



Peace River Area Monitoring Program

FEBRUARY 2021

Monthly Ambient Air Quality Monitoring Report

PRAMP-202102

Operation and Maintenance:

Bureau Veritas Canada

Data Validation and Report:

Peace River Area Monitoring Program

March 19, 2021

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LIST OF ACRONYMS

AAAQOs	Alberta Ambient Air Quality Objectives
AEP	Alberta Environment and Parks
AMD	Air Monitoring Directive
AT	Ambient Temperature
BP	Barometric Pressure
CH ₄	Methane
EPEA	Environmental Protection and Enhancement Act
H ₂ S	Hydrogen Sulphide
kph	kilometers per hour
mb	millibar
mm	millimeter
NMHC	Non-Methane Hydrocarbons
ppb	parts per billion
ppm	parts per million
PRAMP	Peace River Area Monitoring Program
RH	Relative Humidity
SO ₂	Sulphur Dioxide
ST	Station Temperature
THC	Total Hydrocarbons
TRS	Total Reduced Sulphur
VWD	Vector Wind Direction
VWS	Vector Wind Speed
WD	Wind Direction
WS	Wind Speed
°C	Degrees Celsius



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March 19, 2021

RE: PRAMP – February 2021 Monthly Ambient Air Quality Monitoring Report

Enclosed is the February 2021 Monthly Ambient Air Quality Monitoring Report for the continuous ambient air quality monitoring stations of the Peace River Area Monitoring Program (PRAMP) regional air quality monitoring network.

The representative of the Person Responsible for this monitoring program is

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This report has been prepared, reviewed and submitted by Michael Bisaga & Lily Lin of the PRAMP Airshed.

NETWORK STATION SUMMARY

Listing of Continuous Monitoring Stations

The PRAMP continuous ambient air quality monitoring network stations are:

- 986c Station
- 842b Station
- Reno Station
- AQHI Cadotte Lake

Station ID	Station Name	Latitude	Longitude
1562	986c	56.36980	-116.92500
1561	842b	56.27406	-116.98129
1563	Reno	55.86936	-117.05739
1651	AQHI-Cadotte Lake	56.49022	-116.42739

Listing of Intermittent Monitoring Stations

- VOC Canister Sampling Station
 - 986c Station
 - 842b Station
 - Reno Station

Monitoring Notes during the Month of February 2021

986c Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.
- No issues were identified this month.

842b Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement, except TRS (79.5%). **AEP reference #: 376631.**
- **TRS:** The analyzer failed the daily span check on February 19. A shut-down calibration that was performed on February 23 did not meet the AMD calibration check requirements as the slope was outside acceptance criteria. This failure was caused by low ambient temperatures and the related lack of moisture in the sample air. Extreme cold weather conditions have a known,

detrimental effect on SO2 scrubber performance causing a delayed and reduced response in the analysis. Scrubber material was renewed, and a post-repair calibration was successfully completed afterwards on February 24. Data were invalidated back to the last valid calibration check, which was February 18. One hundred thirty-eight hours of downtime were recorded due to this event.

Reno Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement, except TRS (72.8%). **AEP reference #: 376633.**
- **TRS:**
 - The analyzer failed the daily span check on February 8 and the as-found points check on February 9. Immediate corrective action was not practicable given the ongoing ambient conditions (low ambient temperatures and low humidity in the sample air). The analyzer passed the daily zero-span check when the ambient temperatures started recovering on February 14. Data were invalidated back to the last valid calibration check, which was February 7. One hundred sixty hours data collected between February 7 and February 14 were discarded due to this event.
 - The analyzer failed the daily span check again on February 19 and the repeat zero-span check on February 20. A successful shut-down calibration was completed on February 23 before maintenance was undertaken on the analyzer. A post-repair calibration was successfully completed on February 24. As the analyzer passed the February 23's shut-down calibration, data collected between February 19 and 23 were considered valid. No data were discarded. However, twenty-three hours of downtime were recorded due to maintenance and additional quality checks.
- **THC/CH4/NMHC:** The analyzer malfunctioned on February 7 due to the sample pump failure. The sample pump was replaced followed by a successful post-repair calibration on February 8. Forty-two hours of downtime were recorded due to this event.
- **Precipitation:** Incorrect serial number of the rain gauge system was included in the monthly reports and the calibration reports since the system was installed in October 2020. Instead of TB 1588, the correct s/n of the system is TB15877. As the precipitation parameter was added for PRAMP regional study, data submission to Alberta's Ambient Air Quality Data Warehouse is not required. No data re-submission will be completed for this case.

AQHI – Cadotte Lake Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.
- All parameters: Six hours of downtime were recorded on February 19 due to a power failure.
- No issues were identified this month.

VOCs Canister Sampling program:

- The canister sampling program collects a 1-hour sample of air when the continuously measured non-methane hydrocarbon (NMHC) concentration reaches a specified trigger point. The current trigger points is 0.3 ppm for non-methane hydrocarbons. The trigger point is based on real-time monitoring data that are averaged over a 5-minute period.
- The canister sample collection systems are in place at Station 986c, 842b, and the Reno Station; a canister sample collection system is not part of the suite of instruments currently deployed at the AQHI-Cadotte Lake Station.
- Sample analysis and analytical results were prepared and provided by InnoTech Alberta.
- In February, one NMHC-triggered event was recorded at the 986c station.

Station	Parameter	Date	Time	Concentration (ppm)
986c	Non-methane HC	Feb 26	09:10	0.30

- Non-methane Hydrocarbon-triggered sample was collected at the 986c station on February 26.

Sample Date/Time	2021-02-26 @09:10				
Canister Sample	Non-methane Hydrocarbon				
Canister ID	28886				
Method	NA-025	Method	NA-024	Method	AC-058
Maximum Reading (ppmv)	2.4 Methane	Maximum Reading (ppmv)	1.5 Carbonyl sulphide	Maximum Reading (ppmv)	9.4 Ethanol

- Blank sample was collected at the 986c station on February 26.

Sample Date/Time	2021-02-26 @09:10				
Canister Sample	Blank				
Canister ID	28968				
Method	NA-025	Method	NA-024	Method	AC-058
Maximum Reading (ppmv)	-	Maximum Reading (ppmv)	-	Maximum Reading (ppmv)	1.1 1-Butene/Isobutylene

Note: Analytical results that were reported as “-” mean results were below the detectable limit.

Revisions to Alberta's Ambient Air Quality Data Warehouse

No revisions to historical data previously submitted to the Alberta's Ambient Air Quality Data Warehouse were made this month.

Deviations from Authorized Monitoring Methods

At the Reno station, nearby trees exceed the height allowed under section 2.3 of the wind speed and wind direction siting criteria in Chapter 3 of the AMD. This non-conformance was documented in the updated station site documents. Further actions are being considered including siting the wind sensor so that it meets AMD Chapter 3 siting requirements, or obtaining written authorization from "The Director" to deviate from AMD Siting requirements.

Disclaimer

Baseline correction were performed on the 1-minute data. 5-minute and hourly data were calculated based on the post-baseline correction 1-minute data set. Data verification/validation were then performed on the 5-minute and hourly data. Hourly data that are included in this report are the post-validation hourly data set.

Equipment calibration / maintenance records were provided by Bureau Veritas.

Certification

This report was prepared and submitted by Lily Lin in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).



Lily Lin, Technical Program Manager, PRAMP Airshed

This report was reviewed by Mike Bisaga in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

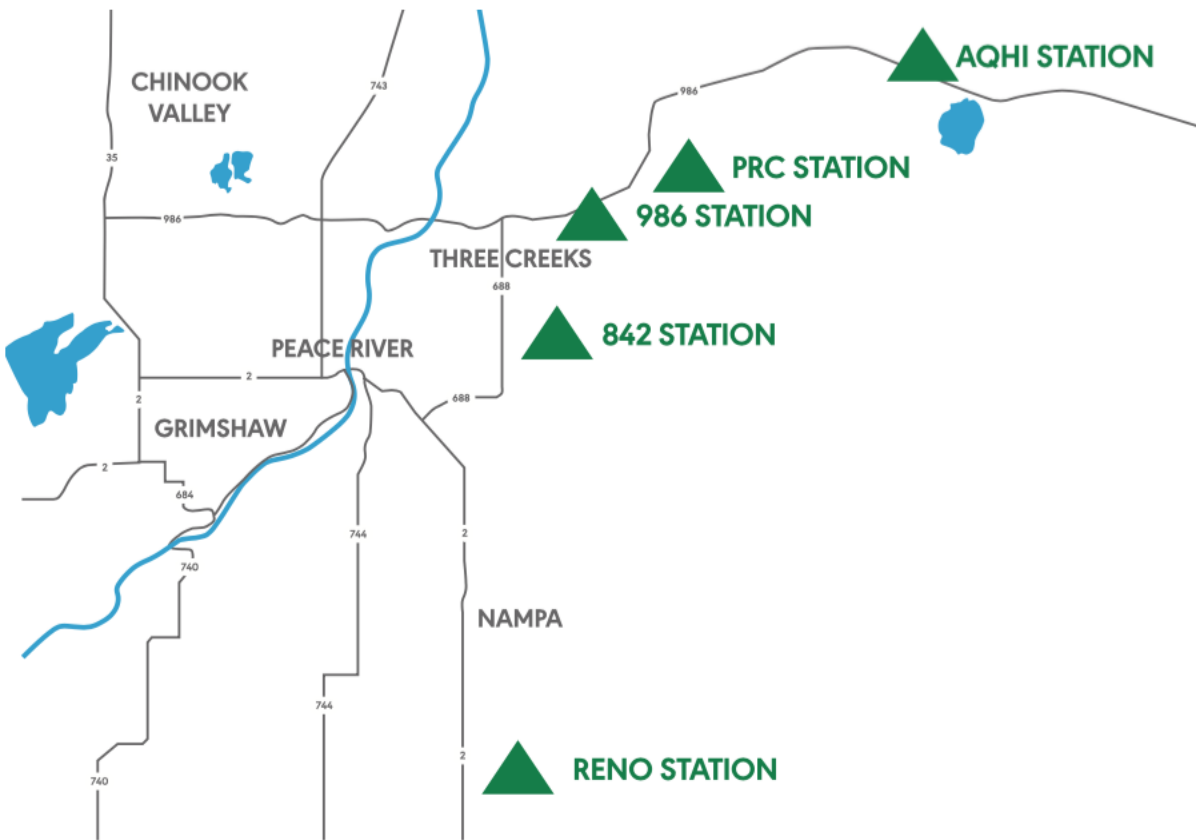
I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements. I also certify that at the time of this report's submission, all air data have been electronically uploaded to Alberta's Ambient Air Quality Data Warehouse as required by the AMD. Uploading of VOC data from the canister sampling program was not required at the time of completing this report.



Michael Bisaga, Technical Program Manager, PRAMP Airshed

March 19, 2021

Map of PRAMP Continuous Monitoring Network



CONTINUOUS NETWORK EQUIPMENT AND MONITORING RESULTS SUMMARY

986c Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO2	Thermo / 43iQTL	1193585646	
- A successful monthly calibration was performed on February 23. - No operational issues were identified this month.			
TRS	Thermo / 43iQTL	1191833341	
- A successful monthly calibration was performed on February 23. - No operational issues were identified this month.			
THC/CH4/NMHC	Thermo / 55i	1193585652	
- A successful monthly calibration was performed on February 23. - No operational issues were identified this month.			
Relative Humidity (RH)	Rotronic / HC2-S3	20357528	
- The RH sensor was checked on February 23. The sensor passed the check requirements. - No operational issues were identified this month.			
Barometric Pressure (BP)	MetOne / 092	Y23358	
- The BP sensor was checked on February 23. The sensor passed the check requirements. - No operational issues were identified this month.			
Ambient Temperature (AT)	Rotronic / HC2-S3	20357528	
- The AT sensor was checked on February 23. The sensor passed the check requirements. - No operational issues were identified this month.			

Parameter	Make / Model	Serial Number	
Station Temperature (ST)	Bureau Veritas Canada	N/A	
The station temperatures dropped below 20 degree Celsius on February 6. A portable heater was added at the station on February 7.			
Wind Speed/Wind Direction (WS/ WD)	RM Young / 05305L	174795	
- Wind direction data contained in this report represents where the wind is coming from. - The annual wind system calibration was completed on July 16, 2020. - The anemometer sensor was checked on February 23. The sensor passed the check requirements. - No operational issues were identified this month.			

Monitored Data Summary for 986c Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.1	0	2	February 14 at hour 14	10.7	W	0.7	February 14	100.0	94.8
TRS (ppb)	10	3	-	-	-	-	0.10	0.00	0.51	February 1 at hour 20	19.1	NNE	0.21	February 27	100.0	94.8
THC (ppm)	-	-	-	-	-	-	1.97	1.82	2.11	February 4 at hour 1	2.6	SE	2.04	February 17	100.0	94.9
CH4 (ppm)	-	-	-	-	-	-	1.97	1.82	2.11	February 4 at hour 1	2.6	SE	2.04	February 17	100.0	94.9
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.08	February 26 at hour 9	5.9	ENE	0.00	February 26	100.0	94.9
RH (%)	-	-	-	-	-	-	72.1	39	98	February 25 at hour 5	12.5	SSE	86.6	February 1	100.0	100.0
BP (millibar)	-	-	-	-	-	-	943	912	970	February 11 at hour 7	3.8	W	967	February 11	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-17.1	-37.6	7.2	February 21 at hour 14	35	WSW	3.6	February 21	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.7	15.1	24.9	February 23 at hour 12	7.3	NW	23.4	February 8	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	3.1	0.0	38.0	February 21 at hour 7	38	SW	28.4	February 21	100.0	100.0
WDV (sector)	-	-	-	-	-	-	237 (SW)	-	-	-	-	-	-	-	100.0	100.0

1- Date/ Time given is the first minimum and maximum value that was recorded

Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances at 986c Station

The measured ambient air quality was within the AAAQOs for all monitored parameters.

842b Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO2	Thermo / 43iQTL	1200736629	
- A successful monthly calibration was performed on February 3. - No operational issues were identified this month.			
TRS	Thermo 43i-TLE	1162460023	
- A successful monthly calibration was performed on February 3. - The analyzer failed the daily span check on February 19. A shut-down calibration that was performed on February 23 did not meet the AMD calibration check requirements as the slope was outside acceptance criteria. This failure was caused by low ambient temperatures and the related lack of moisture in the sample air. Extreme cold weather conditions have a known, detrimental effect on SO2 scrubber performance causing a delayed and reduced response in the analysis. Scrubber material was renewed, and a post-repair calibration was successfully completed afterwards on February 24. Data were invalidated back to the last valid calibration check, which was February 18. One hundred thirty-eight hours of downtime were recorded due to this event.			
THC/CH4/NMHC	Thermo / 55i	1501663728	
- A successful monthly calibration was performed on February 3. - No operational issues were identified this month.			
Relative Humidity (RH)	Rotronic / HC2-S3	20370767	
- The RH sensor was checked on February 3. The sensor passed the check requirements. - No operational issues were identified this month.			
Barometric Pressure (BP)	MetOne / 092	Y23362	
- The BP sensor was checked on February 3. The sensor passed the check requirements. - No operational issues were identified this month.			

Parameter	Make / Model	Serial Number	
Station Temperature (ST)	Bureau Veritas Canada	N/A	
No operational issues were identified this month.			
Ambient Temperature (AT)	Rotronic / HC2-S3	20370767	
- The AT sensor was checked on February 3. The sensor passed the check requirements. - No operational issues were identified this month.			
Precipitation (Precip)	RM Young / 5202	15878	
- The rain gauge was checked on February 3. The sensor passed the check requirements. - No operational issues were identified this month.			
Wind Speed/Wind Direction (WS/ WD)	RM Young / 05305AQ	174802	
- Wind direction data contained in this report represents where the wind is coming from. - The annual wind system calibration was completed on December 16, 2020. - The anemometer sensor was checked on February 3. The sensor passed the check requirements. - No operational issues were identified this month.			

Monitored Data Summary for 842b Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.1	0	2	February 19 at hour 5	14.7	SSW	0.5	February 14	100.0	95.1
TRS (ppb)	10	3	-	-	-	-	0.22	0.08	0.41	February 1 at hour 12	6.5	NNW	0.33	February 1	79.5	75.4
THC (ppm)	-	-	-	-	-	-	2.04	1.90	2.36	February 11 at hour 0	1.9	N	2.15	February 17	100.0	95.1
CH4 (ppm)	-	-	-	-	-	-	2.04	1.90	2.36	February 11 at hour 0	1.9	N	2.15	February 17	100.0	95.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.01	February 15 at hour 14	8.6	WNW	0.00	February 15	100.0	95.1
RH (%)	-	-	-	-	-	-	67.8	41	93	February 25 at hour 4	7.1	S	80.0	February 1	100.0	100.0
BP (millibar)	-	-	-	-	-	-	942	912	968	February 11 at hour 1	3.6	NW	966	February 11	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-17.3	-39.1	6.1	February 21 at hour 15	33.3	WSW	3.4	February 21	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.5	20.4	23.6	February 6 at hour 5	0.3	SSE	23.2	February 9	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	1.3	0.0	0.6	February 3 at hour 4	2.7	WNW	0.6	February 3	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	3.5	0.0	35.0	February 21 at hour 13	35	WSW	26.0	February 21	100.0	100.0
WDV (sector)	-	-	-	-	-	-	241 (WSW)	-	-	-	-	-	-	-	100.0	100.0

1- Date/ Time given is the first minimum and maximum value that was recorded

* Data represents the total (sum) for the indicated time frame

Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances at 842b Station

The measured ambient air quality was within the AAAQOs for all monitored parameters.

Reno Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO2	API / 100A	1502	
- A successful monthly calibration was performed on February 4. - No operational issues were identified this month.			
TRS	Thermo / 43i-TLE	1162460022	
- A successful monthly calibration was performed on February 4. - The analyzer failed the daily span check on February 8 and the as-found points check on February 9. Immediate corrective action was not practicable given the ongoing ambient conditions (low ambient temperatures and low humidity in the sample air). The analyzer passed the daily zero-span check when the ambient temperatures started recovering on February 14. Data were invalidated back to the last valid calibration check, which was February 7. One hundred sixty hours data collected between February 7 and February 14 were discarded due to this event. - The analyzer failed the daily span check again on February 19 and the repeat zero-span check on February 20. A successful shut-down calibration was completed on February 23 before maintenance was undertaken on the analyzer. A post-repair calibration was successfully completed on February 24. As the analyzer passed the February 23's shut-down calibration, data collected between February 19 and 23 were considered valid. No data were discarded. However, twenty-three hours of downtime were recorded due to maintenance and additional quality checks.			
THC/CH4/NMHC	Thermo / 55i	1505664392	
- A successful monthly calibration was performed on February 4. - The analyzer malfunctioned on February 7 due to the sample pump failure. The sample pump was replaced followed by a successful post-repair calibration on February 8. Forty-two hours of downtime were recorded due to this event.			

Parameter	Make / Model	Serial Number	
Relative Humidity (RH)	RM Young / 43172VC	60837897	
- The RH sensor was checked on February 4. The sensor passed the check requirements. - No operational issues were identified this month.			
Barometric Pressure (BP)	MetOne / 092	R12877	
- The BP sensor was checked on February 4. The sensor passed the check requirements. - No operational issues were identified this month.			
Ambient Temperature (AT)	RM Young / 43172VC	60837897	
- The AT sensor was checked on February 4. The sensor passed the check requirements. - No operational issues were identified this month.			
Station Temperature (ST)	Bureau Veritas Canada	N/A	
The station temperatures dropped below 20 degree Celsius on February 6. A portable heater was added at the station on February 7.			
Precipitation (Precip)	RM Young / 5202	TB15877	
- The rain gauge sensor was checked on February 4. The sensor passed the check requirements. - Incorrect s/n of the rain gauge system was included in the monthly reports and calibration reports since the system was installed in October 2020. The correct s/n of the system is TB15877.			
Wind Speed/Wind Direction (WS/ WD)	RM Young / 5305VK	149769	
- Wind direction data contained in this report represents where the wind is coming from. - The annual wind system calibration was completed on June 17, 2020. - The anemometer was checked on February 4. The system passed the check requirements. - No operational issues were identified this month.			

Monitored Data Summary for Reno Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.4	0	2	February 16 at hour 4	2.8	NNW	1.2	February 21	100.0	94.8
TRS (ppb)	10	3	-	-	-	-	0.17	0.00	2.38	February 25 at hour 7	6.6	SSE	0.55	February 25	72.8	68.6
THC (ppm)	-	-	-	-	-	-	1.92	1.83	4.39	February 17 at hour 20	3.2	SSW	2.13	February 17	93.8	89.0
CH4 (ppm)	-	-	-	-	-	-	1.92	1.83	4.37	February 17 at hour 20	3.2	SSW	2.13	February 17	93.8	89.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.03	February 17 at hour 20	3.2	SSW	0.00	February 17	93.8	89.0
RH (%)	-	-	-	-	-	-	61.9	40	96	February 25 at hour 6	6.4	SSE	80.5	February 28	100.0	100.0
BP (millibar)	-	-	-	-	-	-	939	911	965	February 11 at hour 6	3.1	W	963	February 11	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-17.2	-37.0	5.4	February 21 at hour 13	20.4	WSW	2.9	February 21	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.3	16.4	24.8	February 21 at hour 14	17.1	SW	24.0	February 23	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	2.1	0.0	0.4	February 25 at hour 5	4.4	SSE	0.8	February 25	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	2.5	0.1	20.4	February 21 at hour 13	20.4	WSW	14.3	February 21	100.0	100.0
WDV (sector)	-	-	-	-	-	-	247 (WSW)	-	-	-	-	-	-	-	100.0	100.0

1- Date/ Time given is the first minimum and maximum value that was recorded

* Data represents the total (sum) for the indicated time frame

Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances at Reno Station

The measured ambient air quality was within the AAAQOs for all monitored parameters.

AQHI – Cadotte Lake Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO ₂	Teledyne / T100	722	
- A successful monthly calibration was performed on February 24. - No operational issues were identified this month.			
TRS	Thermo 43i-TLE	1152940011	
- A successful monthly calibration was performed on February 24. - No operational issues were identified this month.			
NO _x /NO/NO ₂	Teledyne / T200	837	
- A successful monthly calibration was performed on February 24. - No operational issues were identified this month.			
O ₃	Teledyne / T400	824	
- A successful monthly calibration was performed on February 24. - No operational issues were identified this month.			
THC/CH ₄ /NMHC	Thermo / 55i	1191032505	
- A successful monthly calibration was performed on February 24. - No operational issues were identified this month.			
PM 2.5	Teledyne / T640	318	
- A successful monthly calibration was performed on February 24. - No operational issues were identified this month.			

Parameter	Make / Model	Serial Number	
Relative Humidity (RH)	Vaisala / HMP155	N2910506	
- The RH sensor was checked on February 24. The sensor passed the check requirements. - No operational issues were identified this month.			
Ambient Temperature (AT)	Vaisala / HMP155	N2910506	
- The AT sensor was checked on February 24. The sensor passed the check requirements. - No operational issues were identified this month.			
Station Temperature (ST)	Bureau Veritas Canada	N/A	
No operational issues were identified this month.			
Wind Speed/Wind Direction (WS/ WD)	RM Young 05305AQ	174801	
- Wind direction data contained in this report represents where the wind is coming from. - The annual wind system calibration was completed on June 18, 2020. - The anemometer sensors were checked on February 24. The sensor passed the check requirements. - No operational issues were identified this month.			

Monitored Data Summary for AQHI - Cadotte Lake Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	1	February 14 at hour 11	13.3	ESE	0.2	February 15	100.0	94.9
TRS (ppb)	10	3	-	-	-	-	0.49	0.34	2.92	February 18 at hour 8	0.5	NNE	1.10	February 18	100.0	94.8
NOx (ppb)	-	-	-	-	-	-	1.8	0	22	February 13 at hour 9	1.8	ESE	5.6	February 18	100.0	94.6
NO (ppb)	-	-	-	-	-	-	0.4	0	14	February 18 at hour 10	1.7	E	1.8	February 18	100.0	94.6
NO2 (ppb)	159	-	-	0	-	-	1.4	0	15	February 16 at hour 14	6.1	W	3.7	February 18	100.0	94.6
O3 (ppb)	76	-	-	0	-	-	26.8	6	45	February 22 at hour 10	9.6	W	41.3	February 21	100.0	95.2
THC (ppm)	-	-	-	-	-	-	1.96	1.86	2.22	February 17 at hour 23	0.3	NNW	2.06	February 1	100.0	95.2
CH4 (ppm)	-	-	-	-	-	-	1.96	1.86	2.14	February 1 at hour 2	1.5	WSW	2.06	February 1	100.0	95.2
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.18	February 17 at hour 23	0.3	NNW	0.01	February 17	100.0	95.2
PM2.5 (µg/m3)	80	30	-	0	0	-	3.0	0.1	15.8	February 1 at hour 0	3.8	ESE	10.5	February 1	100.0	99.9
RH (%)	-	-	-	-	-	-	69.5	35	94	February 25 at hour 6	4.6	ESE	79.2	February 1	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-17.8	-43.6	7.9	February 21 at hour 15	29.5	WSW	3.9	February 21	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	23.0	20.7	25.4	February 7 at hour 8	0.3	W	23.4	February 8	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	2.2	0.0	29.5	February 21 at hour 15	29.5	WSW	17.8	February 21	100.0	100.0
WDV (sector)	-	-	-	-	-	-	269 (W)	-	-	-	-	-	-	-	100.0	100.0

1- Date/ Time given is the first minimum and maximum value that was recorded

Alberta Ambient Air Quality Objectives (AAAQOs) Exceedances at AQHI - Cadotte Lake Station

The measured ambient air quality was within the AAAQOs for all monitored parameters.

TABLES, CHARTS, WIND ROSES AND EQUIPMENT CALIBRATION RECORDS

986c STATION



PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2021

Summary of Hourly Averages

SULPHUR DIOXIDE (SO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

Number of 1-Hour Exceedances: 0 Number of 24-Hour Exceedances: 0 30-Day Exceedance: 0

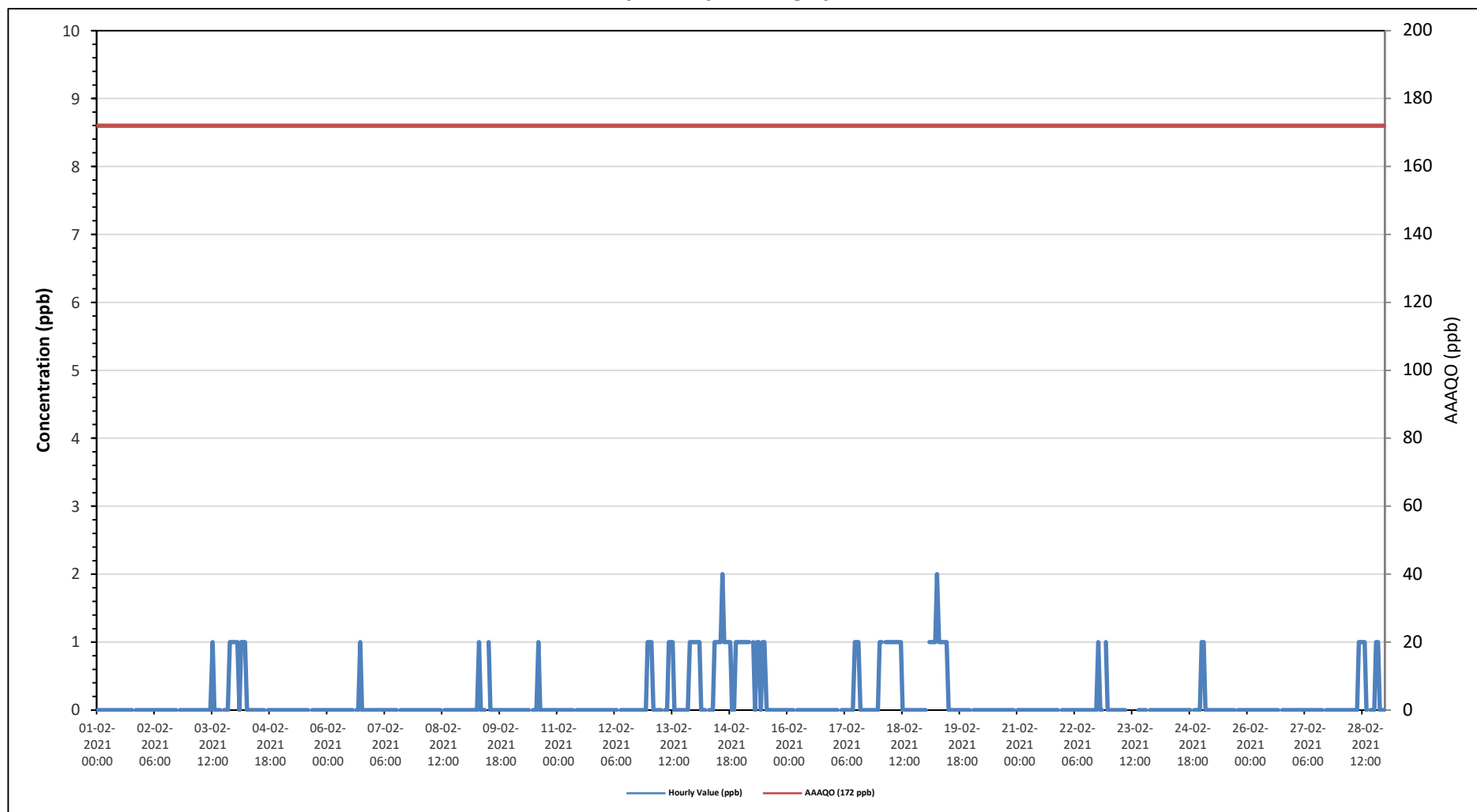
Maximum Hourly Value:	2 ppb on February 14 at hour 14	Hours in Service:	672
Maximum Daily Value:	0.7 ppb on February 14	Hours of Data:	637
Minimum Hourly Value:	0 ppb on February 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0 ppb on February 1	Hours of Calibration:	35
Monthly Average:	0.1 ppb	Operational Uptime:	100.0

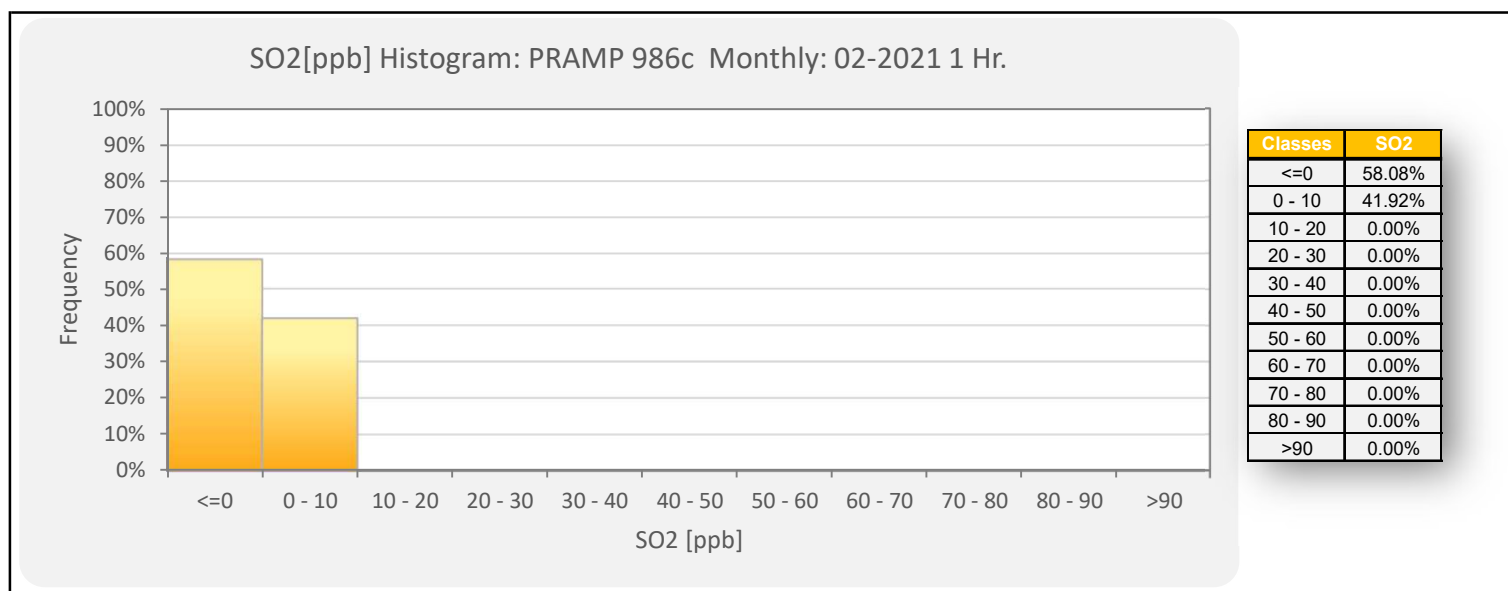
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
Feb 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0.0
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Feb 3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	0	0	0	1	1	1	1	0.2
Feb 4	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0.2
Feb 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0.0
Feb 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	0	0	0	0	0	0	0	0.0
Feb 7	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 8	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 9	0	0	0	0	0	0	0	1	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1
Feb 10	0	0	0	0	0	0	0	0	0	0	S	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0.0
Feb 11	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 12	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.0
Feb 13	1	1	0	0	0	0	0	S	0	0	1	1	1	0	0	0	0	0	0	0	0	1	1	1	0	0.3
Feb 14	1	1	1	0	0	0	S	0	0	1	1	1	1	1	2	1	1	1	1	0	0	1	1	1	0	0.7
Feb 15	1	1	1	1	1	S	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4
Feb 16	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 17	0	0	0	S	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.1
Feb 18	1	1	S	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
Feb 19	0	S	1	1	1	1	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
Feb 20	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0.0
Feb 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0.0
Feb 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	S	1	0	0	0.1
Feb 23	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	0	0	0	0	0	S	0	0	0	0	-
Feb 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0.0
Feb 25	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.1
Feb 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0.0
Feb 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0.0
Feb 28	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	S	0	0	0	1	1	0	0	0	0	0.3
Diurnal Maximum	1	1	1	1	1	1	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	
Diurnal Average	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.1		

C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

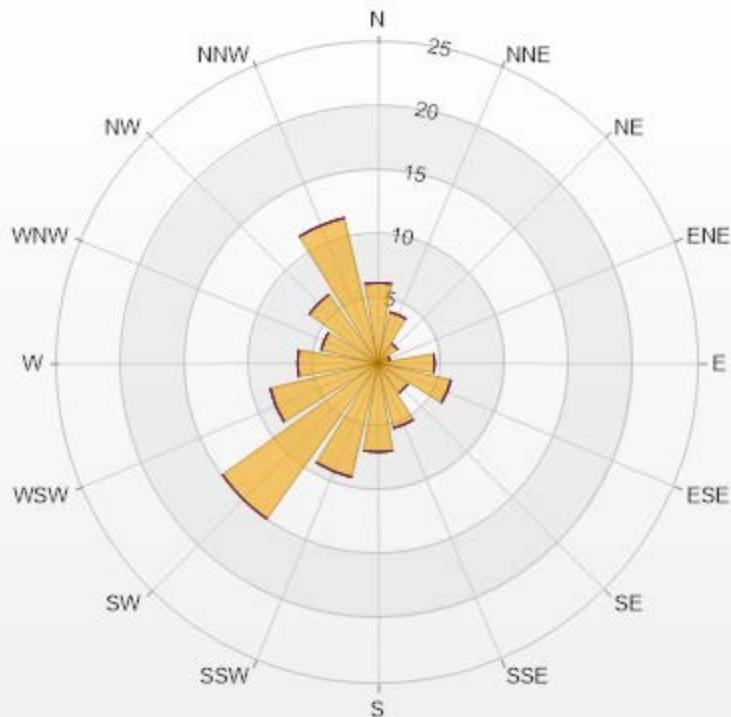
Timeseries Chart of Hourly Average for SO₂ - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-SO2[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.79% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	6.28	0	0	0	0	6.28
NNE	4.08	0	0	0	0	4.08
NE	1.88	0	0	0	0	1.88
ENE	0.94	0	0	0	0	0.94
E	4.4	0	0	0	0	4.4
ESE	5.81	0	0	0	0	5.81
SE	2.83	0	0	0	0	2.83
SSE	5.18	0	0	0	0	5.18
S	6.91	0	0	0	0	6.91
SSW	9.11	0	0	0	0	9.11
SW	14.91	0	0	0	0	14.91
WSW	8.63	0	0	0	0	8.63
W	6.28	0	0	0	0	6.28
WNW	4.55	0	0	0	0	4.55
NW	6.59	0	0	0	0	6.59
NNW	11.62	0	0	0	0	11.62
Summary	100	0	0	0	0	100



PRAMP-202102

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% Icon Classes (ppb)

100 0-10

0 10-50

0 50-100

0 100-172

0 >172.0



PEACE RIVER AREA MONITORING PROGRAM

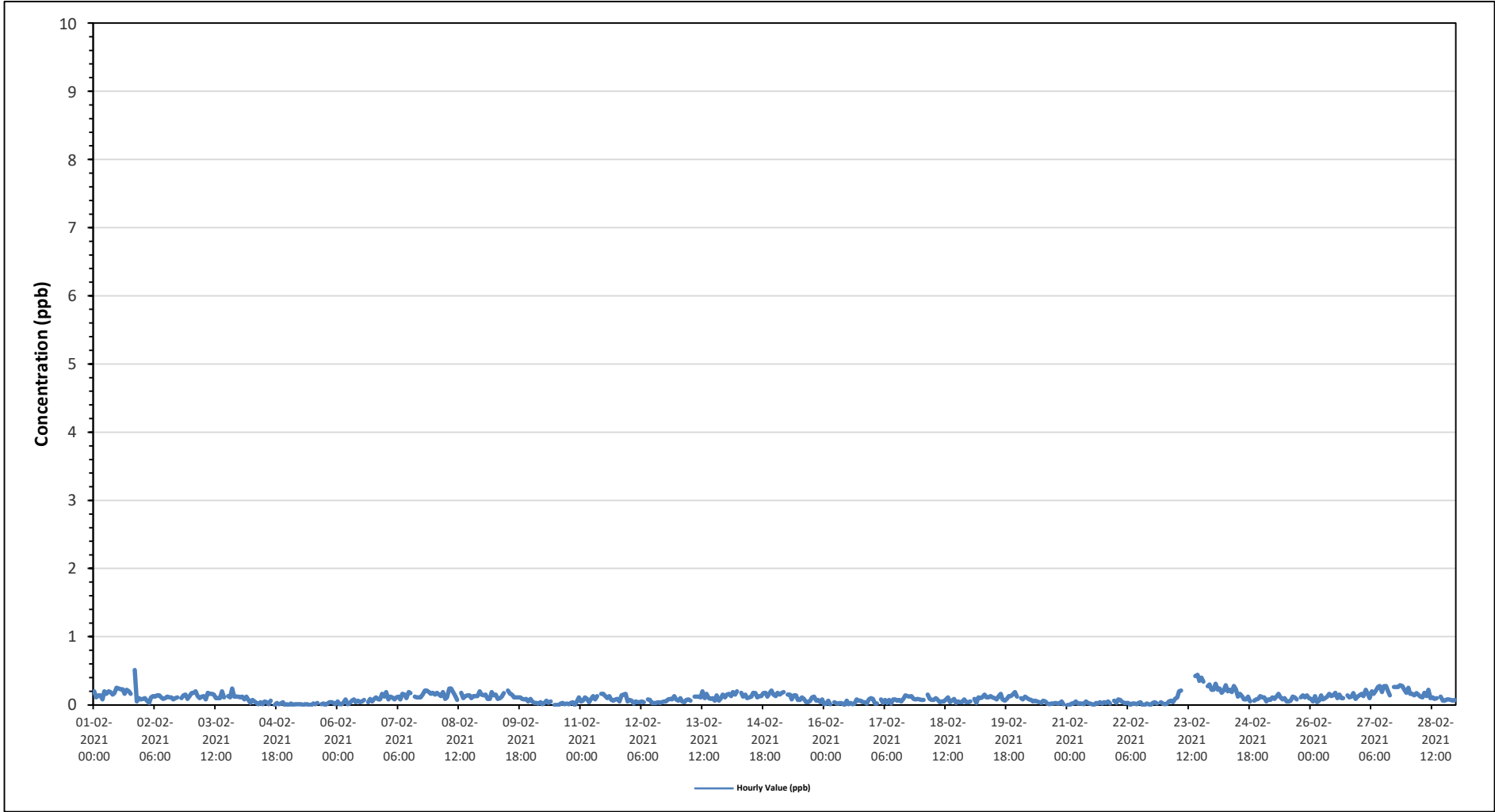
986c Station - February 2021

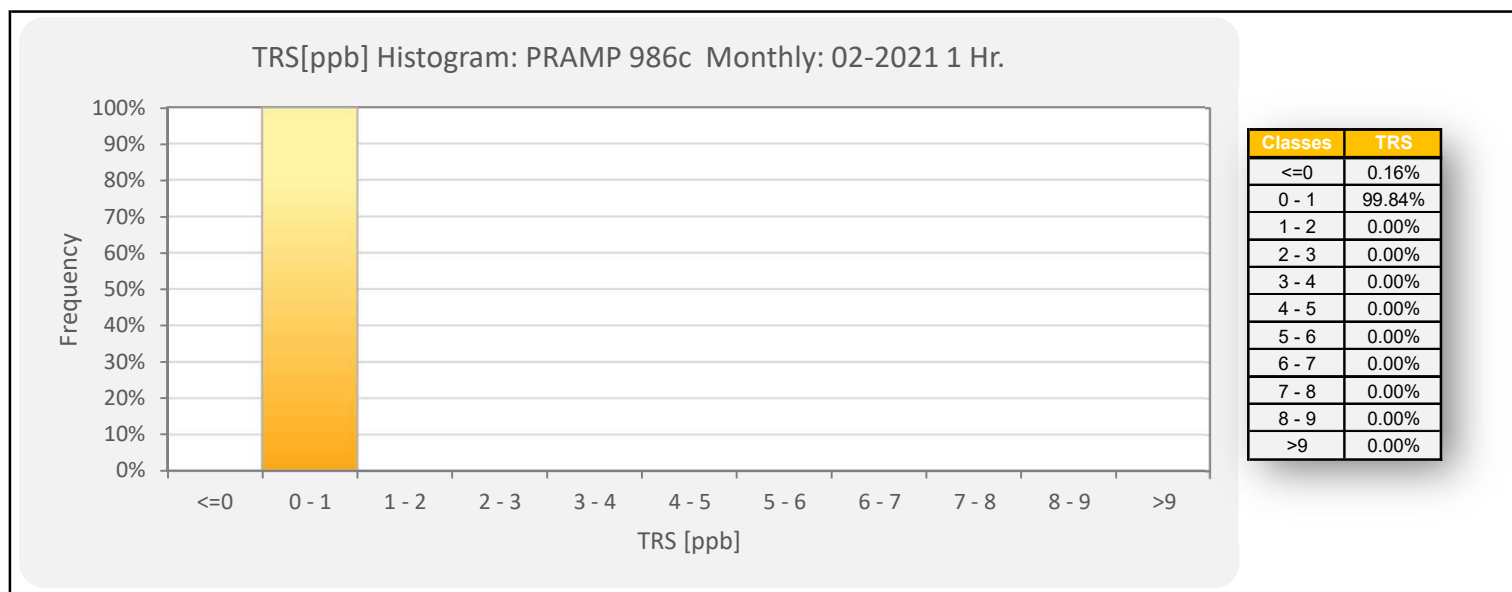
Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Alberta Ambient Air Quality Objectives (AAAQO) for H2S: 1-Hour 10 ppb, 24-Hour 3 ppb																													
Number of 1-Hour Exceedances: 0														Number of 24-Hour Exceedances: 0															
Maximum Hourly Value: 0.51 ppb on February 1 at hour 20														Hours in Service: 672															
Maximum Daily Value: 0.21 ppb on February 27														Hours of Data: 637															
Minimum Hourly Value: 0.00 ppb on February 4 at hour 17														Hours of Missing Data: 0															
Minimum Daily Value: 0.01 ppb on February 5														Hours of Calibration: 35															
Monthly Average: 0.10 ppb														Operational Uptime: 100.0															
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
Feb 1	0.2	0.11	0.14	0.14	0.08	0.2	0.16	0.2	0.19	0.15	0.17	0.25	0.24	0.23	0.23	0.16	0.22	0.2	0.16	S	0.51	0.05	0.1	0.08	0.05	0.51	0.18		
Feb 2	0.09	0.1	0.06	0.03	0.11	0.13	0.12	0.14	0.14	0.11	0.09	0.1	0.12	0.11	0.11	0.08	0.1	0.11	S	0.1	0.14	0.15	0.09	0.13	0.03	0.15	0.11		
Feb 3	0.17	0.18	0.2	0.13	0.1	0.12	0.13	0.08	0.18	0.16	0.16	0.15	0.1	0.1	0.1	0.2	0.11	S	0.13	0.11	0.24	0.12	0.12	0.12	0.08	0.24	0.14		
Feb 4	0.11	0.12	0.08	0.12	0.07	0.03	0.07	0.05	0.03	0.01	0.04	0.01	0.05	0.04	0.01	0.06	S	0	0.03	0.01	0.02	0.04	0	0.01	0.00	0.12	0.04		
Feb 5	0	0.02	0	0.01	0.01	0.01	0.01	0	0.01	0.01	0	0	0.02	0.01	0.03	S	0.01	0.02	0	0.02	0.04	0.04	0.03	0.01	0.00	0.04	0.01		
Feb 6	0.05	0.01	0.01	0.04	0.08	0.01	0.03	0.06	0.08	0.04	0.06	0.04	0.05	0.07	S	0.04	0.09	0.05	0.09	0.11	0.08	0.08	0.16	0.12	0.01	0.16	0.06		
Feb 7	0.19	0.08	0.12	0.11	0.08	0.11	0.12	0.08	0.16	0.15	0.1	0.19	0.17	S	0.12	0.11	0.11	0.11	0.15	0.21	0.21	0.19	0.16	0.18	0.08	0.21	0.14		
Feb 8	0.15	0.18	0.15	0.13	0.19	0.09	0.11	0.24	0.24	0.19	0.13	0.07	S	0.18	0.1	0.13	0.14	0.14	0.1	0.13	0.13	0.13	0.2	0.15	0.07	0.24	0.15		
Feb 9	0.14	0.15	0.09	0.09	0.19	0.14	0.15	0.09	0.1	0.12	0.17	S	0.21	0.16	0.15	0.11	0.11	0.11	0.11	0.09	0.08	0.09	0.05	0.09	0.05	0.21	0.12		
Feb 10	0.05	0.03	0.03	0.02	0.04	0.01	0.03	0.06	0.03	0.05	S	0	0	0	0.02	0.03	0.01	0.02	0.01	0.03	0.04	0	0.05	0.11	0.00	0.11	0.03		
Feb 11	0.05	0.06	0.11	0.09	0.04	0.09	0.13	0.08	0.13	S	0.16	0.16	0.13	0.1	0.13	0.07	0.06	0.08	0.09	0.05	0.14	0.15	0.16	0.05	0.04	0.16	0.10		
Feb 12	0.07	0.06	0.02	0.05	0.04	0.04	0.05	0.04	S	0.08	0.07	0.03	0.03	0.03	0.04	0.03	0.04	0.05	0.05	0.08	0.09	0.08	0.13	0.08	0.02	0.13	0.06		
Feb 13	0.06	0.1	0.05	0.04	0.07	0.08	0.06	S	0.12	0.12	0.12	0.11	0.2	0.1	0.16	0.1	0.09	0.1	0.06	0.14	0.06	0.1	0.15	0.11	0.04	0.20	0.10		
Feb 14	0.15	0.16	0.13	0.19	0.15	0.2	S	0.18	0.12	0.15	0.1	0.11	0.12	0.18	0.17	0.11	0.13	0.13	0.17	0.18	0.12	0.17	0.21	0.15	0.10	0.21	0.15		
Feb 15	0.13	0.18	0.15	0.17	0.19	S	0.15	0.15	0.08	0.14	0.14	0.07	0.07	0.11	0.09	0.04	0.04	0.06	0.11	0.12	0.06	0.07	0.04	0.08	0.04	0.19	0.11		
Feb 16	0.01	0.02	0.06	0.01	S	0.04	0.02	0.02	0.03	0.02	0	0.06	0.01	0.03	0.01	0.02	0.08	0.06	0.06	0.04	0.04	0.02	0.08	0.1	0.00	0.10	0.04		
Feb 17	0.09	0.02	0.02	S	0.08	0.03	0.07	0.03	0.07	0.02	0.08	0.08	0.06	0.07	0.05	0.09	0.14	0.13	0.12	0.13	0.09	0.08	0.09	0.08	0.02	0.14	0.07		
Feb 18	0.07	0.07	S	0.15	0.09	0.07	0.07	0.1	0.07	0.04	0.05	0.05	0.08	0.11	0.04	0.06	0.09	0.03	0.05	0.04	0.04	0.08	0.04	0.04	0.03	0.15	0.07		
Feb 19	0.05	S	0.09	0.03	0.11	0.1	0.11	0.15	0.11	0.11	0.13	0.11	0.1	0.08	0.13	0.16	0.08	0.06	0.09	0.13	0.13	0.15	0.19	0.12	0.03	0.19	0.11		
Feb 20	S	0.1	0.08	0.12	0.1	0.08	0.07	0.05	0.06	0.05	0.04	0.03	0.06	0.05	0.02	0.01	0.02	0.02	0.03	0.02	0.02	0.05	0.01	S	0.01	0.12	0.05		
Feb 21	0	0	0.02	0.02	0.05	0.02	0.02	0.02	0.01	0.05	0.03	0.02	0.01	0	0.03	0.02	0.04	0.02	0.04	0.03	0.05	0.02	S	0.06	0.00	0.06	0.03		
Feb 22	0.03	0.08	0.07	0.04	0.03	0.03	0.03	0	0.02	0.02	0.01	0.03	0.04	0	0	0.02	0.01	0	0.03	0.04	0.02	S	0.04	0.02	0.00	0.08	0.03		
Feb 23	0.01	0.02	0.05	0.06	0.04	0.09	0.11	0.2	0.21	C	C	C	C	C	C	0.42	0.44	0.35	0.4	0.34	S	0.27	0.3	0.22	0.01	0.44	-		
Feb 24	0.22	0.31	0.22	0.24	0.18	0.21	0.29	0.2	0.22	0.19	0.28	0.23	0.12	0.16	0.13	0.08	0.08	0.12	0.05	S	0.06	0.08	0.09	0.13	0.05	0.31	0.17		
Feb 25	0.11	0.11	0.05	0.08	0.07	0.11	0.09	0.12	0.16	0.11	0.08	0.1	0.05	0.05	0.06	0.12	0.11	0.08	S	0.11	0.14	0.11	0.14	0.1	0.05	0.16	0.10		
Feb 26	0.09	0.05	0.13	0.04	0.06	0.14	0.08	0.1	0.12	0.16	0.13	0.14	0.18	0.1	0.15	0.1	0.1	S	0.14	0.11	0.12	0.17	0.09	0.12	0.04	0.18	0.11		
Feb 27	0.14	0.16	0.13	0.22	0.16	0.1	0.2	0.16	0.21	0.26	0.28	0.19	0.27	0.28	0.2	0.14	S	0.26	0.26	0.26	0.29	0.28	0.23	0.18	0.10	0.29	0.21		
Feb 28	0.25	0.16	0.16	0.14	0.17	0.15	0.12	0.11	0.18	0.13	0.22	0.1	0.11	0.09	0.1	S	0.12	0.06	0.06	0.08	0.08	0.07	0.06	0.07	0.06	0.25	0.12		
Diurnal Maximum	0.25	0.31	0.22	0.24	0.19	0.21	0.29	0.24	0.24	0.26	0.28	0.25	0.27	0.28	0.23	0.42	0.44	0.35	0.40	0.34	0.51	0.28	0.30	0.22					
Diurnal Average	0.10	0.10	0.09	0.09	0.10	0.09	0.10	0.10	0.11	0.10	0.11	0.09	0.10	0.09	0.09	0.10	0.10	0.09	0.10	0.10	0.11	0.11	0.11	0.10					
C	Monthly Calibration								S	Daily Zero-Span Check								Q	Quality Assurance										
K	Collection Error								N	No Data (Machine Not in Service)								Y	Routine Maintenance								P	Power Failure	
X	InValid Data (Equipment Malfunction/Recovery)								NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																													

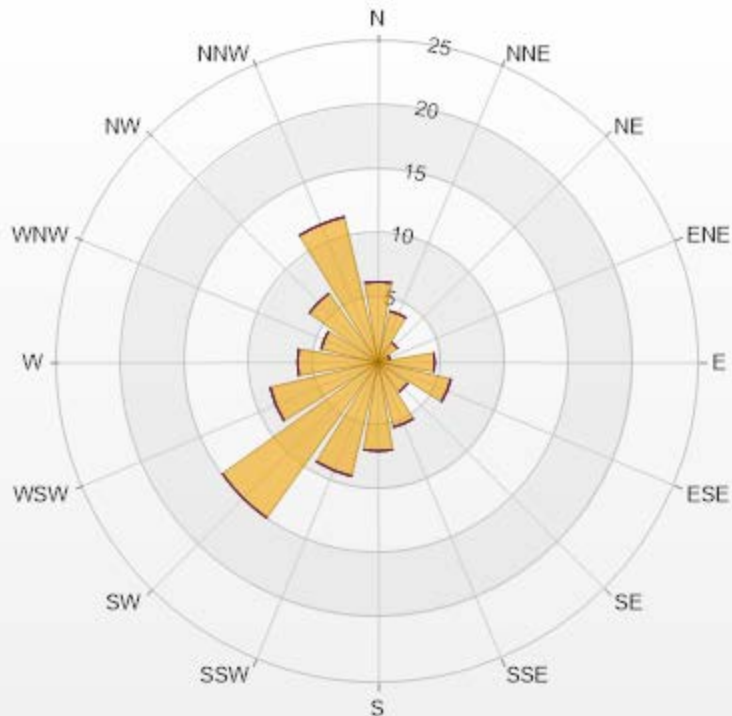
Timeseries Chart of Hourly Average for TRS - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-TRS[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.79% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	6.28	0	0	0	0	6.28
NNE	4.08	0	0	0	0	4.08
NE	1.88	0	0	0	0	1.88
ENE	0.94	0	0	0	0	0.94
E	4.4	0	0	0	0	4.4
ESE	5.81	0	0	0	0	5.81
SE	2.83	0	0	0	0	2.83
SSE	5.18	0	0	0	0	5.18
S	6.91	0	0	0	0	6.91
SSW	9.11	0	0	0	0	9.11
SW	14.91	0	0	0	0	14.91
WSW	8.63	0	0	0	0	8.63
W	6.28	0	0	0	0	6.28
WNW	4.55	0	0	0	0	4.55
NW	6.59	0	0	0	0	6.59
NNW	11.62	0	0	0	0	11.62
Summary	100	0	0	0	0	100



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% Icon Classes (ppb)

100 0-2

0 2-5

0 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

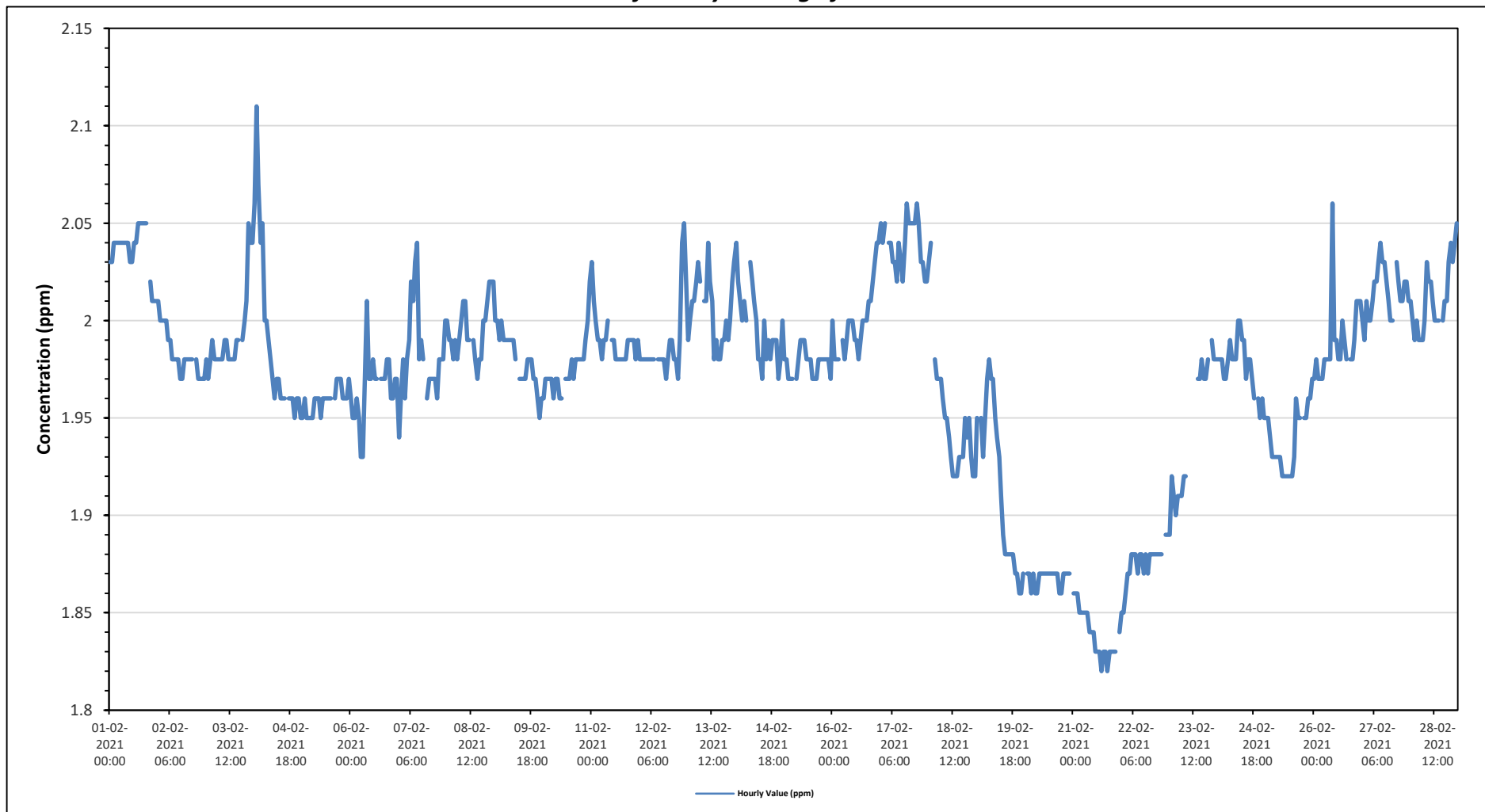
986c Station - February 2021

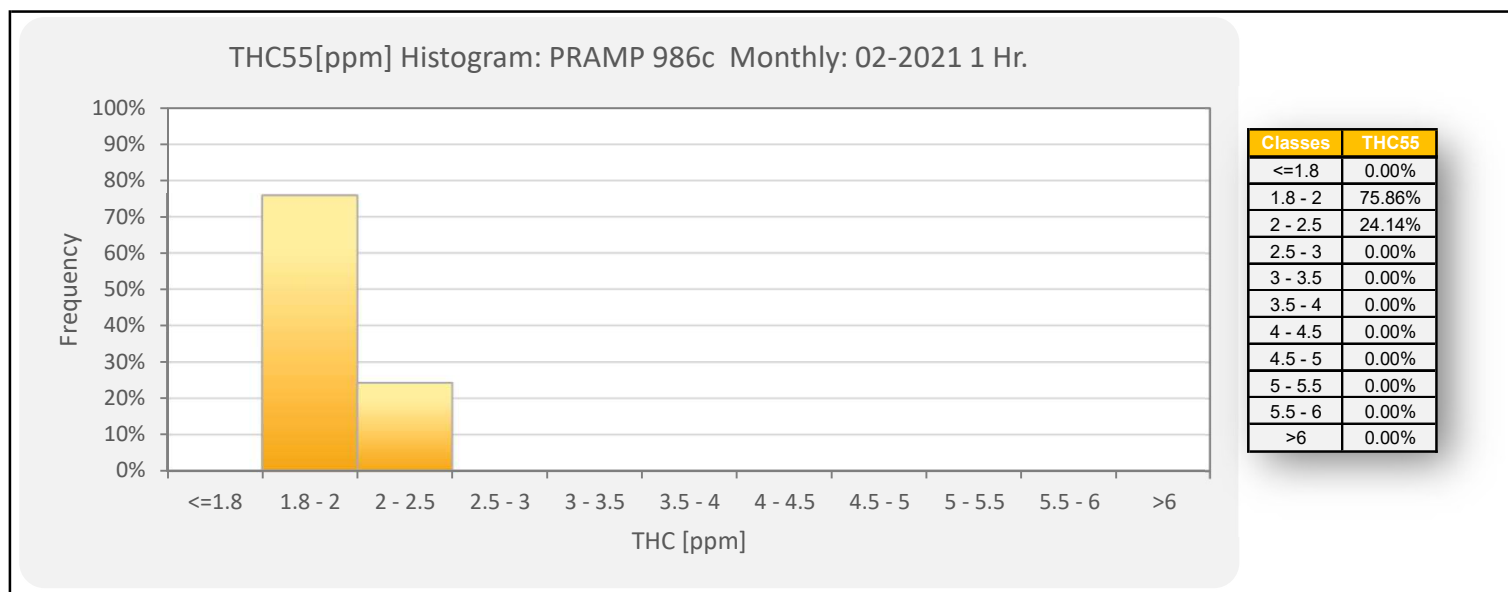
Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

Maximum Hourly Value: 2.11 ppm on February 4 at hour 1										Hours in Service: 672																	
Maximum Daily Value: 2.04 ppm on February 17										Hours of Data: 638																	
Minimum Hourly Value: 1.82 ppm on February 21 at hour 14										Hours of Missing Data: 0																	
Minimum Daily Value: 1.84 ppm on February 21										Hours of Calibration: 34																	
Monthly Average: 1.97 ppm										Operational Uptime: 100.0																	
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.04	2.04	2.05	2.05	2.05	2.05	2.05	S	2.02	2.01	2.01	2.01	2.01	2.05	2.04
Feb 2	2.01	2.00	2.00	2.00	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.98	1.98	1.98	1.98	1.98	S	1.98	1.97	1.97	1.97	1.97	1.97	2.01	1.98
Feb 3	1.98	1.97	1.98	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.98	1.98	1.98	1.98	1.99	1.99	S	1.99	2.00	2.01	2.05	2.04	2.04	2.05	1.99	
Feb 4	2.06	2.11	2.07	2.04	2.05	2.00	2.00	1.99	1.98	1.97	1.96	1.97	1.97	1.96	1.96	1.96	S	1.96	1.96	1.96	1.95	1.96	1.96	1.95	1.95	2.11	1.99
Feb 5	1.95	1.96	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.96	S	1.96	1.97	1.97	1.97	1.96	1.96	1.96	1.97	1.95	1.97	1.96
Feb 6	1.96	1.95	1.95	1.96	1.95	1.93	1.93	1.97	2.01	1.97	1.97	1.98	1.97	S	1.97	1.97	1.97	1.97	1.98	1.98	1.96	1.96	1.97	1.97	1.93	2.01	1.97
Feb 7	1.94	1.96	1.98	1.96	1.98	1.99	2.02	2.01	2.03	2.04	1.98	1.99	1.98	S	1.96	1.97	1.97	1.97	1.97	1.96	1.98	1.98	1.98	2.00	1.94	2.04	1.98
Feb 8	2.00	1.99	1.99	1.98	1.99	1.98	1.99	2.00	2.01	2.01	1.99	1.99	S	1.99	1.98	1.97	1.98	1.98	2.00	2.00	2.01	2.02	2.02	2.02	1.97	2.02	2.00
Feb 9	2.00	2.00	1.99	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.98	S	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.97	1.97	1.96	1.95	1.96	1.95	2.00	1.98
Feb 10	1.96	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.96	1.96	S	1.97	1.97	1.97	1.98	1.97	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.02	1.96	2.02	1.98
Feb 11	2.03	2.01	2.00	1.99	1.99	1.98	1.99	1.99	2.00	S	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.99	1.98	1.99	1.98	2.03	1.99
Feb 12	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	S	1.98	1.98	1.98	1.98	1.97	1.98	1.99	1.99	1.98	1.98	1.97	1.99	2.04	2.05	2.02	1.97	2.05	1.99
Feb 13	1.99	2.00	2.01	2.01	2.02	2.03	2.02	S	2.01	2.01	2.04	2.02	2.01	1.98	1.99	1.98	1.98	1.99	1.99	2.00	1.99	2.00	2.02	2.03	1.98	2.04	2.01
Feb 14	2.04	2.02	2.01	2.00	2.01	2.00	S	2.03	2.02	2.01	2.00	1.98	1.98	1.97	2.00	1.98	1.99	1.98	1.99	1.99	1.99	1.97	1.98	2.00	1.97	2.04	2.00
Feb 15	1.98	1.98	1.97	1.97	1.97	S	1.97	1.98	1.99	1.99	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.99	1.98
Feb 16	2.00	1.98	1.98	1.98	S	1.99	1.98	1.99	2.00	2.00	2.00	1.99	1.99	1.98	1.99	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.04	2.04	1.98	2.04	2.00
Feb 17	2.05	2.04	2.05	S	2.04	2.04	2.03	2.03	2.02	2.04	2.03	2.02	2.04	2.06	2.05	2.05	2.05	2.05	2.06	2.05	2.03	2.03	2.02	2.02	2.02	2.06	2.04
Feb 18	2.03	2.04	S	1.98	1.97	1.97	1.97	1.96	1.95	1.95	1.94	1.93	1.92	1.92	1.92	1.93	1.93	1.93	1.95	1.94	1.95	1.93	1.92	1.92	1.92	2.04	1.95
Feb 19	1.95	S	1.95	1.93	1.95	1.97	1.98	1.97	1.97	1.95	1.94	1.93	1.91	1.89	1.88	1.88	1.88	1.88	1.88	1.87	1.87	1.86	1.86	1.87	1.86	1.98	1.91
Feb 20	S	1.87	1.87	1.86	1.87	1.86	1.86	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.87	1.87	1.87	S	1.86	1.87	1.87	
Feb 21	1.86	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.84	1.84	1.84	1.83	1.83	1.83	1.82	1.83	1.83	1.82	1.83	1.83	1.83	1.83	S	1.84	1.82	1.86	1.84
Feb 22	1.85	1.85	1.86	1.87	1.87	1.88	1.88	1.88	1.87	1.88	1.88	1.87	1.88	1.87	1.88	1.88	1.88	1.88	1.88	1.88	1.88	S	1.89	1.89	1.85	1.89	1.88
Feb 23	1.89	1.92	1.91	1.90	1.91	1.91	1.91	1.92	1.92	C	C	C	C	C	1.97	1.97	1.98	1.97	1.97	1.98	S	1.99	1.98	1.98	1.89	1.99	1.94
Feb 24	1.98	1.98	1.98	1.97	1.97	1.98	1.99	1.98	1.98	1.98	2.00	2.00	1.99	1.99	1.97	1.98	1.98	1.97	1.96	S	1.96	1.95	1.96	1.95	1.95	2.00	1.98
Feb 25	1.95	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.93	1.96	1.95	1.95	S	1.95	1.95	1.96	1.96	1.97	1.92	1.97	1.94
Feb 26	1.97	1.98	1.97	1.97	1.97	1.98	1.98	1.98	1.98	2.06	1.99	1.99	1.98	1.98	2.00	1.99	1.98	S	1.98	1.98	1.99	2.01	2.01	2.01	1.97	2.06	1.99
Feb 27	2.00	1.99	2.01	2.00	2.00	2.01	2.02	2.02	2.03	2.04	2.03	2.03	2.02	2.01	2.00	2.00	S	2.03	2.02	2.01	2.01	2.02	2.02	2.01	1.99	2.04	2.01
Feb 28	2.01	2.00	1.99	2.00	1.99	1.99	1.99	2.00	2.03	2.02	2.02	2.01	2.00	2.00	2.00	S	2.00	2.01	2.01	2.03	2.04	2.03	2.04	2.05	1.99	2.05	2.01
Diurnal Maximum	2.06	2.11	2.07	2.04	2.05	2.04	2.04	2.04	2.04	2.06	2.04	2.03	2.04	2.06	2.05	2.05	2.05	2.06	2.05	2.04	2.05	2.05	2.05	2.05	2.05	2.05	2.05
Diurnal Average	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance										
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure		
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

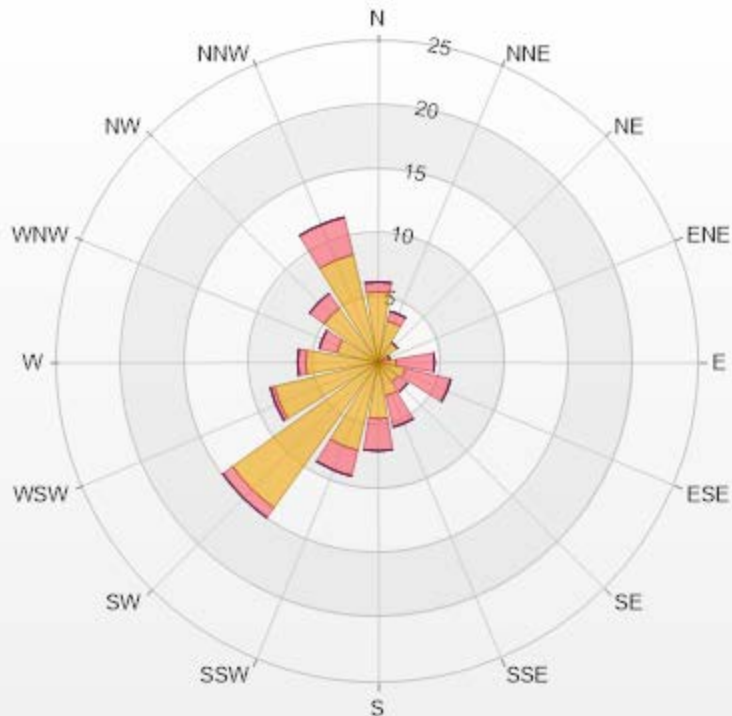
Timeseries Chart of Hourly Average for THC - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-THC55[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.94% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	5.49	0.78	0	0	0	6.27
NNE	3.29	0.78	0	0	0	4.07
NE	1.88	0	0	0	0	1.88
ENE	0.31	0.63	0	0	0	0.94
E	1.41	2.98	0	0	0	4.39
ESE	2.19	3.61	0	0	0	5.8
SE	1.88	0.94	0	0	0	2.82
SSE	2.66	2.51	0	0	0	5.17
S	4.39	2.51	0	0	0	6.9
SSW	7.05	2.04	0	0	0	9.09
SW	13.95	0.94	0	0	0	14.89
WSW	8.31	0.31	0	0	0	8.62
W	5.64	0.63	0	0	0	6.27
WNW	3.29	1.41	0	0	0	4.7
NW	5.17	1.41	0	0	0	6.58
NNW	8.62	2.98	0	0	0	11.6
Summary	75.53	24.46	0	0	0	100



PRAMP-202102

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% Icon Classes (ppm)

76

0-2

24

2-5

0

5-10

0

10-40

0

>40.0



PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2021

Summary of Hourly Averages

METHANE (CH4) in ppm

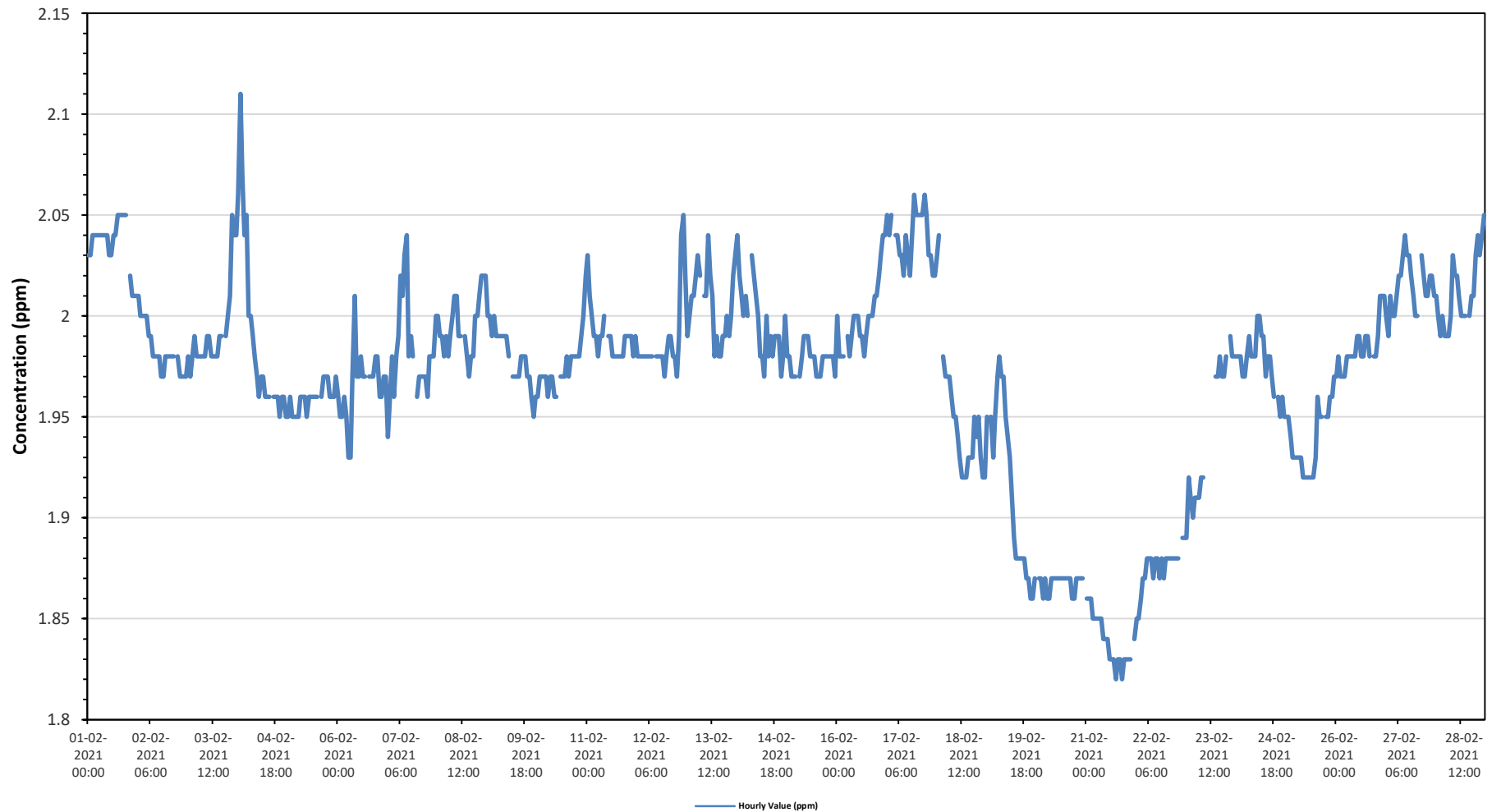
Maximum Hourly Value:	2.11 ppm on February 4 at hour 1	Hours in Service:	672
Maximum Daily Value:	2.04 ppm on February 17	Hours of Data:	638
Minimum Hourly Value:	1.82 ppm on February 21 at hour 14	Hours of Missing Data:	0
Minimum Daily Value:	1.84 ppm on February 21	Hours of Calibration:	34
Monthly Average:	1.97 ppm	Operational Uptime:	100.0

