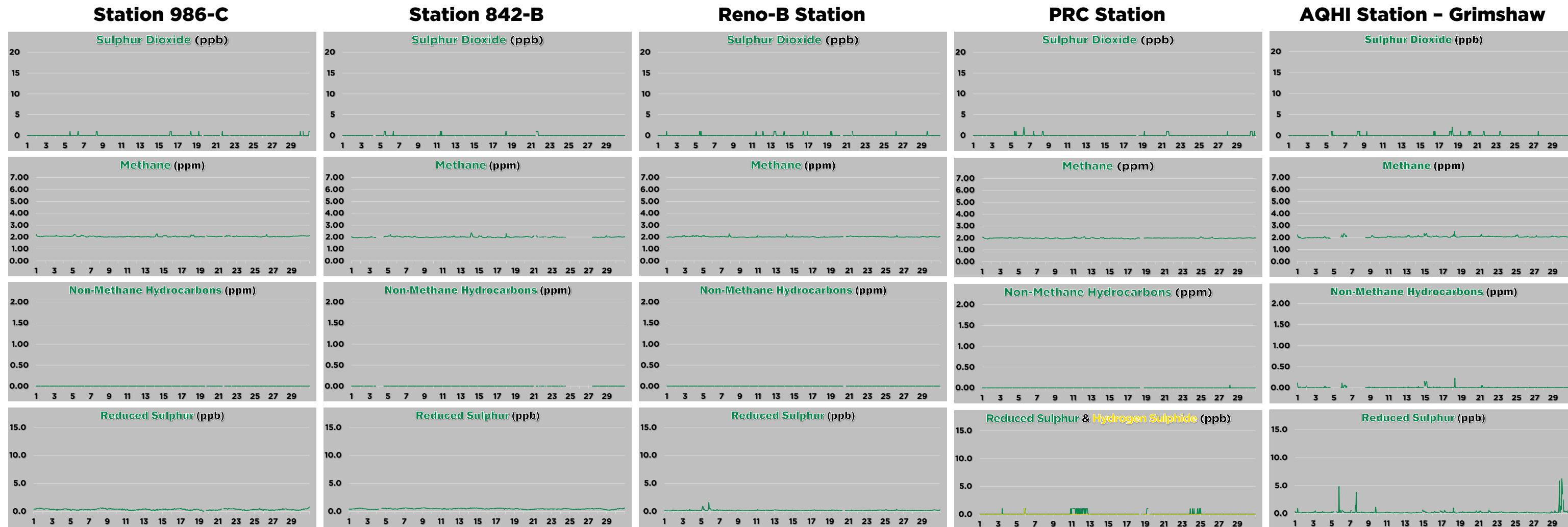


# April 2023: Active Monitoring Program



## Field Operations Summary (detailed field operations notes can be found in the monthly technical reports on the PRAMP [website](#))

### 986-C Station

- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.

### 842-B Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable. No major operational issues this month that resulted in reportable downtime events, except THC/CH<sub>4</sub>/NMHC (85.4%). **EPA reference #: 413785.**
- THC/CH<sub>4</sub>/NMHC:** Due to multiple bad injection events, the analyzer failed the shut-down calibrations on both April 3 and April 24. The Thermo 55i HC analyzer, s/n: 12208316589, was removed on April 25, and the Thermo 55i HC analyzer, s/n: 1314057759, was installed on April 26. A successful installation calibration was completed on April 27. One hundred and five hours of downtime were recorded due to these events.

### Reno-B Station

- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.

