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

**Project Name:** H₂S in South Carolina

<table>
<thead>
<tr>
<th>From: 4/1/22</th>
<th>To: 4/1/22</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 AM</td>
<td>11:59 PM</td>
</tr>
</tbody>
</table>

### Tom Stevens Rd

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
</tr>
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</table>

### Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>27549</td>
<td>14493</td>
<td>0 - 5 ppb</td>
<td>0.98 ppb</td>
<td>70 ppb</td>
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### Catawba Express

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average

---

**Legend**:
- **New Indy Contaminant**
- **NI Offsite Monitor**
- **DHEC Monitor**

Source: Esri HERE, Garmin, USGS, Intergis, INCREMENT P, IHS, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, QGis, OpenStreetMap contributors, and the GIS User Community.
Winds came from the west southwest to west through late evening, shifting to more from the north to northeast at the end of the period.

Notes: Time is Eastern Daylight Time  H₂S – Hydrogen Sulfide  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:** H₂S in South Carolina

<table>
<thead>
<tr>
<th>From:</th>
<th>4/2/22 12:00 AM</th>
<th>To:</th>
<th>4/2/22 11:59 PM</th>
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## Tom Stevens Rd

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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
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<td>2880</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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## Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
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<td>No</td>
<td>27550</td>
<td>673</td>
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## Catawba Express

<table>
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<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>215</td>
<td>0 - 4 ppb</td>
<td>0.13 ppb</td>
<td>70 ppb</td>
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</table>

Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average

Legend:

- New Indy Contaminant
- NI Offsite Monitor
- DHEC Monitor

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, INTELEOS, MAPDATA, METI, Air and Ocean, Esri (Thailand), MGIC, MGL, GeoEye, ArcGIS, i-cubed, USGS, IGN, Shaded Relief Map contributors, and the Geo Data Community.
Winds were light to calm through much of the day and late night. When measurable, winds were from the northeast to east in the morning, shifting to from the south to southwest during the late afternoon to early evening.
Air Monitoring Summary Tables
This table summarizes monitoring data collected using DHEC monitors and EPA’s Viper wireless remote monitoring system.

**Project Name:** H₂S in South Carolina

**From:** 4/3/22 12:00 AM  
**To:** 4/3/22 11:59 PM

### Tom Stevens Rd

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<th>Number of Detections</th>
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<th>Period Average</th>
<th>ATSDR MRL</th>
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<tr>
<td>SPM Flex 1</td>
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<td>No</td>
<td>2880</td>
<td>484</td>
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<td>0.25 ppb</td>
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### Catawba River

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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
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<td>27557</td>
<td>2493</td>
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### Catawba Express

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<th>Number of Readings</th>
<th>Number of Detections</th>
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</thead>
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<tr>
<td>SPM Flex 2</td>
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<td>2880</td>
<td>1174</td>
<td>0 - 12 ppb</td>
<td>1.65 ppb</td>
<td>70 ppb</td>
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</tbody>
</table>

**Notes:**
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average

---

**Legend:**
- **Star:** New Indy Containerboard
- **Diamond:** NI Offsite Monitor
- **Triangle:** DHEC Monitor

*Source: Esri WHOE, Giann, U.S.G.S, Intmap, INCREMENT P, NRDAN, ESRI Japan, METI, ESI China (Hong Kong), ESI Korea, ESI (Thailand), NGCC, (C) OpenGeoMap contributors, and the GIS User Community.*
Winds were light to calm through much of the morning and late night. When measurable, winds were from the southwest to west in the morning, shifting to from the northwest to north from midday to early evening.

