

August 2023: Active Monitoring Program

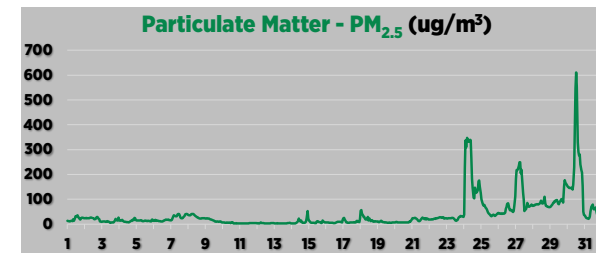
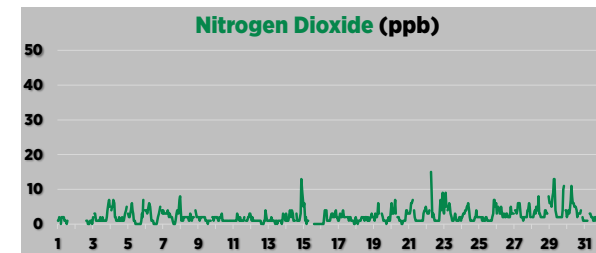
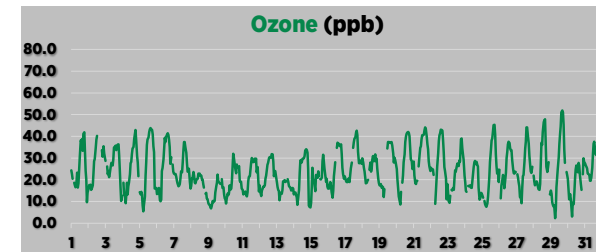
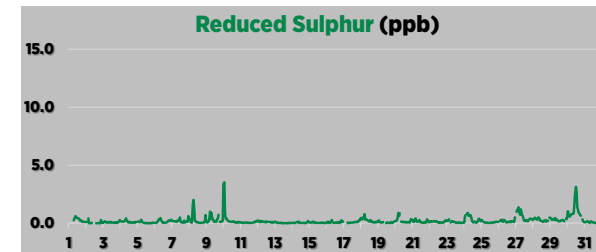
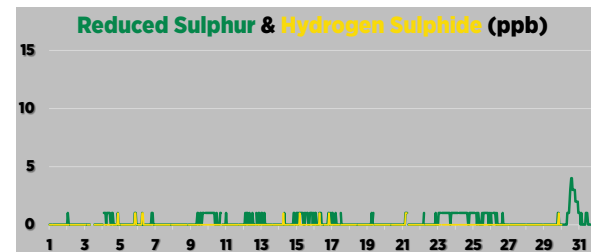
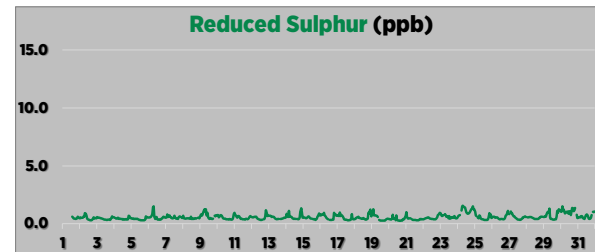
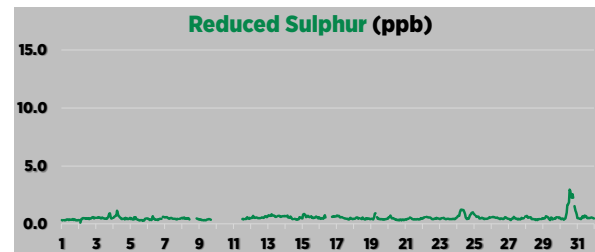
