

December 2024: Active Monitoring Program

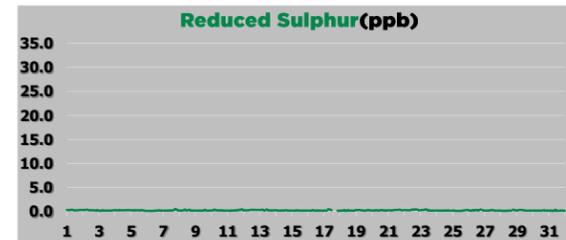
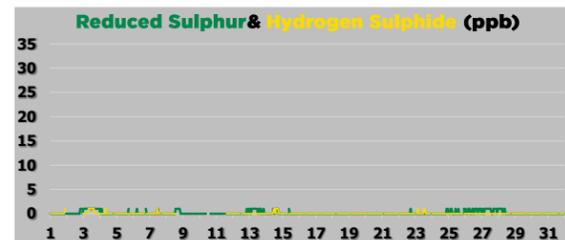
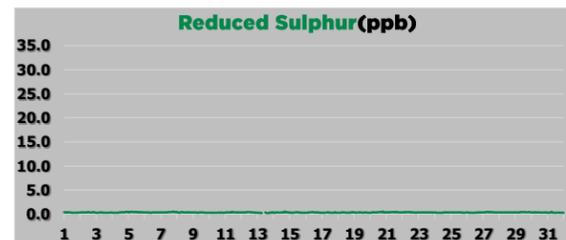
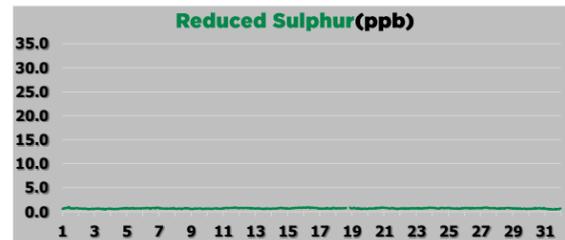
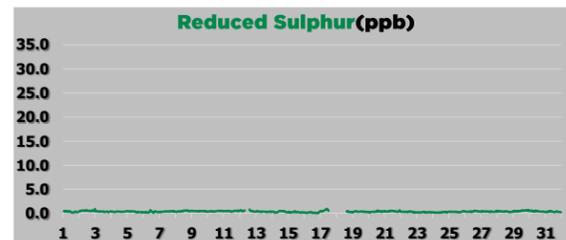
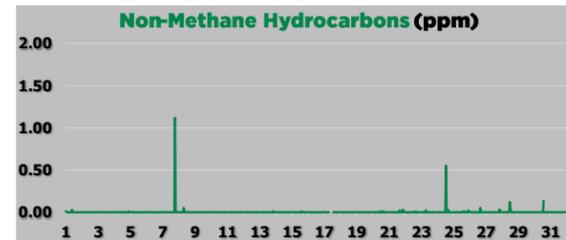
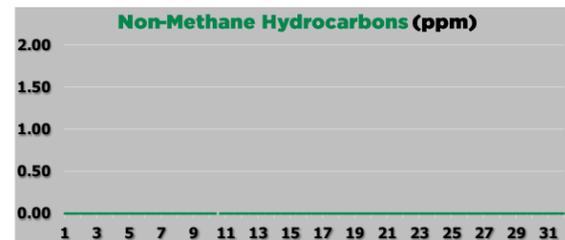
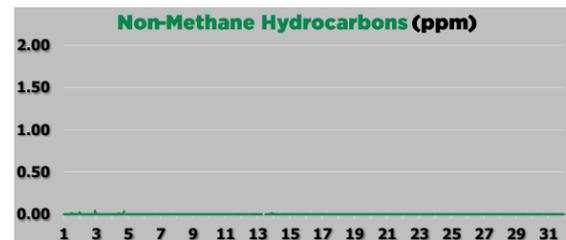
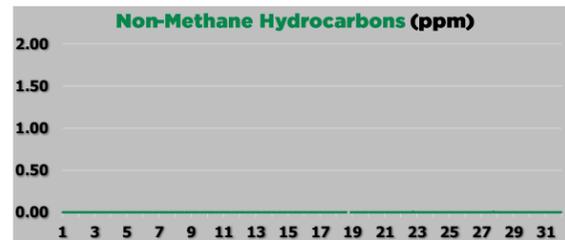
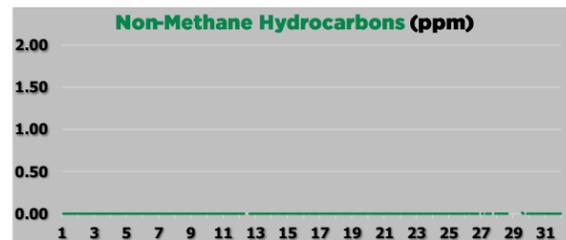