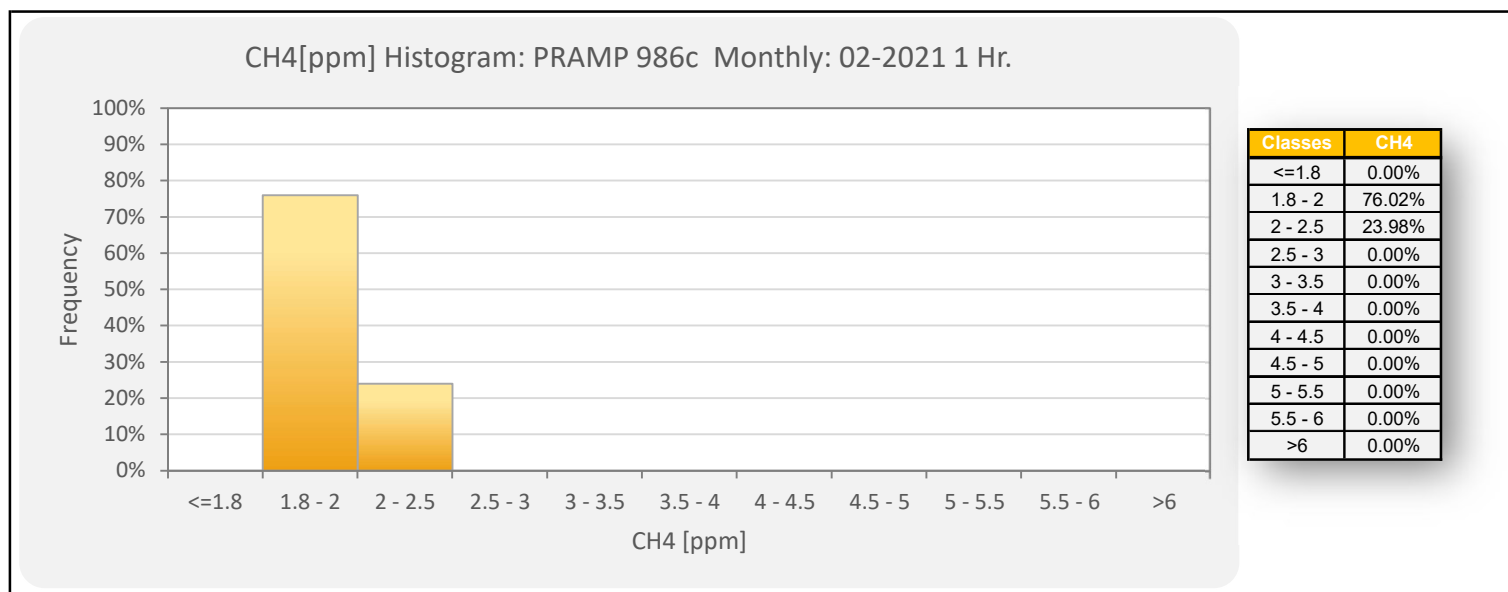
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Feb 1	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.04	2.04	2.05	2.05	2.05	2.05	2.05	S	2.02	2.01	2.01	2.01	2.01	2.01	2.05	2.04
Feb 2	2.01	2.00	2.00	2.00	2.00	1.99	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.98	1.98	1.98	1.98	1.98	S	1.98	1.97	1.97	1.97	1.97	1.97	2.01	1.98	
Feb 3	1.98	1.97	1.98	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.98	1.98	1.98	1.98	1.99	1.99	S	1.99	2.00	2.01	2.05	2.04	2.04	1.97	2.05	1.99	
Feb 4	2.06	2.11	2.07	2.04	2.05	2.00	2.00	1.99	1.98	1.97	1.96	1.97	1.97	1.96	1.96	1.96	S	1.96	1.96	1.96	1.95	1.96	1.96	1.95	1.95	2.11	1.99	
Feb 5	1.95	1.96	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.96	S	1.96	1.96	1.97	1.97	1.97	1.96	1.96	1.96	1.97	1.95	1.97	1.96	
Feb 6	1.96	1.95	1.95	1.96	1.95	1.93	1.93	1.97	2.01	1.97	1.97	1.98	1.97	S	1.97	1.97	1.97	1.98	1.98	1.96	1.96	1.96	1.97	1.97	1.93	2.01	1.97	
Feb 7	1.94	1.96	1.98	1.96	1.98	1.99	2.02	2.01	2.03	2.04	1.98	1.99	1.98	S	1.96	1.97	1.97	1.97	1.97	1.96	1.98	1.98	1.98	2.00	1.94	2.04	1.98	
Feb 8	2.00	1.99	1.99	1.98	1.99	1.98	1.99	2.00	2.01	2.01	1.99	1.99	S	1.99	1.98	1.97	1.98	1.98	2.00	2.00	2.01	2.02	2.02	2.02	1.97	2.02	2.00	
Feb 9	2.00	2.00	1.99	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.98	S	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.97	1.96	1.95	1.96	1.95	2.00	1.98	
Feb 10	1.96	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.96	1.96	S	1.97	1.97	1.97	1.98	1.97	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.02	1.96	2.02	1.98	
Feb 11	2.03	2.01	2.00	1.99	1.99	1.98	1.99	1.99	2.00	S	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.99	1.98	1.99	1.98	2.03	1.99	
Feb 12	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	S	1.98	1.98	1.98	1.98	1.97	1.98	1.99	1.99	1.98	1.98	1.97	1.99	2.04	2.05	2.02	1.97	2.05	1.99	
Feb 13	1.99	2.00	2.01	2.01	2.02	2.03	2.02	S	2.01	2.01	2.04	2.02	2.01	1.98	1.99	1.98	1.98	1.99	1.99	2.00	1.99	2.00	2.02	2.03	1.98	2.04	2.01	
Feb 14	2.04	2.02	2.01	2.00	2.01	2.00	S	2.03	2.02	2.01	2.00	1.98	1.98	1.97	2.00	1.98	1.99	1.98	1.99	1.99	1.99	1.97	1.98	2.00	1.97	2.04	2.00	
Feb 15	1.98	1.98	1.97	1.97	1.97	S	1.97	1.98	1.99	1.99	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.99	1.98	
Feb 16	2.00	1.98	1.98	1.98	S	1.99	1.98	1.99	2.00	2.00	2.00	1.99	1.99	1.98	1.99	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.04	2.04	1.98	2.04	2.00	
Feb 17	2.05	2.04	2.05	S	2.04	2.04	2.03	2.03	2.02	2.04	2.03	2.02	2.04	2.06	2.05	2.05	2.05	2.05	2.06	2.05	2.03	2.03	2.02	2.02	2.02	2.06	2.04	
Feb 18	2.03	2.04	S	1.98	1.98	1.97	1.97	1.96	1.95	1.95	1.94	1.93	1.92	1.92	1.92	1.93	1.93	1.93	1.95	1.94	1.95	1.93	1.92	1.92	1.92	2.04	1.95	
Feb 19	1.95	S	1.95	1.93	1.95	1.97	1.98	1.97	1.97	1.95	1.94	1.93	1.91	1.89	1.88	1.88	1.88	1.88	1.88	1.87	1.87	1.86	1.86	1.87	1.86	1.98	1.91	
Feb 20	S	1.87	1.87	1.86	1.87	1.86	1.86	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86	1.86	1.87	1.87	1.87	1.87	S	1.86	1.87	1.87		
Feb 21	1.86	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.84	1.84	1.84	1.83	1.83	1.83	1.82	1.83	1.83	1.82	1.83	1.83	1.83	S	1.84	1.82	1.86	1.84		
Feb 22	1.85	1.85	1.86	1.87	1.87	1.88	1.88	1.88	1.87	1.88	1.88	1.87	1.88	1.87	1.88	1.88	1.88	1.88	1.88	1.88	1.88	S	1.89	1.89	1.85	1.89	1.88	
Feb 23	1.89	1.92	1.91	1.90	1.91	1.91	1.91	1.92	1.92	C	C	C	C	C	1.97	1.97	1.98	1.97	1.97	1.98	S	1.99	1.98	1.98	1.89	1.99	1.94	
Feb 24	1.98	1.98	1.98	1.97	1.97	1.98	1.99	1.98	1.98	1.98	2.00	2.00	1.99	1.99	1.97	1.98	1.98	1.97	1.96	S	1.96	1.95	1.96	1.95	1.95	2.00	1.98	
Feb 25	1.95	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.93	1.96	1.95	1.95	S	1.95	1.95	1.95	1.96	1.96	1.97	1.92	1.97	1.94	
Feb 26	1.97	1.98	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.98	1.98	1.99	1.99	1.98	S	1.98	1.98	1.99	2.01	2.01	2.01	1.97	2.01	1.98	
Feb 27	2.00	1.99	2.01	2.00	2.00	2.01	2.02	2.02	2.03	2.04	2.03	2.03	2.02	2.01	2.00	2.00	S	2.03	2.02	2.01	2.01	2.02	2.02	2.01	1.99	2.04	2.01	
Feb 28	2.01	2.00	1.99	2.00	1.99	1.99	1.99	2.00	2.03	2.02	2.02	2.01	2.00	2.00	2.00	S	2.00	2.01	2.01	2.03	2.04	2.03	2.04	2.05	1.99	2.05	2.01	
Diurnal Maximum	2.06	2.11	2.07	2.04	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.04	2.06	2.05	2.05	2.05	2.05	2.06	2.05	2.04	2.05	2.05	2.05				
Diurnal Average	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

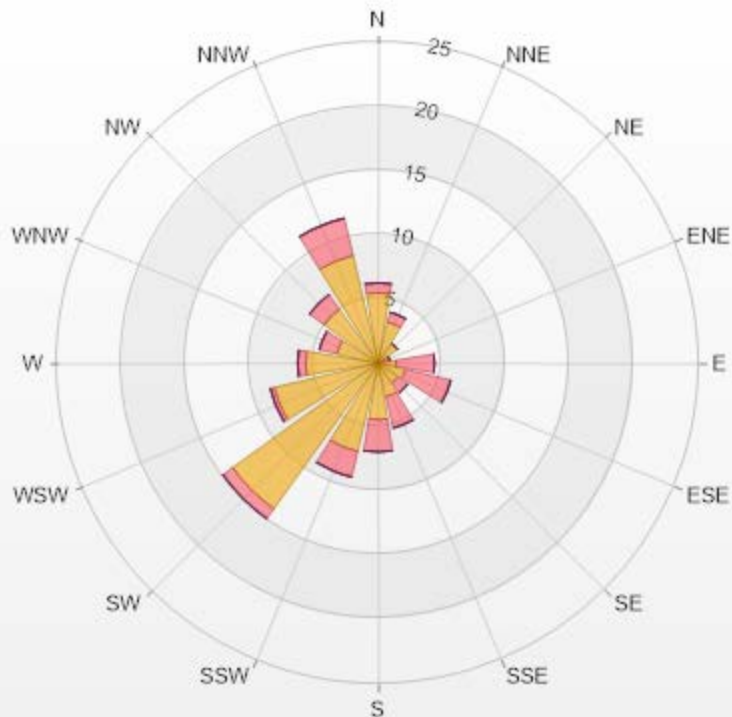
Timeseries Chart of Hourly Average for CH4 - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-CH4[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.94% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	5.49	0.78	0	0	0	6.27
NNE	3.29	0.78	0	0	0	4.07
NE	1.88	0	0	0	0	1.88
ENE	0.47	0.47	0	0	0	0.94
E	1.41	2.98	0	0	0	4.39
ESE	2.19	3.61	0	0	0	5.8
SE	1.88	0.94	0	0	0	2.82
SSE	2.66	2.51	0	0	0	5.17
S	4.39	2.51	0	0	0	6.9
SSW	7.05	2.04	0	0	0	9.09
SW	13.95	0.94	0	0	0	14.89
WSW	8.31	0.31	0	0	0	8.62
W	5.64	0.63	0	0	0	6.27
WNW	3.29	1.41	0	0	0	4.7
NW	5.17	1.41	0	0	0	6.58
NNW	8.62	2.98	0	0	0	11.6
Summary	75.69	24.3	0	0	0	100



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% Icon Classes (ppm)

76

0-2

24

2-5

0

5-10

0

10-20

0

>20.0



PEACE RIVER AREA MONITORING PROGRAM

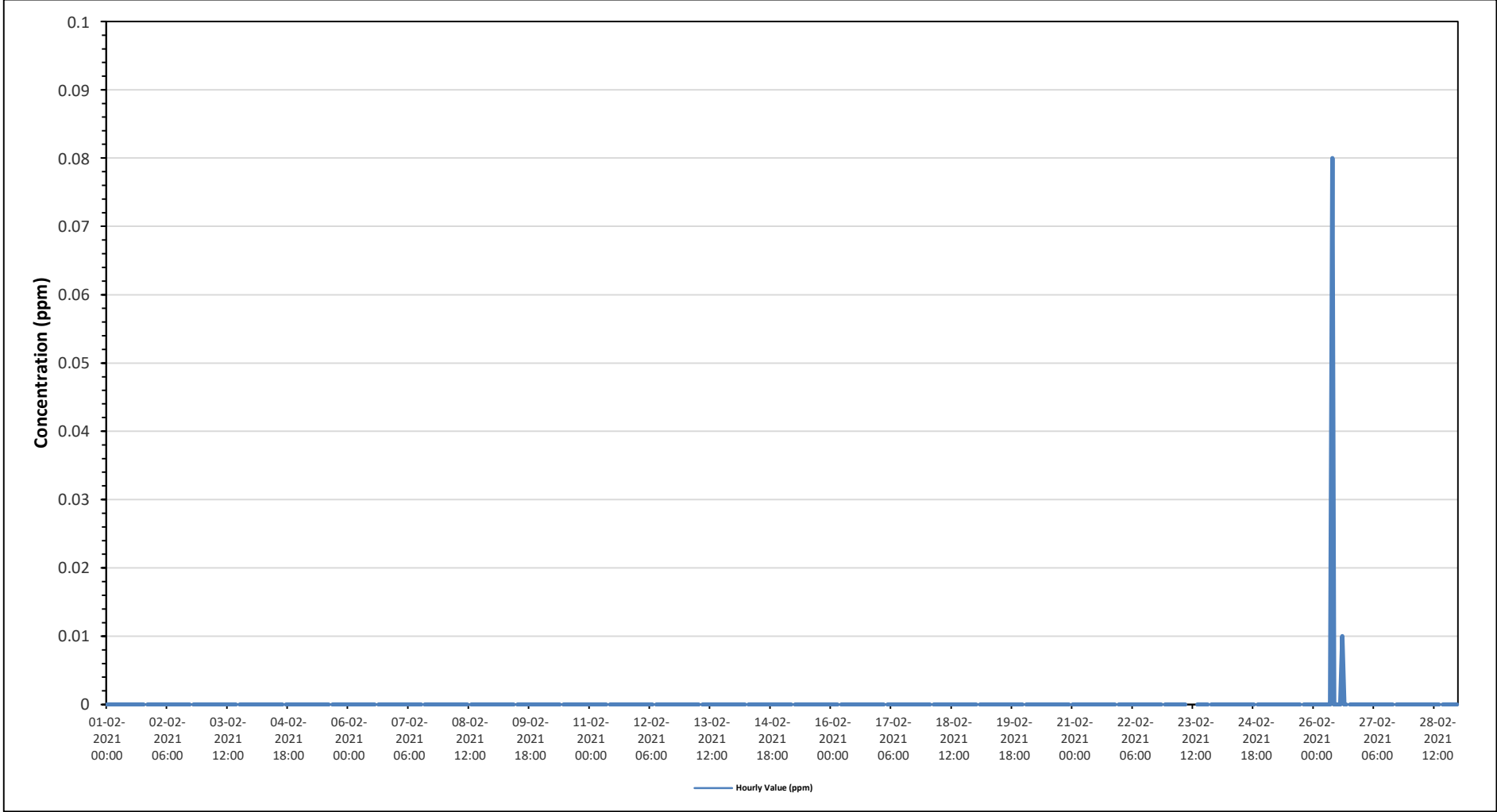
986c Station - February 2021

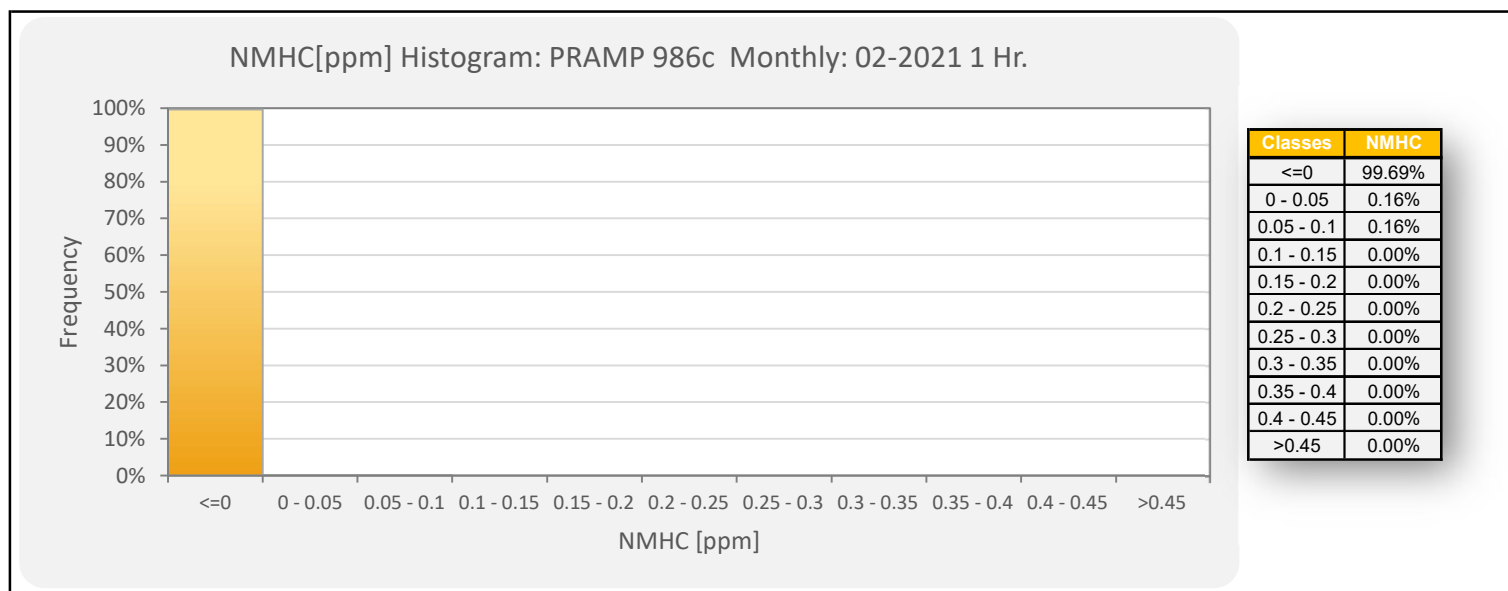
Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

Maximum Hourly Value:										0.08		ppm		on February 26 at hour 9										Hours in Service:										672	
Maximum Daily Value:										0.00		ppm		on February 26										Hours of Data:										638	
Minimum Hourly Value:										0.00		ppm		on February 1 at hour 0										Hours of Missing Data:										0	
Minimum Daily Value:										0.00		ppm		on February 1										Hours of Calibration:										34	
Monthly Average:										0.00		ppm												Operational Uptime:										100.0	
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23								
Feb 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 14	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 15	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 16	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 17	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 18	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 19	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 20	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00								
Feb 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00								
Feb 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00								
Feb 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.01	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Feb 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Diurnal Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
Diurnal Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																		
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure										
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																										
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																			
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																			

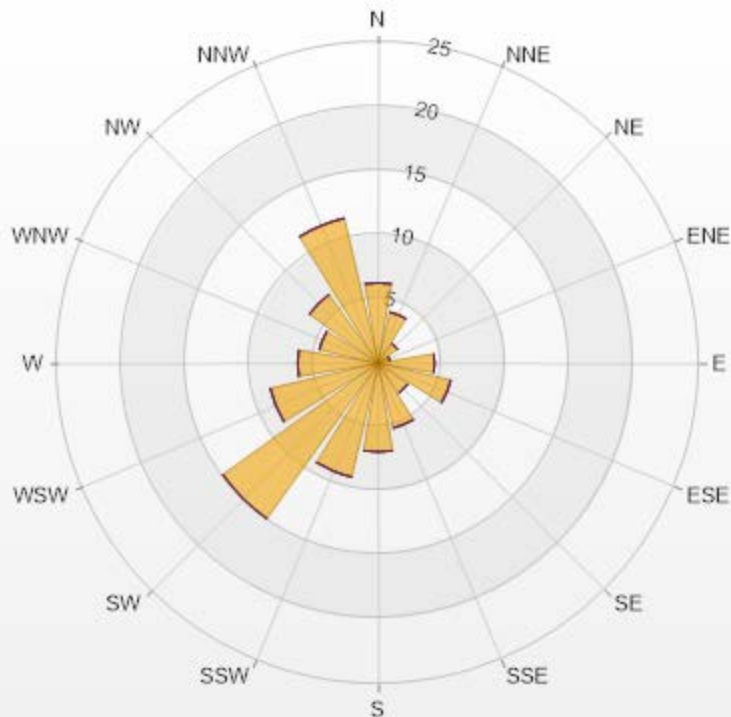
Timeseries Chart of Hourly Average for NMHC - 986c Station





Wind: PRAMP 986c Poll.: PRAMP 986c-NMHC[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.94% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-0.9	0.9-2	>2.0	Total
N	6.27	0	0	0	0	6.27
NNE	4.08	0	0	0	0	4.08
NE	1.88	0	0	0	0	1.88
ENE	0.94	0	0	0	0	0.94
E	4.39	0	0	0	0	4.39
ESE	5.8	0	0	0	0	5.8
SE	2.82	0	0	0	0	2.82
SSE	5.17	0	0	0	0	5.17
S	6.9	0	0	0	0	6.9
SSW	9.09	0	0	0	0	9.09
SW	14.89	0	0	0	0	14.89
WSW	8.62	0	0	0	0	8.62
W	6.27	0	0	0	0	6.27
WNW	4.7	0	0	0	0	4.7
NW	6.58	0	0	0	0	6.58
NNW	11.6	0	0	0	0	11.6
Summary	100	0	0	0	0	100



PRAMP-202102

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% Icon Classes (ppm)

100 0-0.1

0 0.1-0.3

0 0.3-0.9

0 0.9-2

0 >2.0



PEACE RIVER AREA MONITORING PROGRAM

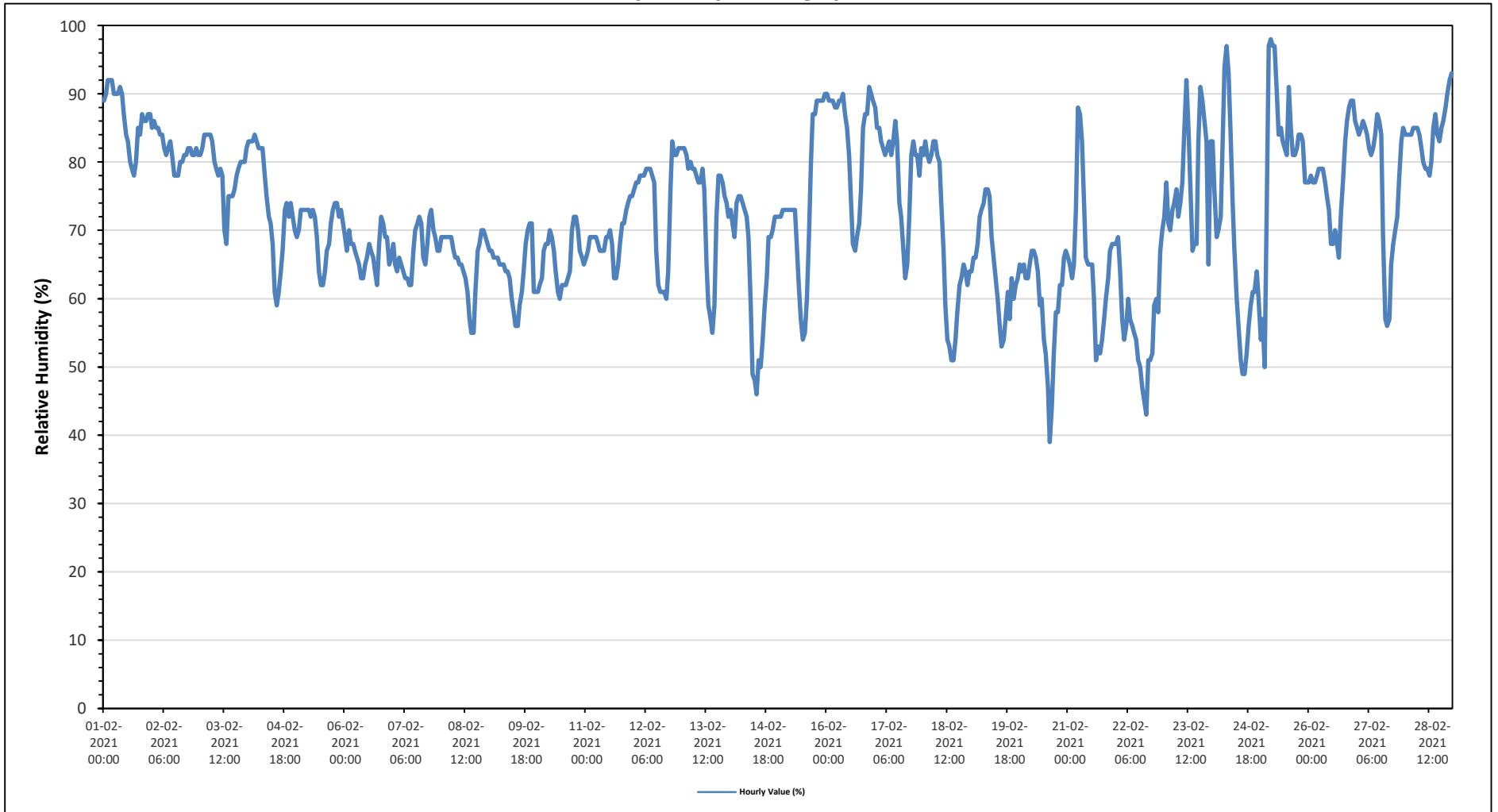
986c Station - February 2021

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:		98	%	on February 25 at hour 5										Hours in Service:		672											
Maximum Daily Value:		86.6	%	on February 1										Hours of Data:		672											
Minimum Hourly Value:		39	%	on February 20 at hour 15										Hours of Missing Data:		0											
Minimum Daily Value:		56.4	%	on February 22										Hours of Calibration:		0											
Monthly Average:		72.1	%											Operational Uptime:		100.0											
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
Feb 1	89	90	92	92	92	90	90	90	91	90	87	84	83	80	79	78	80	85	84	87	86	86	87	87	78	92	86.6
Feb 2	85	86	85	85	84	84	82	81	82	83	81	78	78	78	80	80	81	81	82	82	81	81	82	81	78	86	81.8
Feb 3	81	82	84	84	84	84	83	80	79	78	79	78	70	68	75	75	75	76	78	79	80	80	80	82	68	84	78.9
Feb 4	83	83	83	84	83	82	82	82	78	75	72	71	68	61	59	61	64	67	73	74	72	74	72	70	59	84	73.9
Feb 5	69	70	73	73	73	73	73	72	73	72	69	64	62	62	64	67	68	71	73	74	74	72	73	71	62	74	70.2
Feb 6	69	67	70	68	68	67	66	65	63	63	65	66	68	67	66	64	62	68	72	71	69	69	65	66	62	72	66.8
Feb 7	68	65	64	66	65	64	63	63	62	62	67	70	71	72	71	66	65	68	72	73	70	69	67	67	62	73	67.1
Feb 8	69	69	69	69	69	69	67	66	66	65	65	64	63	61	57	55	55	61	67	68	70	70	69	68	55	70	65.5
Feb 9	67	67	66	66	66	65	65	65	64	64	63	60	58	56	56	59	61	64	68	70	71	71	61	61	56	71	63.9
Feb 10	61	62	63	67	68	68	70	69	67	64	61	60	62	62	62	63	64	70	72	72	70	67	66	65	60	72	65.6
Feb 11	66	67	69	69	69	69	68	67	67	67	69	69	70	68	63	63	65	68	71	71	73	74	75	75	63	75	68.8
Feb 12	76	77	77	78	78	78	79	79	79	78	77	67	62	61	61	61	60	64	76	83	81	81	82	82	60	83	74.0
Feb 13	82	82	81	79	80	79	79	78	77	77	79	76	65	59	57	55	59	72	78	78	77	75	74	72	55	82	73.8
Feb 14	73	71	69	74	75	75	74	73	72	69	59	49	48	46	51	50	54	59	63	69	69	70	72	72	46	75	64.8
Feb 15	72	72	73	73	73	73	73	73	73	68	62	57	54	55	60	69	80	87	87	89	89	89	89	90	54	90	74.2
Feb 16	90	89	89	89	88	88	89	89	90	87	85	81	74	68	67	69	71	76	85	87	87	91	90	89	67	91	83.7
Feb 17	88	85	85	83	82	81	82	83	81	83	86	83	74	72	67	63	65	72	81	83	81	81	78	82	63	88	79.2
Feb 18	81	83	81	80	81	83	83	81	80	74	67	59	54	53	51	51	54	58	62	63	65	64	62	64	51	83	68.1
Feb 19	64	66	66	68	72	73	74	76	76	75	69	66	63	60	56	53	54	57	61	57	63	60	62	63	53	76	64.8
Feb 20	65	64	65	63	63	65	67	67	66	64	59	60	54	52	47	39	44	52	58	58	62	62	66	67	39	67	59.5
Feb 21	66	65	63	65	73	88	87	83	74	66	65	65	60	51	53	52	54	57	60	63	67	68	68		51	88	65.8
Feb 22	68	69	64	57	54	56	60	57	56	55	54	51	50	47	45	43	51	51	52	59	60	58	67	70	43	70	56.4
Feb 23	72	77	71	70	73	74	76	72	74	77	85	92	85	77	67	68	68	83	91	89	86	83	65	83	65	92	77.4
Feb 24	83	76	69	70	72	82	94	97	93	84	74	67	60	56	51	49	49	52	56	59	61	61	64	60	49	97	68.3
Feb 25	54	57	50	73	97	98	97	97	90	84	85	83	82	81	91	85	81	81	82	84	84	83	77	77	50	98	81.4
Feb 26	77	78	77	77	78	79	79	79	77	75	73	68	68	70	68	66	73	77	83	86	88	89	89	86	66	89	77.5
Feb 27	85	84	85	86	85	84	82	81	82	84	87	86	84	69	57	56	57	65	68	70	72	78	83	85	56	87	77.3
Feb 28	84	84	84	84	85	85	85	84	82	80	79	79	78	80	85	87	84	83	85	86	88	90	92	93	78	93	84.4
Diurnal Maximum	90	90	92	92	97	98	97	97	93	90	87	92	85	81	91	87	84	87	91	89	89	91	92	93			
Diurnal Average	74.5	74.5	73.8	74.7	76.1	77.0	77.5	76.8	75.5	73.7	72.3	69.8	66.9	64.3	63.0	62.4	64.1	68.6	72.8	74.3	74.7	74.8	74.2	74.9			
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance										
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance										
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

Timeseries Chart of Hourly Average for RH - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2021

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	970	mb	on February 11 at hour 7	Hours in Service:	672
Maximum Daily Value:	967	mb	on February 11	Hours of Data:	672
Minimum Hourly Value:	912	mb	on February 21 at hour 13	Hours of Missing Data:	0
Minimum Daily Value:	916	mb	on February 21	Hours of Calibration:	0
Monthly Average:	943	mb		Operational Uptime:	100.0

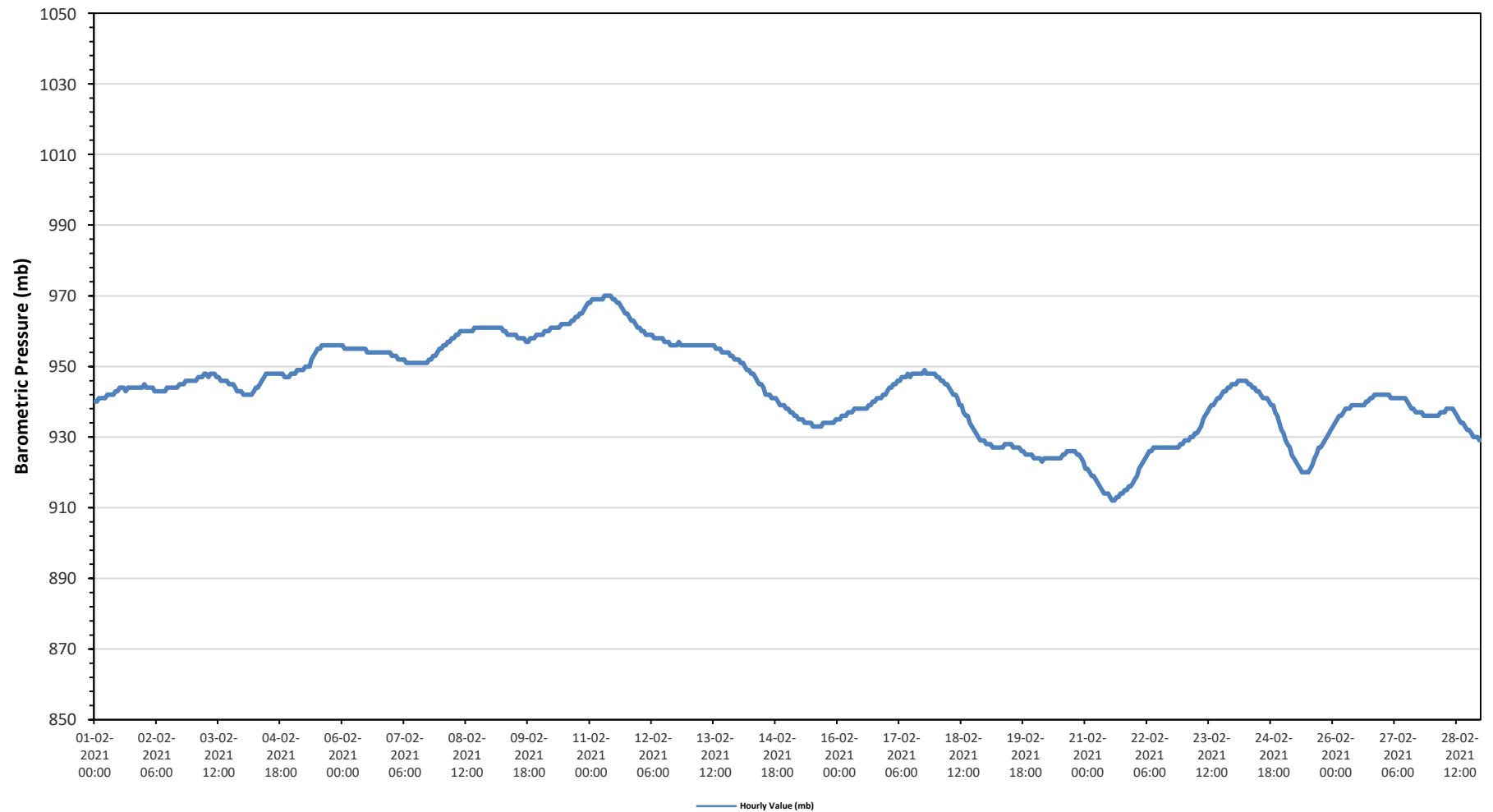
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	940	940	941	941	941	941	942	942	942	942	943	943	944	944	944	943	944	944	944	944	944	944	944	944	940	944	942.7
Feb 2	945	944	944	944	944	943	943	943	943	943	943	944	944	944	944	944	944	945	945	945	946	946	946	946	943	946	944.3
Feb 3	946	946	947	947	947	948	948	947	948	948	948	947	947	946	946	946	946	945	945	945	944	943	943	943	943	948	946.1
Feb 4	942	942	942	942	942	943	944	944	945	946	947	948	948	948	948	948	948	948	948	948	947	947	947	948	942	948	945.8
Feb 5	948	948	949	949	949	949	950	950	950	952	953	954	955	955	956	956	956	956	956	956	956	956	956	956	948	956	953.0
Feb 6	956	955	955	955	955	955	955	955	955	955	955	955	954	954	954	954	954	954	954	954	954	954	954	954	954	956	954.5
Feb 7	953	953	953	952	952	952	952	951	951	951	951	951	951	951	951	951	951	951	952	952	953	953	954	955	951	955	952.0
Feb 8	955	956	956	957	957	958	958	959	959	960	960	960	960	960	960	960	961	961	961	961	961	961	961	961	955	961	959.3
Feb 9	961	961	961	961	961	961	960	960	959	959	959	959	959	958	958	958	958	957	957	958	958	958	959	959	957	961	959.1
Feb 10	959	959	960	960	960	961	961	961	961	961	962	962	962	962	962	963	963	964	964	965	965	966	967	968	959	968	962.4
Feb 11	968	969	969	969	969	969	969	970	970	970	970	969	969	968	968	967	966	965	965	964	963	963	962	961	961	970	967.2
Feb 12	961	960	960	959	959	959	959	958	958	958	958	958	957	957	957	956	956	956	956	957	956	956	956	956	956	961	957.6
Feb 13	956	956	956	956	956	956	956	956	956	956	956	956	956	955	955	955	954	954	954	954	953	953	952	952	952	956	955.0
Feb 14	952	951	951	950	949	949	948	948	947	946	945	945	944	942	942	942	941	941	941	940	939	939	939	938	938	952	944.5
Feb 15	938	937	937	936	936	935	935	935	934	934	934	934	933	933	933	933	933	934	934	934	934	934	934	935	933	938	934.5
Feb 16	935	935	936	936	936	937	937	937	938	938	938	938	938	938	938	939	939	940	940	941	941	941	942	942	935	942	938.3
Feb 17	943	944	944	945	945	946	946	947	947	947	948	947	948	948	948	948	948	948	949	948	948	948	948	948	943	949	946.9
Feb 18	947	947	946	946	945	945	944	943	942	942	941	939	939	937	936	936	934	933	932	931	930	929	929	929	929	947	938.4
Feb 19	928	928	928	927	927	927	927	927	927	928	928	928	928	927	927	927	927	926	926	925	925	925	925	924	924	928	926.8
Feb 20	924	924	924	923	924	924	924	924	924	924	924	924	924	925	925	926	926	926	926	926	925	925	924	923	923	926	924.5
Feb 21	921	921	920	919	919	918	917	916	915	914	914	914	913	912	912	913	913	914	914	915	915	916	916	917	912	921	915.8
Feb 22	918	919	921	922	923	924	925	926	926	927	927	927	927	927	927	927	927	927	927	927	927	927	928	928	918	928	925.5
Feb 23	929	929	929	930	930	931	931	932	933	935	936	937	938	939	939	940	941	941	942	943	943	944	944	945	929	945	936.7
Feb 24	945	945	946	946	946	946	946	945	945	944	944	943	943	942	941	941	941	940	939	939	937	936	934	932	932	946	941.9
Feb 25	931	929	928	927	925	924	923	922	921	920	920	920	920	921	922	924	925	927	927	928	929	930	931	932	920	932	925.3
Feb 26	933	934	935	936	936	937	938	938	938	939	939	939	939	939	939	939	940	940	941	941	942	942	942	942	933	942	938.7
Feb 27	942	942	942	942	941	941	941	941	941	941	941	941	940	939	938	938	937	937	937	937	936	936	936	936	936	942	939.3
Feb 28	936	936	936	936	937	937	937	938	938	938	938	937	936	935	934	934	933	932	932	931	930	930	930	929	929	938	934.6
Diurnal Maximum	968	969	969	969	969	969	969	970	970	970	970	969	969	968	968	967	966	965	965	965	966	966	967	968			
Diurnal Average	943	943	943	943	943	943	943	943	943	944	944	944	943	943	943	943	943	943	943	943	943	943	943	943			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance	P Power Failure
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)			

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for BP - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

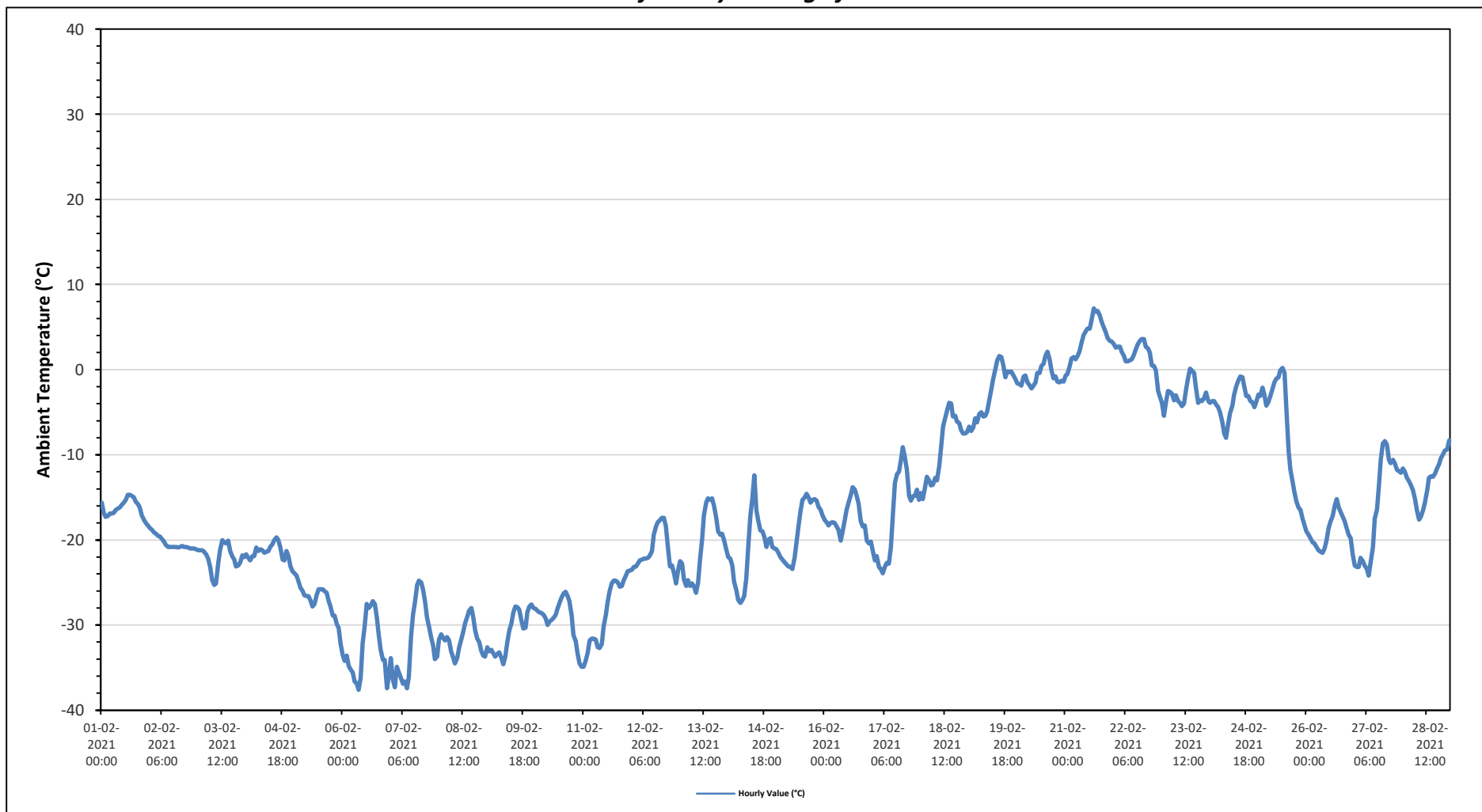
986c Station - February 2021

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:		7.2	°C	on February 21 at hour 14												Hours in Service:		672										
Maximum Daily Value:		3.6	°C	on February 21												Hours of Data:		672										
Minimum Hourly Value:		-37.6	°C	on February 6 at hour 8												Hours of Missing Data:		0										
Minimum Daily Value:		-32.9	°C	on February 6												Hours of Calibration:		0										
Monthly Average:		-17.1	°C													Operational Uptime:		100.0										
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Feb 1	-15.6	-16.8	-17.3	-17.2	-16.9	-16.9	-16.8	-16.5	-16.3	-16.2	-15.9	-15.6	-15.3	-14.7	-14.7	-14.8	-15	-15.5	-15.8	-16.2	-17.1	-17.6	-18	-18.3	-18.3	-14.7	-16.3	
Feb 2	-18.6	-18.8	-19.1	-19.3	-19.5	-19.6	-19.9	-20.2	-20.6	-20.8	-20.8	-20.8	-20.8	-20.9	-20.8	-20.7	-20.8	-20.8	-20.9	-21	-21	-21	-21.1	-21.1	-21.1	-18.6	-20.4	
Feb 3	-21.2	-21.2	-21.2	-21.4	-21.7	-22.2	-23.2	-24.7	-25.3	-25.1	-22.7	-21.2	-20	-20.3	-20.4	-20.1	-21.3	-21.9	-22.3	-23.1	-23	-22.6	-21.8	-22	-25.3	-20.0	-22.1	
Feb 4	-21.7	-22.1	-22.4	-21.9	-21.9	-20.9	-21.3	-21.1	-21.2	-21.5	-21.4	-21.3	-20.8	-20.5	-20	-19.7	-20	-20.9	-22.3	-22.4	-21.3	-21.9	-23.1	-23.7	-23.7	-19.7	-21.5	
Feb 5	-23.9	-24.2	-24.9	-25.6	-26	-26.5	-26.6	-26.6	-27.1	-27.8	-27.5	-26.5	-25.8	-25.8	-25.8	-26	-26.2	-27.2	-27.8	-28.9	-28.9	-29.9	-30.3	-32.2	-32.2	-23.9	-27.0	
Feb 6	-33.5	-34.2	-33.6	-34.8	-35.2	-35.6	-36.6	-36.9	-37.6	-36.2	-32.1	-30.1	-27.5	-28	-27.7	-27.2	-27.5	-29.1	-31.3	-32.9	-34.1	-34.1	-37.4	-36	-37.6	-27.2	-32.9	
Feb 7	-33.9	-36.4	-37.3	-34.9	-35.6	-36.2	-36.9	-36.6	-37.4	-36.1	-31.3	-28.7	-27.4	-25.3	-24.8	-25	-25.8	-27.2	-29.1	-30.2	-31.4	-32.4	-34	-33.7	-37.4	-24.8	-32.0	
Feb 8	-31.7	-31.1	-31.5	-31.8	-31.4	-31.8	-33.1	-33.8	-34.5	-33.9	-32.6	-31.7	-30.8	-29.8	-29	-28.3	-28	-29	-30.6	-31.6	-32	-33	-33.6	-33.7	-34.5	-28.0	-31.6	
Feb 9	-32.6	-33.1	-32.9	-33.3	-33.7	-33.4	-33.2	-33.9	-34.6	-33.7	-32	-30.6	-29.8	-28.5	-27.8	-27.9	-28.2	-29.5	-30.4	-30.3	-28.5	-27.8	-27.6	-28	-34.6	-27.6	-30.9	
Feb 10	-28.1	-28.3	-28.5	-28.6	-28.8	-29.2	-30	-29.6	-29.4	-29.2	-28.8	-28.1	-27.4	-26.8	-26.3	-26.1	-26.6	-27.2	-28.9	-31.2	-31.9	-33.3	-34.5	-34.9	-34.9	-26.1	-29.2	
Feb 11	-34.9	-34.2	-33.3	-31.8	-31.6	-31.6	-31.7	-32.6	-32.7	-32.2	-30.2	-28.8	-27.3	-26	-25.1	-24.8	-24.8	-25	-25.5	-25.4	-24.8	-24.2	-23.7	-23.6	-34.9	-23.6	-28.6	
Feb 12	-23.5	-23.2	-23.1	-22.8	-22.4	-22.3	-22.2	-22.2	-22.1	-21.8	-21.3	-19.4	-18.4	-17.9	-17.7	-17.4	-17.4	-18.4	-20.9	-23.1	-23	-23.9	-25.1	-23.6	-25.1	-17.4	-21.4	
Feb 13	-22.5	-22.8	-24.6	-25.4	-24.7	-25.4	-25.1	-25.5	-26.2	-25	-22.2	-19.9	-17.1	-15.6	-15.1	-15.3	-15.1	-16	-17.3	-19	-19.4	-19.3	-20.1	-21.1	-26.2	-15.1	-20.8	
Feb 14	-22	-22.2	-23	-24.9	-25.9	-27	-27.4	-27.1	-26.6	-24.6	-20.8	-17.3	-15.2	-12.4	-16.5	-17.7	-18.9	-19	-19.7	-20.8	-20	-19.8	-20.8	-21	-27.4	-12.4	-21.3	
Feb 15	-21.1	-21.5	-22	-22.3	-22.6	-22.9	-23.1	-23.2	-23.4	-22.1	-20.4	-18.5	-16.7	-15.3	-15	-14.6	-15	-15.6	-15.3	-15.2	-15.4	-16.1	-16.5	-17.1	-23.4	-14.6	-18.8	
Feb 16	-17.7	-17.9	-18.3	-18	-17.9	-18	-18.4	-18.8	-20.1	-19.1	-17.7	-16.5	-15.6	-14.7	-13.8	-14.1	-14.8	-15.8	-17.8	-18.4	-18.3	-20.1	-20.4	-20.2	-20.4	-13.8	-17.6	
Feb 17	-21.2	-22.4	-21.9	-23.2	-23.4	-23.9	-23.2	-22.7	-22.8	-20.9	-17	-13.3	-12.3	-12	-10.6	-9.1	-10.4	-11.7	-14.8	-15.4	-14.9	-14.8	-14.1	-15.3	-23.9	-9.1	-17.1	
Feb 18	-14.5	-15.2	-13.8	-12.6	-13	-13.6	-13.5	-12.7	-13	-11.3	-9.2	-6.7	-5.7	-4.8	-3.9	-4	-5.5	-5.4	-6.1	-6.3	-7.1	-7.5	-7.5	-7.3	-15.2	-3.9	-9.2	
Feb 19	-6.7	-7.2	-6.8	-5.7	-6.2	-5.2	-5	-5.5	-5.4	-4.9	-3.5	-2.4	-1.1	0	1.1	1.6	1.5	0.5	-0.9	-0.2	-0.3	-0.2	-0.7	-1.1	-7.2	1.6	-2.7	
Feb 20	-1.6	-1.7	-1.9	-0.8	-0.7	-1.5	-1.8	-2.2	-1.9	-1.5	-0.4	-0.4	0.4	0.7	1.6	2.1	1.3	-0.1	-1	-0.8	-1.4	-1.5	-1.3	-1.4	-2.2	2.1	-0.7	
Feb 21	-0.7	-0.5	0.4	1.3	1.5	1.2	1.6	2.2	3.2	4.1	4.5	4.8	4.8	5.8	7.2	6.8	6.9	6.4	5.6	5	4.4	3.7	3.4	3.3	-0.7	7.2	3.6	
Feb 22	3	2.6	2.7	2.7	2.1	1.6	1	1	1.1	1.2	1.7	2.4	3	3.4	3.6	3.6	2.7	2.5	2	0.5	0.4	-0.1	-2.5	-3.2	-3.2	3.6	1.6	
Feb 23	-3.9	-5.4	-3.8	-2.5	-2.6	-2.8	-3.6	-3	-3.7	-3.9	-4.3	-4	-2.4	-1	0.1	-0.1	-0.4	-2.3	-3.9	-3.6	-3.7	-3.3	-2.7	-3.7	-5.4	0.1	-2.9	
Feb 24	-3.9	-3.7	-3.7	-4.1	-4.4	-5.1	-6.1	-7.5	-8	-6.3	-5.1	-4.2	-2.9	-2	-1.3	-0.8	-0.9	-2	-3.1	-3.1	-3.7	-3.8	-4.4	-3.8	-8.0	-0.8	-3.9	
Feb 25	-2.9	-3.1	-2.1	-2.9	-4.2	-3.8	-3.1	-2.3	-1.5	-1.1	-0.9	-0.1	0.2	-0.4	-4.5	-9.5	-11.7	-13.2	-14.4	-15.5	-16.2	-16.5	-17.5	-18.3	-18.3	0.2	-6.9	
Feb 26	-19	-19.4	-19.8	-20.3	-20.4	-20.8	-21.2	-21.4	-21.5	-21	-20	-18.6	-17.8	-17.2	-16	-15.2	-16.2	-16.7	-17.3	-17.8	-18.6	-19.4	-19.8	-21.7	-21.7	-15.2	-19.0	
Feb 27	-23	-23.2	-23.2	-22.1	-22.5	-23	-23.4	-24.2	-22.6	-20.8	-17.5	-16.4	-13.8	-10.5	-8.7	-8.4	-8.8	-10.6	-11	-10.6	-11	-11.8	-11.9	-12.1	-24.2	-8.4	-16.3	
Feb 28	-11.6	-12	-12.7	-13.1	-13.5	-14.2	-15.2	-16.6	-17.6	-17.3	-16.5	-15.6	-14.2	-12.7	-12.5	-12.6	-12.2	-11.6	-11.1	-10.4	-9.9	-9.5	-9.4	-8.3	-17.6	-8.3	-12.9	
Diurnal Maximum	3.0	2.6	2.7	2.7	2.1	1.6	1.6	2.2	3.2	4.1	4.5	4.8	4.8	5.8	7.2	6.8	6.9	6.4	5.6	5.0	4.4	3.7	3.4	3.3				
Diurnal Average	-18.2	-18.5	-18.6	-18.5	-18.7	-19.0	-19.3	-19.4	-19.6	-18.9	-17.4	-16.1	-14.9	-14.0	-13.7	-13.8	-14.3	-15.1	-16.1	-16.7	-16.9	-17.2	-17.7	-18.0				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance											
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure			
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

Timeseries Chart of Hourly Average for AT - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

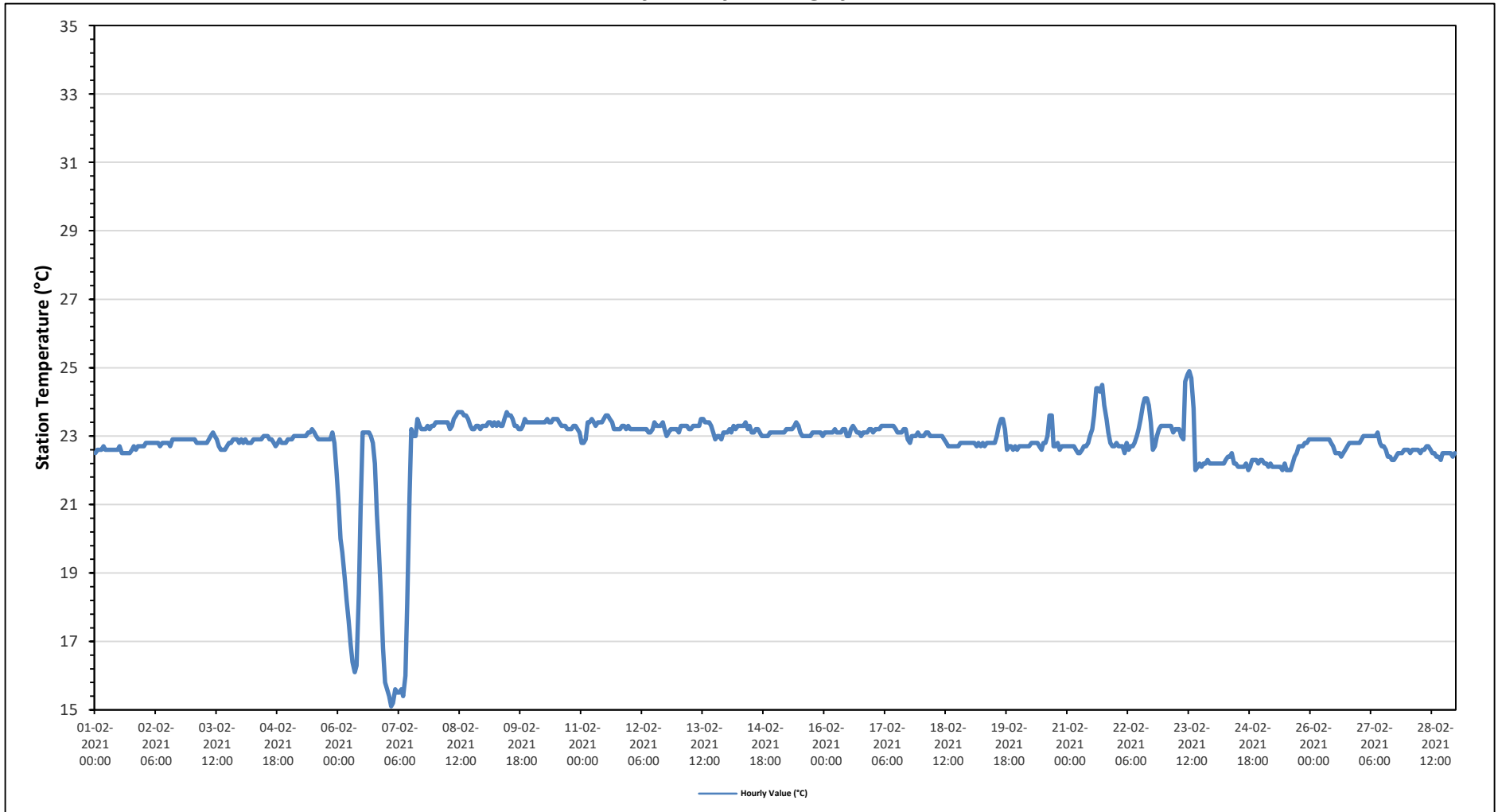
986c Station - February 2021

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:										24.9		°C		on February 23 at hour 12										Hours in Service:										672	
Maximum Daily Value:										23.4		°C		on February 8										Hours of Data:										672	
Minimum Hourly Value:										15.1		°C		on February 7 at hour 2										Hours of Missing Data:										0	
Minimum Daily Value:										19.7		°C		on February 6										Hours of Calibration:										0	
Monthly Average:										22.7		°C												Operational Uptime:										100.0	
Day		Hourly Period Starting at (MST)																							Daily	Daily	Daily								
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average							
Feb 1		22.5	22.6	22.6	22.6	22.7	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.7	22.5	22.5	22.5	22.5	22.5	22.6	22.7	22.6	22.7	22.7	22.7	22.5	22.7	22.6							
Feb 2		22.7	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.7	22.8	22.8	22.8	22.7	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.7	22.9	22.8							
Feb 3		22.9	22.9	22.8	22.8	22.8	22.8	22.8	22.8	22.9	23.0	23.1	23.0	22.9	22.7	22.6	22.6	22.6	22.7	22.8	22.8	22.9	22.9	22.9	22.8	22.6	23.1	22.8							
Feb 4		22.9	22.8	22.9	22.8	22.8	22.8	22.9	22.9	22.9	22.9	22.9	23.0	23.0	23.0	22.9	22.9	22.8	22.7	22.8	22.9	22.8	22.8	22.8	22.9	22.7	23.0	22.9							
Feb 5		22.9	22.9	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.1	23.1	23.2	23.1	23.0	22.9	22.9	22.9	22.9	22.9	22.9	22.9	23.1	22.8	22.0	22.0	23.2	22.9							
Feb 6		21.1	20.0	19.6	18.9	18.2	17.6	16.9	16.4	16.1	16.3	18.4	20.9	23.1	23.1	23.1	23.1	23.0	22.8	22.2	20.7	19.6	18.3	16.8	15.8	15.8	23.1	19.7							
Feb 7		15.6	15.4	15.1	15.2	15.6	15.5	15.5	15.6	15.4	16.0	18.1	21.2	23.2	23.0	23.0	23.5	23.3	23.2	23.2	23.2	23.3	23.2	23.3	23.3	15.1	23.5	19.7							
Feb 8		23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.2	23.3	23.5	23.6	23.7	23.7	23.7	23.6	23.6	23.5	23.3	23.2	23.2	23.3	23.3	23.2	23.3	23.2	23.7	23.4							
Feb 9		23.3	23.3	23.4	23.4	23.3	23.4	23.3	23.4	23.3	23.3	23.5	23.7	23.6	23.6	23.5	23.3	23.3	23.2	23.2	23.3	23.5	23.4	23.4	23.4	23.2	23.7	23.4							
Feb 10		23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.5	23.4	23.4	23.5	23.5	23.5	23.4	23.3	23.3	23.3	23.2	23.2	23.2	23.3	23.3	23.2	23.1	23.1	23.5	23.4							
Feb 11		22.8	22.8	22.9	23.4	23.4	23.5	23.4	23.3	23.4	23.4	23.4	23.5	23.6	23.6	23.5	23.4	23.2	23.2	23.2	23.2	23.3	23.3	23.2	23.3	22.8	23.6	23.3							
Feb 12		23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.1	23.1	23.2	23.4	23.3	23.3	23.3	23.4	23.2	23.0	23.1	23.2	23.2	23.2	23.2	23.0	23.4	23.2							
Feb 13		23.1	23.3	23.3	23.3	23.3	23.2	23.2	23.3	23.3	23.3	23.3	23.5	23.5	23.4	23.4	23.4	23.3	23.1	22.9	23.0	23.0	22.9	23.1	23.1	22.9	23.5	23.2							
Feb 14		23.1	23.2	23.1	23.3	23.2	23.3	23.3	23.3	23.3	23.4	23.2	23.3	23.1	23.1	23.2	23.2	23.1	23.0	23.0	23.0	23.0	23.1	23.1	23.1	23.0	23.4	23.2							
Feb 15		23.1	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.2	23.3	23.4	23.3	23.1	23.0	23.0	23.0	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.0	23.4	23.1							
Feb 16		23.1	23.1	23.1	23.1	23.1	23.2	23.1	23.1	23.1	23.2	23.2	23.0	23.0	23.2	23.3	23.2	23.1	23.1	23.0	23.1	23.1	23.1	23.2	23.2	23.0	23.3	23.1							
Feb 17		23.1	23.2	23.2	23.2	23.3	23.3	23.3	23.3	23.3	23.3	23.2	23.1	23.1	23.1	23.2	23.2	22.9	22.8	23.0	23.0	23.0	23.0	23.1	23.0	22.8	23.3	23.1							
Feb 18		23.0	23.0	23.1	23.1	23.0	23.0	23.0	23.0	23.0	23.0	23.0	22.9	22.8	22.7	22.7	22.7	22.7	22.7	22.8	22.8	22.8	22.8	22.8	22.8	22.7	23.1	22.9							
Feb 19		22.8	22.8	22.8	22.7	22.8	22.7	22.8	22.7	22.8	22.8	22.8	22.8	23.0	23.3	23.5	23.5	23.2	22.6	22.7	22.7	22.6	22.7	22.6	22.6	23.5	22.9								
Feb 20		22.7	22.7	22.7	22.7	22.7	22.7	22.8	22.8	22.8	22.7	22.6	22.8	22.8	23.0	23.6	23.6	22.7	22.7	22.8	22.6	22.7	22.7	22.7	22.6	23.6	22.8								
Feb 21		22.7	22.7	22.7	22.7	22.6	22.5	22.5	22.6	22.7	22.7	22.8	23.0	23.2	23.6	24.4	24.4	24.3	24.5	23.9	23.5	23.1	22.8	22.7	22.7	22.5	24.5	23.1							
Feb 22		22.8	22.7	22.7	22.7	22.5	22.8	22.6	22.7	22.7	22.8	23.0	23.2	23.5	23.9	24.1	24.1	23.9	23.4	22.6	22.7	23.0	23.2	23.3	23.3	22.5	24.1	23.1							
Feb 23		23.3	23.3	23.3	23.3	23.1	23.2	23.2	23.2	23.0	22.9	24.6	24.8	24.9	24.7	23.8	22.0	22.1	22.2	22.1	22.2	22.2	22.3	22.2	22.2	22.0	24.9	23.1							
Feb 24		22.2	22.2	22.2	22.2	22.2	22.2	22.3	22.4	22.4	22.5	22.2	22.2	22.1	22.1	22.1	22.2	22.0	22.1	22.3	22.3	22.3	22.2	22.2	22.3	22.0	22.5	22.2							
Feb 25		22.3	22.2	22.2	22.1	22.2	22.1	22.1	22.1	22.1	22.1	22.0	22.2	22.0	22.0	22.2	22.4	22.5	22.7	22.7	22.7	22.7	22.8	22.8	22.9	22.0	22.9	22.3							
Feb 26		22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.8	22.7	22.5	22.5	22.5	22.4	22.5	22.6	22.7	22.8	22.8	22.8	22.8	22.8	22.4	22.9	22.8							
Feb 27		22.8	22.9	23.0	23.0	23.0	23.0	23.0	23.0	23.1	22.8	22.7	22.7	22.6	22.4	22.4	22.3	22.3	22.4	22.5	22.5	22.5	22.6	22.6	22.6	22.3	23.1	22.7							
Feb 28		22.6	22.5	22.6	22.6	22.6	22.6	22.5	22.6	22.6	22.7	22.7	22.6	22.5	22.5	22.4	22.4	22.3	22.5	22.5	22.5	22.5	22.5	22.4	22.5	22.3	22.7	22.5							
Diurnal Maximum		23.4	23.4	23.4	23.4	23.4	23.5	23.4	23.5	23.4	23.5	24.6	24.8	24.9	24.7	24.4	24.4	24.3	24.5	23.9	23.5	23.5	23.4	23.4	23.4										
Diurnal Average		22.6	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.4	22.5	22.7	22.9	23.1	23.1	23.1	23.0	23.0	22.9	22.8	22.8	22.8	22.7	22.7	22.6										
C		Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																	
K		Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure									
X		Invalid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																			
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																			

Timeseries Chart of Hourly Average for ST - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

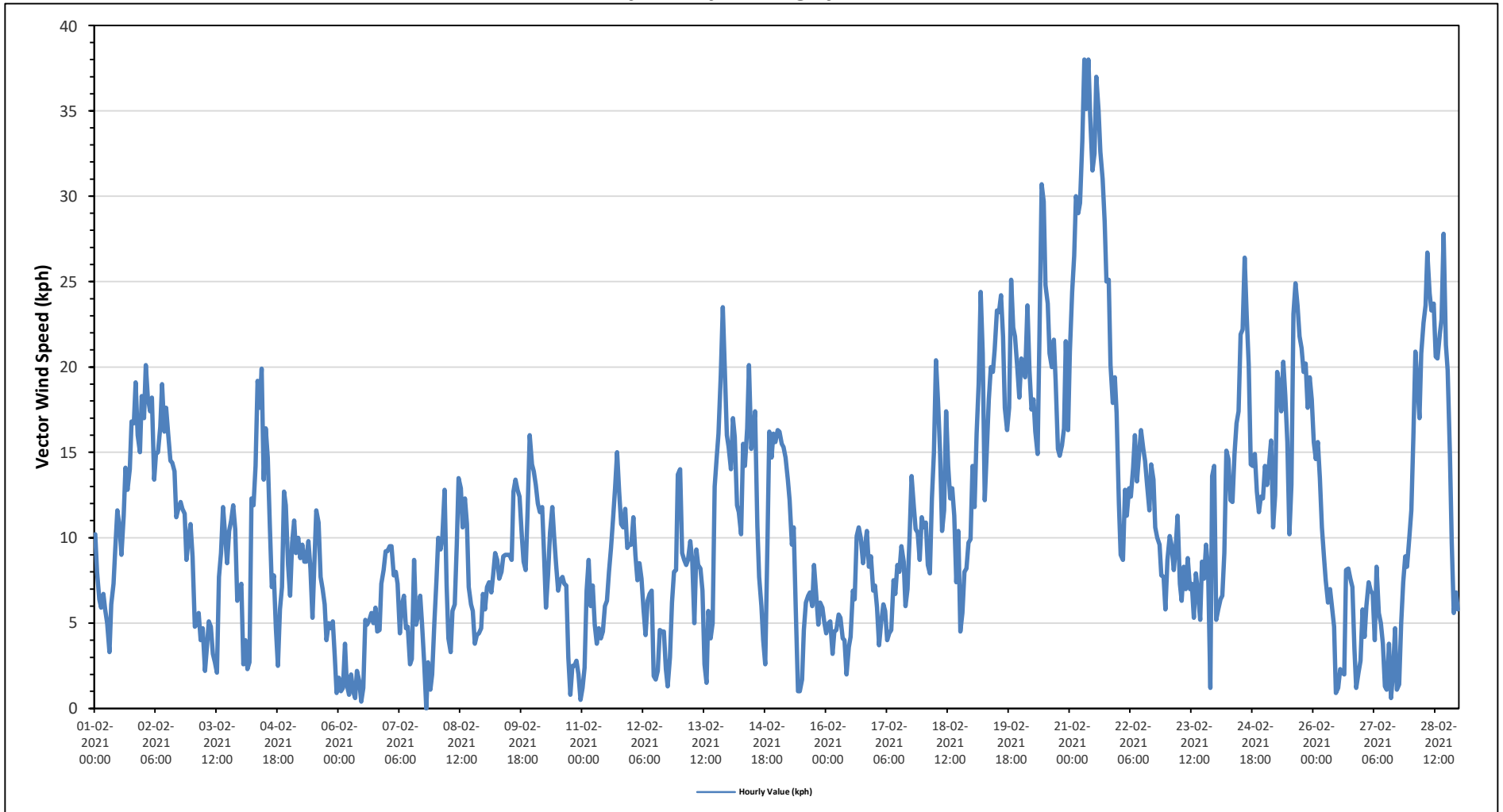
986c Station - February 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

