

May 2023: Active Monitoring Program

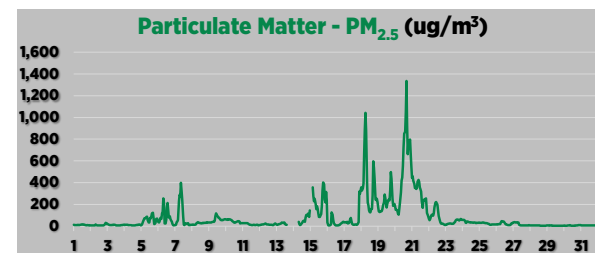
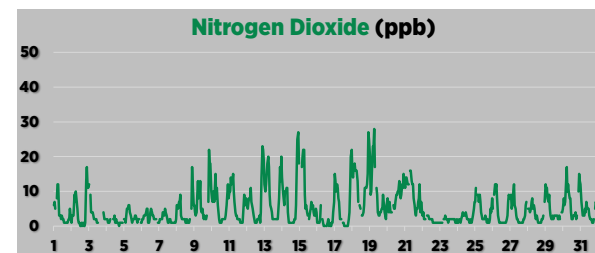
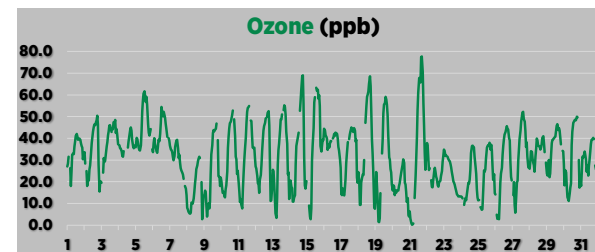
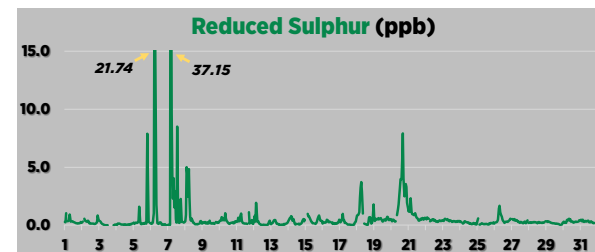
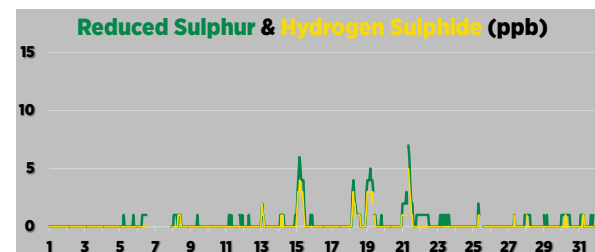
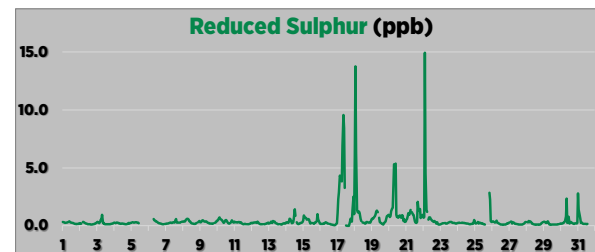
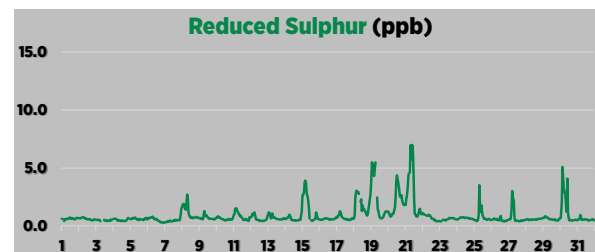