### PRC Station

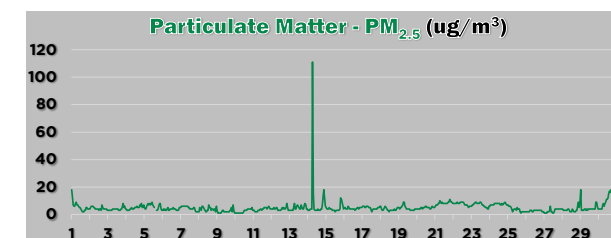
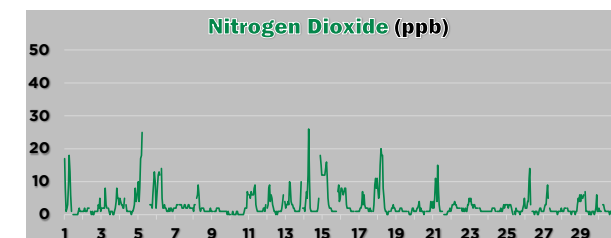
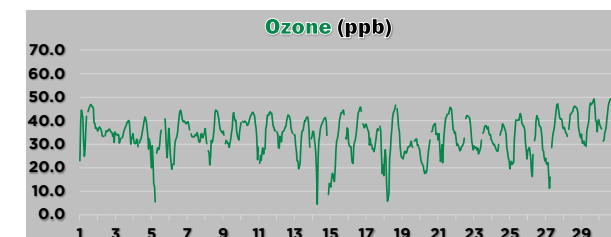
- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- Datalogger:** On April 18, the BV's datalogger, s/n: ACI4000637, was removed, and the recently repaired PRAMP's datalogger, s/n: ACK7004200, was installed. Two hours of downtime were recorded.
- THC/CH<sub>4</sub>/NMHC:** On April 18, the BV's Thermo 55i HC analyzer, s/n: 1022143392, was removed, and the CNRL's Thermo 55i HC analyzer, s/n: 1034745845, was installed. One hour of downtime was recorded.

### AQHI Station – Grimshaw

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) where applicable, except PM<sub>2.5</sub>. One one-hour PM<sub>2.5</sub> exceedance was recorded on April 14 at hour 6, at concentration of 111 ug/m<sup>3</sup>. **EPA reference #: 411705**
- No major operational issues this month that resulted in reportable downtime events, except THC/CH<sub>4</sub>/NMHC (89.3%). **EPA reference #: 413787.**
- THC/CH<sub>4</sub>/NMHC:** Due to multiple bad injection events, the analyzer failed the April 4's shut-down calibration. Maintenance was performed on April 4, and the post-repair calibration was completed on April 5. Data recorded between April 1 and April 4 were reviewed and discarded if data quality was affected by this issue. Persistent high NMHC values started being recorded on April 6. Maintenance was performed on April 7, and the post-repair calibration was completed on April 8. Data collected from April 6 hour 11 to April 8 hour 7 were invalid and discarded. Seventy-seven hours of downtime were recorded due to these events.

### NMHCs Canister Sampling Program

- There were no canister events recorded this month.