Notes: Time is Eastern Daylight Time  \( \text{H}_2\text{S} \) – Hydrogen Sulfide  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:** H2S in South Carolina

<table>
<thead>
<tr>
<th>Location</th>
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<th>Analyte</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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</thead>
<tbody>
<tr>
<td>Tom Stevens Rd</td>
<td>SPM Flex 1</td>
<td>H2S</td>
<td>No</td>
<td>2880</td>
<td>0</td>
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<td>70 ppb</td>
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<tr>
<td></td>
<td>SPM Flex 3</td>
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<td>27546</td>
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<tr>
<td>Catawba Express</td>
<td>SPM Flex 2</td>
<td>H2S</td>
<td>No</td>
<td>2879</td>
<td>277</td>
<td>0 - 9 ppb</td>
<td>0.3 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average

![Map of South Carolina with locations marked](image_url)

Sources: Esri, HERE, Garmin, USGS, Intmap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (shijingshang), Esri Korea, Esri (Thailand), NGCC, QGO, OpenStreetMap contributors, and the CIS Ujas Community.
Winds were light to calm through much of this period. When measurable, winds were from the northeast to east through midday and from the south southwest to west southwest in the late afternoon to early evening.

Notes: Time is Eastern Daylight Time  H$_2$S – Hydrogen Sulfide  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:** H₂S in South Carolina

**From:** 4/5/22 12:00 AM  
**To:** 4/5/22 11:59 PM

### Tom Stevens Rd

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>713</td>
<td>0 - 4 ppb</td>
<td>0.41 ppb</td>
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### Catawba River

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<tr>
<th>Instrument</th>
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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
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<td>4943</td>
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### Catawba Express

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<th>Instrument</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tr>
<td>SPM Flex 2</td>
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<td>2880</td>
<td>2245</td>
<td>0 - 21 ppb</td>
<td>3.44 ppb</td>
<td>70 ppb</td>
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</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average

Legend:
- New Indy Contaminant
- NI Offsite Monitor
- DHEC Monitor

Sources: Esri HERE, Garmin, USGS, Intermap, INCREMENT P, NRC, Esri Japan, METI, Esri China (Shenzhen), Esri Korea, Esri (Thailand), NGCC, OR, OpenStreetMap contributors, and the GIS User Community.
Winds were from the south to southwest throughout the period.
Air Monitoring Summary Tables

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

**Project Name:** H₂S in South Carolina

<table>
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<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
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<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2872</td>
<td>243</td>
<td>0 - 2 ppb</td>
<td>0.13 ppb</td>
<td>70 ppb</td>
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</table>

**Catawba River**

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>27465</td>
<td>12951</td>
<td>0 - 5 ppb</td>
<td>1.11 ppb</td>
<td>70 ppb</td>
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</table>

**Catawba Express**

<table>
<thead>
<tr>
<th>Instrument</th>
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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>2872</td>
<td>780</td>
<td>0 - 11 ppb</td>
<td>0.6 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average

---

Legend:
- New Indy Contaminant
- NI Offsite Monitor
- DHEC Monitor

Sources: Esri HERE, Garmin, UOSG, Intermap, INCREMENT P, ING, ESRI Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, CC, OpenStreetMap contributors, and the GIS User Community.
H₂S in South Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

During this period winds shifted from west through west southwest to more from the southwest to south.

Notes: Time is Eastern Daylight Time    H₂S – Hydrogen Sulfide    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:** H₂S in South Carolina

**From:** 4/7/22 12:00 AM  
**To:** 4/7/22 11:59 PM

### Tom Stevens Rd

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<th>Instrument</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
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<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>215</td>
<td>0 - 7 ppb</td>
<td>0.21 ppb</td>
<td>70 ppb</td>
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### Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
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<th>Period Average</th>
<th>ATSDR MRL</th>
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<td>0.82 ppb</td>
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### Catawba Express

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<th>Instrument</th>
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<th>ATSDR MRL Exceedance?</th>
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<th>Number of Detections</th>
<th>Concentration Range</th>
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<th>ATSDR MRL</th>
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<td>0.76 ppb</td>
<td>70 ppb</td>
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</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average