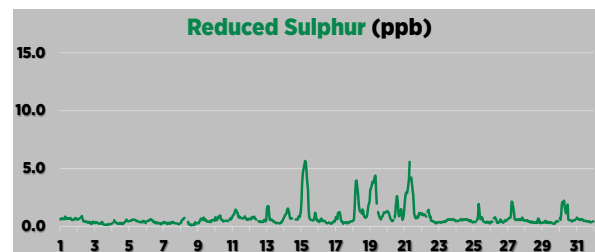
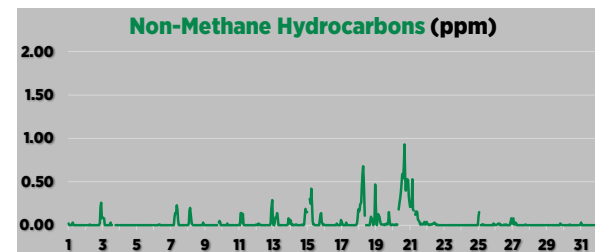
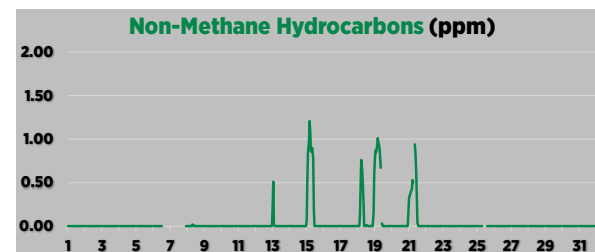
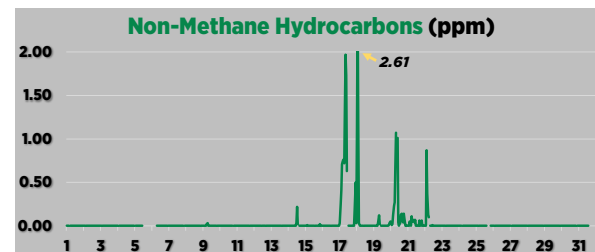
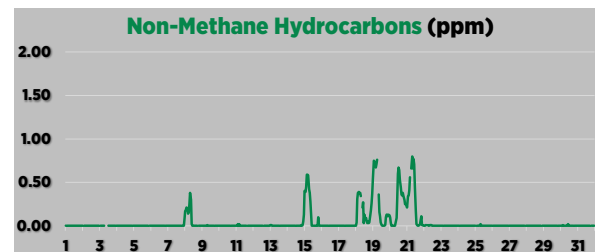
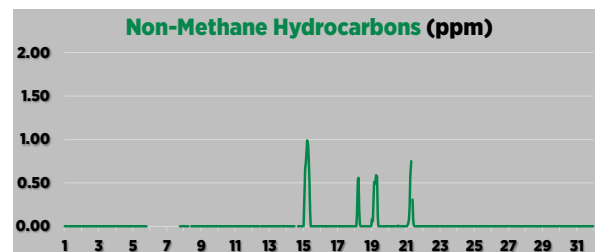
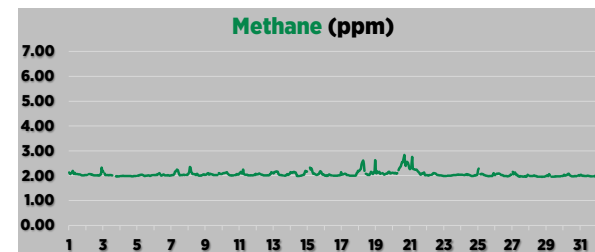
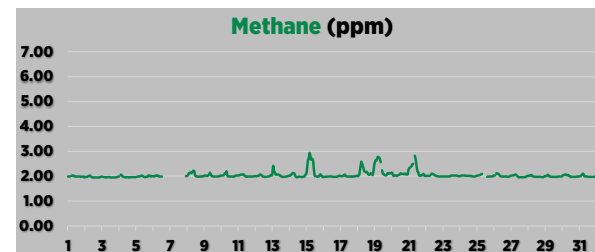