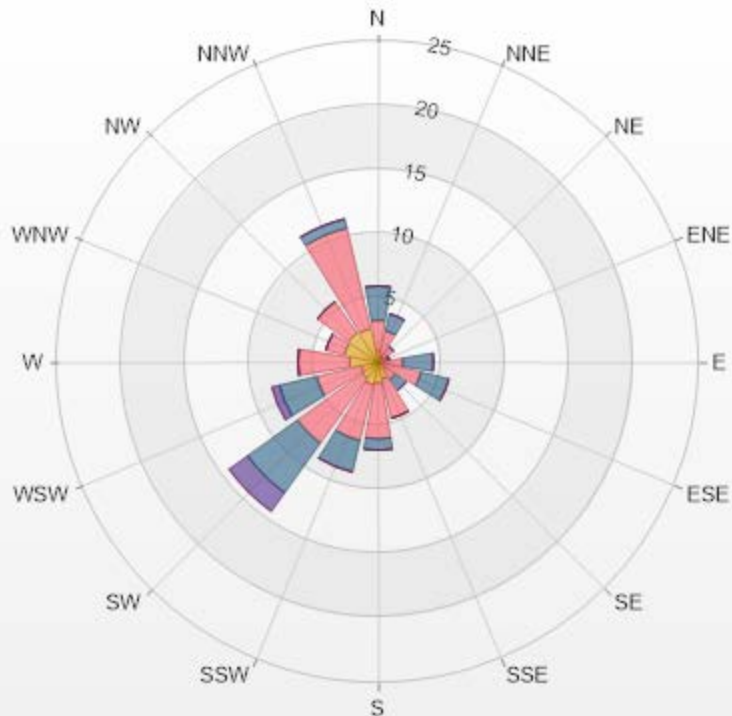
Maximum Hourly Value:										38.0 kph on February 21 at hour 7										Hours in Service:										672			
Maximum Daily Value:										28.4 kph on February 21										Hours of Data:										672			
Minimum Hourly Value:										0.0 kph on February 7 at hour 19										Hours of Missing Data:										0			
Minimum Daily Value:										1.8 kph on February 6										Hours of Calibration:										0			
Monthly Average:										3.1 kph										Operational Uptime:										100.0			
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23									
Feb 1	10.2	8.0	6.4	5.9	6.7	5.8	5.0	3.3	6.1	7.3	9.4	11.6	10.6	9.0	11.3	14.1	12.8	14.0	16.8	16.7	19.1	16.0	15.0	18.3	3.3	19.1	10.0						
Feb 2	17.0	20.1	18.2	17.4	18.2	13.4	14.9	15.0	16.5	19.0	16.2	17.6	16.1	14.5	14.4	13.9	11.2	11.7	12.1	11.7	11.4	8.7	9.9	10.8	8.7	20.1	14.3						
Feb 3	8.9	4.8	4.9	5.6	4.0	4.7	2.2	3.5	5.1	4.8	3.2	2.7	2.1	7.7	9.1	11.8	10.2	8.5	10.4	11.0	11.9	10.5	6.3	6.9	2.1	11.9	4.0						
Feb 4	7.3	2.6	4.0	2.3	2.7	12.3	11.9	14.2	19.2	17.6	19.9	13.4	16.4	14.7	10.8	7.1	7.8	4.7	2.5	5.8	7.1	12.7	11.9	8.4	2.3	19.9	8.1						
Feb 5	6.6	9.7	11.0	9.1	10.0	8.8	9.6	8.6	8.6	9.8	8.2	5.3	8.7	11.6	10.9	7.7	7.0	6.1	4.0	5.0	4.7	5.1	3.0	0.9	0.9	11.6	6.8						
Feb 6	1.8	1.0	1.2	3.8	1.4	0.8	2.0	1.0	0.6	2.2	1.6	0.4	1.2	5.2	4.9	5.2	5.6	5.0	5.9	4.5	4.6	7.3	8.1	9.2	0.4	9.2	1.8						
Feb 7	9.2	9.5	9.5	7.8	8.0	7.3	4.4	6.0	6.6	4.7	4.8	2.6	2.9	8.7	4.9	5.4	6.6	5.0	2.6	0.0	2.7	1.1	2.0	5.1	0.0	9.5	2.7						
Feb 8	7.5	10.0	9.3	10.0	12.8	7.2	4.1	3.3	5.7	6.1	9.6	13.5	12.9	10.6	12.3	10.8	7.1	6.1	5.7	3.8	4.3	4.4	4.7	6.7	3.3	13.5	6.9						
Feb 9	5.8	7.1	7.4	6.8	7.8	9.1	8.7	7.6	8.0	8.9	9.0	9.0	9.0	8.7	12.7	13.4	12.8	12.4	10.1	8.6	8.1	11.7	16.0	14.3	5.8	16.0	8.3						
Feb 10	13.9	13.1	12.0	11.5	11.8	9.2	5.9	7.8	10.3	11.8	10.1	8.4	6.9	7.5	7.7	7.3	7.2	3.0	0.8	2.5	2.5	2.8	2.0	0.5	0.5	13.9	5.7						
Feb 11	1.2	2.4	6.9	8.7	6.0	7.2	4.9	3.8	4.7	4.1	4.5	6.0	6.3	8.0	9.4	11.1	12.9	15.0	12.7	10.8	10.6	11.7	9.4	9.6	1.2	15.0	6.3						
Feb 12	9.6	11.2	9.0	7.5	8.5	7.6	5.8	4.3	6.3	6.7	6.9	1.9	1.7	2.2	4.6	4.5	4.5	2.3	1.3	3.0	6.2	8.0	8.1	13.7	1.3	13.7	3.5						
Feb 13	14.0	9.1	8.7	8.4	8.7	9.8	8.6	5.0	9.3	8.4	8.2	6.9	2.6	1.5	5.7	4.1	5.0	13.0	14.7	16.1	19.5	23.5	19.8	16.0	1.5	23.5	9.1						
Feb 14	15.3	14.0	17.0	15.9	11.9	11.5	10.2	15.5	14.2	16.4	20.1	15.2	16.2	17.4	10.7	7.7	6.0	4.0	2.6	9.9	16.2	14.7	16.1	15.6	2.6	20.1	10.6						
Feb 15	16.3	16.2	15.5	15.3	14.7	13.4	12.2	9.6	10.6	5.9	1.0	1.0	1.7	4.6	6.2	6.6	6.8	6.0	8.4	6.8	4.9	6.2	5.9	5.1	1.0	16.3	3.9						
Feb 16	4.4	5.0	5.1	3.2	4.5	4.6	5.5	5.3	4.1	4.0	2.0	3.6	4.2	6.9	6.4	10.1	10.6	10.0	8.5	9.4	10.4	8.3	8.9	6.9	2.0	10.6	3.7						
Feb 17	7.2	5.9	3.7	5.0	6.1	5.7	4.0	4.4	4.6	7.5	6.7	8.4	8.0	9.5	8.6	6.0	7.0	10.0	13.6	11.8	10.5	10.3	8.7	11.2	3.7	13.6	7.2						
Feb 18	10.6	10.9	8.4	7.9	12.3	15.0	20.4	18.0	15.1	10.4	11.6	17.4	14.2	12.3	12.9	11.3	7.4	10.4	4.5	5.6	8.0	8.2	9.7	9.9	4.5	20.4	11.0						
Feb 19	14.2	11.8	16.1	19.0	24.4	20.8	12.2	15.1	18.1	20.0	19.7	21.0	23.3	23.2	24.2	21.8	17.6	16.3	17.6	25.1	22.3	21.8	20.0	18.2	11.8	25.1	19.2						
Feb 20	20.5	20.1	19.4	23.6	19.8	17.5	18.1	16.2	14.9	21.5	30.7	29.7	24.8	23.7	20.8	20.0	21.6	19.2	15.2	14.8	15.4	16.4	21.5	16.3	14.8	30.7	19.4						
Feb 21	20.9	24.4	26.5	30.0	29.0	29.6	33.2	38.0	35.1	38.0	34.7	31.5	32.5	37.0	35.0	32.6	31.0	28.5	25.0	25.1	20.1	17.9	19.4	17.3	17.3	38.0	28.4						
Feb 22	12.0	9.0	8.7	12.8	11.3	12.9	12.4	14.1	16.0	13.3	15.0	16.3	15.2	14.5	13.1	11.6	14.3	13.4	10.6	10.0	9.6	7.8	7.7	5.8	5.8	16.3	11.6						
Feb 23	8.7	10.1	9.6	8.1	9.3	11.3	7.3	6.3	8.3	7.0	8.8	7.0	7.3	5.3	7.9	6.8	5.2	8.6	7.6	9.6	8.2	1.2	13.6	14.2	1.2	14.2	4.7						
Feb 24	5.2	5.8	6.4	6.6	9.1	15.1	14.6	12.2	12.1	14.9	16.7	17.4	21.9	22.2	26.4	23.0	20.1	14.3	14.2	14.9	12.7	11.5	12.4	12.3	5.2	26.4	13.4						
Feb 25	14.2	13.1	14.3	15.7	10.6	12.5	19.7	19.0	17.4	20.3	18.3	15.6	10.2	13.1	23.1	24.9	23.6	21.8	21.1	19.7	20.2	17.6	19.4	18.1	10.2	24.9	5.1						
Feb 26	15.6	14.6	15.6	13.5	10.6	8.9	7.5	6.2	7.0	5.9	4.8	0.9	1.2	2.3	2.1	2.0	8.1	8.2	7.6	7.1	3.5	1.2	2.1	2.8	0.9	15.6	5.8						
Feb 27	5.8	4.2	6.0	7.4	6.9	6.7	4.0	8.3	5.6	5.0	3.8	1.3	1.1	3.8	0.6	2.1	4.7	1.1	1.4	5.0	7.4	8.9	8.3	10.0	0.6	10.0	3.1						
Feb 28	11.6	15.9	20.9	19.3	17.0	20.8	22.6	23.6	26.7	24.3	23.3	23.7	20.6	20.5	21.9	22.8	27.8	21.3	19.8	14.8	9.7	5.6	6.8	5.8	5.6	27.8	18.0						
Diurnal Maximum	21	24	27	30	29	30	33	38	35	38	35	32	33	37	35	33	31	29	25	25	22	24	22	18									
Diurnal Average	10.6	10.3	10.8	11.0	10.9	11.1	10.4	10.5	11.3	11.6	11.7	11.0	10.7	11.7	12.1	11.6	11.5	10.7	9.9	10.3	10.4	10.0	10.6	10.4									
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure								
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																								
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																	
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																	

Timeseries Chart of Hourly Average for VWS - 986c Station



Wind: PRAMP 986c Monitor: WDS [KPH] Monthly: 02-2021 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 4.61% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.89	2.38	2.68	0	0	5.95
NNE	0.45	2.08	1.34	0	0	3.87
NE	0.45	1.04	0	0	0	1.49
ENE	0.45	0.3	0.15	0	0	0.9
E	0.45	1.49	2.38	0	0	4.32
ESE	0.15	3.27	2.23	0	0	5.65
SE	0.74	0.89	1.04	0	0	2.67
SSE	1.34	3.13	0	0	0	4.47
S	1.64	4.32	0.89	0	0	6.85
SSW	1.79	4.46	2.53	0	0	8.78
SW	1.49	6.25	4.76	1.79	0	14.29
WSW	1.34	3.57	2.98	0.6	0	8.49
W	2.23	4.02	0	0	0	6.25
WNW	2.68	1.49	0	0	0	4.17
NW	2.83	2.98	0	0	0	5.81
NNW	2.68	8.04	0.74	0	0	11.46
Summary	21.6	49.71	21.72	2.39	0	95.42



PRAMP-202102

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% Icon Classes (KPH)

22 1.8-6.0

50 6.0-15.0

22 15.0-29.0

2 29.0-39.0

0 >39.0



PEACE RIVER AREA MONITORING PROGRAM

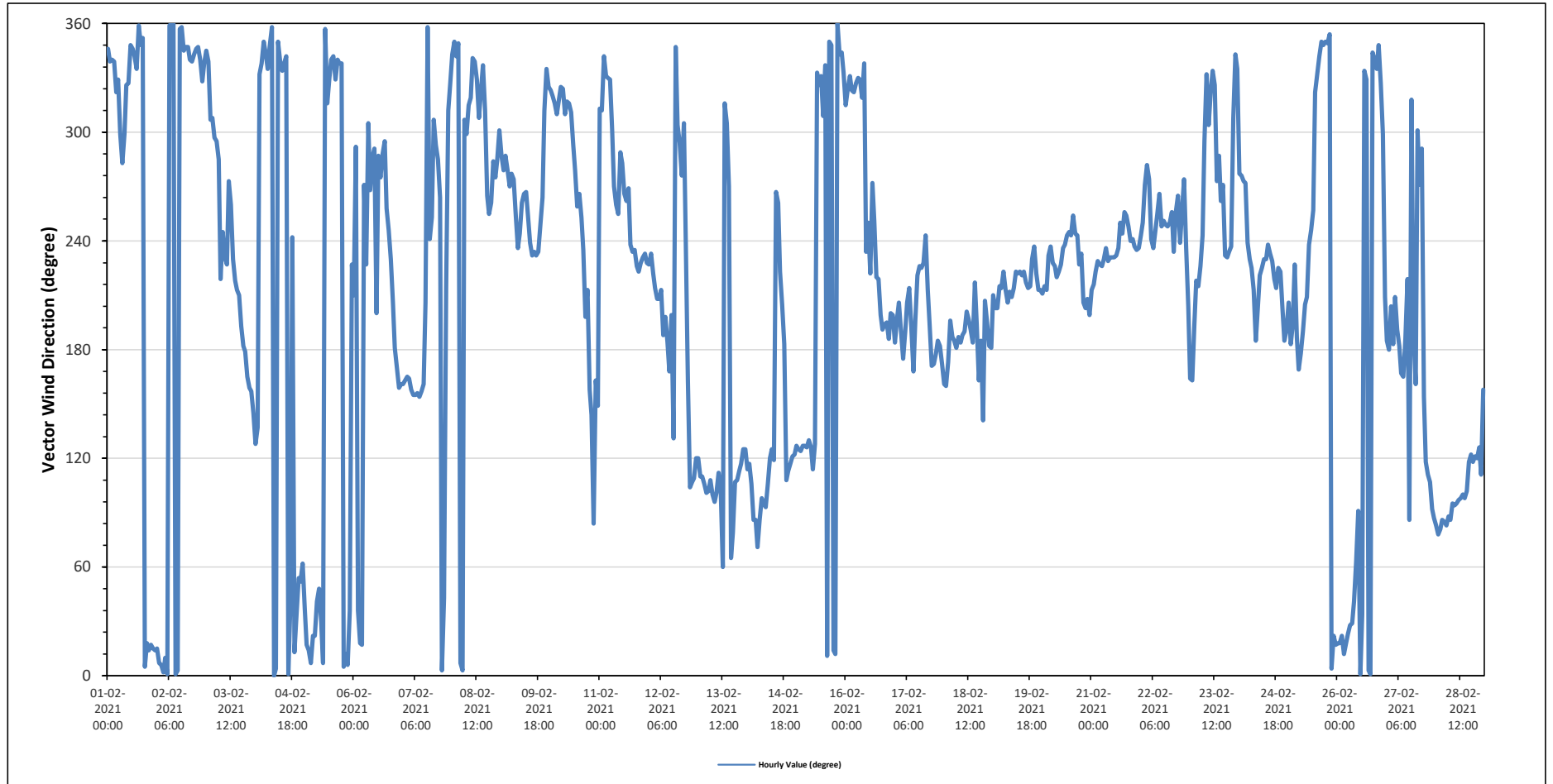
986c Station - February 2021

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:		237 (SW) degree																							Hours in Service:		672							
																									Hours of Data:		672							
																									Hours of Missing Data:		0							
																									Hours of Calibration:		0							
																									Operational Uptime:		100.0							
Day	Hourly Period Starting at (MST)																							Daily Average										
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant								
Feb 1	NNW	NNW	NNW	NNW	NW	NNW	WNW	W	WNW	NW	NW	NNW	NNW	NNW	N	NNW	N	N	NNE	NNE	NNE	NNE	NNE	NNE	352	N								
Feb 2	NNE	N	N	N	N	N	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	355	N								
Feb 3	NNW	NNW	NW	NW	WNW	WNW	WNW	SW	WSW	SW	SW	W	WSW	SW	SW	SSW	SSW	S	S	S	SSE	SSE	SSE	SE	213	SSW								
Feb 4	SE	SE	NNW	NNW	N	NNW	NNW	NNW	N	N	N	N	NNW	NNW	NNW	NNW	N	NE	WSW	NNE	NE	NE	NE	ENE	2	N								
Feb 5	NE	NNE	NNE	N	NNE	NNE	NE	NE	NNE	N	N	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	NE	SW	5	N									
Feb 6	SSW	WNW	NE	NNE	NNE	W	SW	WNW	W	WNW	WNW	SSW	WNW	W	WNW	WNW	WSW	WSW	SW	SSW	S	SSE	SSE	SSE	227	SW								
Feb 7	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	N	WSW	WSW	NW	WNW	WNW	W	N	NE	SSW	NW	NW	187	S								
Feb 8	NNW	N	NNW	NNW	N	N	NW	WNW	NW	NW	NNW	NNW	NNW	NW	NW	NNW	NW	W	WSW	W	WNW	W	WNW	WNW	325	NW								
Feb 9	WNW	W	WNW	W	W	W	W	WSW	SW	WSW	W	W	W	WSW	WSW	SW	SW	SW	SW	WSW	W	NW	NNW	NW	266	W								
Feb 10	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	W	WSW	W	WSW	SW	SSW	SSW	SSE	SE	E	SSE	SSE	302	WNW								
Feb 11	NW	NW	NNW	NNW	NNW	NNW	WNW	W	WSW	WSW	WNW	W	W	W	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	256	WSW								
Feb 12	SW	SW	SW	SSW	SSW	SSW	SSW	S	SSW	S	SSE	SSW	SE	NNW	WNW	WNW	W	WNW	WSW	SSE	ESE	ESE	ESE	ESE	194	SSW								
Feb 13	ESE	ESE	ESE	ESE	E	E	ESE	E	E	E	ESE	ESE	ENE	NW	WNW	W	ENE	ENE	ESE	ESE	ESE	ESE	SE	SE	108	ESE								
Feb 14	ESE	ESE	ESE	E	E	ENE	E	E	E	E	ESE	ESE	SE	ESE	W	W	SW	SSW	S	ESE	ESE	ESE	ESE	ESE	111	ESE								
Feb 15	SE	SE	ESE	SE	SE	SE	SE	SE	ESE	SE	NNW	NW	NNW	NW	NNW	NNE	N	NNW	NNE	NNE	N	NNW	NNW	NNW	95	E								
Feb 16	NW	NW	NNW	NW	NW	NW	NNW	NNW	NW	NNW	SW	WSW	SW	W	WSW	SW	SW	SSW	S	SSW	SSW	S	SSW	SSW	239	WSW								
Feb 17	S	SSW	SSW	S	S	S	SSW	SSW	S	SSE	SSW	SW	SW	SW	SW	WSW	SSW	SSW	S	S	S	S	S	S	194	SSW								
Feb 18	SSE	SSE	S	SSW	S	S	S	S	S	S	S	SSW	SSW	S	S	SW	SSW	SSE	S	SE	SSW	SSW	S	S	186	S								
Feb 19	SSW	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SSW	SSW	SW	SW	SW	SSW	SSW	218	SW								
Feb 20	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSW	SSW	229	SW								
Feb 21	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	235	SW								
Feb 22	WSW	WSW	W	W	W	WSW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	W	WSW	WSW	W	SW	SSW	252	WSW							
Feb 23	SSE	SSE	SSW	SW	SSW	SW	WSW	WNW	NNW	WNW	NW	NNW	NW	W	WNW	W	W	SW	SW	SW	SW	NW	NNW	NNW	264	W								
Feb 24	W	W	W	W	WSW	SW	SW	SSW	S	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SW	SW	SSW	S	S	224	SW								
Feb 25	SSW	S	S	SW	S	SSE	S	S	SSW	SSW	SW	WSW	WSW	NW	NNW	NNW	N	NNW	N	NNW	N	NNE	NNE	293	WNW									
Feb 26	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	ENE	E	N	NE	NNW	NNW	N	N	NNW	NNW	NNW	NNW	NW	WNW	SSW	14	NNE								
Feb 27	S	S	SSW	S	SSW	S	S	SSE	SSE	S	SW	E	NW	S	SSE	WNW	W	WNW	SSE	ESE	ESE	ESE	E	E	162	SSE								
Feb 28	E	ENE	E	E	E	E	E	E	E	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE	SE	ESE	SSE	99	E								
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance						Y	Routine Maintenance						P	Power Failure					
K	Collection Error						N	No Data (Machine Not in Service)																										
X	Invalid Data (Machine Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																										
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																		
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																		

Timeseries Chart of Hourly Average for VWD - 986c Station





PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																											
Maximum Hourly Value:		38.0 kph on February 21 at hour 7													Hours in Service:		672										
Maximum Daily Value:		28.4 kph on February 21													Hours of Data:		672										
Minimum Hourly Value:		0.0 kph on February 7 at hour 19													Hours of Missing Data:		0										
Minimum Daily Value:		1.8 kph on February 6													Hours of Calibration:		0										
Monthly Average:		3.1 kph													Operational Uptime:		100										
WIND DIRECTION																											
Monthly Average:		237 (SW) degree																									
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
Feb 1	10.2	8.0	6.4	5.9	6.7	5.8	5.0	3.3	6.1	7.3	9.4	11.6	10.6	9.0	11.3	14.1	12.8	14.0	16.8	16.7	19.1	16.0	15.0	18.3	3.3	19.1	10.0
Feb 2	NNW	NNW	NNW	NNW	NW	NNW	WNW	W	WNW	NW	NW	NNW	NNW	NNW	NNW	N	NNW	N	N	NNE	NNE	NNE	NNE	NNE	NNW	NNW	NNW
Feb 3	17.0	20.1	18.2	17.4	18.2	13.4	14.9	15.0	16.5	19.0	16.2	17.6	16.1	14.5	14.4	13.9	11.2	11.7	12.1	11.7	11.4	8.7	9.9	10.8	8.7	20.1	14.3
Feb 3	NNE	N	N	N	N	N	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW
Feb 3	8.9	4.8	4.9	5.6	4.0	4.7	2.2	3.5	5.1	4.8	3.2	2.7	2.1	7.7	9.1	11.8	10.2	8.5	10.4	11.0	11.9	10.5	6.3	6.9	2.1	11.9	4.0
Feb 3	NNW	NNW	NW	NW	WNW	WNW	WNW	SW	WSW	SW	SW	W	WSW	SW	SW	SSW	SSW	S	S	S	SSE	SSE	SSE	SE	SE	SE	SE
Feb 4	7.3	2.6	4.0	2.3	2.7	12.3	11.9	14.2	19.2	17.6	19.9	13.4	16.4	14.7	10.8	7.1	7.8	4.7	2.5	5.8	7.1	12.7	11.9	8.4	2.3	19.9	8.1
Feb 4	SE	SE	NNW	NNW	N	NNW	NNW	NNW	N	N	N	NNW	NNW	NNW	NNW	N	NE	WSW	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE
Feb 5	6.6	9.7	11.0	9.1	10.0	8.8	9.6	8.6	8.6	9.8	8.2	5.3	8.7	11.6	10.9	7.7	7.0	6.1	4.0	5.0	4.7	5.1	3.0	0.9	0.9	11.6	6.8
Feb 5	NE	NNE	NNE	N	NNE	NNE	NE	NE	NNE	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	NE	SW	SW	SW	SW
Feb 6	1.8	1.0	1.2	3.8	1.4	0.8	2.0	1.0	0.6	2.2	1.6	0.4	1.2	5.2	4.9	5.2	5.6	5.0	5.9	4.5	4.6	7.3	8.1	9.2	0.4	9.2	1.8
Feb 6	SSW	WNW	NE	NNE	NNE	W	SW	WNW	W	WNW	WNW	SSW	WNW	W	WNW	WNW	WSW	WSW	SW	SSW	S	SSE	SSE	SSE	SSE	SSE	SSE
Feb 7	9.2	9.5	9.5	7.8	8.0	7.3	4.4	6.0	6.6	4.7	4.8	2.6	2.9	8.7	4.9	5.4	6.6	5.0	2.6	0.0	2.7	1.1	2.0	5.1	0.0	9.5	2.7
Feb 7	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	N	WSW	WSW	NW	WNW	WNW	W	N	NE	SSW	NW	NW	NW	NW	NW
Feb 8	7.5	10.0	9.3	10.0	12.8	7.2	4.1	3.3	5.7	6.1	9.6	13.5	12.9	10.6	12.3	10.8	7.1	6.1	5.7	3.8	4.3	4.4	4.7	6.7	3.3	13.5	6.9
Feb 8	NNW	N	NNW	NNW	N	N	NW	WNW	NW	NW	NNW	NNW	NNW	NNW	NW	NNW	NW	W	WSW	W	WNW	W	WNW	WNW	WNW	WNW	WNW
Feb 9	5.8	7.1	7.4	6.8	7.8	9.1	8.7	7.6	8.0	8.9	9.0	9.0	9.0	8.7	12.7	13.4	12.8	12.4	10.1	8.6	8.1	11.7	16.0	14.3	5.8	16.0	8.3
Feb 9	WNW	W	WNW	W	W	W	W	WSW	SW	WSW	W	W	W	WSW	WSW	SW	SW	SW	SW	WSW	W	NW	NNW	NW	NW	NW	NW
Feb 10	13.9	13.1	12.0	11.5	11.8	9.2	5.9	7.8	10.3	11.8	10.1	8.4	6.9	7.5	7.7	7.3	7.2	3.0	0.8	2.5	2.5	2.8	2.0	0.5	0.5	13.9	5.7
Feb 10	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	W	WSW	W	WSW	SW	SSW	SSW	SSE	SE	E	SSE	SSE	SSE	SSE	SSE
Feb 11	1.2	2.4	6.9	8.7	6.0	7.2	4.9	3.8	4.7	4.1	4.5	6.0	6.3	8.0	9.4	11.1	12.9	15.0	12.7	10.8	10.6	11.7	9.4	9.6	1.2	15.0	6.3
Feb 11	NW	NW	NNW	NNW	NNW	NNW	NNW	W	WSW	WSW	WNW	W	W	W	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
Feb 12	9.6	11.2	9.0	7.5	8.5	7.6	5.8	4.3	6.3	6.7	6.9	1.9	1.7	2.2	4.6	4.5	4.5	2.3	1.3	3.0	6.2	8.0	8.1	13.7	1.3	13.7	3.5
Feb 12	SW	SW	SW	SSW	SSW	SSW	SSW	S	SSW	S	SSE	SSW	SE	NNW	WNW	WNW	W	WNW	WSW	SSE	ESE	ESE	ESE	ESE	ESE	ESE	ESE
Feb 13	14.0	9.1	8.7	8.4	8.7	9.8	8.6	5.0	9.3	8.4	8.2	6.9	2.6	1.5	5.7	4.1	5.0	13.0	14.7	16.1	19.5	23.5	19.8	16.0	1.5	23.5	9.1
Feb 13	ESE	ESE	ESE	ESE	E	E	ESE	E	E	E	ESE	ESE	ENE	NW	WNW	W	ENE	ENE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE
Feb 14	15.3	14.0	17.0	15.9	11.9	11.5	10.2	15.5	14.2	16.4	20.1	15.2	16.2	17.4	10.7	7.7	6.0	4.0	2.6	9.9	16.2	14.7	16.1	15.6	2.6	20.1	10.6
Feb 14	ESE	ESE	ESE	E	E	ENE	E	E	E	ESE	ESE	SE	ESE	W	W	SW	SSW	S	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE
Feb 15	16.3	16.2	15.5	15.3	14.7	13.4	12.2	9.6	10.6	5.9	1.0	1.0	1.7	4.6	6.2	6.6	6.8	6.0	8.4	6.8	4.9	6.2	5.9	5.1	1.0	16.3	3.9
Feb 15	SE	SE	ESE	SE	SE	SE	SE	SE	ESE	SE	NNW	NW	NNW	NW	NNW	NNE	N	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	NNW	NNW
Feb 16	4.4	5.0	5.1	3.2	4.5	4.6	5.5	5.3	4.1	4.0	2.0	3.6	4.2	6.9	6.4	10.1	10.6	10.0	8.5	9.4	10.4	8.3	8.9	6.9	2.0	10.6	3.7
Feb 16	NW	NW	NNW	NW	NW	NW	NNW	NNW	NW	NNW	SSW	SSW	SSW	SSW	W	WSW	SW	SW	SSW	S	SSW	SSW	S	SSW	SSW	SSW	SSW
Feb 17	7.2	5.9	3.7	5.0	6.1	5.7	4.0	4.4	4.6	7.5	6.7	8.4	8.0	9.5	8.6	6.0	7.0	10.0	13.6	11.8	10.5	10.3	8.7	11.2	3.7	13.6	7.2
Feb 17	S	SSW	SSW	S	S	S	SSW	SSW	S	SSE	SSW	SW	SW	SW	SW	WSW	SSW	SSW	S	S	S	S	S	S	S	S	S
Feb 18	10.6	10.9	8.4	7.9	12.3	15.0	20.4	18.0	15.1	10.4	11.6	17.4	14.2	12.3	12.9	11.3	7.4	10.4	4.5	5.6	8.0	8.2	9.7	9.9	4.5	20.4	11.0
Feb 18	SSE	SSE	S	SSW	S	S	S	S	S	S	S	SSW	SSW	S	S	SW	SSW	SSE	S	SE	SSW	SSW	S	S	S	S	S
Feb 19	14.2	11.8	16.1	19.0	24.4	20.8	12.2	15.1	18.1	20.0	19.7	21.0	23.3	24.2	21.8	17.6	16.3	17.6	25.1	22.3	21.8	20.0	18.2	11.8	25.1	19.2	19.2
Feb 19	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW
Feb 20	20.5	20.1	19.4	23.6	19.8	17.5	18.1	16.2	14.9	21.5	30.7	29.7	24.8	23.7	20.8	20.0	21.6	19.2	15.2	14.8	15.4	16.4	21.5	16.3	14.8	30.7	19.4
Feb 20	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW



PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																															
Maximum Hourly Value: 38.0 kph on February 21 at hour 7														Hours in Service: 672																	
Maximum Daily Value: 28.4 kph on February 21														Hours of Data: 672																	
Minimum Hourly Value: 0.0 kph on February 7 at hour 19														Hours of Missing Data: 0																	
Minimum Daily Value: 1.8 kph on February 6														Hours of Calibration: 0																	
Monthly Average: 3.1 kph														Operational Uptime: 100																	
WIND DIRECTION																															
Monthly Average: 237 (SW) degree																															
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average				
Feb 21	20.9	24.4	26.5	30.0	29.0	29.6	33.2	38.0	35.1	38.0	34.7	31.5	32.5	37.0	35.0	32.6	31.0	28.5	25.0	25.1	20.1	17.9	19.4	17.3	17.3	38.0	28.4				
Feb 22	SSW	SW	SW	SW	SW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW				
	12.0	9.0	8.7	12.8	11.3	12.9	12.4	14.1	16.0	13.3	15.0	16.3	15.2	14.5	13.1	11.6	14.3	13.4	10.6	10.0	9.6	7.8	7.7	5.8	5.8	16.3	11.6				
Feb 23	WSW	WSW	W	W	W	WSW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	W	WSW	WSW	W	SW	SSW	SSW	SSW	SSW				
	8.7	10.1	9.6	8.1	9.3	11.3	7.3	6.3	8.3	7.0	8.8	7.0	7.3	5.3	7.9	6.8	5.2	8.6	7.6	9.6	8.2	1.2	13.6	14.2	1.2	14.2	4.7				
Feb 24	SSE	SSE	SSW	SW	SSW	SW	WSW	NNW	NNW	NNW	NNW	NNW	NW	W	NNW	W	W	SW	SW	SW	SW	NW	NNW	NNW	NNW	NNW	NNW				
	5.2	5.8	6.4	6.6	9.1	15.1	14.6	12.2	12.1	14.9	16.7	17.4	21.9	22.2	26.4	23.0	20.1	14.3	14.2	14.9	12.7	11.5	12.4	12.3	5.2	26.4	13.4				
Feb 25	W	W	W	W	WSW	SW	SSW	S	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SW	SSW	SW	SSW	S	S	10.2	24.9	5.1			
	14.2	13.1	14.3	15.7	10.6	12.5	19.7	19.0	17.4	20.3	18.3	15.6	10.2	13.1	23.1	24.9	23.6	21.8	21.1	19.7	20.2	17.6	19.4	18.1	10.2	24.9	5.1				
Feb 26	SSW	S	S	SW	S	SSE	S	S	SSW	SSW	SW	WSW	WSW	NW	NNW	NNW	N	NNW	N	NNW	N	N	NNE	NNE	NNE	NNE	NNE				
	15.6	14.6	15.6	13.5	10.6	8.9	7.5	6.2	7.0	5.9	4.8	0.9	1.2	2.3	2.1	2.0	8.1	8.2	7.6	7.1	3.5	1.2	2.1	2.8	0.9	15.6	5.8				
Feb 27	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	ENE	E	N	NE	NNW	NNW	N	N	NNW	NNW	NNW	NNW	NW	WNW	SSW	SSW	SSW	SSW				
	5.8	4.2	6.0	7.4	6.9	6.7	4.0	8.3	5.6	5.0	3.8	1.3	1.1	3.8	0.6	2.1	4.7	1.1	1.4	5.0	7.4	8.9	8.3	10.0	0.6	10.0	3.1				
Feb 28	S	S	SSW	S	SSW	S	S	SSE	SSE	S	SW	E	NW	S	SSE	WNW	W	WNW	SSE	ESE	ESE	ESE	E	E	E	E	E				
	11.6	15.9	20.9	19.3	17.0	20.8	22.6	23.6	26.7	24.3	23.3	23.7	20.6	20.5	21.9	22.8	27.8	21.3	19.8	14.8	9.7	5.6	6.8	5.8	5.6	27.8	18.0				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance														
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance														
X	Invalid Data (Equipment Malfunction/Recovery)							RRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)															P	Power Failure						
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																															
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																															

842b STATION



PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2021

Summary of Hourly Averages

SULPHUR DIOXIDE (SO₂) in ppb

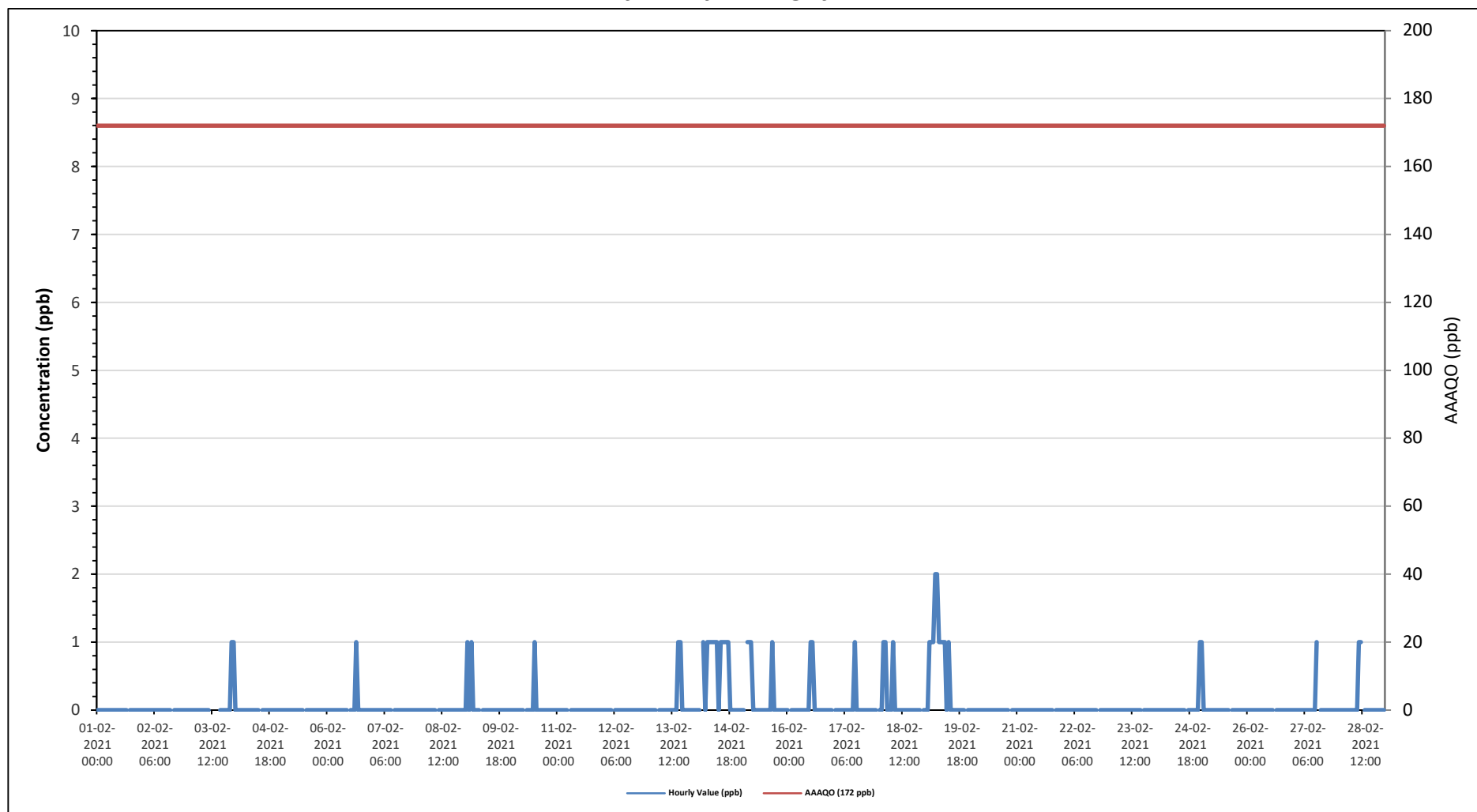
Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

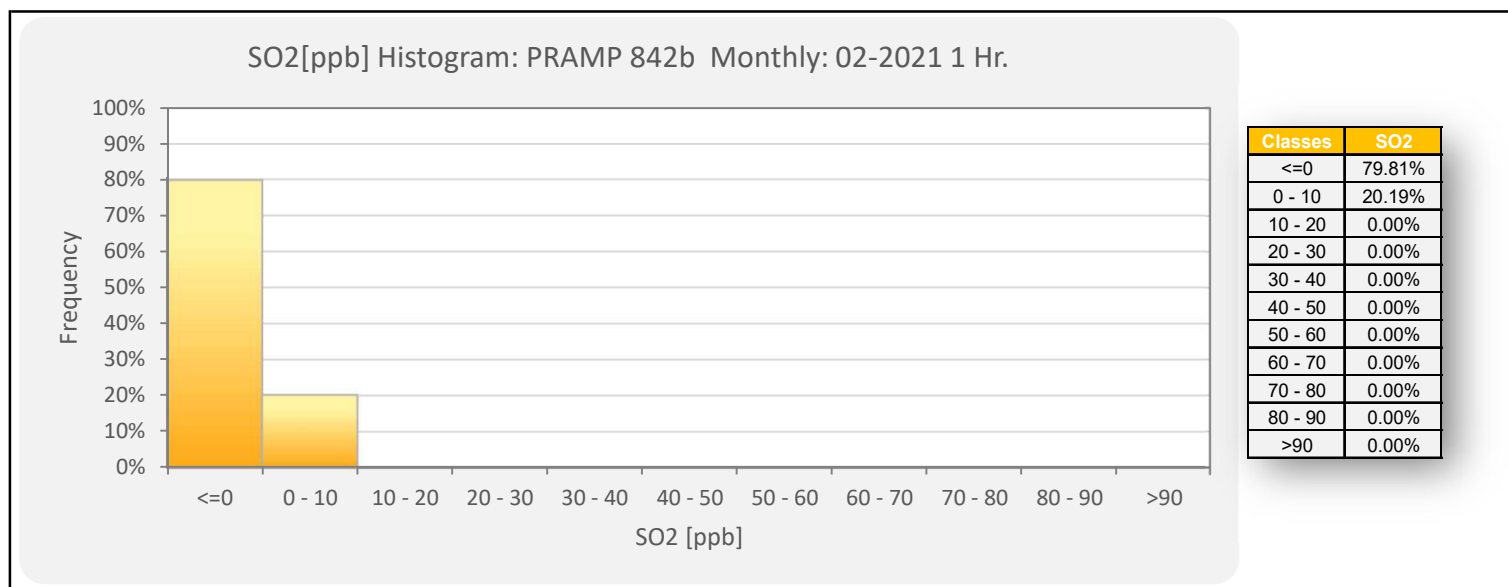
Number of 1-Hour Exceedances: 0 Number of 24-Hour Exceedances: 0 30-Day Exceedance: 0

Maximum Hourly Value: 2 ppb on February 19 at hour 5 Hours in Service: 672
 Maximum Daily Value: 0.5 ppb on February 14 Hours of Data: 639
 Minimum Hourly Value: 0 ppb on February 1 at hour 0 Hours of Missing Data: 0
 Minimum Daily Value: 0.0 ppb on February 1 Hours of Calibration: 33
 Monthly Average: 0.1 ppb Operational Uptime: 100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23						
Feb 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 3	0	0	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	1	1	0	0	1	1	0	1	0.1	
Feb 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 5	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 6	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Feb 7	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 8	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 9	0	1	0	1	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	
Feb 10	0	0	0	0	0	0	0	S	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	
Feb 11	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 12	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 13	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	
Feb 14	0	0	0	S	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.5	
Feb 15	0	0	S	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2	
Feb 16	0	S	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	
Feb 17	S	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	0.0	
Feb 18	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	0.1
Feb 19	0	0	1	1	1	2	2	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	2	0.5	
Feb 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0.0
Feb 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.0	
Feb 25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	
Feb 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 27	0	0	0	0	0	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	
Feb 28	0	0	0	0	0	0	0	0	0	0	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	
Diurnal Maximum	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	1	1							
Diurnal Average	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1								
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure								
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																								
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																	
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																	

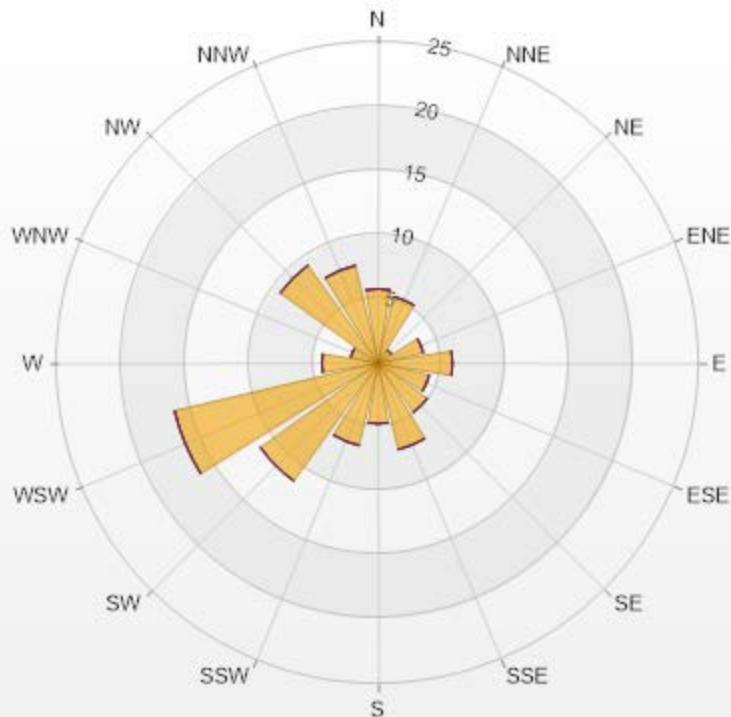
Timeseries Chart of Hourly Average for SO2 - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-SO2[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.09% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	5.79	0	0	0	0	5.79
NNE	5.32	0	0	0	0	5.32
NE	1.25	0	0	0	0	1.25
ENE	3.6	0	0	0	0	3.6
E	5.79	0	0	0	0	5.79
ESE	4.07	0	0	0	0	4.07
SE	4.69	0	0	0	0	4.69
SSE	6.89	0	0	0	0	6.89
S	4.69	0	0	0	0	4.69
SSW	6.57	0	0	0	0	6.57
SW	11.27	0	0	0	0	11.27
WSW	16.28	0	0	0	0	16.28
W	4.38	0	0	0	0	4.38
WNW	2.19	0	0	0	0	2.19
NW	9.39	0	0	0	0	9.39
NNW	7.82	0	0	0	0	7.82
Summary	100	0	0	0	0	100



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% Icon Classes (ppb)

100 0-10

0 10-50

0 50-100

0 100-172

0 >172.0



PEACE RIVER AREA MONITORING PROGRAM

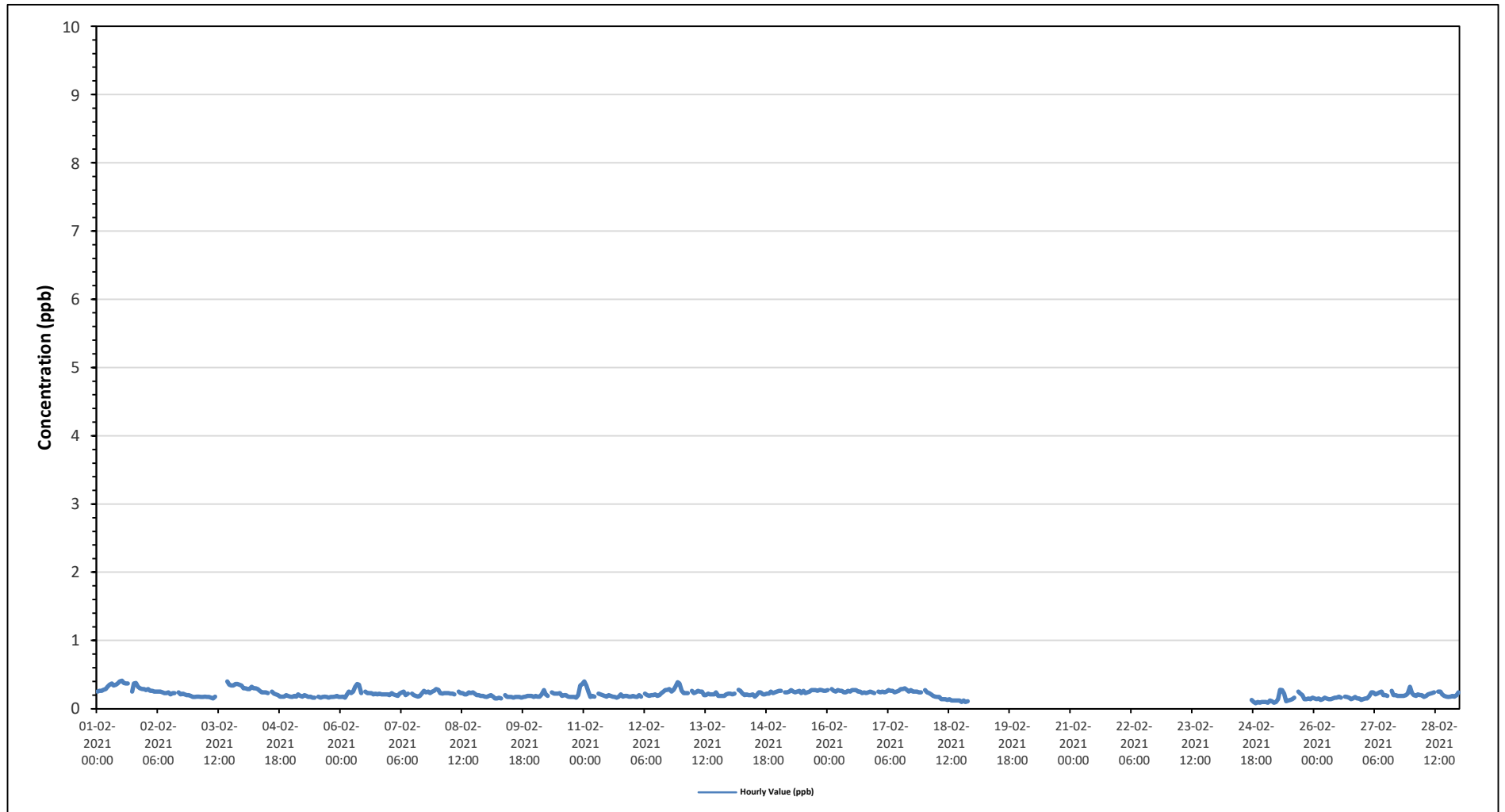
842b Station - February 2021

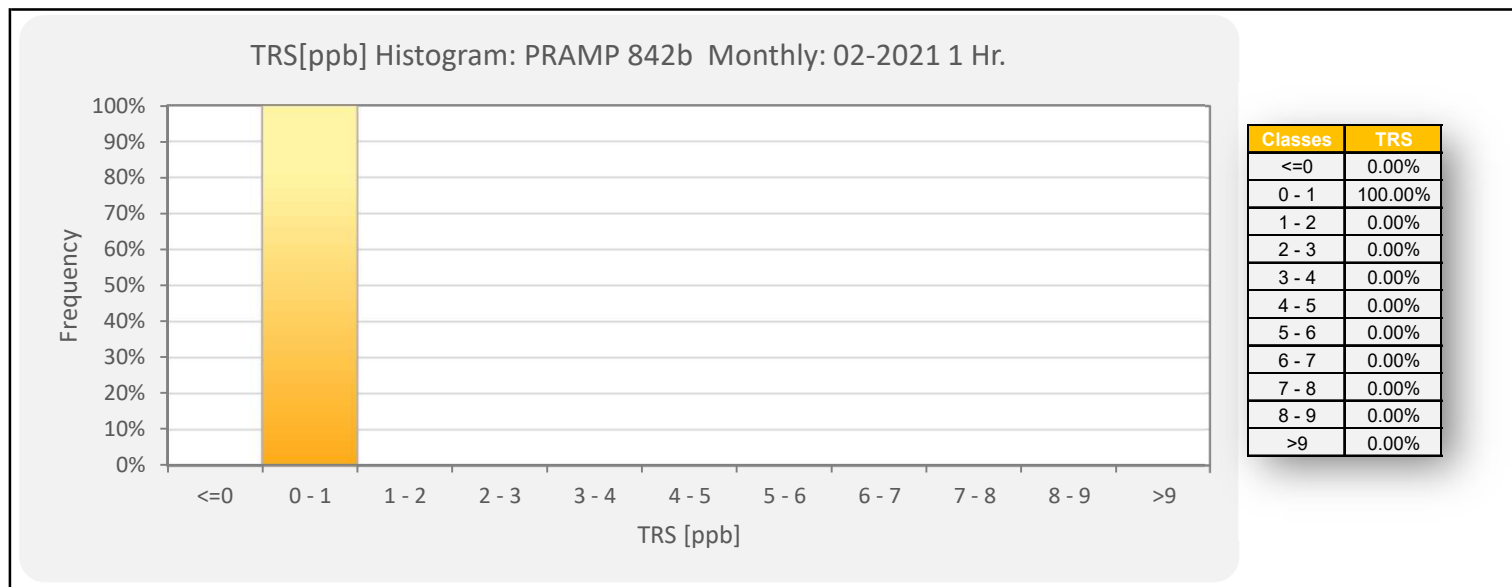
Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Alberta Ambient Air Quality Objectives (AAAQO) for H2S: 1-Hour 10 ppb, 24-Hour 3 ppb																												
Number of 1-Hour Exceedances: 0										Number of 24-Hour Exceedances: 0																		
Maximum Hourly Value: 0.41 ppb on February 1 at hour 12										Hours in Service: 672																		
Maximum Daily Value: 0.33 ppb on February 1										Hours of Data: 507																		
Minimum Hourly Value: 0.08 ppb on February 24 at hour 19										Hours of Missing Data: 138																		
Minimum Daily Value: 0.15 ppb on February 26										Hours of Calibration: 27																		
Monthly Average: 0.22 ppb										Operational Uptime: 79.5																		
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
Feb 1	0.25	0.26	0.26	0.28	0.29	0.32	0.35	0.37	0.34	0.35	0.37	0.4	0.41	0.38	0.37	0.37	0.37	0.25	0.37	0.38	0.32	0.3	0.29	0.29	0.25	0.41	0.33	
Feb 2	0.27	0.29	0.26	0.26	0.25	0.25	0.25	0.25	0.24	0.23	0.23	0.24	0.21	0.23	0.23	S	0.24	0.21	0.22	0.21	0.2	0.2	0.19	0.17	0.17	0.29	0.23	
Feb 3	0.17	0.18	0.18	0.17	0.17	0.18	0.17	0.17	0.16	0.15	0.18	C	C	C	C	C	0.4	0.35	0.34	0.34	0.36	0.36	0.35	0.34	0.15	0.40	0.25	
Feb 4	0.3	0.3	0.29	0.29	0.32	0.3	0.3	0.29	0.26	0.24	0.24	0.24	0.23	S	0.25	0.22	0.21	0.2	0.18	0.18	0.18	0.2	0.19	0.18	0.18	0.32	0.24	
Feb 5	0.17	0.19	0.18	0.21	0.19	0.18	0.2	0.19	0.17	0.18	0.16	0.16	S	0.18	0.16	0.17	0.18	0.17	0.16	0.17	0.17	0.18	0.19	0.17	0.16	0.21	0.18	
Feb 6	0.17	0.18	0.16	0.21	0.25	0.23	0.25	0.32	0.36	0.35	0.23	S	0.25	0.23	0.23	0.23	0.21	0.22	0.21	0.22	0.21	0.21	0.21	0.21	0.16	0.36	0.23	
Feb 7	0.2	0.23	0.21	0.2	0.19	0.22	0.24	0.25	0.2	0.22	S	0.22	0.2	0.19	0.18	0.19	0.23	0.26	0.24	0.25	0.23	0.25	0.26	0.29	0.18	0.29	0.22	
Feb 8	0.28	0.23	0.22	0.23	0.23	0.23	0.22	0.22	0.21	S	0.25	0.23	0.23	0.21	0.21	0.24	0.23	0.24	0.22	0.2	0.2	0.19	0.19	0.18	0.18	0.28	0.22	
Feb 9	0.17	0.19	0.2	0.18	0.15	0.15	0.16	0.15	S	0.2	0.17	0.17	0.17	0.16	0.17	0.17	0.17	0.16	0.17	0.18	0.19	0.19	0.19	0.17	0.15	0.20	0.17	
Feb 10	0.19	0.18	0.18	0.21	0.27	0.21	0.19	S	0.24	0.22	0.22	0.22	0.23	0.19	0.2	0.2	0.18	0.17	0.17	0.17	0.16	0.2	0.34	0.36	0.16	0.36	0.21	
Feb 11	0.4	0.34	0.25	0.17	0.19	0.18	S	0.22	0.21	0.2	0.19	0.18	0.2	0.19	0.18	0.17	0.16	0.18	0.21	0.18	0.19	0.19	0.18	0.18	0.16	0.40	0.21	
Feb 12	0.19	0.18	0.17	0.2	0.18	S	0.22	0.2	0.19	0.2	0.2	0.21	0.19	0.2	0.23	0.25	0.27	0.28	0.29	0.25	0.28	0.32	0.39	0.37	0.17	0.39	0.24	
Feb 13	0.26	0.23	0.23	0.23	S	0.26	0.23	0.24	0.26	0.25	0.25	0.2	0.2	0.22	0.21	0.21	0.21	0.24	0.19	0.19	0.19	0.19	0.21	0.22	0.19	0.26	0.22	
Feb 14	0.22	0.21	0.22	S	0.28	0.26	0.22	0.2	0.21	0.2	0.2	0.21	0.18	0.2	0.24	0.24	0.21	0.21	0.22	0.22	0.25	0.23	0.24	0.25	0.18	0.28	0.22	
Feb 15	0.26	0.26	S	0.24	0.24	0.25	0.27	0.25	0.24	0.25	0.26	0.23	0.26	0.23	0.24	0.25	0.27	0.27	0.27	0.27	0.26	0.28	0.27	0.26	0.23	0.28	0.26	
Feb 16	0.27	S	0.29	0.26	0.25	0.27	0.26	0.26	0.24	0.24	0.26	0.25	0.27	0.27	0.27	0.25	0.25	0.23	0.24	0.23	0.24	0.25	0.24	0.23	0.23	0.29	0.25	
Feb 17	S	0.25	0.24	0.25	0.24	0.25	0.27	0.26	0.26	0.24	0.25	0.26	0.29	0.29	0.3	0.28	0.25	0.27	0.25	0.25	0.25	0.24	0.24	S	0.24	0.30	0.26	
Feb 18	0.27	0.24	0.23	0.21	0.19	0.18	0.17	0.17	0.14	0.14	0.14	0.13	0.14	0.12	0.12	0.12	0.12	0.12	0.1	0.12	0.1	0.11	S	X	0.10	0.27	0.15	
Feb 19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
Feb 20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
Feb 21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
Feb 22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	
Feb 23	X	X	X	X	X	X	X	X	X	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	-	-	-	
Feb 24	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0.13	0.1	0.08	0.1	0.09	0.1	0.1	0.08	0.13	-
Feb 25	0.1	0.09	0.12	0.11	0.09	0.1	0.14	0.28	0.27	0.22	0.11	0.12	0.13	0.14	0.16	S	0.25	0.22	0.2	0.14	0.14	0.15	0.14	0.16	0.09	0.28	0.16	
Feb 26	0.15	0.14	0.15	0.13	0.14	0.16	0.15	0.14	0.14	0.15	0.16	0.16	0.18	0.16	S	0.18	0.17	0.16	0.14	0.15	0.17	0.15	0.15	0.13	0.13	0.18	0.15	
Feb 27	0.14	0.15	0.15	0.19	0.24	0.24	0.21	0.22	0.24	0.25	0.2	0.2	0.19	S	0.26	0.2	0.2	0.19	0.19	0.19	0.19	0.2	0.22	0.32	0.14	0.32	0.21	
Feb 28	0.23	0.2	0.19	0.21	0.2	0.2	0.17	0.19	0.21	0.22	0.23	0.24	S	0.25	0.25	0.21	0.19	0.18	0.17	0.18	0.19	0.18	0.2	0.24	0.17	0.25	0.21	
Diurnal Maximum	0.40	0.34	0.29	0.29	0.32	0.32	0.35	0.37	0.36	0.35	0.37	0.40	0.41	0.38	0.37	0.37	0.40	0.35	0.37	0.38	0.36	0.36	0.39	0.37				
Diurnal Average	0.22	0.22	0.21	0.21	0.22	0.22	0.22	0.23	0.23	0.22	0.21	0.21	0.22	0.21	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.23	0.23				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance											
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance											
X	InValid Data (Equipment Malfunction/Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																	P	Power Failure	
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

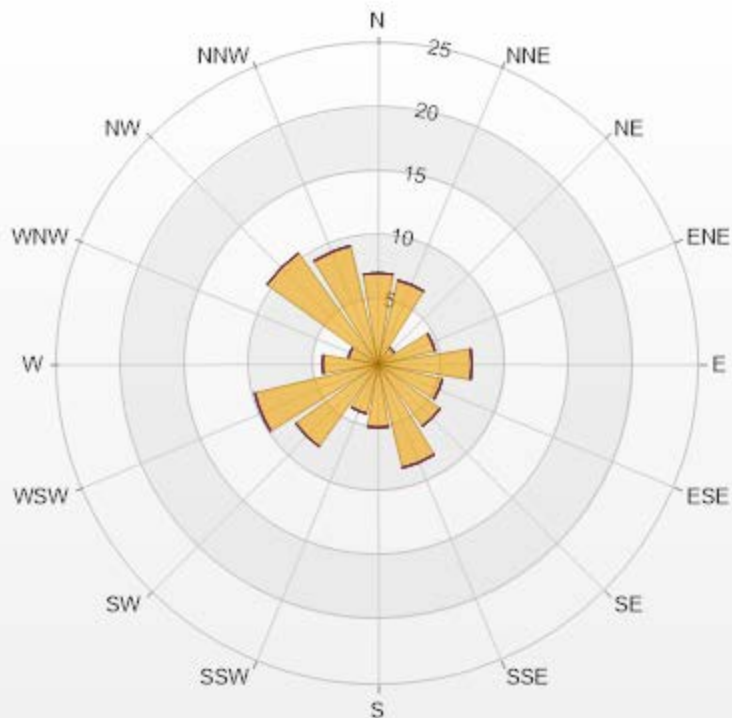
Timeseries Chart of Hourly Average for TRS - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-TRS[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 75.45% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	7.1	0	0	0	0	7.1
NNE	6.71	0	0	0	0	6.71
NE	1.58	0	0	0	0	1.58
ENE	4.54	0	0	0	0	4.54
E	7.3	0	0	0	0	7.3
ESE	5.13	0	0	0	0	5.13
SE	5.92	0	0	0	0	5.92
SSE	8.28	0	0	0	0	8.28
S	4.93	0	0	0	0	4.93
SSW	3.94	0	0	0	0	3.94
SW	7.89	0	0	0	0	7.89
WSW	9.86	0	0	0	0	9.86
W	4.34	0	0	0	0	4.34
WNW	2.37	0	0	0	0	2.37
NW	10.65	0	0	0	0	10.65
NNW	9.47	0	0	0	0	9.47
Summary	100	0	0	0	0	100



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% Icon Classes (ppb)

100 0-2

0 2-5

0 5-10

0 10-50

0 >50.0



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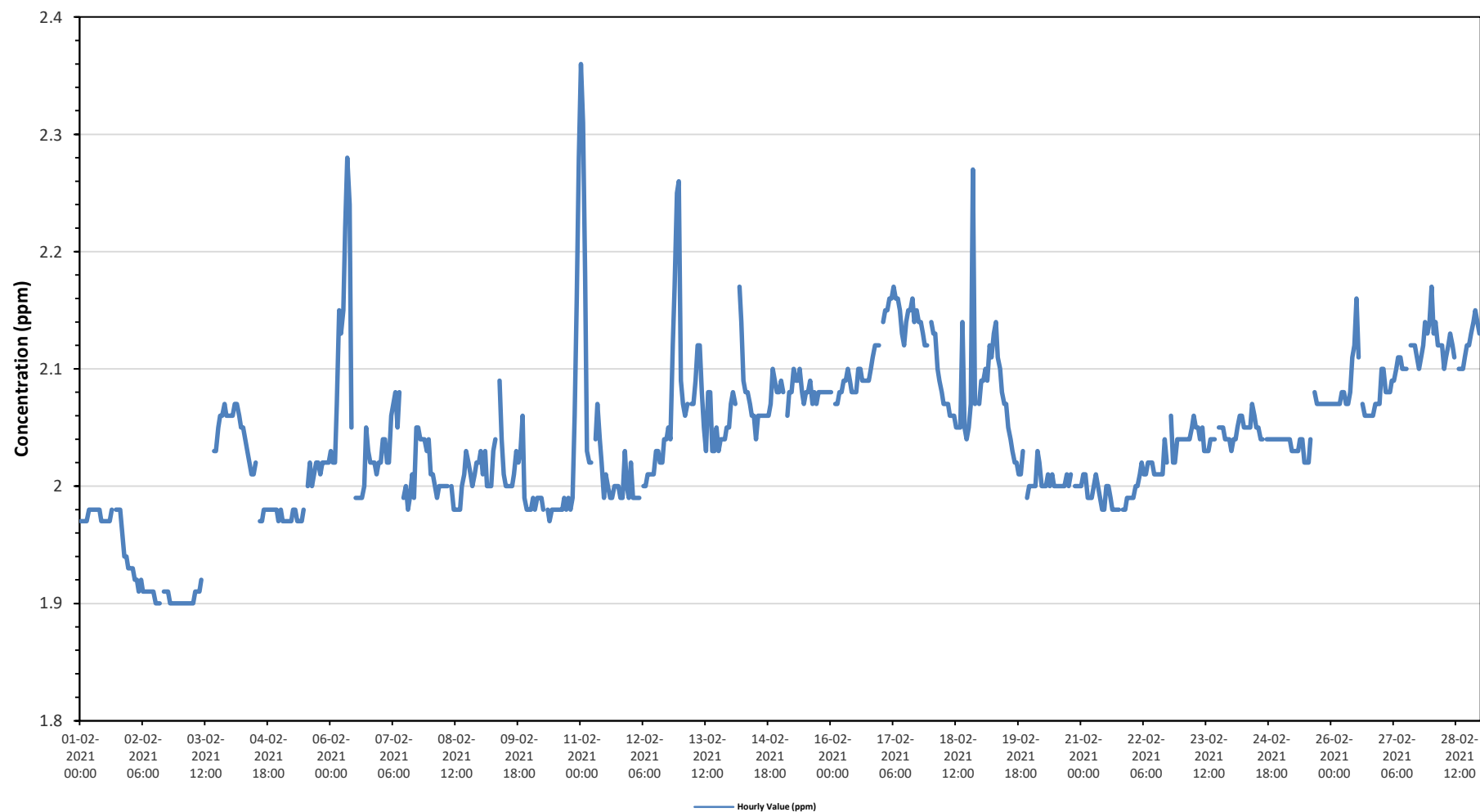
842b Station - February 2021

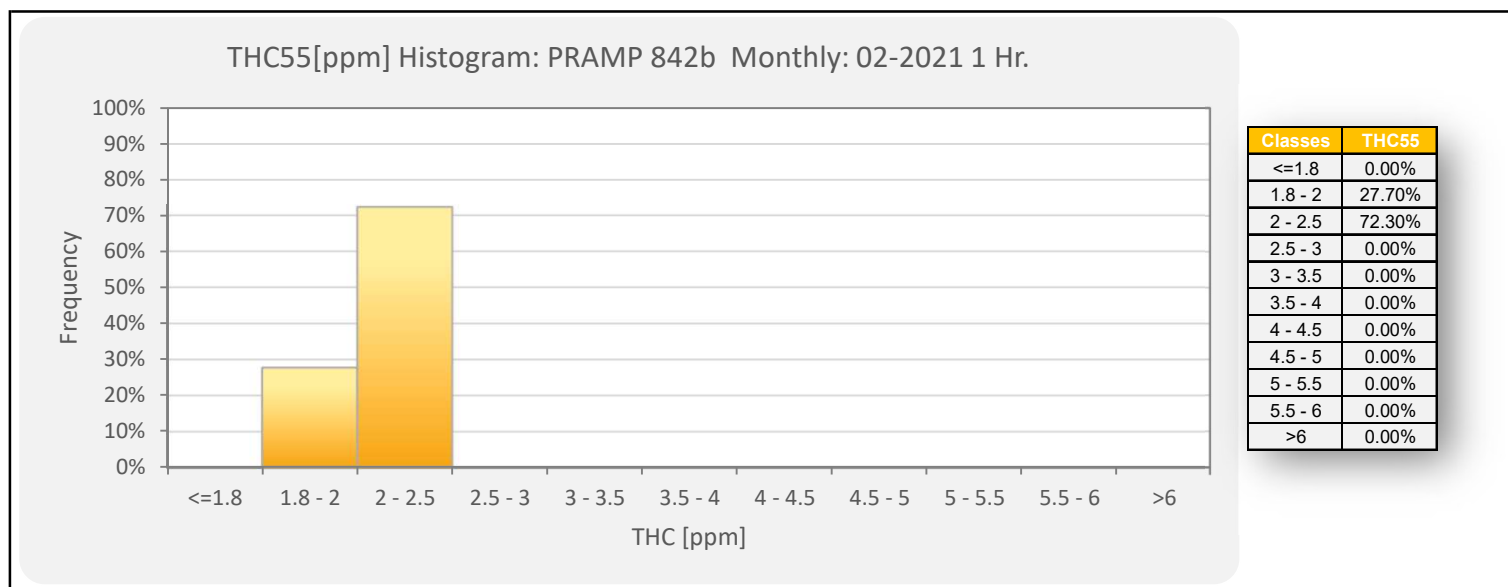
Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

Maximum Hourly Value:		2.36 ppm on February 11 at hour 0														Hours in Service:		672									
Maximum Daily Value:		2.15 ppm on February 17														Hours of Data:		639									
Minimum Hourly Value:		1.90 ppm on February 2 at hour 12														Hours of Missing Data:		0									
Minimum Daily Value:		1.91 ppm on February 2														Hours of Calibration:		33									
Monthly Average:		2.04 ppm														Operational Uptime:		100.0									
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.98	S	1.98	1.98	1.98	1.96	1.94	1.94	1.93	1.93	1.98	1.97
Feb 2	1.93	1.93	1.92	1.92	1.91	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	S	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.93	1.91
Feb 3	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.91	1.91	1.91	1.92	C	C	C	C	C	2.03	2.03	2.05	2.06	2.06	2.07	2.06	2.06	1.90	2.07	1.97
Feb 4	2.06	2.06	2.07	2.07	2.06	2.05	2.05	2.04	2.03	2.02	2.01	2.01	2.02	S	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	2.07	2.01
Feb 5	1.98	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.97	1.97	1.97	1.98	S	2.00	2.02	2.00	2.01	2.02	2.02	2.01	2.02	2.02	2.02	2.02	1.97	2.02	1.99
Feb 6	2.03	2.02	2.02	2.07	2.15	2.13	2.15	2.22	2.28	2.24	2.05	S	1.99	1.99	1.99	1.99	2.00	2.05	2.03	2.02	2.02	2.02	2.01	2.02	1.99	2.28	2.06
Feb 7	2.02	2.04	2.04	2.02	2.02	2.06	2.07	2.08	2.05	2.08	S	1.99	2.00	1.98	1.99	2.01	1.99	2.05	2.05	2.04	2.04	2.04	2.03	2.04	1.98	2.08	2.03
Feb 8	2.01	2.01	2.00	1.99	2.00	2.00	2.00	2.00	2.00	S	2.00	1.98	1.98	1.98	1.98	2.00	2.01	2.03	2.02	2.01	2.00	2.01	2.02	2.02	1.98	2.03	2.00
Feb 9	2.03	2.01	2.03	2.00	2.00	2.00	2.03	2.04	S	2.09	2.04	2.01	2.00	2.00	2.00	2.00	2.01	2.03	2.02	2.03	2.06	1.99	1.98	1.98	1.98	2.09	2.02
Feb 10	1.98	1.99	1.98	1.99	1.99	1.99	1.98	S	1.98	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.98	1.99	1.98	1.99	2.06	2.16	2.28	1.97	2.28	2.01
Feb 11	2.36	2.31	2.18	2.03	2.02	2.02	S	2.04	2.07	2.04	2.02	1.99	2.01	2.00	1.99	1.99	2.00	2.00	1.99	1.99	1.99	2.03	2.00	1.99	1.99	2.36	2.05
Feb 12	2.02	1.99	1.99	1.99	1.99	S	2.00	2.00	2.01	2.01	2.01	2.01	2.03	2.03	2.02	2.02	2.04	2.04	2.05	2.04	2.12	2.17	2.25	2.26	1.99	2.26	2.05
Feb 13	2.09	2.07	2.06	2.07	S	2.07	2.07	2.09	2.12	2.12	2.08	2.05	2.03	2.08	2.08	2.03	2.03	2.05	2.03	2.04	2.04	2.05	2.05	2.05	2.03	2.12	2.06
Feb 14	2.07	2.08	2.07	S	2.17	2.14	2.09	2.08	2.08	2.07	2.06	2.06	2.04	2.06	2.06	2.06	2.06	2.06	2.06	2.07	2.10	2.09	2.08	2.08	2.04	2.17	2.08
Feb 15	2.09	2.08	S	2.06	2.08	2.08	2.10	2.09	2.09	2.10	2.08	2.07	2.08	2.08	2.09	2.07	2.08	2.07	2.08	2.08	2.08	2.08	2.08	2.08	2.06	2.10	2.08
Feb 16	2.08	S	2.07	2.07	2.08	2.08	2.09	2.09	2.10	2.09	2.08	2.08	2.08	2.10	2.10	2.09	2.09	2.09	2.09	2.10	2.11	2.12	2.12	2.12	2.07	2.12	2.09
Feb 17	S	2.14	2.15	2.15	2.16	2.16	2.17	2.16	2.16	2.15	2.13	2.12	2.14	2.15	2.15	2.16	2.14	2.15	2.14	2.14	2.13	2.12	2.12	S	2.12	2.17	2.15
Feb 18	2.14	2.13	2.13	2.10	2.09	2.08	2.07	2.07	2.07	2.06	2.06	2.06	2.05	2.05	2.05	2.14	2.05	2.04	2.05	2.07	2.27	2.07	S	2.07	2.04	2.27	2.09
Feb 19	2.09	2.09	2.10	2.09	2.12	2.11	2.13	2.14	2.11	2.10	2.08	2.07	2.07	2.05	2.04	2.03	2.02	2.02	2.01	2.01	2.03	S	1.99	2.00	1.99	2.14	2.07
Feb 20	2.00	2.00	2.00	2.03	2.02	2.00	2.00	2.00	2.01	2.00	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.01	S	2.00	2.00	2.00	2.00	2.03	2.00
Feb 21	2.00	2.01	2.01	1.99	1.99	1.99	2.00	2.01	2.00	1.99	1.98	1.98	2.00	2.00	1.99	1.98	1.98	1.98	1.98	S	1.98	1.98	1.99	1.99	1.98	2.01	1.99
Feb 22	1.99	1.99	2.00	2.00	2.01	2.02	2.01	2.01	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.04	2.02	S	2.06	2.02	2.02	2.04	2.04	1.99	2.06	2.02
Feb 23	2.04	2.04	2.04	2.04	2.04	2.05	2.06	2.05	2.05	2.04	2.05	2.03	2.03	2.03	2.04	2.04	2.04	S	2.05	2.05	2.05	2.04	2.04	2.04	2.03	2.06	2.04
Feb 24	2.03	2.04	2.04	2.05	2.06	2.06	2.05	2.05	2.05	2.05	2.07	2.06	2.05	2.05	2.04	2.04	S	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.07	2.05
Feb 25	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.04	2.04	2.02	2.02	2.02	2.04	S	2.08	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.02	2.08	2.05
Feb 26	2.07	2.07	2.07	2.07	2.07	2.08	2.08	2.07	2.07	2.08	2.11	2.12	2.16	2.11	S	2.07	2.06	2.06	2.06	2.06	2.06	2.07	2.07	2.07	2.06	2.16	2.08
Feb 27	2.10	2.10	2.08	2.08	2.08	2.09	2.09	2.10	2.11	2.11	2.10	2.10	2.10	S	2.12	2.12	2.12	2.11	2.10	2.11	2.12	2.14	2.13	2.14	2.08	2.14	2.11
Feb 28	2.17	2.13	2.14	2.12	2.12	2.12	2.10	2.11	2.12	2.13	2.12	2.11	S	2.10	2.10	2.10	2.11	2.12	2.12	2.13	2.14	2.15	2.14	2.13	2.10	2.17	2.12
Diurnal Maximum	2.36	2.31	2.18	2.15	2.17	2.16	2.17	2.22	2.28	2.24	2.13	2.12	2.16	2.15	2.15	2.16	2.14	2.15	2.14	2.14	2.27	2.17	2.25	2.28			
Diurnal Average	2.05	2.04	2.04	2.03	2.04	2.04	2.04	2.05	2.05	2.05	2.04	2.03	2.03	2.03	2.03	2.04	2.03	2.04	2.04	2.04	2.05	2.05	2.05	2.05			
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance										
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance										
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

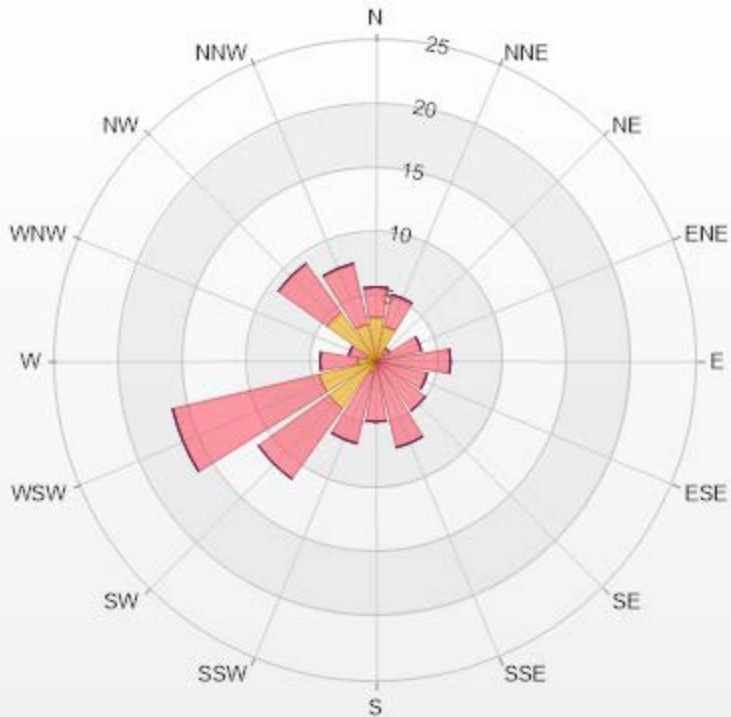
Timeseries Chart of Hourly Average for THC - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-THC55[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.09% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	3.44	2.35	0	0	0	5.79
NNE	2.82	2.5	0	0	0	5.32
NE	0.78	0.47	0	0	0	1.25
ENE	0	3.6	0	0	0	3.6
E	0.16	5.63	0	0	0	5.79
ESE	0.31	3.76	0	0	0	4.07
SE	0.16	4.54	0	0	0	4.7
SSE	0.16	6.73	0	0	0	6.89
S	0	4.69	0	0	0	4.69
SSW	0.94	5.63	0	0	0	6.57
SW	4.54	6.73	0	0	0	11.27
WSW	4.54	11.74	0	0	0	16.28
W	1.41	2.97	0	0	0	4.38
WNW	0.78	1.41	0	0	0	2.19
NW	4.69	4.69	0	0	0	9.38
NNW	2.97	4.85	0	0	0	7.82
Summary	27.7	72.29	0	0	0	100