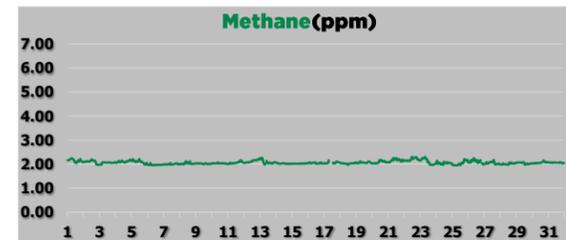
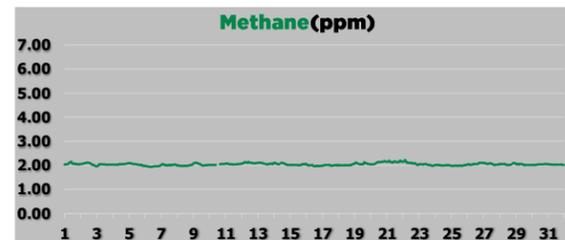
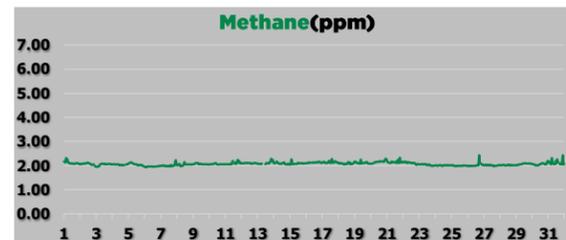
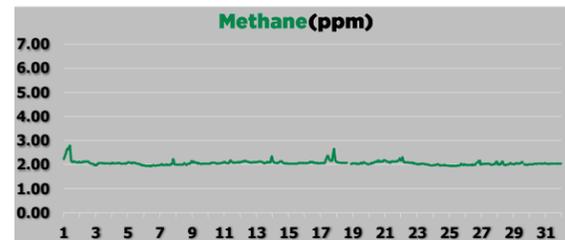
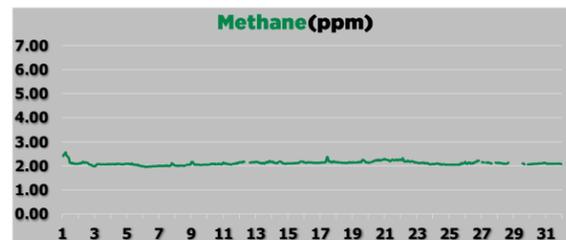
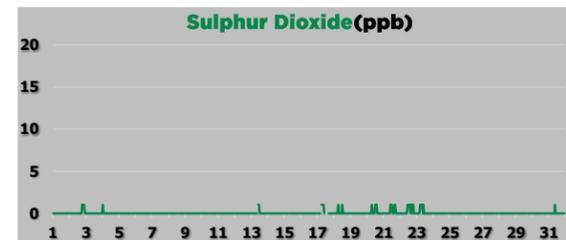
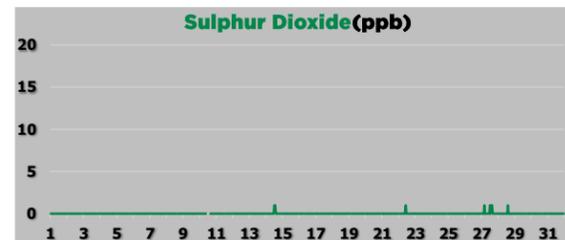
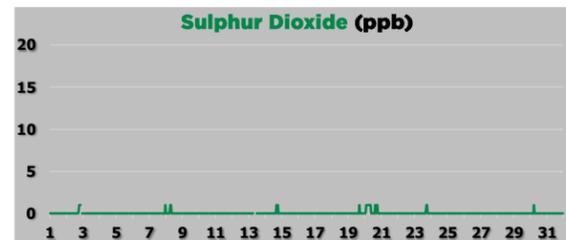
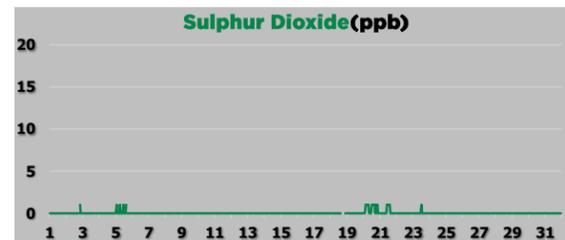
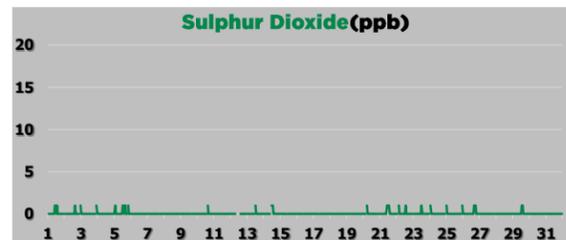
986-C Station

