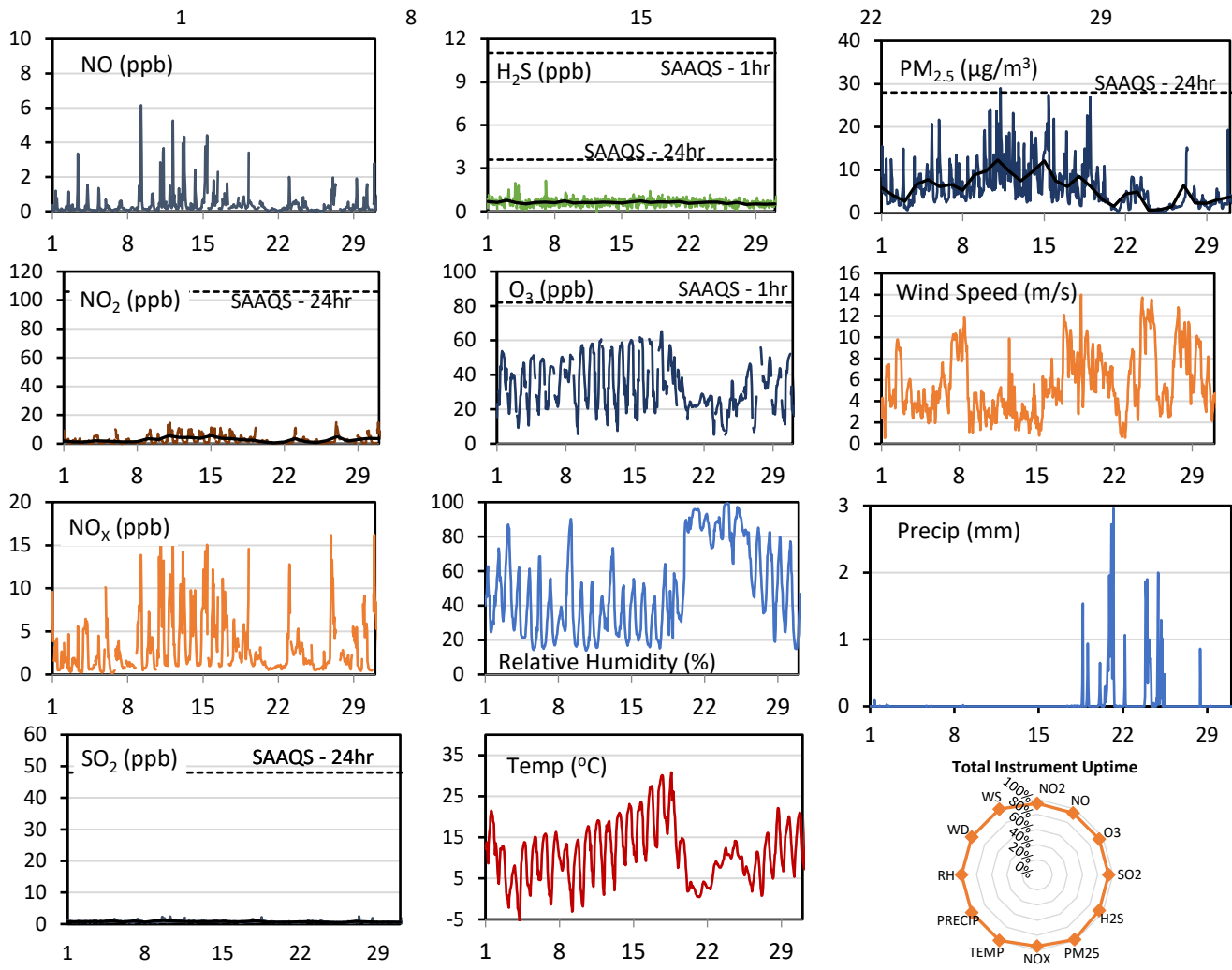
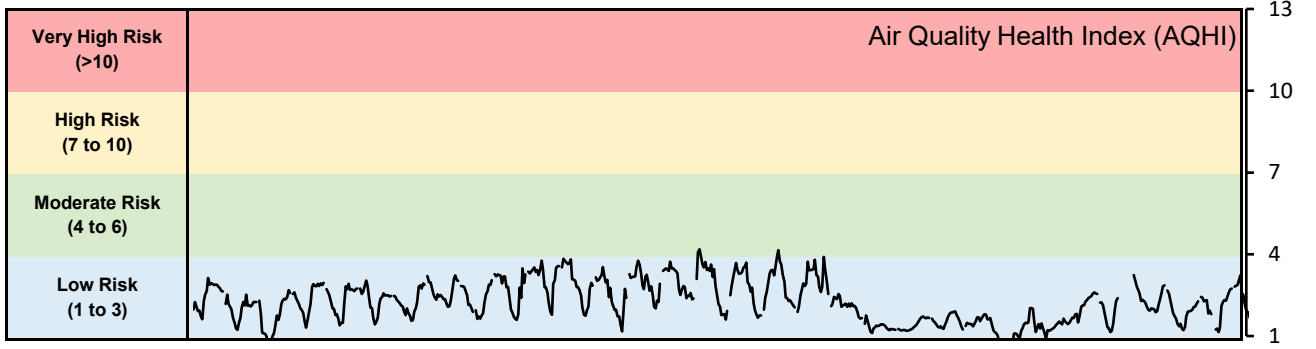