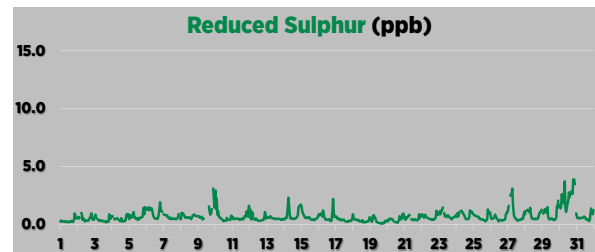
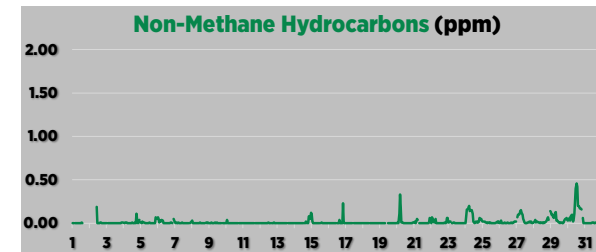
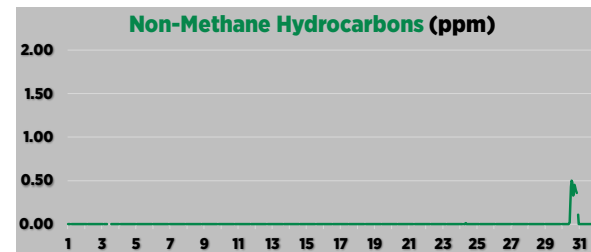
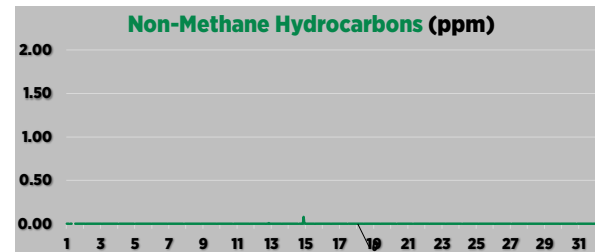
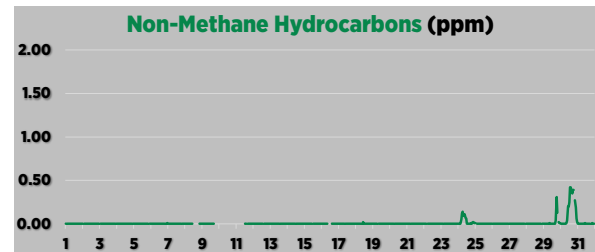
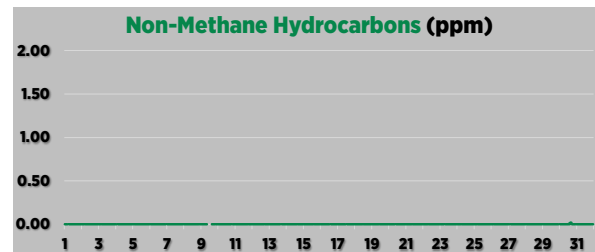
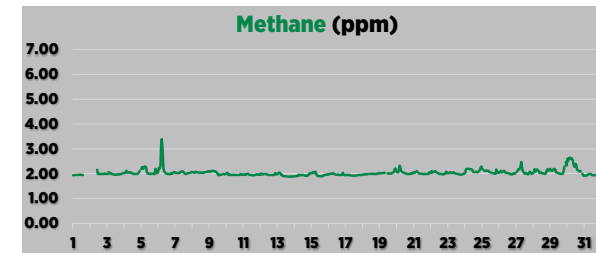
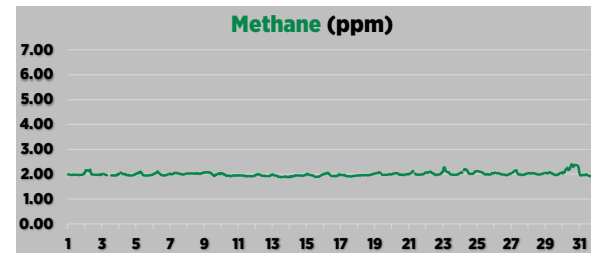
