

# August 2022: Active Monitoring Program

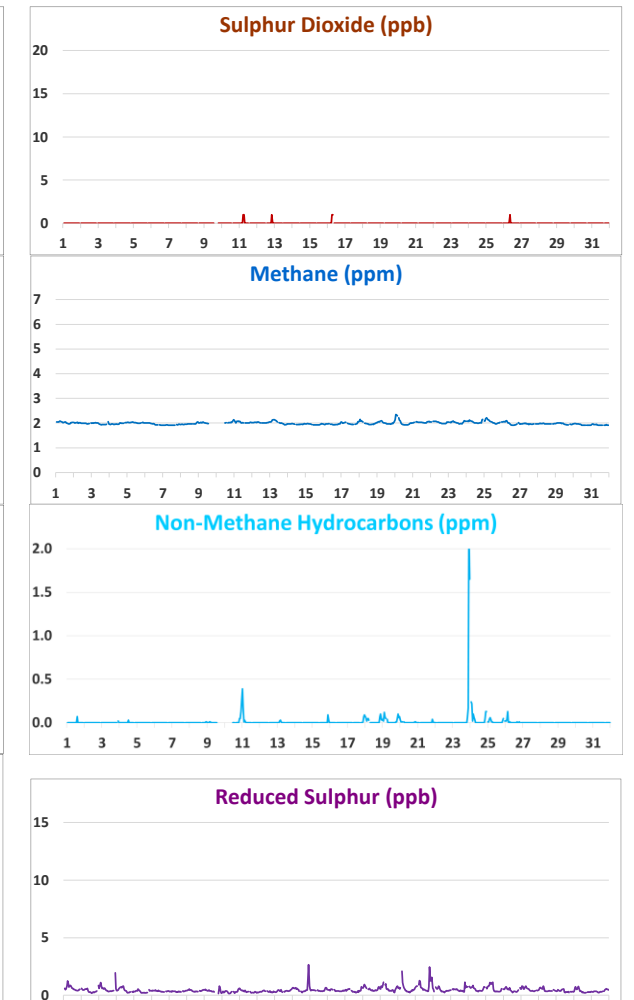
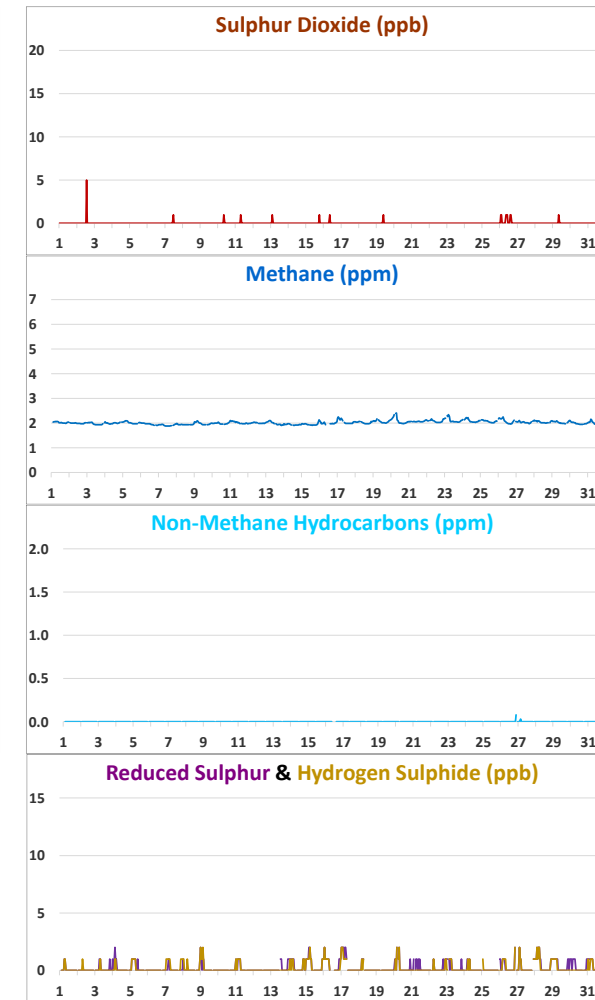
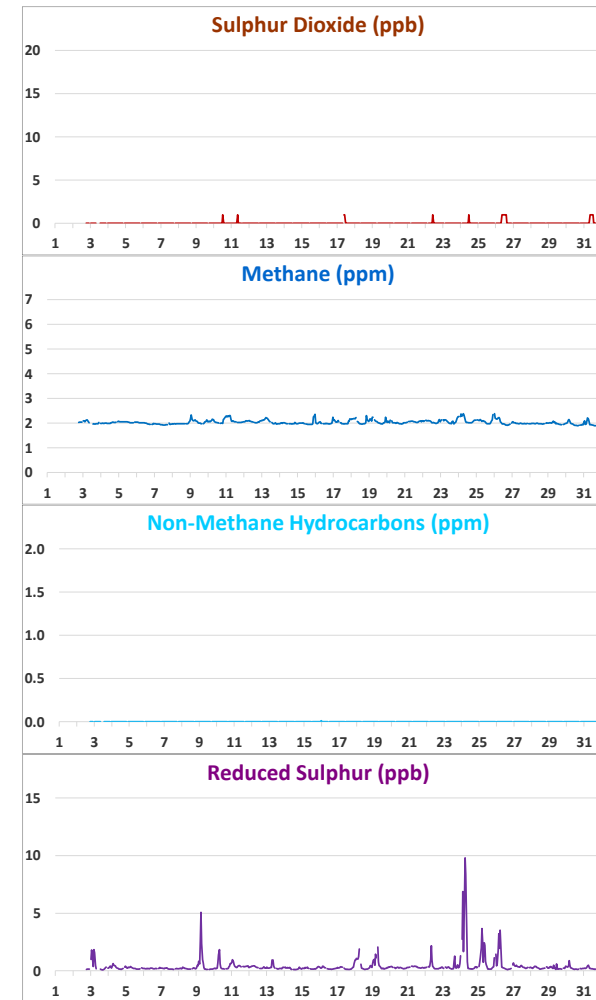
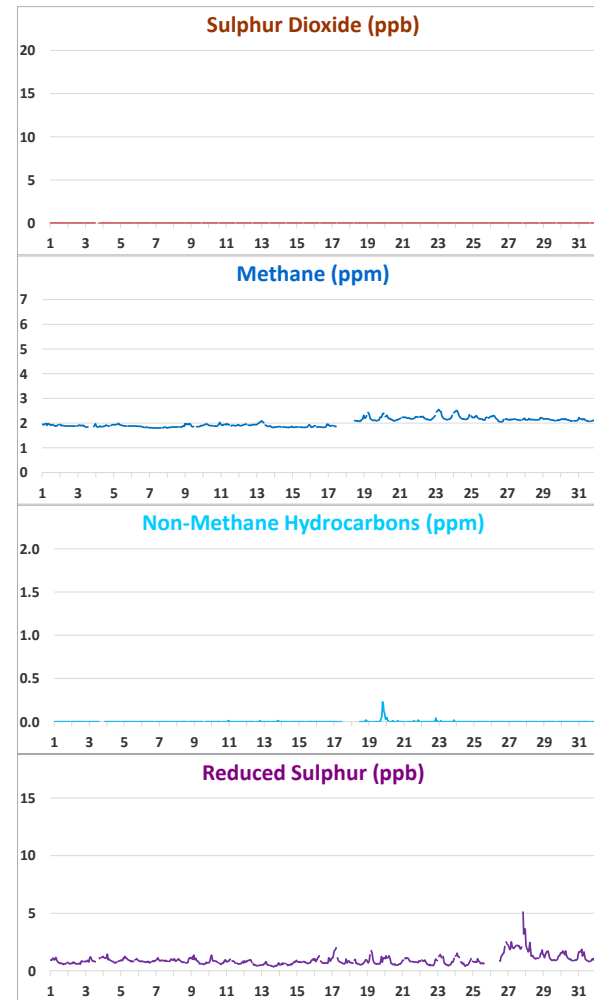
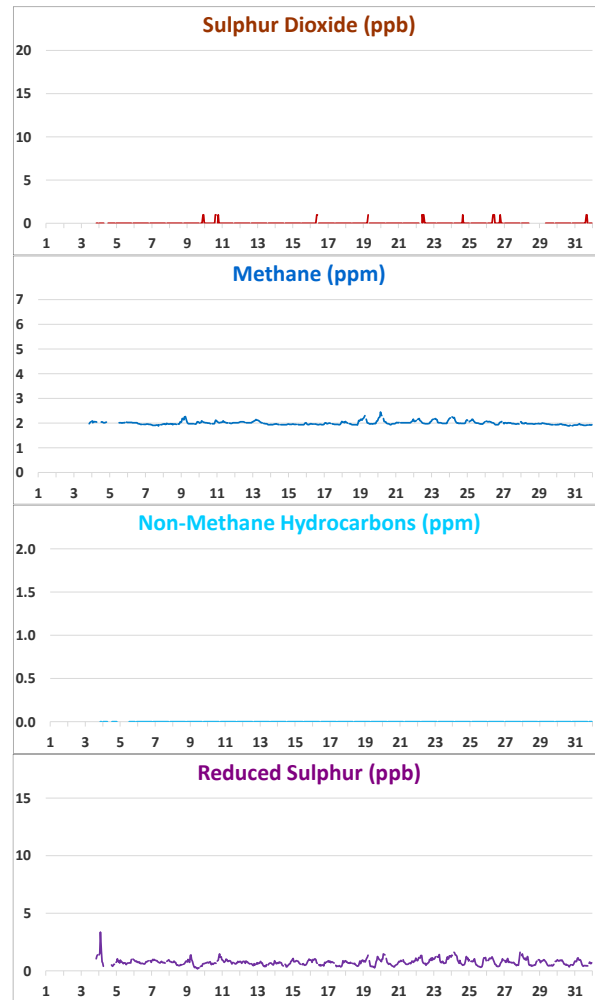
Station 986c

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 (AAAQOs) where applicable. All parameters met the 90% operational uptime requirement, except SO<sub>2</sub> (87.8%) and THC/CH<sub>4</sub>/NMHC (88.7%). **AEP reference #: 404462.**
- A major power outage occurred on July 29 hour 19. The power was back on August 3 hour 19. 69 hours of downtime were recorded in August.