# April 2023: Active Monitoring Program

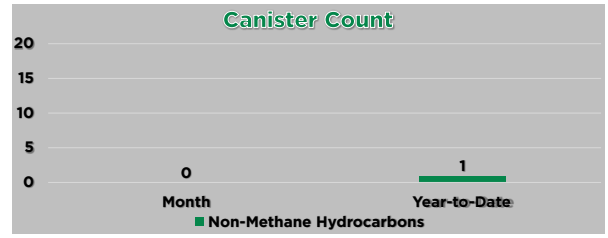
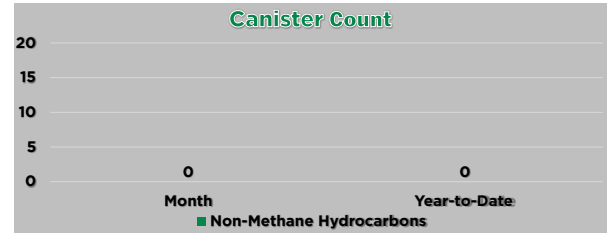
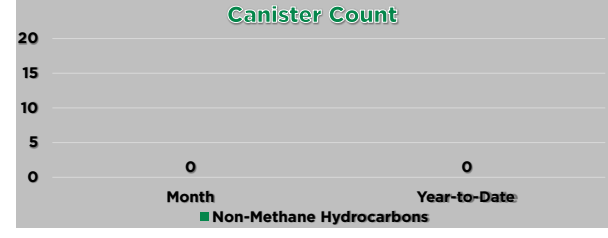
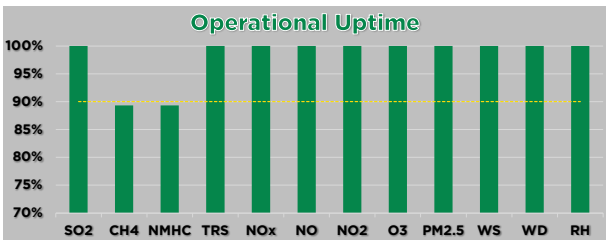
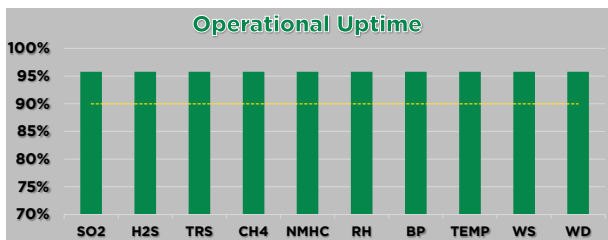
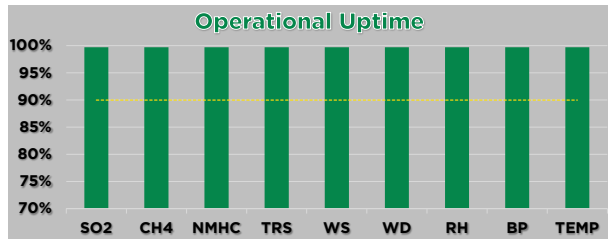
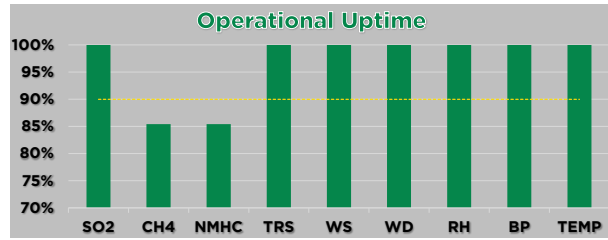
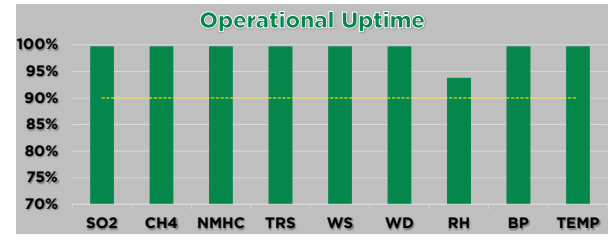
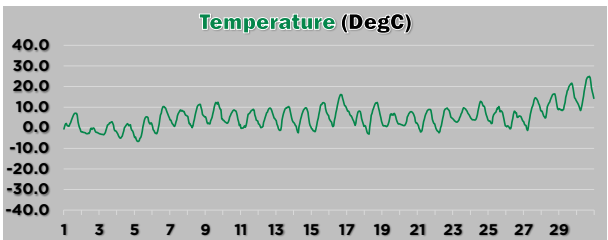
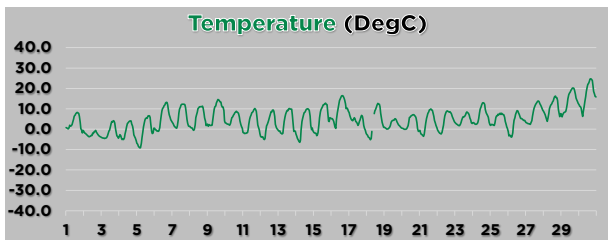