## GPAZ Pense Station - May 2021 Summary Report

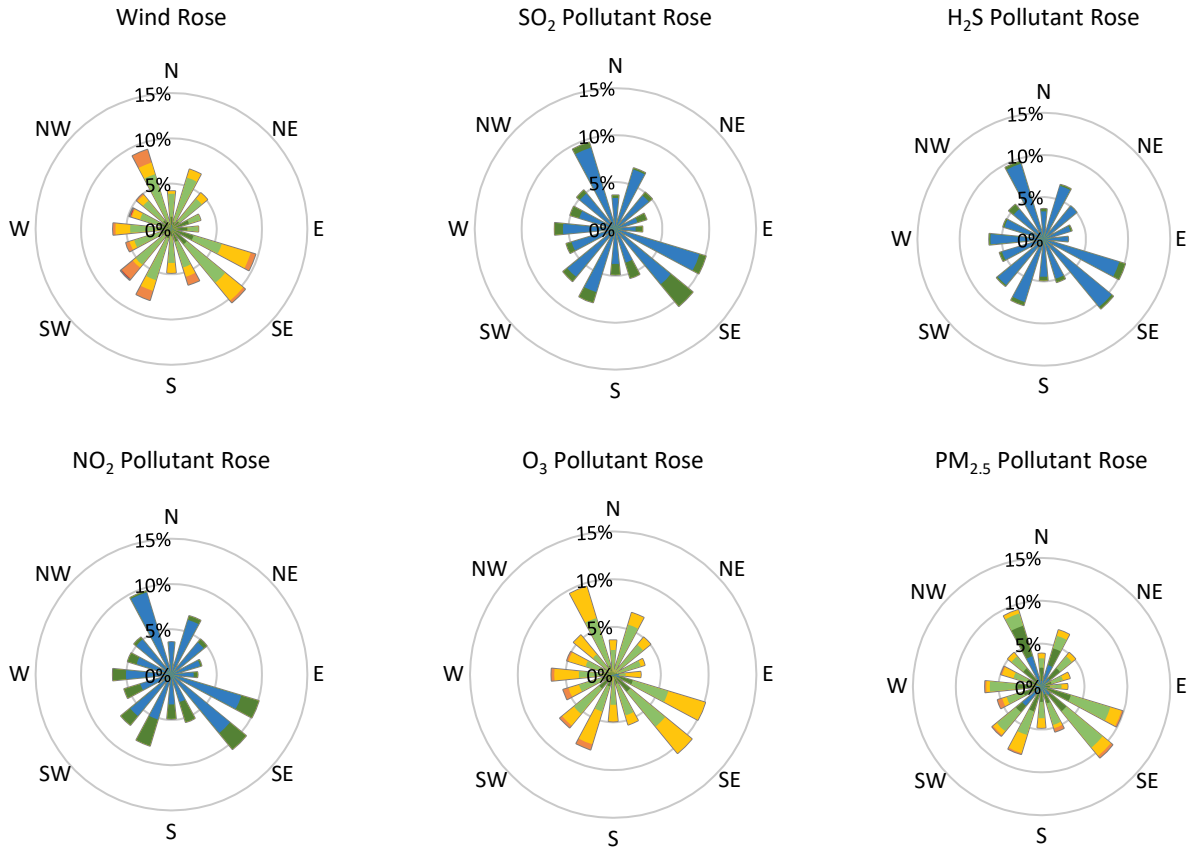
| Pollutants        |                   | Month Records |              | 24-Hour Records |        |                |             | 1-Hour Records |              |                |              |
|-------------------|-------------------|---------------|--------------|-----------------|--------|----------------|-------------|----------------|--------------|----------------|--------------|
| Name              | Conc. Unit        | Avg. Conc.    | Total Uptime | Maximum         |        | SAAQS Standard | Exceed Days | Maximum        |              | SAAQS Standard | Exceed Hours |
|                   |                   |               |              | Conc.           | Time   |                |             | Conc.          | Time         |                |              |
| NO                | ppb               | 0.4           | 94%          | 1.1             | May-15 | -              | -           | 6.2            | May-09 06:00 | -              | -            |
| NO <sub>2</sub>   | ppb               | 2.6           | 94%          | 5.7             | May-15 | 106            | 0           | 14.9           | May-26 22:00 | 159            | 0            |
| NO <sub>x</sub>   | ppb               | 3.1           | 94%          | 6.9             | May-15 | -              | -           | 17.1           | May-11 02:00 | -              | -            |
| SO <sub>2</sub>   | ppb               | 0.8           | 94%          | 1.1             | May-10 | 48             | 0           | 2.5            | May-27 07:00 | 172            | 0            |
| H <sub>2</sub> S  | ppb               | 0.6           | 94%          | 0.8             | May-03 | 3.6            | 0           | 2.1            | May-07 02:00 | 11             | 0            |
| O <sub>3</sub>    | ppb               | 33.7          | 94%          | 42.2            | May-18 | -              | -           | 65.3           | May-17 17:00 | 82             | 0            |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 5.8           | 99%          | 12.4            | May-11 | 28             | 0           | 29.0           | May-11 06:00 | -              | -            |

