

# September 2022: Active Monitoring Program

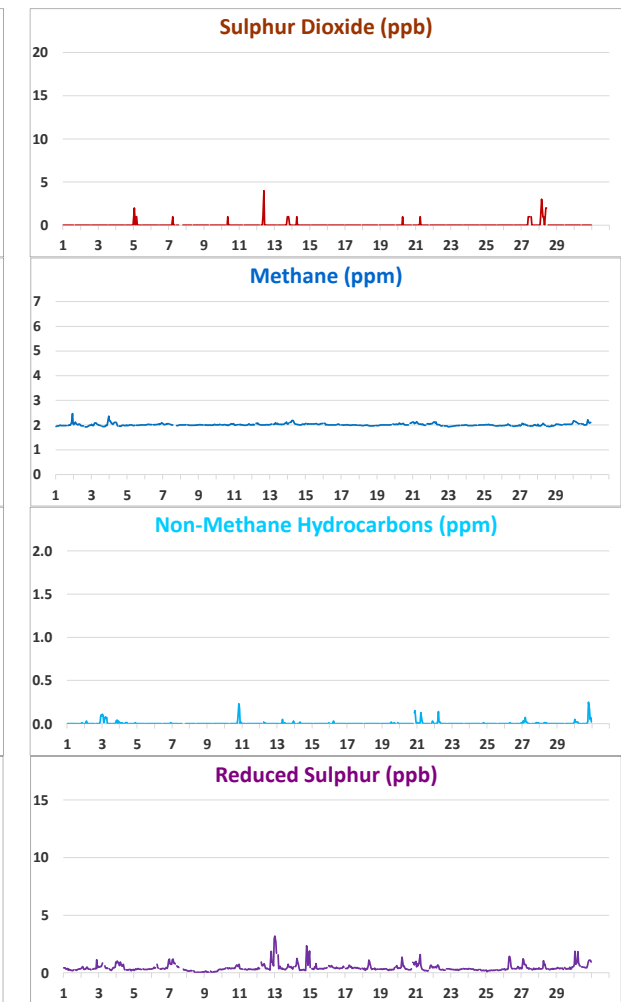