---

**Legend:**

- New Indy Containerboard
- NI Offsite Monitor
- DHEC Monitor

Sources: Esri HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Shenzhen), Esri (Thailand), NGCC, GEOSpatial Data Alliance, OpenStreetMap contributors, and the CIS User Community.
During this period winds shifted from south to southwest to more from the southwest to west southwest.
## Air Monitoring Summary Tables

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

**Project Name:** H$_2$S in South Carolina

**From:** 4/8/22 12:00 AM  
**To:** 4/8/22 11:59 PM

### Tom Stevens Rd

<table>
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<th>Number of Detects</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H2S</td>
<td>No</td>
<td>2880</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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</tbody>
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### Catawba River

<table>
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<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
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<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H2S</td>
<td>No</td>
<td>27563</td>
<td>12816</td>
<td>0 - 13 ppb</td>
<td>0.76 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

### Catawba Express

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detects</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H2S</td>
<td>No</td>
<td>2881</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

### Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **ATSDR MRL** Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H$_2$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 Containorboard**
- **NI Offsite Monitor**
- **DHEC Monitor**

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT, PIR, Can, Esri Japan, METI, Esri China (Shanghai), Esri (Thailand), NGCC, GE, OpenStreetMap contributors, and the GIS User Community.
After a brief shift of winds from the north northwest in the early morning, winds were from the southwest to west through the remainder of the 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$_2$S in South Carolina

**From:** 4/9/22 12:00 AM  
**To:** 4/9/22 11:59 PM

## Tom Stevens Rd

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H$_2$S</td>
<td>No</td>
<td>2880</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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</table>

## Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H$_2$S</td>
<td>No</td>
<td>27516</td>
<td>10991</td>
<td>0 - 7 ppb</td>
<td>0.84 ppb</td>
<td>70 ppb</td>
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## Catawba Express

<table>
<thead>
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<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H$_2$S</td>
<td>No</td>
<td>2880</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

**ATSDR MRL**: Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)

**H$_2$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

---

[Map of locations]
H₂S in South Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

During this period winds were from the southwest to west northwest.

Notes: Time is Eastern Daylight Time  H₂S – Hydrogen Sulfide  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:** H₂S in South Carolina

**From:** 4/10/22 12:00 AM  
**To:** 4/10/22 11:59 PM

### Tom Stevens Rd

<table>
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<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<td>226</td>
<td>0 - 4 ppb</td>
<td>0.15 ppb</td>
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### Catawba River

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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>27546</td>
<td>5624</td>
<td>0 - 5 ppb</td>
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<td>70 ppb</td>
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### Catawba Express

<table>
<thead>
<tr>
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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>386</td>
<td>0 - 6 ppb</td>
<td>0.35 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average

---

---
During this period winds were variable, but generally from the south to west.
Air Monitoring Summary Tables
This table summarizes monitoring data collected using DHEC monitors and EPA’s Viper wireless remote monitoring system.

*Project Name:* H₂S in South Carolina

<table>
<thead>
<tr>
<th>Tom Stevens Rd</th>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>727</td>
<td>0 - 3 ppb</td>
<td>0.4 ppb</td>
<td>70 ppb</td>
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<table>
<thead>
<tr>
<th>Catawba River</th>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>27508</td>
<td>8997</td>
<td>0 - 13 ppb</td>
<td>1.09 ppb</td>
<td>70 ppb</td>
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<table>
<thead>
<tr>
<th>Catawba Express</th>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
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<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>2879</td>
<td>752</td>
<td>0 - 18 ppb</td>
<td>1.24 ppb</td>
<td>70 ppb</td>
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Notes:
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

| 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 Average |
During this period winds were consistently from the south southwest to west southwest.
Communication with the Tom Stevens and Catawba River sites was interrupted late in the day as indicated on the charts. Reported summary data is valid. If the unreported data is recovered, this report will be reissued.