PRAMP-202102



PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2021

Summary of Hourly Averages

METHANE (CH4) in ppm

Maximum Hourly Value:	2.36 ppm on February 11 at hour 0	Hours in Service:	672
Maximum Daily Value:	2.15 ppm on February 17	Hours of Data:	639
Minimum Hourly Value:	1.90 ppm on February 2 at hour 12	Hours of Missing Data:	0
Minimum Daily Value:	1.91 ppm on February 2	Hours of Calibration:	33
Monthly Average:	2.04 ppm	Operational Uptime:	100.0

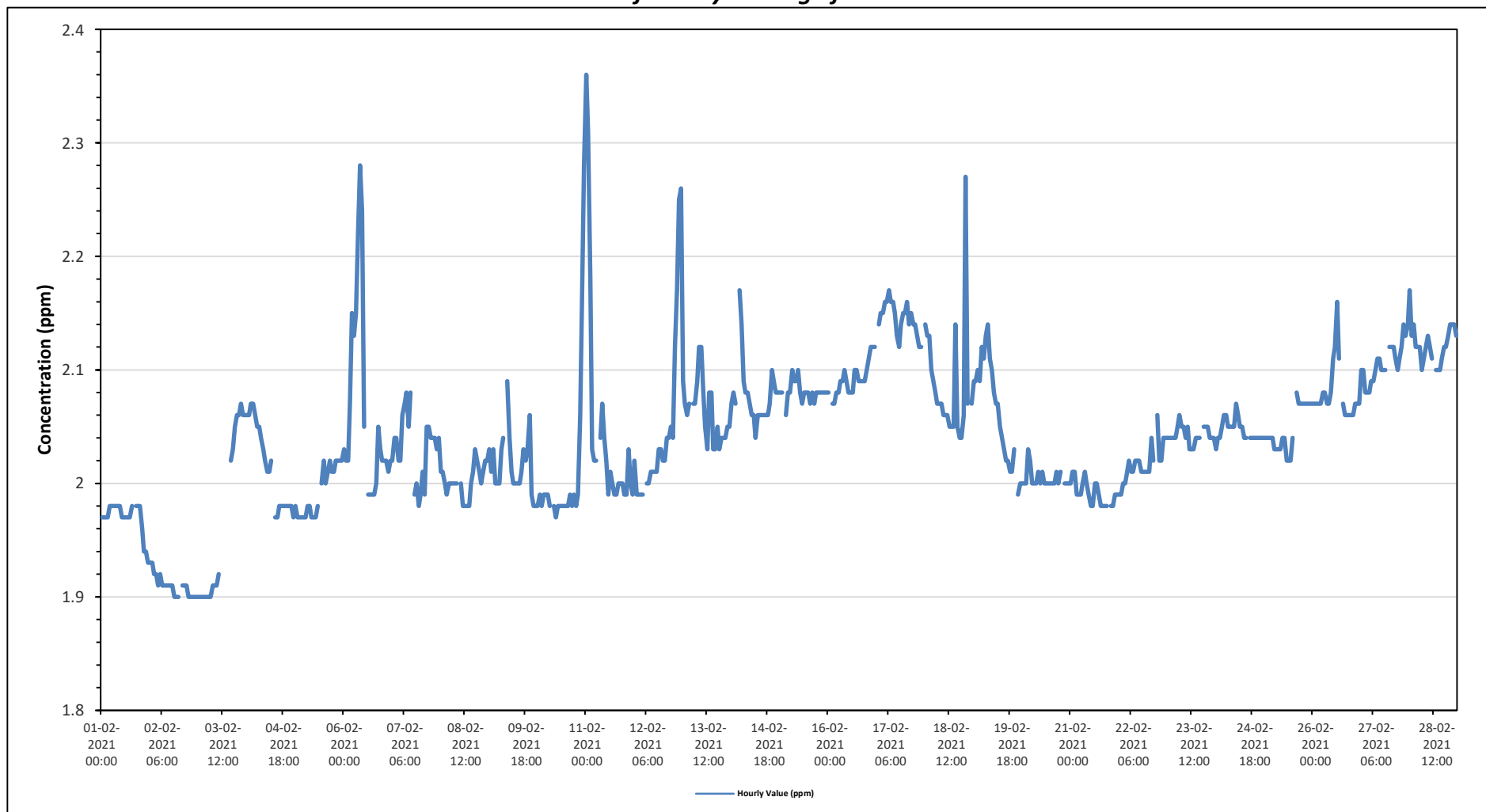
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.98	S	1.98	1.98	1.98	1.96	1.94	1.94	1.93	1.93	1.98	1.97
Feb 2	1.93	1.93	1.92	1.92	1.91	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	S	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.91	1.91
Feb 3	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.91	1.91	1.91	1.92	C	C	C	C	C	2.02	2.03	2.05	2.06	2.06	2.07	2.06	2.06	1.90	2.07	1.97
Feb 4	2.06	2.06	2.07	2.07	2.06	2.05	2.05	2.04	2.03	2.02	2.01	2.01	2.02	S	1.97	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	2.07	2.01
Feb 5	1.98	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.97	1.97	1.98	S	2.00	2.02	2.00	2.01	2.02	2.01	2.01	2.02	2.02	2.02	2.02	1.97	2.02	1.99
Feb 6	2.03	2.02	2.02	2.07	2.15	2.13	2.15	2.22	2.28	2.24	2.05	S	1.99	1.99	1.99	1.99	2.00	2.05	2.03	2.02	2.02	2.02	2.01	2.02	1.99	2.28	2.06
Feb 7	2.02	2.04	2.04	2.02	2.02	2.06	2.07	2.08	2.05	2.08	S	1.99	2.00	1.98	1.99	2.01	1.99	2.05	2.05	2.04	2.04	2.04	2.03	2.04	1.98	2.08	2.03
Feb 8	2.01	2.01	2.00	1.99	2.00	2.00	2.00	2.00	2.00	S	2.00	1.98	1.98	1.98	1.98	2.00	2.01	2.03	2.02	2.01	2.00	2.01	2.02	2.02	1.98	2.03	2.00
Feb 9	2.03	2.01	2.03	2.00	2.00	2.00	2.03	2.04	S	2.09	2.04	2.01	2.00	2.00	2.00	2.00	2.01	2.03	2.02	2.03	2.06	1.99	1.98	1.98	1.98	2.09	2.02
Feb 10	1.98	1.99	1.98	1.99	1.99	1.99	1.98	S	1.98	1.97	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.98	1.99	1.98	1.99	2.06	2.16	2.28	1.97	2.28	2.01
Feb 11	2.36	2.31	2.18	2.03	2.02	2.02	S	2.04	2.07	2.04	2.02	1.99	2.01	2.00	1.99	1.99	2.00	2.00	1.99	1.99	1.99	2.03	2.00	1.99	1.99	2.36	2.05
Feb 12	2.02	1.99	1.99	1.99	1.99	S	2.00	2.00	2.01	2.01	2.01	2.01	2.03	2.03	2.02	2.02	2.04	2.04	2.05	2.04	2.12	2.17	2.25	2.26	1.99	2.26	2.05
Feb 13	2.09	2.07	2.06	2.07	S	2.07	2.07	2.09	2.12	2.12	2.08	2.05	2.03	2.08	2.08	2.03	2.03	2.05	2.03	2.04	2.04	2.05	2.05	2.05	2.03	2.12	2.06
Feb 14	2.07	2.08	2.07	S	2.17	2.14	2.09	2.08	2.08	2.07	2.06	2.06	2.04	2.06	2.06	2.06	2.06	2.06	2.06	2.07	2.10	2.09	2.08	2.08	2.04	2.17	2.08
Feb 15	2.08	2.08	S	2.06	2.08	2.08	2.10	2.09	2.09	2.10	2.08	2.07	2.08	2.08	2.08	2.07	2.08	2.07	2.08	2.08	2.08	2.08	2.08	2.08	2.06	2.10	2.08
Feb 16	2.08	S	2.07	2.07	2.08	2.08	2.09	2.09	2.10	2.09	2.08	2.08	2.08	2.10	2.10	2.09	2.09	2.09	2.09	2.10	2.11	2.12	2.12	2.12	2.07	2.12	2.09
Feb 17	S	2.14	2.15	2.15	2.16	2.16	2.17	2.16	2.16	2.15	2.13	2.12	2.14	2.15	2.15	2.16	2.14	2.15	2.14	2.14	2.13	2.12	2.12	S	2.12	2.17	2.15
Feb 18	2.14	2.13	2.13	2.10	2.09	2.08	2.07	2.07	2.07	2.06	2.06	2.06	2.05	2.05	2.05	2.14	2.05	2.04	2.04	2.06	2.27	2.07	S	2.07	2.04	2.27	2.08
Feb 19	2.09	2.09	2.10	2.09	2.12	2.11	2.13	2.14	2.11	2.10	2.08	2.07	2.07	2.05	2.04	2.03	2.02	2.02	2.01	2.01	2.03	S	1.99	2.00	1.99	2.14	2.07
Feb 20	2.00	2.00	2.00	2.03	2.02	2.00	2.00	2.00	2.01	2.00	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.00	2.01	S	2.00	2.00	2.00	2.00	2.03	2.00
Feb 21	2.00	2.01	2.01	1.99	1.99	1.99	2.00	2.01	2.00	1.99	1.98	1.98	2.00	2.00	1.99	1.98	1.98	1.98	1.98	S	1.98	1.98	1.99	1.99	1.98	2.01	1.99
Feb 22	1.99	1.99	2.00	2.00	2.01	2.02	2.01	2.01	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.01	2.04	2.02	S	2.06	2.02	2.02	2.04	2.04	1.99	2.06	2.02
Feb 23	2.04	2.04	2.04	2.04	2.04	2.05	2.06	2.05	2.05	2.05	2.04	2.05	2.03	2.03	2.03	2.04	2.04	2.04	S	2.05	2.05	2.05	2.04	2.04	2.03	2.06	2.04
Feb 24	2.03	2.04	2.04	2.05	2.06	2.06	2.05	2.05	2.05	2.05	2.07	2.06	2.05	2.05	2.04	2.04	S	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.07	2.05
Feb 25	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	2.03	2.04	2.04	2.02	2.02	2.02	2.04	S	2.08	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.02	2.08	2.05
Feb 26	2.07	2.07	2.07	2.07	2.07	2.08	2.08	2.07	2.07	2.08	2.11	2.12	2.16	2.11	S	2.07	2.06	2.06	2.06	2.06	2.06	2.07	2.07	2.07	2.06	2.16	2.08
Feb 27	2.10	2.10	2.08	2.08	2.08	2.09	2.09	2.10	2.11	2.11	2.10	2.10	2.10	S	2.12	2.12	2.12	2.11	2.10	2.11	2.12	2.14	2.13	2.14	2.08	2.14	2.11
Feb 28	2.17	2.13	2.14	2.12	2.12	2.12	2.10	2.11	2.12	2.13	2.12	2.11	S	2.10	2.10	2.10	2.11	2.12	2.12	2.13	2.14	2.14	2.14	2.13	2.10	2.17	2.12
Diurnal Maximum	2.36	2.31	2.18	2.15	2.17	2.16	2.17	2.22	2.28	2.24	2.13	2.12	2.16	2.15	2.15	2.16	2.14	2.15	2.14	2.14	2.27	2.17	2.25	2.28			
Diurnal Average	2.05	2.04	2.04	2.03	2.04	2.04	2.04	2.05	2.05	2.05	2.04	2.03	2.03	2.03	2.03	2.04	2.03	2.04	2.04	2.04	2.05	2.05	2.05	2.05			

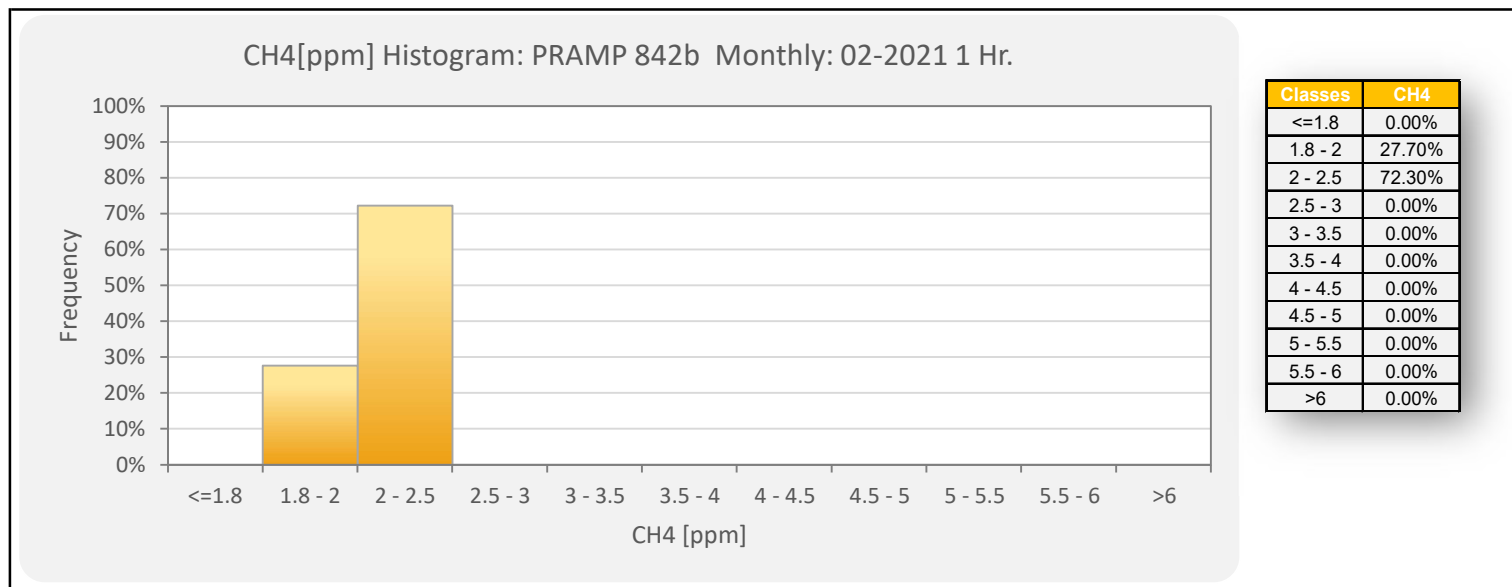
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance	P Power Failure
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)			

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

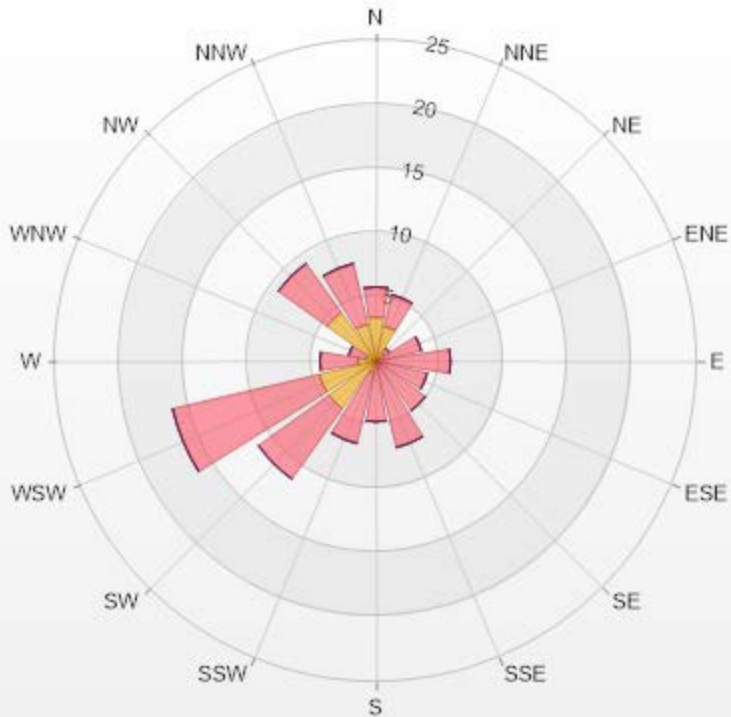
Timeseries Chart of Hourly Average for CH4 - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-CH4[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.09% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	3.44	2.35	0	0	0	5.79
NNE	2.82	2.5	0	0	0	5.32
NE	0.78	0.47	0	0	0	1.25
ENE	0	3.6	0	0	0	3.6
E	0.16	5.63	0	0	0	5.79
ESE	0.31	3.76	0	0	0	4.07
SE	0.16	4.54	0	0	0	4.7
SSE	0.16	6.73	0	0	0	6.89
S	0	4.69	0	0	0	4.69
SSW	0.94	5.63	0	0	0	6.57
SW	4.54	6.73	0	0	0	11.27
WSW	4.54	11.74	0	0	0	16.28
W	1.41	2.97	0	0	0	4.38
WNW	0.78	1.41	0	0	0	2.19
NW	4.69	4.69	0	0	0	9.38
NNW	2.97	4.85	0	0	0	7.82
Summary	27.7	72.29	0	0	0	100



PRAMP-202102



PEACE RIVER AREA MONITORING PROGRAM

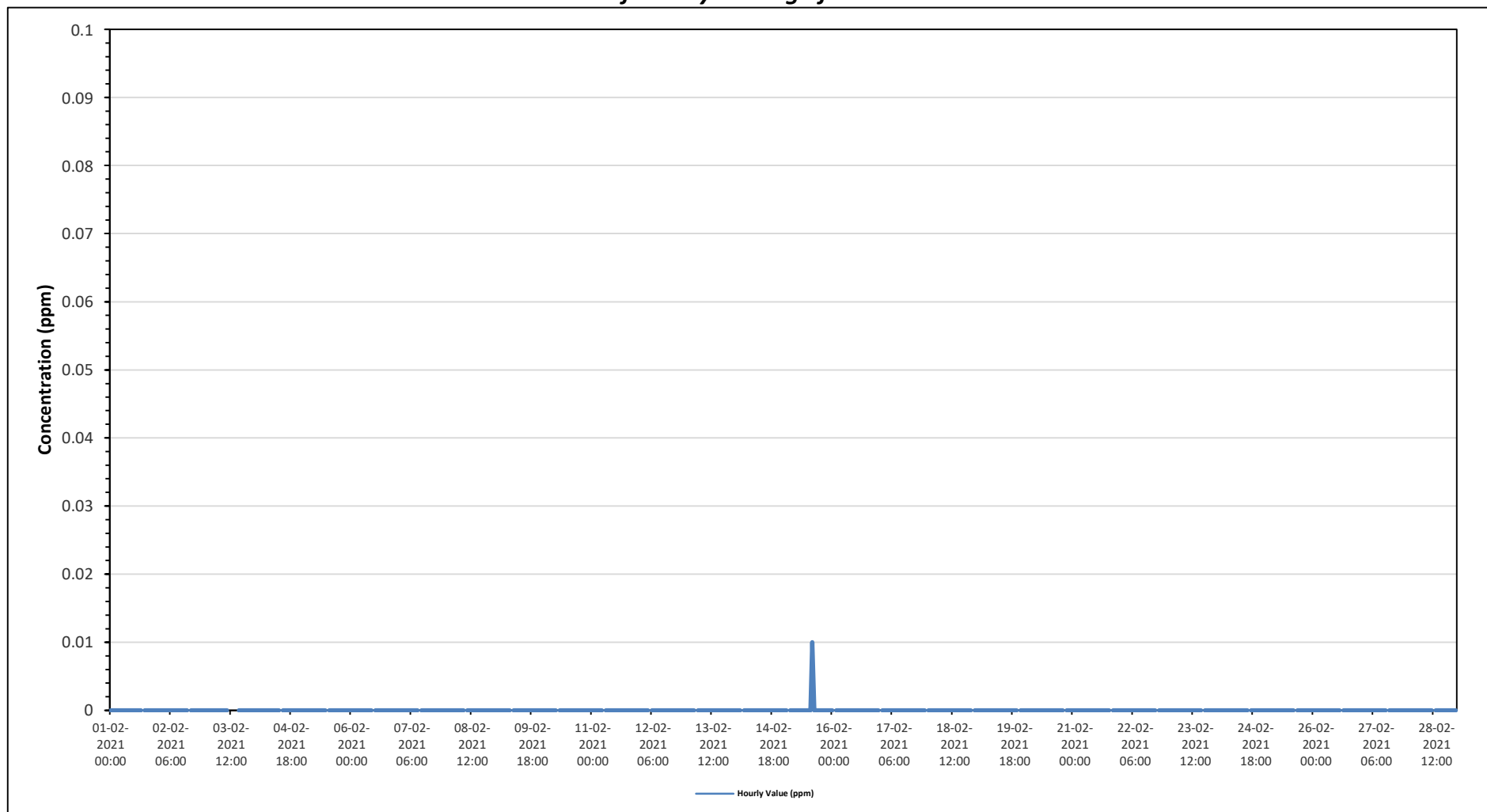
842b Station - February 2021

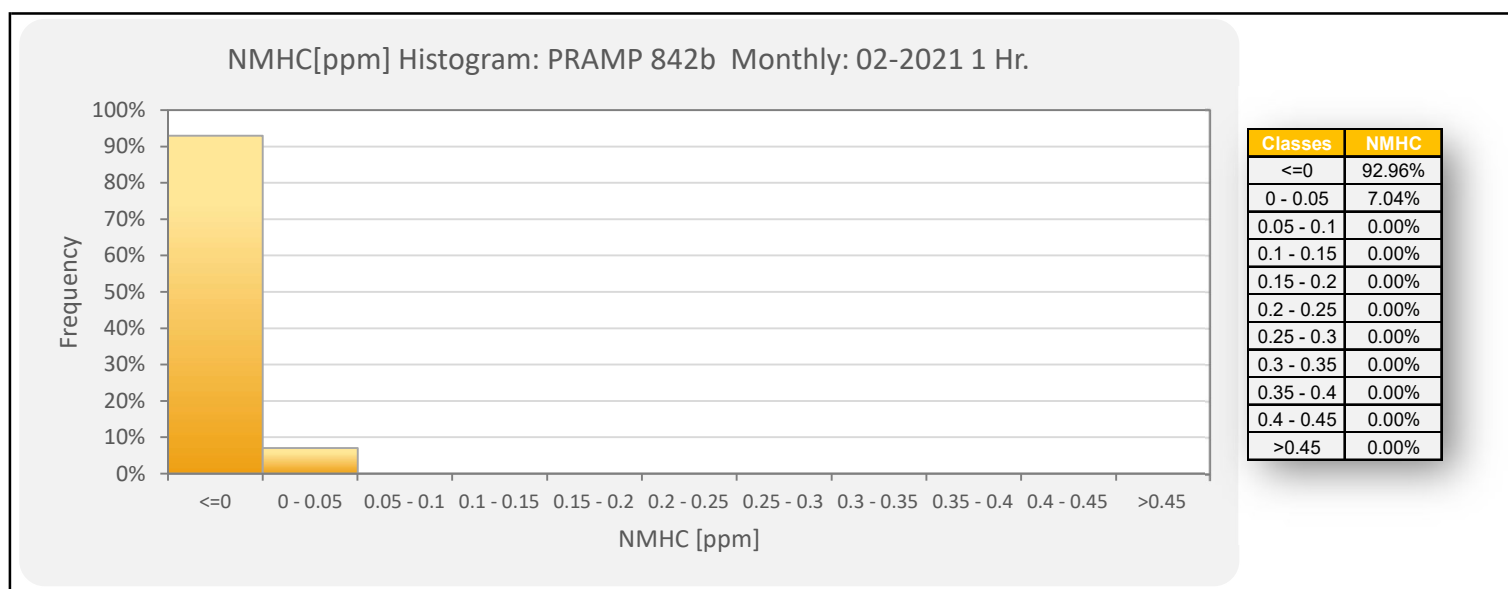
Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

Maximum Hourly Value:										0.01 ppm on February 15 at hour 14										Hours in Service:										672		
Maximum Daily Value:										0.00 ppm on February 15										Hours of Data:										639		
Minimum Hourly Value:										0.00 ppm on February 1 at hour 0										Hours of Missing Data:										0		
Minimum Daily Value:										0.00 ppm on February 1										Hours of Calibration:										33		
Monthly Average:										0.00 ppm										Operational Uptime:										100.0		
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23					
Feb 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 11	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 12	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 13	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 14	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 15	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 16	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 17	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00					
Feb 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00					
Feb 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00					
Feb 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Diurnal Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Diurnal Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance															
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance															
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																							
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																

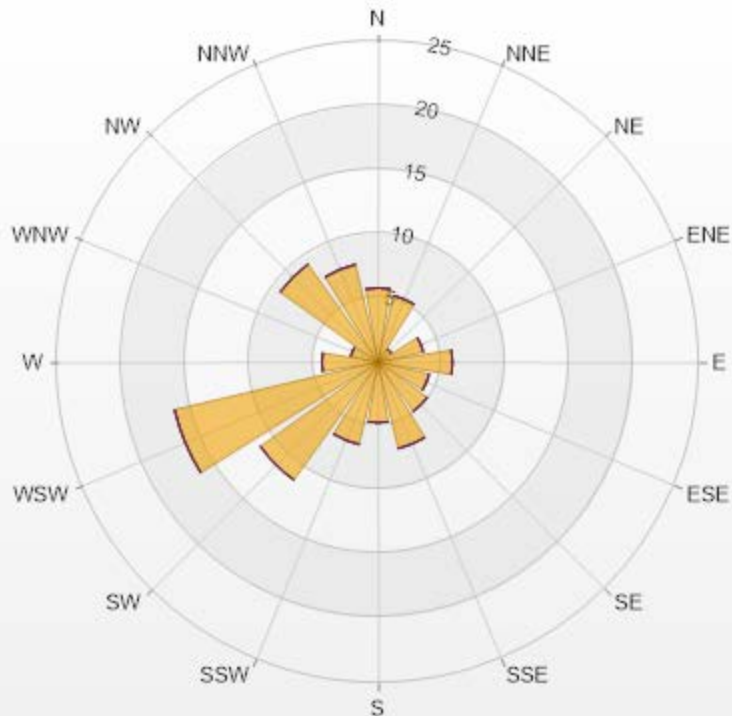
Timeseries Chart of Hourly Average for NMHC - 842b Station





Wind: PRAMP 842b Poll.: PRAMP 842b-NMHC[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.09% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-0.9	0.9-2	>2.0	Total
N	5.79	0	0	0	0	5.79
NNE	5.32	0	0	0	0	5.32
NE	1.25	0	0	0	0	1.25
ENE	3.6	0	0	0	0	3.6
E	5.79	0	0	0	0	5.79
ESE	4.07	0	0	0	0	4.07
SE	4.69	0	0	0	0	4.69
SSE	6.89	0	0	0	0	6.89
S	4.69	0	0	0	0	4.69
SSW	6.57	0	0	0	0	6.57
SW	11.27	0	0	0	0	11.27
WSW	16.28	0	0	0	0	16.28
W	4.38	0	0	0	0	4.38
WNW	2.19	0	0	0	0	2.19
NW	9.39	0	0	0	0	9.39
NNW	7.82	0	0	0	0	7.82
Summary	100	0	0	0	0	100



PRAMP-202102

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% Icon Classes (ppm)

100 0-0.1

0 0.1-0.3

0 0.3-0.9

0 0.9-2

0 >2.0



PEACE RIVER AREA MONITORING PROGRAM

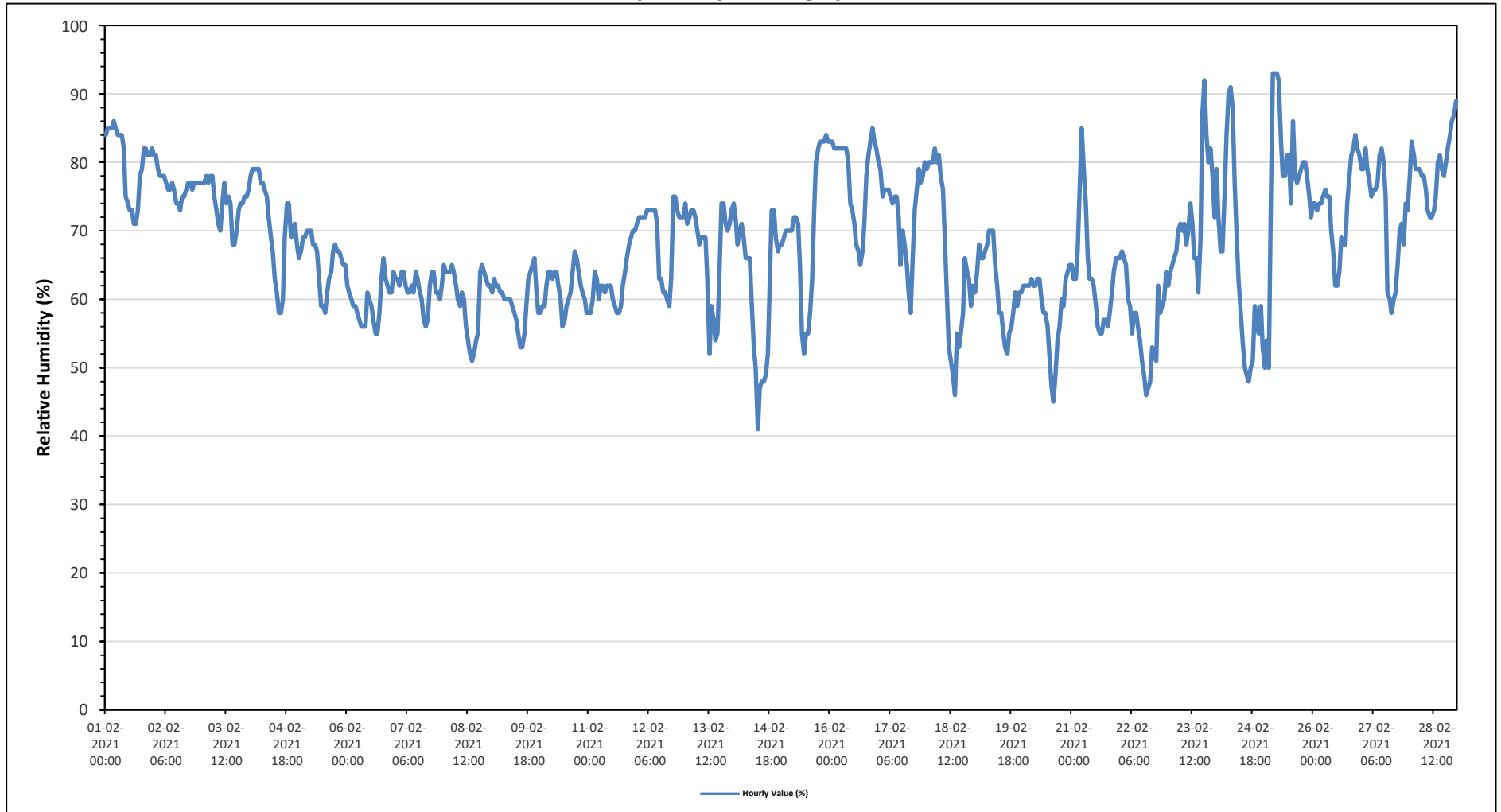
842b Station - February 2021

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:					93	%	on February 25 at hour 4										Hours in Service:					672					
Maximum Daily Value:					80.0	%	on February 1										Hours of Data:					672					
Minimum Hourly Value:					41	%	on February 14 at hour 12										Hours of Missing Data:					0					
Minimum Daily Value:					56.8	%	on February 22										Hours of Calibration:					0					
Monthly Average:					67.8	%											Operational Uptime:					100.0					
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
Feb 1	84	85	85	85	86	85	84	84	84	82	75	74	73	73	71	71	73	78	79	82	82	81	81	82	71	86	80.0
Feb 2	81	81	79	78	78	78	77	76	76	77	76	74	74	73	75	75	76	77	77	76	77	77	77	77	73	81	76.8
Feb 3	77	77	78	77	78	78	75	73	71	70	74	77	74	75	74	68	68	70	73	74	74	75	75	76	68	78	74.2
Feb 4	78	79	79	79	79	77	77	76	75	72	69	67	63	61	58	58	60	69	74	74	69	70	71	68	58	79	70.9
Feb 5	66	67	69	69	70	70	70	68	68	67	63	59	59	58	61	63	64	67	68	67	67	66	65	65	58	70	65.7
Feb 6	62	61	60	59	59	58	57	56	56	56	61	60	59	57	55	55	58	63	66	63	62	61	61	64	55	66	59.5
Feb 7	63	63	62	64	64	62	61	61	62	61	64	63	61	60	57	56	57	62	64	64	61	61	60	62	56	64	61.5
Feb 8	65	64	64	64	65	64	62	60	59	61	60	56	54	52	51	52	54	55	64	65	64	63	62	62	51	65	60.1
Feb 9	61	63	62	62	61	61	60	60	60	60	59	58	57	55	53	53	55	59	63	64	65	66	61	58	53	66	59.8
Feb 10	58	59	59	62	64	64	63	64	64	62	60	56	57	59	60	61	64	67	66	64	62	61	60	58	56	67	61.4
Feb 11	58	58	60	64	63	60	62	62	61	62	62	62	60	59	58	58	59	62	64	66	68	69	70	70	58	70	62.4
Feb 12	71	72	72	72	72	73	73	73	73	73	71	63	63	61	61	60	59	63	75	75	73	72	72	72	59	75	69.3
Feb 13	74	71	72	73	73	72	70	68	69	69	69	63	52	59	57	54	55	64	74	74	71	70	71	73	52	74	67.4
Feb 14	74	72	68	70	71	69	66	66	66	60	53	50	41	47	48	48	49	52	63	73	73	69	67	68	41	74	61.8
Feb 15	68	69	70	70	70	70	72	72	71	65	55	52	55	55	58	63	73	80	82	83	83	83	84	83	52	84	70.3
Feb 16	83	83	82	82	82	82	82	82	80	74	73	71	68	67	65	67	71	78	81	83	85	83	82	65	85	77.8	
Feb 17	80	79	75	76	76	76	75	74	75	75	72	65	70	68	65	61	58	66	73	76	79	77	78	80	58	80	72.9
Feb 18	79	80	80	80	82	80	81	78	76	69	60	53	51	49	46	55	53	55	58	66	64	63	59	62	46	82	65.8
Feb 19	61	64	68	66	66	67	68	70	70	70	65	62	58	58	55	53	52	55	56	58	61	59	61	61	52	70	61.8
Feb 20	62	62	62	62	63	62	63	63	60	58	58	56	52	47	45	49	54	56	60	59	63	64	65	65	45	65	58.6
Feb 21	65	63	63	67	76	85	79	74	66	63	63	62	59	56	55	55	57	57	56	58	61	64	66	66	55	85	64.0
Feb 22	66	67	66	65	60	59	55	58	58	56	54	51	49	46	47	48	53	52	51	62	58	59	60	64	46	67	56.8
Feb 23	62	64	65	66	67	70	71	70	71	68	70	74	71	66	66	61	69	87	92	84	80	82	78	72	61	92	71.9
Feb 24	79	72	67	67	76	84	90	91	88	77	69	63	58	54	50	49	48	50	51	59	57	55	59	53	48	91	65.3
Feb 25	50	54	50	74	93	93	93	92	83	78	78	81	81	74	86	78	77	78	79	80	80	78	75	72	50	93	77.4
Feb 26	74	74	73	74	74	75	76	75	75	70	67	62	62	64	69	68	68	74	78	81	82	84	82	81	62	84	73.4
Feb 27	79	79	82	79	77	75	76	76	77	81	82	80	75	61	60	58	60	61	65	70	71	68	74	73	58	82	72.5
Feb 28	78	83	81	79	79	79	78	78	76	73	72	72	73	75	80	81	79	78	80	82	84	86	87	89	72	89	79.3
Diurnal Maximum	84	85	85	85	93	93	93	92	88	82	82	81	81	75	86	81	79	87	92	84	84	86	87	89			
Diurnal Average	69.9	70.2	69.8	70.9	72.3	72.4	72.0	71.4	70.5	68.5	66.3	63.9	62.0	60.5	60.4	59.7	61.2	65.2	68.8	70.8	70.4	70.3	70.1	69.9			
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance										
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance										
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

Timeseries Chart of Hourly Average for RH - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

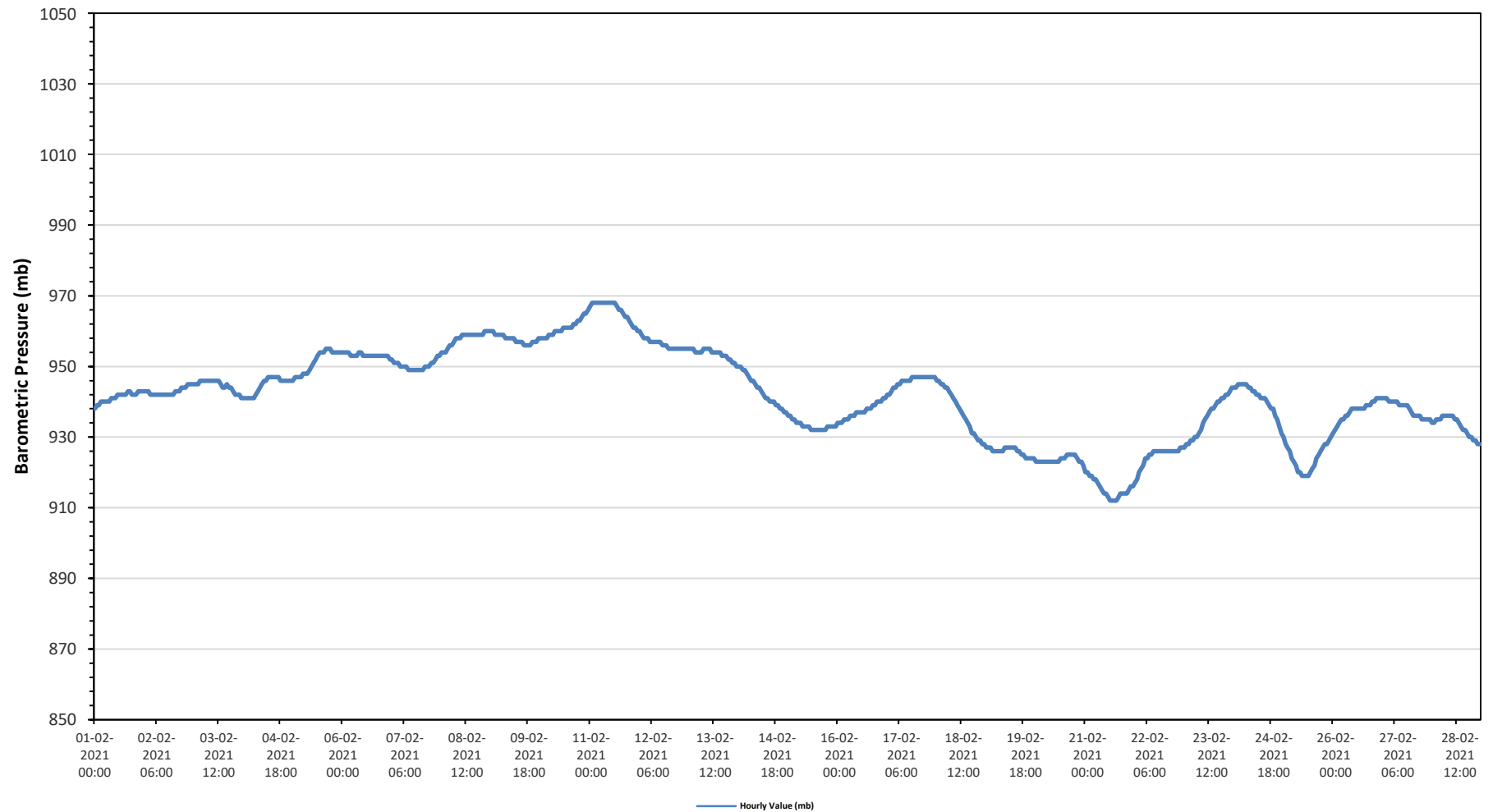
842b Station - February 2021

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:					968	mb	on February 11 at hour 1										Hours in Service:					672						
Maximum Daily Value:					966	mb	on February 11										Hours of Data:					672						
Minimum Hourly Value:					912	mb	on February 21 at hour 12										Hours of Missing Data:					0						
Minimum Daily Value:					915	mb	on February 21										Hours of Calibration:					0						
Monthly Average:					942	mb											Operational Uptime:					100.0						
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average	
Feb 1	938	939	939	940	940	940	940	940	941	941	941	942	942	942	942	942	943	943	942	942	942	943	943	943	938	943	941.3	
Feb 2	943	943	943	942	942	942	942	942	942	942	942	942	942	942	942	943	943	943	944	944	944	945	945	945	942	945	942.9	
Feb 3	945	945	945	946	946	946	946	946	946	946	946	946	946	946	945	944	944	945	944	944	943	942	942	942	941	941	946	944.6
Feb 4	941	941	941	941	941	941	942	943	944	945	946	946	946	947	947	947	947	947	947	946	946	946	946	946	946	941	947	944.6
Feb 5	946	947	947	947	947	948	948	948	949	950	951	952	953	954	954	954	955	955	955	954	954	954	954	954	946	955	951.3	
Feb 6	954	954	954	954	953	953	953	953	954	954	953	953	953	953	953	953	953	953	953	953	953	953	953	952	952	954	953.2	
Feb 7	952	951	951	951	950	950	950	950	949	949	949	949	949	949	949	949	950	950	950	951	951	952	953	953	949	953	950.3	
Feb 8	954	954	954	955	956	956	957	958	958	958	959	959	959	959	959	959	959	959	959	959	959	959	960	960	954	960	957.9	
Feb 9	960	960	959	959	959	959	959	958	958	958	958	958	957	957	957	957	956	956	956	956	957	957	957	958	956	960	957.8	
Feb 10	958	958	958	958	959	959	959	960	960	960	960	961	961	961	961	961	962	962	963	963	964	965	965	966	958	966	961.0	
Feb 11	967	968	968	968	968	968	968	968	968	968	968	968	968	967	966	966	965	964	964	963	962	961	961	960	960	968	965.9	
Feb 12	960	959	958	958	958	957	957	957	957	957	957	956	956	956	955	955	955	955	955	955	955	955	955	955	955	960	956.4	
Feb 13	955	955	955	954	954	954	954	955	955	955	955	954	954	954	954	954	953	953	953	952	952	951	951	950	950	955	953.6	
Feb 14	950	950	949	949	948	947	946	946	945	944	944	943	942	941	941	940	940	940	939	939	938	938	937	937	937	937	950	943.0
Feb 15	936	936	935	935	934	934	934	933	933	933	933	932	932	932	932	932	932	932	932	933	933	933	933	933	932	936	933.2	
Feb 16	934	934	934	935	935	935	936	936	936	937	937	937	937	937	938	938	938	939	939	940	940	940	941	941	934	941	937.3	
Feb 17	942	942	943	944	944	945	945	946	946	946	946	947	947	947	947	947	947	947	947	947	947	947	947	947	942	947	945.8	
Feb 18	946	946	945	945	944	944	943	942	941	940	939	938	937	936	935	934	933	931	931	930	929	929	928	928	928	946	937.3	
Feb 19	927	927	927	926	926	926	926	926	926	927	927	927	927	927	927	926	926	925	925	924	924	924	924	924	924	927	925.9	
Feb 20	923	923	923	923	923	923	923	923	923	923	923	923	924	924	924	925	925	925	925	925	924	923	923	922	922	925	923.5	
Feb 21	920	920	919	919	918	918	917	916	915	914	914	913	912	912	912	912	913	914	914	914	914	915	916	916	912	920	915.3	
Feb 22	917	918	920	921	922	924	924	925	925	926	926	926	926	926	926	926	926	926	926	926	926	926	927	927	917	927	924.5	
Feb 23	927	928	928	929	929	930	930	931	932	934	935	936	937	938	938	939	940	940	941	941	942	942	943	944	927	944	935.6	
Feb 24	944	944	945	945	945	945	945	944	944	943	943	942	942	941	941	941	940	939	938	938	936	935	933	931	931	945	941.0	
Feb 25	930	928	927	926	924	923	922	920	920	919	919	919	919	920	921	922	924	925	926	927	928	928	929	930	919	930	924.0	
Feb 26	931	932	933	934	935	935	936	936	937	938	938	938	938	938	938	938	939	939	939	940	940	941	941	941	931	941	937.3	
Feb 27	941	941	941	940	940	940	940	940	939	939	939	939	939	938	937	936	936	936	936	935	935	935	935	935	935	941	938.0	
Feb 28	934	934	935	935	935	936	936	936	936	936	936	935	935	934	933	932	932	931	930	930	929	929	928	928	928	936	933.1	
Diurnal Maximum	967	968	968	968	968	968	968	968	968	968	968	968	968	967	966	966	965	964	964	963	964	965	965	966				
Diurnal Average	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance											
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure			
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

Timeseries Chart of Hourly Average for BP - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

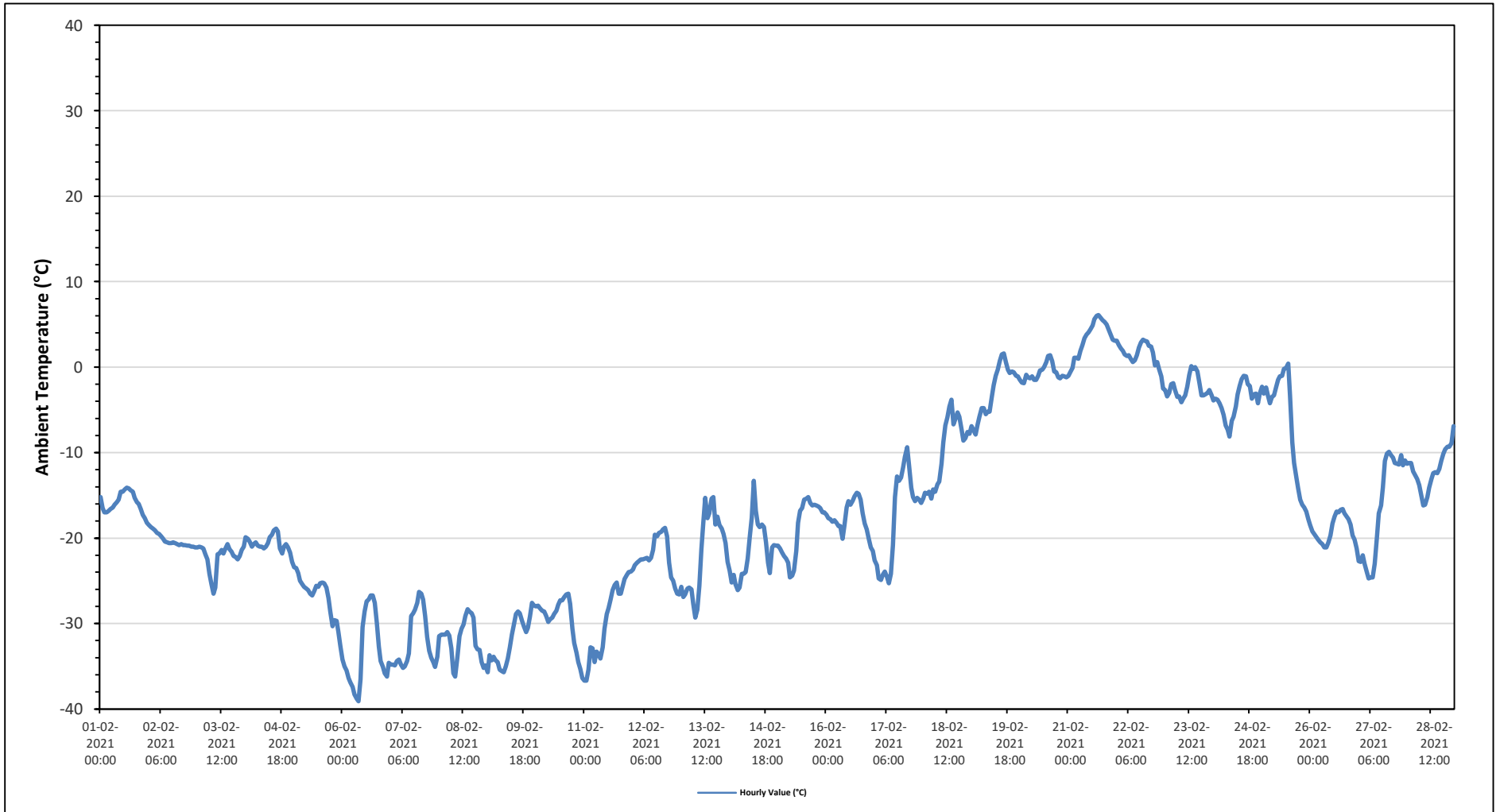
842b Station - February 2021

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:		6.1	°C	on February 21 at hour 15												Hours in Service:		672										
Maximum Daily Value:		3.4	°C	on February 21												Hours of Data:		672										
Minimum Hourly Value:		-39.1	°C	on February 6 at hour 8												Hours of Missing Data:		0										
Minimum Daily Value:		-33.4	°C	on February 6												Hours of Calibration:		0										
Monthly Average:		-17.3	°C													Operational Uptime:		100.0										
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Feb 1	-15.2	-16.5	-17	-17	-16.8	-16.6	-16.4	-16.1	-15.8	-15.5	-14.6	-14.6	-14.3	-14.1	-14.2	-14.4	-14.6	-15.3	-15.8	-16	-16.6	-17.3	-17.7	-18.2	-18.2	-14.1	-15.9	
Feb 2	-18.5	-18.7	-18.9	-19.1	-19.4	-19.5	-19.8	-20.1	-20.4	-20.5	-20.6	-20.6	-20.5	-20.6	-20.7	-20.8	-20.7	-20.8	-20.8	-20.9	-20.9	-21	-21	-21.1	-21.1	-18.5	-20.2	
Feb 3	-21.1	-21	-21.1	-21.2	-21.9	-22.5	-24.2	-25.4	-26.5	-25.8	-21.9	-21.8	-21.4	-21.8	-21.2	-20.7	-21.3	-21.6	-22.1	-22.2	-22.5	-22.1	-21.4	-21	-26.5	-20.7	-22.2	
Feb 4	-19.9	-20.1	-20.4	-21	-20.7	-20.5	-20.9	-21	-21	-21.2	-21	-20.6	-19.9	-19.6	-19.1	-18.9	-19.2	-21.2	-21.8	-21	-20.7	-21.1	-21.7	-22.8	-22.8	-18.9	-20.6	
Feb 5	-23.4	-23.5	-24.1	-25	-25.4	-25.7	-25.9	-26.1	-26.5	-26.7	-26.2	-25.6	-25.7	-25.3	-25.2	-25.3	-25.8	-27	-28.6	-30.3	-29.6	-29.7	-31	-32.7	-32.7	-23.4	-26.7	
Feb 6	-34.2	-35	-35.5	-36.4	-36.9	-37.4	-38.3	-38.8	-39.1	-36.5	-30.4	-28.6	-27.4	-27.2	-26.7	-26.7	-27.6	-29.9	-32.7	-34.4	-35.1	-35.8	-36.2	-34.6	-39.1	-26.7	-33.4	
Feb 7	-34.8	-34.8	-34.9	-34.4	-34.2	-34.8	-35.2	-35	-34.4	-33.5	-29.1	-28.8	-28.4	-27.6	-26.3	-26.5	-27.2	-29.1	-31.6	-33.2	-34	-34.5	-35.1	-33.9	-35.2	-26.3	-32.1	
Feb 8	-31.5	-31.3	-31.3	-31.3	-31	-31.4	-32.9	-35.8	-36.2	-33.9	-31.5	-30.6	-30.1	-29.1	-28.3	-28.6	-28.8	-29.3	-32.6	-33	-33.1	-34.5	-35.2	-34.9	-36.2	-28.3	-31.9	
Feb 9	-35.7	-33.7	-34.3	-33.9	-34.3	-34.5	-35.4	-35.6	-35.7	-35	-34.1	-32.8	-31.3	-30.1	-28.9	-28.6	-28.8	-29.7	-30.3	-31	-30.5	-29.2	-27.6	-27.9	-35.7	-27.6	-32.0	
Feb 10	-28	-27.9	-28.2	-28.5	-28.6	-29.1	-29.8	-29.5	-29.3	-28.9	-28.5	-27.8	-27.3	-27.3	-26.9	-26.6	-26.5	-27.7	-30.6	-32.3	-33.4	-34.5	-35.3	-36.4	-36.4	-26.5	-29.5	
Feb 11	-36.7	-36.7	-35.4	-32.8	-32.9	-34.5	-33.3	-33.6	-34.1	-32.8	-30.6	-28.9	-28.2	-27.2	-26.1	-25.5	-25.2	-26.5	-26.5	-25.6	-24.8	-24.3	-24	-23.9	-36.7	-23.9	-29.6	
Feb 12	-23.7	-23.2	-22.9	-22.7	-22.5	-22.5	-22.4	-22.3	-22.6	-22.3	-21.4	-19.6	-19.8	-19.4	-19.3	-19	-18.8	-19.8	-22.9	-24.6	-25	-25.9	-26.5	-26.6	-26.6	-18.8	-22.3	
Feb 13	-25.7	-26.9	-26.6	-25.9	-25.8	-26	-27.7	-29.3	-28.4	-25.6	-21.3	-18	-15.3	-17.7	-17.1	-15.4	-15.2	-18.4	-17.5	-18.5	-18.9	-19.5	-20.6	-22.8	-29.3	-15.2	-21.8	
Feb 14	-23.8	-25.2	-24.3	-25.4	-26.1	-25.8	-24.2	-24.2	-24	-22.4	-19.9	-17.6	-13.3	-16.8	-18.4	-18.7	-18.4	-18.7	-20.5	-22.9	-24.1	-21.1	-20.8	-20.9	-26.1	-13.3	-21.6	
Feb 15	-20.9	-21.2	-21.7	-22.1	-22.4	-22.9	-24.6	-24.4	-23.8	-21.5	-18.2	-16.8	-16.5	-15.5	-15.4	-15.2	-15.9	-16.2	-16.1	-16.2	-16.3	-16.5	-17	-17	-24.6	-15.2	-18.9	
Feb 16	-17.3	-17.7	-17.8	-18.1	-17.9	-18.2	-18.6	-18.6	-20.1	-18.6	-16.4	-15.7	-16.1	-15.6	-15.1	-14.7	-14.8	-15.5	-17.1	-18.3	-19	-20.1	-21.1	-21.5	-21.5	-14.7	-17.7	
Feb 17	-22.6	-23.2	-24.7	-24.9	-24.3	-23.9	-24.5	-25.3	-24.2	-20.8	-15.2	-12.8	-13.3	-12.9	-11.7	-10.5	-9.4	-11.4	-14.1	-15.2	-15.7	-15.3	-15.5	-15.9	-25.3	-9.4	-17.8	
Feb 18	-15.4	-14.7	-14.8	-14.6	-15.4	-14.3	-14.6	-13.7	-13.4	-11.3	-8.8	-6.8	-5.9	-4.6	-3.8	-6.7	-6.1	-5.3	-5.8	-7.3	-8.6	-8.3	-7.6	-7.8	-15.4	-3.8	-9.8	
Feb 19	-6.9	-7.4	-7.9	-6.7	-5.8	-4.8	-4.8	-5.5	-5.2	-5.2	-3.4	-2.1	-1	-0.3	0.7	1.5	1.6	0.6	-0.3	-0.7	-0.5	-0.6	-1	-1.1	-7.9	1.6	-2.8	
Feb 20	-1.5	-1.8	-1.9	-0.9	-1.2	-1.3	-1.1	-1.5	-1.5	-1	-0.4	-0.3	0	0.6	1.3	1.4	0.7	-0.5	-0.6	-1.2	-1.3	-1	-1.1	-1.2	-1.9	1.4	-0.7	
Feb 21	-1	-0.6	-0.1	1.1	1.1	1	1.9	2.6	3.4	3.8	4.1	4.4	4.9	5.6	6	6.1	5.8	5.5	5.3	5	4.4	3.8	3.2	3.1	-1.0	6.1	3.4	
Feb 22	3.1	2.6	2.2	1.9	1.5	1.3	1.4	0.9	0.6	0.8	1.4	2.3	2.9	3.2	3.1	3	2.5	2.4	1.7	0.2	0.6	-0.2	-1.1	-2.5	-2.5	3.2	1.5	
Feb 23	-2.7	-3.4	-3	-2	-1.9	-2.7	-3.5	-3.4	-4.1	-3.7	-3.3	-2.3	-0.9	0.1	-0.2	0	-0.5	-1.9	-3.3	-3.3	-3.2	-3	-2.7	-3.3	-4.1	0.1	-2.4	
Feb 24	-3.9	-3.7	-3.8	-4.2	-4.8	-5.6	-6.8	-7.3	-8.1	-6.3	-5.8	-4.6	-3.2	-2.2	-1.4	-1	-1.1	-2	-2.2	-3.7	-3.2	-3.1	-4.2	-3.1	-8.1	-1.0	-4.0	
Feb 25	-2.3	-3.1	-2.4	-3.3	-4.2	-3.5	-3.3	-2.4	-1.5	-1.1	-1	-0.2	-0.1	0.4	-3.3	-8.8	-11.2	-12.9	-14.2	-15.5	-16.1	-16.4	-16.9	-17.8	-17.8	0.4	-6.7	
Feb 26	-18.5	-19.2	-19.5	-19.9	-20.2	-20.5	-20.7	-21.1	-21.1	-20.5	-19.7	-18.3	-17.5	-16.9	-17	-16.7	-16.6	-17.1	-17.5	-17.8	-18.4	-19.7	-20.2	-21.2	-21.2	-16.6	-19.0	
Feb 27	-22.7	-22.8	-22	-23	-24	-24.7	-24.6	-24.6	-23	-19.8	-17.1	-16.2	-14.1	-11	-10.1	-9.9	-10.3	-10.6	-11.2	-11.3	-11.4	-10.3	-11.5	-10.9	-24.7	-9.9	-16.5	
Feb 28	-11.3	-11.2	-11.2	-12.2	-12.6	-13.1	-13.8	-15	-16.2	-16.1	-15.2	-14.1	-13.1	-12.4	-12.3	-12.4	-11.9	-10.9	-10.1	-9.6	-9.3	-9.3	-8.9	-6.9	-16.2	-6.9	-12.0	
Diurnal Maximum	3.1	2.6	2.2	1.9	1.5	1.3	1.9	2.6	3.4	3.8	4.1	4.4	4.9	5.6	6.0	6.1	5.8	5.5	5.3	5.0	4.4	3.8	3.2	3.1				
Diurnal Average	-18.4	-18.6	-18.7	-18.7	-18.9	-19.1	-19.4	-19.7	-19.7	-18.6	-16.8	-15.7	-14.9	-14.5	-14.2	-14.3	-14.5	-15.4	-16.4	-17.2	-17.4	-17.5	-17.8	-18.0				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance											
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure			
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

Timeseries Chart of Hourly Average for AT - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

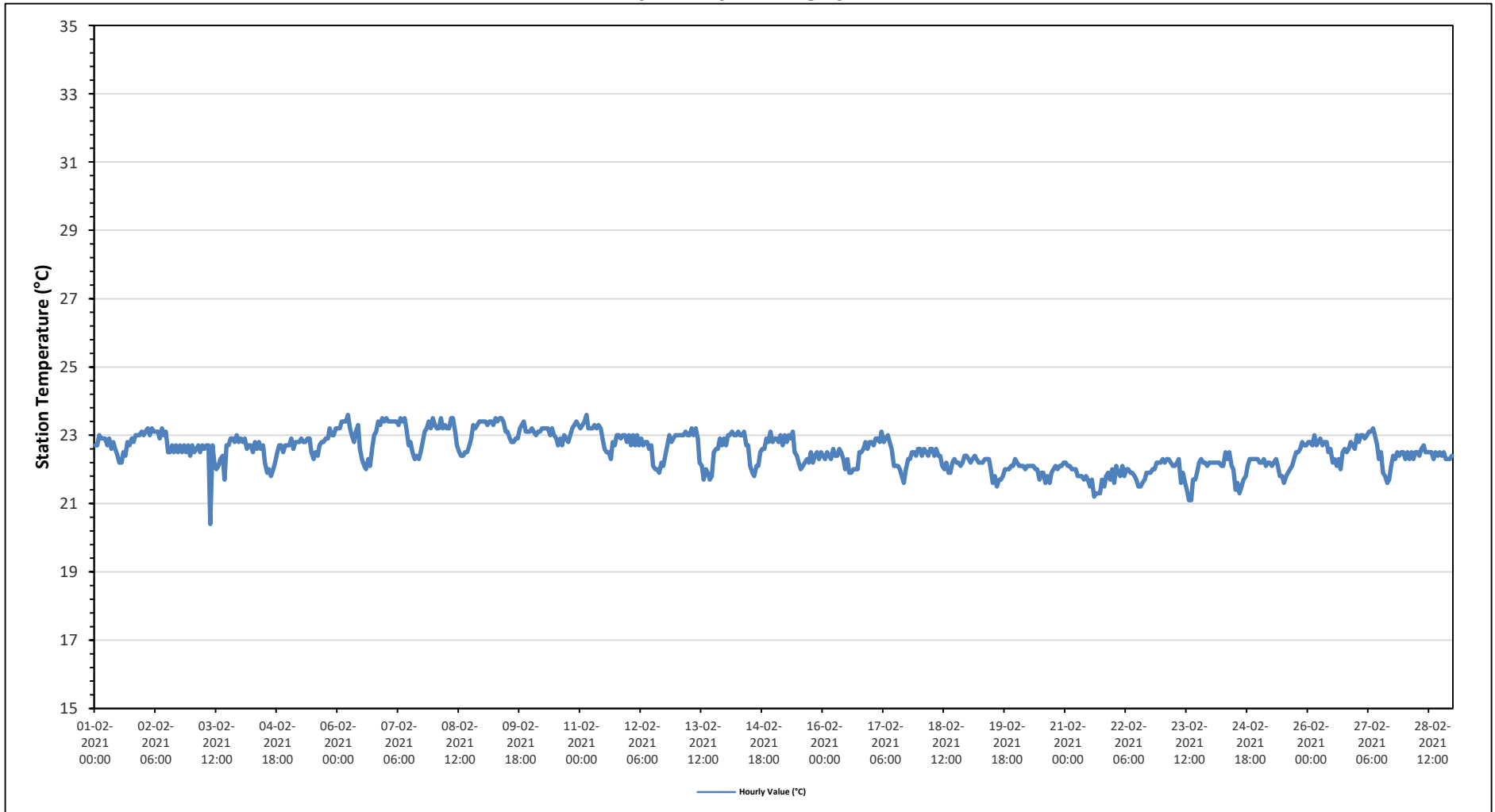
842b Station - February 2021

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:										23.6	°C	on February 6 at hour 5										Hours in Service:										672			
Maximum Daily Value:										23.2	°C	on February 9										Hours of Data:										672			
Minimum Hourly Value:										20.4	°C	on February 3 at hour 9										Hours of Missing Data:										0			
Minimum Daily Value:										21.7	°C	on February 21										Hours of Calibration:										0			
Monthly Average:										22.5	°C											Operational Uptime:										100.0			
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average								
Feb 1	22.7	22.7	23.0	22.9	22.9	22.9	22.7	22.9	22.6	22.8	22.6	22.4	22.2	22.2	22.5	22.4	22.8	22.7	22.9	22.8	23.0	23.0	23.0	23.1	22.2	23.1	22.7								
Feb 2	23.0	23.1	23.2	23.0	23.2	23.1	23.1	23.1	22.9	23.2	23.0	23.1	22.5	22.5	22.7	22.5	22.7	22.5	22.7	22.5	22.7	22.5	22.7	22.4	22.4	23.2	22.8								
Feb 3	22.7	22.5	22.6	22.7	22.5	22.7	22.6	22.7	22.7	20.4	22.7	22.2	22.0	22.1	22.3	22.4	21.7	22.7	22.7	22.9	22.9	22.8	23.0	22.8	20.4	23.0	22.5								
Feb 4	22.9	22.8	22.9	22.6	22.7	22.7	22.5	22.8	22.6	22.8	22.6	22.7	22.2	21.9	22.0	21.8	22.0	22.2	22.5	22.7	22.7	22.5	22.7	22.7	21.8	22.9	22.5								
Feb 5	22.7	22.9	22.6	22.8	22.8	22.8	22.9	22.8	22.8	22.9	22.9	22.5	22.3	22.5	22.4	22.7	22.8	22.8	22.9	22.9	23.2	23.0	23.0	23.2	22.3	23.2	22.8								
Feb 6	23.2	23.2	23.4	23.4	23.4	23.6	23.2	23.0	22.8	23.1	23.3	22.6	22.3	22.1	22.0	22.3	22.1	22.6	23.0	23.1	23.4	23.3	23.5	23.4	22.0	23.6	23.0								
Feb 7	23.5	23.4	23.4	23.4	23.4	23.4	23.3	23.5	23.4	23.5	23.2	22.7	22.8	22.5	22.3	22.4	22.3	22.5	22.8	23.1	23.2	23.4	23.2	23.5	22.3	23.5	23.1								
Feb 8	23.3	23.2	23.2	23.5	23.2	23.3	23.2	23.2	23.5	23.5	23.1	22.7	22.5	22.4	22.4	22.5	22.5	22.7	22.9	23.3	23.2	23.3	23.4	23.4	22.4	23.5	23.1								
Feb 9	23.4	23.4	23.3	23.4	23.4	23.3	23.5	23.4	23.5	23.5	23.4	23.1	23.1	22.9	22.8	22.8	22.9	22.9	23.2	23.3	23.4	23.1	23.1	23.1	22.8	23.5	23.2								
Feb 10	23.2	23.1	23.0	23.1	23.1	23.2	23.2	23.2	23.2	23.0	23.2	23.0	22.9	22.7	22.9	22.7	23.0	22.9	22.8	23.0	23.2	23.3	23.4	23.3	22.7	23.4	23.1								
Feb 11	23.2	23.3	23.4	23.6	23.2	23.2	23.2	23.3	23.2	23.3	23.2	22.9	22.6	22.5	22.5	22.3	22.8	22.7	23.0	23.0	22.9	23.0	23.0	22.8	22.3	23.6	23.0								
Feb 12	23.0	22.7	23.0	22.7	23.0	22.7	22.9	22.7	22.8	22.8	22.6	22.7	22.1	22.0	22.0	21.9	22.2	22.1	22.4	22.7	23.0	22.8	22.9	23.0	21.9	23.0	22.6								
Feb 13	23.0	23.0	23.0	23.0	23.1	23.0	23.0	23.0	23.2	23.0	23.2	22.9	22.2	22.1	21.7	22.0	21.9	21.7	21.8	22.5	22.6	22.6	22.9	22.7	21.7	23.2	22.6								
Feb 14	22.7	23.0	23.0	23.1	23.0	23.0	23.1	23.0	23.0	23.1	22.7	22.7	22.1	21.9	21.8	22.1	22.1	22.5	22.6	22.6	22.9	22.8	23.1	22.8	21.8	23.1	22.7								
Feb 15	22.9	22.9	22.8	23.0	22.7	23.0	22.8	23.0	22.9	23.1	22.5	22.4	22.2	22.0	22.1	22.2	22.3	22.2	22.5	22.2	22.4	22.5	22.3	22.5	22.0	23.1	22.6								
Feb 16	22.4	22.3	22.5	22.4	22.3	22.6	22.4	22.4	22.6	22.5	22.3	22.0	22.3	21.9	21.9	22.0	22.0	22.5	22.5	22.6	22.8	22.6	22.8	21.9	22.8	22.4									
Feb 17	22.8	22.7	22.9	22.9	22.8	23.1	22.8	22.9	23.0	22.8	22.6	22.1	22.1	22.1	22.0	21.8	21.6	22.0	22.3	22.3	22.5	22.5	22.4	22.6	21.6	23.1	22.5								
Feb 18	22.6	22.4	22.6	22.5	22.4	22.6	22.6	22.4	22.6	22.4	22.4	22.1	22.0	22.2	21.9	21.9	22.2	22.3	22.2	22.2	22.1	22.2	22.4	22.4	21.9	22.6	22.3								
Feb 19	22.3	22.2	22.3	22.4	22.3	22.2	22.2	22.2	22.3	22.3	22.3	22.0	21.6	21.8	21.5	21.7	21.7	21.8	22.0	22.0	22.0	22.1	22.1	22.3	21.5	22.4	22.1								
Feb 20	22.2	22.1	22.1	22.1	22.0	22.1	22.1	22.1	22.1	22.0	22.0	21.7	21.9	21.9	21.6	21.8	21.6	21.9	22.0	22.1	22.0	22.1	22.1	22.2	21.6	22.2	22.0								
Feb 21	22.2	22.1	22.1	22.0	22.0	22.0	21.8	21.8	21.8	21.7	21.8	21.7	21.5	21.7	21.2	21.3	21.3	21.3	21.7	21.5	21.8	21.9	21.7	22.0	21.2	22.2	21.7								
Feb 22	21.6	22.1	21.9	21.8	22.1	21.8	22.0	22.0	21.9	21.9	21.8	21.7	21.5	21.5	21.6	21.7	21.9	21.9	21.9	22.0	22.0	22.2	22.2	22.2	21.5	22.2	21.9								
Feb 23	22.3	22.2	22.3	22.3	22.2	22.1	22.1	22.2	22.3	21.6	21.9	21.6	21.4	21.1	21.1	21.7	21.7	21.9	22.2	22.3	22.2	22.2	22.1	22.2	21.1	22.3	22.0								
Feb 24	22.2	22.2	22.2	22.2	22.2	22.1	22.1	22.5	22.3	22.5	22.1	22.0	21.4	21.6	21.3	21.5	21.7	21.8	22.1	22.3	22.3	22.3	22.3	22.3	21.3	22.5	22.1								
Feb 25	22.2	22.2	22.3	22.1	22.2	22.2	22.1	22.2	22.3	22.1	21.8	21.8	21.6	21.8	21.9	22.0	22.1	22.3	22.5	22.5	22.6	22.8	22.7	22.7	21.6	22.8	22.2								
Feb 26	22.8	22.8	22.7	23.0	22.7	22.8	22.9	22.7	22.8	22.8	22.5	22.6	22.2	22.3	22.1	22.3	22.0	22.5	22.6	22.5	22.6	22.8	22.7	22.6	22.0	23.0	22.6								
Feb 27	23.0	22.8	23.0	23.0	22.9	23.0	23.1	23.1	23.2	23.0	22.7	22.3	22.5	21.9	21.8	21.6	21.7	22.1	22.4	22.3	22.5	22.4	22.5	22.5	21.6	23.2	22.6								
Feb 28	22.3	22.5	22.3	22.5	22.3	22.5	22.5	22.4	22.6	22.7	22.5	22.5	22.5	22.5	22.3	22.5	22.4	22.5	22.4	22.5	22.3	22.3	22.4	22.3	22.3	22.7	22.4								
Diurnal Maximum	23.5	23.4	23.4	23.6	23.4	23.6	23.5	23.5	23.5	23.5	23.4	23.1	23.1	22.9	22.9	22.8	23.0	22.9	23.2	23.3	23.4	23.4	23.5	23.5											
Diurnal Average	22.7	22.7	22.8	22.8	22.7	22.8	22.7	22.7	22.7	22.6	22.4	22.2	22.1	22.0	22.1	22.1	22.3	22.5	22.6	22.7	22.7	22.7	22.7	22.7											
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																		
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance																		
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)								P Power Failure																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																			
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																			

Timeseries Chart of Hourly Average for ST - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