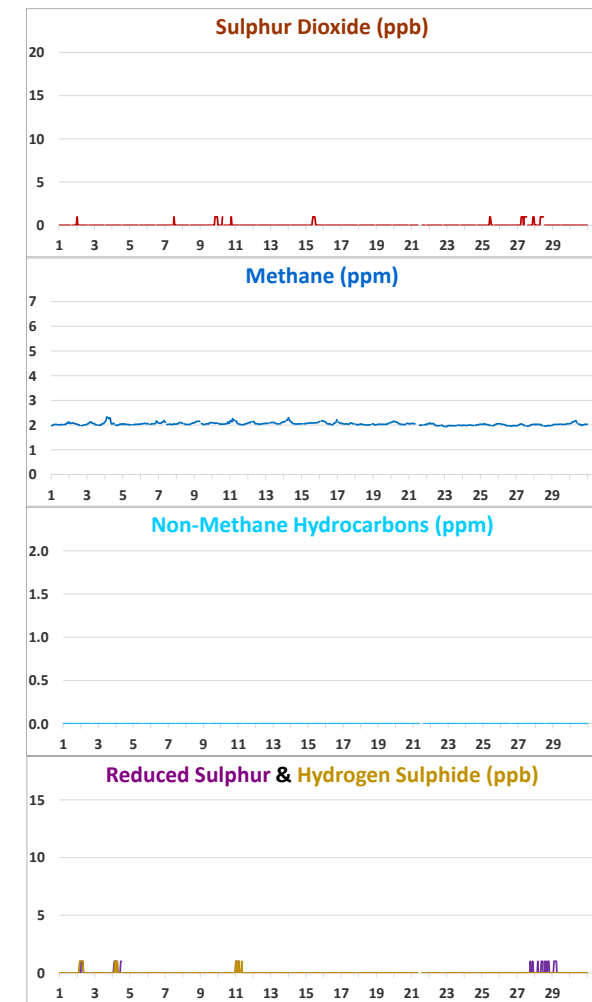
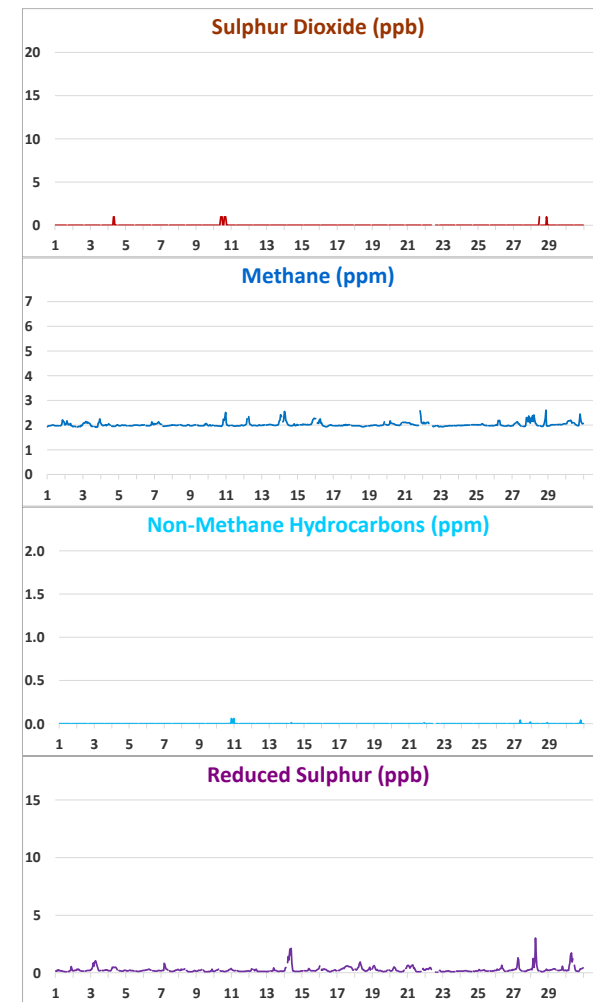