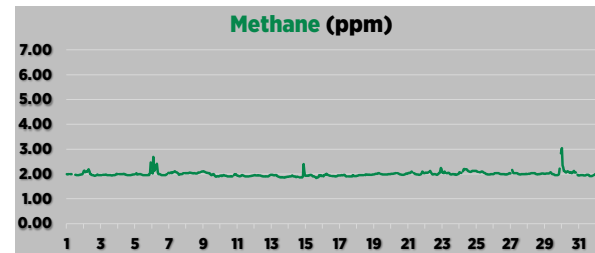
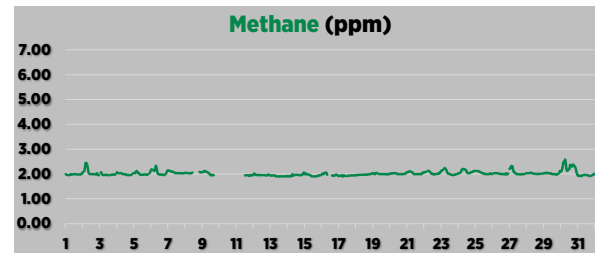
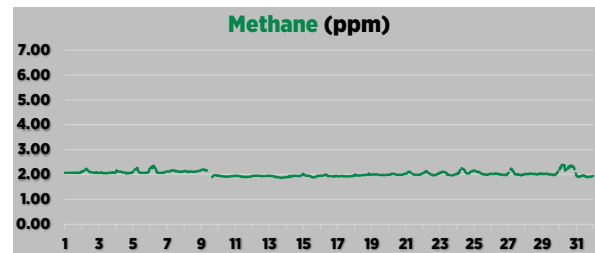
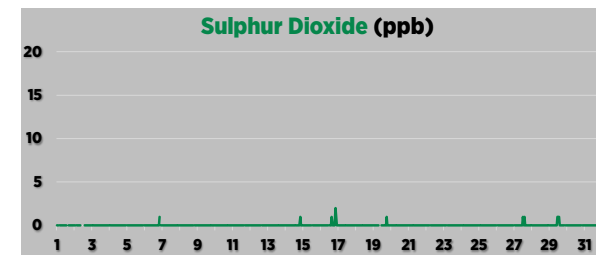
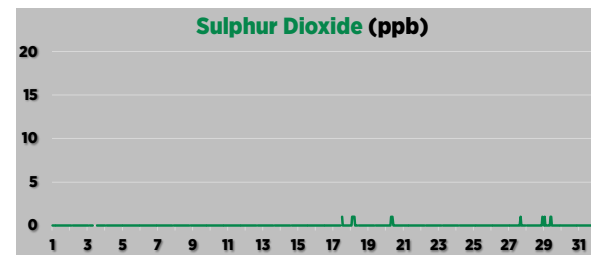
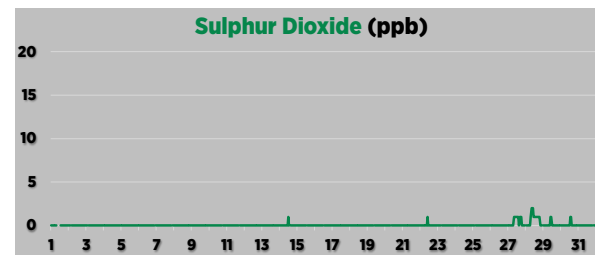
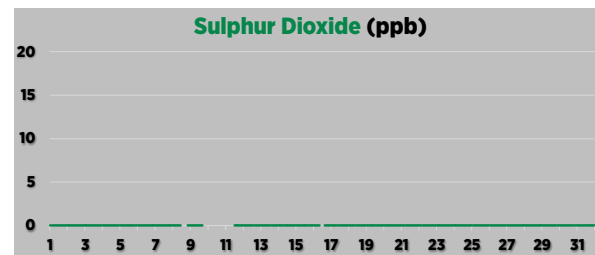
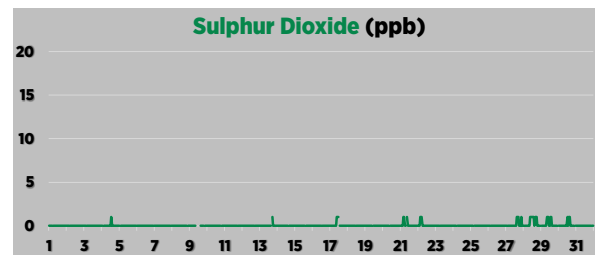
986-C Station