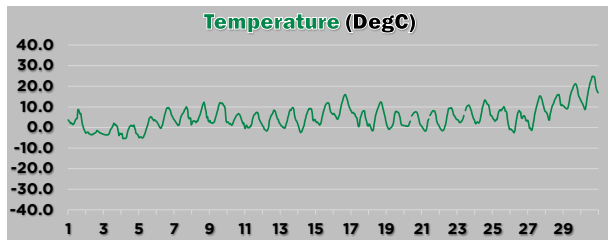
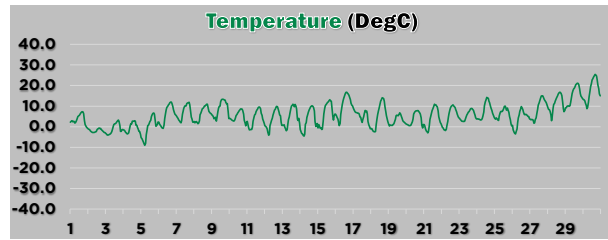
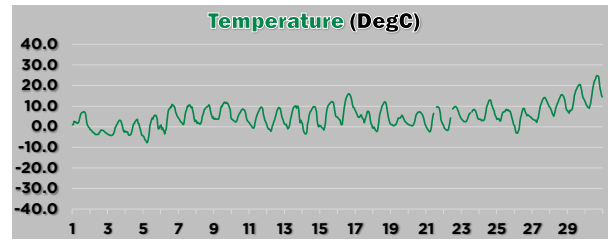
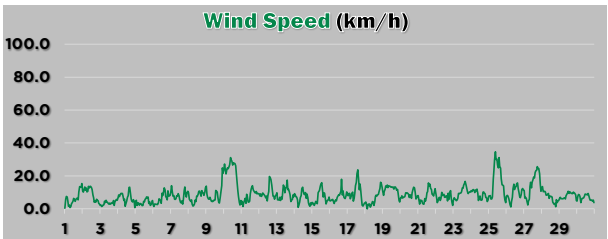
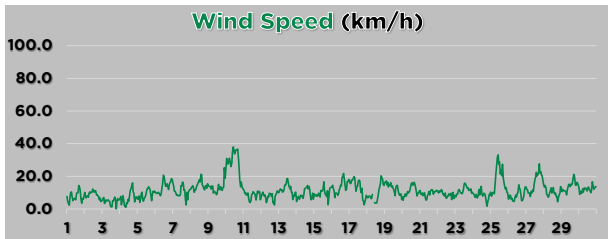
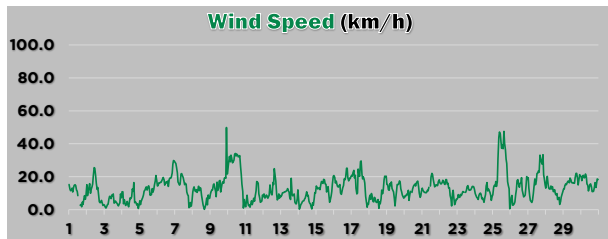
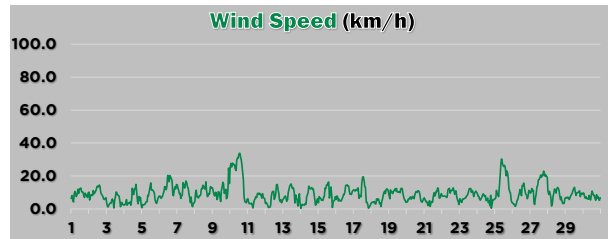
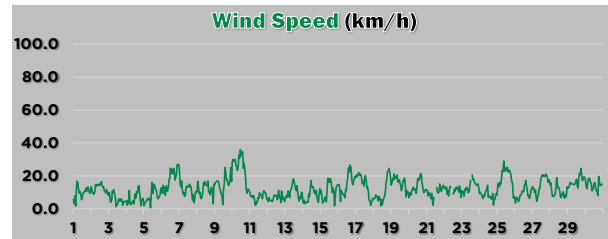
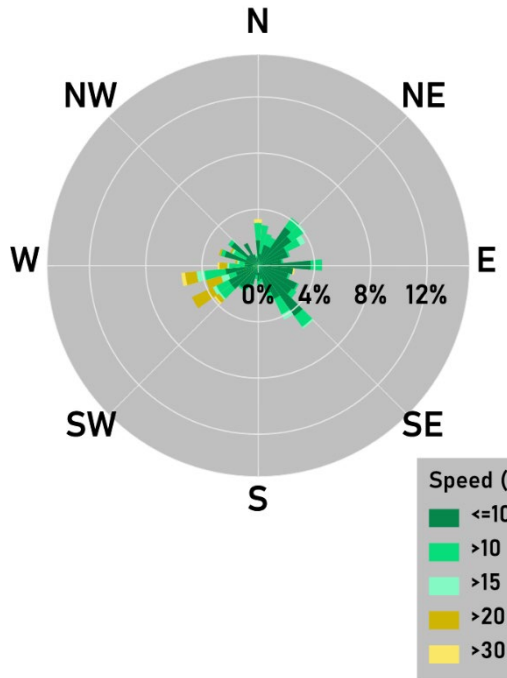
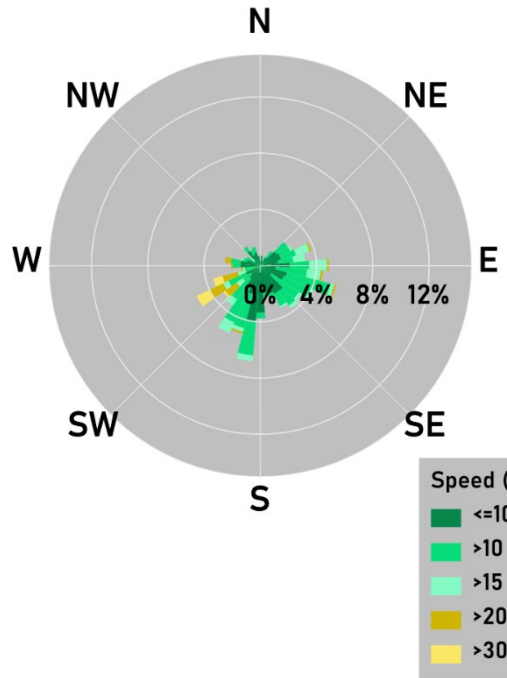
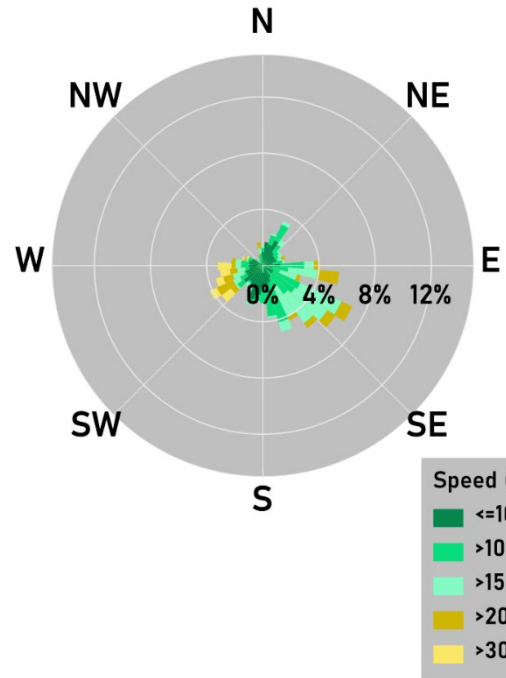
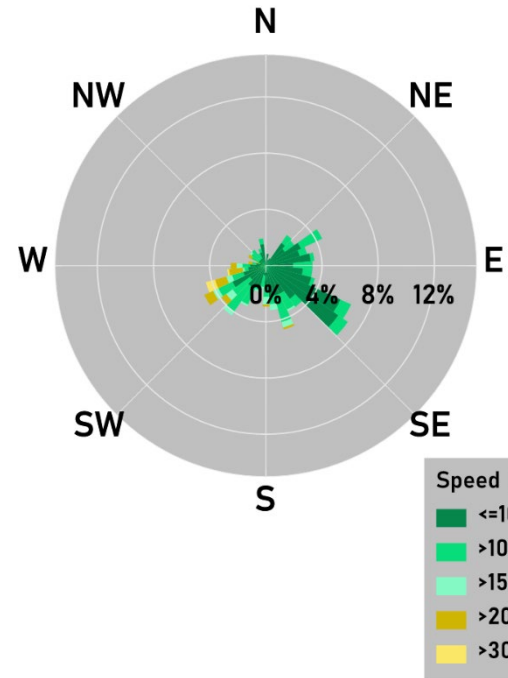