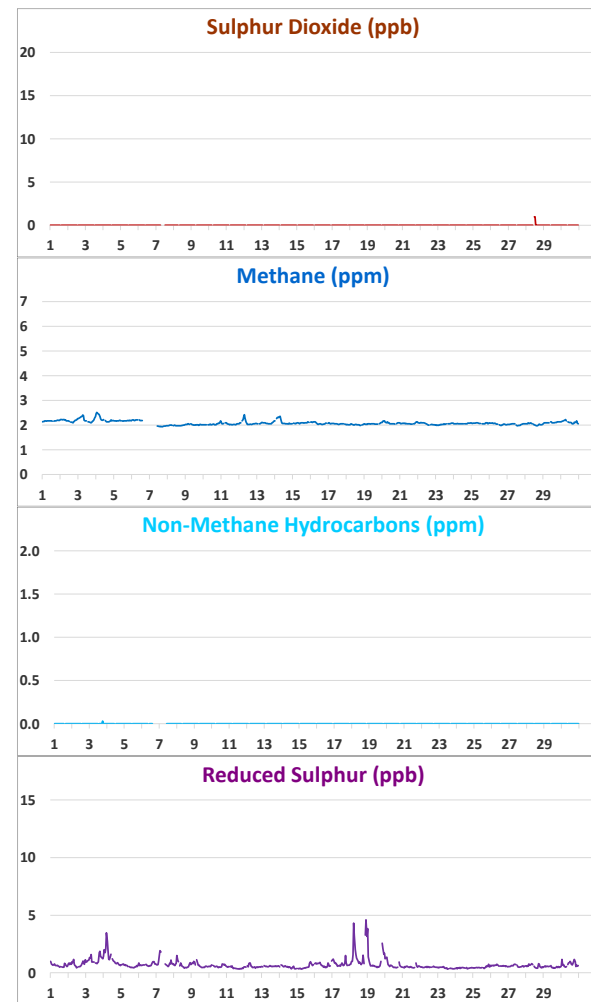
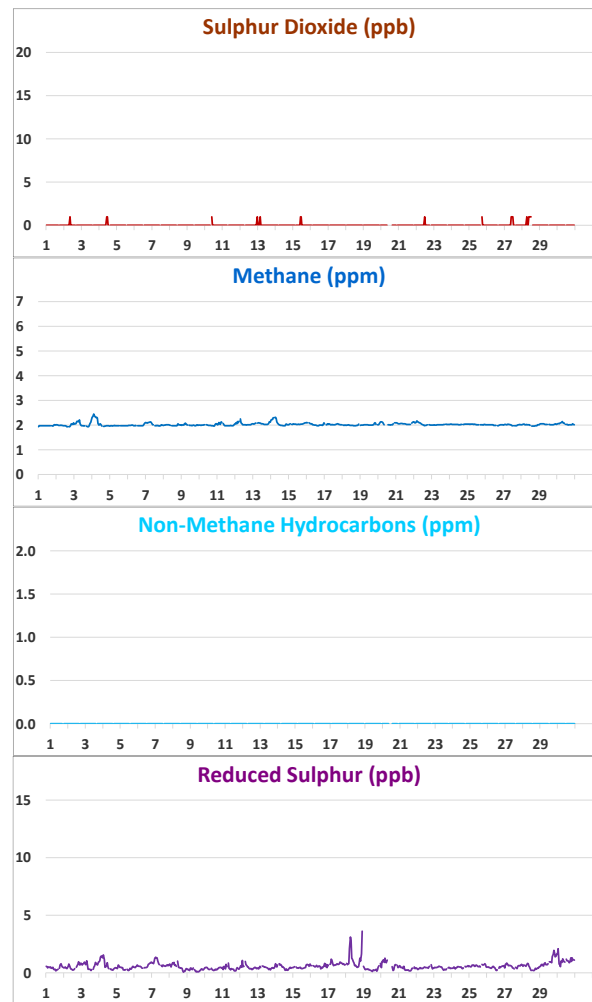
Station 986c