Air Monitoring Summary Tables

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

Project Name: H₂S in South Carolina

From: 4/12/22
To: 4/12/22
12:00 AM
11:59 PM

Tom Stevens Rd

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>AT SDM Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>AT SDM MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2858</td>
<td>733</td>
<td>0 - 5 ppb</td>
<td>0.56 ppb</td>
<td>70 ppb</td>
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Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>AT SDM Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>AT SDM MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>27137</td>
<td>6706</td>
<td>0 - 10 ppb</td>
<td>0.89 ppb</td>
<td>70 ppb</td>
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Catawba Express

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>AT SDM Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>AT SDM MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>947</td>
<td>0 - 36 ppb</td>
<td>3.35 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

Notes:
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

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 Average

Legend:
New Indy Container
S Offsite Monitor
DHEC Monitor

Map of Tom Stevens and Catawba River sites with surrounding area.
During this period, winds were consistently from the south southwest to west southwest through early evening with some calm periods in the late evening.

Notes: Time is Eastern Daylight Time  H₂S – Hydrogen Sulfide  MRL – Minimal Risk Level  ppb – Parts per billion
Communication with the Tom Stevens and Catawba Express sites was interrupted for brief periods as indicated on the charts. Reported summary data is valid. If the unreported data is recovered, this report will be reissued.

Air Monitoring Summary Tables

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

Project Name: H₂S in South Carolina

From: 4/13/22 12:00 AM
To: 4/13/22 11:59 PM

<table>
<thead>
<tr>
<th>Tom Stevens Rd</th>
<th>Instrument</th>
<th>Analyte</th>
<th>AT SDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>AT SDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H2S</td>
<td>No</td>
<td>2854</td>
<td>1317</td>
<td>0 - 10 ppb</td>
<td>2.1 ppb</td>
<td>70 ppb</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Catawba River</th>
<th>Instrument</th>
<th>Analyte</th>
<th>AT SDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>AT SDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H2S</td>
<td>No</td>
<td>27548</td>
<td>833</td>
<td>0 - 2 ppb</td>
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<table>
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<th>Catawba Express</th>
<th>Instrument</th>
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<th>AT SDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>AT SDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H2S</td>
<td>No</td>
<td>2858</td>
<td>1868</td>
<td>0 - 30 ppb</td>
<td>5.3 ppb</td>
<td>70 ppb</td>
<td></td>
</tr>
</tbody>
</table>

Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

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 Average
During this period, winds were consistently from the south to southwest.

Notes:  Time is Eastern Daylight Time    H$_2$S – Hydrogen Sulfide    MRL – Minimal Risk Level    ppb – Parts per billion
Communication with the Catawba River and Catawba Express sites was interrupted for brief periods as indicated on the charts. Reported summary data is valid. If the unreported data is recovered, this report will be reissued.

Air Monitoring Summary Tables
This table summarizes monitoring data collected using DHEC monitors and EPA's VLP wireless remote monitoring system.

**Project Name:** H₂S in South Carolina

| From: 4/14/22 | To: 4/14/22 |
| 12:00 AM | 11:59 PM |

**Tom Stevens Rd**

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>338</td>
<td>0 - 4 ppb</td>
<td>0.24 ppb</td>
<td>70 ppb</td>
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</table>

**Catawba River**

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>27053</td>
<td>3185</td>
<td>0 - 6 ppb</td>
<td>0.24 ppb</td>
<td>70 ppb</td>
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**Catawba Express**

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
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<th>ATSDR MRL</th>
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<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>2824</td>
<td>1186</td>
<td>0 - 23 ppb</td>
<td>2.32 ppb</td>
<td>70 ppb</td>
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</table>

Notes:
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

**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 Average
Winds were consistently from the south to southwest until a significant shift to coming from just east of north starting in the evening and through the rest of the period.
Communication with the Catawba River and Catawba Express sites was interrupted for very brief periods as indicated on the charts. Reported summary data is valid. If the unreported data is recovered, this report will be reissued.