842-B Station

Reno-B Station

PRC Station

AQHI Station - Grimshaw



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

986-C Station

- THC/CH₄/NMHC: Due to injection issues, BV's Thermo 55i analyzer, s/n: 1022143392, was removed after a successful shut-down calibration on December 28. PRAMP's Thermo 55i analyzer, s/n: 1191032505, was installed afterwards. The analyzer was allowed to stabilize overnight. A successful installation calibration was completed on December 29. Twenty hours of downtime were recorded due to this event.

842-B Station

- No major operational issues this month.

Reno-B Station

- No major operational issues this month.

PRC Station

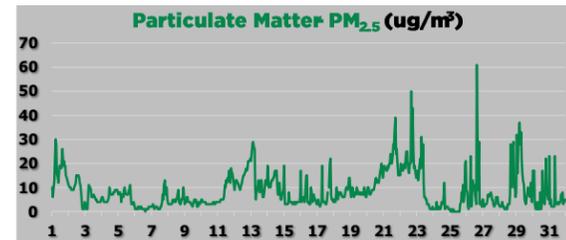
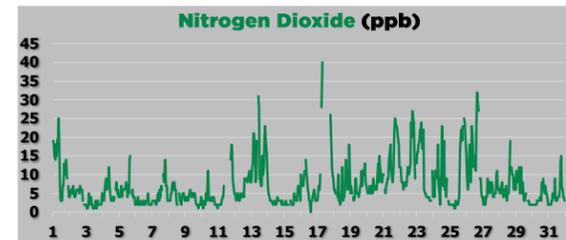
- H₂S:
 - All parameters met the 90% operational uptime requirement, except the PRC station - H₂S analyzer (88.6%). DINCO013545.
 - The analyzer failed the repeat zero-span check on December 2 at hour 14, but it passed the later scheduled zero-span check at hour 21. The drift was likely due to unstable lamp voltages. Data were invalidated back to the last valid zero-span check, which was December 1 at hour 23. Twenty-two hours of downtime were recorded.
 - The analyzer failed the daily span check on December 9 due to unstable lamp voltages. CNRL's Thermo 450i analyzer, s/n: 1308857354, was removed for repair after a successful shut-down calibration on December 10. BV's Teledyne T101 analyzer, s/n: 1014, was installed afterwards. The analyzer was allowed to stabilize overnight. A successful installation calibration was completed on December 11. Data were invalidated back to the last valid calibration check point, which was December 8. Sixty-four hours of downtime were recorded due to this event.