Station 842b

Reno 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](#))

### 986c Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAQOs) where applicable. All parameters met the 90% operational uptime requirement, except precipitation (34.7%).
- **Precipitation:** The precipitation gauge was found to have a loose connection with the datalogger during the September 19 site visit. The connection was fixed on September 19 hour 18. Data collected before September 19 were compared with other near-by stations and deemed invalid. Data were discarded back to the time the last valid system check, which was August 5 hour 9. 639 hours and 450 hours of data were discarded in August and September, respectively.

### 842b Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAQOs) where applicable. No major operational issues this month that resulted in reportable downtime events.
- **THC/CH4/NMHC:** On September 6, the Thermo 55i analyzer, s/n: 1193585652, was verified and removed, and the Thermo 55i analyzer, s/n: 12208316589, was installed. The installation calibration was completed on September 7. 14 hours of downtime were recorded due to this event. This analyzer swap was to address the concern of unexpected high CH4 concentrations continuing being recorded from the analyzer.

### Reno Station

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

### PRC Station

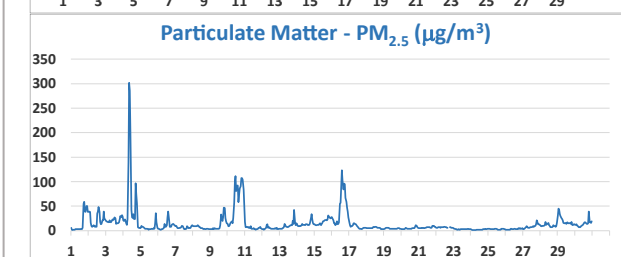
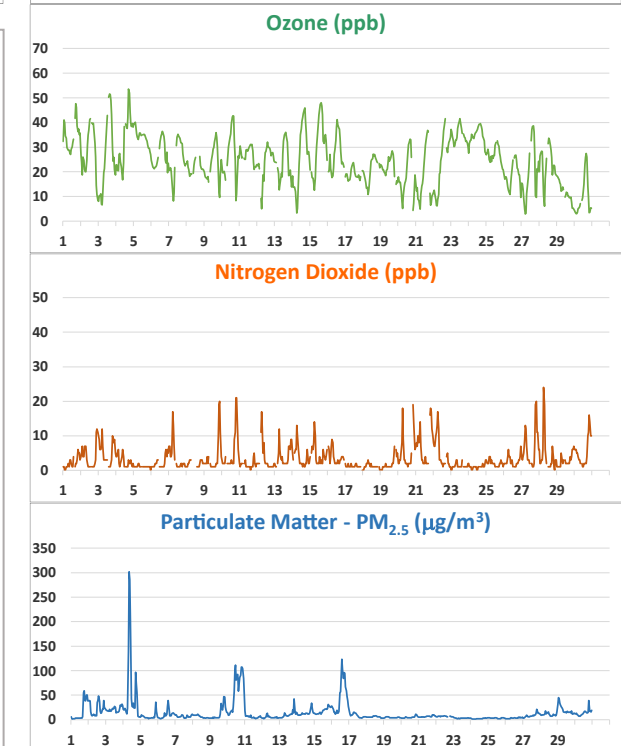
- Measured parameters were below Alberta Ambient Air Quality Objectives (AAQOs) where applicable. No major operational issues this month that resulted in reportable downtime events.

### AQHI Station – Grimshaw

- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAQOs) and /or Alberta Ambient Air Quality Guidelines (AAQGs) where applicable, except PM2.5. 22 1-hour and 3 24-hour PM2.5 exceedances were recorded and were caused by smoke being transported into the area from wildfires burning in BC.

### NMHCs Canister Sampling Program

- Two NMHC canister events were recorded at the Reno station; on September 10 at 20:30, at concentration of 0.34ppm, and on September 30 at 19:20, at concentration of 0.35ppm.