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

- 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 BP (61.7%).
- Datalogger:** Due to a major hardware failure, PRAMP's Envista Ultimate datalogger, s/n: 510, was replaced with the BV's datalogger, s/n: AC140000208, on August 10. The system was back online on August 11. Forty-one hours of downtime were recorded.
- BP:** Due to a configuration error dating back to the urgent logger swap on August 10, two hundred thirty-five hours of data collected between August 11 hour 12 and August 21 hour 6 were invalidated.

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.

AQHI Station – Grimshaw

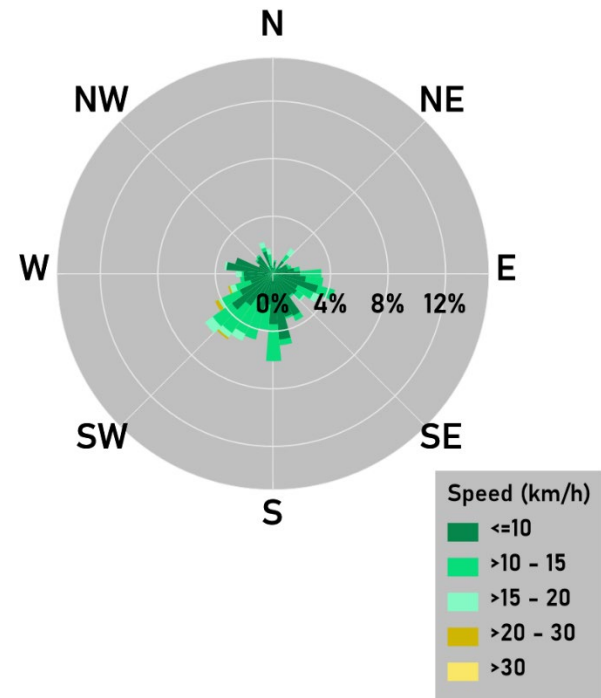
- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAGs) where applicable, except PM2.5. Ninety-two 1-hour PM2.5 exceedances and ten 24-hour PM2.5 exceedances were recorded. Both nearby and distant wildfires contributed to intense local wildfire smoke conditions.
- NO2/NOx/NO:** Following a successful shut-down calibration on August 1, PRAMP's Teledyne T200 analyzer, s/n: 837, was removed for maintenance. The BV's API 200E analyzer, s/n: 594, was installed afterwards. The analyzer was allowed time to stabilize overnight. A successful installation calibration was completed on August 2.

NMHCs Canister Sampling Program

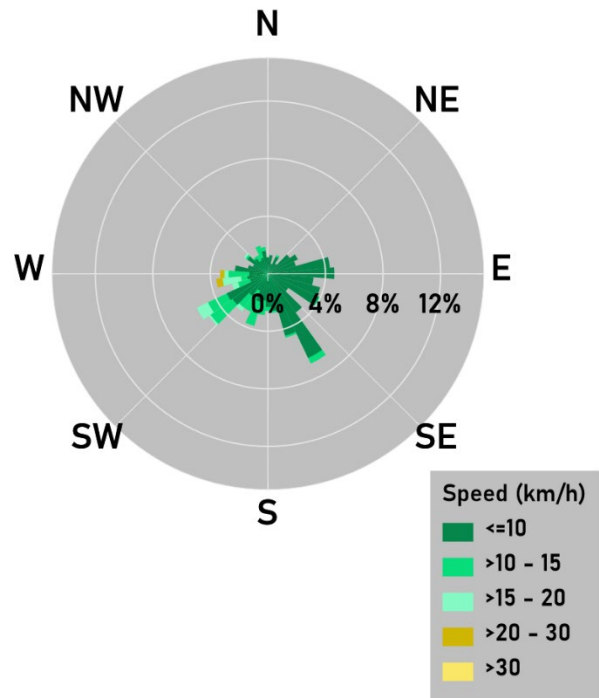
- The canister system at the 842-B station was triggered on August 29 at 18:05, at a concentration of 1.1 ppm, by widespread forest fire smoke. However, the sample was not collected due to a configuration error dating back to the urgent datalogger swap on August 10. The error was corrected, and the system was re-armed on August 31. No canister samples were sent to the laboratory for analysis this month.

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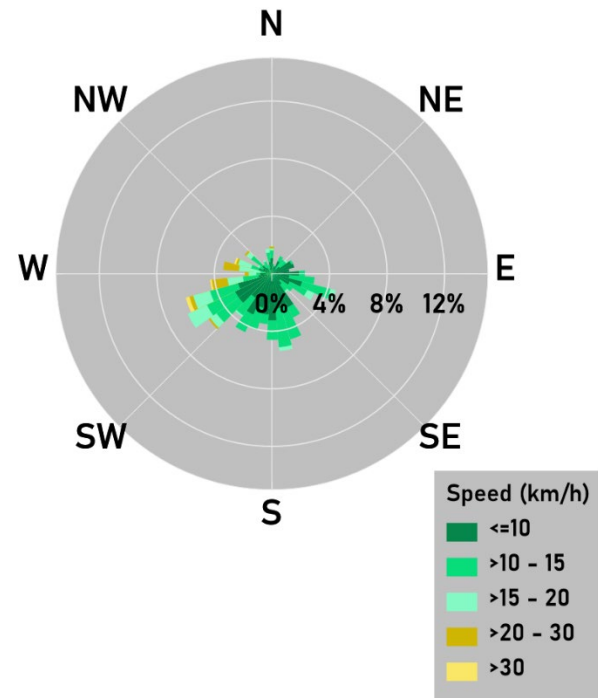
986-C Station