AQHI Station - Grimshaw

- No major operational issues this month.

NMHCs Canister Sampling Program

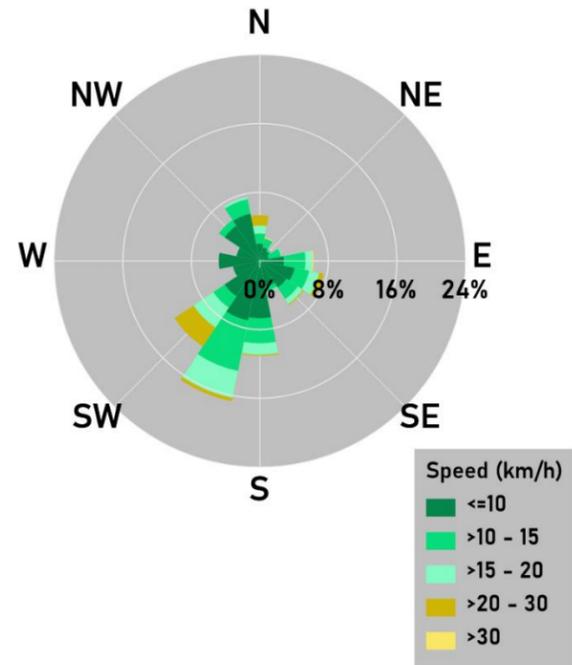
- No valid NMHC canister events were recorded this month. The canister event that was triggered on December 4 at 18:00 at the Reno-B station was not valid as the system was triggered during a period when the HC analyzer was malfunctioning.



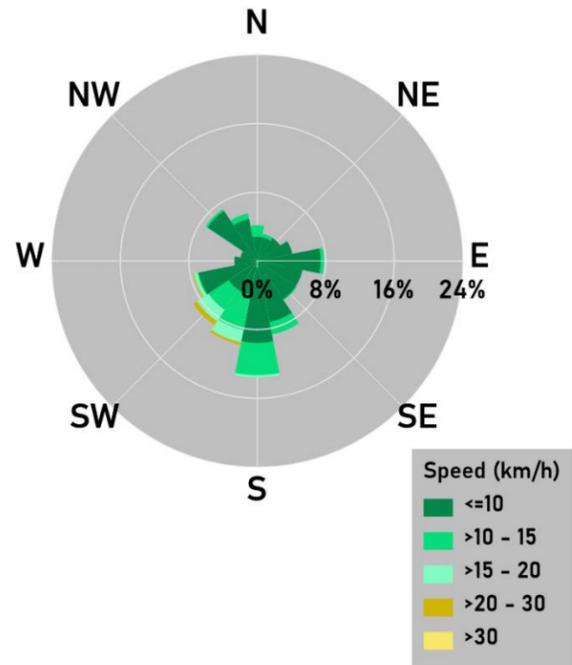
December 2024: Active Monitoring Program