SAAQS: Saskatchewan Ambient Air Quality Standards



\* colored lines indicate 1-hr concentration data for all parameters; solid black lines indicate 24-hr concentrations for PM<sub>2.5</sub>, NO<sub>2</sub>, SO<sub>2</sub>, and H<sub>2</sub>S

**GPAZ Pense Station - May 2021 Summary Report**



| Parameters        | Unit              | Color Code for Wind Speed and Pollution Concentration Class |                |                |                 |                  |           |
|-------------------|-------------------|---|----------------|----------------|-----------------|------------------|-----------|
|                   |                   | 0.3 ≤ WS < 1.4  | 1.4 ≤ WS < 3.1 | 3.1 ≤ WS < 7.8 | 7.8 ≤ WS < 10.8 | 10.8 ≤ WS < 13.6 | WS ≥ 13.6 |
| SO <sub>2</sub>   | ppb               | 0 ≤ C < 1   | 1 ≤ C < 5      | 5 ≤ C < 10     | 10 ≤ C < 57     | 57 ≤ C < 172     | C ≥ 172   |
| NO <sub>2</sub>   | ppb               | 0 ≤ C < 5   | 5 ≤ C < 15     | 15 ≤ C < 30    | 30 ≤ C < 100    | 100 ≤ C < 212    | C ≥ 212   |
| H <sub>2</sub> S  | ppb               | 0 ≤ C < 1   | 1 ≤ C < 3.6    | 3.6 ≤ C < 5    | 5 ≤ C < 8       | 8 ≤ C < 10.8     | C ≥ 10.8  |
| O <sub>3</sub>    | ppb               | 0 ≤ C < 10  | 10 ≤ C < 20    | 20 ≤ C < 40    | 40 ≤ C < 60     | 60 ≤ C < 82      | C ≥ 82    |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 0 ≤ C < 2   | 2 ≤ C < 4      | 4 ≤ C < 10     | 10 ≤ C < 20     | 20 ≤ C < 30      | C ≥ 30    |