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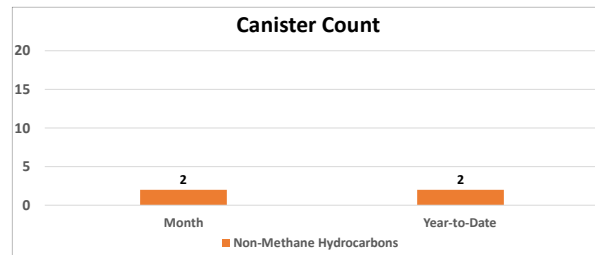
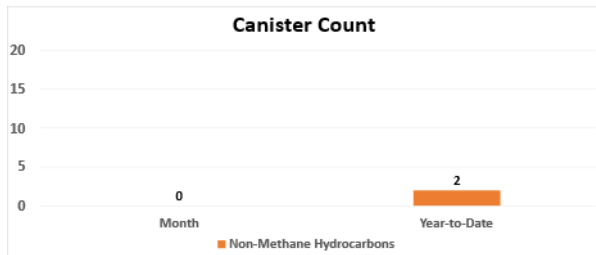
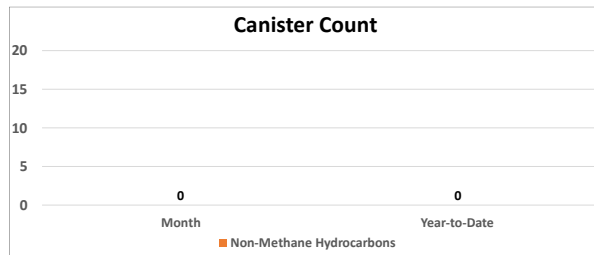
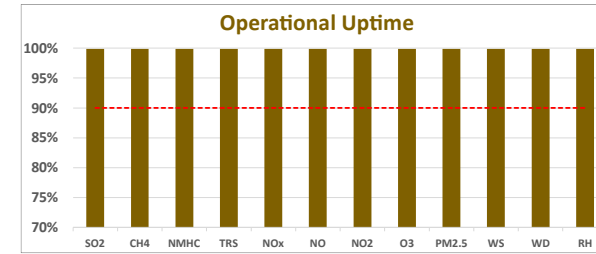
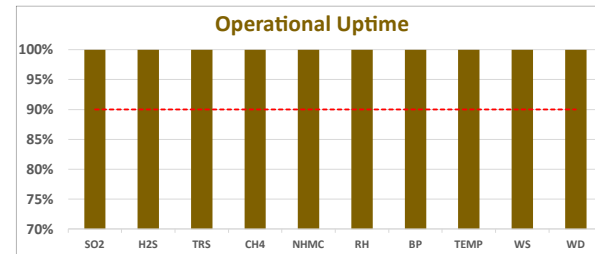
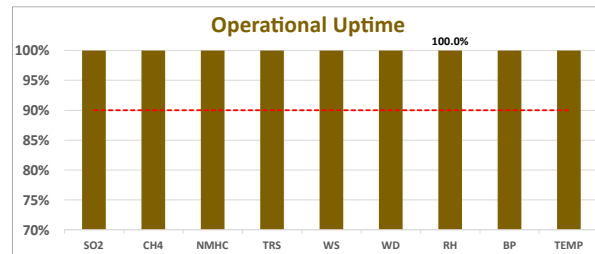
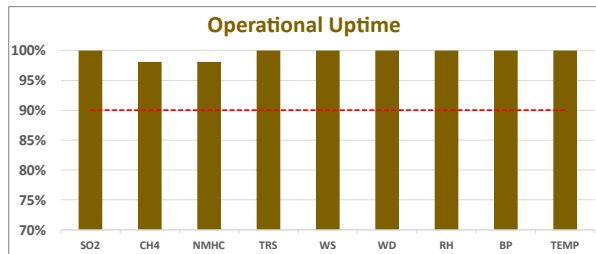