- **SO<sub>2</sub>:** The analyzer failed due to a firmware crash on August 28. The analyzer was reset on August 29. 22 hours of downtime were recorded.
- **THC/CH<sub>4</sub>/NMHC:** The analyzer failed due to a sample pump failure on August 4. The pump was replaced on August 5. 16 hours of downtime were recorded due to this event.

### 842b 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.
- **THC/CH<sub>4</sub>/NMHC:** Following a successful shut-down calibration on the Thermo 55i analyzer, s/n: 1501663728, on August 17, the analyzer was removed for maintenance. The Thermo 55i analyzer, s/n: 1193585652, was installed. CH<sub>4</sub> baseline shifted up after the analyzer, s/n: 1193585652, was installed. The analyzer will be removed from the field in early September for investigation.

### Reno 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.
- A major power outage occurred on July 29 hour 22. The power was restored on August 2 hour 18. 42 hours of downtime were recorded in August due to this event.

### PRC Station

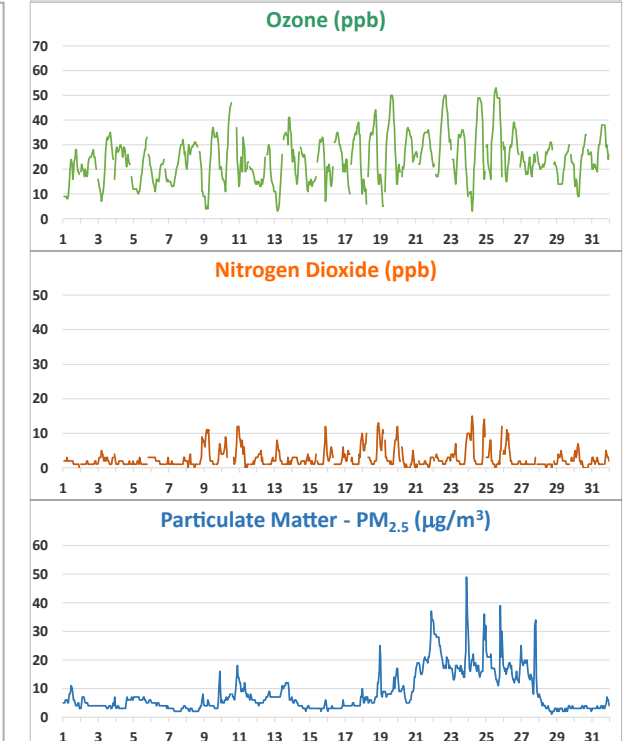
- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable. No major operational issues this month that resulted in reportable downtime events.