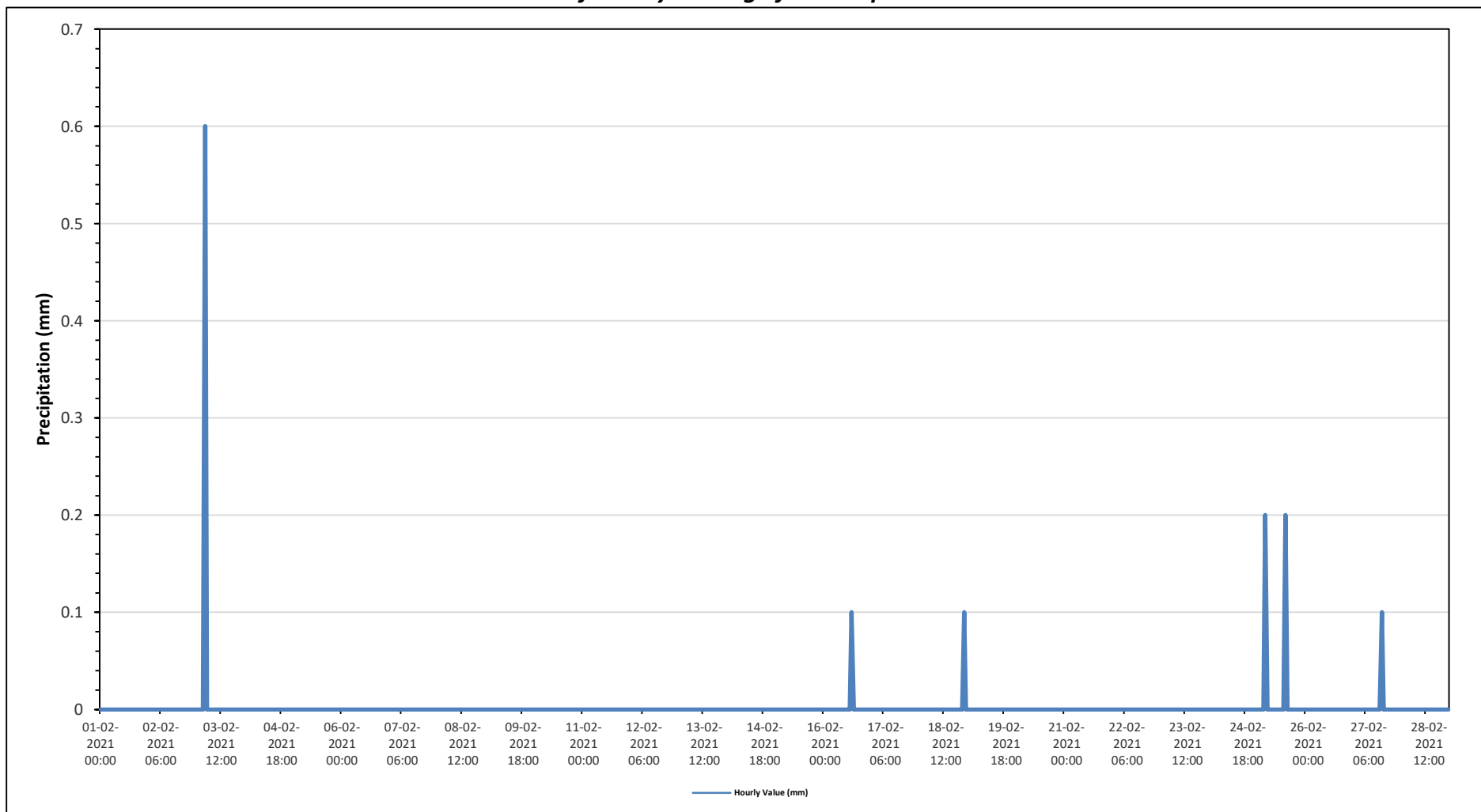
842b Station - February 2021

Summary of Hourly Averages

PRECIPITATION in mm

Maximum Hourly Value:					0.6	mm	on February 3 at hour 4										Hours in Service:					672							
Maximum Daily Value:					0.6	mm	on February 3										Hours of Data:					672							
Minimum Hourly Value:					0.0	mm	on February 1 at hour 0										Hours of Missing Data:					0							
Minimum Daily Value:					0.0	mm	on February 1										Hours of Calibration:					0							
Monthly Total:					1.3	mm											Operational Uptime:					100.0							
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Total		
Feb 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 3	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.6	0.6	
Feb 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1	
Feb 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.0	0.1	0.1	
Feb 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 25	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	0.4
Feb 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Feb 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1	
Feb 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	
Diurnal Maximum	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0				
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance												
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure				
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																				
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																													

Timeseries Chart of Hourly Average for Precipitation - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

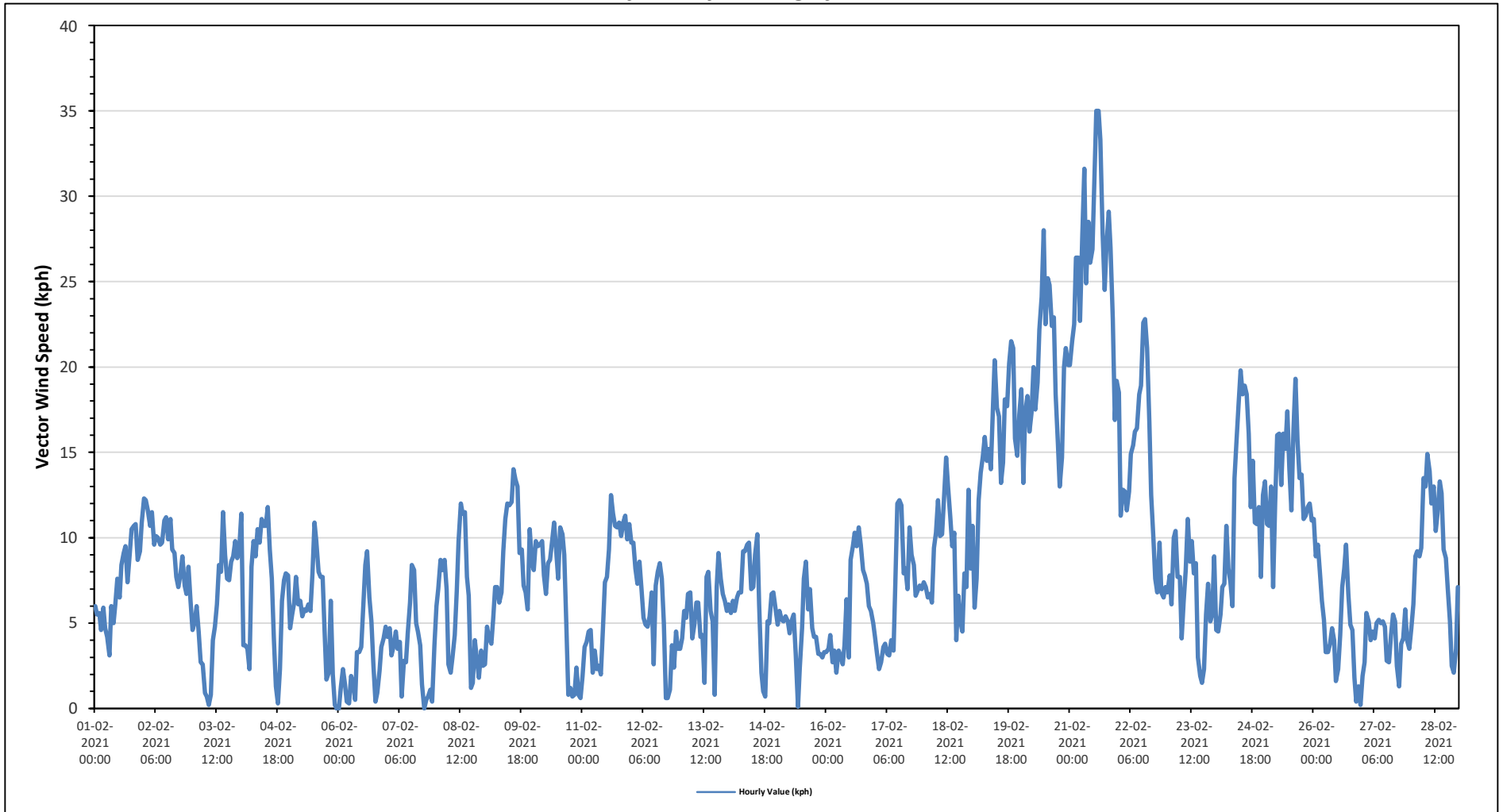
842b Station - February 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

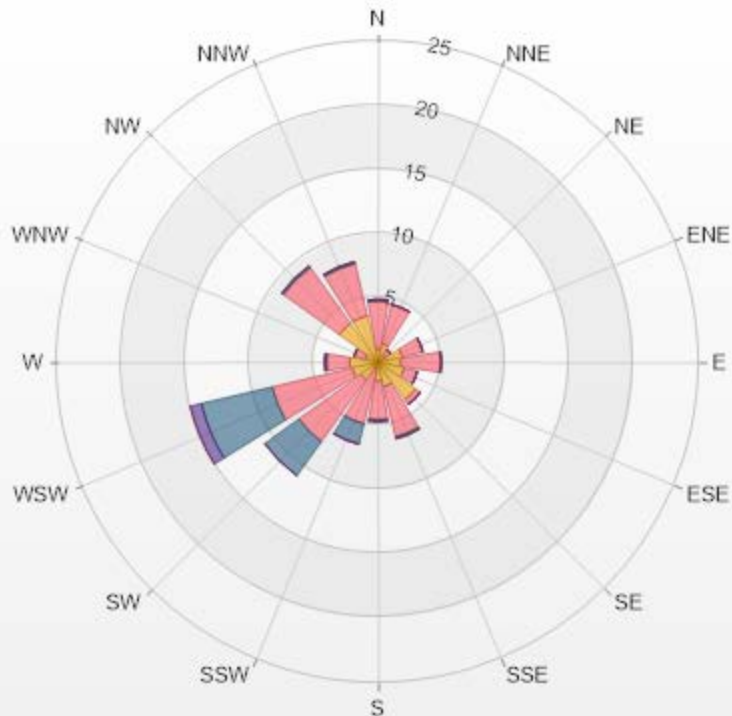
Maximum Hourly Value:										35.0 kph on February 21 at hour 13										Hours in Service:										672			
Maximum Daily Value:										26.0 kph on February 21										Hours of Data:										672			
Minimum Hourly Value:										0.0 kph on February 5 at hour 23										Hours of Missing Data:										0			
Minimum Daily Value:										1.1 kph on February 6										Hours of Calibration:										0			
Monthly Average:										3.5 kph										Operational Uptime:										100.0			
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average						
Feb 1	6.0	5.5	5.6	4.6	5.9	4.7	4.2	3.1	6.0	5.0	6.1	7.6	6.5	8.4	9.1	9.5	7.4	9.1	10.5	10.7	10.8	8.7	9.2	10.9	3.1	10.9	6.7						
Feb 2	12.3	12.2	11.6	10.7	11.5	9.6	10.1	10.0	9.6	9.7	11.0	11.2	9.9	11.1	9.3	9.1	7.7	7.1	7.9	8.9	7.2	6.7	8.3	6.3	6.3	12.3	9.2						
Feb 3	4.6	5.1	6.0	4.5	2.7	2.6	0.9	0.7	0.2	0.8	4.0	4.8	6.1	8.4	8.0	11.5	9.0	7.6	7.5	8.6	8.9	9.8	8.8	9.4	0.2	11.5	3.4						
Feb 4	11.4	3.7	3.7	3.5	2.3	8.3	9.8	8.9	10.5	9.7	11.1	10.7	10.7	11.8	9.3	7.6	4.1	1.3	0.3	2.3	6.3	7.5	7.9	7.8	0.3	11.8	5.0						
Feb 5	4.7	5.5	6.2	7.7	6.1	6.3	5.4	5.8	5.7	6.1	5.7	7.9	10.9	9.8	8.0	7.7	7.7	4.4	1.7	2.1	6.3	2.0	0.2	0.0	0.0	10.9	4.7						
Feb 6	0.0	1.3	2.3	1.4	0.4	0.3	1.9	1.5	0.5	3.3	3.3	3.6	6.0	8.4	9.2	6.5	5.1	2.5	0.4	0.9	2.2	3.6	4.1	4.8	0.0	9.2	1.1						
Feb 7	4.2	4.7	3.1	3.7	4.5	3.5	3.9	0.7	2.8	2.7	4.4	6.2	8.4	8.1	5.0	4.5	3.7	1.4	0.0	0.5	0.7	1.1	0.4	3.7	0.0	8.4	1.7						
Feb 8	6.0	7.0	8.7	8.1	8.7	7.0	2.6	2.1	3.0	4.3	6.9	9.8	12.0	11.4	11.5	7.7	6.6	1.2	1.5	4.0	2.9	1.8	3.4	2.5	1.2	12.0	4.5						
Feb 9	2.6	4.8	4.1	3.8	5.2	7.1	7.1	6.2	6.8	9.2	11.1	12.0	11.9	12.1	14.0	13.4	13.0	9.1	9.3	7.2	6.8	5.8	10.5	8.5	2.6	14.0	7.6						
Feb 10	8.1	9.8	9.5	9.6	9.8	7.8	6.7	8.5	8.7	9.9	10.9	9.3	7.6	10.6	10.2	9.0	5.0	0.8	1.2	0.7	0.8	2.4	0.8	0.6	0.6	10.9	5.1						
Feb 11	1.9	3.6	3.9	4.5	4.6	2.1	3.4	2.3	2.5	2.0	4.6	7.4	7.7	9.3	12.5	11.4	10.7	10.6	10.9	10.1	10.9	11.3	9.9	10.8	1.9	12.5	6.0						
Feb 12	9.7	9.7	8.2	7.3	8.6	7.0	5.3	4.9	4.8	5.4	6.8	2.6	7.2	8.0	8.5	7.6	5.0	0.6	0.6	1.1	3.7	2.4	4.5	3.5	0.6	9.7	4.0						
Feb 13	3.5	4.1	5.7	5.3	6.7	6.8	4.1	4.9	6.2	6.2	4.2	4.3	1.5	7.7	8.0	5.7	5.1	0.8	7.1	9.1	7.6	6.7	6.3	5.7	0.8	9.1	3.2						
Feb 14	6.1	5.6	6.3	5.7	6.5	6.8	6.8	9.2	9.2	9.6	9.7	7.0	7.1	9.0	10.2	6.1	2.1	1.0	0.7	5.1	5.0	6.7	6.8	5.9	0.7	10.2	4.0						
Feb 15	4.9	5.7	5.2	5.1	5.4	5.1	4.4	5.2	5.5	3.2	0.1	2.4	4.7	7.6	8.6	5.8	7.0	4.7	4.2	4.2	3.2	3.2	3.0	3.3	0.1	8.6	1.2						
Feb 16	3.3	3.5	4.3	2.7	3.4	2.1	3.4	3.1	2.6	3.7	6.4	3.0	8.7	9.5	10.3	9.5	10.6	9.6	8.1	7.8	7.3	6.0	5.7	5.0	2.1	10.6	3.0						
Feb 17	4.2	3.2	2.3	2.7	3.6	3.8	3.2	3.1	4.0	3.4	7.3	12.0	12.2	11.9	7.9	8.2	7.0	10.6	9.0	8.4	6.6	6.9	7.2	7.0	2.3	12.2	5.4						
Feb 18	7.4	7.1	6.5	6.7	6.2	9.4	10.3	12.2	10.1	10.2	12.4	14.7	12.9	11.3	9.5	10.3	4.0	6.6	5.1	4.5	7.9	7.1	12.8	8.2	4.0	14.7	8.2						
Feb 19	10.7	5.9	7.6	12.2	13.8	14.7	15.9	14.5	15.2	14.0	17.5	20.4	17.6	17.1	13.2	14.4	18.1	17.7	20.2	21.5	21.1	15.8	14.8	17.2	5.9	21.5	15.0						
Feb 20	18.7	13.2	17.3	18.3	16.2	17.3	20.0	17.5	19.1	22.2	24.1	28.0	22.5	25.2	24.8	22.4	22.9	18.4	15.5	13.0	14.7	20.0	21.1	20.1	13.0	28.0	18.8						
Feb 21	20.1	21.5	22.5	26.4	26.4	22.7	27.7	31.6	24.9	28.5	26.1	26.9	31.2	35.0	35.0	33.3	27.8	24.5	27.1	29.1	27.0	22.8	16.9	19.2	16.9	35.0	26.0						
Feb 22	18.5	11.3	12.8	12.7	11.6	12.7	14.9	15.4	16.2	16.4	18.4	18.9	22.6	22.8	21.1	16.7	12.5	9.9	7.6	6.8	9.7	6.8	6.5	7.1	6.5	22.8	13.6						
Feb 23	6.8	7.8	6.1	10.0	10.4	7.7	7.7	4.1	6.3	8.1	11.1	8.6	9.8	7.9	8.5	3.0	1.9	1.5	2.3	5.5	7.3	5.1	5.5	8.9	1.5	11.1	4.2						
Feb 24	4.6	4.5	5.5	7.1	7.3	10.7	8.2	7.4	6.0	13.5	15.7	17.8	19.8	18.4	18.9	18.4	16.1	11.8	14.5	10.9	10.8	11.8	7.7	12.5	4.5	19.8	10.9						
Feb 25	13.3	10.8	10.7	13.0	7.1	12.0	16.0	16.1	13.1	16.1	15.2	17.4	14.0	11.6	16.3	19.3	15.7	13.5	13.7	11.1	11.3	11.8	12.0	11.0	7.1	19.3	3.8						
Feb 26	11.1	8.9	9.6	8.0	6.3	5.2	3.3	3.3	3.8	4.7	4.0	1.6	2.3	4.3	7.1	8.2	9.6	6.7	4.9	4.6	1.8	0.4	1.3	0.2	0.2	11.1	3.1						
Feb 27	1.9	2.7	5.6	5.1	4.0	4.5	4.1	5.0	5.2	5.0	5.1	4.8	2.8	2.7	4.3	5.5	5.1	2.5	1.3	3.8	4.1	5.8	4.0	3.5	1.3	5.8	2.7						
Feb 28	4.7	6.1	8.9	9.2	8.9	9.4	13.5	13.0	14.9	13.9	12.0	13.0	10.4	11.4	13.3	12.6	9.3	8.8	7.1	5.1	2.5	2.1	3.5	7.1	2.1	14.9	8.5						
Diurnal Maximum	20	22	23	26	26	23	28	32	25	29	26	28	31	35	35	33	28	25	27	29	27	23	21	20									
Diurnal Average	7.5	7.0	7.5	7.8	7.6	7.8	8.0	7.9	8.0	8.8	9.8	10.5	10.9	11.8	11.8	10.9	9.3	7.3	7.2	7.4	7.7	7.2	7.3	7.5									
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance																
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																								
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																	
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																	

Timeseries Chart of Hourly Average for VWS - 842b Station



Wind: PRAMP 842b Monitor: WDS [KPH] Monthly: 02-2021 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 7.14% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.04	3.72	0.15	0	0	4.91
NNE	1.49	3.13	0	0	0	4.62
NE	0.6	0.6	0	0	0	1.2
ENE	1.93	1.64	0	0	0	3.57
E	1.79	3.13	0	0	0	4.92
ESE	2.08	1.04	0	0	0	3.12
SE	3.57	0.45	0	0	0	4.02
SSE	1.93	4.02	0.15	0	0	6.1
S	1.49	2.98	0.15	0	0	4.62
SSW	0.45	4.46	1.64	0	0	6.55
SW	1.64	5.95	3.27	0	0	10.86
WSW	2.08	6.4	5.65	0.89	0	15.02
W	2.23	1.79	0.15	0	0	4.17
WNW	1.04	0.89	0	0	0	1.93
NW	3.72	5.36	0.15	0	0	9.23
NNW	3.72	4.17	0.15	0	0	8.04
Summary	30.8	49.73	11.46	0.89	0	92.88



PRAMP-202102

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% Icon Classes (KPH)

31 1.8-6.0

50 6.0-15.0

11 15.0-29.0

1 29.0-39.0

0 >39.0



PEACE RIVER AREA MONITORING PROGRAM

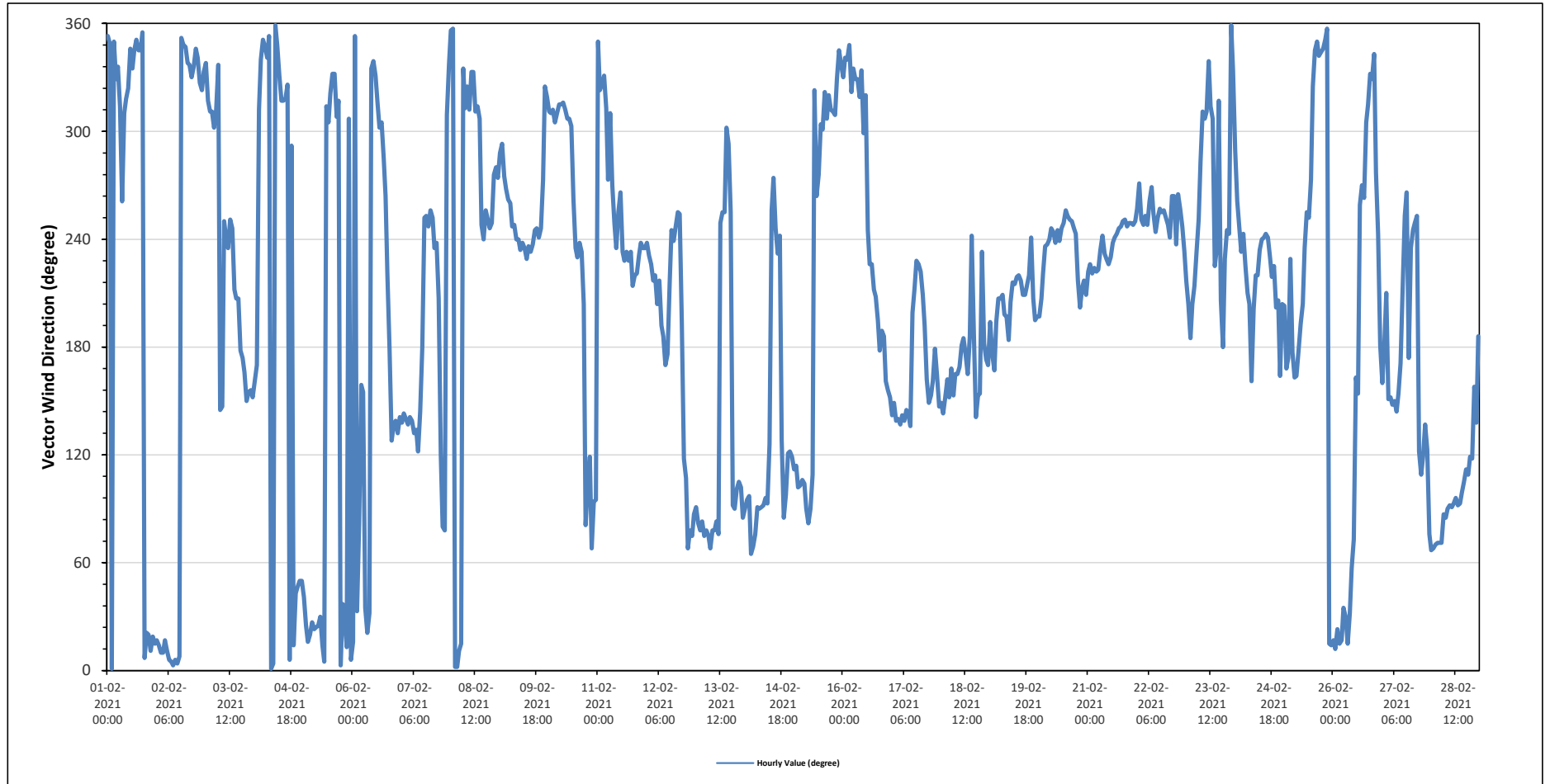
842b Station - February 2021

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:										241 (WSW) degree										Hours in Service:										672									
																				Hours of Data:										672									
																				Hours of Missing Data:										0									
																				Hours of Calibration:										0									
																				Operational Uptime:										100.0									
Day	Hourly Period Starting at (MST)																							Daily Average															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant													
Feb 1	N	NNW	N	N	NNW	NNW	NW	W	NW	NW	NW	NNW	NNW	NNW	N	NNW	NNW	N	N	NNE	NNE	NNE	NNE	NNE	352	N													
Feb 2	NNE	NNE	N	N	NNE	NNE	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	356	N													
Feb 3	NNW	NW	NW	NW	WNW	NW	NNW	SE	SE	WSW	WSW	SW	WSW	WSW	SSW	SSW	SSW	S	S	SSE	SSE	SSE	SSE	SSE	204	SSW													
Feb 4	SSE	SSE	NW	NNW	N	NNW	NNW	N	N	N	N	NNW	NNW	NW	NW	NW	NW	N	WNW	NNE	NE	NE	NE	NE	354	N													
Feb 5	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NW	WNW	NW	NNW	NNW	NW	NW	N	NE	NNE	NNE	NW	N	356	N													
Feb 6	NNE	N	NNE	E	SSE	SSE	NE	NNE	NNE	NNW	NNW	NNW	NW	WNW	WNW	WNW	W	SW	S	SE	SE	SE	SE	SE	309	NW													
Feb 7	SE	SE	SE	SE	SE	SE	SE	SE	ESE	SE	S	WSW	WSW	WSW	WSW	WSW	SW	SSW	ESE	E	ENE	NW	NNW	197	SSW														
Feb 8	N	N	N	N	NNE	NNE	NNW	NW	NW	NW	NNW	NNW	NW	NW	NW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	321	NW													
Feb 9	WNW	WNW	W	W	W	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	W	NW	NW	250	WSW													
Feb 10	NW	NW	NW	WNW	NW	NW	NW	NW	NW	NW	NW	WNW	W	SW	SW	SW	SW	SSW	E	ESE	ESE	ENE	E	E	293	WNW													
Feb 11	N	NW	NW	NNW	NW	W	NW	W	WSW	SW	WSW	W	SW	SW	SW	SW	SW	SSW	SW	SW	SW	SW	SW	SW	242	WSW													
Feb 12	SW	SW	SW	SW	SW	SSW	SW	S	S	SSE	S	SSW	WSW	WSW	WSW	WSW	WSW	SSW	ESE	ESE	ENE	ENE	ENE	E	217	SW													
Feb 13	E	E	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	WSW	WSW	WSW	WNW	WNW	WSW	E	E	E	ESE	E	E	84	E													
Feb 14	E	E	E	ENE	ENE	ENE	E	E	E	E	E	E	SE	WSW	W	WSW	SW	WSW	SE	E	E	ESE	ESE	ESE	101	E													
Feb 15	ESE	ESE	E	ESE	ESE	ESE	E	E	E	ESE	NW	W	W	WNW	WNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	5	N													
Feb 16	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NW	NNW	WNW	NW	WSW	SW	SW	SSW	SSW	SSW	S	S	S	SSE	SSE	SSE	227	SW													
Feb 17	SE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SSW	SSW	SW	SW	SW	SSW	S	SSE	SSE	SSE	S	SSE	SE	SE	179	S													
Feb 18	SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	SSE	S	WSW	S	SE	SSE	SSE	SW	S	S	SSE	172	S													
Feb 19	SSW	S	SSE	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SW	SSW	SW	SW	SW	SSW	SSW	SSW	SW	WSW	SSW	SSW	SSW	208	SSW													
Feb 20	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SW	SSW	236	SW													
Feb 21	SW	SW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	238	SW													
Feb 22	WSW	W	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	SW	W	WSW	WSW	SW	254	WSW													
Feb 23	SW	SSW	S	SSW	SSW	SW	WSW	W	NW	NW	NW	NNW	NW	NW	SW	NW	SSW	S	SW	WSW	WSW	N	NNW	NNW	263	W													
Feb 24	WNW	W	WSW	SW	WSW	SW	SSW	SSW	SSE	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSE	SSW	SSW	224	SW													
Feb 25	SSW	SSE	S	SW	S	SSE	SSE	S	S	SSW	SW	WSW	WSW	W	NW	NNW	N	NNW	NNW	NNW	N	N	NNE	NNE	266	W													
Feb 26	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	ENE	ENE	SSE	SSE	WSW	W	W	WNW	NW	NNW	NNW	NNW	W	WSW	S	353	N													
Feb 27	SSE	S	SSW	SSE	SSE	SE	SSE	SE	SSE	S	SSW	WSW	W	S	SW	WSW	WSW	WSW	ESE	ESE	ESE	SE	ESE	ENE	175	S													
Feb 28	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE	SSE	SE	S	93	E													
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance						Y	Routine Maintenance						P	Power Failure										
K	Collection Error						N	No Data (Machine Not in Service)																															
X	Invalid Data (Machine Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																															
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																							
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																							

Timeseries Chart of Hourly Average for VWD - 842b Station





PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																													
Maximum Hourly Value:		35.0 kph on February 21 at hour 13													Hours in Service:		672												
Maximum Daily Value:		26.0 kph on February 21													Hours of Data:		672												
Minimum Hourly Value:		0.0 kph on February 5 at hour 23													Hours of Missing Data:		0												
Minimum Daily Value:		1.1 kph on February 6													Hours of Calibration:		0												
Monthly Average:		3.5 kph													Operational Uptime:		100												
WIND DIRECTION																													
Monthly Average:		241 (WSW) degree																											
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23					
Feb 1	6.0	5.5	5.6	4.6	5.9	4.7	4.2	3.1	6.0	5.0	6.1	7.6	6.5	8.4	9.1	9.5	7.4	9.1	10.5	10.7	10.8	8.7	9.2	10.9					
	N	NNW	N	N	NNW	NNW	NW	W	NW	NW	NW	NNW	NNW	NNW	N	NNW	NNW	N	N	NNE	NNE	NNE	NNE	NNE					
Feb 2	12.3	12.2	11.6	10.7	11.5	9.6	10.1	10.0	9.6	9.7	11.0	11.2	9.9	11.1	9.3	9.1	7.7	7.1	7.9	8.9	7.2	6.7	8.3	6.3	6.3	12.3	9.2		
	NNE	NNE	N	N	NNE	NNE	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW					
Feb 3	4.6	5.1	6.0	4.5	2.7	2.6	0.9	0.7	0.2	0.8	4.0	4.8	6.1	8.4	8.0	11.5	9.0	7.6	7.5	8.6	8.9	9.8	8.8	9.4	0.2	11.5	3.4		
	NNW	NW	NW	NW	WNW	NW	NNW	SE	SE	WSW	WSW	SW	WSW	WSW	SSW	SSW	SSW	S	S	SSE	SSE	SSE	SSE	SSE					
Feb 4	11.4	3.7	3.7	3.5	2.3	8.3	9.8	8.9	10.5	9.7	11.1	10.7	10.7	11.8	9.3	7.6	4.1	1.3	0.3	2.3	6.3	7.5	7.9	7.8	0.3	11.8	5.0		
	SSE	SSE	NW	NNW	N	NNW	NNW	N	N	N	N	NNW	NNW	NW	NW	NW	NW	N	WNW	NNE	NE	NE	NE	NE					
Feb 5	4.7	5.5	6.2	7.7	6.1	6.3	5.4	5.8	5.7	6.1	5.7	7.9	10.9	9.8	8.0	7.7	7.7	4.4	1.7	2.1	6.3	2.0	0.2	0.0	0.0	10.9	4.7		
	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NW	WNW	NW	NNW	NNW	NW	NW	N	NE	NNE	NNE	NW	N					
Feb 6	0.0	1.3	2.3	1.4	0.4	0.3	1.9	1.5	0.5	3.3	3.3	3.6	6.0	8.4	9.2	6.5	5.1	2.5	0.4	0.9	2.2	3.6	4.1	4.8	0.0	9.2	1.1		
	NNE	N	NNE	E	SSE	SSE	NE	NNE	NNE	NNW	NNW	NNW	NW	WNW	WNW	WNW	W	SW	S	SE	SE	SE	SE	SE					
Feb 7	4.2	4.7	3.1	3.7	4.5	3.5	3.9	0.7	2.8	2.7	4.4	6.2	8.4	8.1	5.0	4.5	3.7	1.4	0.0	0.5	0.7	1.1	0.4	3.7	0.0	8.4	1.7		
	SE	SE	SE	SE	SE	SE	SE	ESE	SE	S	WSW	WSW	WSW	WSW	WSW	SW	SW	SSW	ESE	E	ENE	NW	NNW						
Feb 8	6.0	7.0	8.7	8.1	8.7	7.0	2.6	2.1	3.0	4.3	6.9	9.8	12.0	11.4	11.5	7.7	6.6	1.2	1.5	4.0	2.9	1.8	3.4	2.5	1.2	12.0	4.5		
	N	N	N	N	NNE	NNE	NNW	NW	NW	NW	NNW	NNW	NW	NW	NW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W					
Feb 9	2.6	4.8	4.1	3.8	5.2	7.1	7.1	6.2	6.8	9.2	11.1	12.0	11.9	12.1	14.0	13.4	13.0	9.1	9.3	7.2	6.8	5.8	10.5	8.5	2.6	14.0	7.6		
	WNW	WNW	W	W	W	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	W	NW	NW					
Feb 10	8.1	9.8	9.5	9.6	9.8	7.8	6.7	8.5	8.7	9.9	10.9	9.3	7.6	10.6	10.2	9.0	5.0	0.8	1.2	0.7	0.8	2.4	0.8	0.6	0.6	10.9	5.1		
	NW	NW	NW	WNW	NW	NW	NW	NW	NW	NW	NW	WNW	W	SW	SW	SW	SW	SSW	E	ESE	ESE	ENE	E	E					
Feb 11	1.9	3.6	3.9	4.5	4.6	2.1	3.4	2.3	2.5	2.0	4.6	7.4	7.7	9.3	12.5	11.4	10.7	10.6	10.9	10.1	10.9	11.3	9.9	10.8	1.9	12.5	6.0		
	N	NW	NW	NNW	NW	W	NW	W	WSW	SW	WSW	W	SW	SW	SW	SW	SSW	SW	SSW	SW	SW	SW	SW	SW					
Feb 12	9.7	9.7	8.2	7.3	8.6	7.0	5.3	4.9	4.8	5.4	6.8	2.6	7.2	8.0	8.5	7.6	5.0	0.6	0.6	1.1	3.7	2.4	4.5	3.5	0.6	9.7	4.0		
	SW	SW	SW	SW	SW	SSW	SW	S	S	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	ESE	ESE	ENE	ENE	ENE	E					
Feb 13	3.5	4.1	5.7	5.3	6.7	6.8	4.1	4.9	6.2	6.2	4.2	4.3	1.5	7.7	8.0	5.7	5.1	0.8	7.1	9.1	7.6	6.7	6.3	5.7	0.8	9.1	3.2		
	E	E	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	WSW	WSW	WSW	WNW	WNW	WSW	E	E	E	ESE	E	E					
Feb 14	6.1	5.6	6.3	5.7	6.5	6.8	6.8	9.2	9.2	9.6	9.7	7.0	7.1	9.0	10.2	6.1	2.1	1.0	0.7	5.1	5.0	6.7	6.8	5.9	0.7	10.2	4.0		
	E	E	E	ENE	ENE	ENE	E	E	E	E	E	E	SE	WSW	W	WSW	SW	WSW	SE	E	ESE	ESE	ESE	ESE					
Feb 15	4.9	5.7	5.2	5.1	5.4	5.1	4.4	5.2	5.5	3.2	0.1	2.4	4.7	7.6	8.6	5.8	7.0	4.7	4.2	4.2	3.2	3.2	3.0	3.3	0.1	8.6	1.2		
	ESE	ESE	E	ESE	ESE	ESE	E	E	E	ESE	NW	W	W	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW					
Feb 16	3.3	3.5	4.3	2.7	3.4	2.1	3.4	3.1	2.6	3.7	6.4	3.0	8.7	9.5	10.3	9.5	10.6	9.6	8.1	7.8	7.3	6.0	5.7	5.0	2.1	10.6	3.0		
	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NW	NNW	NNW	NNW	WSW	SW	SSW	SSW	SSW	S	S	S	SSE	SSE	SSE	SSE					
Feb 17	4.2	3.2	2.3	2.7	3.6	3.8	3.2	3.1	4.0	3.4	7.3	12.0	12.2	11.9	7.9	8.2	7.0	10.6	9.0	8.4	6.6	6.9	7.2	7.0	2.3	12.2	5.4		
	SE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SSW	SSW	SSW	SW	SW	SSW	S	SSE	SSE	SSE	SSE	S	SSE	SE					
Feb 18	7.4	7.1	6.5	6.7	6.2	9.4	10.3	12.2	10.1	10.2	12.4	14.7	12.9	11.3	9.5	10.3	4.0	6.6	5.1	4.5	7.9	7.1	12.8	8.2	4.0	14.7	8.2		
	SSE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	SSE	S	WSW	S	SE	SSE	SSE	SW	S	S	SSE					
Feb 19	10.7	5.9	7.6	12.2	13.8	14.7	15.9	14.5	15.2	14.0	17.5	20.4	17.6	17.1	13.2	14.4	18.1	17.7	20.2	21.5	21.1	15.8	14.8	17.2	5.9	21.5	15.0		
	SSW	S	SSE	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SW	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW					
Feb 20	18.7	13.2	17.3	18.3	16.2	17.3	20.0	17.5	19.1	22.2	24.1	28.0	22.5	25.2	24.8	22.4	22.9	18.4	15.5	13.0	14.7	20.0	21.1	20.1	13.0	28.0	18.8		
	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SW	SSW				



PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																													
Maximum Hourly Value:		35.0 kph on February 21 at hour 13													Hours in Service:		672												
Maximum Daily Value:		26.0 kph on February 21													Hours of Data:		672												
Minimum Hourly Value:		0.0 kph on February 5 at hour 23													Hours of Missing Data:		0												
Minimum Daily Value:		1.1 kph on February 6													Hours of Calibration:		0												
Monthly Average:		3.5 kph													Operational Uptime:		100												
WIND DIRECTION																													
Monthly Average:		241 (WSW) degree																											
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average		
Feb 21	20.1	21.5	22.5	26.4	26.4	22.7	27.7	31.6	24.9	28.5	26.1	26.9	31.2	35.0	35.0	33.3	27.8	24.5	27.1	29.1	27.0	22.8	16.9	19.2	16.9	35.0	26.0		
Feb 22	SW	SW	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW		
	18.5	11.3	12.8	12.7	11.6	12.7	14.9	15.4	16.2	16.4	18.4	18.9	22.6	22.8	21.1	16.7	12.5	9.9	7.6	6.8	9.7	6.8	6.5	7.1	6.5	22.8	13.6		
Feb 23	WSW	W	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	SW	W	WSW	WSW	SW	SW	WSW	WSW		
	6.8	7.8	6.1	10.0	10.4	7.7	7.7	4.1	6.3	8.1	11.1	8.6	9.8	7.9	8.5	3.0	1.9	1.5	2.3	5.5	7.3	5.1	5.5	8.9	1.5	11.1	4.2		
Feb 24	SW	SSW	S	SSW	SSW	SW	WSW	W	NW	NW	NW	NNW	NW	NW	SW	NW	SSW	S	SW	WSW	WSW	WSW	N	NNW	NNW	NNW	NNW		
	4.6	4.5	5.5	7.1	7.3	10.7	8.2	7.4	6.0	13.5	15.7	17.8	19.8	18.4	18.9	18.4	16.1	11.8	14.5	10.9	10.8	11.8	7.7	12.5	4.5	19.8	10.9		
Feb 25	NNW	W	WSW	SW	WSW	SW	SSW	SSW	SSE	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	SW	SW	SW	SSW	SSW	SSE	SSW	SSW	SSW	SSW		
	13.3	10.8	10.7	13.0	7.1	12.0	16.0	16.1	13.1	16.1	15.2	17.4	14.0	11.6	16.3	19.3	15.7	13.5	13.7	11.1	11.3	11.8	12.0	11.0	7.1	19.3	3.8		
Feb 26	SSW	SSE	S	SW	S	SSE	SSE	S	S	SSW	SW	WSW	WSW	W	NW	NNW	N	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NNE	NNE		
	11.1	8.9	9.6	8.0	6.3	5.2	3.3	3.3	3.8	4.7	4.0	1.6	2.3	4.3	7.1	8.2	9.6	6.7	4.9	4.6	1.8	0.4	1.3	0.2	0.2	11.1	3.1		
Feb 27	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	ENE	ENE	SSE	SSE	WSW	W	W	WNW	NW	NNW	NNW	NNW	W	WSW	S	WSW	WSW	WSW		
	1.9	2.7	5.6	5.1	4.0	4.5	4.1	5.0	5.2	5.0	5.1	4.8	2.8	2.7	4.3	5.5	5.1	2.5	1.3	3.8	4.1	5.8	4.0	3.5	1.3	5.8	2.7		
Feb 28	SSE	S	SSW	SSE	SSE	SE	SSE	SE	SSE	S	SSW	WSW	W	S	SW	WSW	WSW	WSW	ESE	ESE	ESE	SE	ESE	ENE	ENE	ENE	ENE		
	4.7	6.1	8.9	9.2	8.9	9.4	13.5	13.0	14.9	13.9	12.0	13.0	10.4	11.4	13.3	12.6	9.3	8.8	7.1	5.1	2.5	2.1	3.5	7.1	2.1	14.9	8.5		
ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE	SSE	SE	S	S	S	S		
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance												
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure				
X	Invalid Data (Equipment Malfunction/Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																				
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																													

RENO STATION



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2021

Summary of Hourly Averages

SULPHUR DIOXIDE (SO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

Number of 1-Hour Exceedances: 0 Number of 24-Hour Exceedances: 0 30-Day Exceedance: 0

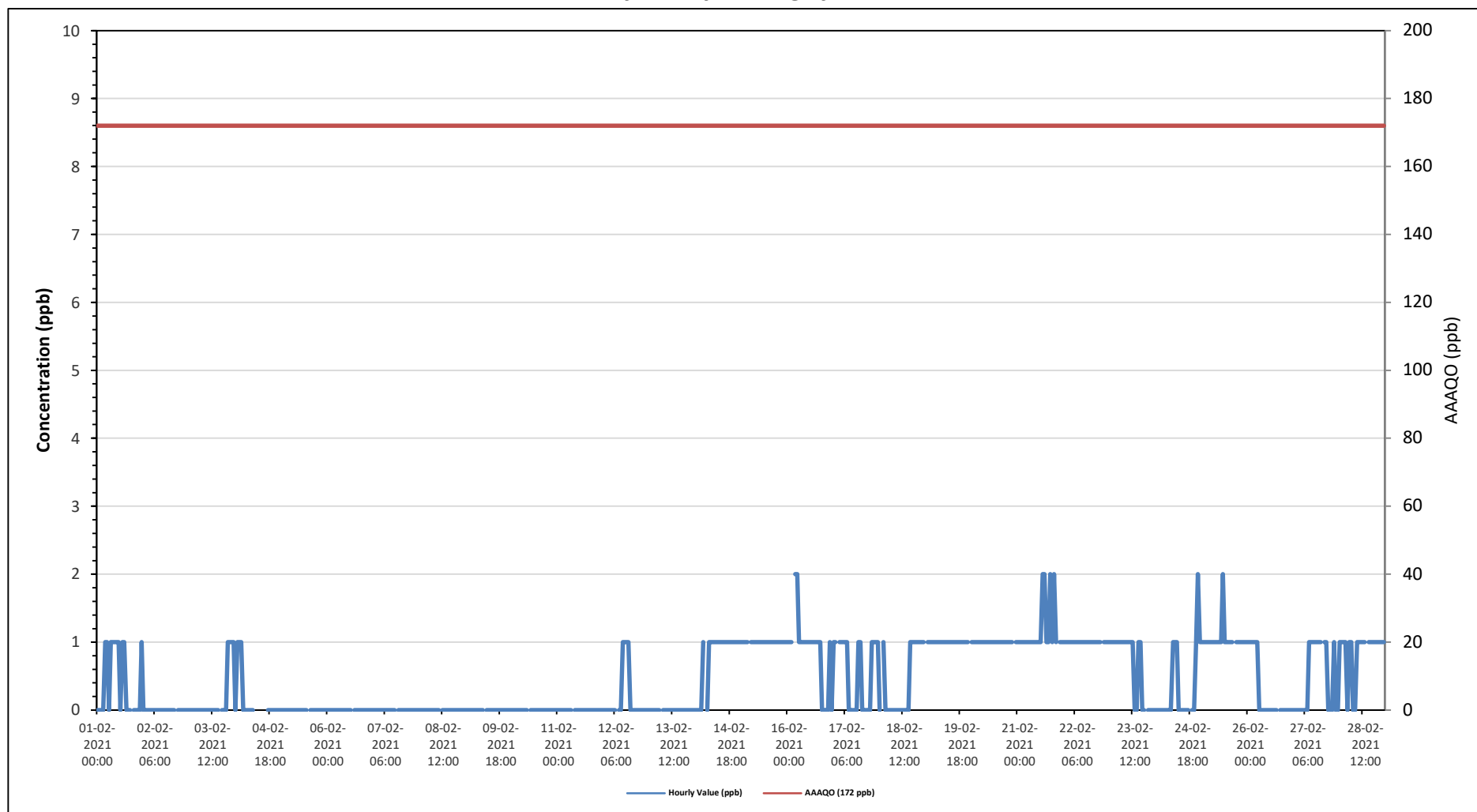
Maximum Hourly Value: 2 ppb on February 16 at hour 4 Hours in Service: 672
 Maximum Daily Value: 1.2 ppb on February 21 Hours of Data: 637
 Minimum Hourly Value: 0 ppb on February 1 at hour 0 Hours of Missing Data: 0
 Minimum Daily Value: 0.0 ppb on February 2 Hours of Calibration: 35
 Monthly Average: 0.4 ppb Operational Uptime: 100.0

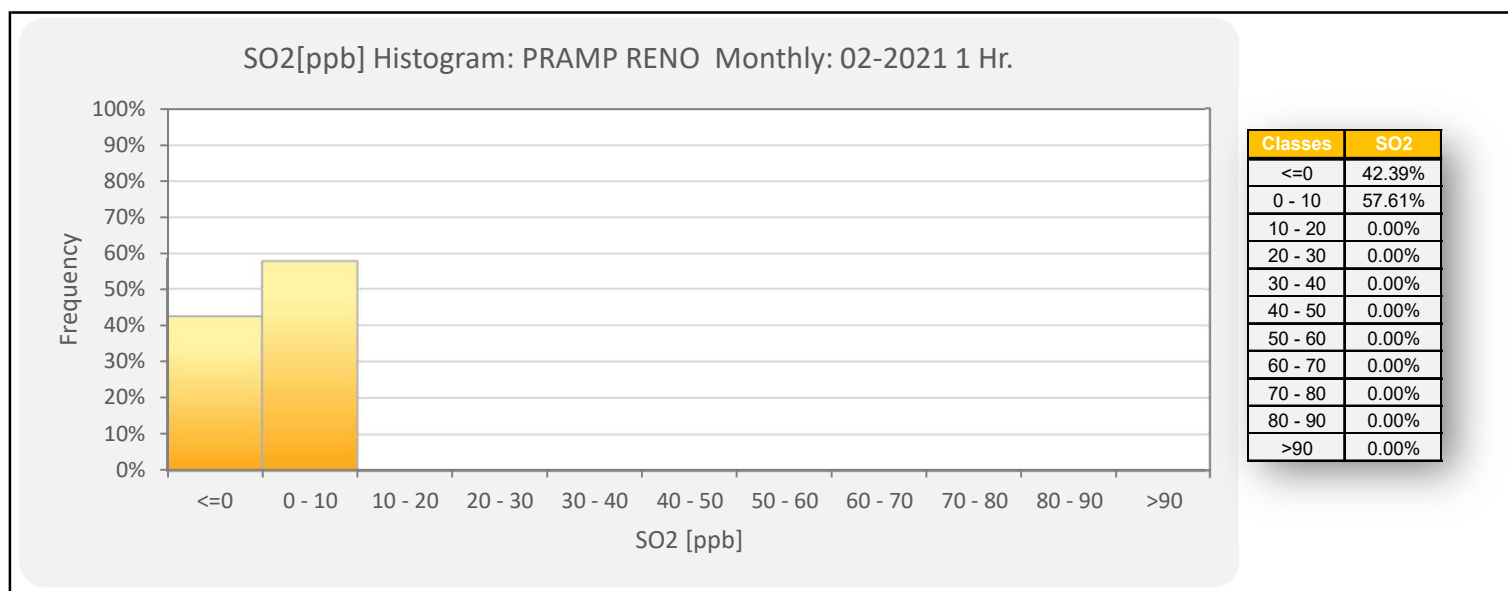
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0	0	0	0	1	1	0	1	1	1	1	1	0	1	1	0	0	0	S	0	0	0	0	1	0	1	0.4
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0.0
Feb 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	1	1	1	1	0	0.2	
Feb 4	0	1	1	1	0	0	0	0	0	0	C	C	C	C	C	C	C	0	0	0	0	0	0	0	0	1	-
Feb 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 6	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 7	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 8	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 9	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 10	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 11	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 12	0	0	0	0	0	0	0	S	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2
Feb 13	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 14	0	0	0	0	1	S	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.8
Feb 15	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0
Feb 16	1	1	1	S	2	2	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0	0	0.9	
Feb 17	1	1	S	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	1	0	1	0.6
Feb 18	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	1	0.4
Feb 19	S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	S	1	1	1.0
Feb 20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	S	1	1	1	1.0
Feb 21	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2	1	2	1	S	1	1	1	1	1.2
Feb 22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	S	1	1	1	1	1	1.0
Feb 23	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	S	0	0	0	0	0	0	0.7
Feb 24	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	S	0	0	1	2	1	0	2	0.3
Feb 25	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1.0
Feb 26	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0.3
Feb 27	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	S	1	1	0	0	0	1	0	0	0	0	0.4
Feb 28	1	1	1	1	0	1	1	0	0	1	1	1	1	1	S	1	1	1	1	1	1	1	1	1	0	1	0.9
Diurnal Maximum	1	1	1	1	2	2	1	1	1	1	1	2	1	2	2	1	1	2	1	2	1	1	2	1	1	1	
Diurnal Average	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.3	0.4	0.4	0.4	0.5	0.4			

C Monthly Calibration	S Daily Zero-Span Check	Q Quality Assurance
K Collection Error	N No Data (Machine Not in Service)	Y Routine Maintenance
X InValid Data (Equipment Malfunction /Recovery)	NRM UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

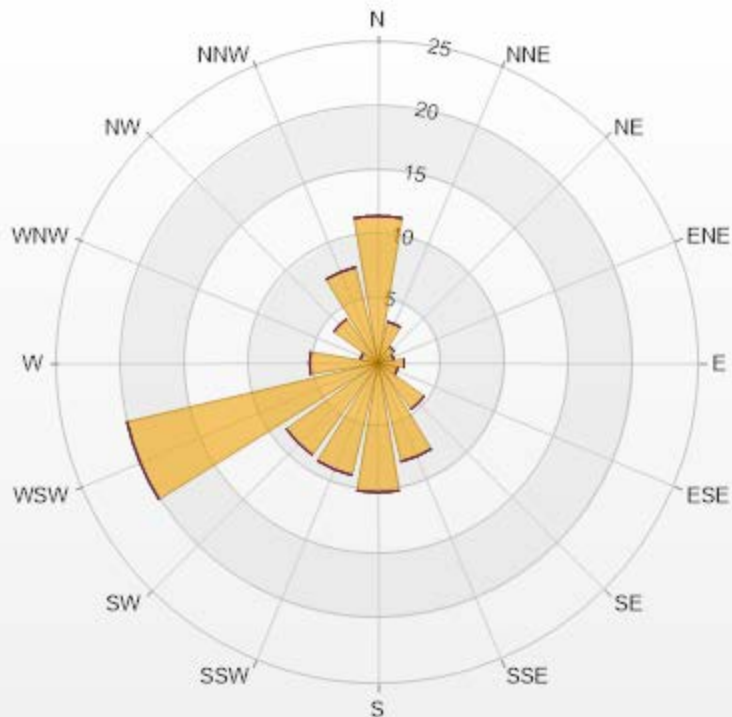
Timeseries Chart of Hourly Average for SO2 - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-SO2[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.79% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	11.46	0	0	0	0	11.46
NNE	3.3	0	0	0	0	3.3
NE	1.57	0	0	0	0	1.57
ENE	1.26	0	0	0	0	1.26
E	2.04	0	0	0	0	2.04
ESE	1.57	0	0	0	0	1.57
SE	4.4	0	0	0	0	4.4
SSE	7.85	0	0	0	0	7.85
S	10.05	0	0	0	0	10.05
SSW	8.95	0	0	0	0	8.95
SW	8.79	0	0	0	0	8.79
WSW	20.09	0	0	0	0	20.09
W	5.34	0	0	0	0	5.34
WNW	1.41	0	0	0	0	1.41
NW	4.24	0	0	0	0	4.24
NNW	7.69	0	0	0	0	7.69
Summary	100	0	0	0	0	100



PRAMP-202102

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% Icon Classes (ppb)

100 0-10

0 10-50

0 50-100

0 100-172

0 >172.0



PEACE RIVER AREA MONITORING PROGRAM

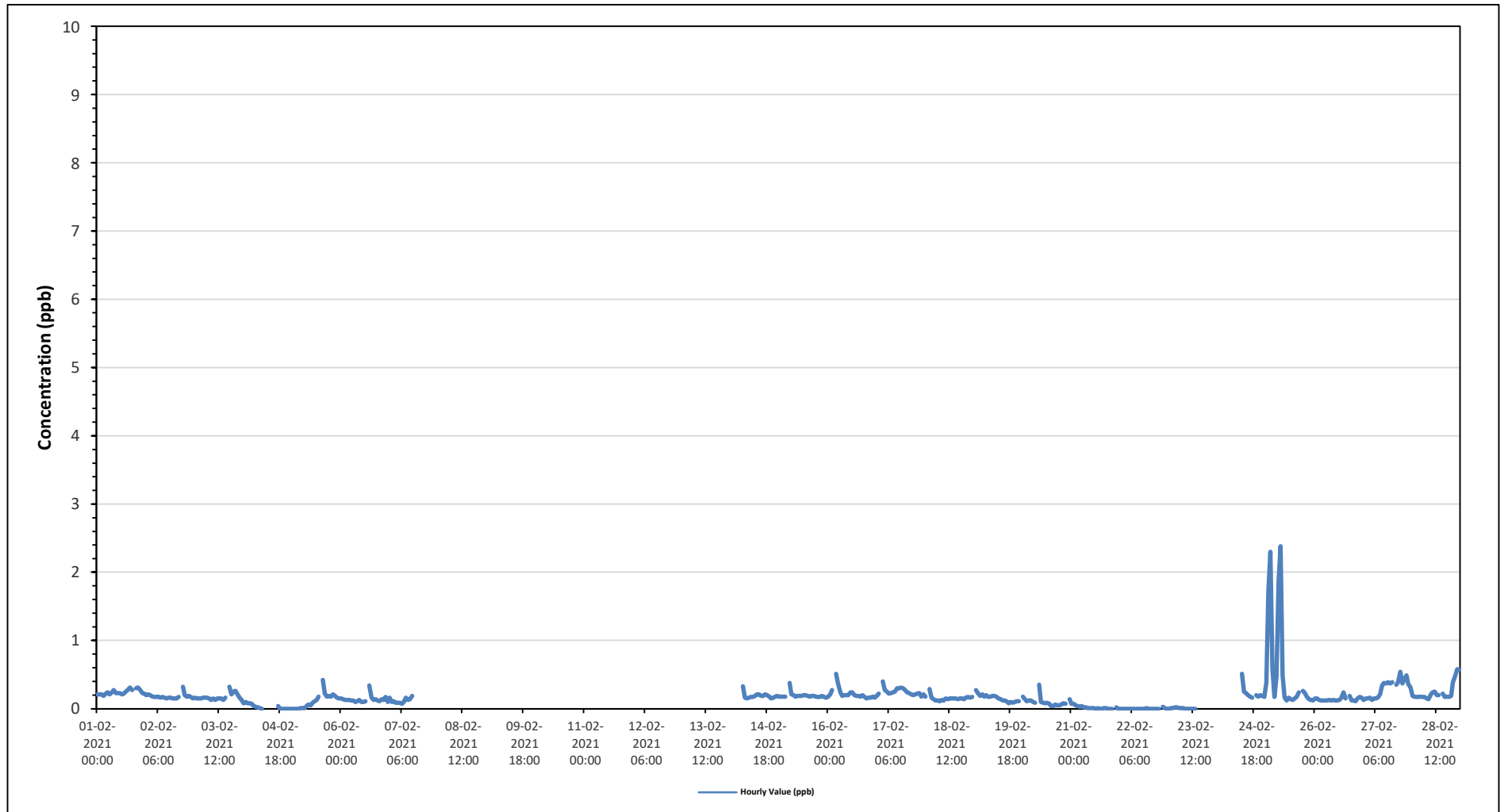
Reno Station - February 2021

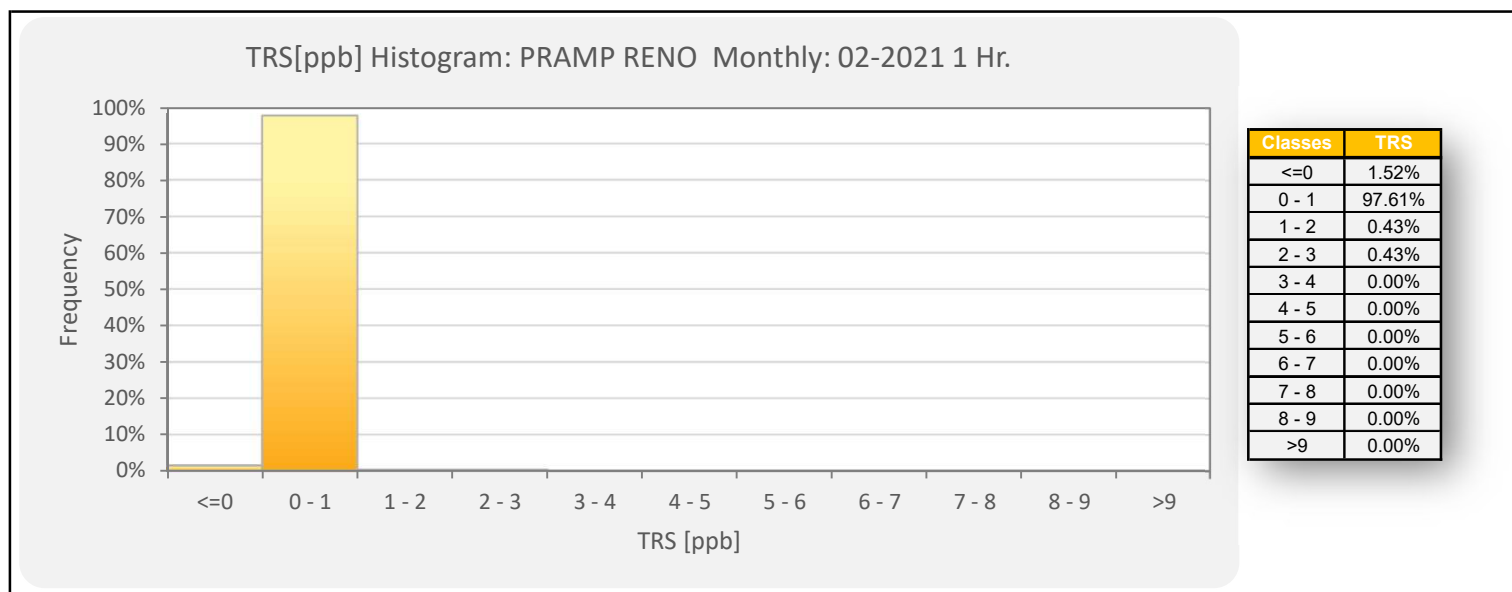
Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Alberta Ambient Air Quality Objectives (AAAQO) for H2S: 1-Hour 10 ppb, 24-Hour 3 ppb																																
Number of 1-Hour Exceedances:					0					Number of 24-Hour Exceedances:					0																	
Maximum Hourly Value:					2.38 ppb on February 25 at hour 7										Hours in Service:					672												
Maximum Daily Value:					0.55 ppb on February 25										Hours of Data:					461												
Minimum Hourly Value:					0.00 ppb on February 4 at hour 9										Hours of Missing Data:					183												
Minimum Daily Value:					0.00 ppb on February 22										Hours of Calibration:					28												
Monthly Average:					0.17 ppb										Operational Uptime:					72.8												
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average					
Feb 1	0.21	0.21	0.21	0.19	0.22	0.24	0.21	0.24	0.27	0.23	0.23	0.23	0.21	0.22	0.25	0.28	0.31	0.27	S	0.3	0.31	0.28	0.23	0.22	0.19	0.31	0.24					
Feb 2	0.2	0.21	0.2	0.18	0.17	0.17	0.18	0.16	0.17	0.16	0.15	0.16	0.16	0.15	0.15	0.15	0.17	S	0.32	0.2	0.18	0.19	0.17	0.15	0.15	0.32	0.18					
Feb 3	0.16	0.15	0.15	0.15	0.16	0.16	0.16	0.16	0.15	0.13	0.15	0.15	0.15	0.13	0.16		S	0.32	0.21	0.25	0.26	0.21	0.16	0.13	0.13	0.32	0.17					
Feb 4	0.08	0.1	0.08	0.08	0.07	0.04	0.03	0.02	0.01	0	C	C	C	C	C	C	C	0.04	0	0	0	0	0	0	0.00	0.10	-					
Feb 5	0	0	0	0	0.01	0.01	0.01	0.04	0.06	0.05	0.09	0.11	0.13	0.18	S	0.42	0.22	0.18	0.19	0.18	0.21	0.19	0.16	0.15	0.00	0.42	0.11					
Feb 6	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.1	0.11	0.13	0.1	0.1	0.11	S	0.34	0.16	0.13	0.14	0.12	0.11	0.14	0.13	0.17	0.1	0.10	0.34	0.14					
Feb 7	0.16	0.1	0.11	0.09	0.09	0.09	0.07	0.1	0.16	0.13	0.14	0.19	S	X	X	X	X	X	X	X	X	X	X	X	0.07	0.19	-					
Feb 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-					
Feb 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-					
Feb 10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-					
Feb 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-					
Feb 12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-					
Feb 13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-					
Feb 14	X	X	X	X	X	S	0.33	0.16	0.15	0.16	0.17	0.17	0.19	0.21	0.21	0.19	0.19	0.21	0.2	0.18	0.15	0.16	0.18	0.19	0.15	0.33	0.19					
Feb 15	0.18	0.18	0.18	0.18	S	0.38	0.21	0.2	0.18	0.19	0.19	0.19	0.2	0.2	0.19	0.18	0.19	0.19	0.18	0.17	0.17	0.19	0.17	0.16	0.16	0.38	0.19					
Feb 16	0.17	0.21	0.27	S	0.51	0.36	0.24	0.19	0.2	0.2	0.2	0.24	0.24	0.2	0.19	0.19	0.18	0.2	0.17	0.15	0.16	0.16	0.18	0.16	0.15	0.51	0.22					
Feb 17	0.19	0.22	S	0.4	0.27	0.25	0.22	0.23	0.24	0.25	0.3	0.3	0.31	0.3	0.27	0.24	0.23	0.21	0.2	0.21	0.22	0.23	0.18	0.21	0.18	0.40	0.25					
Feb 18	0.18	S	0.29	0.16	0.14	0.12	0.12	0.11	0.13	0.12	0.15	0.14	0.15	0.15	0.15	0.14	0.15	0.15	0.14	0.16	0.17	0.16	0.17	0.17	0.11	0.29	0.15					
Feb 19	S	0.27	0.22	0.19	0.21	0.18	0.2	0.17	0.18	0.19	0.19	0.18	0.15	0.14	0.12	0.12	0.11	0.08	0.1	0.09	0.1	0.11	0.11	S	0.08	0.27	0.16					
Feb 20	0.18	0.14	0.11	0.12	0.12	0.1	0.09	NRM	0.35	0.1	0.09	0.08	0.09	0.07	0.04	0.04	0.06	0.05	0.05	0.06	0.08	0.07	S	0.14	0.04	0.35	0.10					
Feb 21	0.07	0.07	0.05	0.04	0.03	0.04	0.02	0.02	0.01	0.01	0.01	0.01	0	0.01	0	0	0.01	0.01	0	0	0	S	0.02	0	0.00	0.07	0.02					
Feb 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	S	0.03	0.01	0	0	0.00	0.03	0.00					
Feb 23	0	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0	0	0	0	0	0	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0.00	0.02	-					
Feb 24	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0.51	0.25	0.23	0.2	0.18	0.16	S	0.2	0.18	0.2	0.19	0.17	0.16	0.51	-					
Feb 25	0.38	1.72	2.3	0.58	0.17	0.47	1.84	2.38	0.49	0.16	0.12	0.16	0.14	0.13	0.15	0.18	0.24	S	0.26	0.23	0.17	0.14	0.13	0.12	0.12	2.38	0.55					
Feb 26	0.15	0.15	0.13	0.12	0.12	0.12	0.12	0.13	0.12	0.13	0.12	0.12	0.13	0.16	0.24	0.15	S	0.19	0.12	0.12	0.11	0.15	0.17	0.16	0.11	0.24	0.14					
Feb 27	0.13	0.15	0.15	0.16	0.13	0.15	0.15	0.16	0.21	0.34	0.38	0.37	0.39	0.37	0.39	S	0.35	0.39	0.54	0.37	0.42	0.49	0.36	0.31	0.13	0.54	0.30					
Feb 28	0.19	0.18	0.17	0.17	0.18	0.17	0.17	0.15	0.14	0.21	0.24	0.25	0.2	0.2	S	0.22	0.17	0.18	0.17	0.19	0.39	0.47	0.58	0.57	0.14	0.58	0.24					
Diurnal Maximum	0.38	1.72	2.30	0.58	0.51	0.47	1.84	2.38	0.49	0.34	0.38	0.37	0.51	0.37	0.39	0.42	0.35	0.39	0.54	0.37	0.42	0.49	0.58	0.57								
Diurnal Average	0.15	0.22	0.25	0.16	0.14	0.16	0.21	0.24	0.16	0.14	0.15	0.16	0.17	0.16	0.18	0.17	0.17	0.17	0.16	0.18	0.19	0.18	0.16									
C	Monthly Calibration							S	Daily Zero-Span Check										Q	Quality Assurance												
K	Collection Error							N	No Data (Machine Not in Service)										Y	Routine Maintenance										P	Power Failure	
X	InValid Data (Equipment Malfunction/Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																							
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																

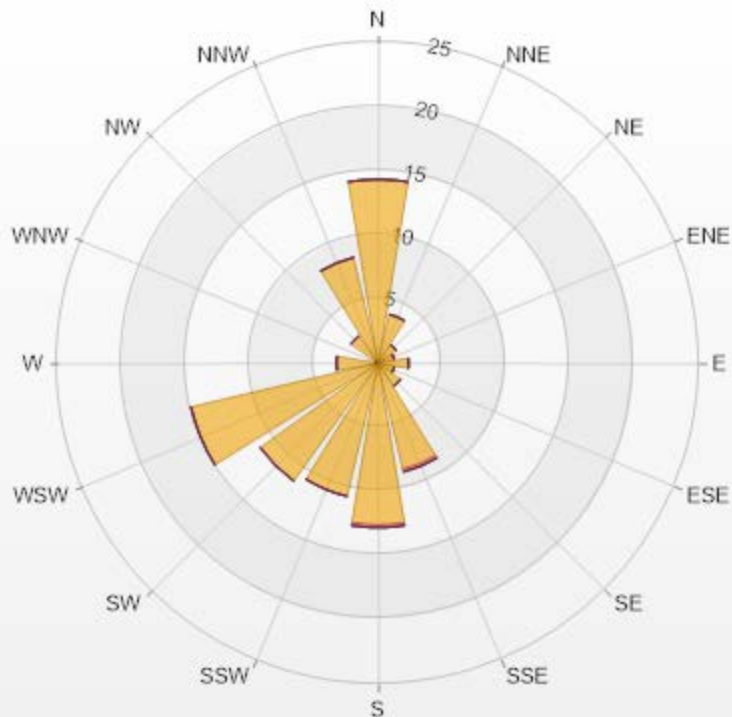
Timeseries Chart of Hourly Average for TRS - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-TRS[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 68.60% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	14.32	0	0	0	0	14.32
NNE	3.9	0	0	0	0	3.9
NE	1.74	0	0	0	0	1.74
ENE	1.3	0	0	0	0	1.3
E	2.39	0	0	0	0	2.39
ESE	1.3	0	0	0	0	1.3
SE	2.17	0	0	0	0	2.17
SSE	8.46	0.22	0	0	0	8.68
S	12.58	0.22	0	0	0	12.8
SSW	10.63	0	0	0	0	10.63
SW	11.28	0	0	0	0	11.28
WSW	14.97	0	0	0	0	14.97
W	3.25	0	0	0	0	3.25
WNW	0.22	0	0	0	0	0.22
NW	2.6	0	0	0	0	2.6
NNW	8.46	0	0	0	0	8.46
Summary	100	0.44	0	0	0	100



PRAMP-202102

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% Icon Classes (ppb)

100 0-2

0 2-5

0 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

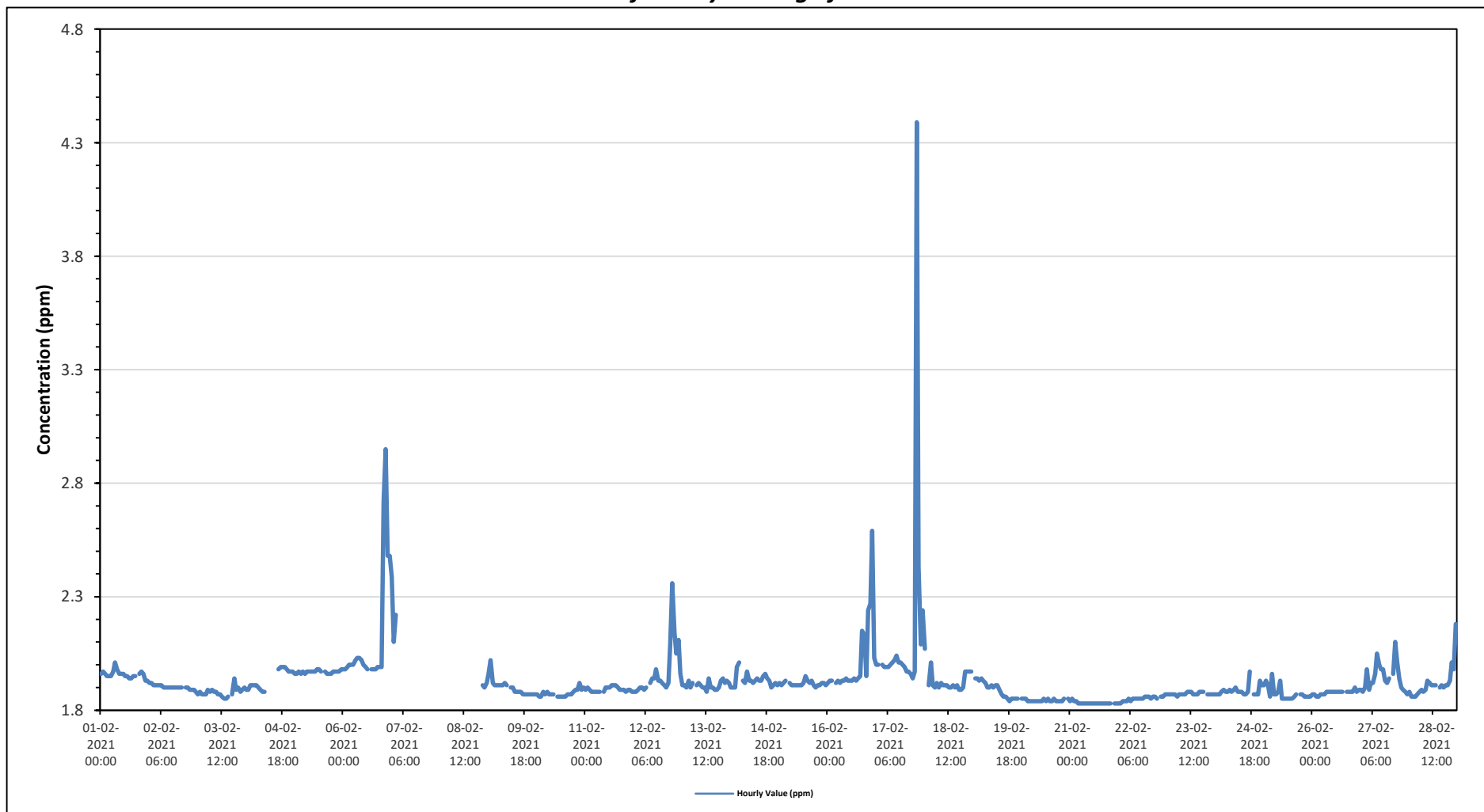
Reno Station - February 2021

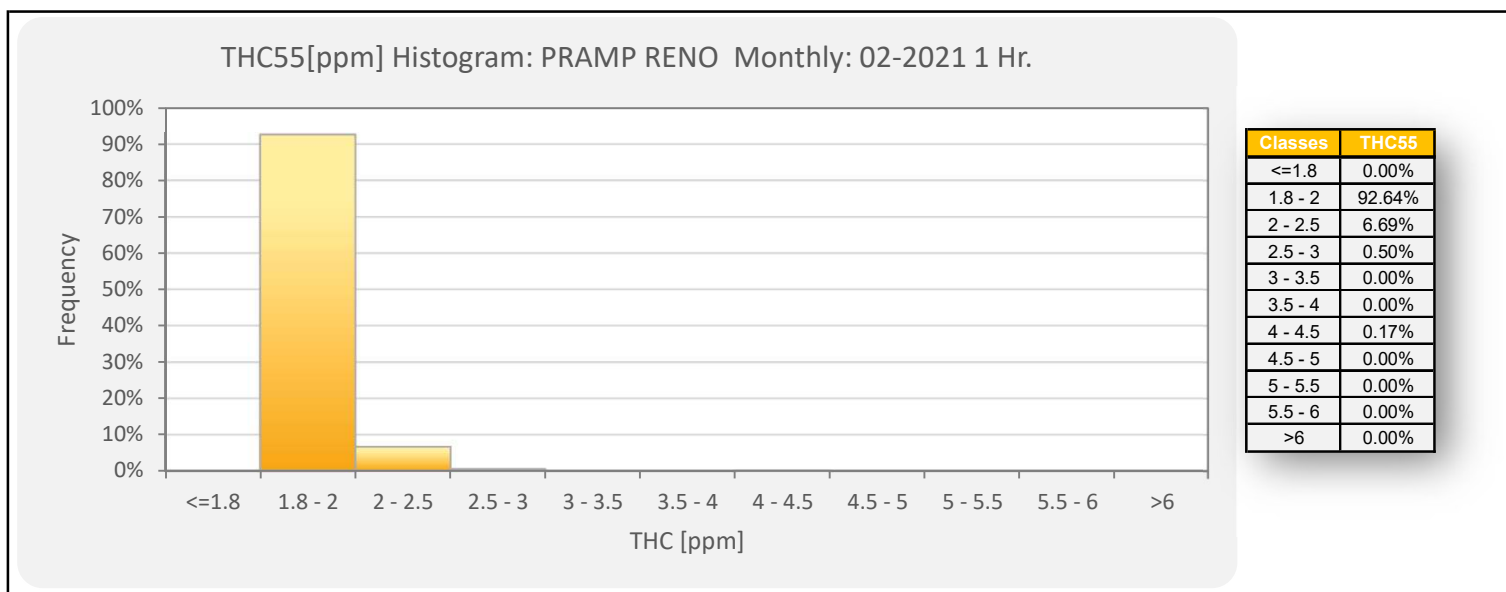
Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