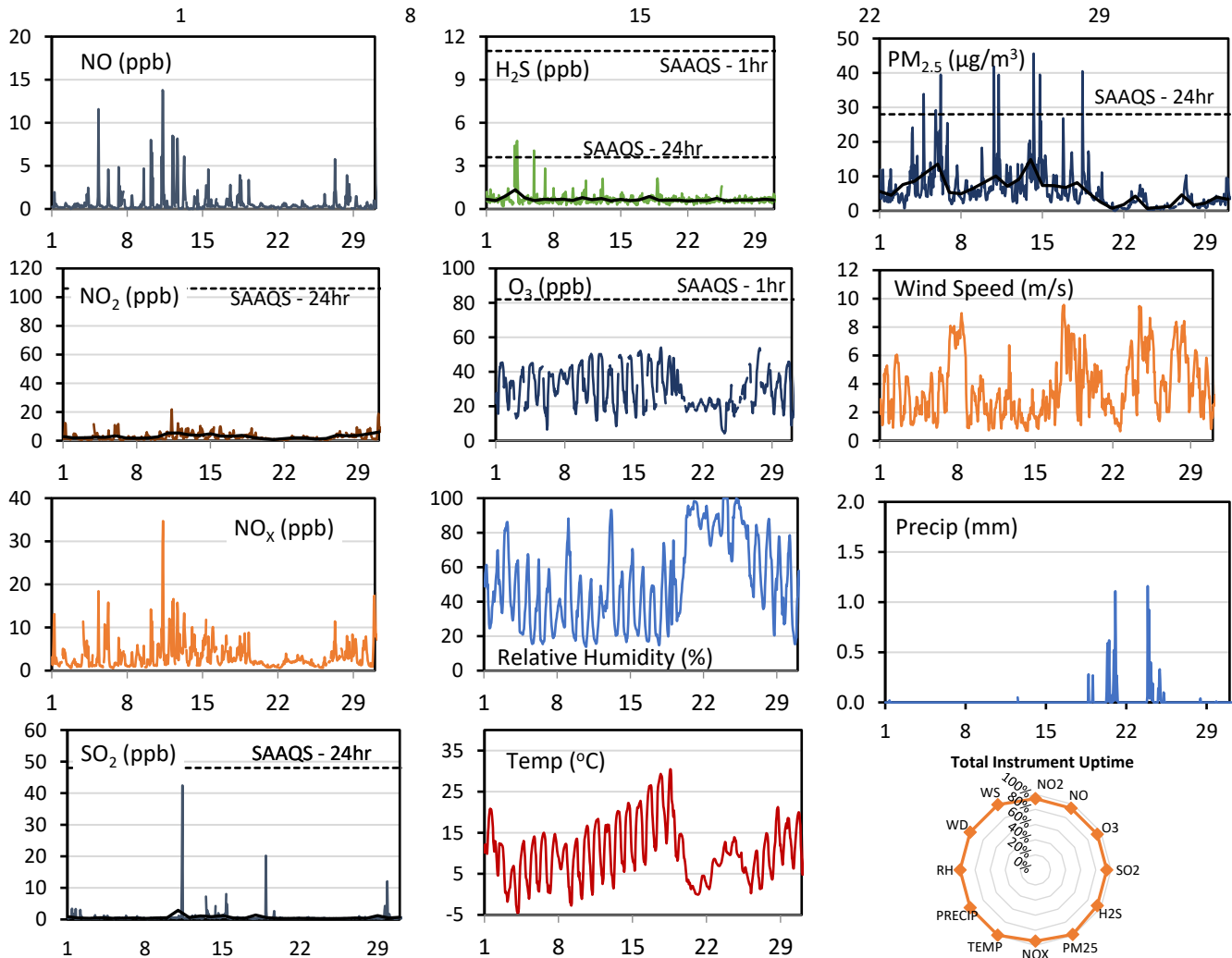
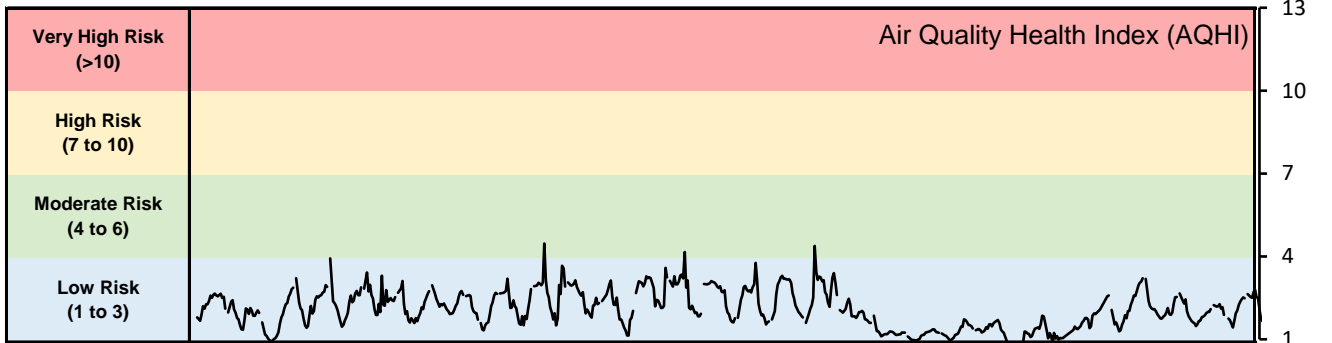
**Monthly Update**

- Achieved at least 94% of scheduled uptime for all parameters
- Downtime of <6% due to routine daily internal zeroes and spans, and quarterly calibration