### Air Monitoring Summary Tables

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

**Project Name:** H₂S in South Carolina

**From:** 4/15/22 12:00 AM  
**To:** 4/15/22 11:59 PM

<table>
<thead>
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<th>Instrument</th>
<th>Analyte</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2837</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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</tbody>
</table>

### Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>27191</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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</table>

### Catawba Express

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
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<td>0 - 17 ppb</td>
<td>1.46 ppb</td>
<td>70 ppb</td>
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</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

**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 Average
Throughout the period wind direction was generally shifting from the north, to from the east, and ending coming from the south. Winds were generally light with periods of calm, most significantly, calm from midafternoon through evening.
Air Monitoring Summary Tables

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

**Project Name:** H$_2$S in South Carolina

From: 4/16/22 12:00 AM
To: 4/16/22 11:59 PM

### Tom Stevens Rd

<table>
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<th>Instrument</th>
<th>Analyte</th>
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<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H2S</td>
<td>No</td>
<td>2880</td>
<td>306</td>
<td>0 - 2 ppb</td>
<td>0.12 ppb</td>
<td>70 ppb</td>
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</table>

### Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H2S</td>
<td>No</td>
<td>27649</td>
<td>3206</td>
<td>0 - 3 ppb</td>
<td>0.18 ppb</td>
<td>70 ppb</td>
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### Catawba Express

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H2S</td>
<td>No</td>
<td>2880</td>
<td>1337</td>
<td>0 - 16 ppb</td>
<td>2.41 ppb</td>
<td>70 ppb</td>
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</table>

Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **ATSDR MRL**: Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H$_2$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 © NACan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c), OpenStreetMap contributors, and the GIS User Community.
H₂S in South Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

Winds were light to calm and generally from the south through midday then shifted to coming from the south southwest to west for the remainder of the period.

Notes: Time is Eastern Daylight Time  H₂S – Hydrogen Sulfide  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:** H₂S in South Carolina

**From:** 4/17/22 12:00 AM
**To:** 4/17/22 11:59 PM

<table>
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<th>Location</th>
<th>Instrument</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tom Stevens Rd</strong></td>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>18410</td>
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<td>0 - 0 ppb</td>
<td>0 ppb</td>
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<tr>
<td><strong>Catawba River</strong></td>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>27510</td>
<td>1331</td>
<td>0 - 7 ppb</td>
<td>0.13 ppb</td>
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</tr>
<tr>
<td><strong>Catawba Express</strong></td>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>2881</td>
<td>264</td>
<td>0 - 10 ppb</td>
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<td>70 ppb</td>
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</tbody>
</table>

**Notes:**
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

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 Average

---

**Legend:**
- New Indy Containerboard
- NI Offsite Monitor
- DHEC Monitor

---

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT © NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, IGU, OpenStreetMap contributors, and the GIS User Community.
Winds were light to calm throughout this period, but when detected were from the southwest to west until sunrise and from the north northeast to southeast through the remainder of the day and evening.
## Air Monitoring Summary Tables

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

**Project Name:** H$_2$S in South Carolina

**From:** 4/18/22
**To:** 4/18/22

### Tom Stevens Rd

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tbody>
<tr>
<td>SPM Flex 1</td>
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<td>0 - 0 ppb</td>
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</table>

### Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
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<td>SPM Flex 3</td>
<td>H2S</td>
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<td>27503</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
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### Catawba Express

<table>
<thead>
<tr>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tr>
<td>SPM Flex 2</td>
<td>H2S</td>
<td>No</td>
<td>2880</td>
<td>83</td>
<td>0 - 8 ppb</td>
<td>0.11 ppb</td>
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</table>

**Notes:**
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

**ATSDR MRL**
Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)

**H$_2$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
- W. Ophite Monitor
- DHEC Monitor

---

**Map:**
- Tom Stevens
- Catawba River
- Catawba Express

Sources: Esri, HERE, Garmin, USGS, iMap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), NGCC, ITG, OpenStreetMap contributors, and the GIS User Community
Winds were light to calm through early morning, when detected coming from the east to southeast. During the remainder of the period, winds were from the north northwest to northeast.
# Air Monitoring Summary Tables

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

**Project Name:** H₂S in South Carolina

**From:** 4/19/22 12:00 AM  
**To:** 4/19/22 11:59 PM

## Tom Stevens Rd

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<tr>
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<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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</table>

## Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
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<th>ATSDR MRL</th>
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<td>SPM Flex 3</td>
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## Catawba Express

<table>
<thead>
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<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>130</td>
<td>0 - 4 ppb</td>
<td>0.1 ppb</td>
<td>70 ppb</td>
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</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average
Winds were from the west northwest to west during most of the period, becoming light and variable in the late evening and when measurable, from the east southeast.