Maximum Hourly Value:		4.39 ppm on February 17 at hour 20														Hours in Service:		672									
Maximum Daily Value:		2.13 ppm on February 17														Hours of Data:		598									
Minimum Hourly Value:		1.83 ppm on February 21 at hour 4														Hours of Missing Data:		42									
Minimum Daily Value:		1.83 ppm on February 21														Hours of Calibration:		32									
Monthly Average:		1.92 ppm														Operational Uptime:		93.8									
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	1.96	1.97	1.96	1.95	1.95	1.95	1.97	2.01	1.98	1.96	1.96	1.96	1.95	1.95	1.94	1.94	1.95	1.95	S	1.96	1.97	1.96	1.93	1.93	1.93	2.01	1.96
Feb 2	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	S	1.90	1.90	1.89	1.89	1.89	1.88	1.88	1.92	1.90
Feb 3	1.87	1.88	1.87	1.87	1.87	1.89	1.88	1.89	1.88	1.88	1.87	1.87	1.86	1.85	1.85	1.86	S	1.87	1.94	1.89	1.90	1.88	1.89	1.90	1.85	1.94	1.88
Feb 4	1.89	1.89	1.91	1.91	1.91	1.91	1.90	1.89	1.88	1.88	C	C	C	C	C	S	1.98	1.99	1.99	1.99	1.98	1.97	1.97	1.97	1.88	1.99	1.93
Feb 5	1.96	1.96	1.97	1.96	1.97	1.96	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.97	S	1.97	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.98	1.96	1.98	1.97
Feb 6	1.98	1.98	1.99	2.00	2.00	2.00	2.02	2.03	2.03	2.02	2.00	1.99	1.98	S	1.98	1.98	1.98	1.99	1.99	1.99	2.72	2.95	2.48	2.48	1.98	2.95	2.11
Feb 7	2.39	2.10	2.22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2.10	2.39	-
Feb 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NRM	NRM	NRM	1.91	1.90	1.92	1.90	1.92	-
Feb 9	1.96	2.02	1.92	1.91	1.91	1.91	1.91	1.91	1.92	1.91	S	1.90	1.90	1.88	1.88	1.88	1.88	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	2.02	1.90
Feb 10	1.87	1.86	1.86	1.88	1.87	1.88	1.87	1.87	1.87	S	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.88	1.89	1.89	1.92	1.89	1.90	1.90	1.86	1.92	1.87
Feb 11	1.89	1.90	1.89	1.88	1.88	1.88	1.88	1.88	S	1.88	1.90	1.90	1.90	1.91	1.91	1.91	1.90	1.89	1.89	1.89	1.88	1.89	1.88	1.88	1.88	1.91	1.89
Feb 12	1.88	1.88	1.89	1.90	1.90	1.89	1.90	S	1.92	1.94	1.94	1.98	1.93	1.93	1.92	1.91	1.90	1.92	2.09	2.36	2.14	2.05	2.11	1.96	1.88	2.36	1.97
Feb 13	1.91	1.91	1.90	1.93	1.90	1.92	S	1.91	1.92	1.91	1.90	1.90	1.88	1.94	1.90	1.90	1.89	1.89	1.90	1.93	1.94	1.92	1.93	1.92	1.88	1.94	1.91
Feb 14	1.90	1.90	1.90	1.99	2.01	S	1.93	1.92	1.97	1.93	1.93	1.92	1.93	1.94	1.93	1.93	1.95	1.96	1.94	1.93	1.90	1.91	1.92	1.91	1.90	2.01	1.93
Feb 15	1.92	1.91	1.92	1.93	S	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.95	1.93	1.92	1.93	1.91	1.90	1.91	1.91	1.92	1.92	1.91	1.90	1.95	1.92
Feb 16	1.92	1.93	1.93	S	1.92	1.93	1.92	1.93	1.93	1.94	1.93	1.93	1.93	1.94	1.93	1.94	1.95	2.15	2.13	1.95	2.24	2.27	2.59	2.03	1.92	2.59	2.01
Feb 17	2.00	2.00	S	2.00	1.99	1.99	1.99	2.00	2.01	2.02	2.04	2.01	2.01	2.00	1.99	1.97	1.97	1.96	1.94	1.97	4.39	2.43	2.09	2.24	1.94	4.39	2.13
Feb 18	2.07	S	1.91	2.01	1.91	1.90	1.92	1.90	1.92	1.91	1.91	1.91	1.90	1.90	1.91	1.90	1.91	1.89	1.89	1.90	1.97	1.97	1.97	1.97	1.89	2.07	1.93
Feb 19	S	1.94	1.94	1.93	1.94	1.93	1.92	1.90	1.90	1.91	1.90	1.91	1.91	1.89	1.87	1.86	1.86	1.85	1.84	1.85	1.85	1.85	1.85	S	1.84	1.94	1.89
Feb 20	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.85	1.84	1.85	1.84	1.84	1.85	1.84	1.84	1.84	1.84	1.85	S	1.85	1.84	1.85	1.84
Feb 21	1.84	1.85	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	S	1.83	1.83	1.83	1.85	1.83
Feb 22	1.83	1.83	1.84	1.84	1.84	1.85	1.84	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.85	1.86	1.86	1.85	S	1.86	1.86	1.87	1.83	1.87	1.85
Feb 23	1.87	1.87	1.87	1.87	1.87	1.86	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.87	1.87	1.87	1.88	1.88	1.88	S	1.87	1.87	1.87	1.87	1.86	1.88	1.87
Feb 24	1.87	1.87	1.87	1.88	1.89	1.88	1.88	1.89	1.88	1.89	1.90	1.88	1.88	1.88	1.87	1.87	1.88	1.97	S	1.87	1.87	1.87	1.93	1.91	1.87	1.97	1.89
Feb 25	1.91	1.93	1.91	1.86	1.96	1.87	1.87	1.88	1.93	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.87	S	1.87	1.87	1.86	1.86	1.86	1.86	1.85	1.96	1.88
Feb 26	1.87	1.87	1.86	1.86	1.87	1.87	1.87	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	S	1.88	1.88	1.88	1.88	1.90	1.88	1.89	1.86	1.90	1.88
Feb 27	1.89	1.88	1.90	1.98	1.89	1.92	1.92	1.96	2.05	2.00	1.98	1.98	1.93	1.92	1.94	S	1.96	2.10	2.01	1.94	1.90	1.89	1.88	1.87	1.87	2.10	1.94
Feb 28	1.88	1.86	1.86	1.86	1.87	1.88	1.89	1.88	1.89	1.93	1.92	1.91	1.91	1.91	S	1.90	1.91	1.90	1.91	1.91	1.93	2.01	1.98	2.18	1.86	2.18	1.92
Diurnal Maximum	2.39	2.10	2.22	2.01	2.01	2.00	2.02	2.03	2.05	2.02	2.04	2.01	2.01	2.00	1.99	1.98	1.98	2.15	2.13	2.36	4.39	2.95	2.59	2.48			
Diurnal Average	1.93	1.91	1.91	1.91	1.91	1.90	1.90	1.91	1.92	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.91	1.92	1.92	1.93	2.06	1.99	1.97	1.95			
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance										
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance										
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

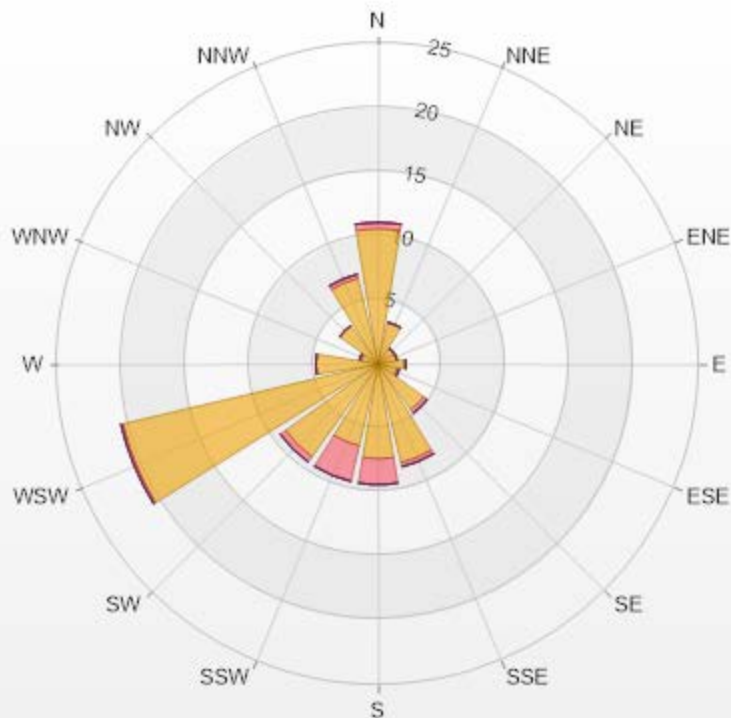
Timeseries Chart of Hourly Average for THC - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-THC55[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 88.99% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	10.54	0.5	0	0	0	11.04
NNE	3.34	0	0	0	0	3.34
NE	1.51	0	0	0	0	1.51
ENE	1.51	0	0	0	0	1.51
E	2.17	0	0	0	0	2.17
ESE	1.51	0.17	0	0	0	1.68
SE	4.35	0.33	0	0	0	4.68
SSE	7.86	0.33	0	0	0	8.19
S	7.36	2.01	0	0	0	9.37
SSW	6.52	2.84	0	0	0	9.36
SW	8.86	0.5	0	0	0	9.36
WSW	20.4	0.17	0	0	0	20.57
W	4.85	0	0	0	0	4.85
WNW	1.34	0.17	0	0	0	1.51
NW	3.68	0	0	0	0	3.68
NNW	6.86	0.33	0	0	0	7.19
Summary	92.66	7.35	0	0	0	100



PRAMP-202102

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% Icon Classes (ppm)

93 0-2

7 2-5

0 5-10

0 10-40

0 >40.0



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2021

Summary of Hourly Averages

METHANE (CH₄) in ppm

Maximum Hourly Value:	4.37 ppm on February 17 at hour 20	Hours in Service:	672
Maximum Daily Value:	2.13 ppm on February 17	Hours of Data:	598
Minimum Hourly Value:	1.83 ppm on February 21 at hour 4	Hours of Missing Data:	42
Minimum Daily Value:	1.83 ppm on February 21	Hours of Calibration:	32
Monthly Average:	1.92 ppm	Operational Uptime:	93.8

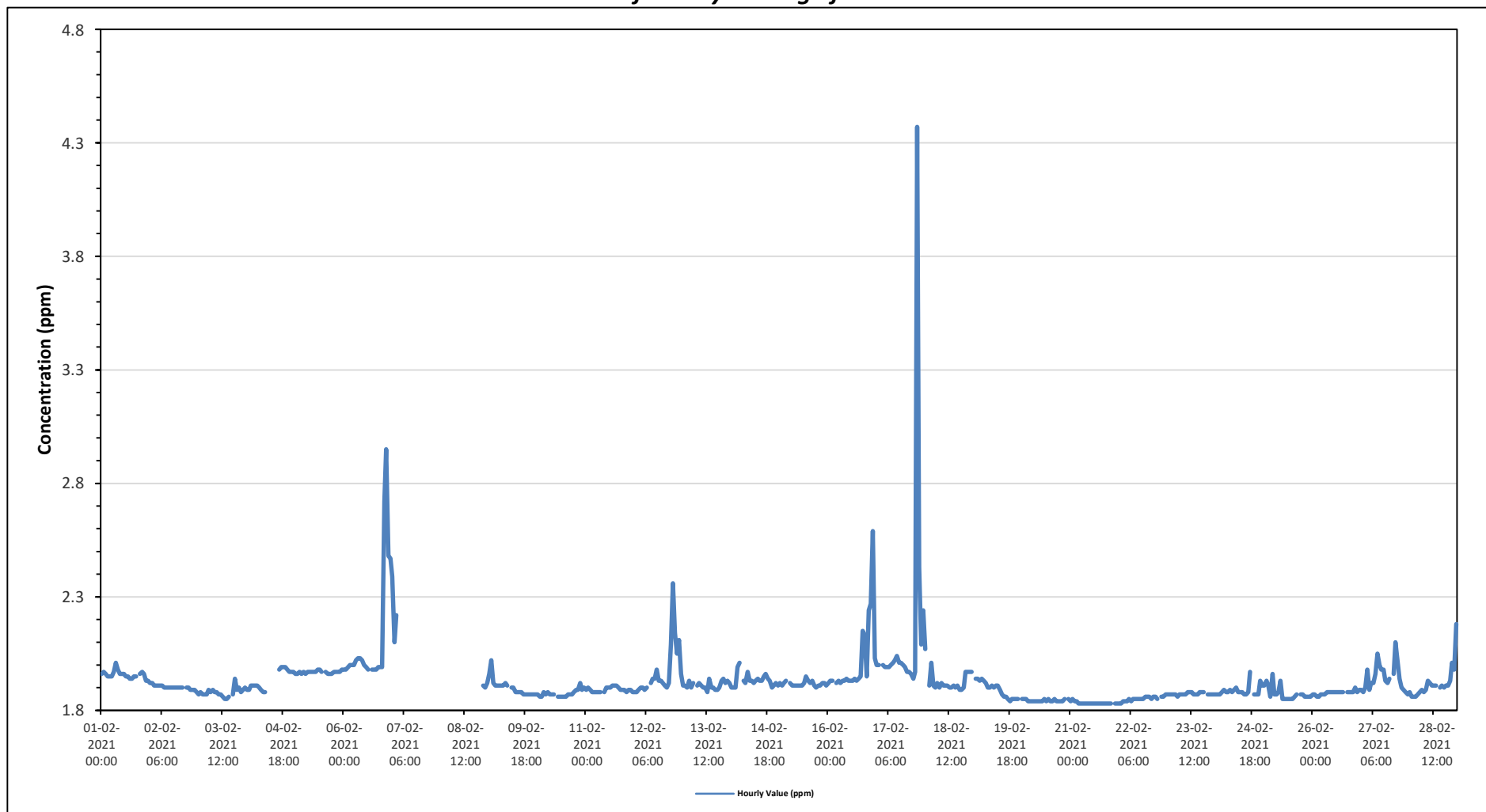
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	1.96	1.97	1.96	1.95	1.95	1.95	1.97	2.01	1.98	1.96	1.96	1.96	1.95	1.95	1.94	1.94	1.95	1.95	S	1.96	1.97	1.96	1.93	1.93	1.93	2.01	1.96
Feb 2	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	S	1.90	1.90	1.89	1.89	1.89	1.88	1.88	1.92	1.90
Feb 3	1.87	1.88	1.87	1.87	1.87	1.89	1.88	1.89	1.88	1.88	1.87	1.87	1.86	1.85	1.85	1.86	S	1.87	1.94	1.89	1.90	1.88	1.89	1.90	1.85	1.94	1.88
Feb 4	1.89	1.89	1.91	1.91	1.91	1.91	1.90	1.89	1.88	1.88	C	C	C	C	C	S	1.98	1.99	1.99	1.99	1.98	1.97	1.97	1.97	1.88	1.99	1.93
Feb 5	1.96	1.96	1.97	1.96	1.97	1.96	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.97	S	1.97	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.98	1.96	1.98	1.97
Feb 6	1.98	1.98	1.99	2.00	2.00	2.00	2.02	2.03	2.03	2.02	2.00	1.99	1.98	S	1.98	1.98	1.98	1.99	1.99	1.99	2.72	2.95	2.48	2.47	1.98	2.95	2.11
Feb 7	2.39	2.10	2.22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2.10	2.39	-
Feb 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NRM	NRM	NRM	1.91	1.90	1.92	1.90	1.92	-
Feb 9	1.96	2.02	1.92	1.91	1.91	1.91	1.91	1.91	1.92	1.91	S	1.90	1.90	1.88	1.88	1.88	1.88	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	2.02	1.90
Feb 10	1.87	1.86	1.86	1.88	1.87	1.88	1.87	1.87	1.87	S	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.88	1.89	1.89	1.92	1.89	1.90	1.86	1.92	1.87
Feb 11	1.89	1.90	1.89	1.88	1.88	1.88	1.88	1.88	S	1.88	1.90	1.90	1.90	1.91	1.91	1.91	1.90	1.89	1.89	1.89	1.88	1.89	1.89	1.88	1.88	1.91	1.89
Feb 12	1.88	1.88	1.89	1.90	1.90	1.89	1.90	S	1.92	1.94	1.94	1.98	1.93	1.93	1.92	1.91	1.90	1.92	2.09	2.36	2.14	2.05	2.11	1.96	1.88	2.36	1.97
Feb 13	1.91	1.91	1.90	1.93	1.90	1.92	S	1.91	1.92	1.91	1.90	1.90	1.88	1.94	1.90	1.90	1.89	1.89	1.90	1.93	1.94	1.92	1.93	1.92	1.88	1.94	1.91
Feb 14	1.90	1.90	1.90	1.99	2.01	S	1.93	1.92	1.97	1.93	1.93	1.92	1.93	1.94	1.93	1.93	1.95	1.96	1.94	1.93	1.90	1.91	1.92	1.91	1.90	2.01	1.93
Feb 15	1.92	1.91	1.92	1.93	S	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.95	1.93	1.92	1.93	1.91	1.90	1.91	1.91	1.92	1.92	1.91	1.90	1.95	1.92
Feb 16	1.92	1.93	1.93	S	1.92	1.93	1.92	1.93	1.93	1.94	1.93	1.93	1.93	1.94	1.93	1.94	1.95	2.15	2.13	1.95	2.24	2.27	2.59	2.03	1.92	2.59	2.01
Feb 17	2.00	2.00	S	2.00	1.99	1.99	1.99	2.00	2.01	2.02	2.04	2.01	2.01	2.00	1.99	1.97	1.97	1.96	1.94	1.97	4.37	2.43	2.09	2.24	1.94	4.37	2.13
Feb 18	2.07	S	1.91	2.01	1.91	1.90	1.92	1.90	1.92	1.91	1.91	1.91	1.90	1.90	1.91	1.90	1.91	1.89	1.89	1.90	1.97	1.97	1.97	1.97	1.89	2.07	1.93
Feb 19	S	1.94	1.94	1.93	1.94	1.93	1.92	1.90	1.90	1.91	1.90	1.91	1.91	1.89	1.87	1.86	1.86	1.85	1.84	1.85	1.85	1.85	1.85	S	1.84	1.94	1.89
Feb 20	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.85	1.84	1.85	1.84	1.84	1.85	1.84	1.84	1.84	1.84	1.85	S	1.85	1.84	1.85	1.84
Feb 21	1.84	1.85	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	S	1.83	1.83	1.83	1.85	1.83
Feb 22	1.83	1.83	1.84	1.84	1.84	1.85	1.84	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.86	1.85	1.86	1.86	1.85	S	1.86	1.86	1.87	1.83	1.87	1.85
Feb 23	1.87	1.87	1.87	1.87	1.87	1.86	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.87	1.87	1.87	1.88	1.88	1.88	S	1.87	1.87	1.87	1.87	1.86	1.88	1.87
Feb 24	1.87	1.87	1.87	1.88	1.89	1.88	1.88	1.89	1.88	1.89	1.90	1.88	1.88	1.88	1.87	1.87	1.88	1.87	S	1.87	1.87	1.87	1.93	1.91	1.87	1.97	1.89
Feb 25	1.91	1.93	1.91	1.86	1.96	1.87	1.87	1.88	1.93	1.85	1.85	1.85	1.85	1.85	1.86	1.87	S	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.85	1.96	1.88
Feb 26	1.87	1.87	1.86	1.86	1.87	1.87	1.87	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	S	1.88	1.88	1.88	1.88	1.90	1.88	1.89	1.86	1.90	1.88
Feb 27	1.89	1.88	1.90	1.98	1.89	1.92	1.92	1.96	2.05	2.00	1.98	1.98	1.93	1.92	1.94	S	1.96	2.10	2.01	1.94	1.90	1.89	1.88	1.87	1.87	2.10	1.94
Feb 28	1.88	1.86	1.86	1.86	1.87	1.88	1.89	1.88	1.89	1.93	1.92	1.91	1.91	1.91	S	1.90	1.91	1.90	1.91	1.91	1.93	2.01	1.98	2.18	1.86	2.18	1.92
Diurnal Maximum	2.39	2.10	2.22	2.01	2.01	2.00	2.02	2.03	2.05	2.02	2.04	2.01	2.01	2.00	1.99	1.98	1.98	2.15	2.13	2.36	4.37	2.95	2.59	2.47			
Diurnal Average	1.93	1.91	1.91	1.91	1.91	1.90	1.90	1.91	1.92	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.91	1.92	1.92	1.93	2.05	1.99	1.97	1.95			

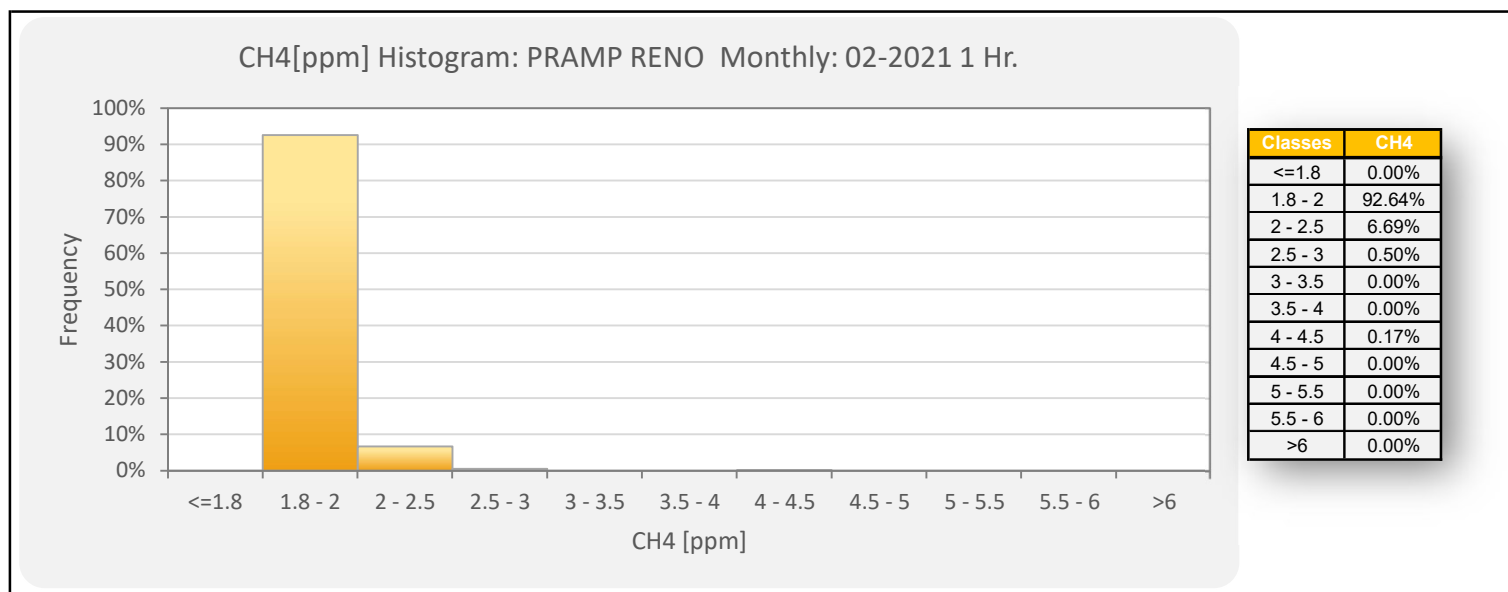
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

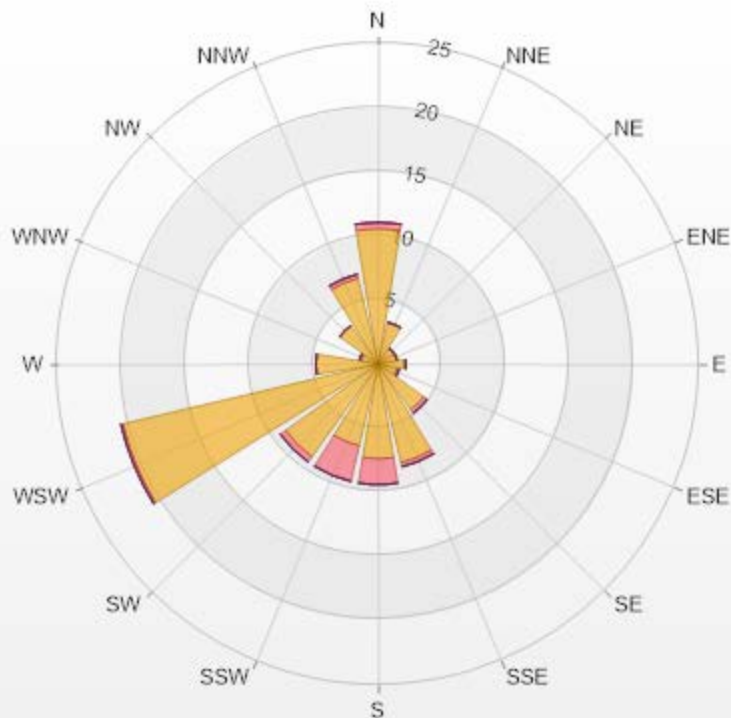
Timeseries Chart of Hourly Average for CH4 - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-CH4[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 88.99% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	10.54	0.5	0	0	0	11.04
NNE	3.34	0	0	0	0	3.34
NE	1.51	0	0	0	0	1.51
ENE	1.51	0	0	0	0	1.51
E	2.17	0	0	0	0	2.17
ESE	1.51	0.17	0	0	0	1.68
SE	4.35	0.33	0	0	0	4.68
SSE	7.86	0.33	0	0	0	8.19
S	7.36	2.01	0	0	0	9.37
SSW	6.52	2.84	0	0	0	9.36
SW	8.86	0.5	0	0	0	9.36
WSW	20.4	0.17	0	0	0	20.57
W	4.85	0	0	0	0	4.85
WNW	1.34	0.17	0	0	0	1.51
NW	3.68	0	0	0	0	3.68
NNW	6.86	0.33	0	0	0	7.19
Summary	92.66	7.35	0	0	0	100



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% Icon Classes (ppm)

93 0-2

7 2-5

0 5-10

0 10-20

0 >20.0



PEACE RIVER AREA MONITORING PROGRAM

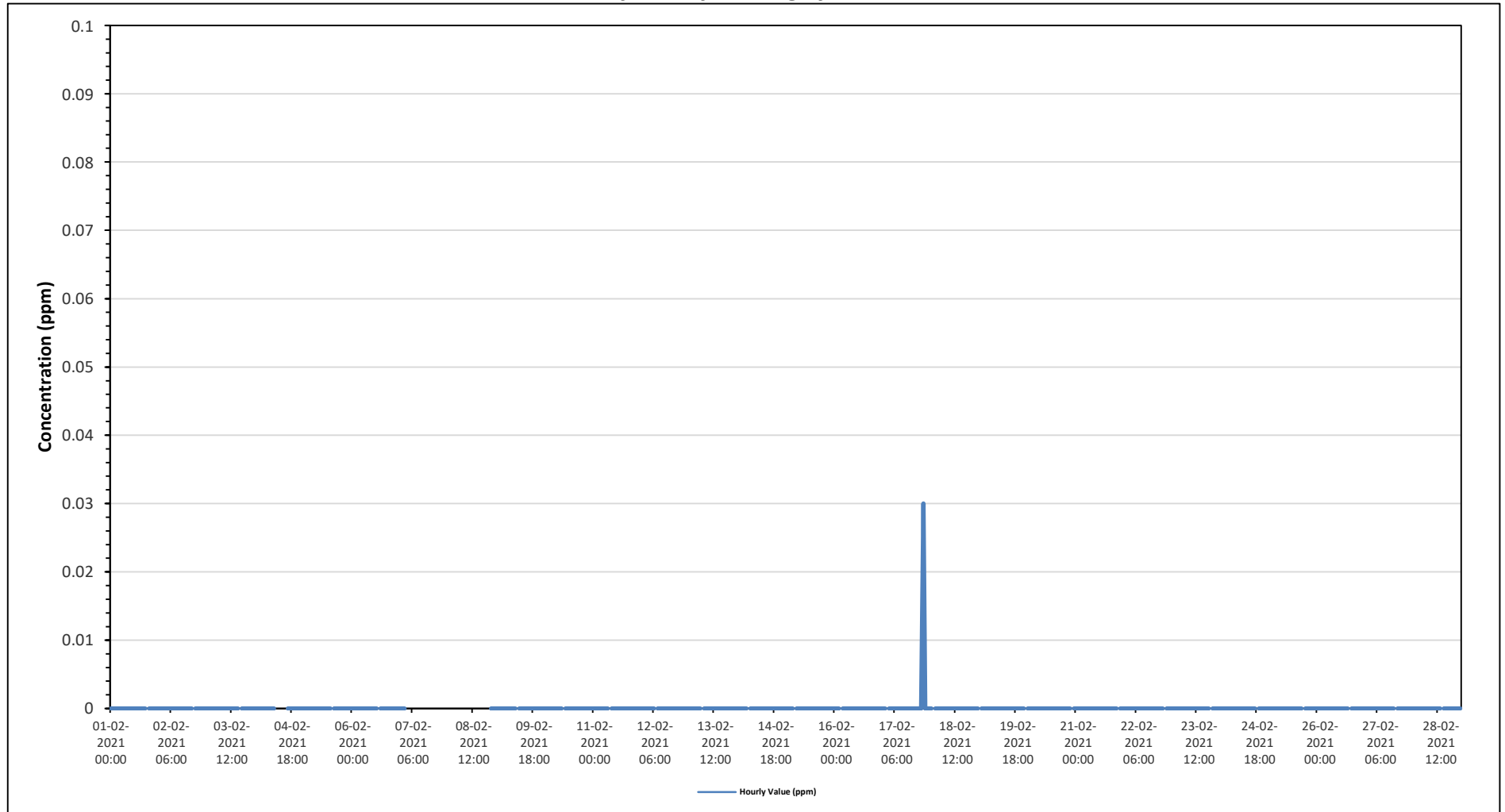
Reno Station - February 2021

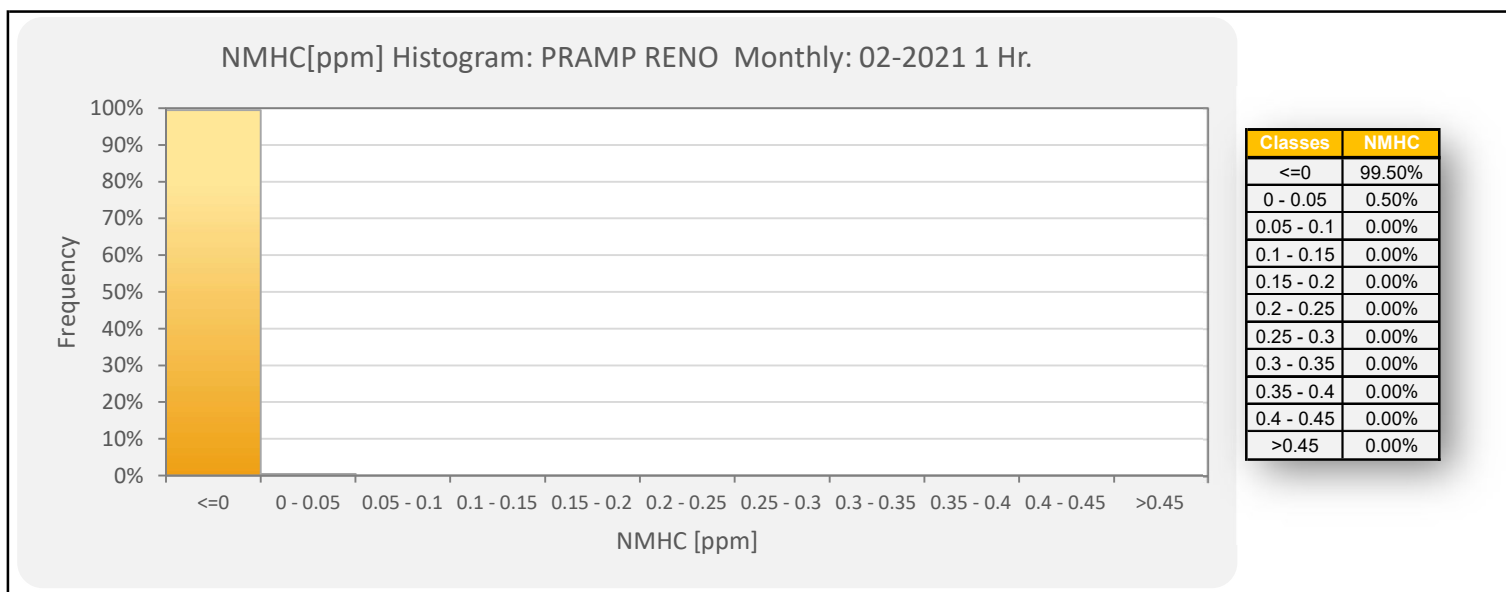
Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

Maximum Hourly Value:										0.03 ppm on February 17 at hour 20										Hours in Service:										672		
Maximum Daily Value:										0.00 ppm on February 17										Hours of Data:										598		
Minimum Hourly Value:										0.00 ppm on February 1 at hour 0										Hours of Missing Data:										42		
Minimum Daily Value:										0.00 ppm on February 1										Hours of Calibration:										32		
Monthly Average:										0.00 ppm										Operational Uptime:										93.8		
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23								
Feb 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	C	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 7	0.00	0.00	0.00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
Feb 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NRM	NRM	NRM	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 13	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 14	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 15	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 16	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 17	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 18	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 19	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00					
Feb 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00					
Feb 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00					
Feb 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Feb 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Diurnal Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00					
Diurnal Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance															
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance															
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																							
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																

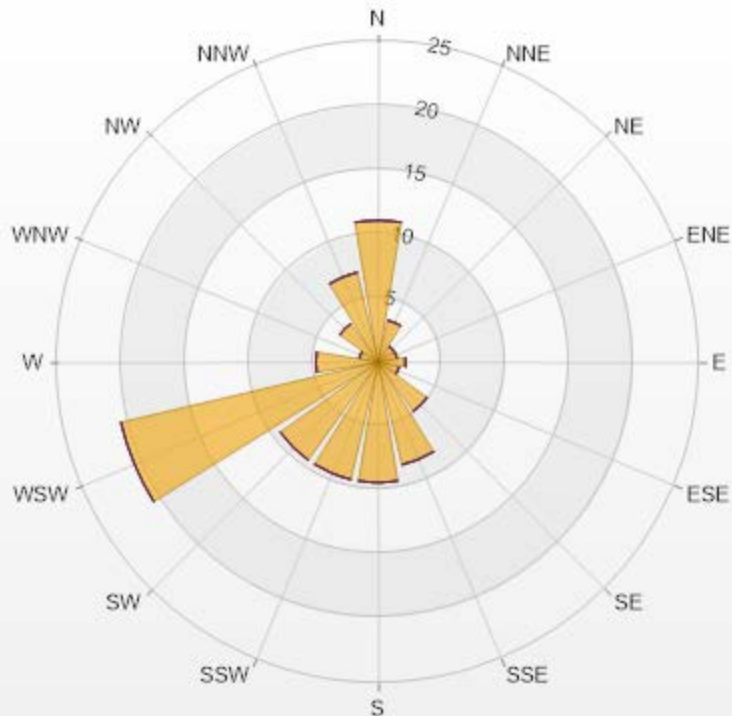
Timeseries Chart of Hourly Average for NMHC - Reno Station





Wind: PRAMP RENO Poll.: PRAMP RENO-NMHC[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 88.99% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-0.9	0.9-2	>2.0	Total
N	11.04	0	0	0	0	11.04
NNE	3.34	0	0	0	0	3.34
NE	1.51	0	0	0	0	1.51
ENE	1.51	0	0	0	0	1.51
E	2.17	0	0	0	0	2.17
ESE	1.67	0	0	0	0	1.67
SE	4.68	0	0	0	0	4.68
SSE	8.19	0	0	0	0	8.19
S	9.36	0	0	0	0	9.36
SSW	9.36	0	0	0	0	9.36
SW	9.36	0	0	0	0	9.36
WSW	20.57	0	0	0	0	20.57
W	4.85	0	0	0	0	4.85
WNW	1.51	0	0	0	0	1.51
NW	3.68	0	0	0	0	3.68
NNW	7.19	0	0	0	0	7.19
Summary	100	0	0	0	0	100



PRAMP-202102

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% Icon Classes (ppm)

100 0-0.1

0 0.1-0.3

0 0.3-0.9

0 0.9-2

0 >2.0



PEACE RIVER AREA MONITORING PROGRAM

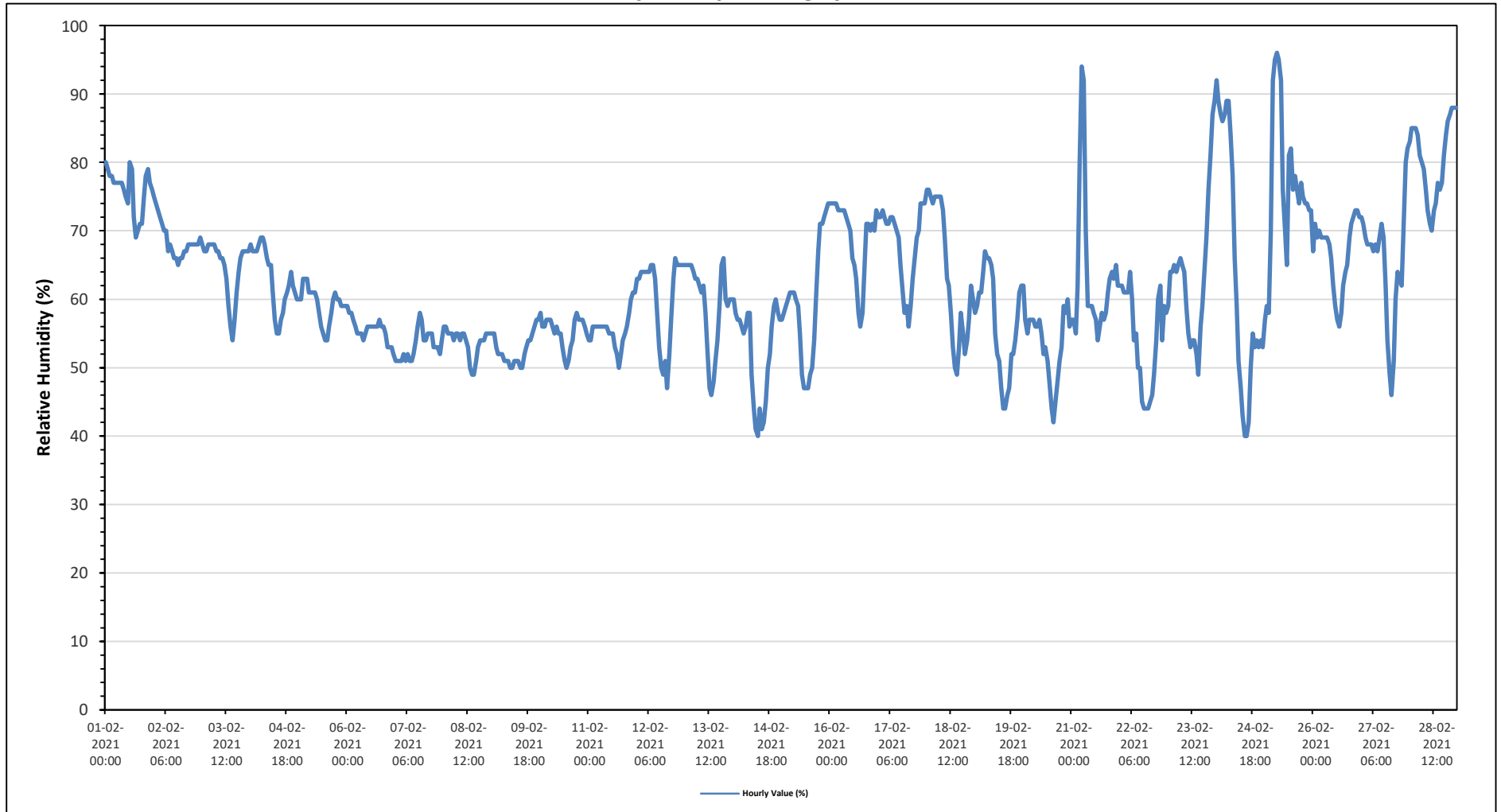
Reno Station - February 2021

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:					96	%	on February 25 at hour 6										Hours in Service:					672							
Maximum Daily Value:					80.5	%	on February 28										Hours of Data:					672							
Minimum Hourly Value:					40	%	on February 14 at hour 12										Hours of Missing Data:					0							
Minimum Daily Value:					52.2	%	on February 14										Hours of Calibration:					0							
Monthly Average:					61.9	%											Operational Uptime:					100.0							
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average		
Feb 1	80	79	78	78	77	77	77	77	77	76	75	74	80	79	72	69	70	71	71	75	78	79	77	76	69	80	75.9		
Feb 2	75	74	73	72	71	70	70	67	68	67	66	66	65	66	66	67	67	68	68	68	68	68	69	65	75	68.6			
Feb 3	68	67	67	68	68	68	68	67	67	66	66	65	63	59	56	54	57	61	64	66	67	67	67	54	68	64.7			
Feb 4	68	67	67	67	68	69	69	68	66	65	65	61	57	55	55	57	58	60	61	62	64	62	61	60	55	69	63.0		
Feb 5	60	60	63	63	63	61	61	61	61	60	58	56	55	54	54	56	58	60	61	60	60	59	59	59	54	63	59.3		
Feb 6	59	58	58	57	56	55	55	55	54	55	56	56	56	56	56	56	57	56	56	55	53	53	53	52	52	59	55.5		
Feb 7	51	51	51	51	52	51	52	51	51	52	54	56	58	57	54	54	55	55	55	53	53	53	52	54	51	58	53.2		
Feb 8	56	56	55	55	55	54	55	55	54	55	55	54	53	50	49	49	51	53	54	54	54	55	55	49	56	53.8			
Feb 9	55	55	53	52	52	52	51	51	51	50	50	51	51	51	50	50	52	53	54	54	55	56	57	50	57	52.6			
Feb 10	58	56	56	57	57	57	56	55	56	55	55	53	51	50	51	53	54	57	58	57	57	56	55	50	58	55.3			
Feb 11	54	54	56	56	56	56	56	56	56	56	55	55	55	53	52	50	52	54	55	56	58	60	61	50	61	55.5			
Feb 12	63	63	64	64	64	64	64	65	65	63	58	53	50	49	51	47	52	57	63	66	65	65	65	47	66	60.2			
Feb 13	65	65	65	65	64	63	63	62	61	62	58	53	47	46	48	51	54	59	65	66	60	59	60	46	66	59.2			
Feb 14	60	58	57	57	56	55	56	58	58	49	44	41	40	44	41	42	45	50	52	56	59	60	58	40	60	52.2			
Feb 15	57	58	59	60	61	61	61	60	59	55	49	47	47	47	49	50	54	60	67	71	71	72	73	47	74	59.3			
Feb 16	74	74	74	74	73	73	73	73	72	71	70	66	65	63	58	56	58	64	71	71	70	71	70	56	74	69.0			
Feb 17	72	72	73	72	71	71	72	72	71	70	69	65	61	58	59	56	59	63	66	69	70	74	74	56	74	68.0			
Feb 18	76	76	75	74	75	75	75	75	73	69	63	62	58	53	50	49	53	58	55	52	54	57	62	49	76	63.7			
Feb 19	58	59	61	61	64	67	66	66	65	63	55	52	51	47	44	44	46	47	52	52	54	57	61	44	67	56.4			
Feb 20	62	57	55	57	57	57	56	56	57	55	52	53	51	48	44	42	45	48	51	53	59	58	60	42	62	53.7			
Feb 21	57	57	55	62	80	94	92	70	59	59	59	58	57	54	56	58	57	58	61	63	64	63	65	54	94	63.3			
Feb 22	62	62	61	61	61	64	60	54	55	50	50	45	44	44	44	45	46	49	54	60	62	54	59	44	64	54.3			
Feb 23	59	64	64	65	64	65	66	65	64	59	55	53	54	54	52	49	56	59	64	69	76	81	87	49	89	63.9			
Feb 24	92	89	87	86	87	89	89	84	78	66	59	51	47	43	40	40	42	50	55	53	54	53	54	40	92	64.2			
Feb 25	57	59	58	70	92	95	96	95	92	76	70	65	81	82	76	78	76	74	77	75	74	74	73	57	96	76.6			
Feb 26	67	71	69	70	69	69	69	69	68	66	62	59	57	56	58	62	64	65	69	71	72	73	73	56	73	66.7			
Feb 27	72	71	69	68	68	68	67	68	67	69	71	69	62	54	49	46	51	60	64	63	62	71	80	46	82	65.5			
Feb 28	83	85	85	85	84	81	80	79	76	73	71	70	73	74	77	76	77	81	84	86	87	88	88	70	88	80.5			
Diurnal Maximum	92	89	87	86	92	95	96	95	92	76	75	74	81	82	77	78	77	81	84	86	87	88	88	89					
Diurnal Average	65.0	64.9	64.6	65.3	66.6	67.2	67.0	65.5	64.3	61.9	59.6	57.5	56.8	55.2	54.0	53.8	55.9	58.9	61.7	62.7	63.6	64.3	65.3	65.1					
C	Monthly Calibration								S	Daily Zero-Span Check								Q	Quality Assurance										
K	Collection Error								N	No Data (Machine Not in Service)								Y	Routine Maintenance								P	Power Failure	
X	InValid Data (Equipment Malfunction /Recovery)								NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																													

Timeseries Chart of Hourly Average for RH - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

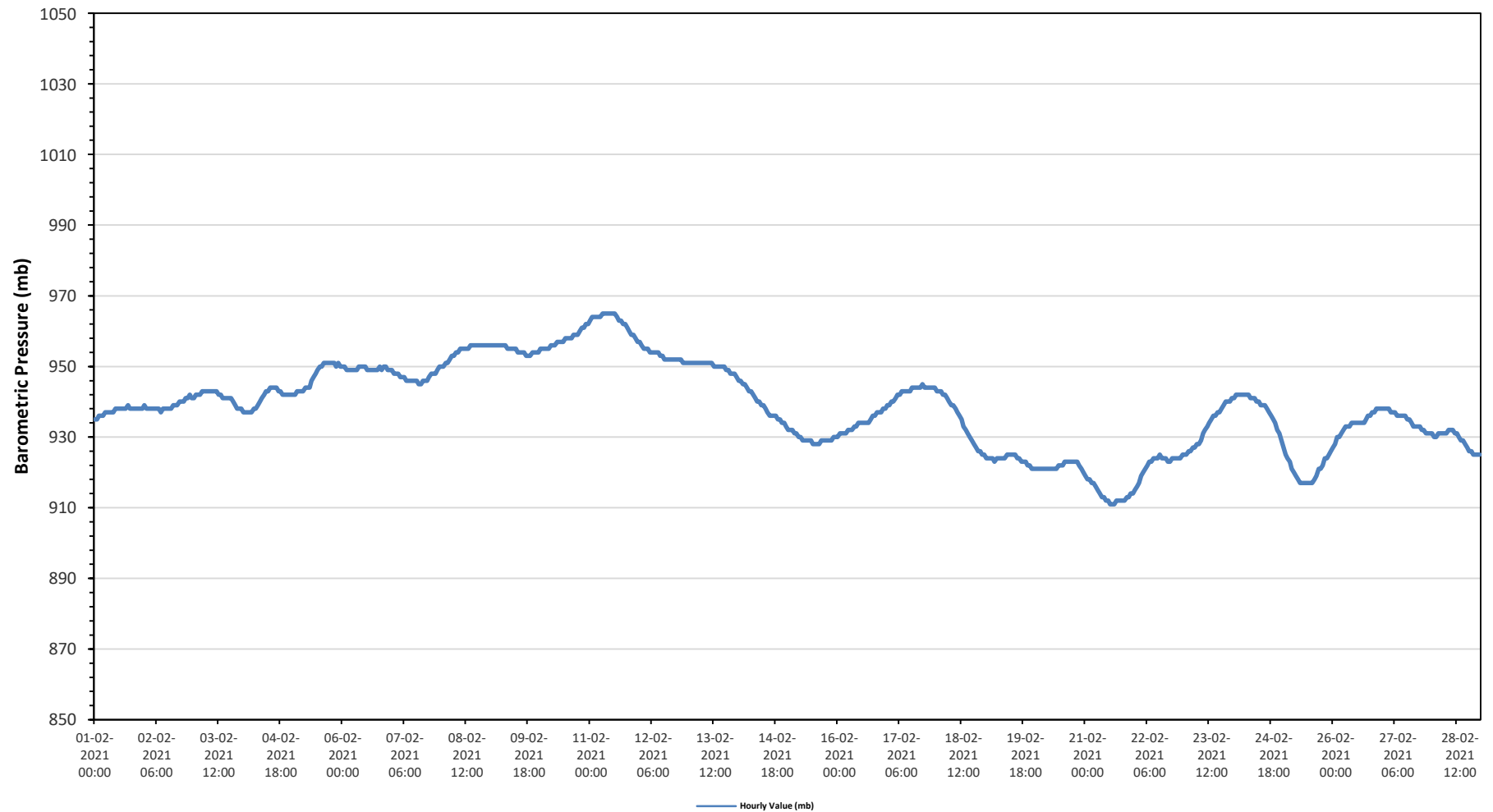
Reno Station - February 2021

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:					965	mb	on February 11 at hour 6										Hours in Service:					672					
Maximum Daily Value:					963	mb	on February 11										Hours of Data:					672					
Minimum Hourly Value:					911	mb	on February 21 at hour 12										Hours of Missing Data:					0					
Minimum Daily Value:					914	mb	on February 21										Hours of Calibration:					0					
Monthly Average:					939	mb											Operational Uptime:					100.0					
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	935	935	936	936	936	937	937	937	937	937	938	938	938	938	938	938	939	938	938	938	938	938	938	938	935	939	937.3
Feb 2	939	938	938	938	938	938	938	938	938	937	938	938	938	938	939	939	939	940	940	940	941	941	942	941	937	942	938.9
Feb 3	941	942	942	942	943	943	943	943	943	943	943	943	942	942	941	941	941	941	941	940	939	938	938	938	938	943	941.4
Feb 4	937	937	937	937	937	938	938	939	940	941	942	943	943	944	944	944	944	943	943	942	942	942	942	942	937	944	940.9
Feb 5	942	942	943	943	943	943	944	944	944	946	947	948	949	950	950	951	951	951	951	951	951	950	951	950	942	951	947.3
Feb 6	950	950	949	949	949	949	949	949	950	950	950	950	949	949	949	949	949	949	950	949	950	949	949	949	949	950	949.4
Feb 7	949	948	948	948	948	947	947	947	946	946	946	946	946	945	945	946	946	946	946	947	948	948	948	949	949	950	947.0
Feb 8	950	950	951	951	952	953	953	954	954	955	955	955	955	955	956	956	956	956	956	956	956	956	956	956	950	956	954.3
Feb 9	956	956	956	956	956	956	956	956	956	955	955	955	955	955	954	954	954	953	953	953	954	954	954	954	953	956	954.8
Feb 10	955	955	955	955	955	956	956	956	956	957	957	957	958	958	958	958	959	959	959	960	961	961	962	962	955	962	957.8
Feb 11	963	964	964	964	964	964	965	965	965	965	965	965	965	964	963	963	962	962	961	960	959	959	958	957	957	965	962.8
Feb 12	957	956	955	955	955	954	954	954	954	954	953	953	952	952	952	952	952	952	952	952	951	951	951	951	951	957	953.1
Feb 13	951	951	951	951	951	951	951	951	951	951	951	951	950	950	950	950	950	949	949	948	948	948	947	947	951	950.0	
Feb 14	946	946	945	945	944	943	943	942	941	940	940	939	939	938	937	936	936	936	936	935	935	934	934	933	933	946	939.3
Feb 15	932	932	932	931	931	930	930	929	929	929	929	929	928	928	928	928	929	929	929	929	929	929	930	930	928	932	929.5
Feb 16	930	931	931	931	931	932	932	932	933	933	934	934	934	934	934	934	935	936	936	937	937	937	938	938	930	938	933.9
Feb 17	939	939	940	940	941	942	942	943	943	943	943	943	944	944	944	944	944	945	944	944	944	944	944	944	939	945	942.8
Feb 18	943	943	943	942	942	941	940	939	939	938	937	936	935	933	932	931	930	929	928	927	926	926	925	925	925	943	934.6
Feb 19	924	924	924	924	923	924	924	924	924	924	925	925	925	925	925	924	924	923	923	923	922	922	921	921	921	925	923.6
Feb 20	921	921	921	921	921	921	921	921	921	921	921	922	922	922	923	923	923	923	923	923	922	922	921	920	920	923	921.7
Feb 21	919	918	918	917	917	916	915	914	913	913	912	912	911	911	911	912	912	912	912	912	913	913	914	914	911	919	913.8
Feb 22	915	916	917	919	920	921	922	923	923	924	924	924	925	924	924	924	923	923	923	924	924	924	924	925	915	925	922.3
Feb 23	925	925	926	926	927	927	928	928	929	931	932	933	934	935	936	936	937	937	938	939	940	940	940	941	925	941	932.9
Feb 24	941	942	942	942	942	942	942	942	941	941	941	940	940	939	939	939	938	937	936	935	934	932	931	929	929	942	938.6
Feb 25	927	925	924	923	921	920	919	918	917	917	917	917	917	917	918	919	921	921	922	924	924	925	926	917	927	920.7	
Feb 26	927	928	930	930	931	932	933	933	933	934	934	934	934	934	934	934	935	936	936	937	937	938	938	938	927	938	933.8
Feb 27	938	938	938	938	937	937	937	936	936	936	936	936	935	935	934	933	933	933	933	932	932	931	931	931	931	938	934.8
Feb 28	931	930	930	931	931	931	931	931	932	932	932	931	931	930	929	929	928	927	926	926	925	925	925	925	925	932	929.1
Diurnal Maximum	963	964	964	964	964	964	965	965	965	965	965	965	965	964	963	963	962	962	961	960	961	961	962	962			
Diurnal Average	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	939	938	939	938			
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance												
K	Collection Error						N	No Data (Machine Not in Service)						Y	Routine Maintenance						P	Power Failure					
X	InValid Data (Equipment Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

Timeseries Chart of Hourly Average for BP - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

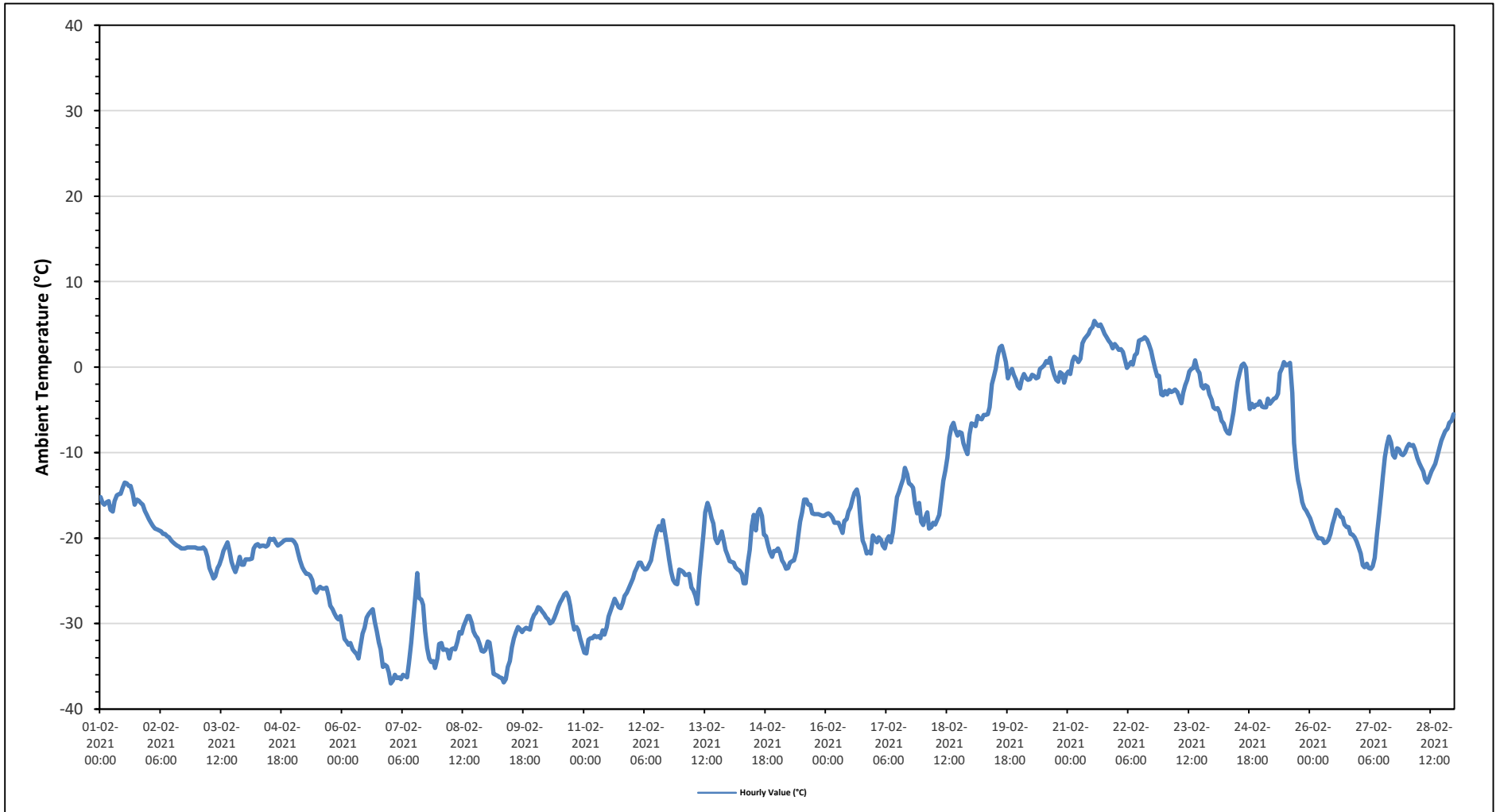
Reno Station - February 2021

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:		5.4	°C	on February 21 at hour 13												Hours in Service:		672										
Maximum Daily Value:		2.9	°C	on February 21												Hours of Data:		672										
Minimum Hourly Value:		-37.0	°C	on February 7 at hour 0												Hours of Missing Data:		0										
Minimum Daily Value:		-33.1	°C	on February 7												Hours of Calibration:		0										
Monthly Average:		-17.2	°C													Operational Uptime:		100.0										
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Feb 1	-15.2	-15.9	-16.1	-15.8	-15.7	-16.7	-16.9	-15.7	-15	-14.9	-14.8	-14.1	-13.5	-13.6	-13.9	-13.9	-14.9	-16.1	-15.5	-15.6	-15.9	-16.1	-16.8	-17.3	-17.3	-13.5	-15.4	
Feb 2	-17.8	-18.2	-18.6	-18.9	-19	-19.1	-19.2	-19.5	-19.5	-19.8	-19.9	-20.3	-20.5	-20.7	-20.9	-21	-21.2	-21.2	-21.2	-21.1	-21.1	-21.1	-21.1	-21.1	-21.2	-17.8	-20.1	
Feb 3	-21.2	-21.2	-21.2	-21.1	-21.4	-22.2	-23.5	-24.1	-24.7	-24.5	-23.5	-23.1	-22.3	-21.5	-21	-20.5	-21.5	-22.8	-23.5	-24	-23.2	-22.2	-23.1	-23.1	-24.7	-20.5	-22.5	
Feb 4	-22.5	-22.5	-22.5	-22.4	-21.2	-20.8	-20.7	-21	-20.9	-20.9	-21	-20.8	-20.1	-20.2	-20.1	-20.6	-20.9	-20.7	-20.5	-20.3	-20.2	-20.2	-20.2	-20.2	-22.5	-20.1	-20.9	
Feb 5	-20.4	-20.8	-21.8	-22.6	-23.4	-23.8	-24.2	-24.2	-24.4	-24.9	-26.1	-26.4	-25.9	-25.7	-25.9	-25.9	-25.8	-26.8	-27.9	-28.3	-28.8	-29.3	-29.5	-29.1	-29.5	-20.4	-25.5	
Feb 6	-30.5	-31.8	-32.1	-32.5	-32.3	-33	-33.3	-33.6	-34.1	-32.6	-31.2	-30.5	-29.3	-28.9	-28.6	-28.3	-29.8	-30.9	-32.2	-33	-35.1	-34.8	-35	-35.7	-35.7	-28.3	-32.0	
Feb 7	-37	-36.7	-36	-36.4	-36.3	-36.5	-36	-36.1	-36.3	-34.7	-32.3	-29.6	-27.3	-24.1	-27	-27.2	-27.8	-30.9	-32.9	-34.1	-34.5	-34.4	-35.2	-34.1	-37.0	-24.1	-33.1	
Feb 8	-32.4	-32.3	-33.1	-33	-33.1	-34.1	-33	-32.9	-33	-32.1	-31	-31.2	-30.3	-29.8	-29.1	-29.1	-29.9	-30.9	-31.4	-31.7	-32.4	-33.2	-33.3	-33.1	-34.1	-29.1	-31.9	
Feb 9	-32.1	-32.2	-34	-35.9	-36	-36.1	-36.3	-36.4	-36.9	-36.5	-35.1	-34.4	-32.8	-31.7	-31	-30.4	-30.6	-31	-30.7	-30.5	-30.6	-30.7	-29.6	-29	-36.9	-29.0	-32.9	
Feb 10	-28.7	-28.1	-28.2	-28.6	-28.9	-29.3	-29.5	-30	-29.8	-29.4	-28.7	-28.1	-27.5	-27.1	-26.6	-26.4	-26.9	-27.9	-29.7	-30.7	-30.4	-30.8	-31.8	-32.6	-32.6	-26.4	-29.0	
Feb 11	-33.4	-33.5	-31.9	-31.7	-31.7	-31.4	-31.6	-31.5	-31.7	-30.8	-31.3	-30.4	-29.2	-28.5	-27.8	-27.1	-27.6	-28.1	-28.2	-27.6	-26.8	-26.4	-25.9	-25.3	-33.5	-25.3	-29.6	
Feb 12	-24.7	-24	-23.4	-22.9	-22.9	-23.4	-23.7	-23.6	-23.1	-22.6	-21.3	-20.2	-19.1	-18.6	-19.1	-17.9	-19.4	-20.8	-22.5	-23.9	-24.9	-25.3	-25.4	-23.7	-25.4	-17.9	-22.4	
Feb 13	-23.8	-24	-24.3	-24.3	-24.2	-25.8	-26.1	-26.7	-27.7	-24.5	-22	-19.5	-17	-15.9	-16.5	-17.7	-18.3	-20.1	-20.6	-20.1	-19.2	-20.2	-21.4	-22	-27.7	-15.9	-21.7	
Feb 14	-22.7	-22.8	-22.9	-23.4	-23.7	-23.8	-24.2	-25.3	-25.3	-23	-21.4	-18.6	-17.3	-19.1	-17	-16.6	-17.4	-19.6	-19.8	-20.8	-21.6	-22.2	-21.5	-21.5	-25.3	-16.6	-21.3	
Feb 15	-21.2	-21.7	-22.6	-23	-23.6	-23.5	-22.9	-22.7	-22.6	-21.6	-19.9	-18.1	-17	-15.5	-15.5	-16.1	-16.1	-17.1	-17.2	-17.2	-17.2	-17.3	-17.4	-17.4	-23.6	-15.5	-19.4	
Feb 16	-17.2	-17.1	-17.3	-17.6	-18.2	-18.2	-18.2	-18.7	-19.4	-18	-17.8	-16.9	-16.4	-15.4	-14.7	-14.3	-15.2	-18.1	-20.3	-20.9	-21.8	-21.6	-21.8	-19.7	-21.8	-14.3	-18.1	
Feb 17	-20	-20.5	-19.9	-20.2	-20.9	-21.2	-20.2	-19.8	-20.5	-19.3	-17.2	-15.2	-14.6	-13.8	-13.1	-11.8	-12.5	-13.6	-13.8	-14.1	-16	-17.1	-15.9	-18.1	-21.2	-11.8	-17.1	
Feb 18	-18.5	-17.7	-17	-18.9	-18.7	-18.2	-18.4	-17.8	-17.3	-15.1	-13.3	-12.1	-10.6	-8.2	-7	-6.5	-7.3	-8	-7.6	-7.7	-8.9	-9.6	-10.2	-7.9	-18.9	-6.5	-12.6	
Feb 19	-6.6	-6.7	-6.9	-5.7	-6	-6.1	-5.6	-5.6	-5.5	-4.7	-2	-1.2	-0.2	1.3	2.3	2.5	1.6	0.6	-1.3	-0.6	-0.2	-0.9	-1.5	-2.2	-6.9	2.5	-2.6	
Feb 20	-2.5	-1.4	-0.8	-1.3	-1.5	-1.4	-0.9	-1	-1.3	-1.2	-0.2	0	0.2	0.7	0.5	1.1	-0.1	-0.9	-1.5	-1.7	-0.6	-0.8	-1.8	-0.8	-2.5	1.1	-0.8	
Feb 21	-0.5	-0.8	0.7	1.2	1	0.6	1	2.8	3.3	3.6	3.9	4.4	4.7	5.4	5	4.8	5	4.5	3.9	3.5	3.1	2.8	2.2	2.7	-0.8	5.4	2.9	
Feb 22	2.4	2	2.1	1.8	1	-0.1	0.2	0.6	0.3	1.4	1.6	3.1	3.2	3.3	3.5	3.2	2.7	1.9	0.9	-0.1	-1.1	-1	-3.2	-3.3	-3.3	3.5	1.1	
Feb 23	-2.8	-3.2	-2.7	-2.9	-2.8	-2.6	-2.9	-3.5	-4.2	-3	-2.1	-1.5	-0.5	-0.2	-0.1	0.8	-0.3	-0.7	-2.2	-2.5	-2.1	-2.3	-3.2	-3.8	-4.2	0.8	-2.1	
Feb 24	-4.7	-4.9	-4.8	-5.3	-6.3	-6.6	-7.3	-7.7	-7.8	-6.4	-5.2	-3.1	-1.7	-0.7	0.2	0.4	-0.1	-2.8	-4.9	-4.3	-4.7	-4.4	-4.4	-4	-7.8	0.4	-4.2	
Feb 25	-4.6	-4.7	-4.7	-3.7	-4.3	-4	-3.7	-3.6	-3.1	-0.7	-0.1	0.6	0.2	0.3	0.5	-3	-8.9	-11.8	-13.3	-14.4	-15.8	-16.5	-16.8	-17.3	-17.3	0.6	-6.4	
Feb 26	-17.7	-18.5	-19.1	-19.7	-20	-20	-20.1	-20.6	-20.5	-20.2	-19.5	-18.4	-17.6	-16.7	-16.9	-17.5	-17.6	-18.4	-18.7	-18.7	-19.5	-19.6	-19.9	-20.4	-20.6	-16.7	-19.0	
Feb 27	-21.1	-21.8	-23.2	-23.4	-23	-23.5	-23.6	-23.3	-22.3	-19.5	-17.6	-15	-12.8	-10.5	-9.1	-8.1	-8.8	-10.3	-10.6	-9.5	-9.6	-10.2	-10.3	-10	-23.6	-8.1	-15.7	
Feb 28	-9.4	-9	-9.2	-9.1	-9.6	-10.6	-11.2	-11.7	-12.2	-13.1	-13.5	-12.9	-12.2	-11.8	-11.3	-10.4	-9.5	-8.6	-8	-7.5	-7.2	-6.5	-6.3	-5.5	-13.5	-5.5	-9.8	
Diurnal Maximum	2.4	2.0	2.1	1.8	1.0	0.6	1.0	2.8	3.3	3.6	3.9	4.4	4.7	5.4	5.0	4.8	5.0	4.5	3.9	3.5	3.1	2.8	2.2	2.7				
Diurnal Average	-18.1	-18.2	-18.3	-18.5	-18.7	-19.0	-19.0	-19.0	-19.1	-18.2	-17.2	-16.2	-15.3	-14.5	-14.3	-14.2	-15.0	-16.1	-16.8	-17.1	-17.4	-17.6	-17.9	-17.7				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance											
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure			
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

Timeseries Chart of Hourly Average for AT - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

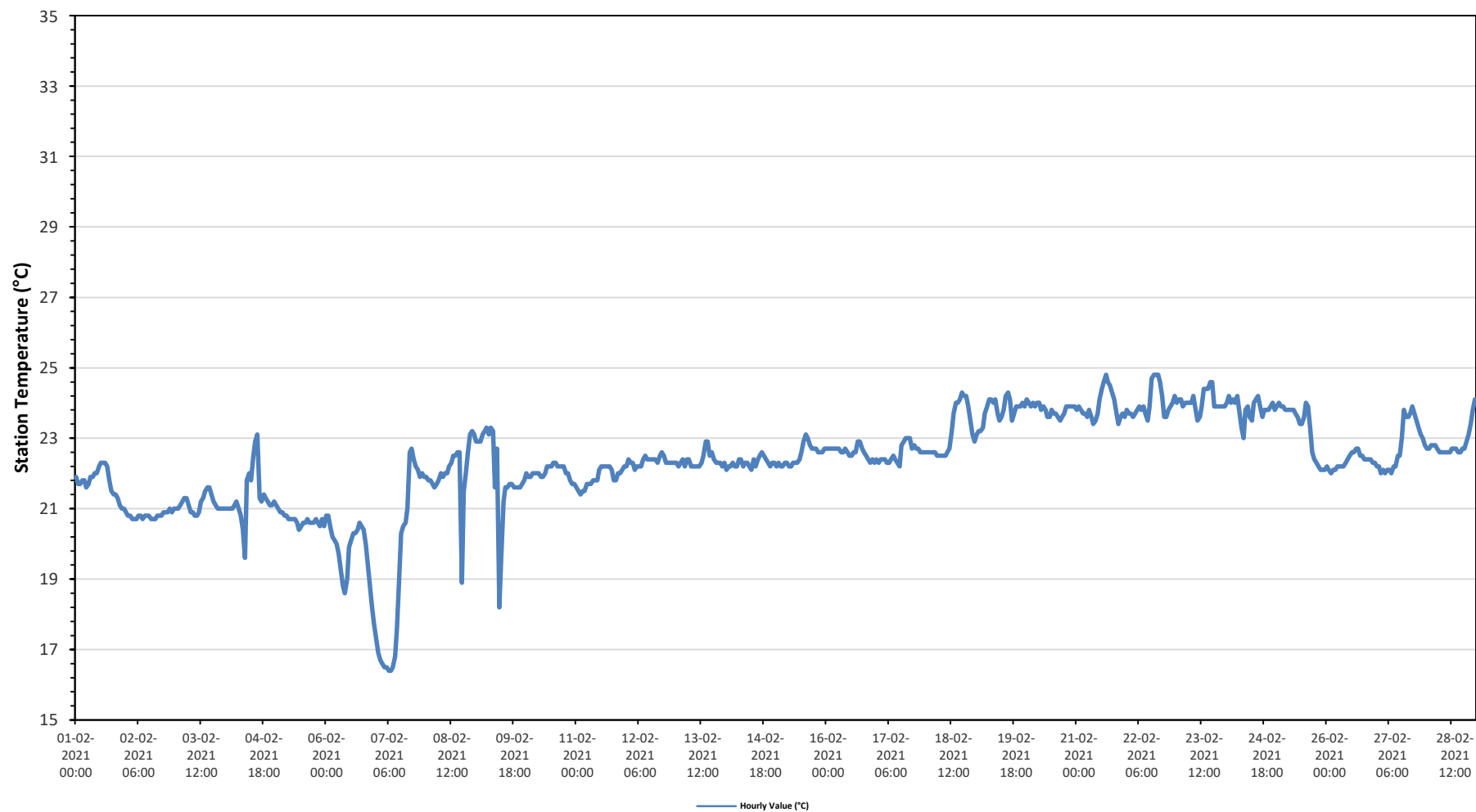
Reno Station - February 2021

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:		24.8	°C	on February 21 at hour 14												Hours in Service:		672										
Maximum Daily Value:		24.0	°C	on February 23												Hours of Data:		672										
Minimum Hourly Value:		16.4	°C	on February 7 at hour 6												Hours of Missing Data:		0										
Minimum Daily Value:		19.3	°C	on February 7												Hours of Calibration:		0										
Monthly Average:		22.3	°C													Operational Uptime:		100.0										
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Feb 1	21.9	21.7	21.7	21.8	21.8	21.6	21.7	21.9	21.9	22.0	22.0	22.2	22.3	22.3	22.3	22.2	21.8	21.5	21.4	21.4	21.3	21.1	21.0	21.0	21.0	21.0	21.0	21.7
Feb 2	20.9	20.8	20.8	20.7	20.7	20.7	20.8	20.8	20.7	20.8	20.8	20.8	20.7	20.7	20.7	20.8	20.8	20.8	20.9	20.9	20.9	21.0	20.9	21.0	20.9	21.0	20.8	
Feb 3	21.0	21.0	21.1	21.2	21.3	21.3	21.1	20.9	20.9	20.8	20.8	20.9	21.2	21.3	21.5	21.6	21.6	21.4	21.2	21.1	21.0	21.0	21.0	21.0	21.0	21.0	21.1	
Feb 4	21.0	21.0	21.0	21.0	21.1	21.2	21.0	20.8	20.4	19.6	21.8	22.0	21.8	22.5	22.9	23.1	21.3	21.2	21.4	21.3	21.2	21.1	21.1	21.1	21.2	21.2	21.3	
Feb 5	21.1	21.0	20.9	20.9	20.8	20.8	20.7	20.7	20.7	20.7	20.6	20.4	20.5	20.6	20.6	20.7	20.6	20.6	20.6	20.7	20.6	20.5	20.7	20.5	20.5	20.4	20.7	
Feb 6	20.8	20.8	20.5	20.2	20.1	20.0	19.7	19.3	18.8	18.6	19.0	19.9	20.1	20.3	20.3	20.4	20.6	20.5	20.4	20.0	19.4	18.8	18.2	17.7	17.7	17.7	19.8	
Feb 7	17.3	16.9	16.7	16.6	16.5	16.5	16.4	16.4	16.5	16.8	17.6	19.1	20.3	20.5	20.6	21.0	22.6	22.7	22.4	22.2	22.1	21.9	22.0	21.9	16.4	22.7	19.3	
Feb 8	21.9	21.8	21.8	21.7	21.6	21.7	21.8	22.0	21.9	22.0	22.0	22.2	22.3	22.5	22.5	22.6	22.6	18.9	21.5	22.0	22.6	23.1	23.2	23.1	18.9	23.2	22.1	
Feb 9	22.9	22.9	22.9	23.1	23.2	23.3	23.1	23.3	23.2	21.6	22.7	18.2	19.6	21.2	21.6	21.6	21.7	21.7	21.6	21.6	21.6	21.7	21.8	21.8	21.8	21.8	22.0	
Feb 10	22.0	21.9	21.9	22.0	22.0	22.0	22.0	21.9	21.9	22.0	22.2	22.2	22.3	22.3	22.2	22.2	22.2	22.2	22.2	22.0	21.8	21.7	21.7	21.7	21.7	21.7	22.0	
Feb 11	21.6	21.5	21.4	21.5	21.5	21.7	21.7	21.7	21.8	21.8	21.8	22.1	22.2	22.2	22.2	22.2	22.2	22.1	21.8	21.8	22.0	22.0	22.1	22.2	21.4	22.2	21.9	
Feb 12	22.2	22.4	22.3	22.3	22.1	22.2	22.2	22.2	22.2	22.4	22.5	22.4	22.4	22.4	22.4	22.3	22.5	22.6	22.5	22.3	22.3	22.3	22.3	22.3	22.1	22.6	22.3	
Feb 13	22.3	22.2	22.3	22.4	22.2	22.4	22.4	22.2	22.2	22.2	22.2	22.2	22.3	22.5	22.9	22.9	22.5	22.6	22.4	22.3	22.3	22.3	22.2	22.3	22.2	22.9	22.4	
Feb 14	22.1	22.2	22.2	22.3	22.2	22.2	22.4	22.4	22.2	22.3	22.3	22.2	22.1	22.4	22.2	22.4	22.5	22.6	22.5	22.4	22.3	22.2	22.3	22.3	22.1	22.6	22.3	
Feb 15	22.2	22.3	22.2	22.2	22.3	22.3	22.2	22.2	22.3	22.3	22.3	22.4	22.6	22.9	23.1	23.0	22.8	22.7	22.7	22.7	22.6	22.6	22.6	22.7	22.2	23.1	22.5	
Feb 16	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.6	22.6	22.7	22.6	22.5	22.5	22.6	22.6	22.9	22.9	22.7	22.6	22.5	22.4	22.3	22.4	22.3	22.3	22.9	22.6	
Feb 17	22.4	22.3	22.4	22.4	22.4	22.3	22.3	22.4	22.5	22.4	22.3	22.2	22.8	22.9	23.0	23.0	23.0	22.7	22.8	22.7	22.7	22.6	22.6	22.6	22.2	23.0	22.6	
Feb 18	22.6	22.6	22.6	22.6	22.6	22.5	22.5	22.5	22.5	22.5	22.6	22.7	23.2	23.7	24.0	24.0	24.1	24.3	24.2	24.2	23.9	23.5	23.1	22.9	22.5	24.3	23.2	
Feb 19	23.1	23.2	23.2	23.3	23.7	23.9	24.1	24.1	24.0	24.1	23.7	23.5	23.6	23.8	24.2	24.3	24.1	23.5	23.7	23.9	23.9	23.9	24.0	23.9	23.1	24.3	23.8	
Feb 20	24.1	24.0	23.9	24.0	23.9	24.0	24.0	23.8	23.9	23.8	23.6	23.6	23.8	23.7	23.7	23.6	23.5	23.6	23.7	23.9	23.9	23.9	23.9	23.9	23.5	24.1	23.8	
Feb 21	23.8	23.9	23.8	23.7	23.7	23.6	23.8	23.6	23.4	23.5	23.7	24.1	24.4	24.6	24.8	24.6	24.5	24.3	24.1	23.7	23.4	23.6	23.7	23.6	23.4	24.8	23.9	
Feb 22	23.8	23.7	23.7	23.6	23.7	23.8	23.9	23.8	23.9	23.7	23.5	23.9	24.7	24.8	24.8	24.8	24.6	24.2	23.6	23.6	23.8	23.9	24.0	24.2	23.5	24.8	24.0	
Feb 23	24.0	24.1	24.1	23.9	24.0	24.0	24.0	24.0	24.2	23.8	23.5	23.6	23.9	24.4	24.4	24.4	24.6	24.6	23.9	23.9	23.9	23.9	23.9	23.9	23.5	24.6	24.0	
Feb 24	24.0	24.2	24.0	24.1	24.0	24.2	23.8	23.3	23.0	23.8	23.9	23.6	23.5	24.0	24.1	24.2	23.9	23.6	23.8	23.8	23.8	23.9	24.0	23.8	23.0	24.2	23.8	
Feb 25	23.9	24.0	23.9	23.9	23.8	23.8	23.8	23.8	23.8	23.7	23.6	23.4	23.4	23.6	24.0	23.9	23.3	22.6	22.4	22.3	22.2	22.1	22.1	22.1	22.1	24.0	23.3	
Feb 26	22.2	22.1	22.0	22.1	22.1	22.2	22.2	22.2	22.2	22.3	22.4	22.5	22.6	22.6	22.7	22.7	22.5	22.5	22.4	22.4	22.4	22.4	22.3	22.3	22.0	22.7	22.3	
Feb 27	22.2	22.2	22.0	22.1	22.0	22.1	22.1	22.0	22.2	22.2	22.5	22.5	23.0	23.8	23.6	23.6	23.7	23.9	23.7	23.5	23.3	23.1	23.0	22.8	22.0	23.9	22.8	
Feb 28	22.7	22.7	22.8	22.8	22.8	22.7	22.6	22.6	22.6	22.6	22.6	22.6	22.7	22.7	22.7	22.6	22.6	22.7	22.7	22.9	23.1	23.4	23.8	24.1	22.6	24.1	22.8	
Diurnal Maximum	24.1	24.2	24.1	24.1	24.0	24.2	24.1	24.1	24.2	24.1	23.9	24.1	24.7	24.8	24.8	24.8	24.6	24.6	24.2	24.2	23.9	23.9	24.0	24.2				
Diurnal Average	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.1	22.1	22.0	22.2	22.1	22.4	22.6	22.7	22.8	22.7	22.5	22.5	22.4	22.4	22.4	22.4	22.3				
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance													
K	Collection Error						N	No Data (Machine Not in Service)						Y	Routine Maintenance						P	Power Failure						
X	InValid Data (Equipment Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																				
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

Timeseries Chart of Hourly Average for ST - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

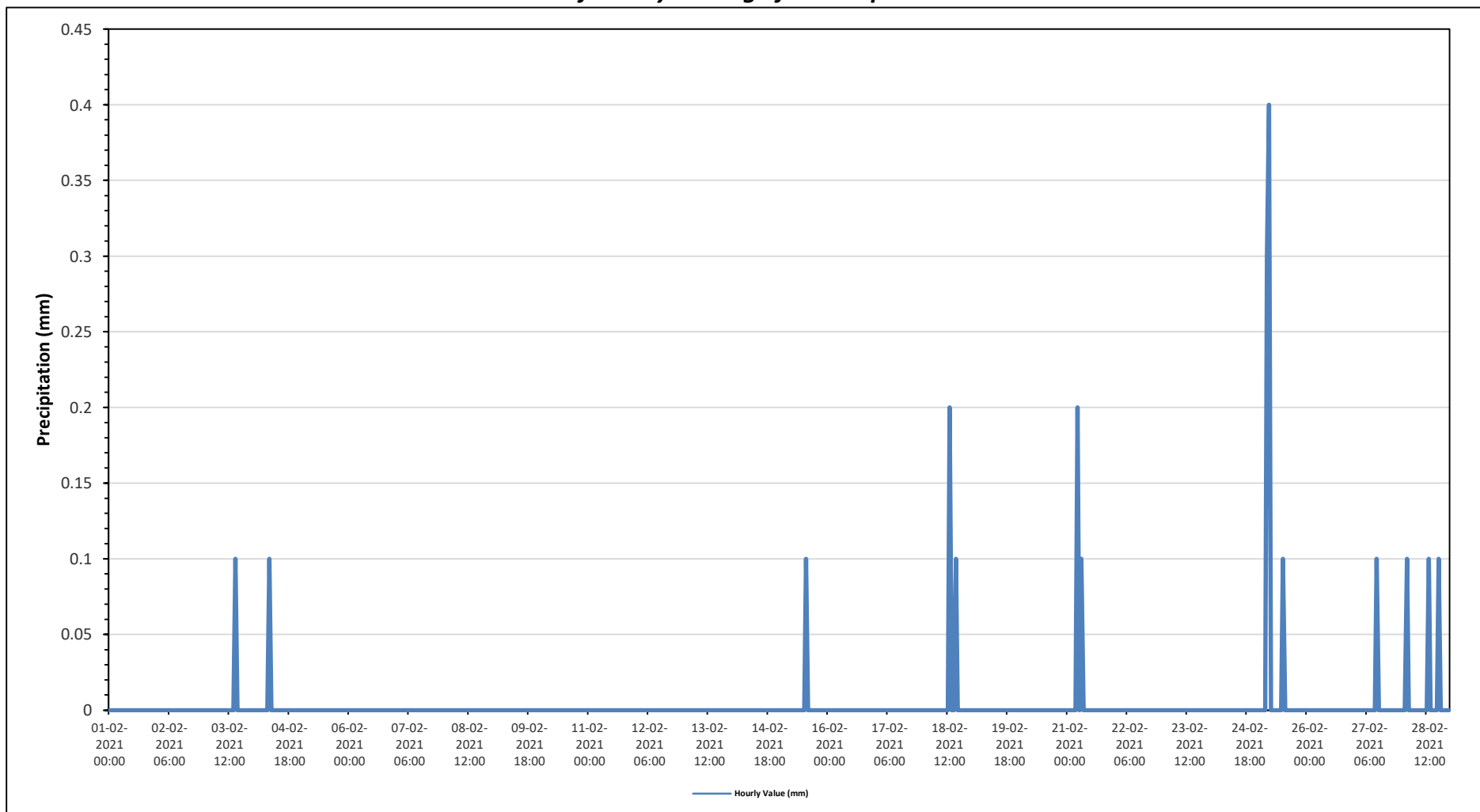
Reno Station - February 2021

Summary of Hourly Averages

PRECIPITATION in mm

Maximum Hourly Value:		0.4	mm	on February 25 at hour 5												Hours in Service:		672									
Maximum Daily Value:		0.8	mm	on February 25												Hours of Data:		672									
Minimum Hourly Value:		0.0	mm	on February 1 at hour 0												Hours of Missing Data:		0									
Minimum Daily Value:		0.0	mm	on February 1												Hours of Calibration:		0									
Monthly Total:		2.1	mm													Operational Uptime:		100.0									
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Total
Feb 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Feb 4	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Feb 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Feb 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.1	0	0	0	0	0	0	0	0.0	0.2	0.3
Feb 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 21	0	0	0	0	0	0.2	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	0.3
Feb 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 25	0	0	0	0	0.3	0.4	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4	0.8
Feb 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 27	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Feb 28	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0.1	0	0	0	0	0	0.0	0.1	0.3
Diurnal Maximum	0.0	0.0	0.1	0.0	0.3	0.4	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.2	0.0	0.1	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance										
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure		
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

Timeseries Chart of Hourly Average for Precipitation - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

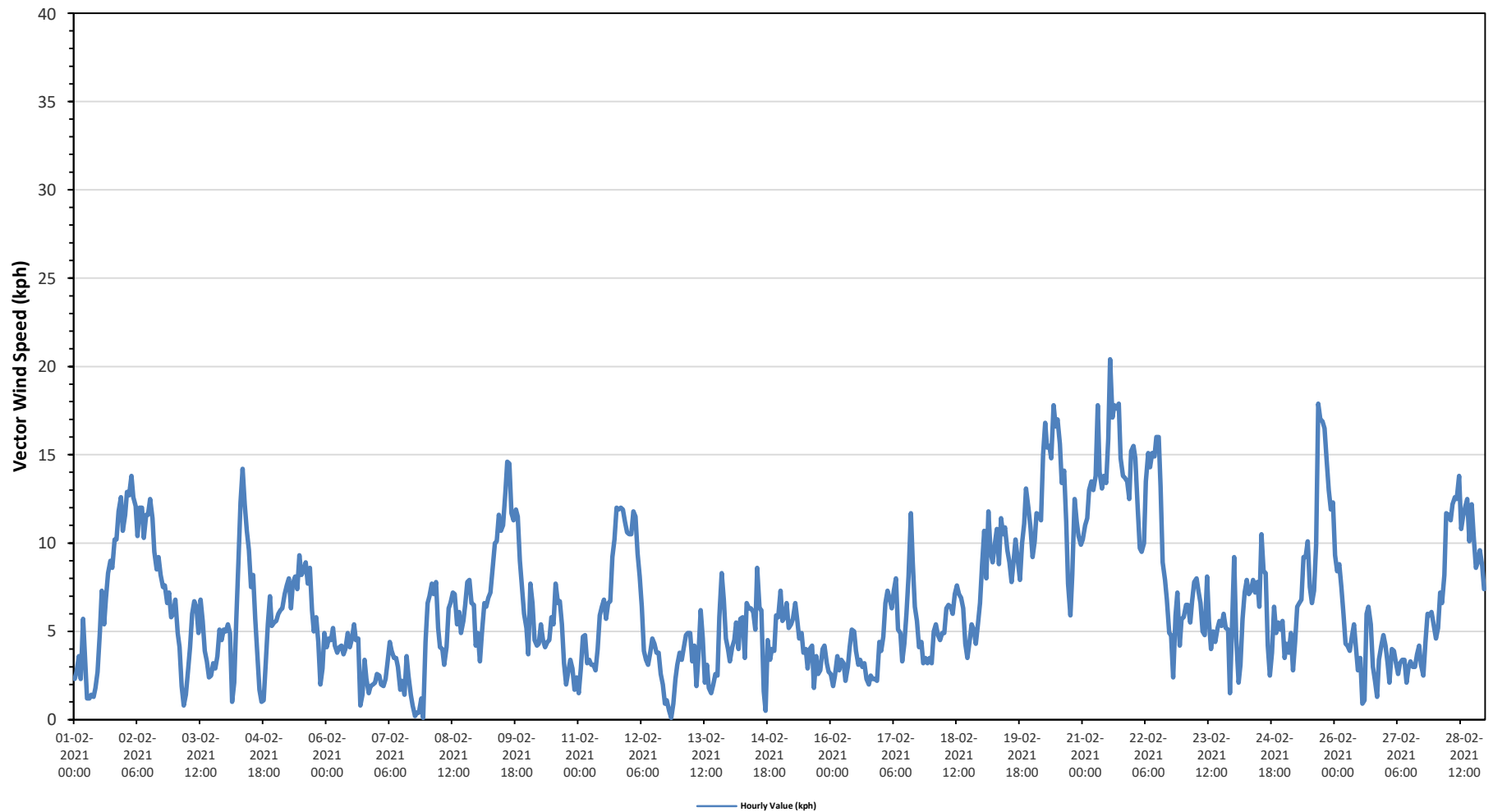
Reno Station - February 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

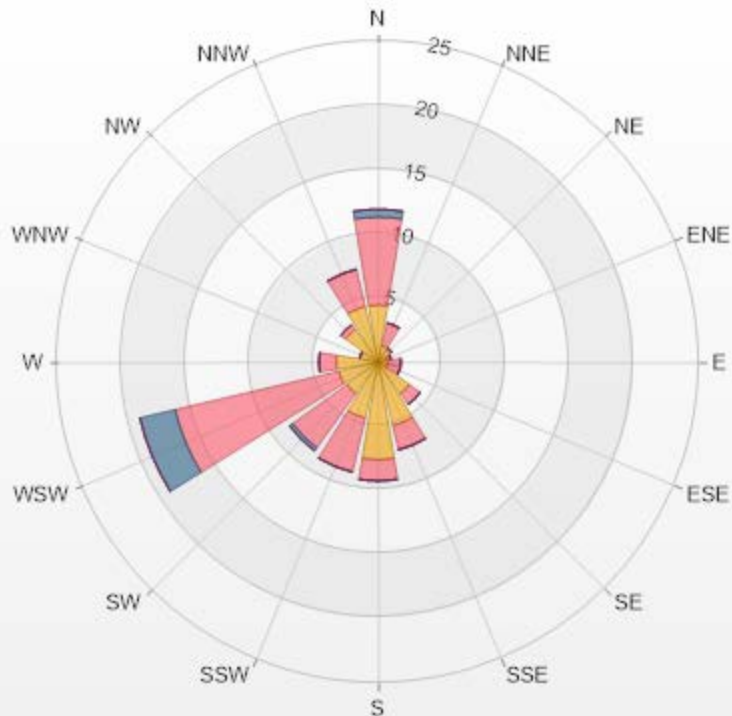
Maximum Hourly Value:										20.4 kph on February 21 at hour 13										Hours in Service:										672				
Maximum Daily Value:										14.3 kph on February 21										Hours of Data:										672				
Minimum Hourly Value:										0.1 kph on February 7 at hour 22										Hours of Missing Data:										0				
Minimum Daily Value:										1.1 kph on February 7										Hours of Calibration:										0				
Monthly Average:										2.5 kph										Operational Uptime:										100.0				
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average							
Feb 1	2.3	2.7	3.6	2.3	5.7	3.6	1.2	1.2	1.4	1.3	1.8	2.7	5.0	7.3	5.4	6.9	8.3	9.0	8.6	10.2	10.2	11.8	12.6	10.7	1.2	12.6	5.1							
Feb 2	11.6	12.9	12.7	13.8	12.6	12.1	10.4	12.0	12.0	10.3	11.6	11.6	12.5	11.4	9.5	8.5	9.2	8.2	7.5	7.6	6.6	7.2	5.8	6.0	5.8	13.8	9.9							
Feb 3	6.8	4.9	4.1	1.9	0.8	1.4	2.9	4.1	6.0	6.7	6.4	4.9	6.8	5.6	3.9	3.3	2.4	2.5	3.2	2.9	3.6	5.1	4.5	5.1	0.8	6.8	2.5							
Feb 4	5.0	5.4	4.9	1.0	2.1	5.7	8.9	12.3	14.2	12.2	10.7	9.6	7.5	8.2	5.7	3.7	1.7	1.0	1.1	3.2	5.4	7.0	5.3	5.5	1.0	14.2	4.1							
Feb 5	5.6	6.0	6.2	6.3	7.1	7.6	8.0	6.3	7.7	8.1	7.4	9.3	8.2	8.4	8.9	7.7	8.6	6.2	5.0	5.8	4.4	2.0	2.9	4.9	2.0	9.3	6.1							
Feb 6	4.1	4.6	4.5	5.2	4.2	3.8	4.1	4.2	3.7	4.0	4.9	4.1	4.6	5.4	4.5	4.6	0.8	1.4	3.4	2.3	1.5	1.9	2.0	2.1	0.8	5.4	2.6							
Feb 7	2.6	2.5	2.0	1.9	2.3	3.2	4.4	3.9	3.5	3.5	3.0	1.7	2.2	1.4	3.6	2.5	1.4	0.8	0.2	0.4	0.4	1.2	0.1	4.4	0.1	4.4	1.1							
Feb 8	6.6	7.0	7.7	7.1	7.8	5.2	4.1	4.0	3.1	4.1	6.3	6.6	7.2	7.1	5.4	6.1	4.9	5.6	6.5	7.8	7.9	6.6	6.5	4.2	3.1	7.9	4.3							
Feb 9	4.9	3.3	5.0	6.6	6.4	6.9	7.2	8.5	10.0	10.1	11.6	10.7	11.0	12.9	14.6	14.5	11.7	11.3	11.9	11.5	9.0	7.5	6.0	5.2	3.3	14.6	8.9							
Feb 10	3.7	7.7	6.6	4.5	4.2	4.3	5.4	4.5	4.1	4.4	4.5	5.8	5.4	7.7	6.6	6.7	5.4	3.2	2.0	2.7	3.4	2.9	1.7	2.4	1.7	7.7	4.2							
Feb 11	1.5	2.9	4.7	4.8	3.2	3.4	3.1	3.1	2.8	4.0	5.9	6.4	6.8	5.7	6.6	6.7	9.2	10.2	12.0	11.9	12.0	11.9	11.2	10.6	1.5	12.0	6.0							
Feb 12	10.5	10.5	11.8	11.5	9.4	8.1	6.4	3.9	3.4	3.1	3.8	4.6	4.3	3.8	3.8	2.6	2.0	0.9	1.1	0.5	0.1	0.9	2.3	3.1	0.1	11.8	3.7							
Feb 13	3.8	3.4	4.1	4.8	4.9	4.9	3.3	4.2	1.9	3.5	6.2	4.6	2.1	3.1	1.8	1.5	2.0	2.6	2.5	5.8	8.3	6.8	4.6	4.0	1.5	8.3	3.6							
Feb 14	3.3	4.1	4.5	5.5	4.0	5.7	5.8	3.5	6.6	6.3	6.3	6.1	5.1	8.6	6.3	6.2	1.6	0.5	4.5	3.4	4.0	3.9	5.9	5.8	0.5	8.6	4.0							
Feb 15	7.3	5.6	5.8	6.6	5.2	5.4	5.7	6.6	5.7	4.6	4.9	3.8	4.0	2.9	4.0	4.2	1.8	3.6	2.6	2.8	4.0	4.2	3.2	2.7	1.8	7.3	1.8							
Feb 16	2.6	1.9	2.5	3.6	2.8	3.4	3.2	2.2	3.0	4.1	5.1	5.0	3.9	3.1	3.4	3.0	3.2	2.3	2.0	2.5	2.3	2.2	4.4	1.9	5.1	1.7								
Feb 17	3.9	4.7	6.6	7.3	6.8	6.3	7.3	8.0	5.1	4.9	3.3	4.3	6.0	8.1	11.7	8.9	6.4	5.6	4.1	4.4	3.2	3.5	3.2	3.5	3.2	11.7	5.5							
Feb 18	3.2	5.0	5.4	4.8	4.5	4.9	4.9	6.3	6.5	6.4	6.0	7.1	7.6	7.1	6.9	6.3	4.3	3.5	4.4	5.4	5.1	4.3	5.4	6.6	3.2	7.6	5.4							
Feb 19	8.8	10.7	8.0	11.8	9.5	8.9	9.9	10.8	8.8	11.4	10.5	10.9	9.6	8.9	7.8	9.0	10.2	9.0	7.9	10.0	11.1	13.1	12.0	10.9	7.8	13.1	9.9							
Feb 20	9.2	10.1	11.7	11.6	11.3	15.0	16.8	15.4	15.5	14.8	17.8	16.6	17.0	15.6	13.4	14.1	11.2	7.7	5.9	8.2	12.5	11.2	10.4	9.9	5.9	17.8	12.4							
Feb 21	10.2	11.0	11.4	13.0	13.5	13.0	13.8	17.8	14.0	13.1	13.8	13.4	15.9	20.4	17.1	17.8	17.6	17.9	14.8	13.8	13.7	13.5	12.5	15.2	10.2	20.4	14.3							
Feb 22	15.5	14.8	12.0	9.7	9.5	10.0	13.5	15.1	14.3	15.1	14.9	16.0	16.0	13.2	8.9	7.9	6.8	4.9	4.8	2.4	5.9	7.2	4.2	5.7	2.4	16.0	10.1							
Feb 23	5.8	6.5	6.5	5.5	6.7	7.8	8.0	7.3	6.6	5.0	4.8	8.1	5.6	4.0	5.0	4.4	5.2	5.6	5.3	6.0	5.2	5.1	1.5	5.3	1.5	8.1	4.7							
Feb 24	9.2	4.6	2.1	3.1	5.7	7.2	7.9	7.1	7.3	7.9	7.2	7.8	6.4	10.5	8.4	8.3	4.2	2.5	3.8	6.4	4.9	5.5	5.1	5.6	2.1	10.5	4.7							
Feb 25	3.5	4.3	3.8	4.9	2.8	4.4	6.4	6.6	6.8	9.2	9.2	10.1	7.5	6.6	7.3	9.9	17.9	17.0	16.9	16.5	14.7	13.0	11.9	12.3	2.8	17.9	3.5							
Feb 26	9.3	8.4	8.8	7.5	6.0	4.3	4.2	3.9	4.7	5.4	4.0	2.8	3.5	0.9	1.1	6.0	6.4	5.4	3.0	2.2	1.3	3.4	4.2	4.8	0.9	9.3	3.8							
Feb 27	4.2	3.2	2.1	4.0	3.9	3.2	2.6	3.2	3.4	3.4	2.1	3.0	3.3	3.0	3.0	3.7	4.2	3.1	2.5	4.4	6.0	5.9	6.1	5.3	2.1	6.1	3.4							
Feb 28	4.6	5.2	7.2	6.6	8.2	11.7	11.6	11.3	12.2	12.6	12.5	13.8	10.8	11.5	12.1	12.5	10.1	12.2	10.5	8.6	8.9	9.6	8.7	7.4	4.6	13.8	8.8							
Diurnal Maximum	16	15	13	14	14	15	17	18	16	15	18	17	17	20	17	18	18	18	17	17	15	14	13	15										
Diurnal Average	6.1	6.2	6.3	6.3	6.1	6.5	6.8	7.0	6.9	7.1	7.4	7.6	7.4	7.6	7.0	7.1	6.4	5.8	5.6	6.1	6.3	6.4	5.8	6.2										
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																	
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance																	
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																		
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																		

Timeseries Chart of Hourly Average for VWS - Reno Station



Wind: PRAMP RENO Monitor: WDS [KPH] Monthly: 02-2021 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 5.36% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	4.46	6.85	0.6	0	0	11.91
NNE	1.34	1.79	0	0	0	3.13
NE	1.19	0.15	0	0	0	1.34
ENE	0.74	0.3	0	0	0	1.04
E	0.74	1.04	0	0	0	1.78
ESE	0.74	1.04	0	0	0	1.78
SE	2.98	1.04	0	0	0	4.02
SSE	5.06	1.93	0	0	0	6.99
S	7.59	1.64	0	0	0	9.23
SSW	4.46	4.32	0	0	0	8.78
SW	2.98	5.21	0.3	0	0	8.49
WSW	3.13	13.1	2.83	0	0	19.06
W	3.27	1.34	0	0	0	4.61
WNW	1.49	0	0	0	0	1.49
NW	3.13	0.45	0	0	0	3.58
NNW	4.46	2.98	0	0	0	7.44
Summary	47.76	43.18	3.73	0	0	94.67



PRAMP-202102

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% Icon Classes (KPH)

48 1.8-6.0

43 6.0-15.0

4 15.0-29.0

0 29.0-39.0

0 >39.0



PEACE RIVER AREA MONITORING PROGRAM

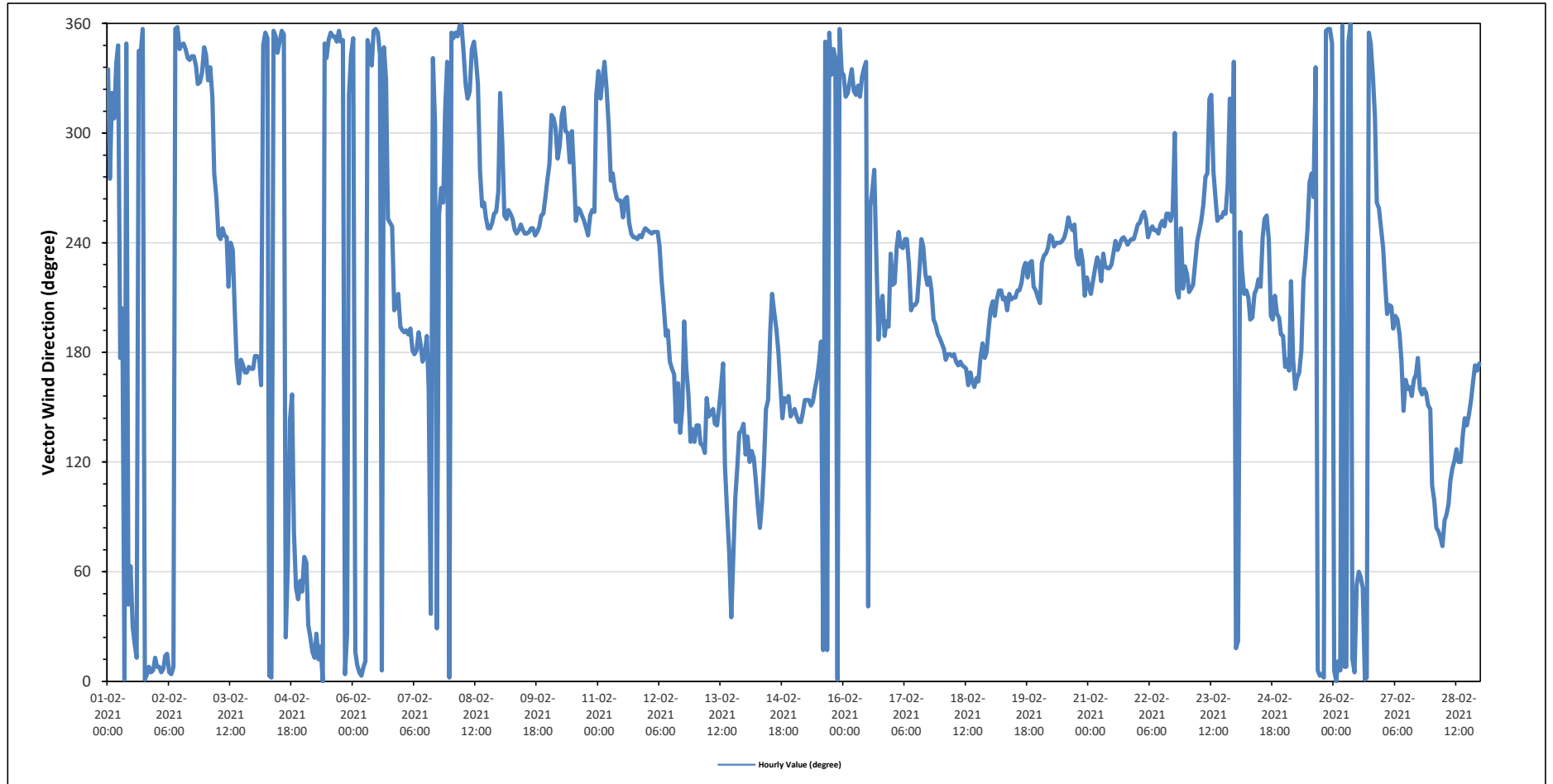
Reno Station - February 2021

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:															247 (WSW) degree										Hours in Service:										672									
																									Hours of Data:										672									
																									Hours of Missing Data:										0									
																									Hours of Calibration:										0									
																									Operational Uptime:										100.0									
Day	Hourly Period Starting at (MST)																							Daily Average																				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant																		
Feb 1	NNW	W	NW	NW	NNW	NNW	S	SSW	N	NNW	NE	ENE	NNE	NNE	NNE	NNW	NNW	N	N	N	N	N	NNE	1	N																			
Feb 2	N	N	N	N	NNE	NNE	N	N	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	355	N																		
Feb 3	NNW	NNW	NNW	NW	W	W	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SSW	S	SSE	S	S	SSE	SSE	S	S	S	226	SW																		
Feb 4	S	S	S	SSE	NNW	N	N	N	N	N	NNW	N	N	N	NNE	ENE	SE	SSE	E	NE	NE	NE	NE	10	N																			
Feb 5	ENE	ENE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNW	NNW	N	N	N	N	N	N	N	N	NNE	NW	NNW	5	N																			
Feb 6	N	NNE	N	N	N	N	NNE	N	NNW	NNW	N	N	N	NNW	N	NNW	NNW	WSW	WSW	WSW	SSW	SSW	SSW	SSW	348	NNW																		
Feb 7	S	S	S	S	S	S	S	S	S	S	S	S	S	SSE	NE	NNW	WNW	NNE	WSW	W	NW	NNW	N	189	S																			
Feb 8	N	N	N	N	N	N	NNW	NW	NW	NW	NNW	N	NNW	NW	W	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	W	310	NW																		
Feb 9	NW	WNW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	252	WSW																		
Feb 10	W	NW	NW	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	WNW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	NW	282	W																		
Feb 11	NNW	NW	NNW	NNW	NW	WNW	W	W	W	W	W	W	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	259	WSW																		
Feb 12	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SSW	S	S	S	S	SSE	SE	SSE	SE	SSE	SSW	S	SSE	SE	SE	SE	220	SW																		
Feb 13	SE	SE	SE	SE	SE	SSE	SE	SE	SSE	SE	SE	SSE	SSE	S	ESE	E	ENE	NE	ENE	E	ESE	SE	SE	SE	131	SE																		
Feb 14	ESE	SE	ESE	SE	ESE	ESE	E	E	E	ESE	SSE	SSE	S	SSW	SSW	S	SSE	SE	SSE	SSE	SSE	SE	SE	SE	145	SE																		
Feb 15	SSE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	NNE	N	NNE	N	NNW	NNW	NNW	N	N	NNW	139	SE																		
Feb 16	NNW	NW	NW	NNW	NNW	NW	NW	NW	NW	NNW	NNW	NNW	NE	WSW	W	W	SW	S	SSW	SSW	S	SSW	SSW	SW	297	WNW																		
Feb 17	SW	SW	SW	WSW	SW	SW	WSW	WSW	SW	SSW	SSW	SSW	SSW	SW	WSW	SW	SW	SW	SW	SSW	SSW	SSW	S	S	225	SW																		
Feb 18	S	S	S	S	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	175	S																		
Feb 19	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	214	SSW																		
Feb 20	SSW	SW	SW	SW	SW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	SW	238	SW																		
Feb 21	SW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	234	SW																		
Feb 22	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WNW	SSW	SSW	WSW	SSW	SW	249	WSW																		
Feb 23	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	W	W	NW	NW	W	W	WSW	WSW	WSW	WSW	WSW	W	NW	WSW	NNW	260	WSW																			
Feb 24	NNE	NNE	WSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	SSW	SSW	SSW	SSW	SSW	S	S	219	SW																		
Feb 25	S	S	SSE	SW	S	SSE	SSE	SSE	S	SW	SW	WSW	W	W	W	NNW	N	N	N	N	N	N	NNW	NNW	328	NNW																		
Feb 26	N	N	NNE	N	N	N	N	N	N	NNE	N	NE	ENE	ENE	NE	N	N	NNW	NNW	NW	W	WSW	WSW	359	N																			
Feb 27	SW	SW	SSW	SSW	SSW	S	SSW	SSW	S	S	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	SSE	SSE	SSE	SSE	175	S																		
Feb 28	ESE	E	E	E	ENE	ENE	E	E	E	ESE	ESE	ESE	SE	ESE	ESE	SE	SE	SE	SE	SSE	SSE	S	SSE	S	121	ESE																		
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																											
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure																			
X	Invalid Data (Machine Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																												

Timeseries Chart of Hourly Average for VWD - Reno Station





PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																												
Maximum Hourly Value:		20.4 kph on February 21 at hour 13													Hours in Service:		672											
Maximum Daily Value:		14.3 kph on February 21													Hours of Data:		672											
Minimum Hourly Value:		0.1 kph on February 7 at hour 22													Hours of Missing Data:		0											
Minimum Daily Value:		1.1 kph on February 7													Hours of Calibration:		0											
Monthly Average:		2.5 kph													Operational Uptime:		100											
WIND DIRECTION																												
Monthly Average:		247 (WSW) degree																										
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
Feb 1	2.3 NNW	2.7 W	3.6 NW	2.3 NW	5.7 NNW	3.6 NNW	1.2 S	1.2 SSW	1.4 N	1.3 NNW	1.8 NE	2.7 ENE	5.0 NNE	7.3 NNE	5.4 NNE	6.9 NNW	8.3 NNW	9.0 N	8.6 N	10.2 N	10.2 N	11.8 N	12.6 N	10.7 NNE	1.2	12.6	5.1	
Feb 2	11.6 N	12.9 N	12.7 N	13.8 NNE	12.6 NNE	12.1 NNE	10.4 N	12.0 N	10.3 N	11.6 N	11.6 NNW	12.5 NNW	11.4 NNW	9.5 NNW	8.5 NNW	9.2 NNW	8.2 NNW	7.5 NNW	7.6 NNW	6.6 NNW	7.2 NNW	5.8 NNW	6.0 NNW	5.8	13.8	9.9		
Feb 3	6.8 NNW	4.9 NNW	4.1 NNW	1.9 NW	0.8 W	1.4 WSW	2.9 WSW	4.1 WSW	6.0 WSW	6.7 WSW	6.4 WSW	4.9 WSW	6.8 SW	5.6 WSW	3.9 SSW	3.3 S	2.4 SSE	2.5 S	3.2 S	2.9 SSE	3.6 SSE	5.1 S	4.5 S	5.1 S	0.8	6.8	2.5	
Feb 4	5.0 S	5.4 S	4.9 S	1.0 SSE	2.1 NNW	5.7 N	8.9 N	12.3 N	14.2 N	12.2 N	10.7 N	9.6 NNW	7.5 N	8.2 N	5.7 NNE	3.7 ENE	1.7 SE	1.0 SSE	1.1 SSE	3.2 E	5.4 NE	7.0 NE	5.3 NE	5.5 NE	1.0	14.2	4.1	
Feb 5	5.6 ENE	6.0 ENE	6.2 NNE	6.3 NNE	7.1 NNE	7.6 NNE	8.0 NNE	6.3 NNE	7.7 NNE	8.1 NNE	7.4 NNW	9.3 NNW	8.2 N	8.4 N	8.9 N	7.7 N	8.6 N	6.2 N	5.0 N	5.8 N	4.4 NNE	2.0 NNE	2.9 NNW	4.9 NNW	2.0	9.3	6.1	
Feb 6	4.1 N	4.6 NNE	4.5 N	5.2 N	4.2 N	3.8 N	4.1 NNE	4.2 N	3.7 NNW	4.0 NNW	4.9 N	4.1 N	4.6 NNW	5.4 NNW	4.5 NNW	4.6 NNW	0.8 WSW	1.4 WSW	3.4 WSW	2.3 WSW	1.5 SSW	1.9 SSW	2.0 SSW	2.1 SSW	0.8	5.4	2.6	
Feb 7	2.6 S	2.5 S	2.0 S	1.9 S	2.3 S	3.2 S	4.4 S	3.9 S	3.5 S	3.5 S	3.0 S	1.7 S	2.2 SSE	1.4 NE	3.6 NNW	2.5 WNW	1.4 NNE	0.8 WSW	0.2 W	0.4 W	0.4 W	1.2 NW	0.1 NNW	4.4 N	0.1	4.4	1.1	
Feb 8	6.6 N	7.0 N	7.7 N	7.1 N	7.8 N	5.2 N	4.1 NNW	4.0 NW	3.1 NW	4.1 NW	6.3 NNW	6.6 NNW	7.2 NNW	7.1 NW	5.4 WSW	6.1 WSW	4.9 WSW	5.6 WSW	6.5 WSW	7.8 WSW	7.9 WSW	6.6 WSW	6.5 WSW	4.2 W	3.1	7.9	4.3	
Feb 9	4.9 NW	3.3 WNW	5.0 WSW	6.6 WSW	6.4 WSW	6.9 WSW	7.2 WSW	8.5 WSW	10.0 WSW	10.1 WSW	11.6 WSW	10.7 WSW	11.0 WSW	12.9 WSW	14.6 WSW	14.5 WSW	11.7 WSW	11.3 WSW	11.9 WSW	11.5 WSW	9.0 WSW	7.5 WSW	6.0 WSW	5.2 W	3.3	14.6	8.9	
Feb 10	3.7 W	7.7 NW	6.6 NW	4.5 WNW	4.2 WNW	4.3 WNW	5.4 NW	4.5 NW	4.1 WNW	4.4 WNW	4.5 WNW	5.8 WNW	5.4 WSW	7.7 WSW	6.6 WSW	6.7 WSW	5.4 WSW	3.2 WSW	2.0 WSW	2.7 WSW	3.4 WSW	2.9 WSW	1.7 WSW	2.4 NW	1.7	7.7	4.2	
Feb 11	1.5 NNW	2.9 NW	4.7 NNW	4.8 NNW	3.2 NW	3.4 WNW	3.1 W	3.1 W	2.8 W	4.0 W	5.9 W	6.4 W	6.8 WSW	5.7 W	6.6 WSW	6.7 WSW	9.2 WSW	10.2 WSW	12.0 WSW	11.9 WSW	12.0 WSW	11.9 WSW	11.2 WSW	10.6 WSW	1.5	12.0	6.0	
Feb 12	10.5 WSW	10.5 WSW	11.8 WSW	11.5 WSW	9.4 WSW	8.1 WSW	6.4 SW	3.9 SW	3.4 SSW	3.1 S	3.8 S	4.6 S	4.3 SSE	3.8 S	3.8 SSE	2.6 SSE	2.0 SSE	0.9 SSE	1.1 SSE	0.5 SSE	0.1 SSE	0.9 SSE	2.3 SSE	3.1 SSE	0.1	11.8	3.7	
Feb 13	3.8 SE	3.4 SE	4.1 SE	4.8 SE	4.9 SE	4.9 SSE	3.3 SSE	4.2 SSE	1.9 SSE	3.5 SSE	6.2 SSE	4.6 SSE	2.1 SSE	3.1 SSE	1.8 SSE	1.5 ENE	2.0 ENE	2.6 ENE	2.5 ENE	5.8 ENE	8.3 ENE	6.8 ENE	4.6 ENE	4.0 SE	1.5	8.3	3.6	
Feb 14	3.3 ESE	4.1 ESE	4.5 ESE	5.5 ESE	4.0 ESE	5.7 ESE	5.8 E	5.3 E	6.6 E	6.3 E	6.3 E	6.1 E	5.1 SSE	8.6 SSW	6.3 SSW	6.2 SSW	1.6 SSW	0.5 SSW	4.5 SSW	3.4 SSW	4.0 SSW	3.9 SSW	5.9 SSW	5.8 SE	0.5	8.6	4.0	
Feb 15	7.3 SSE	5.6 SE	5.8 SE	6.6 SE	5.2 SE	5.4 SSE	5.7 SSE	6.6 SSE	5.7 SSE	4.6 SSE	4.9 SSE	3.8 SSE	4.0 S	2.9 S	4.0 NNE	4.2 N	1.8 NNE	3.6 NNE	2.6 NNE	2.8 NNE	4.0 NNW	4.2 NNW	3.2 NNW	2.7 NNW	1.8	7.3	1.8	
Feb 16	2.6 NNW	1.9 NW	2.5 NW	3.6 NNW	2.8 NNW	3.4 NW	3.2 NW	2.2 NW	3.0 NW	4.1 NNW	5.1 NNW	5.0 NNW	3.9 NNW	3.1 NE	3.4 WSW	3.0 W	3.2 WSW	2.3 SSW	2.0 SSW	2.5 SSW	2.3 SSW	2.3 SSW	2.2 SSW	4.4 SW	1.9	5.1	1.7	
Feb 17	3.9 SW	4.7 SW	6.6 WSW	7.3 WSW	6.8 SW	6.3 WSW	7.3 WSW	8.0 WSW	5.1 SW	4.9 SSW	3.3 SSW	4.3 SSW	6.0 SSW	8.1 SW	11.7 WSW	7.9 SW	8.9 SW	6.4 SW	5.6 SW	4.1 SW	4.4 SSW	3.2 SSW	3.5 SSW	3.5 SSW	3.2	11.7	5.5	
Feb 18	3.2 S	5.0 S	5.4 S	4.8 S	4.5 S	4.9 S	4.9 S	6.3 S	6.5 S	6.4 S	6.0 S	7.1 S	7.6 SSE	7.1 SSE	6.9 SSE	6.3 SSE	4.3 SSE	3.5 SSE	4.4 SSE	5.4 SSE	5.1 SSE	4.3 SSE	6.6 SSE	3.2	7.6	5.4		
Feb 19	8.8 SSW	10.7 SSW	8.0 SSW	11.8 SSW	9.5 SSW	8.9 SSW	9.9 SSW	10.8 SSW	8.8 SSW	11.4 SSW	11.0 SSW	10.5 SSW	10.9 SSW	9.6 SSW	8.9 SSW	7.8 SSW	9.0 SSW	10.2 SSW	9.0 SSW	7.9 SSW	10.0 SSW	11.1 SSW	13.1 SSW	12.0 SSW	10.9	7.8	13.1	9.9
Feb 20	9.2 SSW	10.1 SW	11.7 SW	11.6 SW	11.3 SW	15.0 WSW	16.8 WSW	15.4 WSW	15.5 WSW	14.8 WSW	17.8 WSW	16.6 WSW	17.0 WSW	15.6 WSW	13.4 WSW	14.1 WSW	11.2 WSW	7.7 WSW	5.9 WSW	8.2 WSW	12.5 WSW	11.2 WSW	10.4 WSW	9.9 WSW	5.9	17.8	12.4	



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2021

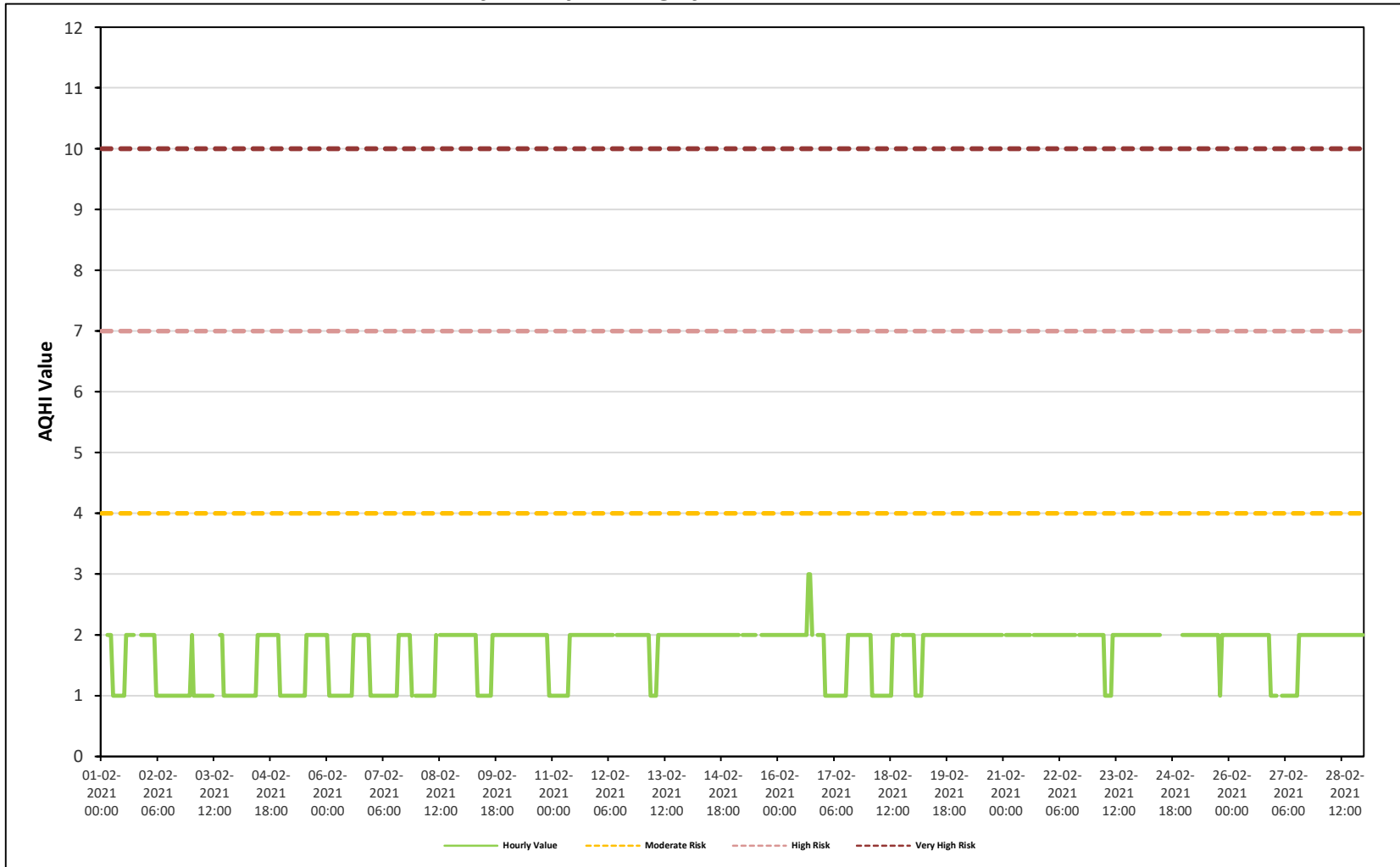
Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																																			
Maximum Hourly Value:		20.4 kph on February 21 at hour 13													Hours in Service:		672																		
Maximum Daily Value:		14.3 kph on February 21													Hours of Data:		672																		
Minimum Hourly Value:		0.1 kph on February 7 at hour 22													Hours of Missing Data:		0																		
Minimum Daily Value:		1.1 kph on February 7													Hours of Calibration:		0																		
Monthly Average:		2.5 kph													Operational Uptime:		100																		
WIND DIRECTION																																			
Monthly Average:		247 (WSW) degree																																	
Day	0	1	2	3	4	5	6	7	8	9	Hourly Period Starting at (MST)													Daily Minimum	Daily Maximum	Daily Average									
Feb 21	10.2	11.0	11.4	13.0	13.5	13.0	13.8	17.8	14.0	13.1	13.8	13.4	15.9	20.4	17.1	17.8	17.6	17.9	14.8	13.8	13.7	13.5	12.5	15.2	10.2	20.4	14.3								
Feb 22	SW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	2.4	16.0	10.1								
	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW								
Feb 23	5.8	6.5	6.5	5.5	6.7	7.8	8.0	7.3	6.6	5.0	4.8	8.1	5.6	4.0	5.0	4.4	5.2	5.6	5.3	6.0	5.2	5.1	1.5	5.3	1.5	8.1	4.7								
	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	W	W	NW	NW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	W	NW	WSW	NNW	WSW	NNW	NNW								
Feb 24	9.2	4.6	2.1	3.1	5.7	7.2	7.9	7.1	7.3	7.9	7.2	7.8	6.4	10.5	8.4	8.3	4.2	2.5	3.8	6.4	4.9	5.5	5.1	5.6	2.1	10.5	4.7								
	NNE	NNE	WSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	2.8	17.9	3.5								
Feb 25	3.5	4.3	3.8	4.9	2.8	4.4	6.4	6.6	6.8	9.2	9.2	10.1	7.5	6.6	7.3	9.9	17.9	17.0	16.9	16.5	14.7	13.0	11.9	12.3	2.8	17.9	3.5								
	S	S	SSE	SW	S	SSE	SSE	SSE	S	SW	SW	WSW	W	W	NNW	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW								
Feb 26	9.3	8.4	8.8	7.5	6.0	4.3	4.2	3.9	4.7	5.4	4.0	2.8	3.5	0.9	1.1	6.0	6.4	5.4	3.0	2.2	1.3	3.4	4.2	4.8	0.9	9.3	3.8								
	N	N	NNE	N	N	N	N	N	N	NNE	N	NE	ENE	ENE	NE	N	N	N	NNW	NNW	NNW	NW	W	WSW	WSW	2.1	6.1	3.4							
Feb 27	4.2	3.2	2.1	4.0	3.9	3.2	2.6	3.2	3.4	3.4	2.1	3.0	3.3	3.0	3.0	3.7	4.2	3.1	2.5	4.4	6.0	5.9	6.1	5.3	2.1	6.1	3.4								
	SW	SW	SSW	SSW	SSW	S	SSW	SSW	S	S	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE								
Feb 28	4.6	5.2	7.2	6.6	8.2	11.7	11.6	11.3	12.2	12.6	12.5	13.8	10.8	11.5	12.1	12.5	10.1	12.2	10.5	8.6	8.9	9.6	8.7	7.4	4.6	13.8	8.8								
	ESE	E	E	E	ENE	ENE	E	E	E	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SSE	SSE	S	SSE	S	2.1	6.1	3.4								
C	Monthly Calibration								S	Daily Zero-Span Check								Q	Quality Assurance																
K	Collection Error								N	No Data (Machine Not in Service)								Y	Routine Maintenance								P	Power Failure							
X	Invalid Data (Equipment Malfunction /Recovery)								NR	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																			
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																			

AQHI CADOTTE LAKE STATION

Timeseries Chart of Hourly Average for AQHI - AQHI - Cadotte Lake Station





PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

SULPHUR DIOXIDE (SO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 172 ppb, 24-Hour 48 ppb, 30-Day 11 ppb

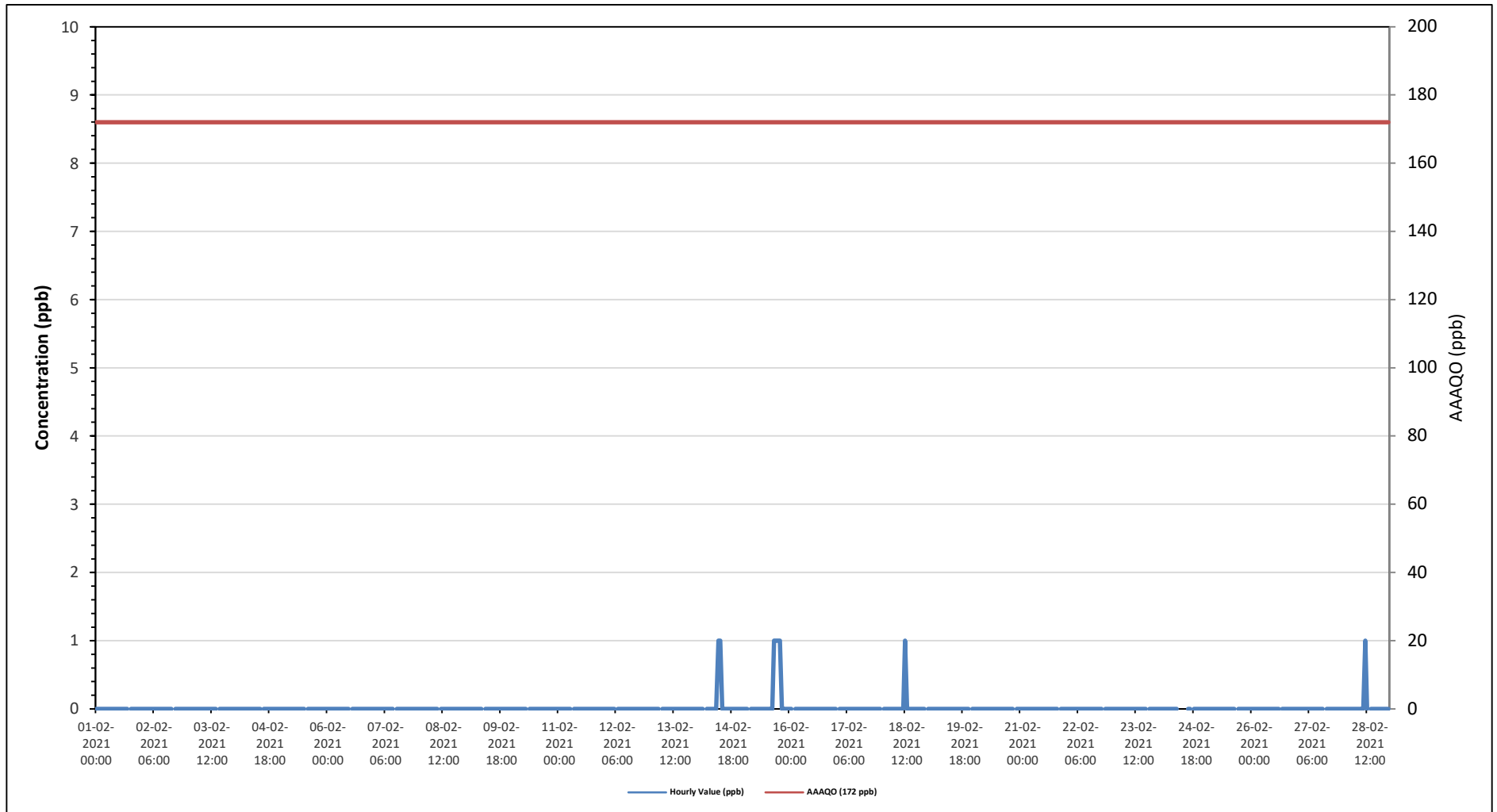
Number of 1-Hour Exceedances: 0 Number of 24-Hour Exceedances: 0 30-Day Exceedance: 0

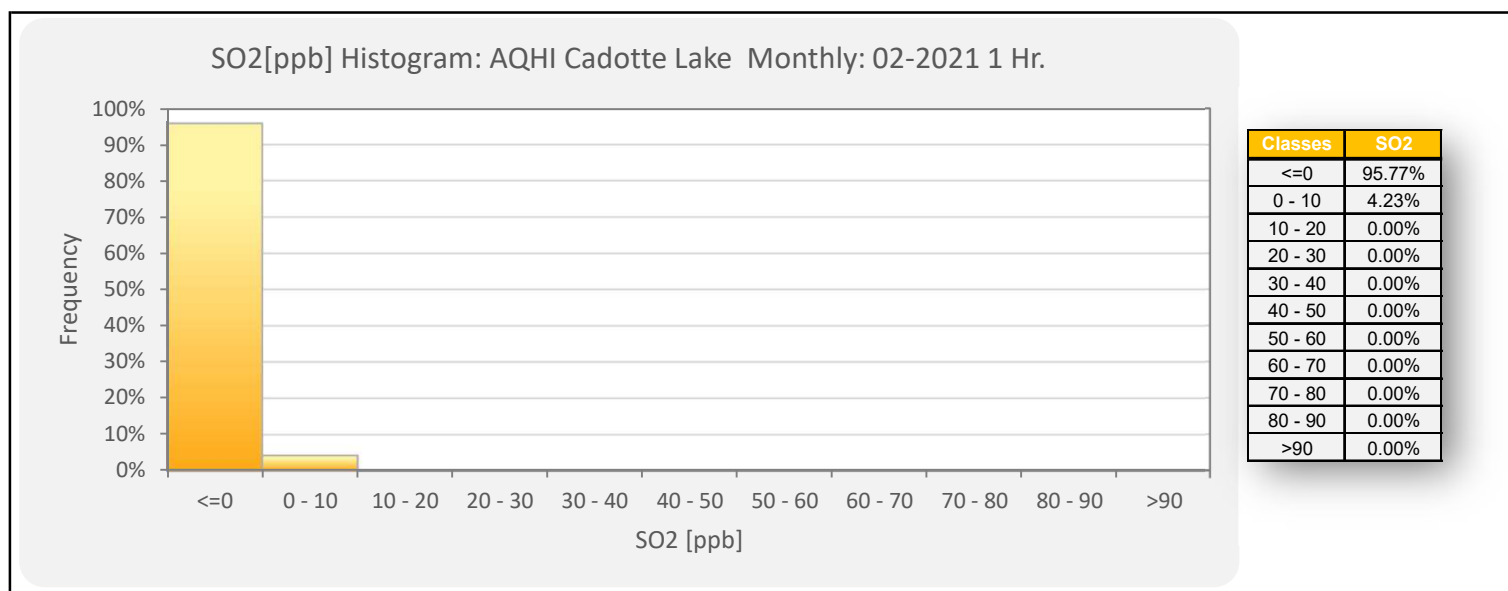
Maximum Hourly Value: 1 ppb on February 14 at hour 11 Hours in Service: 672
 Maximum Daily Value: 0.2 ppb on February 15 Hours of Data: 638
 Minimum Hourly Value: 0 ppb on February 1 at hour 0 Hours of Missing Data: 0
 Minimum Daily Value: 0.0 ppb on February 1 Hours of Calibration: 34
 Monthly Average: 0.0 ppb Operational Uptime: 100.0

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23		
Feb 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	S	0	0	0	0	0	0	0	0	0	0.0
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 5	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 6	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 7	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 8	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 9	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 10	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 11	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 12	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 13	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 14	0	0	0	S	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Feb 15	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	0.2	
Feb 16	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 17	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 18	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	
Feb 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0.0
Feb 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Feb 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0.0
Feb 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0.0
Feb 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0.0
Feb 24	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 27	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 28	0	0	0	0	0	0	0	0	0	0	1	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	
Diurnal Maximum	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance												
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure				
X	Invalid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																				

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
 Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

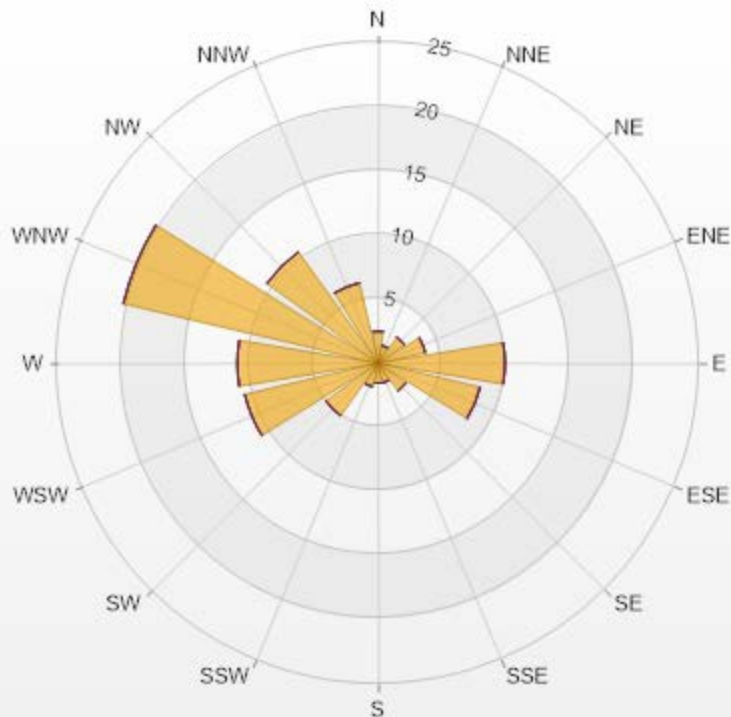
Timeseries Chart of Hourly Average for SO₂ - AQHI - Cadotte Lake Station





Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-SO2[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.94% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	2.51	0	0	0	0	2.51
NNE	1.41	0	0	0	0	1.41
NE	2.51	0	0	0	0	2.51
ENE	3.76	0	0	0	0	3.76
E	9.87	0	0	0	0	9.87
ESE	8.15	0	0	0	0	8.15
SE	2.66	0	0	0	0	2.66
SSE	1.57	0	0	0	0	1.57
S	1.57	0	0	0	0	1.57
SSW	1.88	0	0	0	0	1.88
SW	5.02	0	0	0	0	5.02
WSW	10.66	0	0	0	0	10.66
W	10.97	0	0	0	0	10.97
WNW	20.38	0	0	0	0	20.38
NW	10.66	0	0	0	0	10.66
NNW	6.43	0	0	0	0	6.43
Summary	100	0	0	0	0	100



PRAMP-202102

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% Icon Classes (ppb)

100 0-10

0 10-50

0 50-100

0 100-172

0 >172.0



PEACE RIVER AREA MONITORING PROGRAM

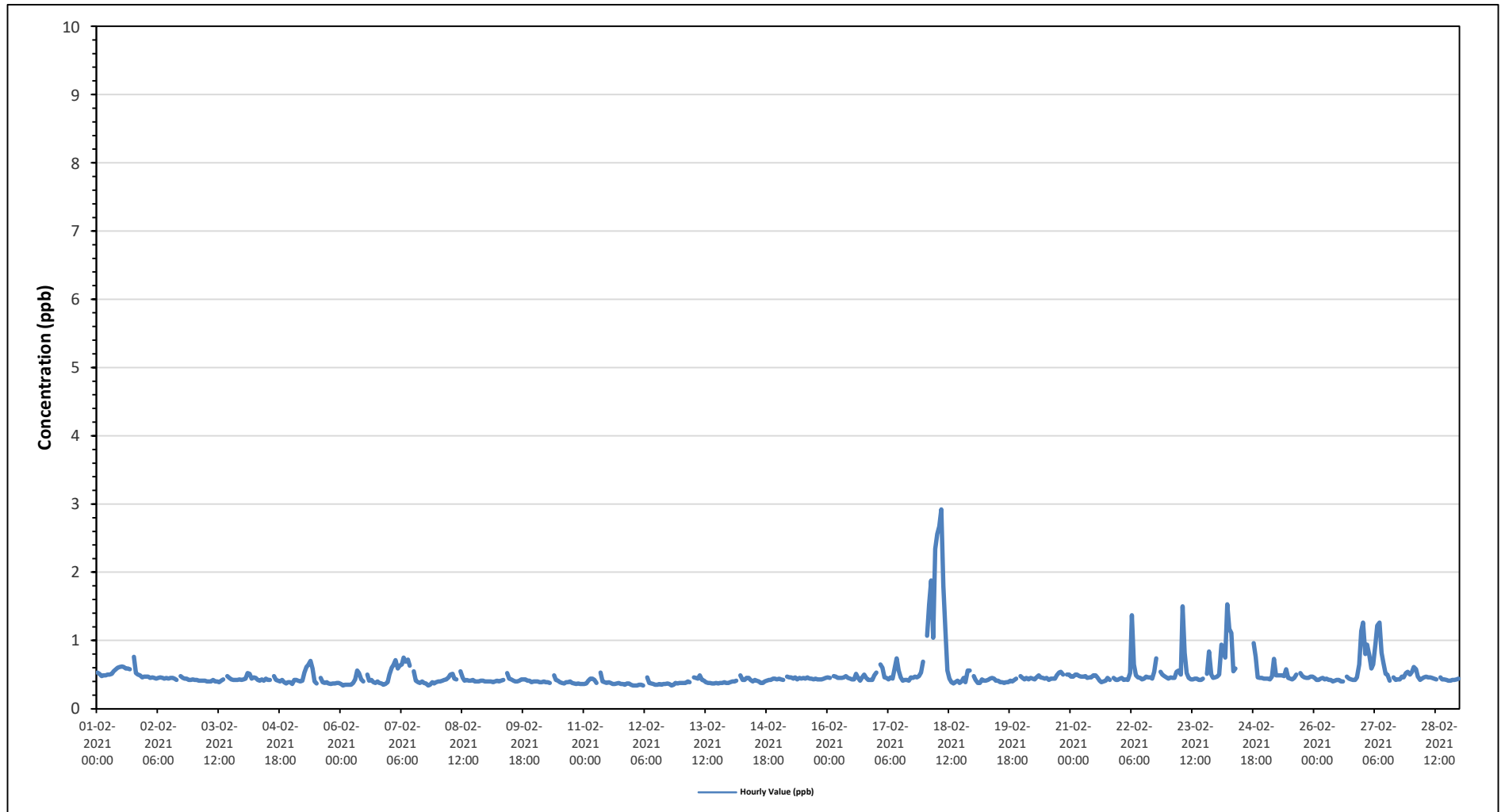
AQHI - Cadotte Lake Station - February 2021

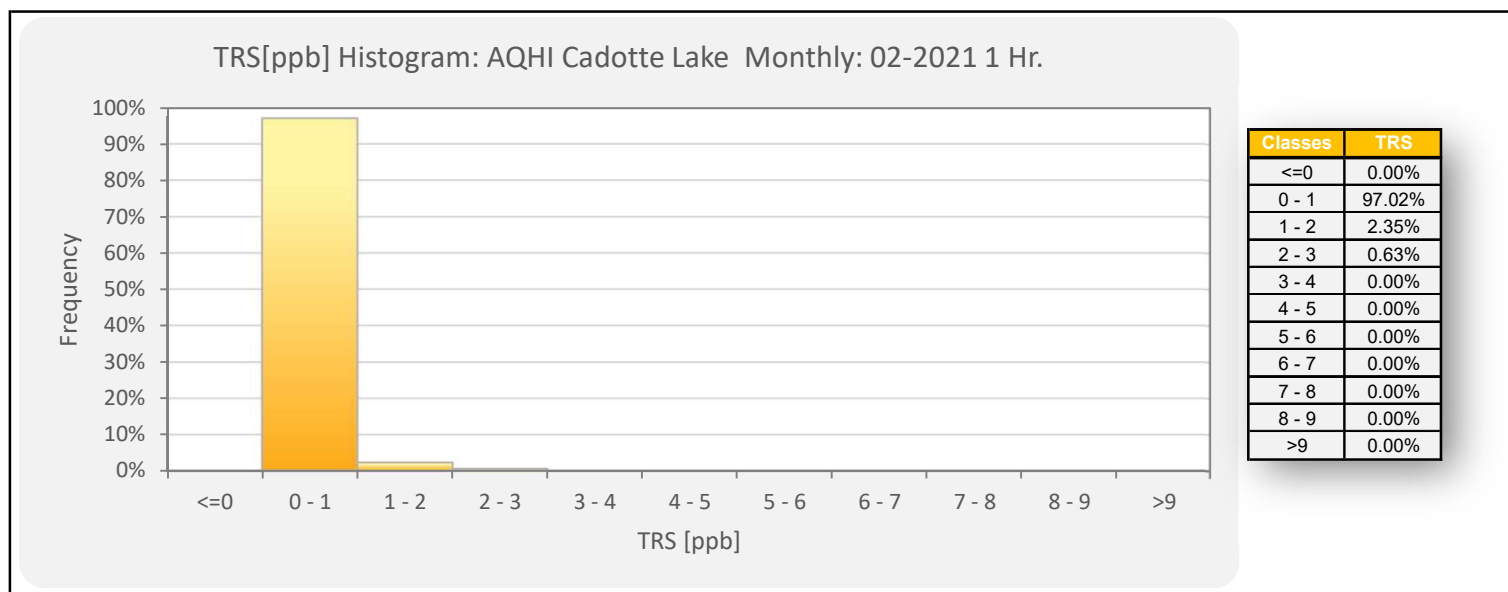
Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