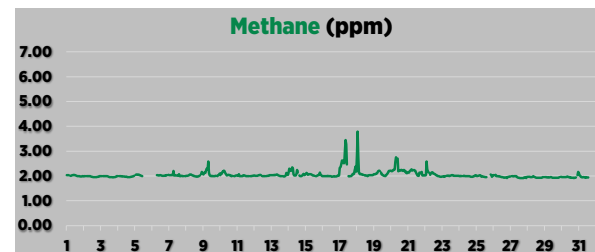
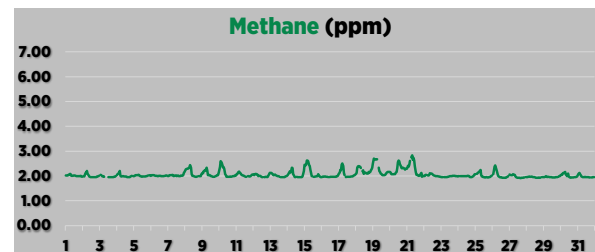
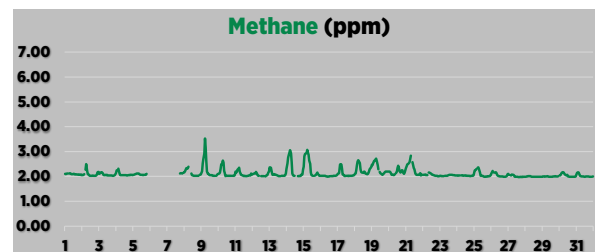
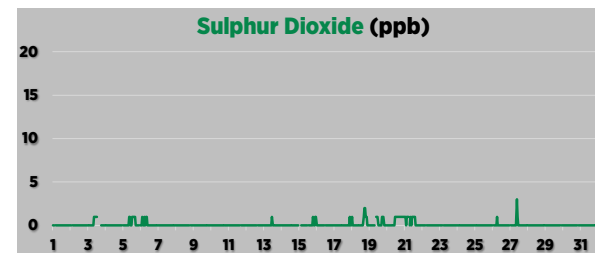
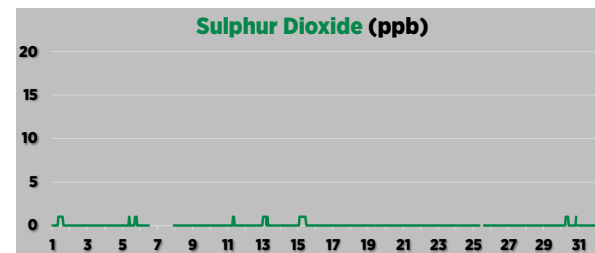
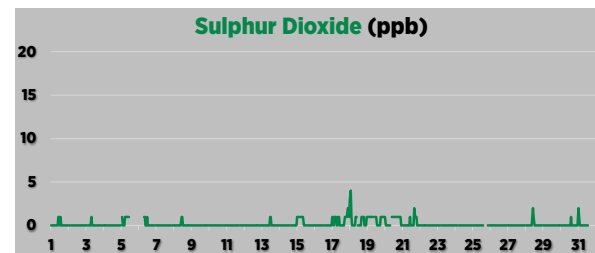
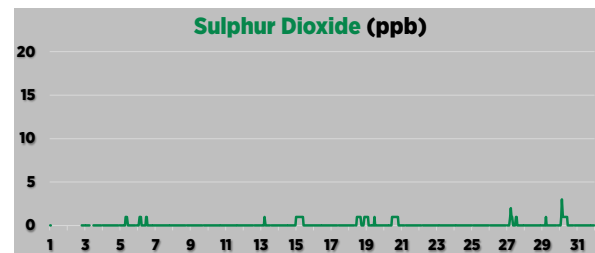
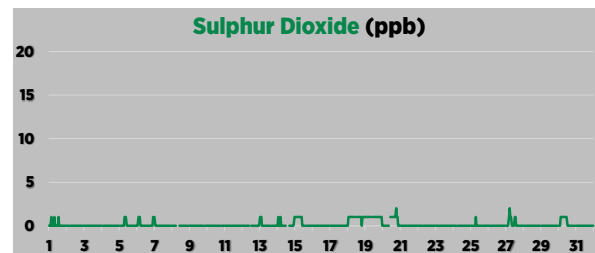
986-C Station

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. **THC/CH4/NMHC:** The PRAMP-owned Teledyne T701H failed on May 5 following a brief power outage. A contractor-supplied API T701 was installed on May 7. Forty-six hours of downtime were recorded due to this event.

842-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.

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

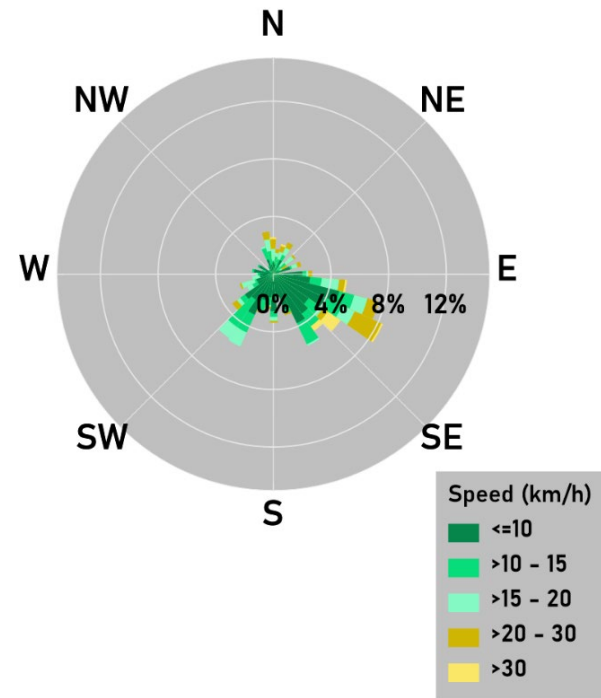
- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAQGs) where applicable, except PM_{2.5} and O₃. One hundred sixty-four 1-hour PM_{2.5} exceedances, fourteen 24-hour PM_{2.5} exceedances and 2 1-hour O₃ exceedances were recorded this month. **TRS:** Following a successful shut-down calibration on May 3, the contractor-supplied Thermo 43i-TLE analyzer, was removed and the PRAMP-owned Teledyne T100U analyzer was installed.

NMHCs Canister Sampling Program

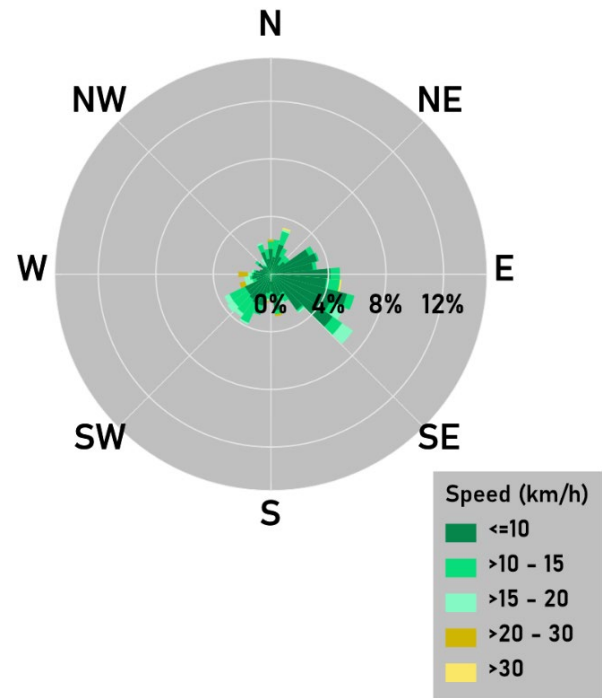
- One canister event was recorded at the 842-B station at 06:35 on May 8, at concentration of 0.30ppm. The canister sampling program was temporarily paused between May 8-30 due to wildfire smoke.

May 2023: Active Monitoring Program

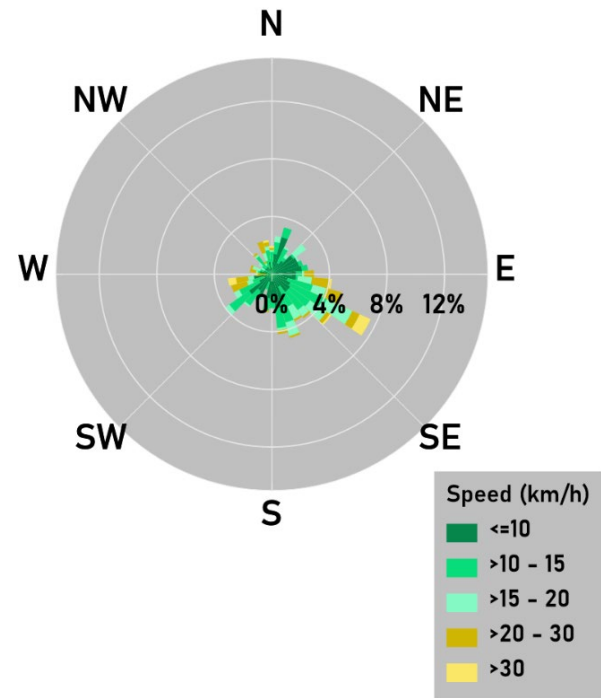
986-C Station



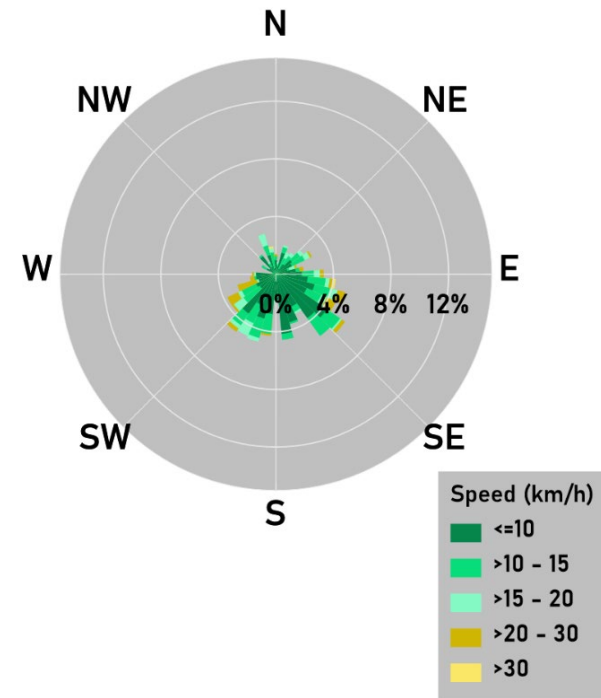
842-B Station



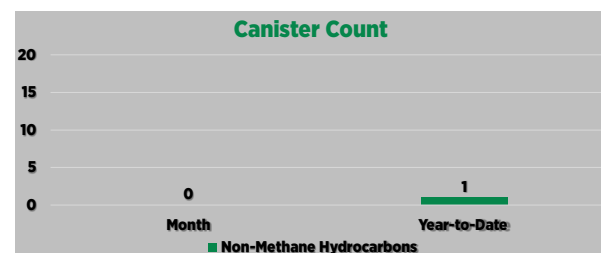
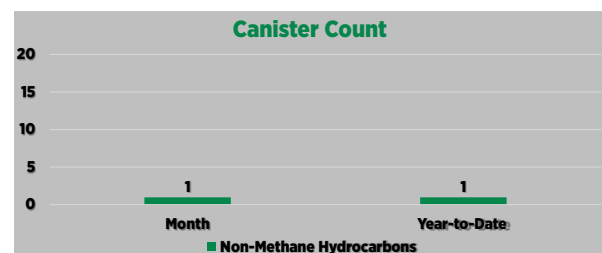
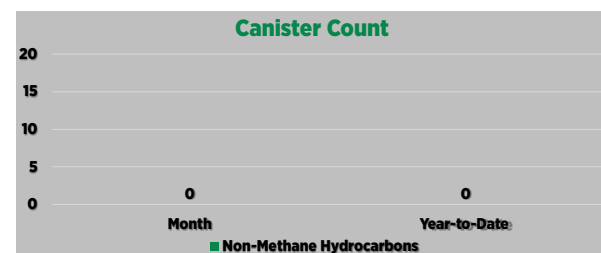
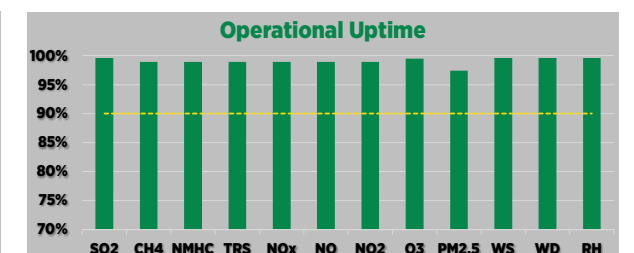