## GPAZ Regina Station - May 2021 Summary Report

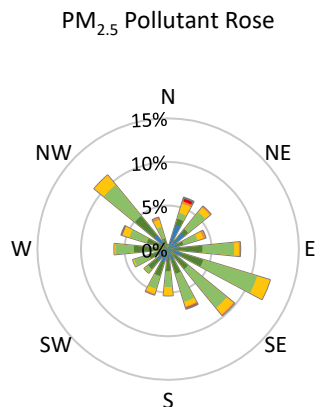
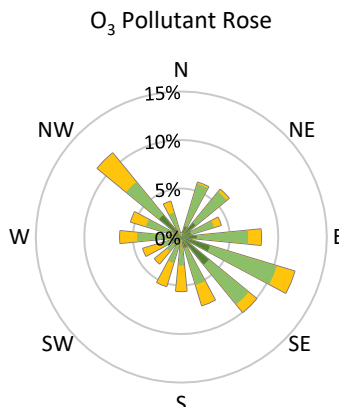
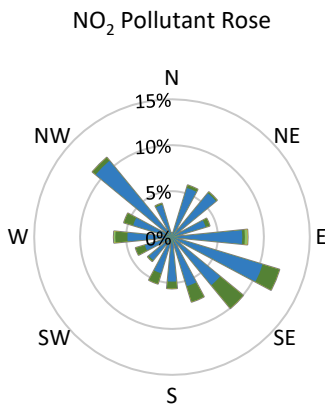
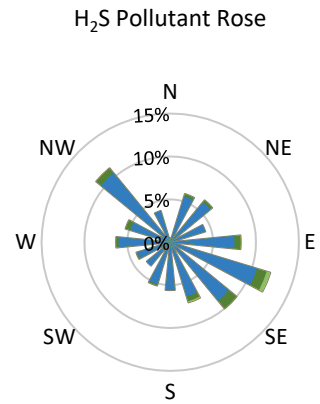
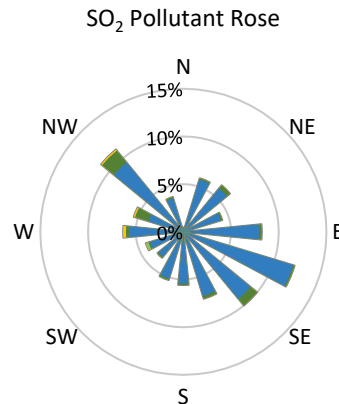
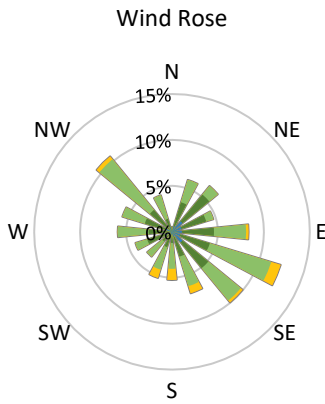
| Pollutants        |                   | Month Records |              | 24-Hour Records |        |                |             | 1-Hour Records |              |                |              |
|-------------------|-------------------|---------------|--------------|-----------------|--------|----------------|-------------|----------------|--------------|----------------|--------------|
| Name              | Conc. Unit        | Avg. Conc.    | Total Uptime | Maximum         |        | SAAQS Standard | Exceed Days | Maximum        |              | SAAQS Standard | Exceed Hours |
|                   |                   |               |              | Conc.           | Time   |                |             | Conc.          | Time         |                |              |
| NO                | ppb               | 0.6           | 94%          | 2.0             | May-12 | -              | -           | 13.8           | May-11 07:00 | -              | -            |
| NO <sub>2</sub>   | ppb               | 2.9           | 94%          | 6.0             | May-31 | 106            | 0           | 21.8           | May-11 08:00 | 159            | 0            |
| NO <sub>x</sub>   | ppb               | 3.4           | 94%          | 7.2             | May-12 | -              | -           | 34.7           | May-11 08:00 | -              | -            |
| SO <sub>2</sub>   | ppb               | 0.6           | 94%          | 2.9             | May-11 | 48             | 0           | 42.4           | May-11 09:00 | 172            | 0            |
| H <sub>2</sub> S  | ppb               | 0.7           | 94%          | 1.3             | May-04 | 3.6            | 0           | 4.7            | May-04 05:00 | 11             | 0            |
| O <sub>3</sub>    | ppb               | 30.2          | 94%          | 37.0            | May-17 | -              | -           | 54.1           | May-17 18:00 | 82             | 0            |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 5.8           | 99%          | 14.9            | May-14 | 28             | 0           | 45.6           | May-14 06:00 | -              | -            |

SAAQS: Saskatchewan Ambient Air Quality Standards



\* colored lines indicate 1-hr concentration data for all parameters; solid black lines indicate 24-hr concentrations for PM<sub>2.5</sub>, NO<sub>2</sub>, SO<sub>2</sub>, and H<sub>2</sub>S

