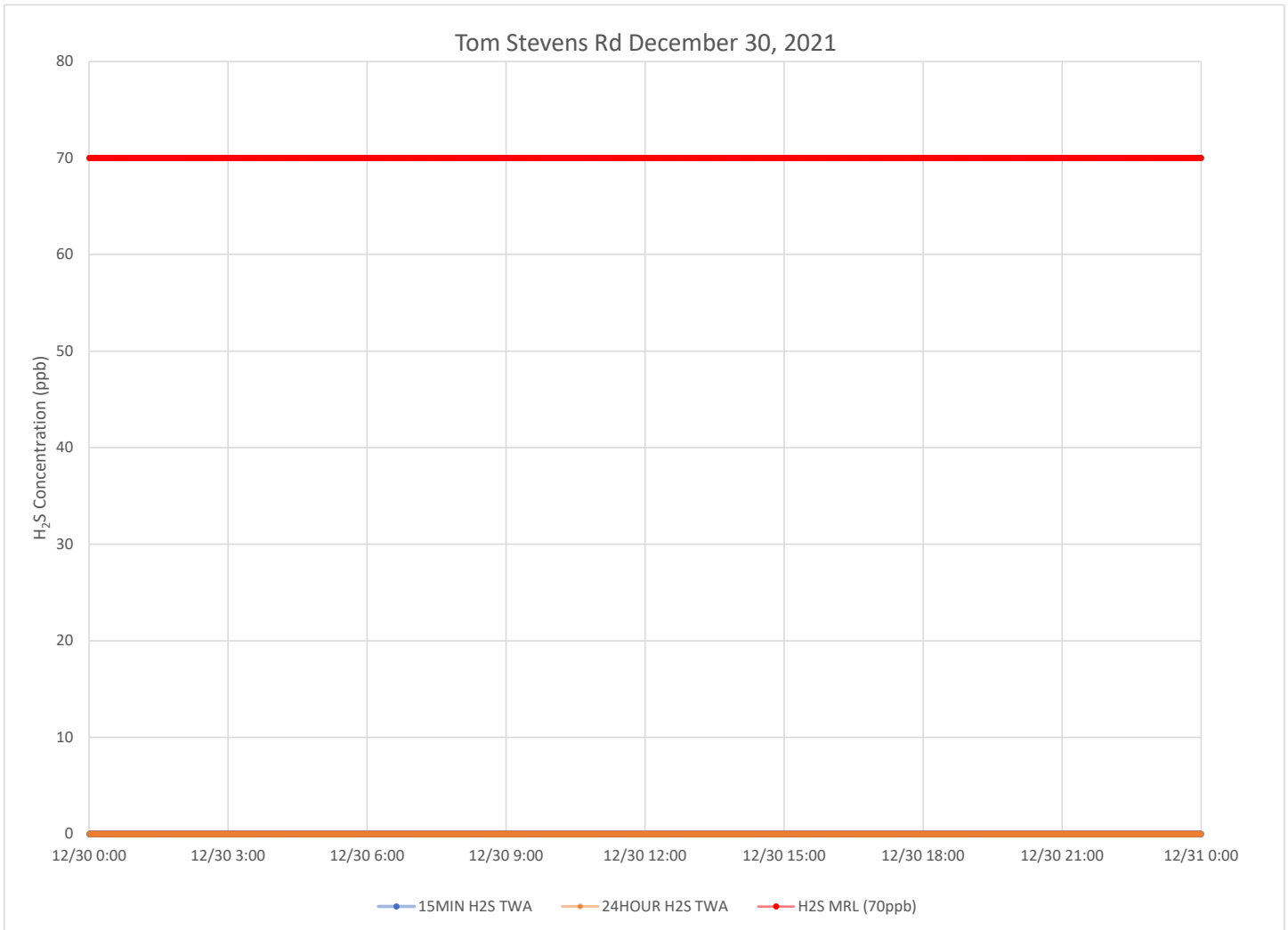
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

During this period the wind was coming from the south southwest through west southwest.