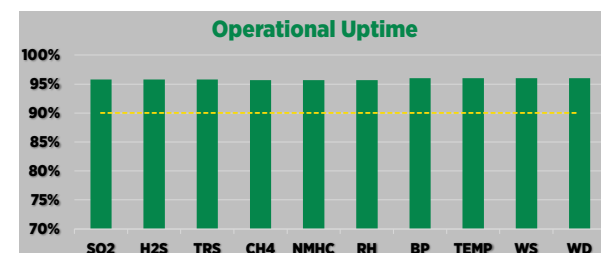
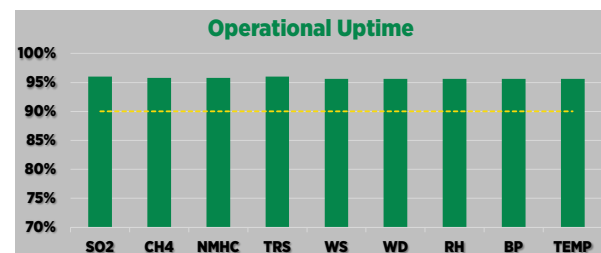
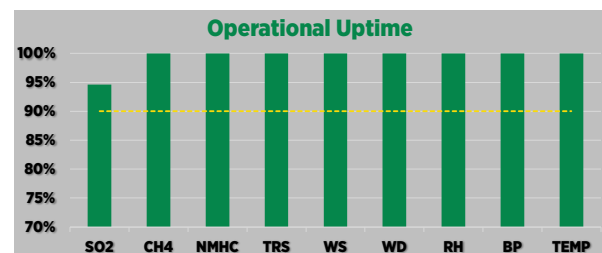
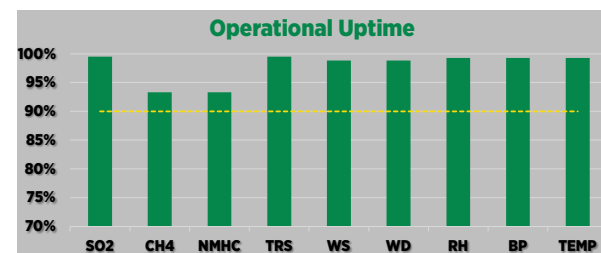
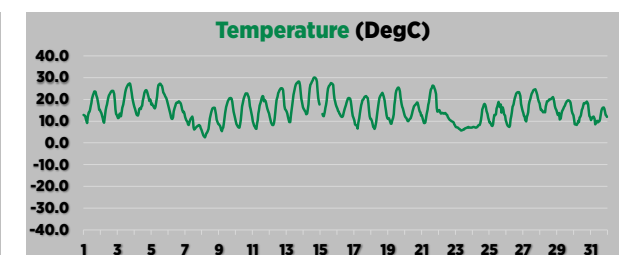
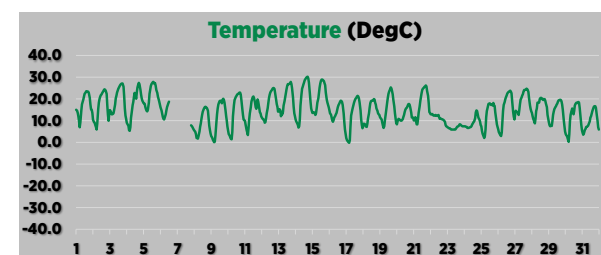
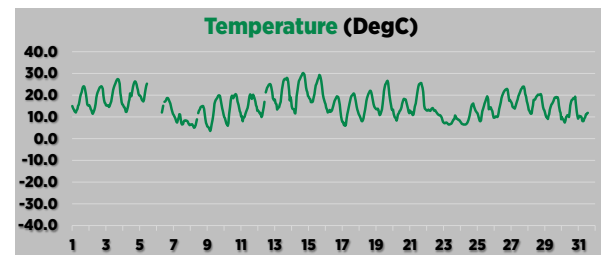
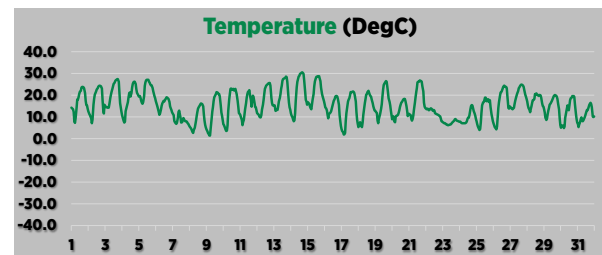
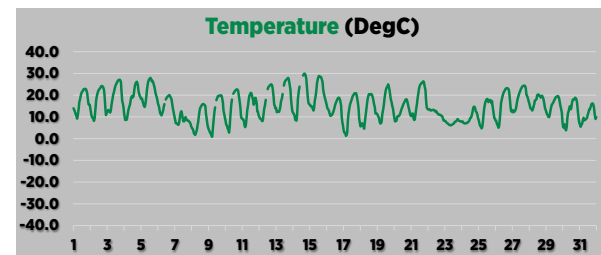