**GPAZ Regina Station - May 2021 Summary Report**



| Parameters        | Unit              | Color Code for Wind Speed and Pollution Concentration Class |                     |                     |                      |                       |                |  |
|-------------------|-------------------|---|---------------------|---------------------|----------------------|-----------------------|----------------|--|
| Wind Speed        | m/s               | $0.3 \leq WS < 1.4$   | $1.4 \leq WS < 3.1$ | $3.1 \leq WS < 7.8$ | $7.8 \leq WS < 10.8$ | $10.8 \leq WS < 13.6$ | $WS \geq 13.6$ |  |
| SO <sub>2</sub>   | ppb               | $0 \leq C < 1$  | $1 \leq C < 5$      | $5 \leq C < 10$     | $10 \leq C < 57$     | $57 \leq C < 172$     | $C \geq 172$   |  |
| NO <sub>2</sub>   | ppb               | $0 \leq C < 5$  | $5 \leq C < 15$     | $15 \leq C < 30$    | $30 \leq C < 100$    | $100 \leq C < 212$    | $C \geq 212$   |  |
| H <sub>2</sub> S  | ppb               | $0 \leq C < 1$  | $1 \leq C < 3.6$    | $3.6 \leq C < 5$    | $5 \leq C < 8$       | $8 \leq C < 10.8$     | $C \geq 10.8$  |  |
| O <sub>3</sub>    | ppb               | $0 \leq C < 10$   | $10 \leq C < 20$    | $20 \leq C < 40$    | $40 \leq C < 60$     | $60 \leq C < 82$      | $C \geq 82$    |  |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | $0 \leq C < 2$  | $2 \leq C < 4$      | $4 \leq C < 10$     | $10 \leq C < 20$     | $20 \leq C < 30$      | $C \geq 30$    |  |

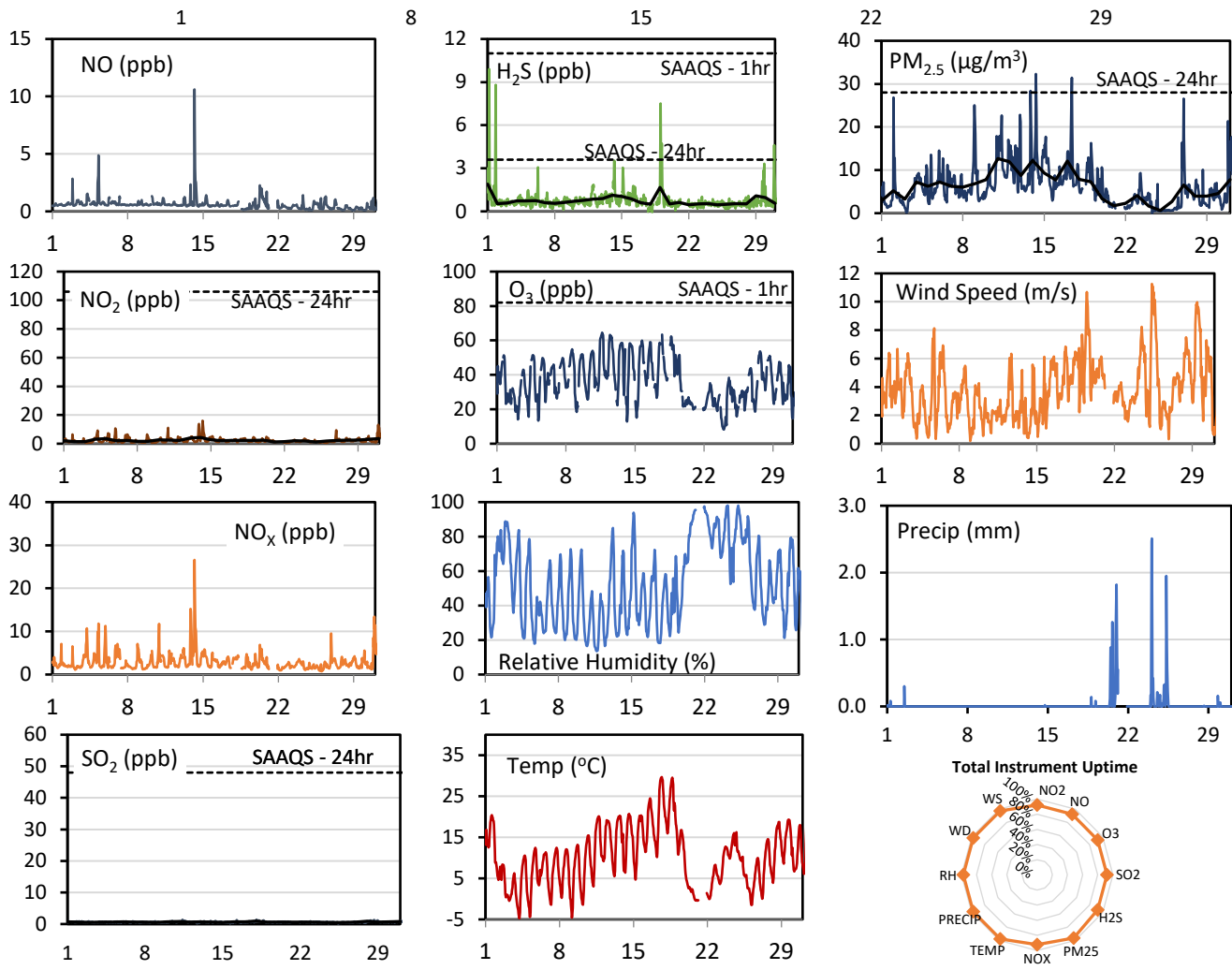
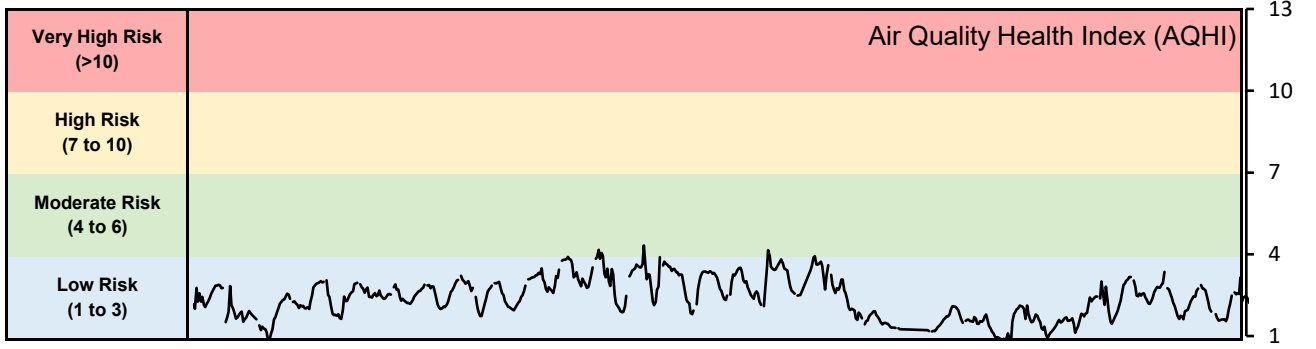
**Monthly Update**