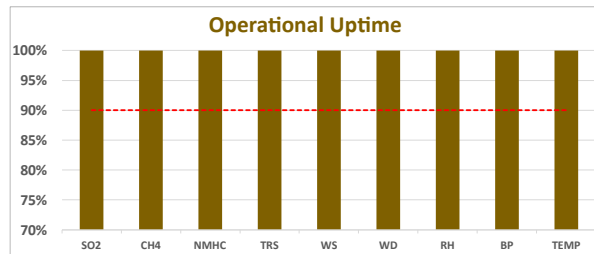
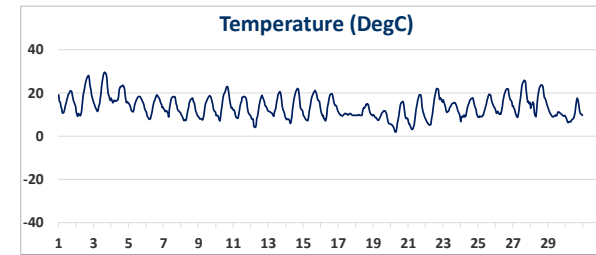
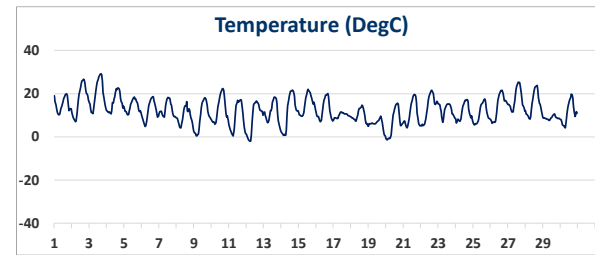
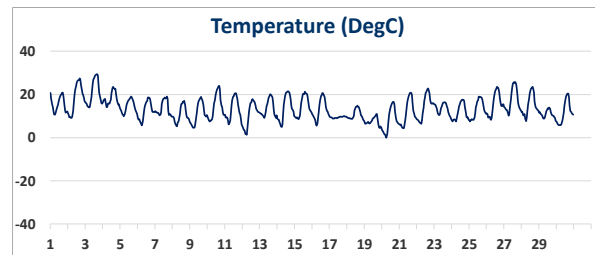
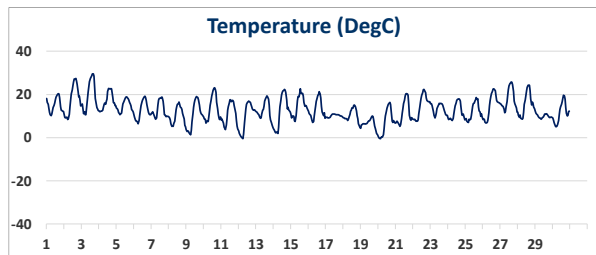
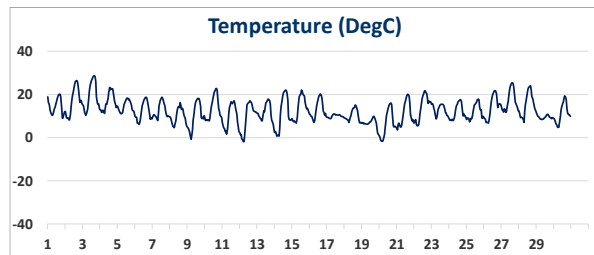
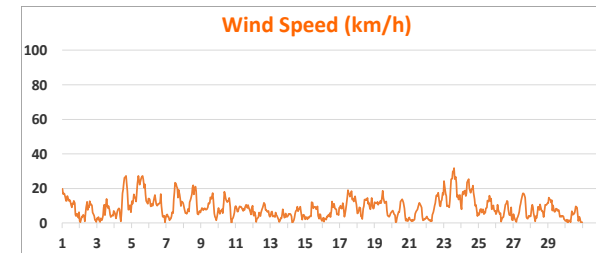
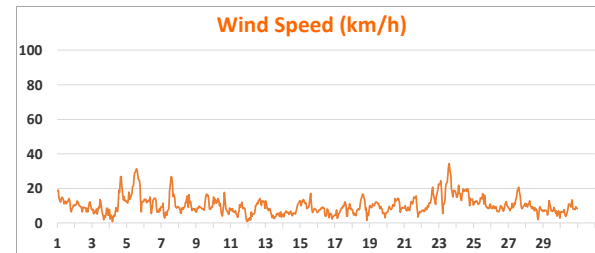