### Notes:

Time is Eastern Standard Time

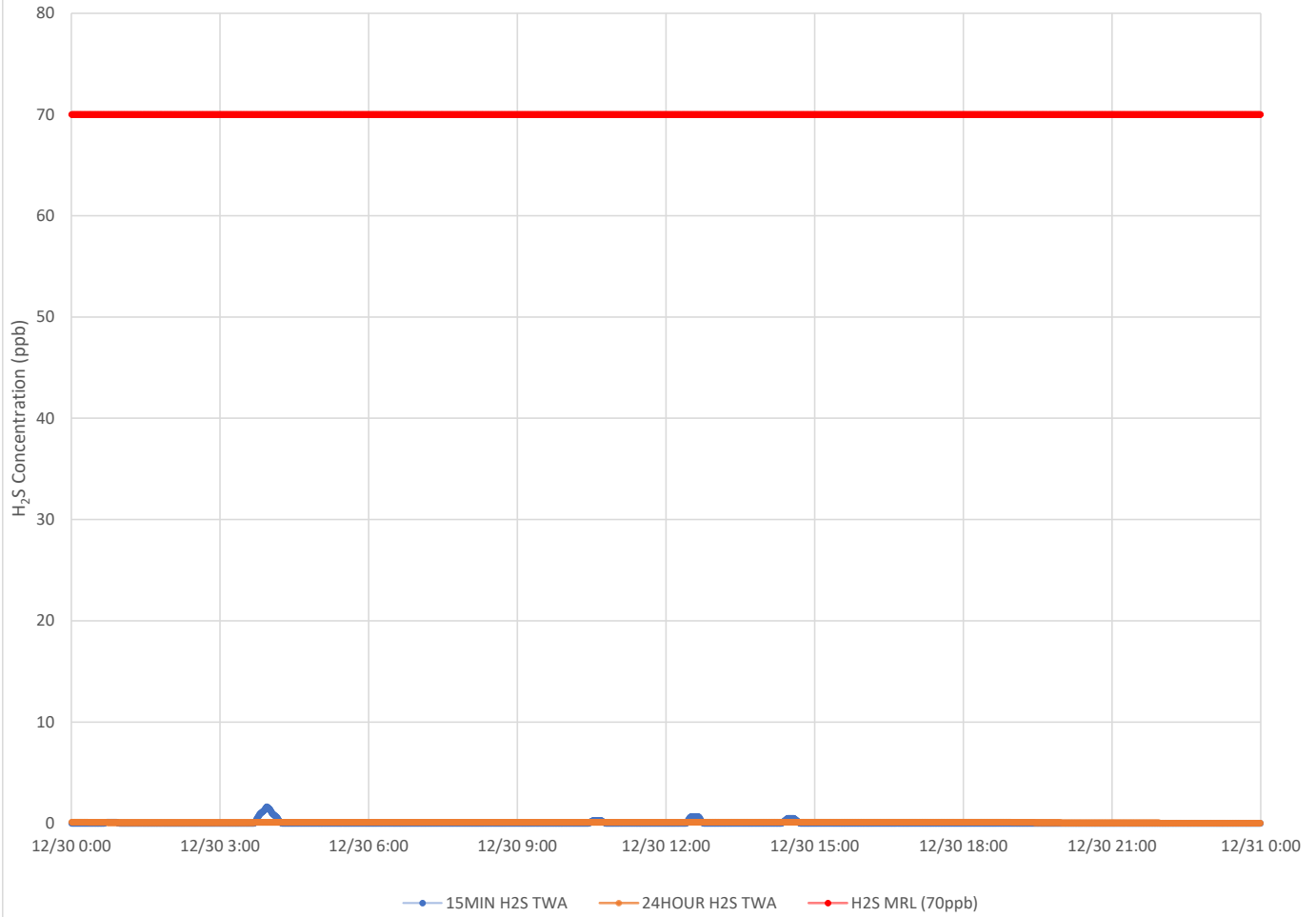
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 30, 2021



#### Notes:

Time is Eastern Standard Time

H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

# Air Monitoring Summary Tables

This table summarizes monitoring data collected using DHEC monitors and EPA's Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South Carolina