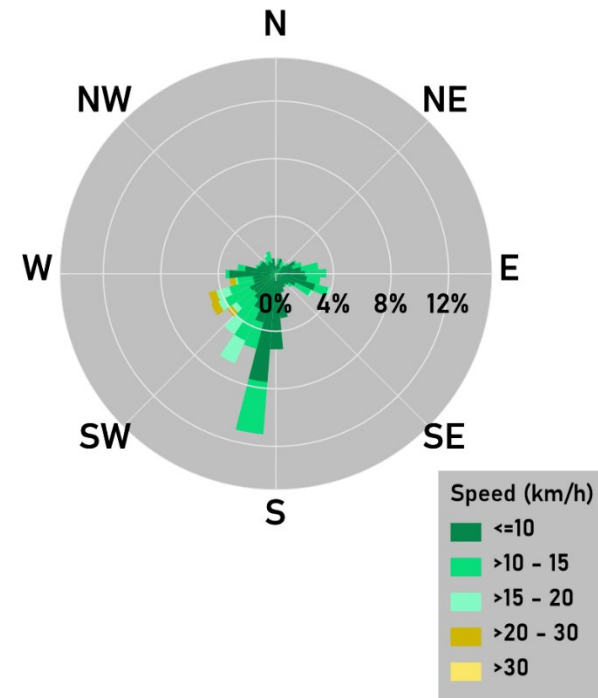
842-B Station



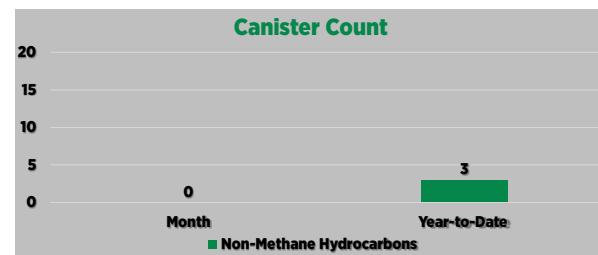
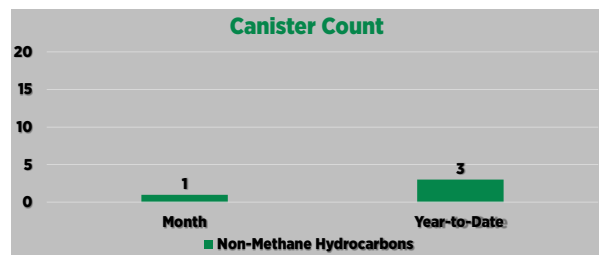
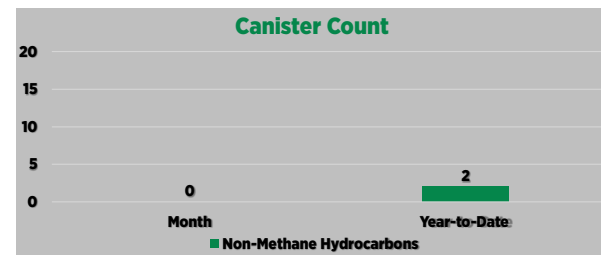
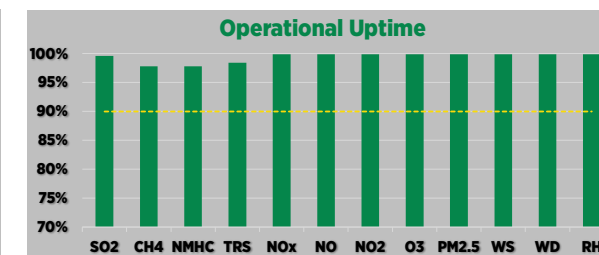
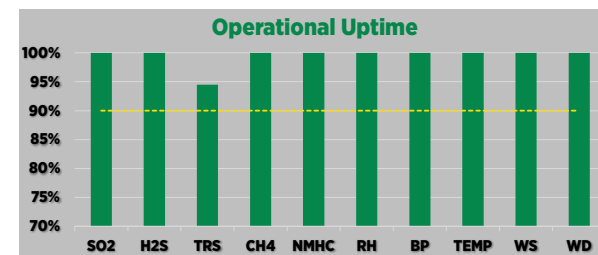
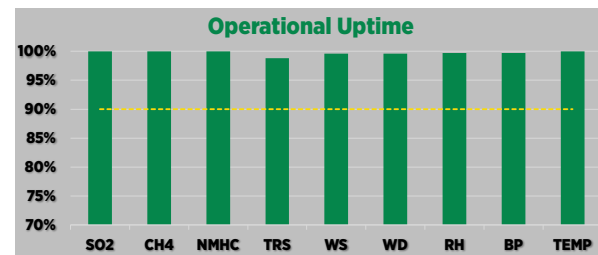