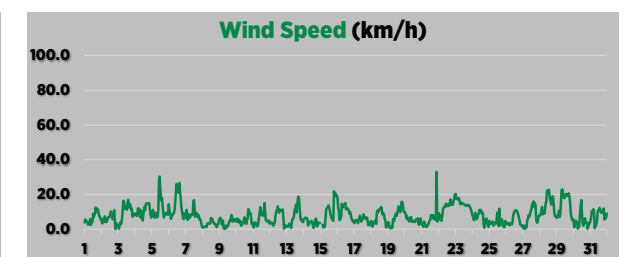
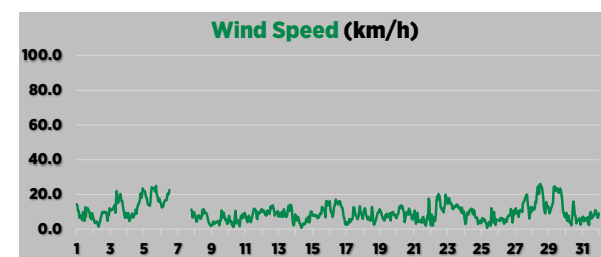
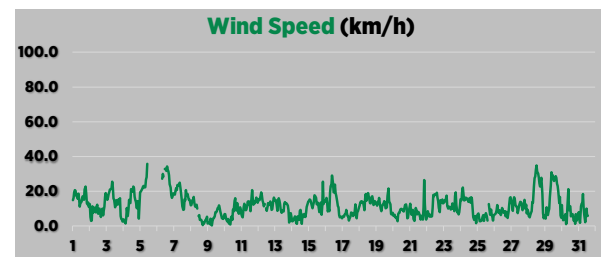
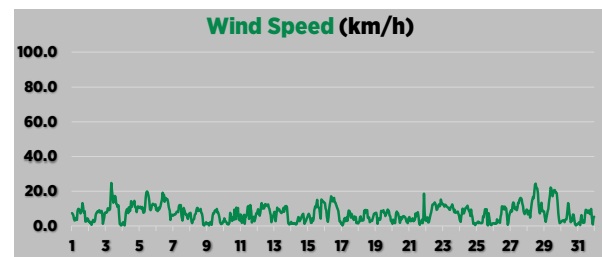
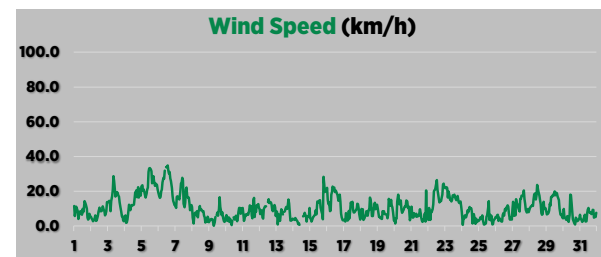
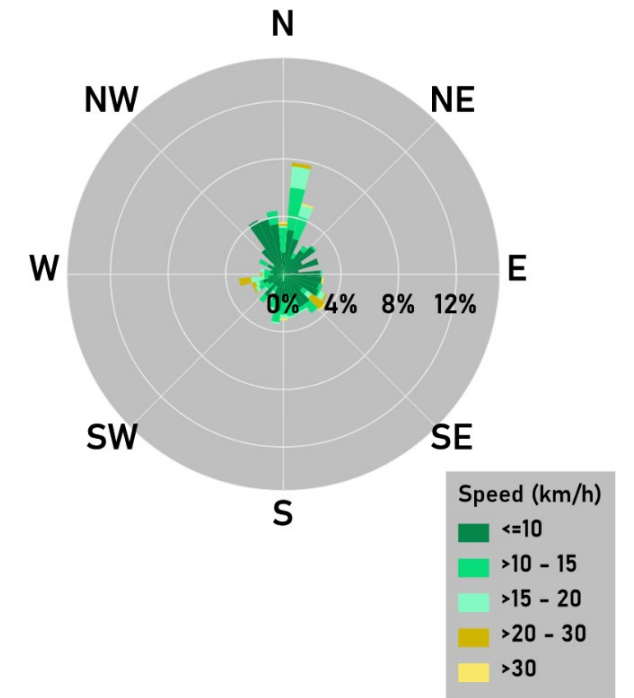
Reno-B Station



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