**From:** 12/31/21  
12:00 AM

**To:** 12/31/21  
11:59 PM

Tom Stevens Rd							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 1	H2S	No	2880	391	0 - 4 ppb	0.26 ppb	70 ppb

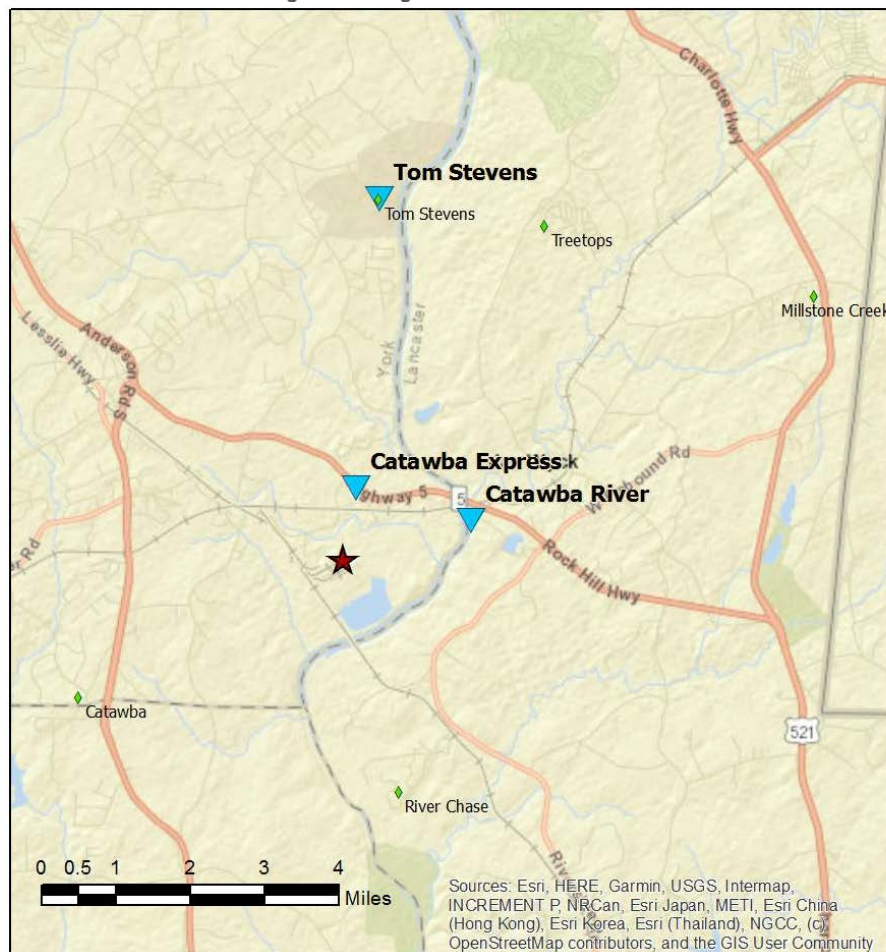
**Catawba River** Monitor Off line

Catawba Express							
Instrument	Analyte	ATSDR MRL Exceedance?	Number of Readings	Number of Detections	Concentration Range	Period Average	ATSDR MRL
SPM Flex 2	H2S	No	2880	134	0 - 5 ppb	0.09 ppb	70 ppb

**Notes:**

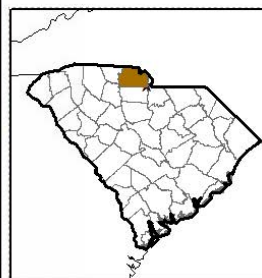
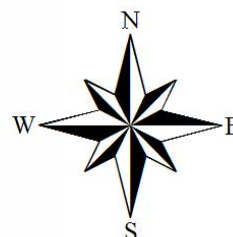
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- ATSDR MRL Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H<sub>2</sub>S 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 Average