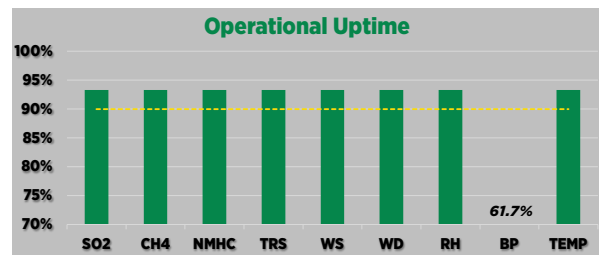
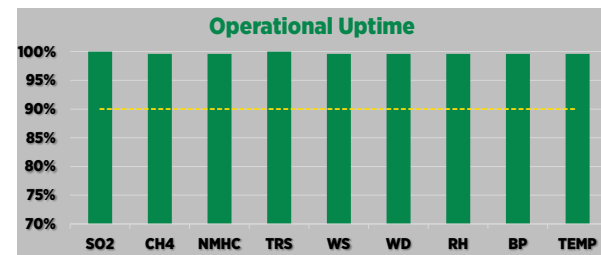
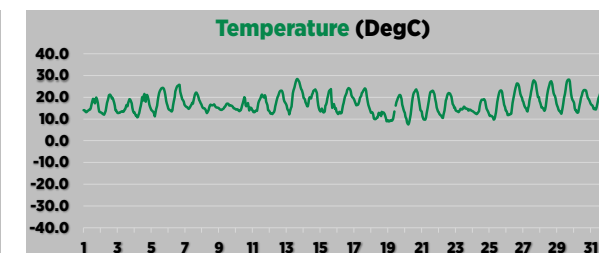
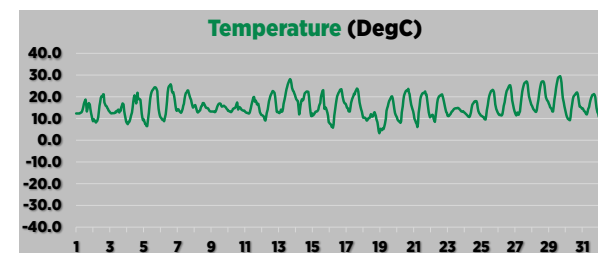
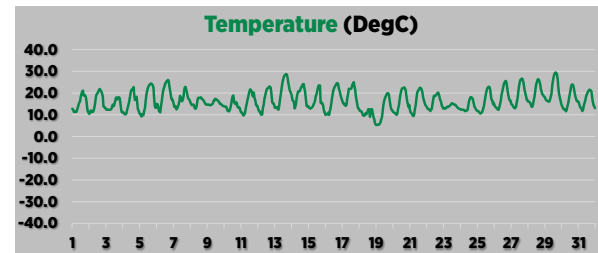
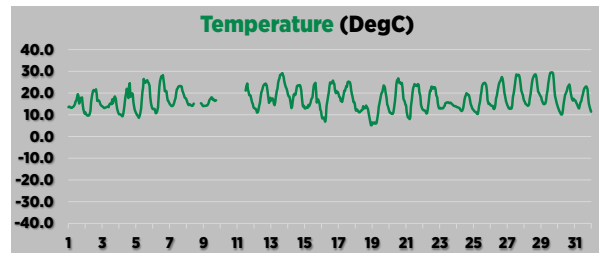
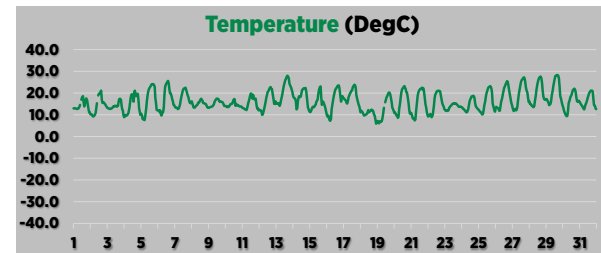
