

November 2019: Continuous Monitoring Program

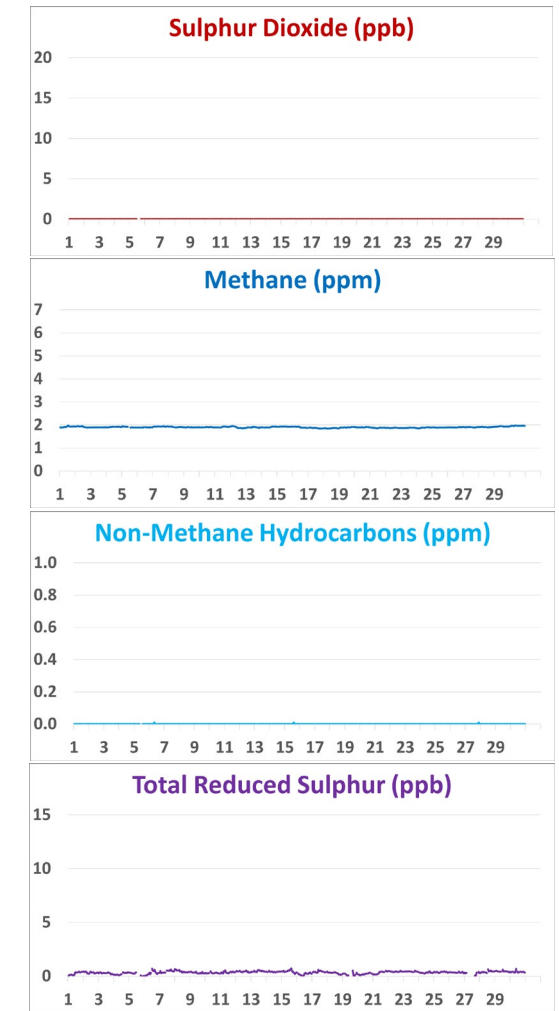
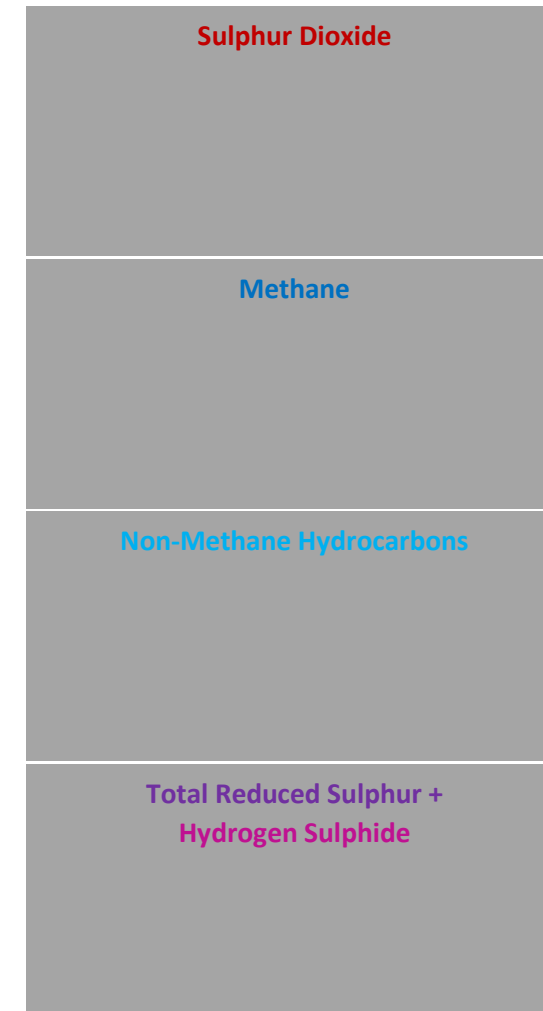
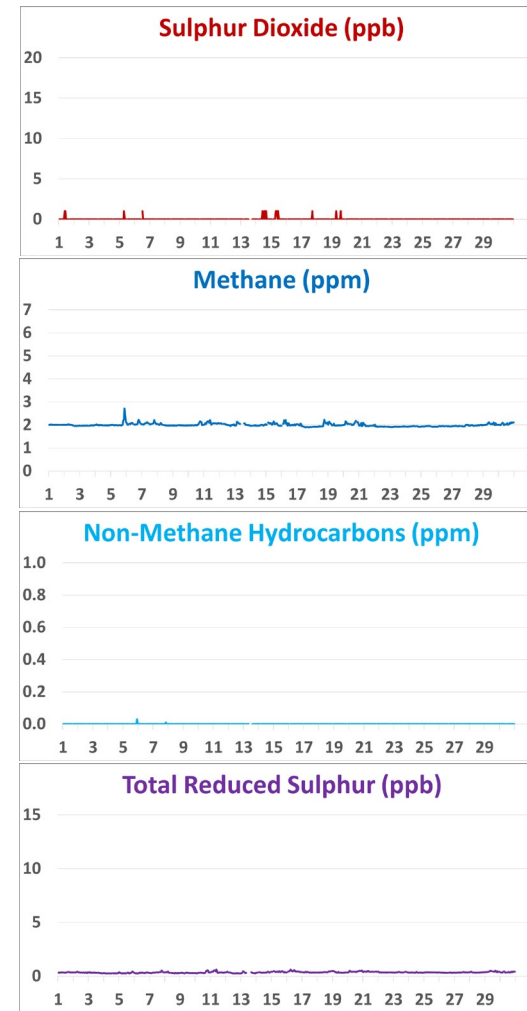
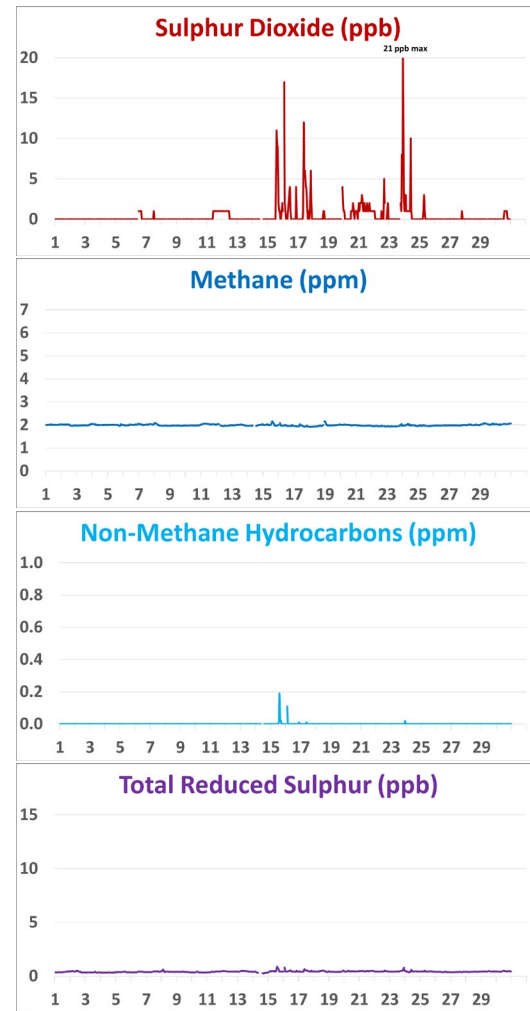
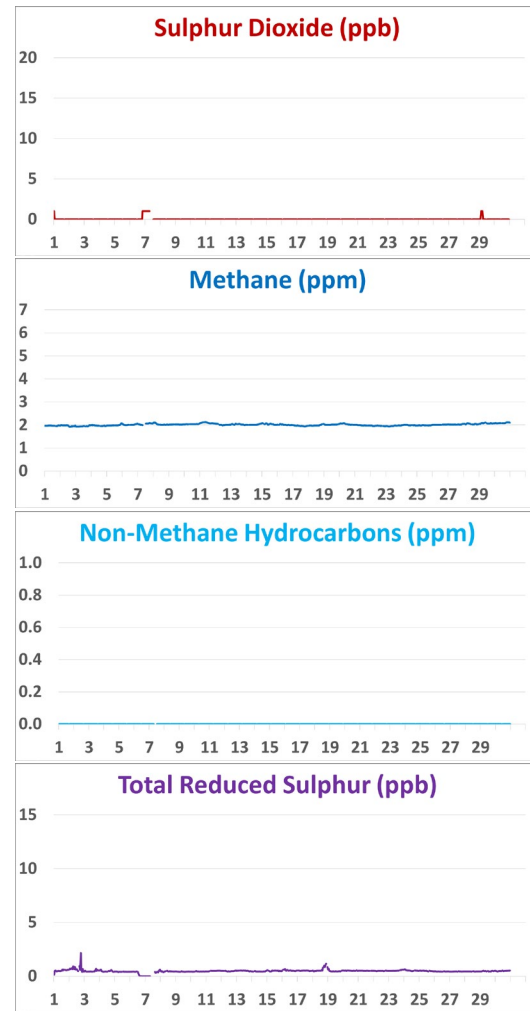
Station 986c

Station 842b

Reno Station

PRC Station (*coming soon*)

AQHI Station – Cadotte Lake



Operational Summary

986c Station:

- Precipitation: Five hundred and six hours of data collected in November were invalidated due to a sensor malfunction, which was caused by low ambient air temperature. The sensor operational uptime was 29.7%.

842b Station:

- No operational issues to report.

Reno Station:

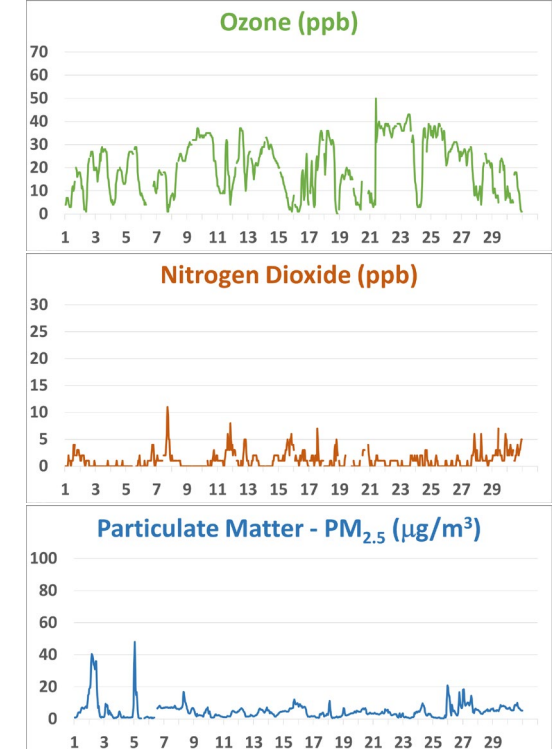
- No operational issues to report.

AQHI Station – Cadotte Lake:

- TRS: A repeat calibration was completed on November 19 to correct the daily span drift issue. Six hours of downtime were recorded due to this event. The analyzer malfunctioned and was manually reset on November 27. A zero-span check was initiated to ensure the analyzer's functionality. The check results were within the acceptable limit. Twelve hours of data were invalidated due to this event.
- NOX/NO/NO2: A repeat calibration was completed on November 19 to correct the daily span drift issue. Nine hours of downtime were recorded due to this event. The analyzer was put offline on November 20 from hour 09 to 11 and from hour 16 to 18 in order to obtain reference concentrations for ozone analyzer calibration. Six hours of downtime were recorded due to this event.
- O3: Maintenance, including cleaning the sinter filter and recalibrating the flow sensor, were performed on November 6. One hour of downtime was recorded due to this maintenance event. A multi-point calibration was attempted on November 20. However, the calibration failed as incorrect reference concentration points were used. A total of eleven hours of downtime was recorded due to this event.
- PM2.5: The PM2.5 instrument passed the monthly audit on November 5, but the instrument had a flow slope warning after the flow adjustment was made. A successful shut-down audit was performed on November 6 in order to perform troubleshooting. Four hours of downtime were recorded due to the maintenance activities that were performed on November 6.
- WS/WD: The wind system was frozen due to freezing rain/snow between November 18 hour 17 and November 20 hour 15. Forty-seven hours of data were discarded due to this issue.

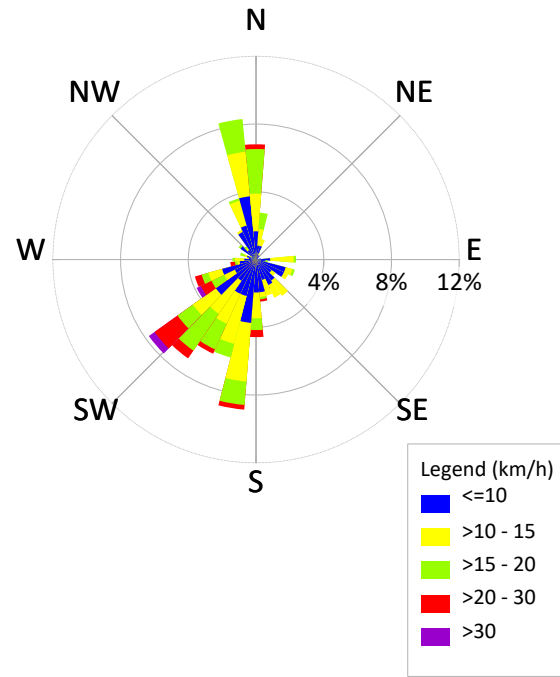
VOC Canister Sampling Program:

- Two NMHC canisters were collected: one was collected at the Reno site on November 5 at 22:15, at concentration of 0.34ppm, and the other canister was collected at the 842b site on November 15 at 14:15, at concentration of 0.36ppm.

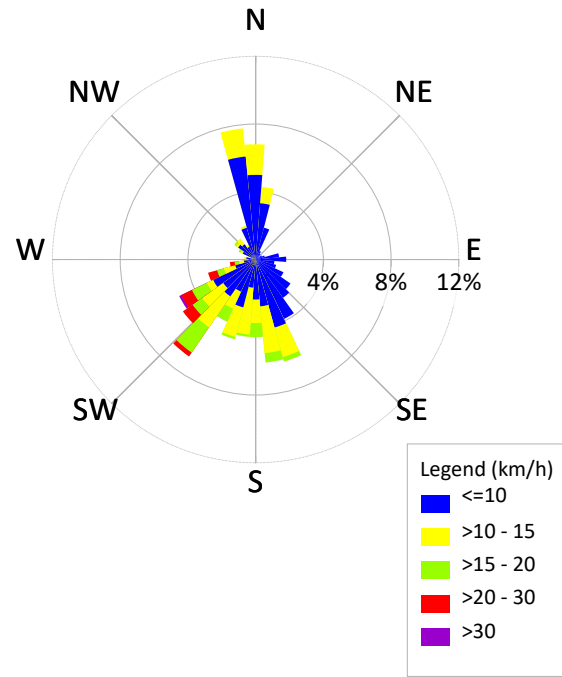


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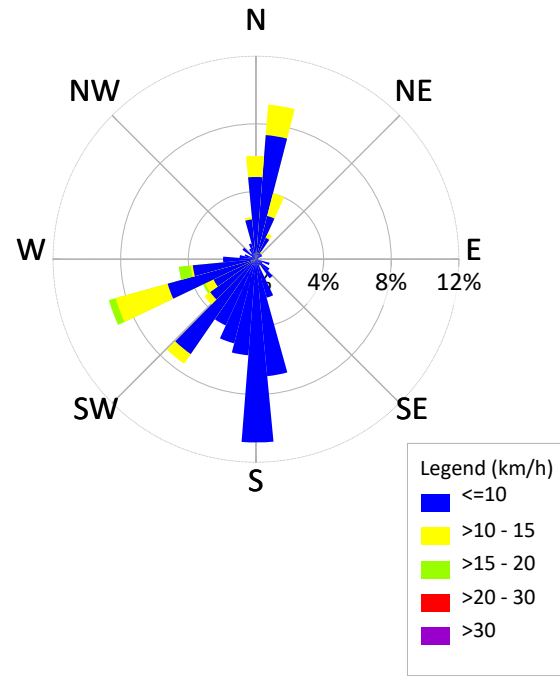
Station 986c



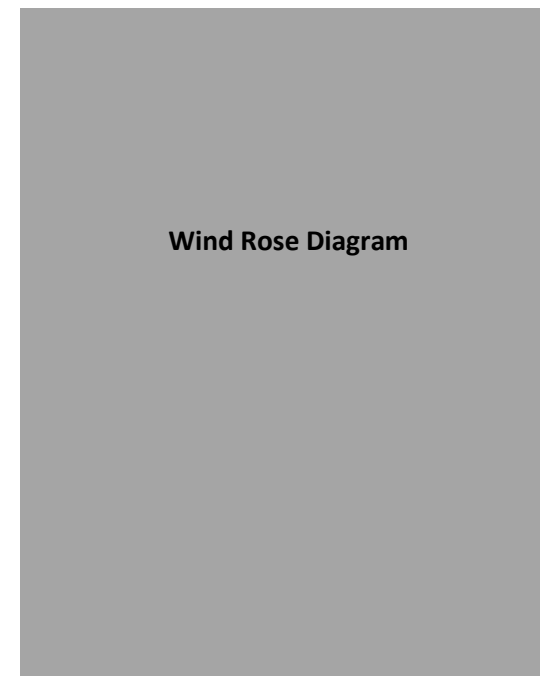
Station 842b



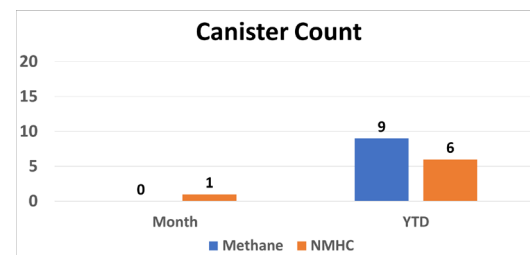
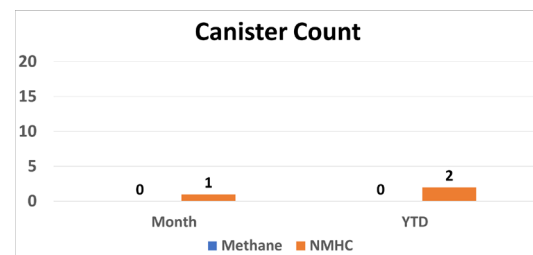
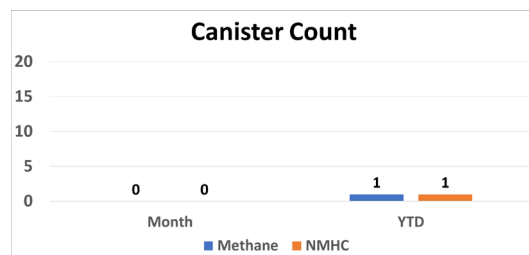
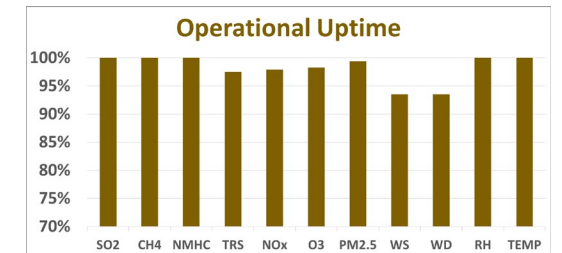
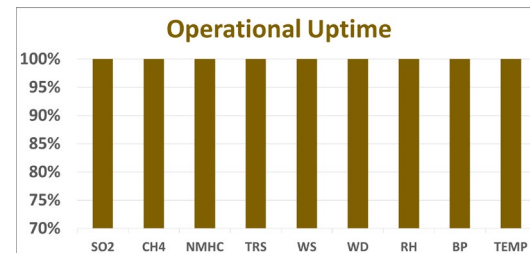
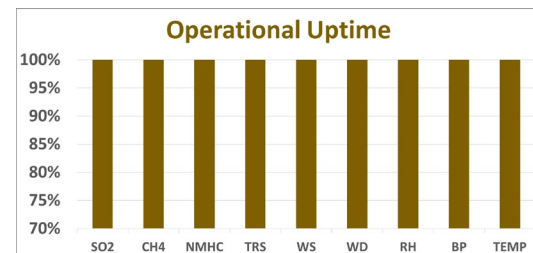
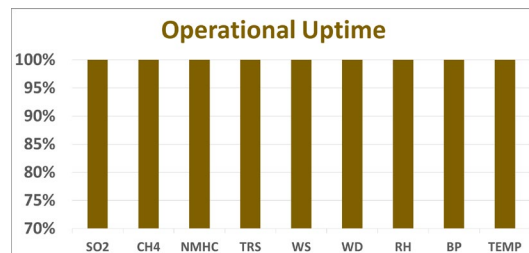
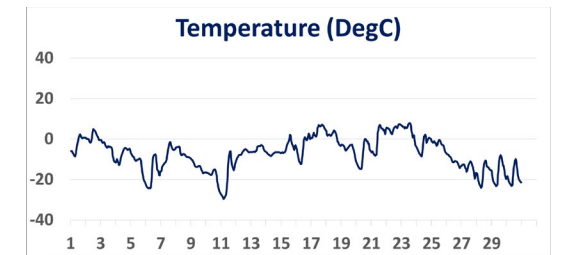
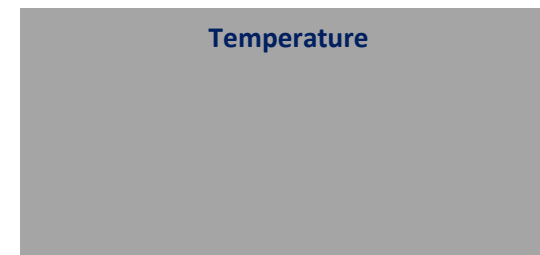
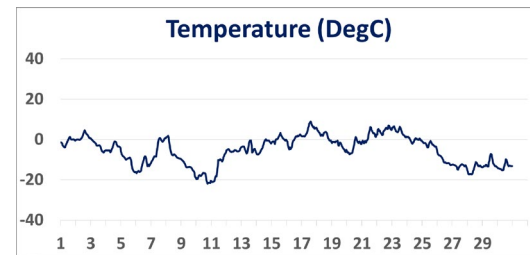
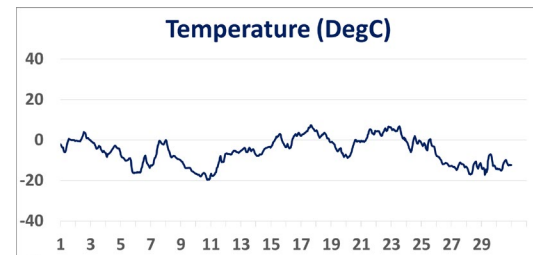
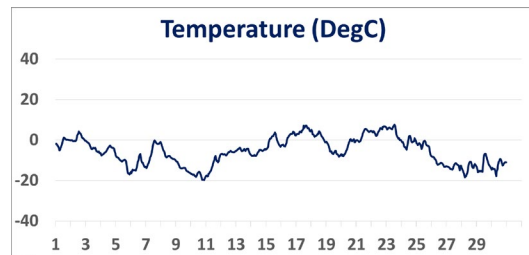
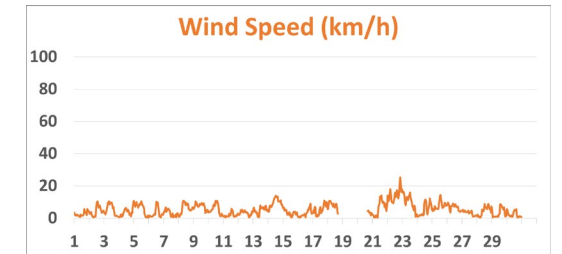
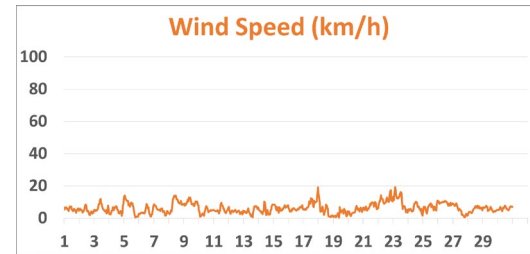
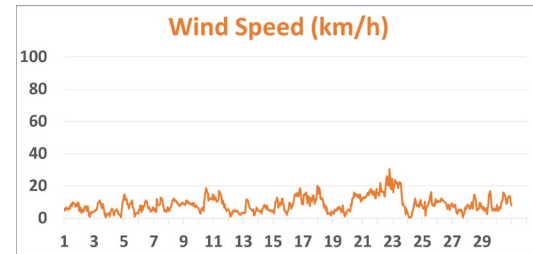
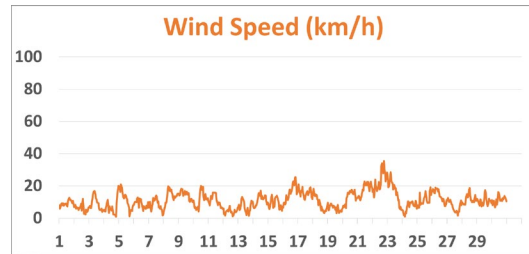
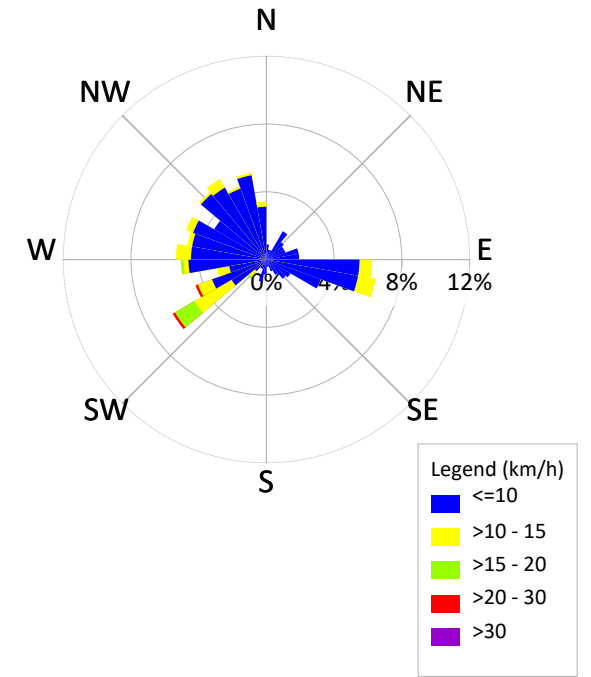
Reno Station



PRC Station (coming soon)



AQHI Station – Cadotte Lake



Targets, Guidelines, and Objectives
 Sulphur Dioxide 1h AAAQO = 172 ppb
 Ozone 1h AAAQO = 76 ppb
 Particulate Matter AAAQG = 80 µg/m³
 Nitrogen Dioxide AAAQO = 159 ppb
 Operational Uptime Requirement = 90%
 AQHI Risk Value = 1-3 Low, 4-6 Moderate, 7-9 High, 10+ Very High