**Legend**

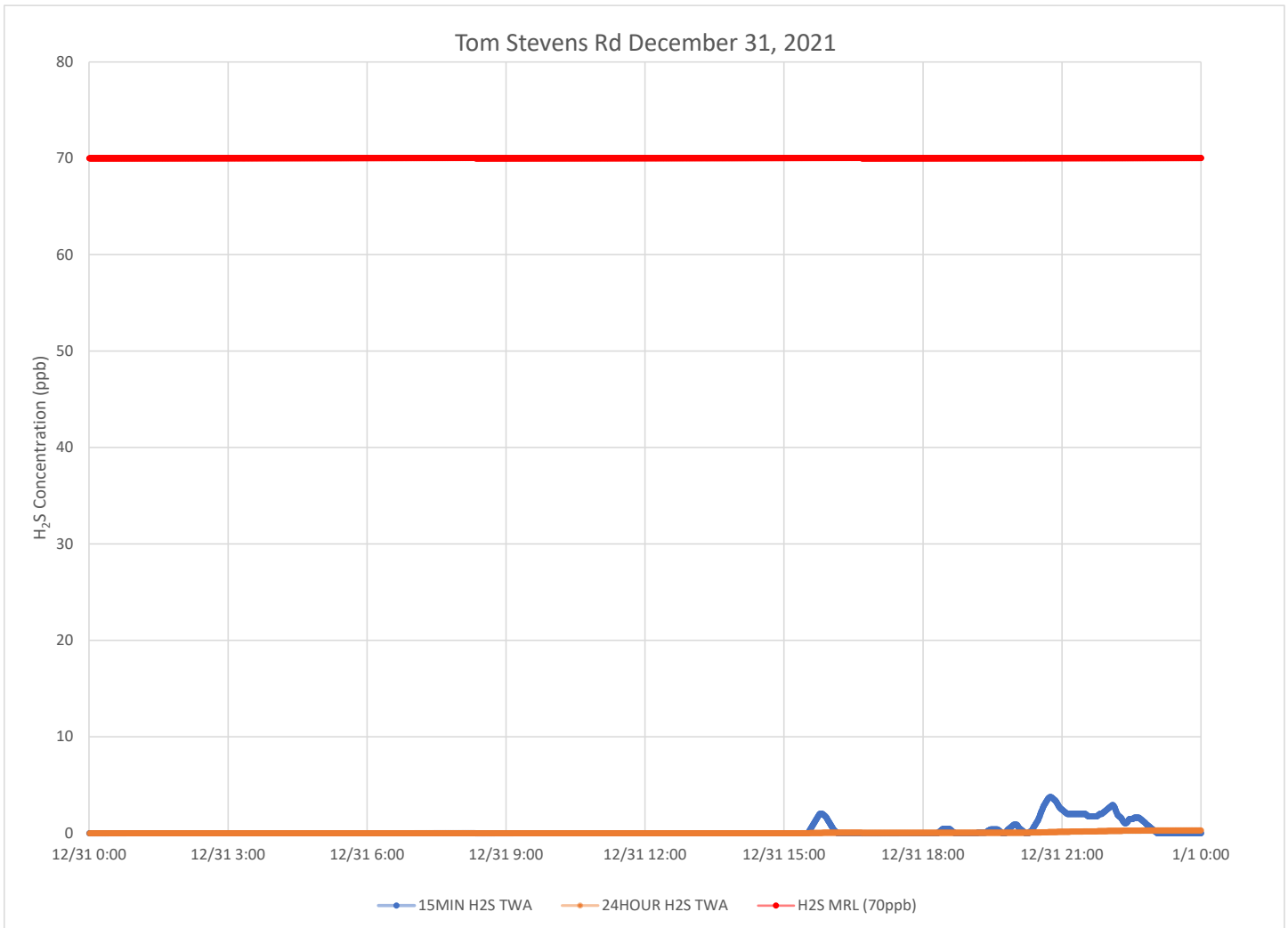
- ★ New Indy Containerboard
- ◆ NI Offsite Monitor
- ▼ DHEC Monitor



# H<sub>2</sub>S in South Carolina

## Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

During this period, the wind came from the southwest to west in the early morning, shifting to more from the south to southwest for the remainder of the period.