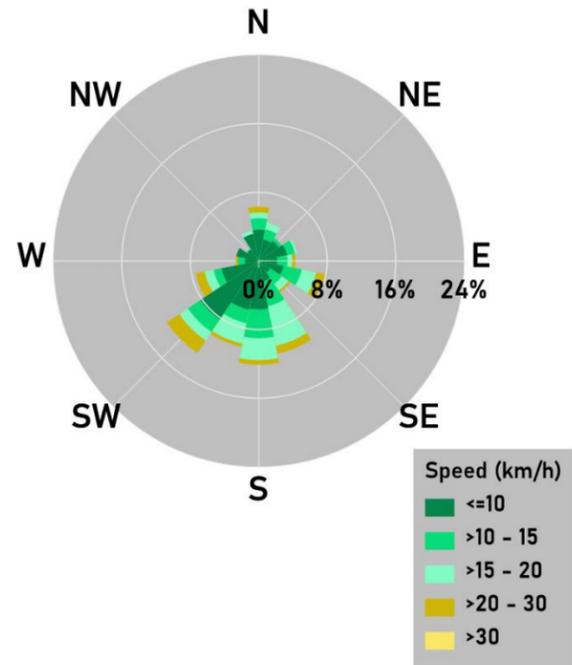
986-C Station



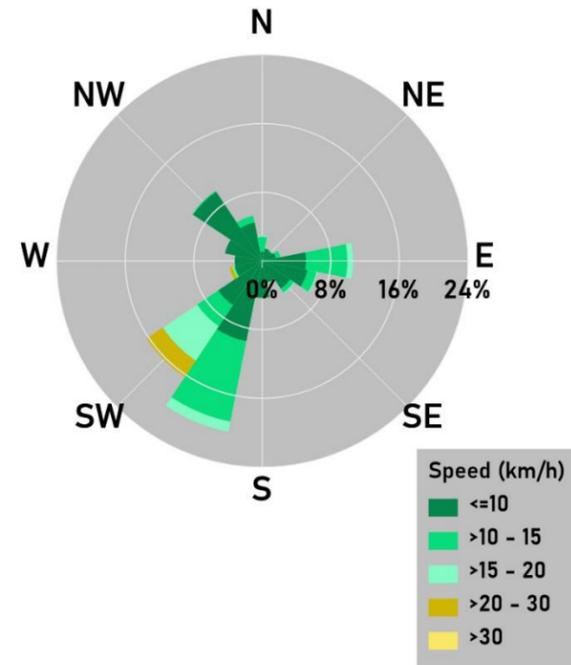
842-B Station



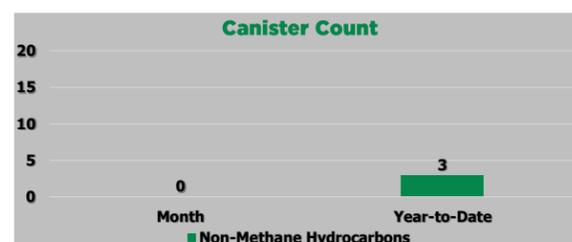
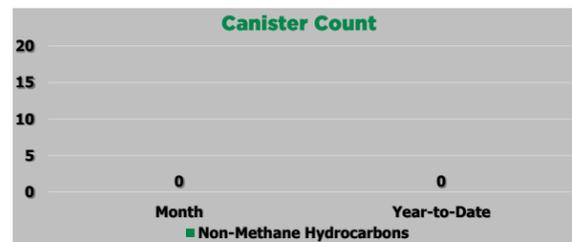
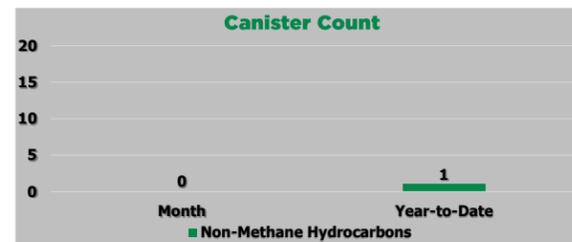
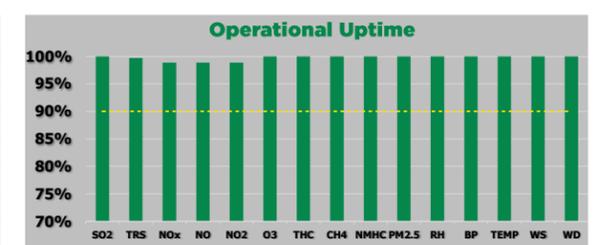
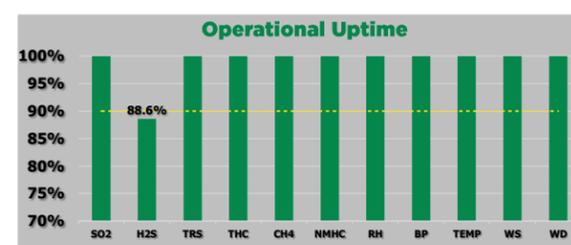
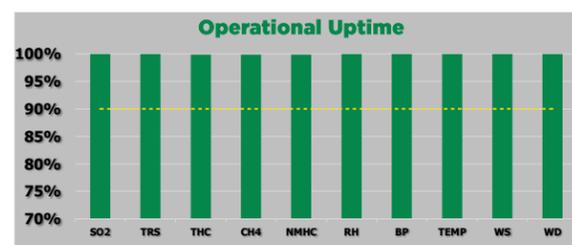
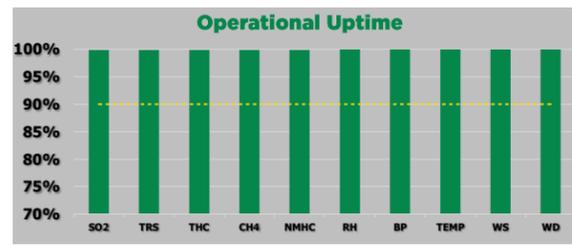
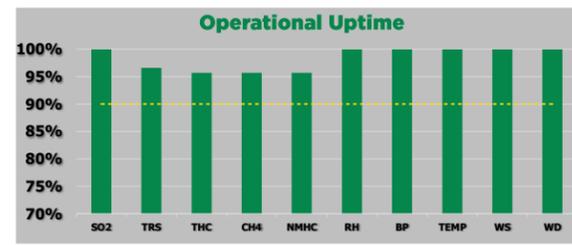
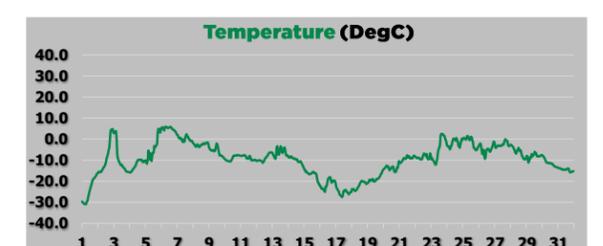
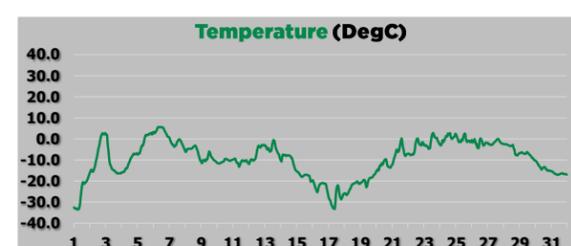
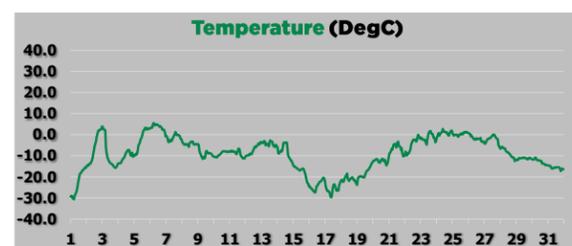
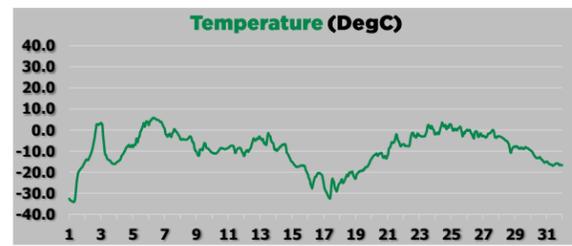
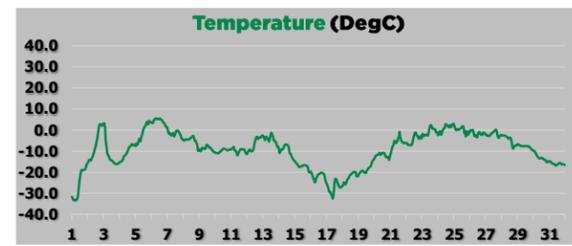
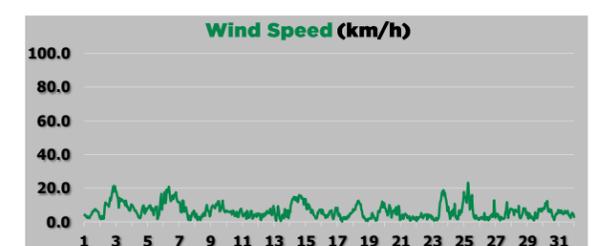
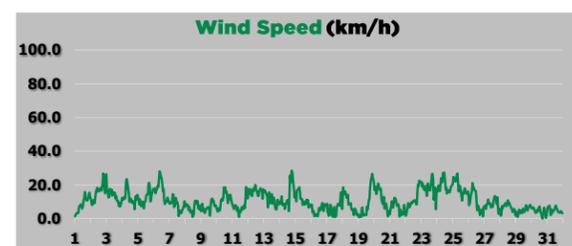
