October 2023: Active Monitoring Program



986-C Station

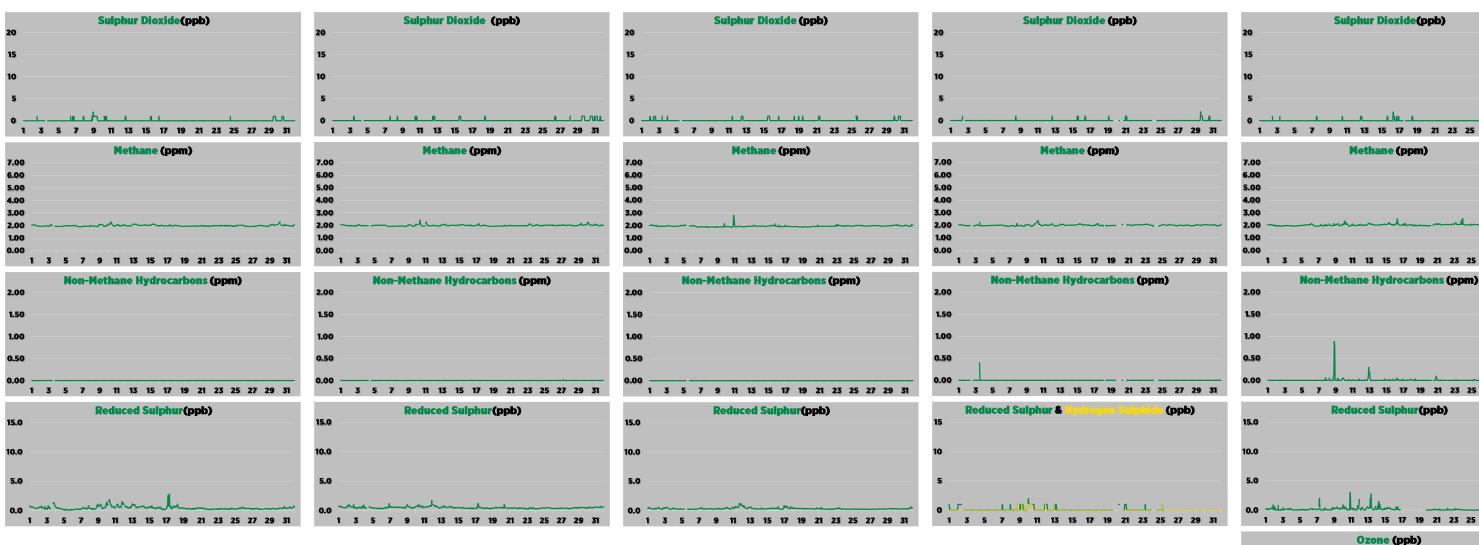
842-B Station

Reno-B Station

PRC Station



Sulphur Dioxide(ppb)



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
- 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

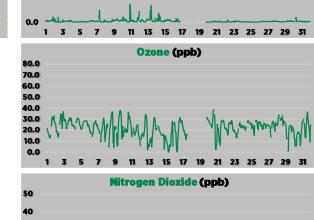
- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable. **PRC Station**
 - Measured parameters were below Alberta Ambient Air Quality Objectives where applicable. All parameters met the 90% operational uptime requirement, except TRS (73.4%). DINC 0002366.
 - TRS analyzer malfunctioned due to a converter failure on October 26. It was repaired by replacing the failed CD Nova CDN-101 converter (s/n: 506) with BV's converter (s/n: 516) on October 31. After a successful calibration on November 2, operations resumed. Data were invalidated back to the last valid calibration check, which was October 25 hour 11.
 - HVAC issues between October 19-26 caused station temperatures to exceed the recommended limits for analyzers, affecting data integrity. Data from this period were discarded resulting in 43 hours of downtime.

AQHI Station – Grimshaw

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAQGs) where applicable, except PM2.5. On October 10, PM2.5 concentrations exceeded the 1-hour guideline with values of 99 ug/m³ at 9:00, 100 ug/m³ at 10:00, and 88 ug/m³ at 11:00. The 24-hour objective was exceeded on October 11 at 32 ug/m³. All events were caused by wildfire smoke.
- NOx/NO/NO2: The BV API 200E analyzer (s/n: 594) was replaced with PRAMP's Teledyne T200 (s/n: 837) on October 17th, following a shutdown calibration. After overnight stabilization, a successful installation. calibration was completed on October 18, resulting in 21 hours of downtime.
- O3: The BV API 400A analyzer (s/n: 445) was swapped for PRAMP's Teledyne T400 (s/n: 824) on October 17th. Following a period for stabilization, a successful installation calibration was completed on October 19th. These events resulted in 46 hours of downtime.

NMHCs Canister Sampling Program

• There were no canister events recorded this month.



Particulate Matter - PM_{2.5} (ug/m³)

Reduced Sulphur(ppb)

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