### Notes:

Time is Eastern Standard Time

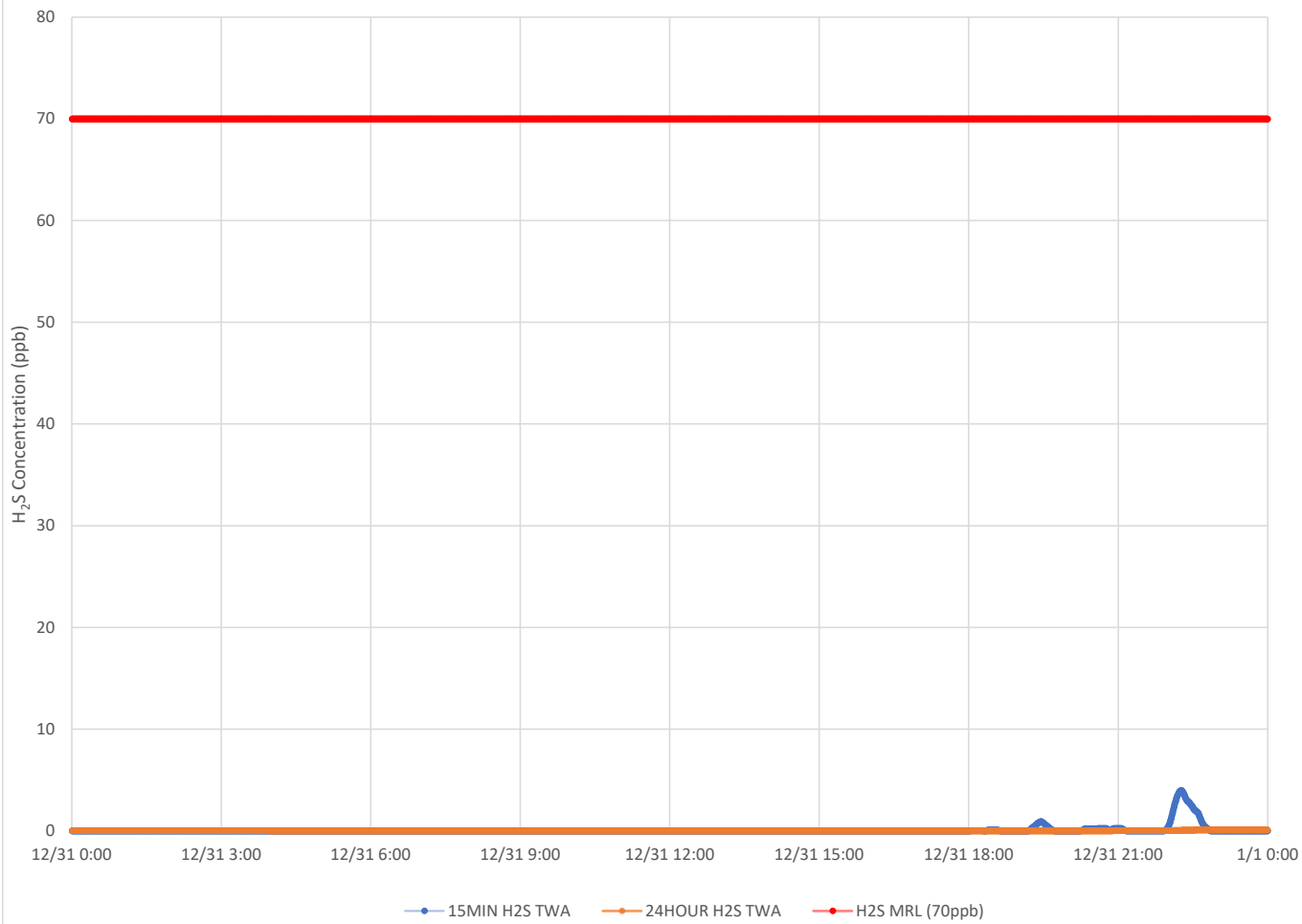
H<sub>2</sub>S – Hydrogen Sulfide

MIN – Minute

MRL – Minimal Risk Level

ppb – Parts per billion

### Catawba Express December 31, 2021



**Notes:**

- Time is Eastern Standard Time
- H<sub>2</sub>S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion