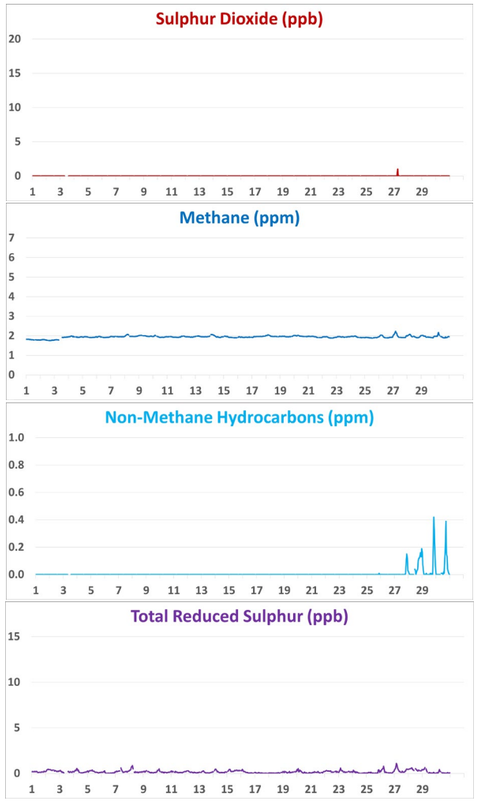
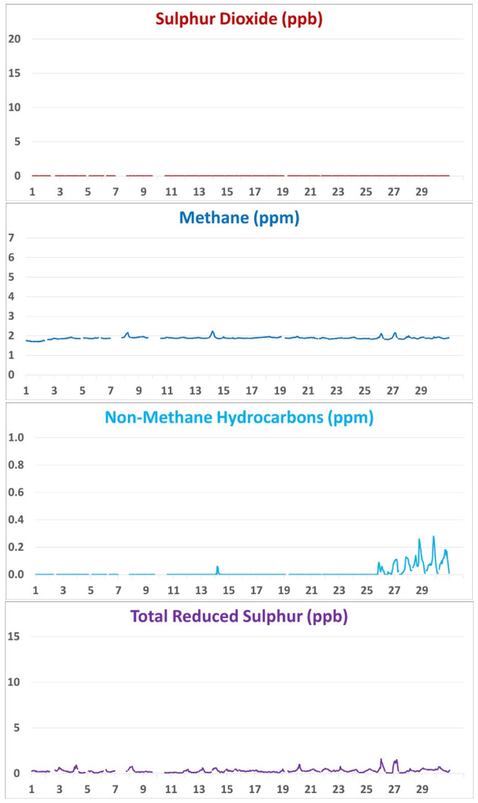
June 2021: Continuous Monitoring Program