Notes: Time is Eastern Daylight Time  H₂S – Hydrogen Sulfide  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:** H₂S in South Carolina

### From: 4/20/22 12:00 AM

### To: 4/20/22 11:59 PM

### Tom Stevens Rd

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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
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<td>2880</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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</tbody>
</table>

### Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
<tr>
<td>SPM Flex 3</td>
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<td>27504</td>
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### Catawba Express

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
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<th>ATSDR MRL</th>
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</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
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<td>607</td>
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<td>0.64 ppb</td>
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</tr>
</tbody>
</table>

### Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average

---

![Map of South Carolina with monitoring locations marked](image-url)
Winds were calm for much of the morning and evening. During the day, winds were predominantly from the south southeast to southwest.
Air Monitoring Summary Tables

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

**Project Name:** H$_2$S in South Carolina

<table>
<thead>
<tr>
<th>From: 4/21/22 12:00 AM</th>
<th>To: 4/21/22 11:59 PM</th>
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### Tom Stevens Rd

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<th>Instrument</th>
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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tbody>
<tr>
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### Catawba River

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<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H2S</td>
<td>No</td>
<td>27507</td>
<td>3552</td>
<td>0 - 4 ppb</td>
<td>0.26 ppb</td>
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### Catawba Express

<table>
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<tr>
<th>Instrument</th>
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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tr>
<td>SPM Flex 2</td>
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<td>2880</td>
<td>1537</td>
<td>0 - 12 ppb</td>
<td>2.05 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

**Legend:**

- **Star:** New Indy Containerboard
- **Green Diamond:** N OSHTE Monitor
- **Blue Diamond:** DHEC Monitor

**Sources:** Esri, DHEC, Garmin, USGS, Intermap, INCREMENT P, NMCA, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (C), OpenStreetMap contributors, and the GIS User Community

**Acronyms:**

- **ATSDR MRL:** Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H$_2$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
Winds were calm to light throughout the period, but when detected, came from the south in the early morning, shifting to more from the south southwest for the rest of the period.
Air Monitoring Summary Tables
This table summarizes monitoring data collected using DHEC monitors and EPA’s Viper wireless remote monitoring system.

**Project Name:** H₂S in South Carolina

<table>
<thead>
<tr>
<th>From:</th>
<th>To:</th>
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<tbody>
<tr>
<td>4/22/22 12:00 AM</td>
<td>4/22/22 11:59 PM</td>
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### Tom Stevens Rd

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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
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<th>ATSDR MRL</th>
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<td>SPM Flex 1</td>
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### Catawba River

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<th>Instrument</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tbody>
<tr>
<td>SPM Flex 3</td>
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### Catawba Express

<table>
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<th>Instrument</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
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<tbody>
<tr>
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<td>1478</td>
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<td>4.27 ppb</td>
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</table>

Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

**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 Average
Winds were calm to light throughout the period, but when detected, came from the south southwest to southwest in the early morning, shifting to the west to northwest midday and back to the south southwest for the rest of the period.