- Achieved at least 94% of scheduled uptime for all parameters except Precip at 0% due to sensor failure
- Downtime of <6% due to routine daily internal zeroes and spans, and quarterly calibration

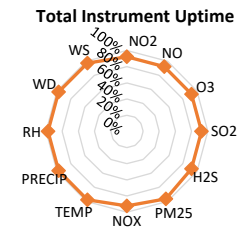
## GPAZ Yorkton Station - May 2021 Summary Report

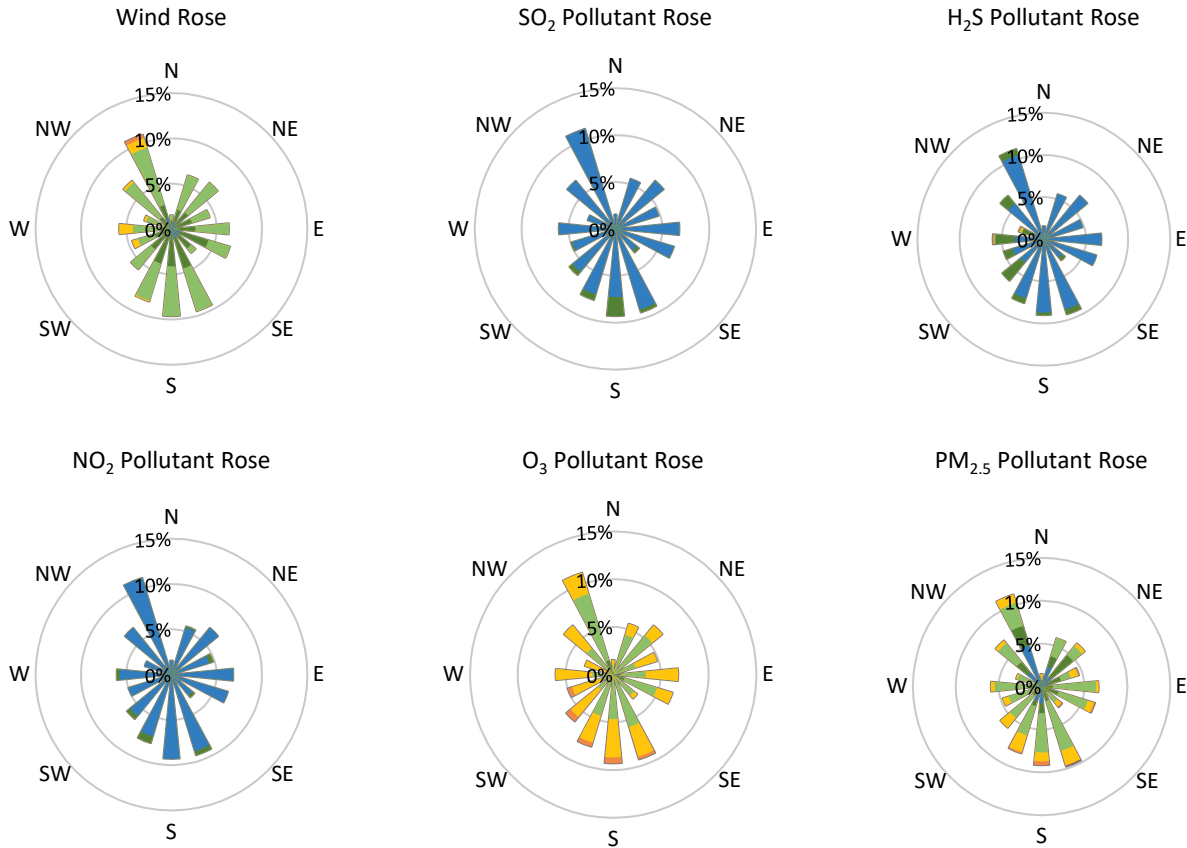
| Pollutants        |                   | Month Records |              | 24-Hour Records |        |                |             | 1-Hour Records |              |                |              |
|-------------------|-------------------|---------------|--------------|-----------------|--------|----------------|-------------|----------------|--------------|----------------|--------------|
| Name              | Conc. Unit        | Avg. Conc.    | Total Uptime | Maximum         |        | SAAQS Standard | Exceed Days | Maximum        |              | SAAQS Standard | Exceed Hours |
|                   |                   |               |              | Conc.           | Time   |                |             | Conc.          | Time         |                |              |
| NO                | ppb               | 0.6           | 92%          | 1.4             | May-14 | -              | -           | 10.6           | May-14 05:00 | -              | -            |
| NO <sub>2</sub>   | ppb               | 2.4           | 92%          | 4.4             | May-14 | 106            | 0           | 16.0           | May-14 05:00 | 159            | 0            |
| NO <sub>x</sub>   | ppb               | 2.9           | 92%          | 5.7             | May-14 | -              | -           | 26.6           | May-14 05:00 | -              | -            |
| SO <sub>2</sub>   | ppb               | 0.6           | 92%          | 0.9             | May-18 | 48             | 0           | 1.4            | May-18 01:00 | 172            | 0            |
| H <sub>2</sub> S  | ppb               | 0.8           | 92%          | 1.9             | May-01 | 3.6            | 0           | 9.9            | May-01 04:00 | 11             | 0            |
| O <sub>3</sub>    | ppb               | 36.8          | 92%          | 49.8            | May-12 | -              | -           | 64.5           | May-11 16:00 | 82             | 0            |
| PM <sub>2.5</sub> | µg/m <sup>3</sup> | 6.3           | 96%          | 12.7            | May-11 | 28             | 0           | 32.3           | May-14 07:00 | -              | -            |