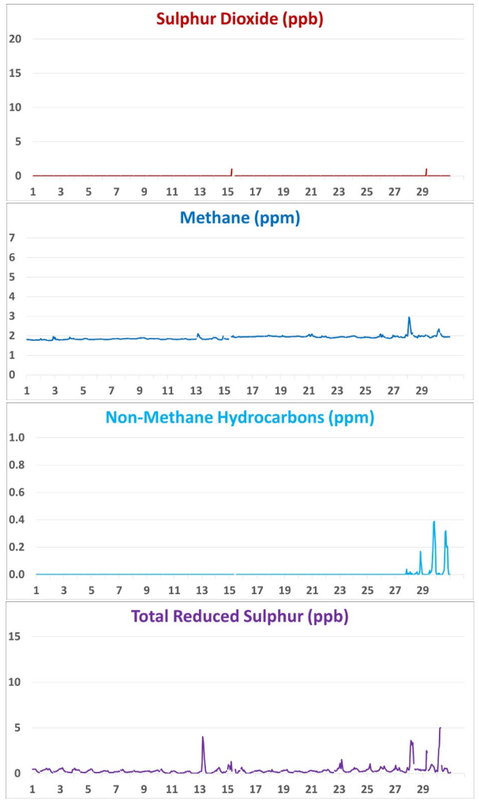
Station 986c



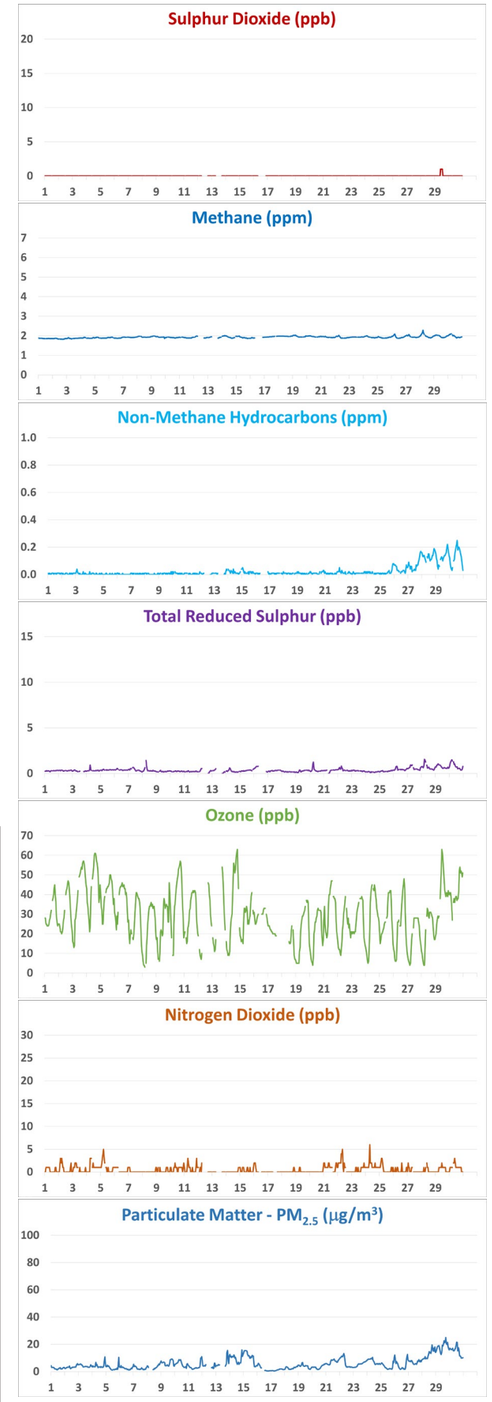
Station 842b



Reno Station



AQHI Station – Cadotte Lake



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

All Sites:

- A noticeable baseline shift was identified after the monthly calibration on June 3. No issues were identified during the calibration. The shift was likely caused by different calibration equipment that were used in this calibration. Differences between calibration systems are normal and expected (<=5%). In order to minimize differences, calibration gas cylinders used across the PRAMP network were selected based on similar apparent concentrations (similar known concentrations of calibration gases based on certification results). PRAMP is investigating ways to minimize any difference due to concentration variations from calibration gases including using dedicated gas cylinders for the PRAMP network.

986c Station

- **TRS:** Unstable span check responses started being recorded on June 28. Additional zero-span check were completed on June 28 hour 11 and June 29 hour 5 to investigate the drift. As the analyzer passed the July monthly calibration, all data were deemed to be valid. No data were discarded. However, two hours of downtime were recorded due to additional quality checks.

842b Station

- **All parameters:** TRS: Unstable span check responses started being recorded on June 28. Additional zero-span check were completed on June 28 hour 11 and June 29 hour 5 to investigate the drift. The drift issue persisted into early July and was corrected during the July monthly calibration. As the analyzer passed the July monthly calibration, all data were deemed to be valid. No data were discarded. However, two hours of downtime were recorded due to additional quality checks.

Reno Station

- No major operational issues to report.

AQHI – Cadotte Lake Station

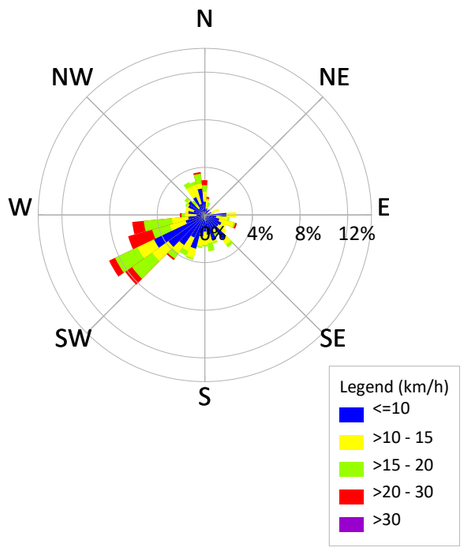
- **All parameters**: Power outage events occurred on June 12, 13 and 16. Twenty-two of downtime for all gas parameters and nineteen hours downtime for all meteorological channels were recorded. Following the power outages, extra instrument recovery time was needed for all gas parameters on June 12 hour 15, June 13 hour 15 and June 16 hour 12.