### AQHI Station – Grimshaw

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

### NMHCs Canister Sampling Program

- There were no canister events recorded this month.



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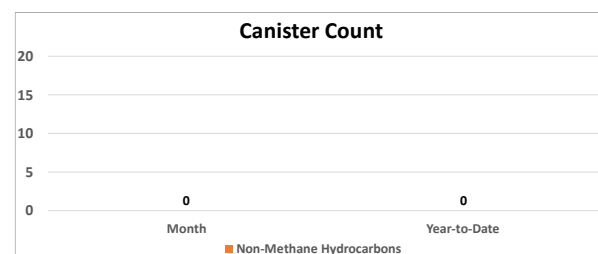
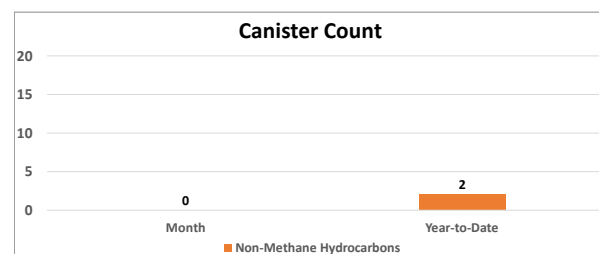
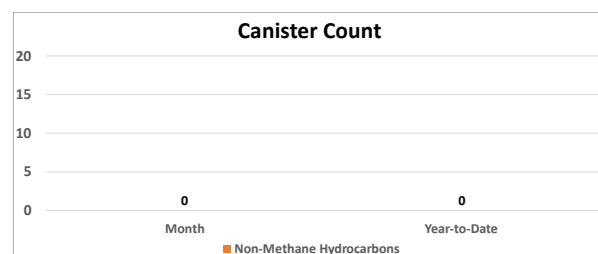
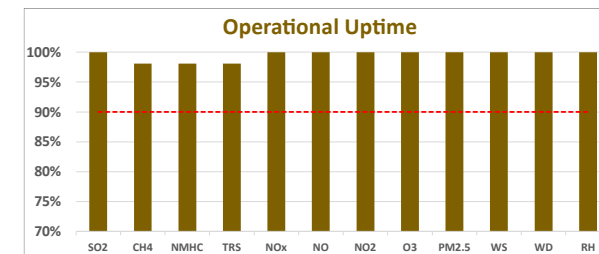
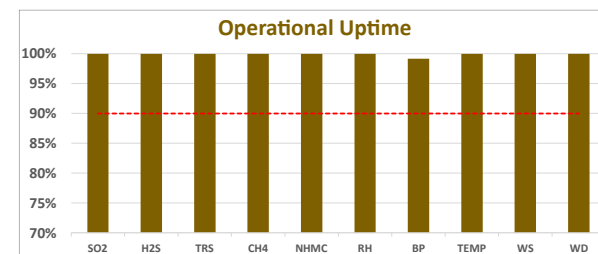
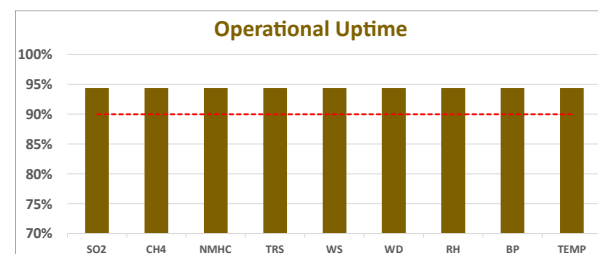
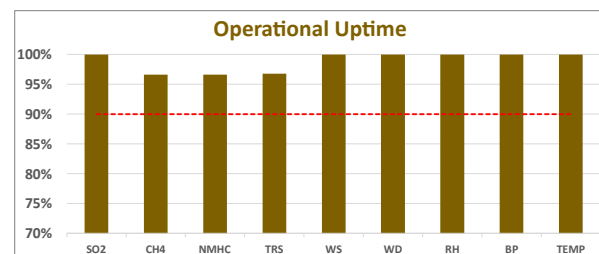
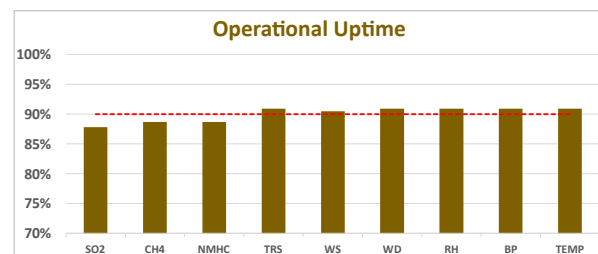
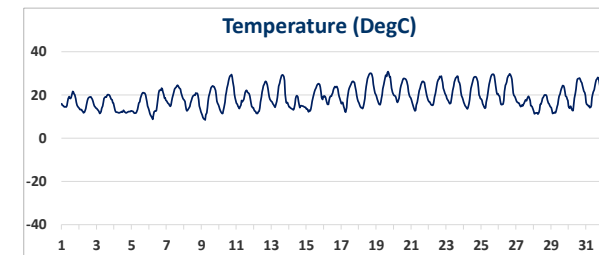
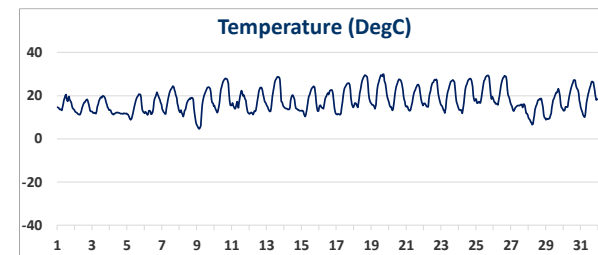
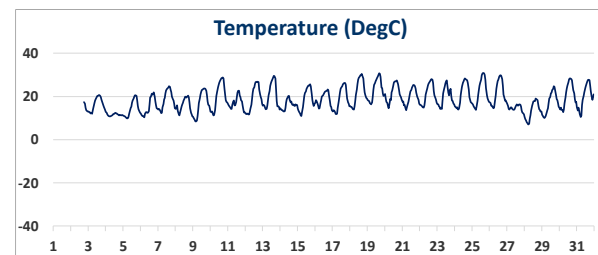
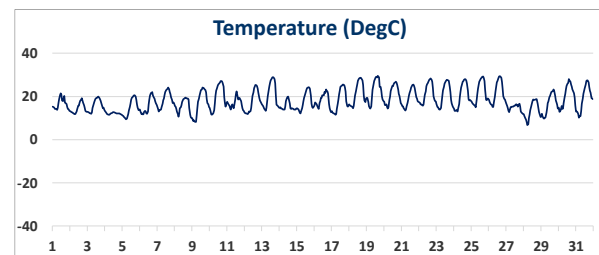
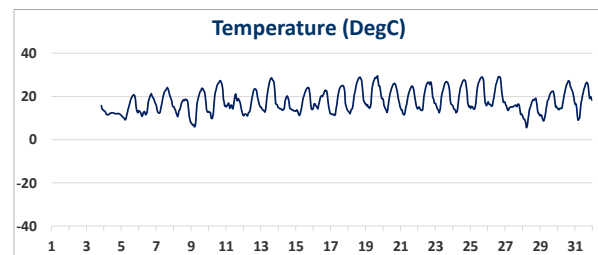