Notes: Time is Eastern Daylight Time  H₂S – Hydrogen Sulfide  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:** H₂S in South Carolina

**From:** 4/23/22 12:00 AM **To:** 4/23/22 11:59 PM

### Tom Stevens Rd

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<th>Instrument</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>603</td>
<td>0 - 7 ppb</td>
<td>0.48 ppb</td>
<td>70 ppb</td>
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### Catawba River

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<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
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<td>27504</td>
<td>3</td>
<td>0 - 1 ppb</td>
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<td>70 ppb</td>
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### Catawba Express

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>2879</td>
<td>1154</td>
<td>0 - 21 ppb</td>
<td>2.38 ppb</td>
<td>70 ppb</td>
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</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average

![Map of South Carolina with locations marked]
Winds were calm to light in the early morning and late evening. During the remainder of the period, winds were from the south southwest to west southwest.
Air Monitoring Summary Tables

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

**Project Name:** H₂S in South Carolina

**From:** 4/24/22 12:00 AM  
**To:** 4/24/22 11:59 PM

### Tom Stevens Rd

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
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<td>2880</td>
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<td>0 - 5 ppb</td>
<td>0.29 ppb</td>
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### Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tbody>
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<td>SPM Flex 3</td>
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<td>2781</td>
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### Catawba Express

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<th>Number of Readings</th>
<th>Number of Detections</th>
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<td>697</td>
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</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average

---

**Legend**

- New Indy Containerboard
- N Offset Monitor
- DHEC Monitor

---

**Sources:** Esri, HERE, Garmin, USGS, iMap, INCREMENT P, IMC, Inc., Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (C) OpenStreetMap contributors, and the GIS User Community
Winds were from the south southwest to west southwest throughout the period.

Notes: Time is Eastern Daylight Time  H₂S – Hydrogen Sulfide  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:** H₂S in South Carolina

**From:** 4/25/22 12:00 AM  
**To:** 4/25/22 11:59 PM

### Tom Stevens Rd

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<th>Instrument</th>
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<th>Number of detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<td>SPM Flex 1</td>
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<td>No</td>
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<td>617</td>
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### Catawba River

<table>
<thead>
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<th>Number of detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tr>
<td>SPM Flex 3</td>
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<td>27505</td>
<td>7583</td>
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### Catawba Express

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<th>Period Average</th>
<th>ATSDR MRL</th>
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<tr>
<td>SPM Flex 2</td>
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<td>2880</td>
<td>1023</td>
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<td>1.14 ppb</td>
<td>70 ppb</td>
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</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

**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 Average

---

**Legend**

- New Indy Containerboard
- N Offsite Monitor
- DHEC Monitor


OpenStreetMap contributors, and the GIS User Community.
H2S in South Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Average Graphs

Winds were from the south southwest trending to more from the west southwest through early afternoon, afterwards becoming more from the southwest for the remainder of the period.

Notes: Time is Eastern Daylight Time  H2S – Hydrogen Sulfide  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:** H₂S in South Carolina

**From:** 4/26/22 12:00 AM  
**To:** 4/26/22 11:59 PM

### Tom Stevens Rd

<table>
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<tr>
<th>Instrument</th>
<th>Analyte</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>AT SDR MRL</th>
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<tr>
<td>SPM Flex 1</td>
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<td>659</td>
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### Catawba River

<table>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>AT SDR MRL</th>
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<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
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<td>2915</td>
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### Catawba Express

<table>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>AT SDR MRL</th>
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<tr>
<td>SPM Flex 2</td>
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<td>1.2 ppb</td>
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Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

**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 Average
Winds were from the south southwest, trending to more from the west southwest through midafternoon, afterwards becoming more from the north. Data from the York County Airport (KUZA) is unavailable after 6PM DST, but other local measurements indicate that area winds remained generally from the north for the remainder of the period.
Air Monitoring Summary Tables
This table summarizes monitoring data collected using DHEC monitors and EPA’s Viper wireless remote monitoring system.