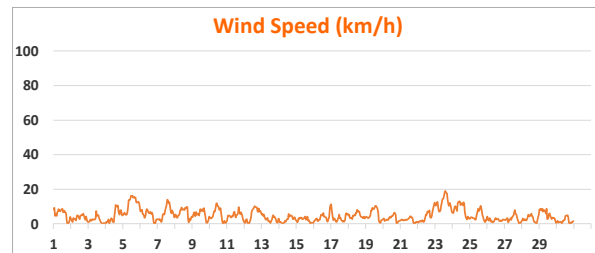
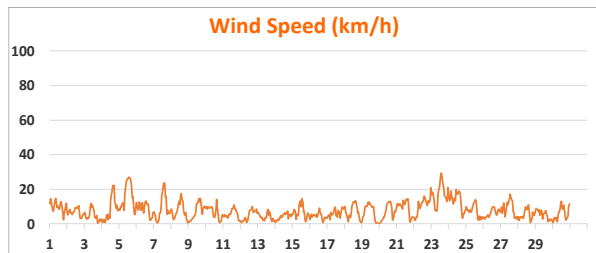
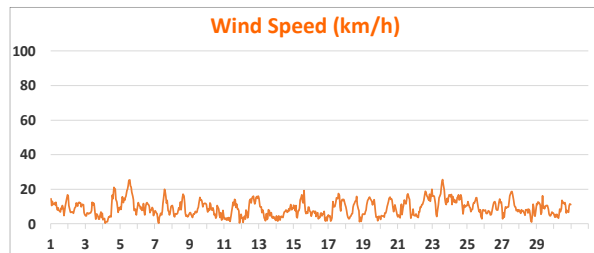
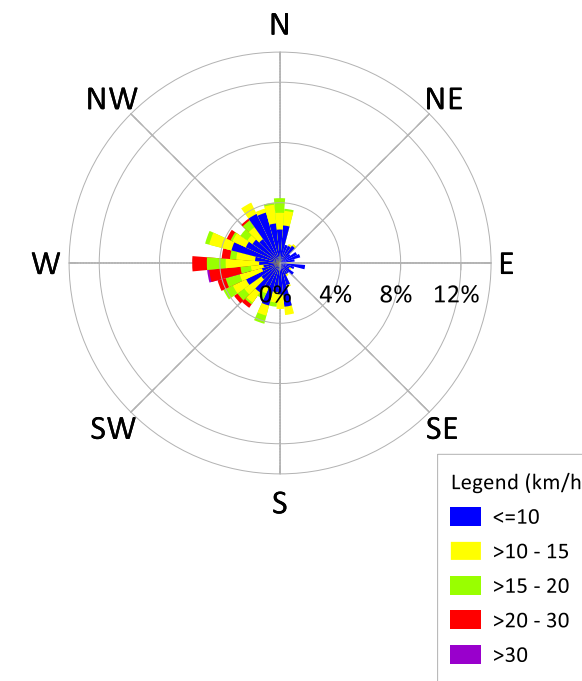
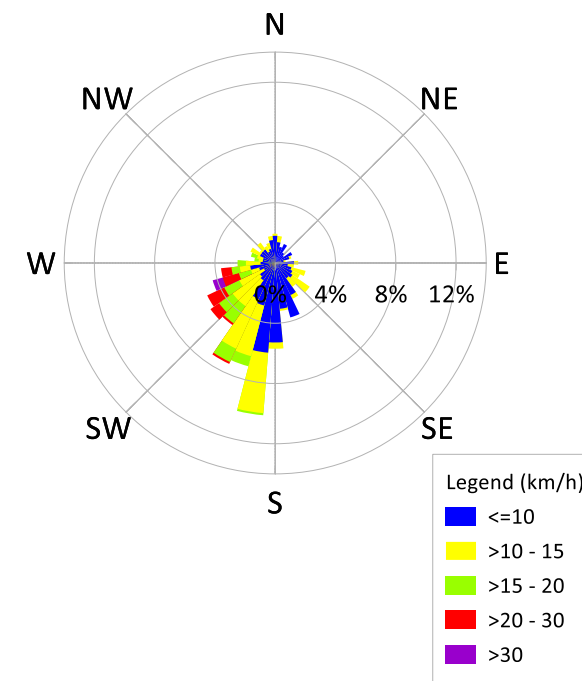
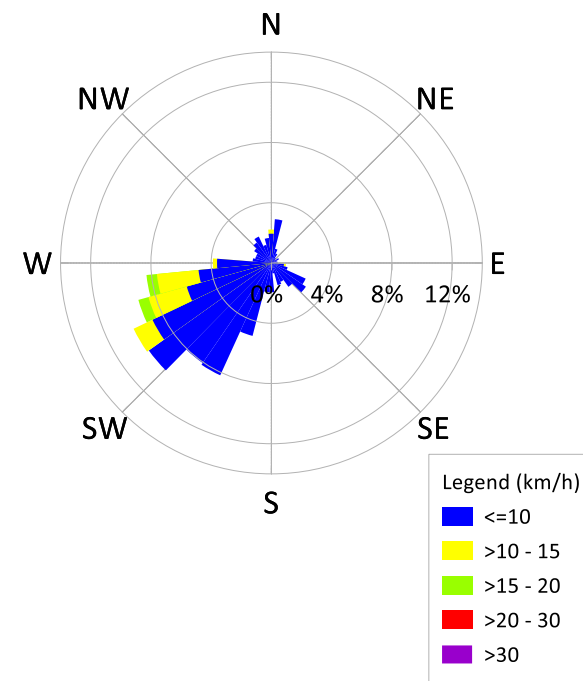
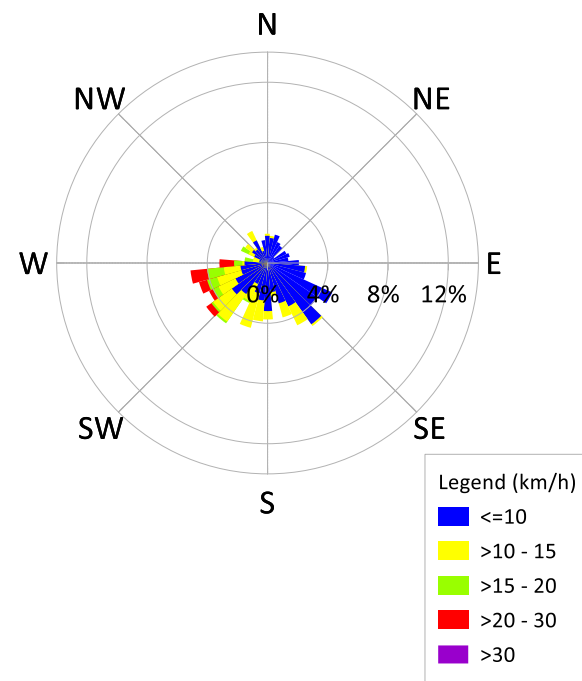
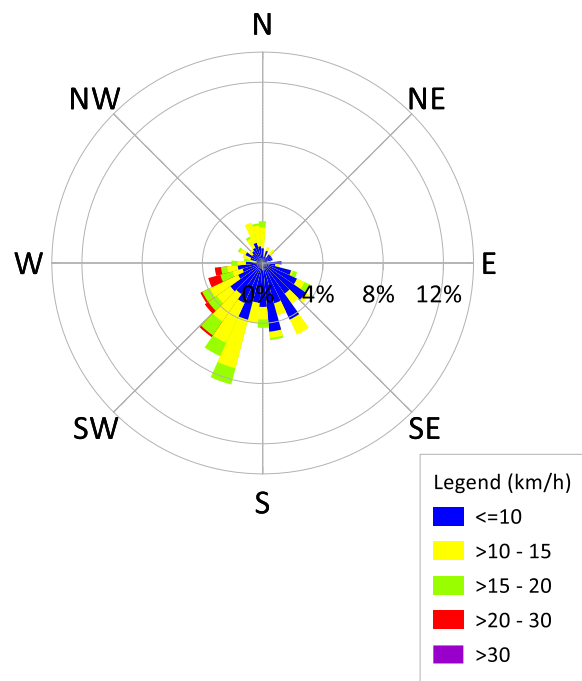
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**Targets, Guidelines, and Objectives**  
 Sulphur Dioxide 1h AAAQO = 172 ppb  
 Ozone 1h AAAQO = 76 ppb  
 Particulate Matter (PM<sub>2.5</sub>) 1h AAAQG = 80 µg/m<sup>3</sup>  
 Nitrogen Dioxide 1h AAAQO = 159 ppb  
 Operational Uptime Requirement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