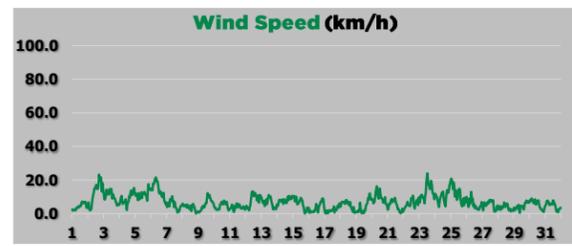
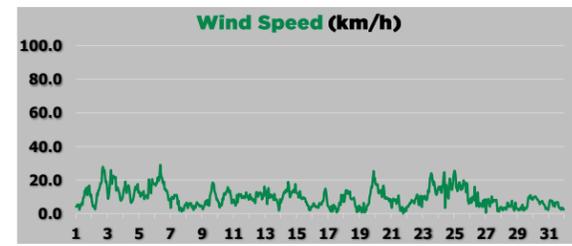
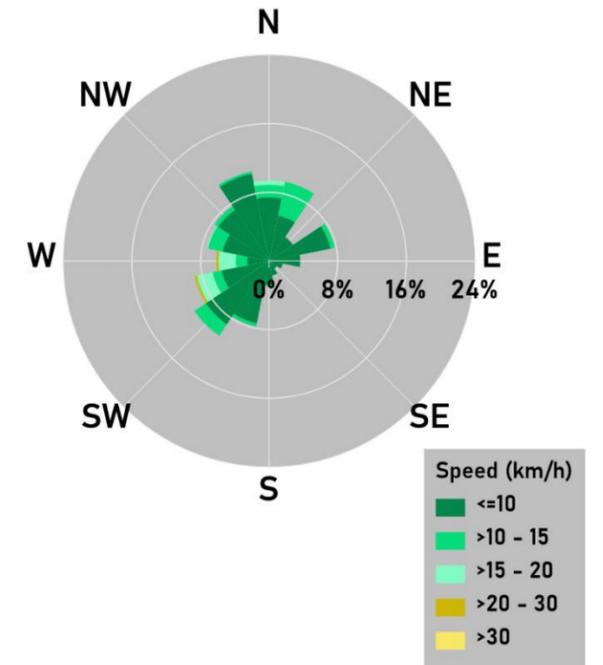
Reno-B Station



PRC Station



AQHI Station - Grimshaw



Targets, Guidelines, and Objectives
 Sulphur Dioxide 1h AAAQO = 172 ppb
 Ozone 1h AAAQO = 76 ppb
 Particulate Matter (PM_{2.5}) 1h AAAQO = 80 ug/m³
 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