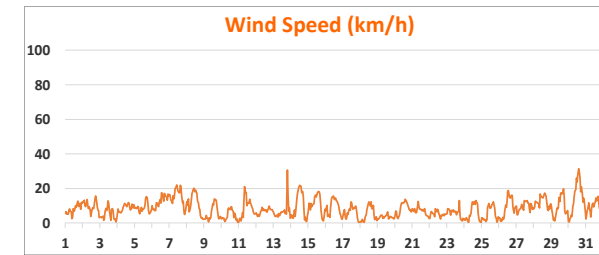
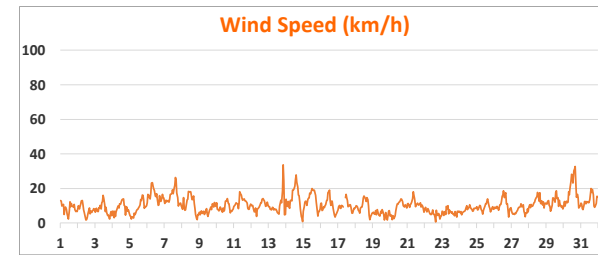
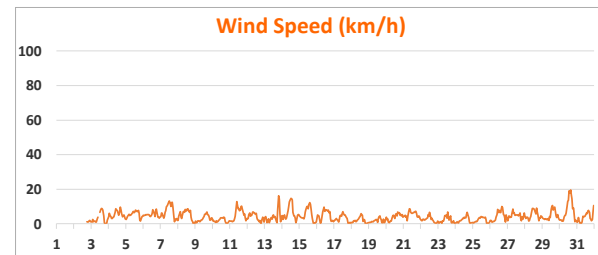
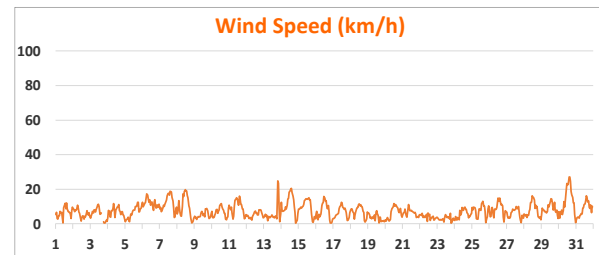
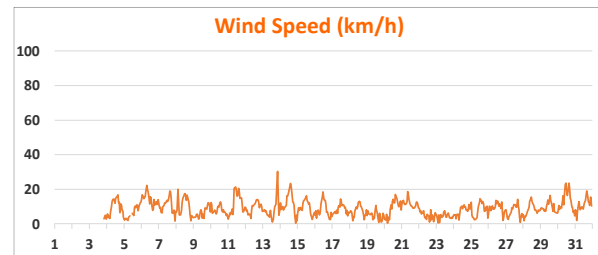
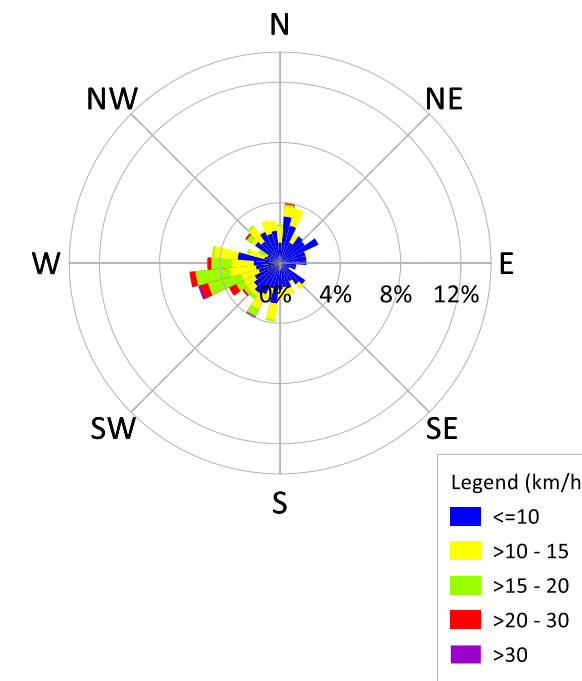
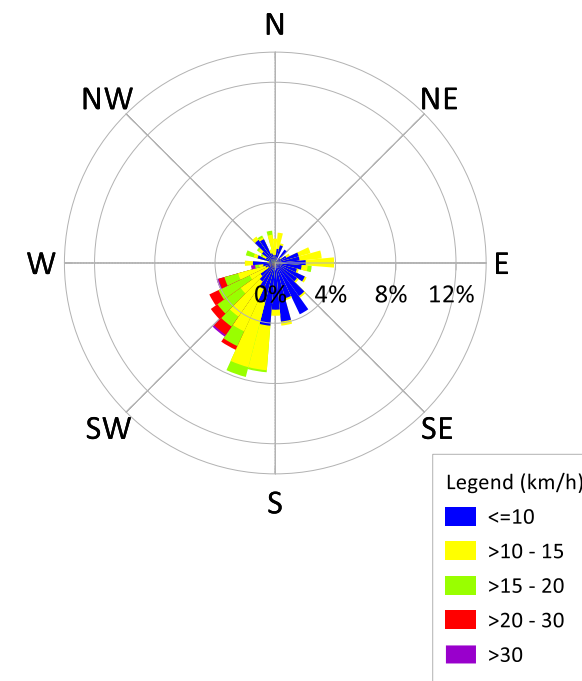
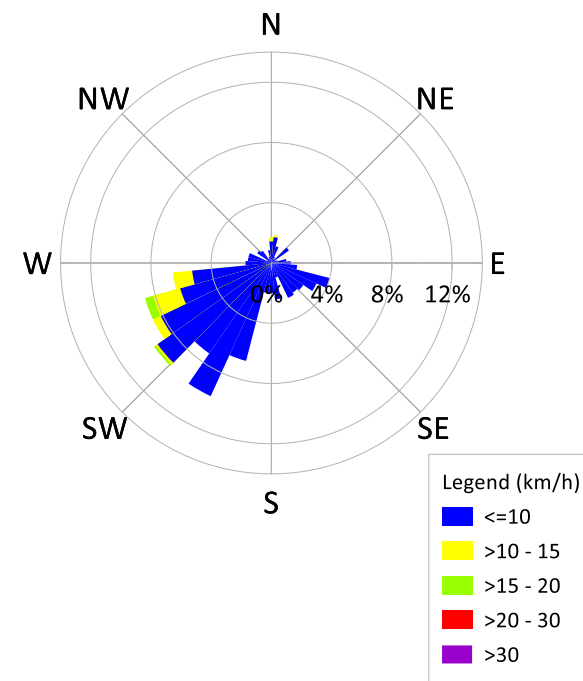
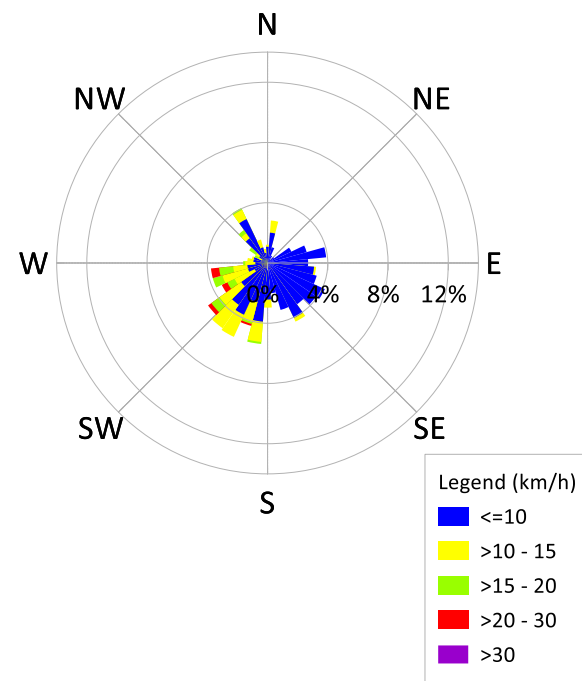