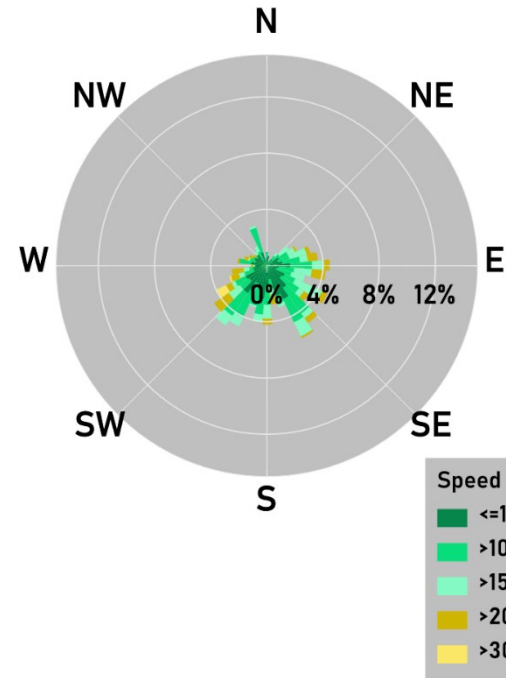
### Station 986-C

### Station 842-B

### Reno-B Station

### PRC Station

### AQHI Station - Grimshaw



### Targets, Guidelines, and Objectives

- Sulphur Dioxide 1h AAAQO = 172 ppb
- Ozone 1h AAAQO = 76 ppb
- Particulate Matter (PM<sub>2.5</sub>) 1h AAAQO = 80 ug/m<sup>3</sup>
- Nitrogen Dioxide 1h AAAQO = 159 ppb
- Operational Uptime Requirement = 90%
- AQHI Risk Value = 1-3 Low, 4-6 Moderate, 7-10 High, >10 Very High