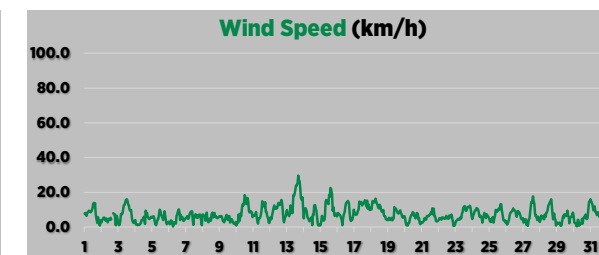
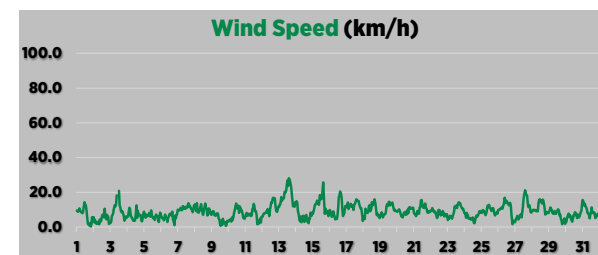
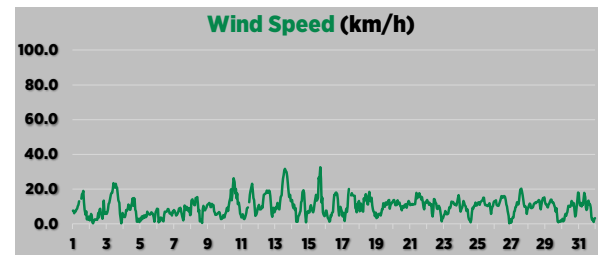
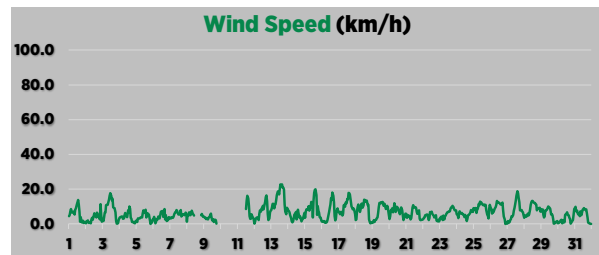
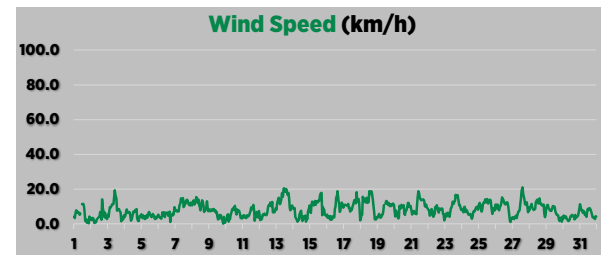
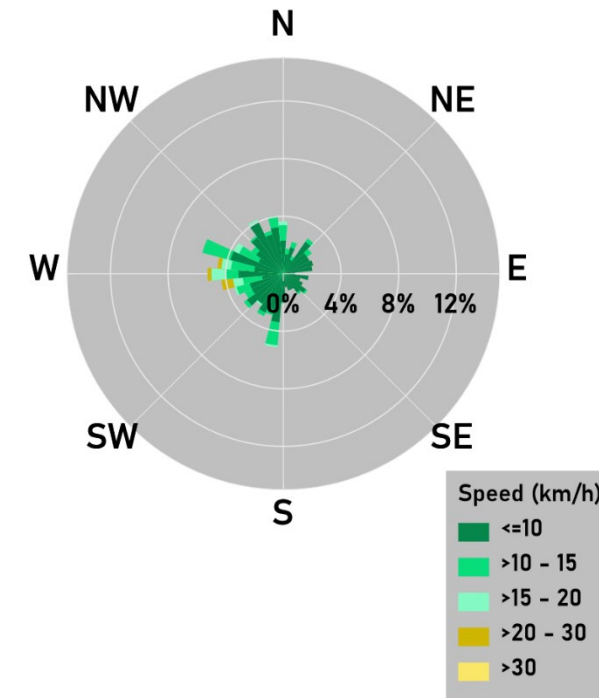
Reno-B Station



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