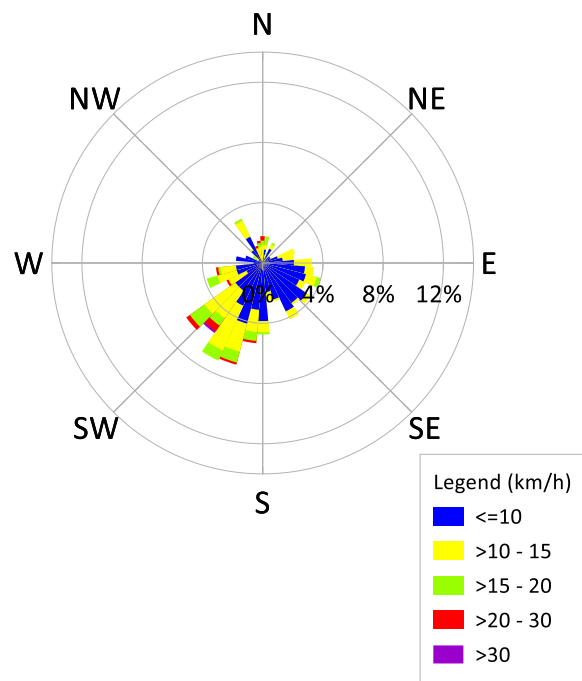
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**Targets, Guidelines, and Objectives**  
 Sulphur Dioxide 1h AAAQO = 172 ppb  
 Ozone 1h AAAQO = 76 ppb  
 Particulate Matter (PM<sub>2.5</sub>) 1h AAAQO = 80 µg/m<sup>3</sup>  
 Nitrogen Dioxide 1h AAAQO = 159 ppb  
 Operational Uptime Requirement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