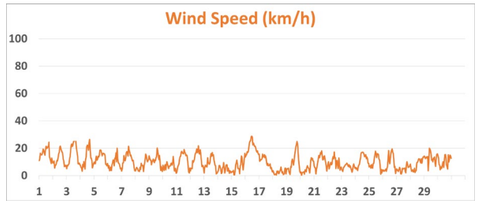
VOCs Canister Sampling program

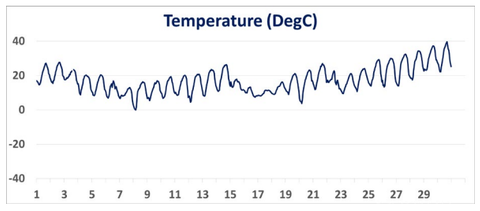
- In June 2021, 4 canisters were collected at 986 (1), 842 (2), and Reno (1). The canisters were triggered by wildfire smoke and therefore the program was paused between June 30 and July 5.

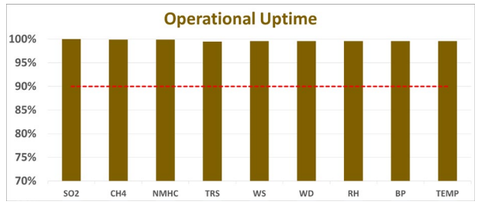
June 2021: Continuous Monitoring Program