Project Name: H₂S in South Carolina

From: 4/27/22
12:00 AM

To: 4/27/22
11:59 PM

### Tom Stevens Rd

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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### Catawba River

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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</thead>
<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>27516</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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</table>

### Catawba Express

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
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<td>2880</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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</tbody>
</table>

Notes:
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

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 Average

Legend:
- New Indy Containerboard
- N Offsite Monitor
- DHEC Monitor

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, iNera, Eni-Japan, METI, Esri China (Hong Kong), Esri Japan, Esri (Thailand), NGCC, iGeo, OpenStreetMap contributors, and the GIS User Community
H$_2$S in South Carolina

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

Data from the York County Airport (KUZA) was unavailable for this period but other local measurements indicate that area winds remained generally from the north to northeast throughout the period.

Notes: Time is Eastern Daylight Time  H$_2$S – Hydrogen Sulfide  MRL – Minimal Risk Level  ppb – Parts per billion
The Catawba River site monitor pump failed at 4:37 PM. The reported period average for the Catawba River site is only for the 24 hour period up to the time of the failure.

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

Project Name: H₂S in South Carolina

<table>
<thead>
<tr>
<th>From:</th>
<th>4/28/22</th>
<th>12:00 AM</th>
</tr>
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<tbody>
<tr>
<td>To:</td>
<td>4/28/22</td>
<td>11:59 PM</td>
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Tom Stevens Rd

<table>
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<th>Analyte</th>
<th>AT SDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>AT SDR MRL</th>
</tr>
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<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>2880</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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Catawba River 0000-1637

<table>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Limited Period Average</th>
<th>AT SDR MRL</th>
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<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>27527</td>
<td>2504</td>
<td>0 - 2 ppb</td>
<td>0.13 ppb</td>
<td>70 ppb</td>
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</table>

Catawba Express

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>AT SDR MRL</th>
</tr>
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<tbody>
<tr>
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<td>No</td>
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<td>1047</td>
<td>0 - 15 ppb</td>
<td>1.19 ppb</td>
<td>70 ppb</td>
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</table>

Notes:
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

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 Average
Data from the York County Airport (KUZA) was unavailable for the early hours of this period, but other local measurements indicate that area winds remained generally from the north to northeast through midafternoon. Winds became calm to light, shifted to from the southwest in the early evening and were calm overnight.

Notes: Time is Eastern Daylight Time  H₂S – Hydrogen Sulfide  MRL – Minimal Risk Level  ppb – Parts per billion
The Catawba River site monitor was replaced at 11:30 AM. The reported period average for the Catawba River site is only for the time after the replacement to the end of the report period.

### Air Monitoring Summary Tables

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

**Project Name:** H₂S in South Carolina

<table>
<thead>
<tr>
<th>From</th>
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<td>4/29/22 11:59 PM</td>
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#### Tom Stevens Rd

<table>
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<tr>
<th>Instrument</th>
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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
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#### Catawba River 1130-2359

<table>
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#### Catawba Express

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<th>Instrument</th>
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<th>Number of Readings</th>
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<th>Concentration Range</th>
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</table>

Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average
Winds were calm in the early morning and light and variable in the afternoon. When measurable, winds were primarily from the south southwest to southwest.

**Notes:** Time is Eastern Daylight Time   H\(_2\)S – Hydrogen Sulfide   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:** H₂S in South Carolina

**From:** 4/30/22 12:00 AM  
**To:** 4/30/22 11:59 PM

## Tom Stevens Rd

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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<td>0.05 ppb</td>
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## Catawba River

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<th>Number of Readings</th>
<th>Number of Detections</th>
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<th>Period Average</th>
<th>ATSDR MRL</th>
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## Catawba Express

<table>
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<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
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<tr>
<td>SPM Flex 2</td>
<td>H₂S</td>
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<td>2880</td>
<td>613</td>
<td>0 - 18 ppb</td>
<td>1.18 ppb</td>
<td>70 ppb</td>
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**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion. The SPM FLEX Minimum Detectable Limit (MDL) is 1 ppb of Hydrogen Sulfide.

- **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 Average
Winds were from the south southwest to west southwest, becoming calm in the last several hours of the period.

Notes: Time is Eastern Daylight Time  H$_2$S – Hydrogen Sulfide  MRL – Minimal Risk Level  ppb – Parts per billion