SAAQS: Saskatchewan Ambient Air Quality Standards



\* colored lines indicate 1-hr concentration data for all parameters; solid black lines indicate 24-hr concentrations for PM<sub>2.5</sub>, NO<sub>2</sub>, SO<sub>2</sub>, and H<sub>2</sub>S





| Parameters        | Unit                     | Color Code for Wind Speed and Pollution Concentration Class |                     |                     |                      |                       |                |
|-------------------|--------------------------|---|---------------------|---------------------|----------------------|-----------------------|----------------|
|                   |                          | $0.3 \leq WS < 1.4$   | $1.4 \leq WS < 3.1$ | $3.1 \leq WS < 7.8$ | $7.8 \leq WS < 10.8$ | $10.8 \leq WS < 13.6$ | $WS \geq 13.6$ |
| SO <sub>2</sub>   | ppb                      | $0 \leq C < 1$  | $1 \leq C < 5$      | $5 \leq C < 10$     | $10 \leq C < 57$     | $57 \leq C < 172$     | $C \geq 172$   |
| NO <sub>2</sub>   | ppb                      | $0 \leq C < 5$  | $5 \leq C < 15$     | $15 \leq C < 30$    | $30 \leq C < 100$    | $100 \leq C < 212$    | $C \geq 212$   |
| H <sub>2</sub> S  | ppb                      | $0 \leq C < 1$  | $1 \leq C < 3.6$    | $3.6 \leq C < 5$    | $5 \leq C < 8$       | $8 \leq C < 10.8$     | $C \geq 10.8$  |
| O <sub>3</sub>    | ppb                      | $0 \leq C < 10$   | $10 \leq C < 20$    | $20 \leq C < 40$    | $40 \leq C < 60$     | $60 \leq C < 82$      | $C \geq 82$    |
| PM <sub>2.5</sub> | $\mu\text{g}/\text{m}^3$ | $0 \leq C < 2$  | $2 \leq C < 4$      | $4 \leq C < 10$     | $10 \leq C < 20$     | $20 \leq C < 30$      | $C \geq 30$    |

Monthly Update

- Achieved at least 92% of scheduled uptime for all parameters
- Downtime of <8% due to routine daily internal zeroes and spans, and quarterly calibration