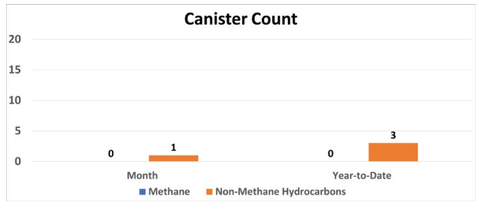
Station 986c



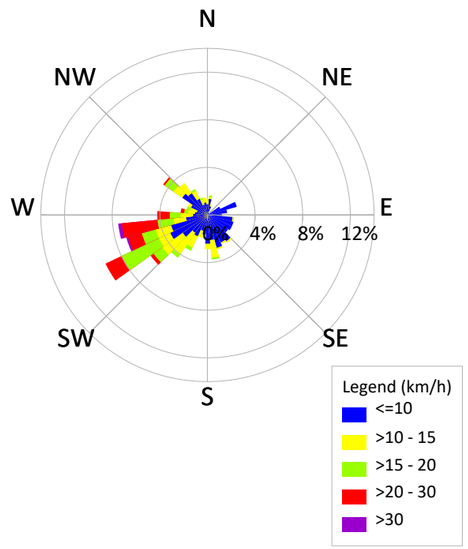


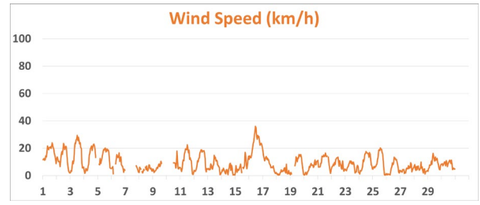


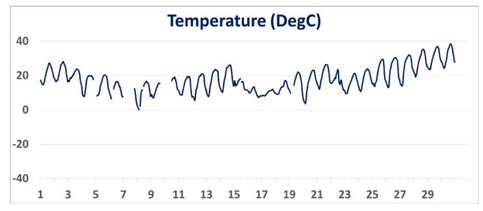


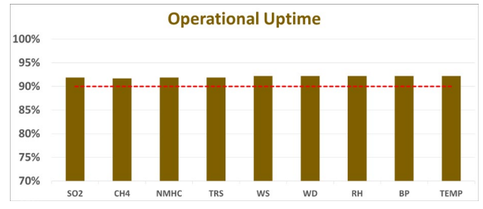


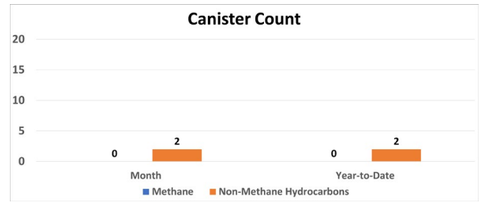
Station 842b



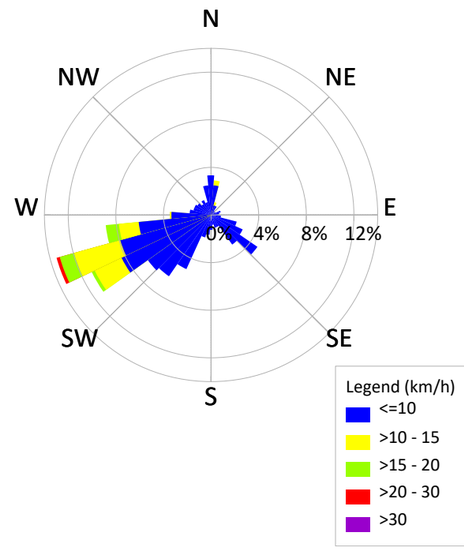


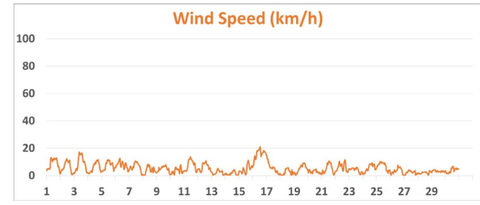


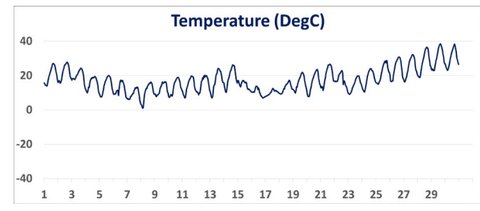


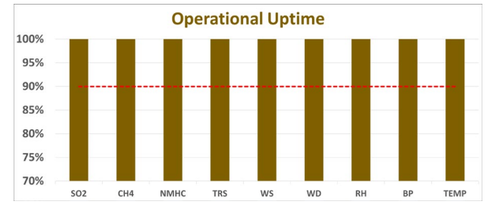


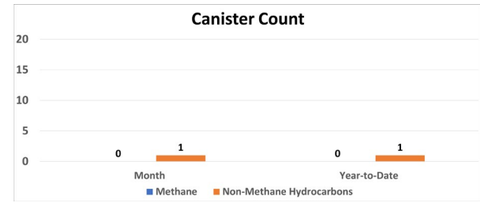
Reno Station



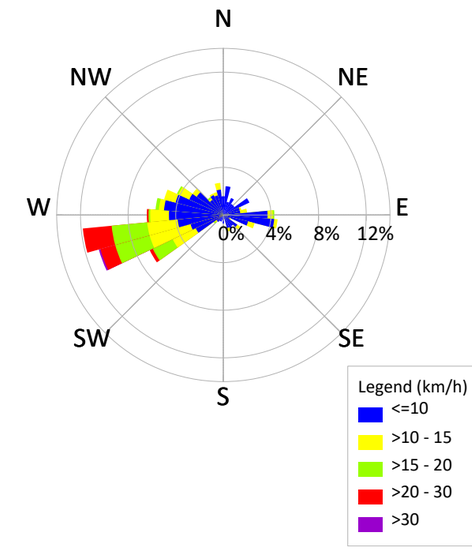


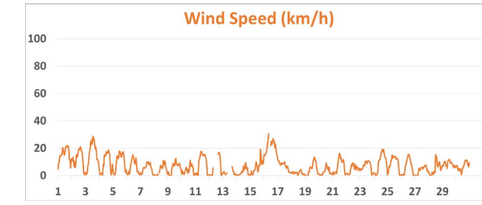


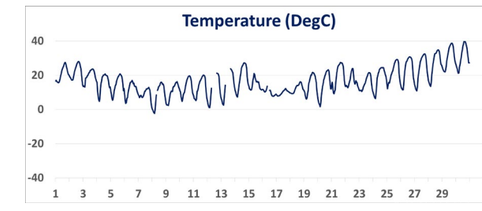


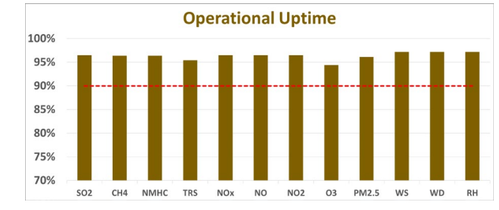


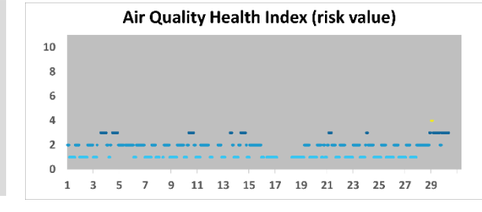
AQHI Station – Cadotte Lake









Targets, Guidelines, and Objectives

Sulphur Dioxide 1h AAAQO = 172 ppb
Ozone 1h AAAQO = 76 ppb
Particulate Matter AAAQG = 80 µg/m^3
Nitrogen Dioxide AAAQO = 159 ppb
Operational Uptime Requirement = 90%
AQHI Risk Value = 1-3 Low, 4-6 Moderate, 7-9 High, 10+ Very High