Alberta Ambient Air Quality Objectives (AAAQO) for H2S: 1-Hour 10 ppb, 24-Hour 3 ppb																													
Number of 1-Hour Exceedances: 0														Number of 24-Hour Exceedances: 0															
Maximum Hourly Value: 2.92 ppb on February 18 at hour 8														Hours in Service: 672															
Maximum Daily Value: 1.10 ppb on February 18														Hours of Data: 637															
Minimum Hourly Value: 0.34 ppb on February 6 at hour 1														Hours of Missing Data: 0															
Minimum Daily Value: 0.36 ppb on February 12														Hours of Calibration: 35															
Monthly Average: 0.49 ppb														Operational Uptime: 100.0															
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23					
Feb 1	0.53	0.51	0.48	0.49	0.49	0.5	0.5	0.51	0.55	0.58	0.6	0.61	0.62	0.61	0.59	0.59	0.58	S	0.76	0.52	0.5	0.49	0.46	0.47	0.46	0.76	0.55		
Feb 2	0.47	0.47	0.45	0.46	0.45	0.44	0.45	0.46	0.45	0.44	0.45	0.44	0.45	0.44	0.44	0.42	S	0.48	0.45	0.44	0.44	0.42	0.42	0.43	0.42	0.48	0.45		
Feb 3	0.42	0.42	0.41	0.41	0.41	0.41	0.4	0.4	0.4	0.42	0.4	0.4	0.39	0.41	0.43	S	0.48	0.45	0.43	0.42	0.42	0.42	0.43	0.42	0.39	0.48	0.42		
Feb 4	0.43	0.44	0.52	0.51	0.44	0.46	0.45	0.42	0.41	0.43	0.41	0.44	0.42	0.42	S	0.48	0.42	0.41	0.4	0.42	0.39	0.37	0.39	0.39	0.37	0.52	0.43		
Feb 5	0.36	0.42	0.42	0.41	0.4	0.41	0.53	0.61	0.64	0.7	0.59	0.4	0.37	S	0.45	0.39	0.38	0.39	0.37	0.36	0.37	0.37	0.38	0.38	0.36	0.70	0.44		
Feb 6	0.36	0.34	0.35	0.35	0.35	0.35	0.38	0.43	0.56	0.52	0.43	0.4	S	0.5	0.41	0.42	0.39	0.38	0.4	0.38	0.37	0.35	0.36	0.39	0.34	0.56	0.40		
Feb 7	0.5	0.6	0.64	0.71	0.59	0.63	0.65	0.75	0.69	0.72	0.63	S	0.55	0.41	0.39	0.38	0.4	0.38	0.37	0.34	0.35	0.39	0.37	0.39	0.34	0.75	0.51		
Feb 8	0.4	0.4	0.41	0.42	0.43	0.46	0.5	0.51	0.44	0.43	S	0.55	0.45	0.41	0.42	0.41	0.41	0.42	0.4	0.4	0.4	0.41	0.41	0.4	0.40	0.55	0.43		
Feb 9	0.4	0.4	0.4	0.39	0.4	0.41	0.4	0.41	0.42	S	0.52	0.44	0.43	0.41	0.4	0.4	0.41	0.43	0.43	0.43	0.41	0.41	0.39	0.4	0.39	0.52	0.41		
Feb 10	0.4	0.4	0.39	0.39	0.4	0.39	0.39	0.38	S	0.49	0.42	0.41	0.39	0.38	0.37	0.39	0.39	0.4	0.38	0.37	0.36	0.37	0.36	0.36	0.36	0.49	0.39		
Feb 11	0.36	0.37	0.41	0.44	0.44	0.42	0.38	S	0.53	0.4	0.39	0.38	0.39	0.38	0.36	0.36	0.37	0.38	0.36	0.36	0.35	0.37	0.37	0.35	0.35	0.53	0.39		
Feb 12	0.34	0.34	0.34	0.35	0.35	0.34	S	0.46	0.38	0.37	0.36	0.35	0.35	0.36	0.35	0.36	0.36	0.37	0.36	0.34	0.35	0.38	0.37	0.38	0.34	0.46	0.36		
Feb 13	0.38	0.38	0.38	0.4	0.39	S	0.46	0.45	0.44	0.49	0.42	0.41	0.39	0.38	0.38	0.37	0.37	0.38	0.37	0.38	0.38	0.39	0.38	0.38	0.37	0.49	0.40		
Feb 14	0.39	0.4	0.4	0.41	S	0.49	0.42	0.42	0.45	0.45	0.42	0.4	0.42	0.41	0.4	0.38	0.38	0.4	0.41	0.42	0.42	0.44	0.44	0.43	0.38	0.49	0.42		
Feb 15	0.44	0.43	0.42	S	0.47	0.46	0.46	0.44	0.46	0.43	0.45	0.44	0.45	0.44	0.46	0.44	0.44	0.43	0.44	0.43	0.43	0.43	0.44	0.45	0.42	0.47	0.44		
Feb 16	0.46	0.45	S	0.48	0.47	0.45	0.45	0.45	0.46	0.48	0.45	0.44	0.43	0.43	0.51	0.45	0.41	0.46	0.5	0.45	0.42	0.42	0.42	0.49	0.41	0.51	0.45		
Feb 17	0.53	S	0.65	0.6	0.46	0.45	0.43	0.46	0.44	0.59	0.74	0.56	0.46	0.41	0.42	0.42	0.41	0.46	0.45	0.47	0.46	0.48	0.53	0.69	0.41	0.74	0.50		
Feb 18	S	1.07	1.53	1.88	1.04	2.34	2.56	2.67	2.92	1.8	1.16	0.56	0.44	0.39	0.37	0.39	0.41	0.38	0.4	0.45	0.39	0.56	0.56	S	0.37	2.92	1.10		
Feb 19	0.48	0.42	0.38	0.38	0.43	0.41	0.41	0.42	0.44	0.45	0.44	0.41	0.41	0.39	0.39	0.38	0.39	0.39	0.41	0.4	0.42	0.44	S	0.48	0.38	0.48	0.42		
Feb 20	0.45	0.43	0.45	0.43	0.45	0.44	0.43	0.46	0.49	0.46	0.45	0.44	0.45	0.42	0.44	0.44	0.44	0.49	0.53	0.54	0.5	S	0.5	0.5	0.42	0.54	0.46		
Feb 21	0.47	0.47	0.5	0.5	0.48	0.47	0.47	0.48	0.45	0.46	0.46	0.49	0.49	0.46	0.41	0.39	0.4	0.41	0.45	0.42	S	0.45	0.42	0.42	0.39	0.50	0.45		
Feb 22	0.44	0.45	0.42	0.43	0.42	0.52	1.37	0.65	0.49	0.46	0.45	0.43	0.44	0.47	0.46	0.46	0.44	0.54	0.74	S	0.54	0.5	0.48	0.46	0.42	1.37	0.52		
Feb 23	0.44	0.46	0.45	0.45	0.54	0.56	0.5	1.5	0.82	0.52	0.45	0.43	0.43	0.44	0.44	0.42	0.42	0.44	S	0.51	0.84	0.5	0.45	0.46	0.42	1.50	0.54		
Feb 24	0.47	0.5	0.94	0.9	0.75	1.53	1.17	1.11	0.55	0.59	C	C	C	C	C	C	C	0.56	S	0.96	0.76	0.46	0.45	0.44	0.44	1.53	-		
Feb 25	0.44	0.44	0.43	0.47	0.73	0.49	0.49	0.49	0.49	0.48	0.58	0.45	0.44	0.43	0.45	0.5	S	0.52	0.48	0.46	0.45	0.45	0.47	0.47	0.43	0.73	0.48		
Feb 26	0.45	0.42	0.42	0.44	0.45	0.43	0.44	0.42	0.42	0.4	0.41	0.42	0.42	0.4	0.4	S	0.47	0.44	0.43	0.42	0.42	0.46	0.65	1.14	0.40	1.14	0.47		
Feb 27	1.26	0.8	0.94	0.78	0.59	0.65	0.95	1.22	1.26	0.82	0.68	0.51	0.5	0.41	S	0.46	0.42	0.43	0.43	0.47	0.46	0.52	0.54	0.5	0.41	1.26	0.68		
Feb 28	0.54	0.61	0.58	0.47	0.42	0.44	0.46	0.47	0.46	0.46	0.45	0.44	0.43	S	0.46	0.43	0.43	0.42	0.41	0.41	0.42	0.42	0.43	0.44	0.41	0.61	0.46		
Diurnal Maximum	1.26	1.07	1.53	1.88	1.04	2.34	2.56	2.67	2.92	1.80	1.16	0.61	0.62	0.61	0.59	0.59	0.58	0.54	0.96	0.76	0.84	0.56	0.65	1.14					
Diurnal Average	0.47	0.48	0.52	0.53	0.49	0.57	0.61	0.65	0.61	0.55	0.51	0.45	0.44	0.42	0.42	0.42	0.42	0.43	0.46	0.44	0.43	0.43	0.44	0.46					
C	Monthly Calibration								S	Daily Zero-Span Check								Q	Quality Assurance										
K	Collection Error								N	No Data (Machine Not in Service)								Y	Routine Maintenance								P	Power Failure	
X	InValid Data (Equipment Malfunction/Recovery)								NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																													

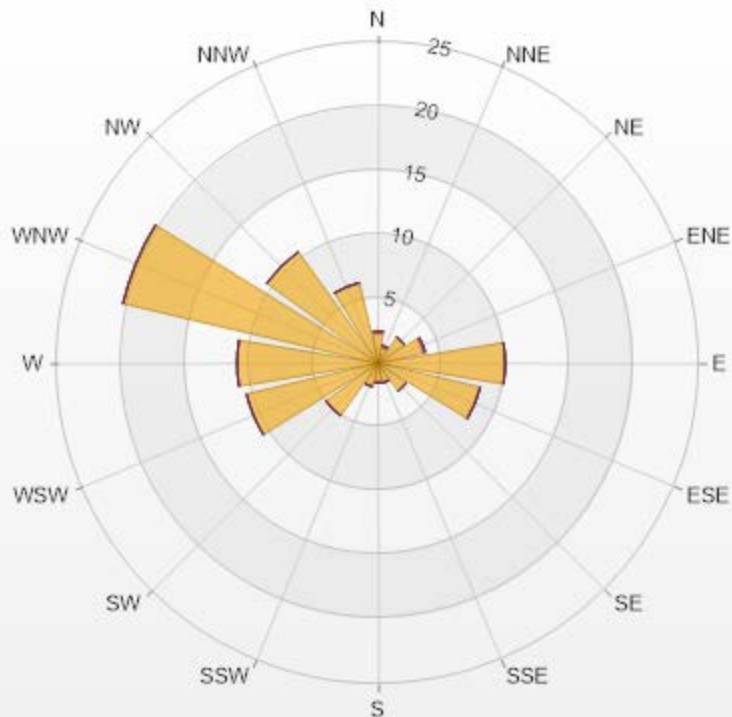
Timeseries Chart of Hourly Average for TRS - AQHI - Cadotte Lake Station





Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-TRS[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.79% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	2.35	0.16	0	0	0	2.51
NNE	1.26	0.16	0	0	0	1.42
NE	2.51	0	0	0	0	2.51
ENE	3.61	0.16	0	0	0	3.77
E	9.89	0	0	0	0	9.89
ESE	8.16	0	0	0	0	8.16
SE	2.67	0	0	0	0	2.67
SSE	1.57	0	0	0	0	1.57
S	1.41	0.16	0	0	0	1.57
SSW	1.88	0	0	0	0	1.88
SW	5.02	0	0	0	0	5.02
WSW	10.52	0	0	0	0	10.52
W	10.99	0	0	0	0	10.99
WNW	20.41	0	0	0	0	20.41
NW	10.68	0	0	0	0	10.68
NNW	6.44	0	0	0	0	6.44
Summary	99.37	0.64	0	0	0	100



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% Icon Classes (ppb)

99 0-2

1 2-5

0 5-10

0 10-50

0 >50.0



PEACE RIVER AREA MONITORING PROGRAM

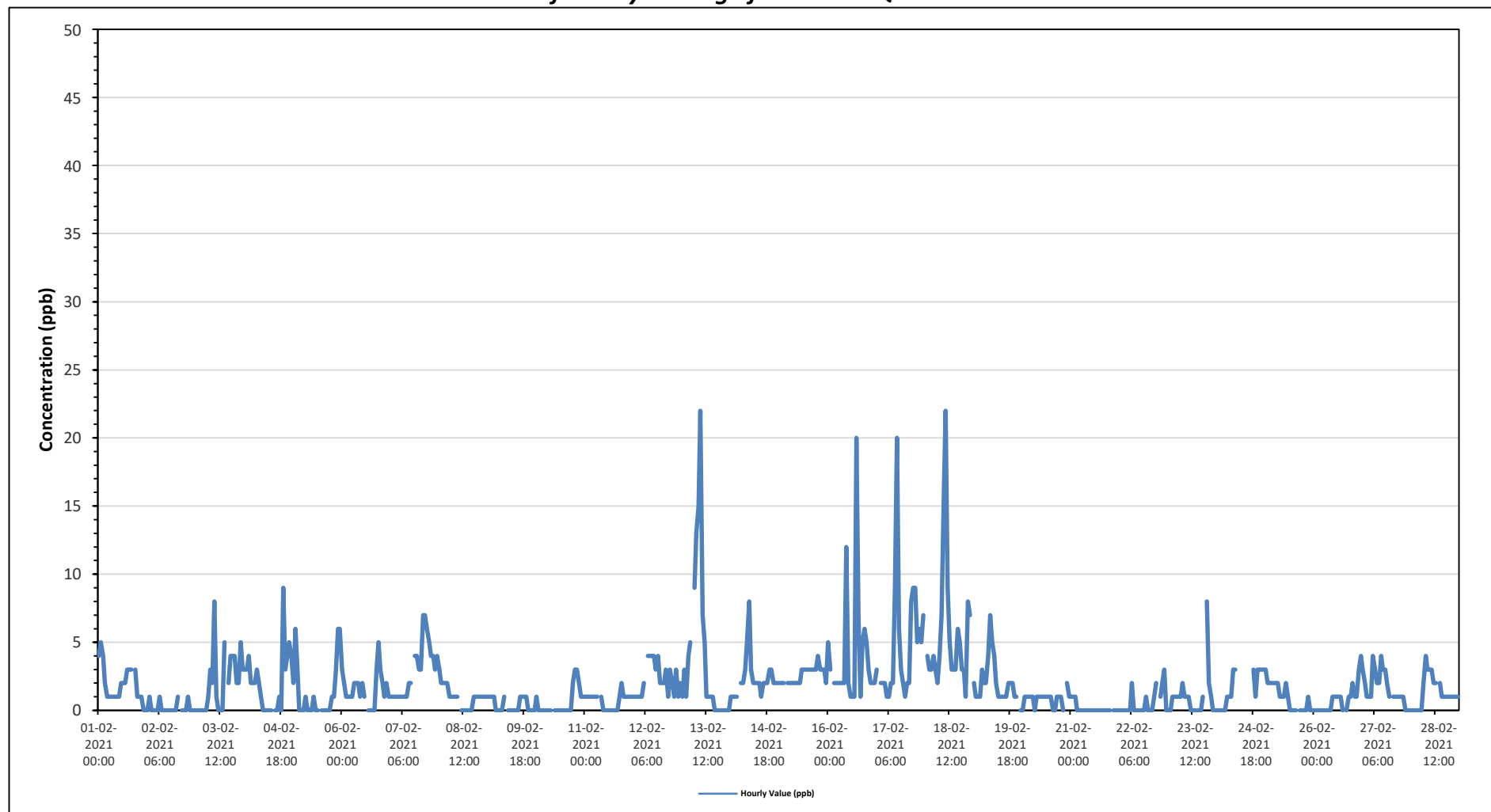
AQHI - Cadotte Lake Station - February 2021

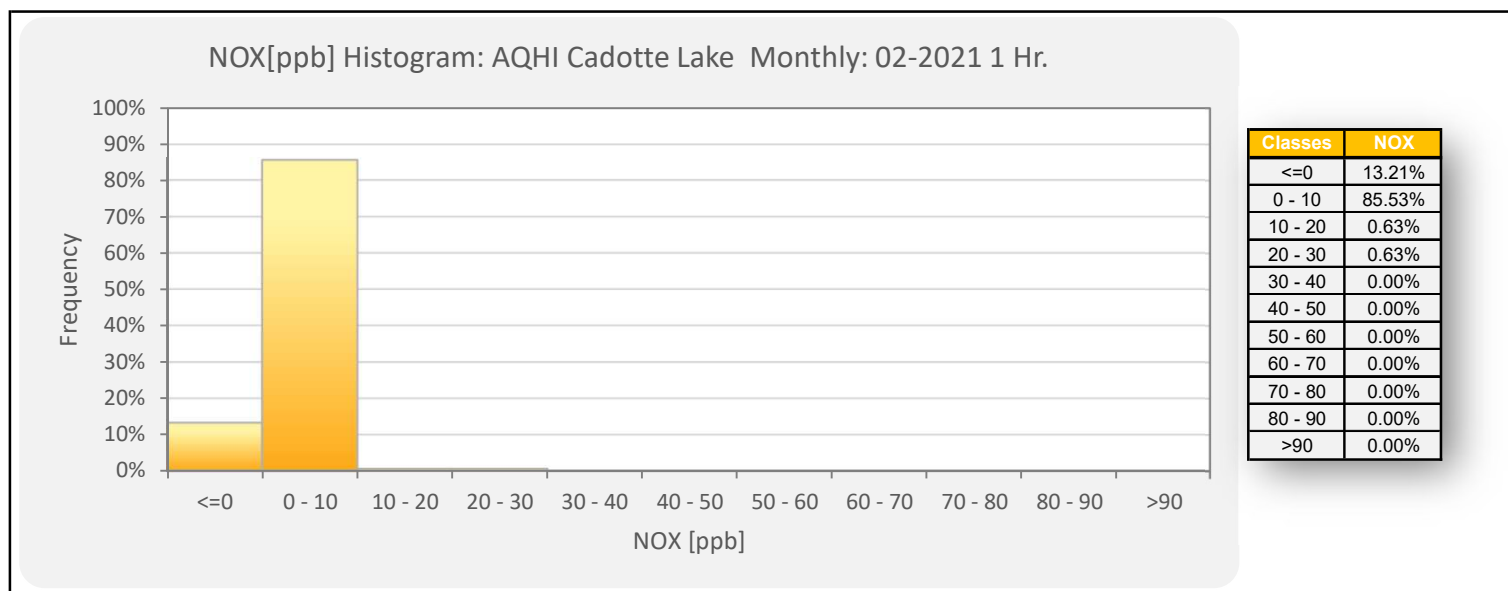
Summary of Hourly Averages

OXIDES OF NITROGEN (NOx) in ppb

Maximum Hourly Value:	22	ppb	on February 13 at hour 9	Hours in Service:	672																							
Maximum Daily Value:	5.6	ppb	on February 18	Hours of Data:	636																							
Minimum Hourly Value:	0	ppb	on February 1 at hour 22	Hours of Missing Data:	0																							
Minimum Daily Value:	0.1	ppb	on February 21	Hours of Calibration:	36																							
Monthly Average:	1.8	ppb		Operational Uptime:	100.0																							
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average	
Feb 1	4	5	4	2	1	1	1	1	1	1	1	2	2	2	3	3	3	S	3	1	1	1	0	0	0	5	1.9	
Feb 2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	S	0	0	0	1	0	0	0	0	1	0.2	
Feb 3	0	0	0	0	0	0	1	3	2	8	1	0	0	0	5	S	2	4	4	4	2	2	5	3	0	8	2.0	
Feb 4	3	3	4	2	2	2	3	2	1	0	0	0	0	0	S	0	0	1	0	9	3	4	5	4	0	9	2.1	
Feb 5	2	6	3	0	0	0	1	0	0	0	1	0	0	S	0	0	0	0	0	1	1	3	6	6	0	6	1.3	
Feb 6	3	2	1	1	1	1	2	2	2	1	2	1	S	0	0	0	0	3	5	3	2	1	2	1	0	5	1.6	
Feb 7	1	1	1	1	1	1	1	1	1	2	2	S	4	4	3	3	7	7	6	5	4	4	3	4	1	7	2.9	
Feb 8	3	2	2	2	2	1	1	1	1	1	S	0	0	0	0	0	0	1	1	1	1	1	1	1	0	3	1.0	
Feb 9	1	1	1	1	0	0	0	0	0	1	S	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0.4	
Feb 10	1	0	0	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	2	3	3	2	1	1	0	3	0.6	
Feb 11	1	1	1	1	1	1	1	S	1	0	0	0	0	0	0	0	0	1	2	1	1	1	1	1	0	2	0.7	
Feb 12	1	1	1	1	1	2	S	4	4	4	4	3	4	2	2	2	3	1	3	2	1	3	1	2	1	4	2.3	
Feb 13	1	3	1	4	5	S	9	13	15	22	7	5	1	1	1	1	0	0	0	0	0	0	0	0	0	22	3.9	
Feb 14	1	1	1	1	S	2	2	3	5	8	3	2	2	2	2	1	2	2	2	3	3	2	2	2	1	8	2.3	
Feb 15	2	2	2	S	2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	3	3	3	3	2	2	4	2.6	
Feb 16	5	3	S	2	2	2	2	2	2	12	2	1	1	1	20	7	1	5	6	5	3	2	2	2	1	20	3.9	
Feb 17	3	S	2	2	2	1	1	2	2	9	20	6	3	2	1	2	2	8	9	5	6	5	7	1	20	4.7		
Feb 18	S	4	3	3	4	3	2	4	7	15	22	9	5	3	3	6	5	3	3	1	8	7	S	1	22	5.6		
Feb 19	2	1	1	1	3	2	2	4	7	5	4	2	1	1	1	1	2	2	2	1	1	S	0	0	7	2.0		
Feb 20	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	0	S	2	1	0	2	0.8		
Feb 21	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.1	
Feb 22	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	1	2	S	1	2	3	0	0	3	0.5	
Feb 23	0	0	1	1	1	1	1	2	1	1	1	0	0	0	0	0	1	S	8	2	1	0	0	0	0	8	1.0	
Feb 24	0	0	0	0	0	1	1	1	3	3	C	C	C	C	C	C	C	S	3	1	3	3	3	3	0	3	-	
Feb 25	3	2	2	2	2	2	2	1	1	1	2	1	0	0	0	0	S	0	0	0	0	1	0	0	0	3	1.0	
Feb 26	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	S	0	1	1	2	1	1	3	4	0	4	0.8	
Feb 27	3	2	1	1	1	4	3	2	2	4	3	3	2	1	S	1	1	1	1	1	1	0	0	0	0	4	1.7	
Feb 28	0	0	0	0	0	0	2	4	3	3	3	2	2	S	2	1	1	1	1	1	1	1	1	1	0	4	1.3	
Diurnal Maximum	5	6	4	4	5	4	9	13	15	22	22	9	5	4	20	7	7	8	9	9	5	8	7	7				
Diurnal Average	1.5	1.6	1.3	1.1	1.2	1.1	1.6	2.0	2.4	3.9	3.2	1.6	1.2	1.0	1.9	1.2	1.3	1.9	2.3	2.6	1.7	2.0	2.1	1.7				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance											
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure			
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

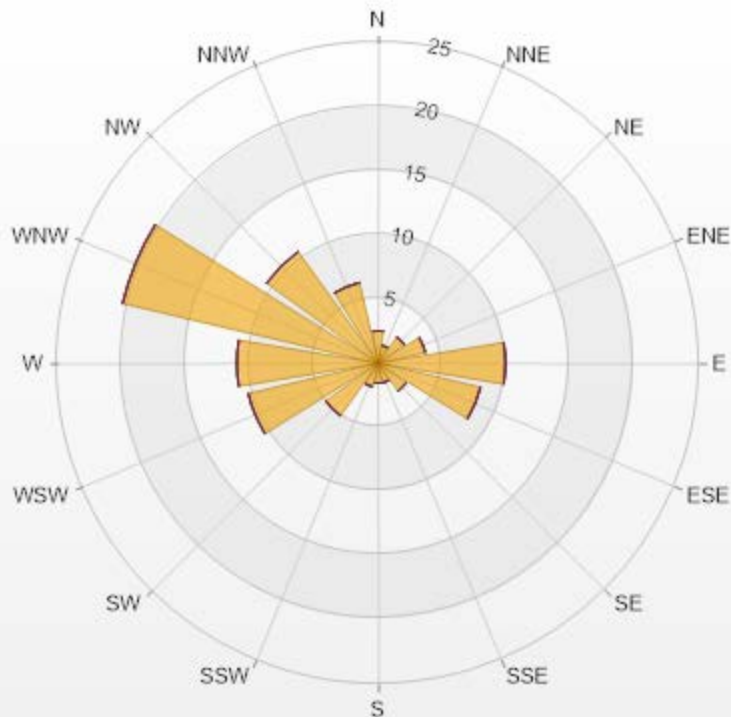
Timeseries Chart of Hourly Average for NOx - AQHI - Cadotte Lake Station





Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NOX[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.64% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	2.52	0	0	0	0	2.52
NNE	1.42	0	0	0	0	1.42
NE	2.52	0	0	0	0	2.52
ENE	3.77	0	0	0	0	3.77
E	9.91	0	0	0	0	9.91
ESE	8.18	0	0	0	0	8.18
SE	2.67	0	0	0	0	2.67
SSE	1.57	0	0	0	0	1.57
S	1.57	0	0	0	0	1.57
SSW	1.89	0	0	0	0	1.89
SW	5.03	0	0	0	0	5.03
WSW	10.38	0	0	0	0	10.38
W	11.01	0	0	0	0	11.01
WNW	20.44	0	0	0	0	20.44
NW	10.69	0	0	0	0	10.69
NNW	6.45	0	0	0	0	6.45
Summary	100	0	0	0	0	100



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% Icon Classes (ppb)

100 0-30

0 30-50

0 50-76

0 76-159

0 >159.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

NITRIC OXIDE (NO) in ppb

Maximum Hourly Value:	14	ppb	on February 18 at hour 10	Hours in Service:	672
Maximum Daily Value:	1.8	ppb	on February 18	Hours of Data:	636
Minimum Hourly Value:	0	ppb	on February 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on February 25	Hours of Calibration:	36
Monthly Average:	0.4	ppb		Operational Uptime:	100.0

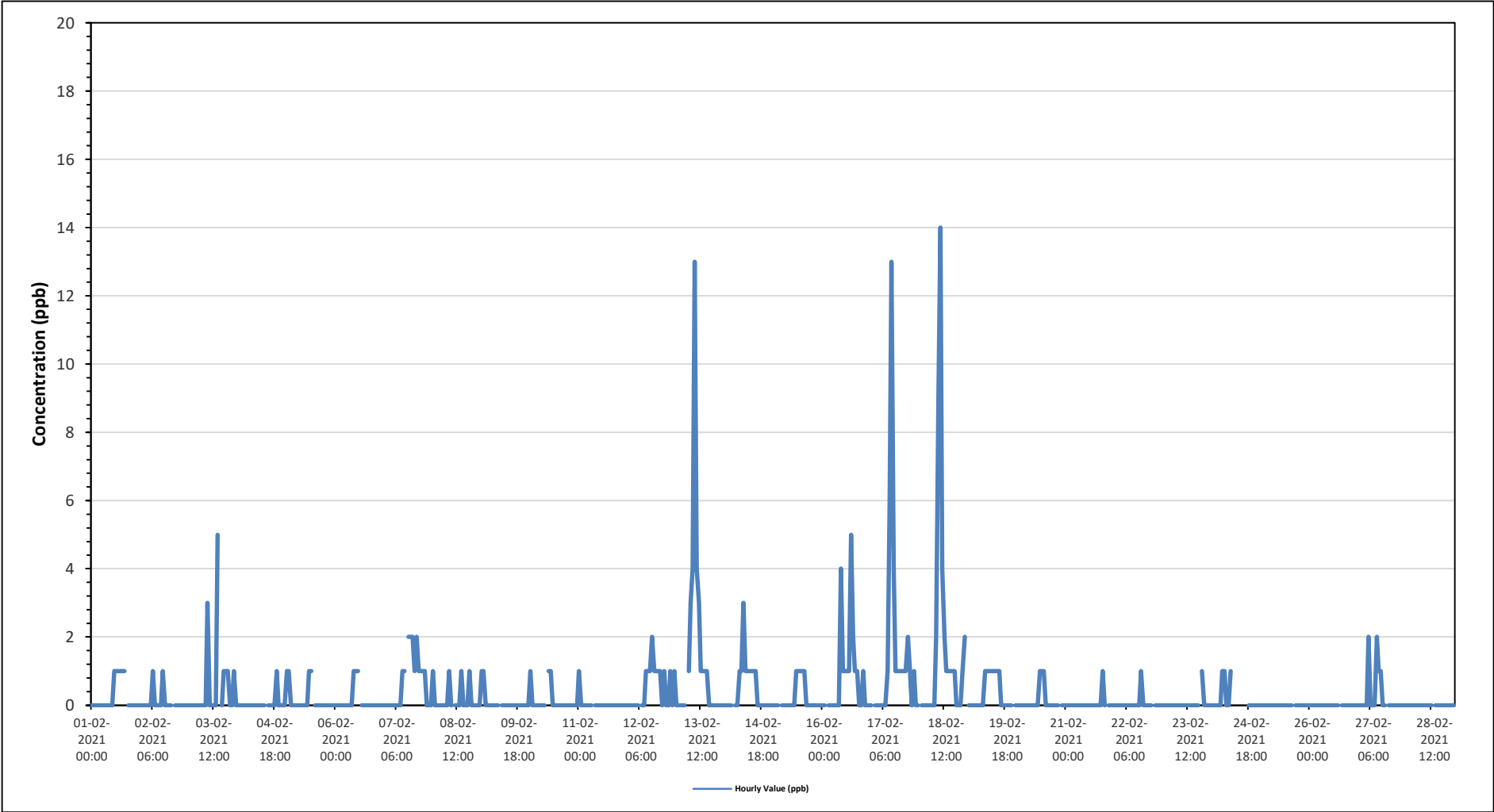
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	S	0	0	0	0	0	0	0	1	0.3
Feb 2	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.1
Feb 3	0	0	0	0	0	0	0	0	0	3	0	0	0	0	5	S	0	1	1	1	0	0	1	0	0	5	0.5
Feb 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0	0	0	0	0	1	0.0
Feb 5	1	1	0	0	0	0	0	0	0	0	0	1	1	S	0	0	0	0	0	0	0	0	0	0	0	1	0.2
Feb 6	0	0	0	0	0	0	0	0	0	1	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Feb 7	0	0	0	0	0	0	0	0	0	1	1	S	2	2	2	1	2	1	1	1	1	0	0	0	0	2	0.7
Feb 8	1	0	0	0	0	0	0	0	1	0	S	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0.2
Feb 9	1	1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Feb 10	1	0	0	0	0	0	0	0	S	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Feb 11	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Feb 12	0	0	0	0	0	0	S	0	0	1	1	1	2	1	1	1	1	0	1	0	0	1	0	1	0	2	0.5
Feb 13	0	0	0	0	0	S	1	3	4	13	4	3	1	1	1	1	0	0	0	0	0	0	0	0	0	13	1.4
Feb 14	0	0	0	0	S	0	0	1	1	3	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	3	0.5
Feb 15	0	0	0	S	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0.2
Feb 16	0	0	S	0	0	0	0	0	0	4	1	1	1	1	5	2	1	1	0	0	1	0	0	0	0	5	0.8
Feb 17	0	S	0	0	0	0	0	0	1	6	13	4	1	1	1	1	1	1	2	1	0	1	0	0	0	13	1.5
Feb 18	S	0	0	0	0	0	0	0	2	9	14	4	2	1	1	1	1	1	0	0	0	1	2	S	0	14	1.8
Feb 19	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	S	0	0	1	0.3
Feb 20	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	S	0	0	0	1	0.1
Feb 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	S	0	0	0	0	1	0.0
Feb 22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	S	0	0	0	0	0	1	0.0
Feb 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	0	0	0	0	1	0.0
Feb 24	0	0	0	0	0	1	1	0	0	1	C	C	C	C	C	C	C	S	0	0	0	0	0	0	0	1	-
Feb 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0.0
Feb 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0.0
Feb 27	0	0	0	0	0	2	0	0	0	2	1	1	0	0	S	0	0	0	0	0	0	0	0	0	0	2	0.3
Feb 28	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Diurnal Maximum	1	1	0	0	0	2	1	3	4	13	14	4	2	2	5	2	2	1	2	1	1	1	2	1			
Diurnal Average	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.4	1.7	1.5	0.8	0.6	0.5	0.8	0.4	0.3	0.2	0.3	0.2	0.1	0.1	0.1	0.0			

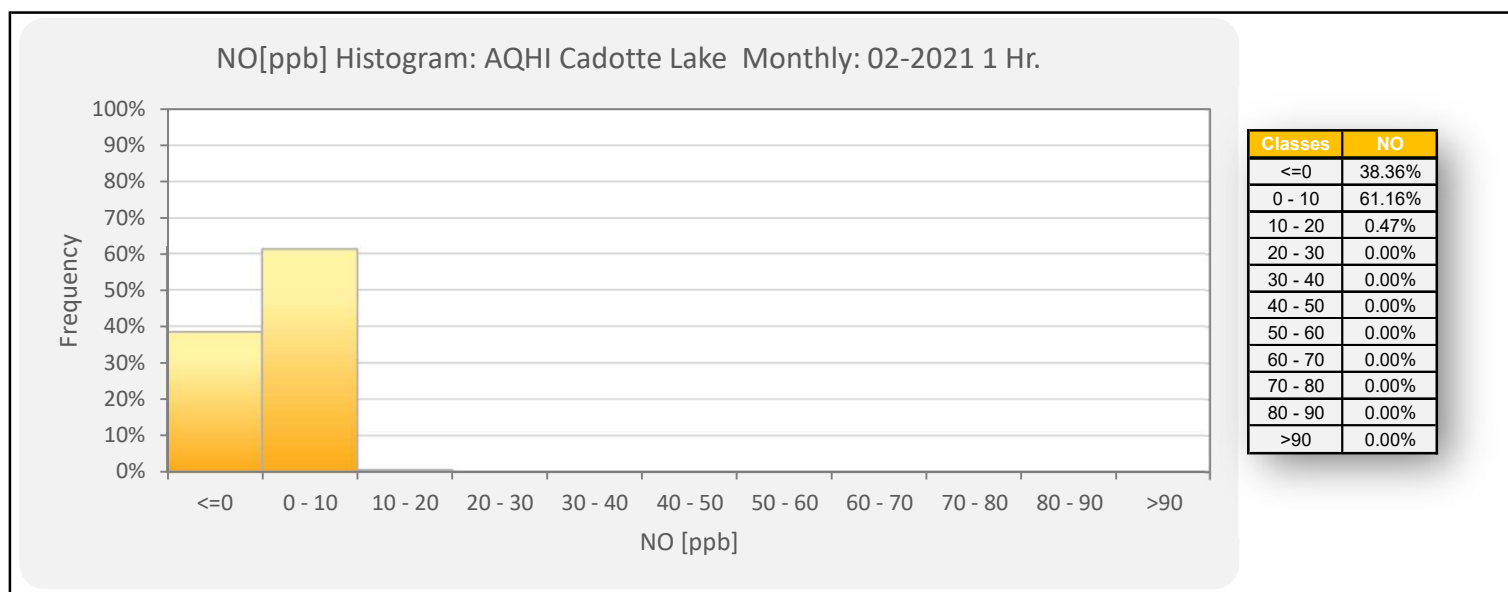
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance	P Power Failure
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)			

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

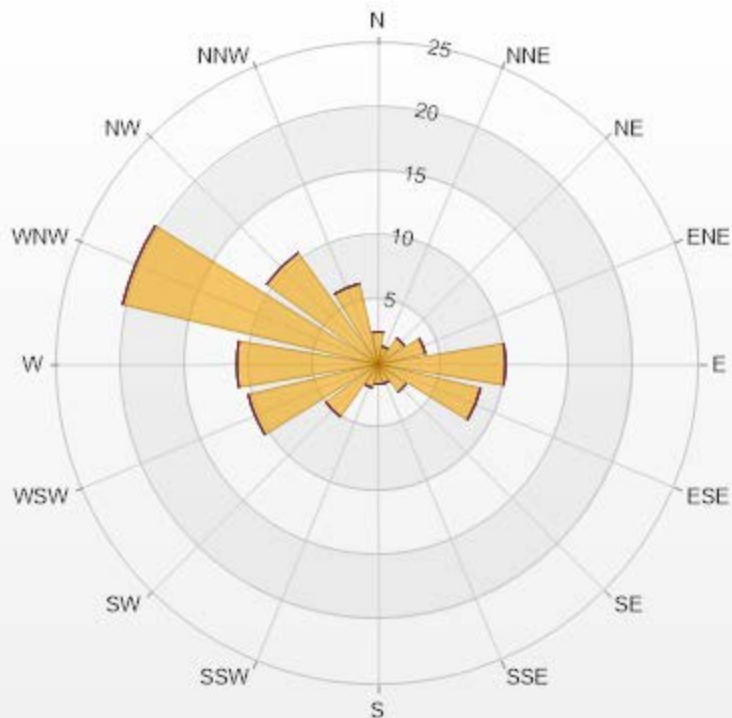
Timeseries Chart of Hourly Average for NO - AQHI - Cadotte Lake Station





Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NO[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.64% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	2.52	0	0	0	0	2.52
NNE	1.42	0	0	0	0	1.42
NE	2.52	0	0	0	0	2.52
ENE	3.77	0	0	0	0	3.77
E	9.91	0	0	0	0	9.91
ESE	8.18	0	0	0	0	8.18
SE	2.67	0	0	0	0	2.67
SSE	1.57	0	0	0	0	1.57
S	1.57	0	0	0	0	1.57
SSW	1.89	0	0	0	0	1.89
SW	5.03	0	0	0	0	5.03
WSW	10.38	0	0	0	0	10.38
W	11.01	0	0	0	0	11.01
WNW	20.44	0	0	0	0	20.44
NW	10.69	0	0	0	0	10.69
NNW	6.45	0	0	0	0	6.45
Summary	100	0	0	0	0	100



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% Icon Classes (ppb)

100 0-30

0 30-50

0 50-76

0 76-159

0 >159.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

NITROGEN DIOXIDE (NO₂) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 159 ppb

Number of 1-Hour Exceedances: 0

Maximum Hourly Value: 15 ppb on February 16 at hour 14

Hours in Service: 672

Maximum Daily Value: 3.7 ppb on February 18

Hours of Data: 636

Minimum Hourly Value: 0 ppb on February 1 at hour 9

Hours of Missing Data: 0

Minimum Daily Value: 0.0 ppb on February 2

Hours of Calibration: 36

Monthly Average: 1.4 ppb

Operational Uptime: 100.0

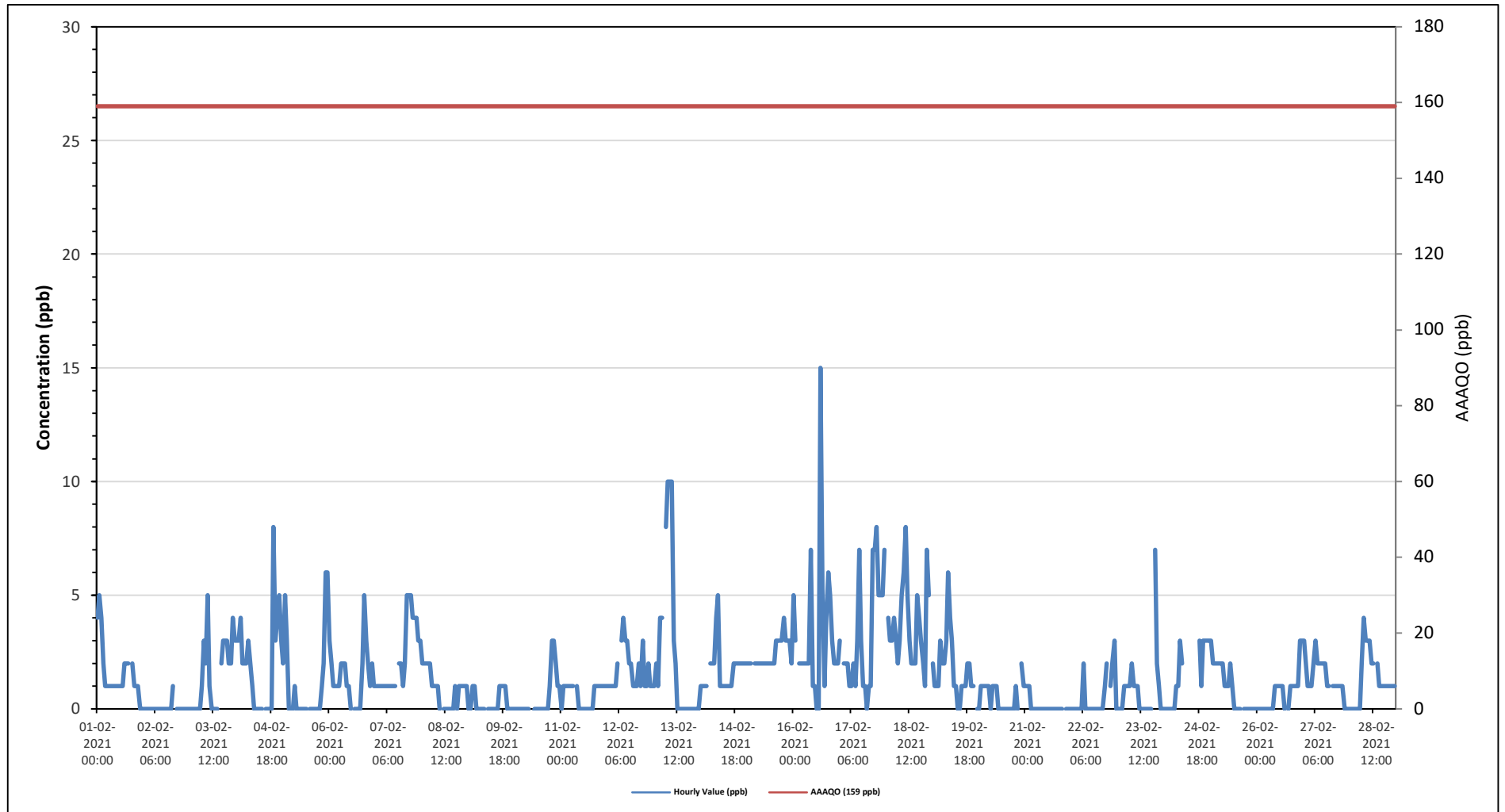
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Feb 1	4	5	4	2	1	1	1	1	1	1	1	1	1	1	2	2	2	S	2	1	1	1	0	0	0	0	5	1.6
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	0	0.0	
Feb 3	0	0	0	0	0	0	1	3	2	5	1	0	0	0	0	S	2	3	3	3	2	2	4	3	0	5	1.5	
Feb 4	3	3	4	2	2	2	3	2	1	0	0	0	0	0	S	0	0	0	0	8	3	4	5	3	0	8	2.0	
Feb 5	2	5	3	0	0	0	1	0	0	0	0	0	0	S	0	0	0	0	0	0	1	2	6	6	0	6	1.1	
Feb 6	3	2	1	1	1	1	2	2	2	1	1	0	S	0	0	0	0	2	5	3	2	1	2	1	0	5	1.4	
Feb 7	1	1	1	1	1	1	1	1	1	1	1	S	2	2	1	2	5	5	5	4	4	4	3	3	1	5	2.2	
Feb 8	2	2	2	2	2	1	1	1	1	0	S	0	0	0	0	0	0	1	0	1	1	1	1	1	0	2	0.9	
Feb 9	0	0	1	1	0	0	0	0	0	S	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0.3	
Feb 10	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	3	3	2	1	1	0	3	0.5	
Feb 11	0	1	1	1	1	1	1	S	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	1	0.6	
Feb 12	1	1	1	1	1	2	S	3	4	3	3	2	2	1	1	1	2	1	3	1	1	2	1	1	1	4	1.7	
Feb 13	1	2	1	4	4	S	8	10	10	10	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	10	2.4	
Feb 14	1	1	1	1	S	2	2	2	4	5	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	5	1.7	
Feb 15	2	2	2	S	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	4	3	3	3	2	2	4	2.4	
Feb 16	5	3	S	2	2	2	2	2	2	7	1	1	0	0	15	5	1	4	6	5	3	2	2	2	0	15	3.2	
Feb 17	3	S	2	2	2	1	1	2	1	3	7	3	1	1	0	1	1	7	7	8	5	5	5	7	0	8	3.3	
Feb 18	S	4	3	3	4	3	2	3	5	6	8	5	3	2	2	2	5	4	3	2	1	7	5	S	1	8	3.7	
Feb 19	2	1	1	1	3	2	2	3	6	4	3	1	1	0	0	1	1	1	2	2	1	1	S	0	0	6	1.7	
Feb 20	0	1	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	S	2	1	0	2	0.5	
Feb 21	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	1	0.1	
Feb 22	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	2	S	1	2	3	0	0	3	0.5	
Feb 23	0	0	0	1	1	1	1	2	1	1	1	0	0	0	0	0	0	0	S	7	2	1	0	0	0	7	0.8	
Feb 24	0	0	0	0	0	0	1	1	3	2	C	C	C	C	C	C	C	S	3	1	3	3	3	3	0	3	-	
Feb 25	3	2	2	2	2	2	2	1	1	1	2	1	0	0	0	0	S	0	0	0	0	0	0	0	0	3	0.9	
Feb 26	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	S	0	1	1	1	1	1	3	3	0	3	0.7	
Feb 27	3	2	1	1	1	2	3	2	2	2	2	2	1	1	S	1	1	1	1	1	1	0	0	0	0	3	1.3	
Feb 28	0	0	0	0	0	0	2	4	3	3	3	2	2	S	2	1	1	1	1	1	1	1	1	1	0	4	1.3	
Diurnal Maximum	5	5	4	4	4	3	8	10	10	10	8	5	3	2	15	5	5	7	7	8	5	7	6	7				
Diurnal Average	1.4	1.4	1.2	1.1	1.1	1.0	1.5	1.8	2.0	2.2	1.6	0.9	0.7	0.5	1.0	0.8	1.0	1.5	1.9	2.3	1.6	1.8	2.0	1.5				

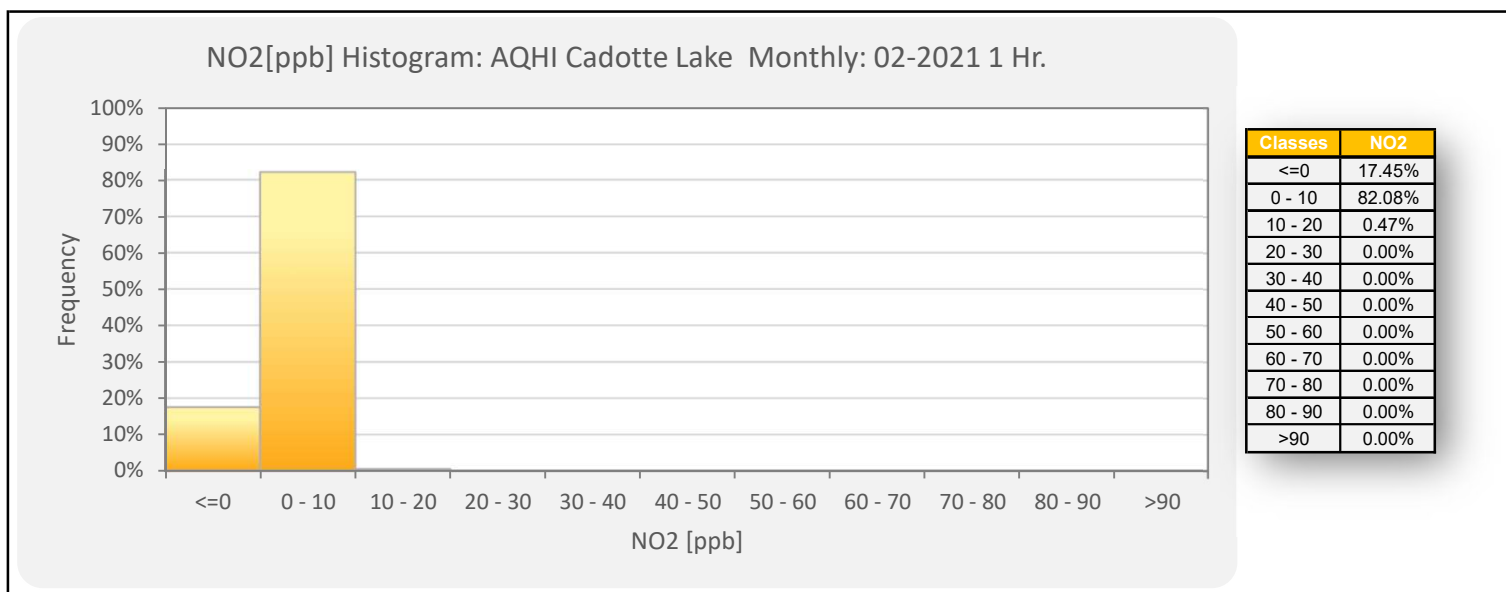
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction/Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

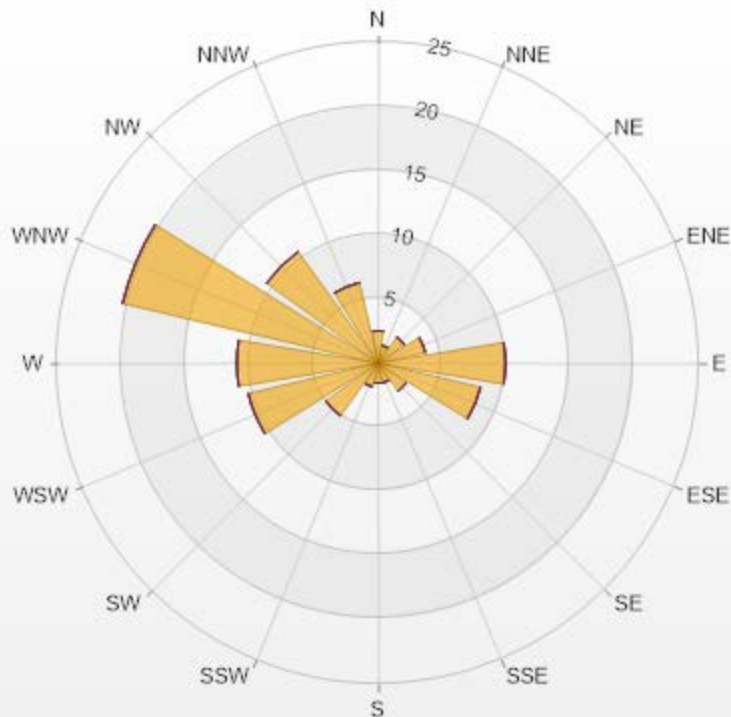
Timeseries Chart of Hourly Average for NO2 - AQHI - Cadotte Lake Station





Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NO2[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 94.64% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	2.52	0	0	0	0	2.52
NNE	1.42	0	0	0	0	1.42
NE	2.52	0	0	0	0	2.52
ENE	3.77	0	0	0	0	3.77
E	9.91	0	0	0	0	9.91
ESE	8.18	0	0	0	0	8.18
SE	2.67	0	0	0	0	2.67
SSE	1.57	0	0	0	0	1.57
S	1.57	0	0	0	0	1.57
SSW	1.89	0	0	0	0	1.89
SW	5.03	0	0	0	0	5.03
WSW	10.38	0	0	0	0	10.38
W	11.01	0	0	0	0	11.01
WNW	20.44	0	0	0	0	20.44
NW	10.69	0	0	0	0	10.69
NNW	6.45	0	0	0	0	6.45
Summary	100	0	0	0	0	100



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% Icon Classes (ppb)

100 0-30

0 30-50

0 50-76

0 76-159

0 >159.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

OZONE (O₃) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 76 ppb

Number of 1-Hour Exceedances: 0

Maximum Hourly Value: 45 ppb on February 22 at hour 10

Hours in Service: 672

Maximum Daily Value: 41.3 ppb on February 21

Hours of Data: 640

Minimum Hourly Value: 6 ppb on February 18 at hour 8

Hours of Missing Data: 0

Minimum Daily Value: 16.5 ppb on February 1

Hours of Calibration: 32

Monthly Average: 26.8 ppb

Operational Uptime: 100.0

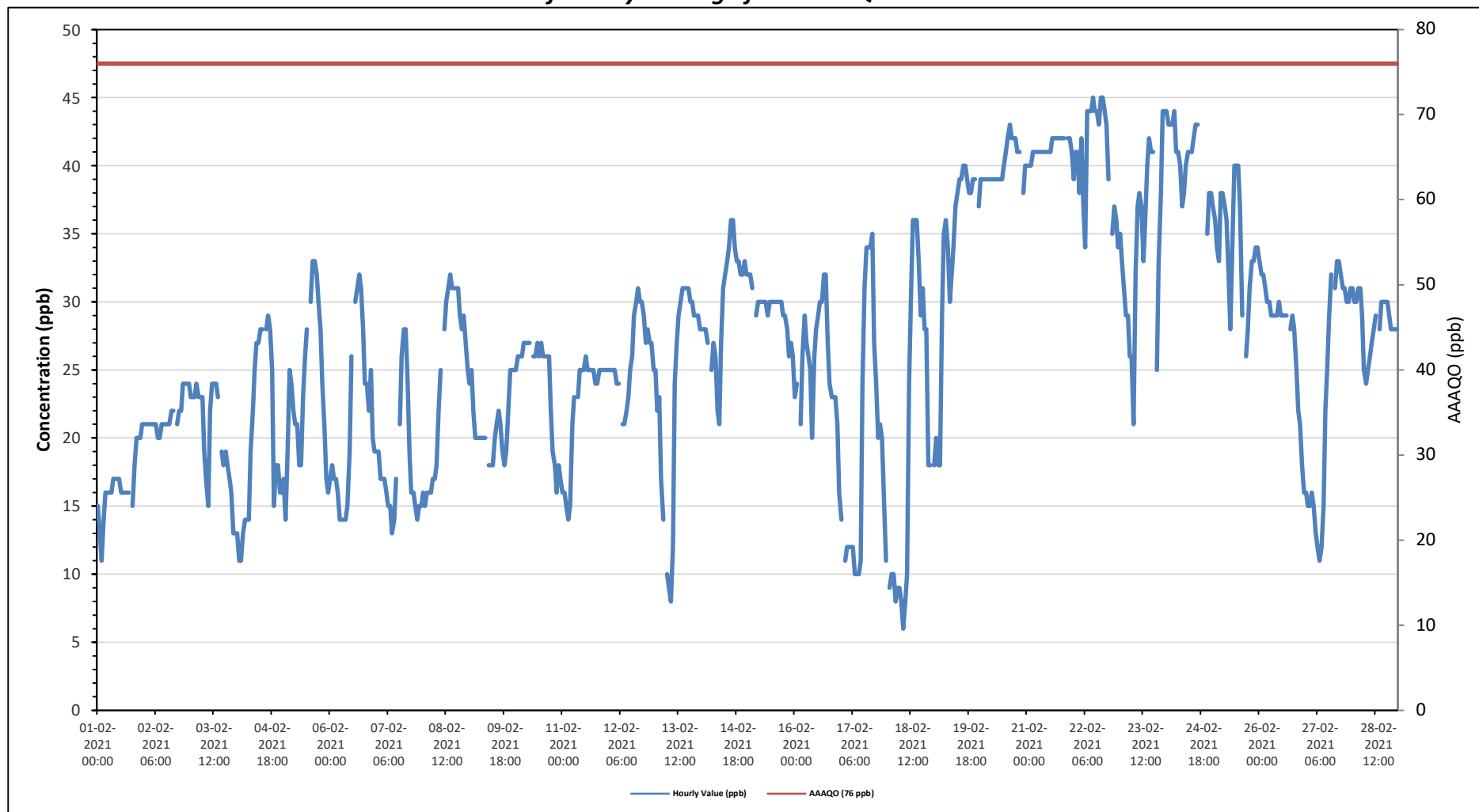
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	15	13	11	14	16	16	16	16	17	17	17	17	16	16	16	16	16	S	15	18	20	20	20	21	11.0	21.0	16.5
Feb 2	21	21	21	21	21	21	21	20	20	21	21	21	21	21	22	22	S	21	22	22	24	24	24	24	20.0	24.0	21.6
Feb 3	23	23	23	24	23	23	23	19	17	15	22	24	24	24	23	S	19	18	19	18	17	16	13	13	13.0	24.0	20.1
Feb 4	13	11	11	13	14	14	14	19	22	25	27	27	28	28	S	28	29	28	25	15	18	18	16	16	11.0	29.0	20.0
Feb 5	17	14	19	25	24	22	21	21	18	18	23	26	28	S	30	33	33	32	30	28	24	21	17	16	14.0	33.0	23.5
Feb 6	17	18	17	17	16	14	14	14	14	15	19	26	S	30	31	32	31	28	24	24	22	25	20	19	14.0	32.0	21.2
Feb 7	19	19	17	17	17	16	15	15	13	14	17	S	21	26	28	28	24	19	16	16	15	14	15	15	13.0	28.0	18.1
Feb 8	16	15	16	16	16	17	17	18	22	25	S	28	30	31	32	31	31	31	31	29	28	29	27	25	15.0	32.0	24.4
Feb 9	24	25	22	20	20	20	20	20	20	S	18	18	18	20	21	22	21	19	18	19	22	25	25	25	18.0	25.0	21.0
Feb 10	25	26	26	26	27	27	27	27	S	26	26	27	26	27	26	26	26	26	22	19	18	16	18	17	16.0	27.0	24.2
Feb 11	16	16	15	14	15	21	23	S	23	25	25	25	26	25	25	25	25	24	24	25	25	25	25	25	14.0	26.0	22.5
Feb 12	25	25	25	25	24	24	S	21	21	22	23	25	26	29	30	31	30	30	29	27	28	27	27	25	21.0	31.0	26.0
Feb 13	25	22	23	17	14	S	10	9	8	12	24	27	29	30	31	31	31	31	30	30	29	29	28	28	8.0	31.0	23.9
Feb 14	28	28	28	27	S	25	27	26	22	21	27	31	32	33	34	36	36	34	33	33	32	32	33	32	21.0	36.0	30.0
Feb 15	32	32	31	S	29	30	30	30	30	30	29	30	30	30	30	30	30	30	29	29	28	26	27	26	26.0	32.0	29.5
Feb 16	23	24	S	21	26	29	27	26	25	20	26	28	29	30	30	32	32	27	24	23	23	23	21	16	16.0	32.0	25.4
Feb 17	14	S	11	12	12	12	12	10	10	10	11	24	31	34	34	34	35	27	24	20	21	20	16	11	10.0	35.0	19.3
Feb 18	S	9	10	10	8	9	9	8	6	8	10	24	30	36	36	36	33	29	31	28	28	18	18	S	6.0	36.0	19.7
Feb 19	18	20	18	18	29	35	36	34	30	32	34	37	38	39	39	40	40	39	38	38	39	39	S	37	18.0	40.0	33.3
Feb 20	39	39	39	39	39	39	39	39	39	39	39	39	40	41	42	43	42	42	42	41	41	S	38	40	38.0	43.0	40.0
Feb 21	40	40	40	41	41	41	41	41	41	41	41	41	41	42	42	42	42	42	42	42	S	42	42	41	40.0	42.0	41.3
Feb 22	39	41	41	38	42	37	34	44	44	44	45	44	44	43	45	45	44	43	39	S	35	37	36	34	34.0	45.0	40.8
Feb 23	35	33	31	29	29	26	26	21	32	37	38	37	33	36	40	42	41	41	S	25	33	38	44	44	21.0	44.0	34.4
Feb 24	44	43	43	43	44	41	41	40	37	38	40	41	41	41	42	43	43	S	C	C	C	35	38	38	35.0	44.0	40.8
Feb 25	37	36	34	33	38	38	37	36	32	28	35	40	40	40	37	29	S	26	28	31	33	33	34	34	26.0	40.0	34.3
Feb 26	33	32	32	31	30	30	29	29	29	29	30	29	29	29	29	29	S	28	29	28	25	22	21	18	16.0	33.0	27.7
Feb 27	16	15	15	16	15	13	12	11	12	15	22	25	29	32	S	31	33	33	32	31	31	30	30	31	11.0	33.0	23.0
Feb 28	31	30	30	31	31	29	25	24	25	26	27	28	29	S	28	30	30	30	30	29	28	28	28	28	24.0	31.0	28.5
Diurnal Maximum	44	43	43	43	44	41	41	44	44	44	45	44	44	43	45	45	44	43	42	42	41	42	44	44			
Diurnal Average	25.4	24.8	24.0	23.6	24.4	24.8	23.9	23.6	23.3	24.2	26.5	29.2	30.0	31.3	31.7	32.2	31.7	30.0	27.9	26.3	26.3	26.3	25.9	25.8			

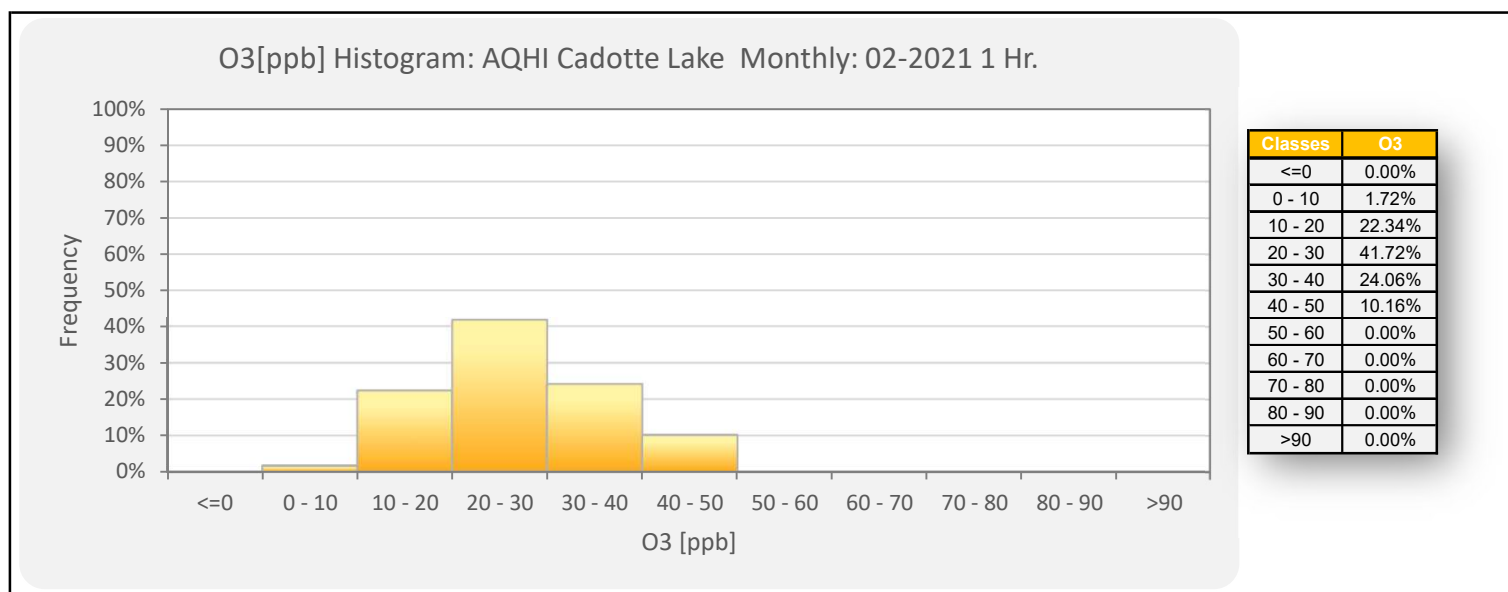
C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance	P Power Failure
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)			

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.

Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

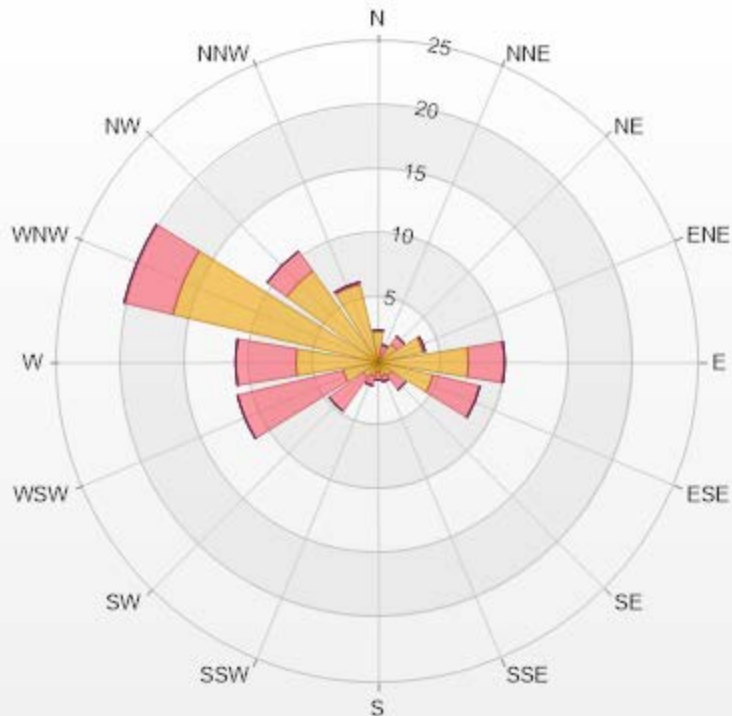
Timeseries Chart of Hourly Average for O3 - AQHI - Cadotte Lake Station





Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-O3[ppb] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.24% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	2.5	0	0	0	0	2.5
NNE	0.31	1.09	0	0	0	1.4
NE	1.72	0.78	0	0	0	2.5
ENE	3.59	0.16	0	0	0	3.75
E	7.03	2.81	0	0	0	9.84
ESE	4.38	3.75	0	0	0	8.13
SE	1.25	1.41	0	0	0	2.66
SSE	1.09	0.47	0	0	0	1.56
S	0.78	0.63	0	0	0	1.41
SSW	1.09	0.78	0	0	0	1.87
SW	1.41	3.28	0	0	0	4.69
WSW	2.81	8.44	0	0	0	11.25
W	6.41	4.69	0	0	0	11.1
WNW	16.41	3.91	0	0	0	20.32
NW	8.75	1.88	0	0	0	10.63
NNW	6.25	0.16	0	0	0	6.41
Summary	65.78	34.24	0	0	0	100



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% Icon Classes (ppb)

66

0-30

34

30-50

0

50-76

0

76-159

0

>159.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

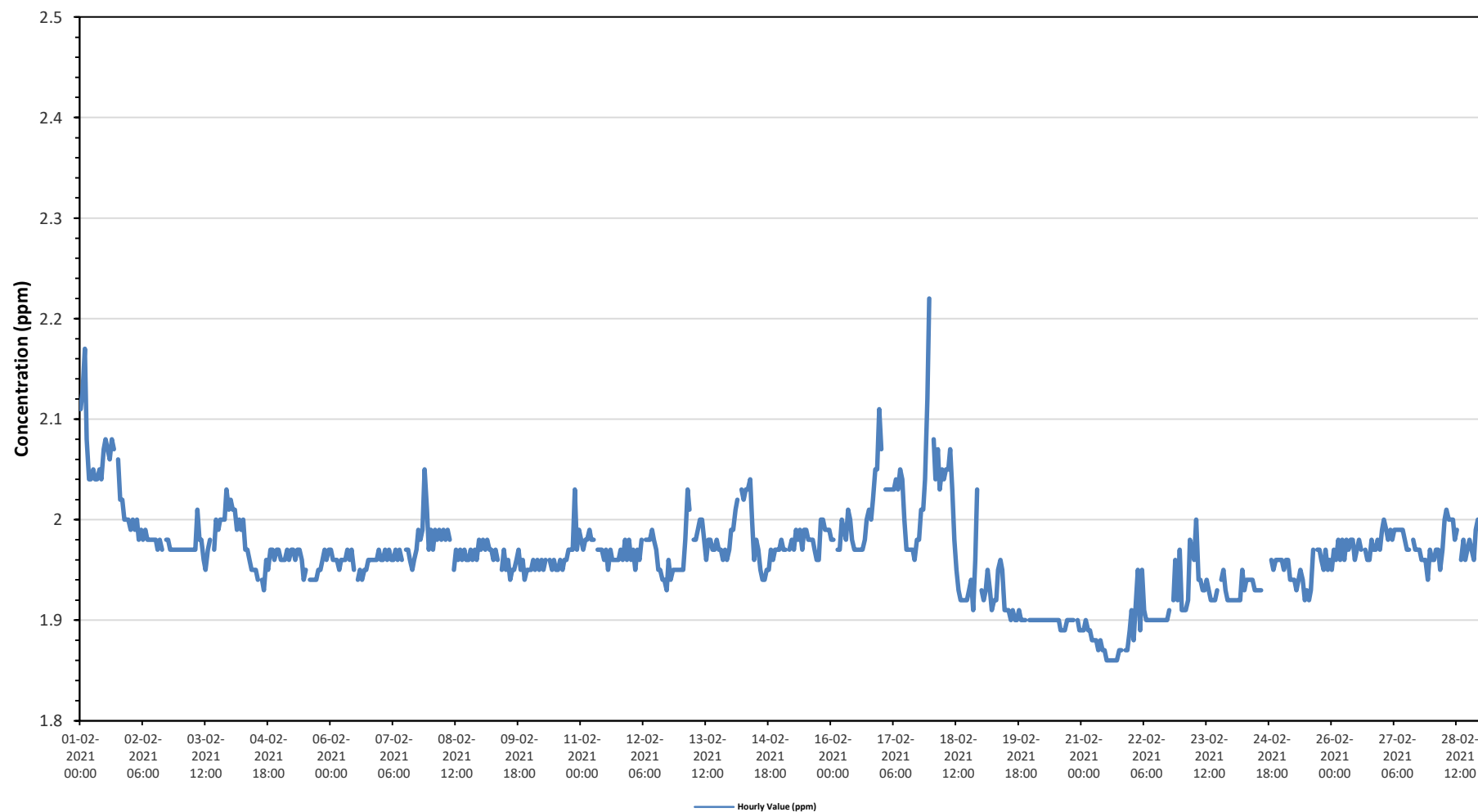
Maximum Hourly Value:	2.22 ppm on February 17 at hour 23	Hours in Service:	672
Maximum Daily Value:	2.06 ppm on February 1	Hours of Data:	640
Minimum Hourly Value:	1.86 ppm on February 21 at hour 12	Hours of Missing Data:	0
Minimum Daily Value:	1.87 ppm on February 21	Hours of Calibration:	32
Monthly Average:	1.96 ppm	Operational Uptime:	100.0

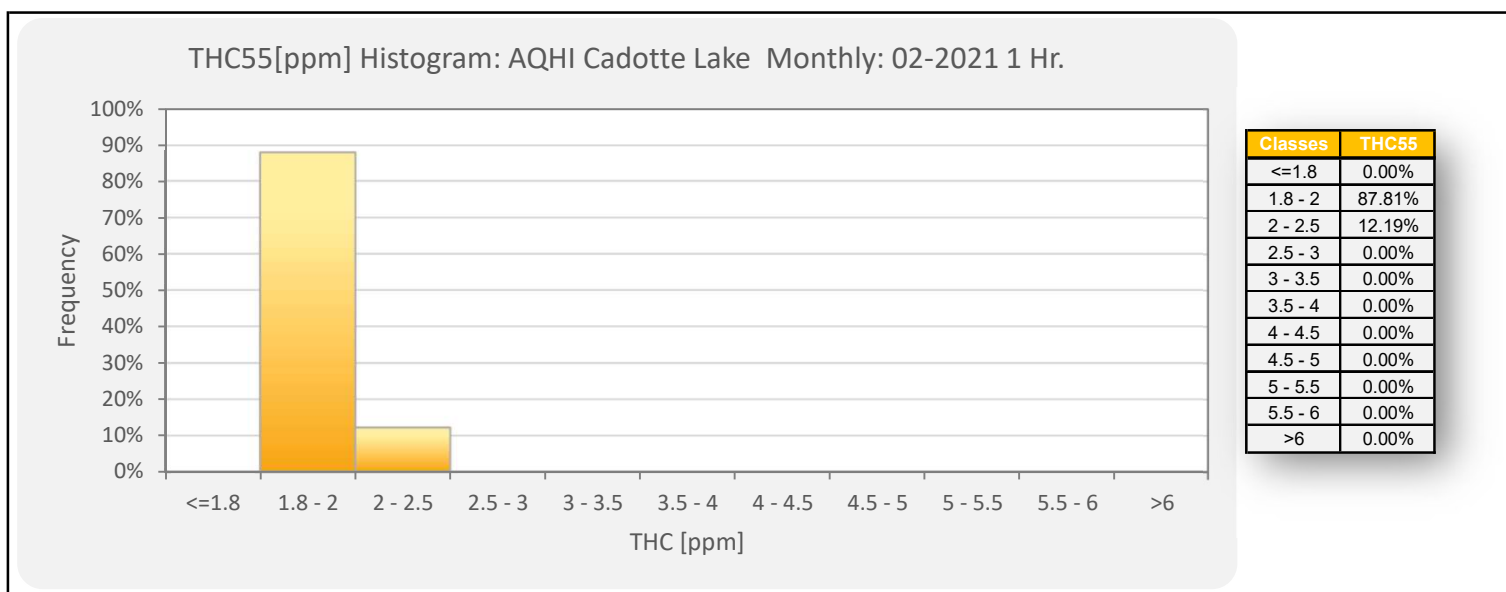
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Feb 1	2.11	2.13	2.17	2.08	2.04	2.04	2.05	2.04	2.04	2.05	2.04	2.07	2.08	2.07	2.06	2.08	2.07	S	2.06	2.02	2.02	2.00	2.00	2.00	2.00	2.00	2.17	2.06
Feb 2	1.99	2.00	1.99	2.00	1.98	1.99	1.98	1.99	1.98	1.98	1.98	1.98	1.98	1.97	1.98	1.97	S	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	2.00	1.98	
Feb 3	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	2.01	1.98	1.98	1.98	1.96	1.95	1.97	1.98	S	1.97	2.00	1.99	2.00	2.00	2.00	2.03	2.01	1.95	1.98	
Feb 4	2.02	2.01	2.01	1.99	2.00	1.99	2.00	1.97	1.97	1.96	1.95	1.95	1.95	1.94	S	1.94	1.93	1.96	1.95	1.97	1.97	1.96	1.97	1.97	1.97	1.93	1.97	
Feb 5	1.96	1.96	1.96	1.97	1.96	1.97	1.97	1.96	1.97	1.96	1.97	1.96	1.94	1.95	S	1.94	1.94	1.94	1.94	1.95	1.95	1.96	1.97	1.96	1.97	1.94	1.96	
Feb 6	1.97	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.97	1.96	1.97	1.95	S	1.94	1.95	1.94	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.97	1.94	1.96	
Feb 7	1.96	1.96	1.97	1.96	1.97	1.96	1.96	1.96	1.97	1.96	1.97	1.96	S	1.97	1.97	1.96	1.95	1.96	1.97	1.99	1.98	1.99	2.05	2.01	1.97	1.95	1.97	
Feb 8	1.99	1.97	1.99	1.98	1.99	1.98	1.99	1.98	1.99	1.98	S	1.95	1.97	1.96	1.97	1.96	1.97	1.96	1.96	1.97	1.96	1.97	1.96	1.96	1.98	1.95	1.97	
Feb 9	1.97	1.98	1.97	1.98	1.97	1.97	1.96	1.97	1.96	S	1.95	1.97	1.95	1.96	1.94	1.95	1.95	1.96	1.97	1.95	1.96	1.94	1.95	1.95	1.94	1.98	1.96	
Feb 10	1.95	1.96	1.95	1.96	1.95	1.96	1.95	1.96	S	1.96	1.95	1.96	1.95	1.95	1.96	1.95	1.96	1.96	1.97	1.97	1.97	2.03	1.97	1.99	1.95	2.03	1.96	
Feb 11	1.98	1.97	1.98	1.98	1.99	1.98	1.98	S	1.97	1.97	1.97	1.96	1.97	1.95	1.97	1.96	1.96	1.96	1.96	1.97	1.96	1.98	1.96	1.98	1.95	1.99	1.97	
Feb 12	1.96	1.97	1.95	1.97	1.96	1.98	S	1.98	1.98	1.98	1.99	1.98	1.97	1.95	1.95	1.94	1.94	1.93	1.96	1.94	1.95	1.95	1.95	1.95	1.93	1.99	1.96	
Feb 13	1.95	1.95	1.98	2.03	2.01	S	1.98	1.98	1.99	2.00	2.00	1.98	1.96	1.98	1.98	1.97	1.97	1.98	1.97	1.97	1.96	1.97	1.96	1.97	1.95	2.03	1.98	
Feb 14	1.99	1.99	2.01	2.02	S	2.03	2.02	2.03	2.03	2.04	2.00	1.96	1.98	1.97	1.95	1.94	1.94	1.95	1.95	1.97	1.96	1.97	1.97	1.97	1.97	1.94	1.98	
Feb 15	1.98	1.97	1.97	S	1.97	1.98	1.97	1.99	1.98	1.99	1.97	1.99	1.99	1.98	1.98	1.98	1.97	1.96	1.96	2.00	2.00	1.99	1.99	1.99	1.96	2.00	1.98	
Feb 16	1.98	1.98	S	1.97	1.97	2.00	1.99	1.98	2.01	2.00	1.98	1.97	1.97	1.97	1.97	1.97	1.98	2.00	2.01	2.00	2.02	2.05	2.05	2.11	1.97	2.11	2.00	
Feb 17	2.07	S	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.05	2.04	2.00	1.97	1.97	1.97	1.97	1.96	1.98	1.98	2.01	2.01	2.04	2.12	2.22	1.96	2.22	2.03	
Feb 18	S	2.08	2.04	2.07	2.03	2.05	2.04	2.05	2.05	2.07	2.03	1.98	1.95	1.93	1.92	1.92	1.92	1.92	1.93	1.94	1.91	1.96	2.03	S	1.91	2.08	1.99	
Feb 19	1.93	1.92	1.93	1.95	1.93	1.91	1.92	1.92	1.95	1.96	1.95	1.91	1.91	1.91	1.90	1.91	1.90	1.90	1.91	1.90	1.90	1.90	1.90	S	1.90	1.90	1.92	
Feb 20	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.90	1.90	1.90	1.90	S	1.90	1.89	1.89	1.90	1.90	
Feb 21	1.89	1.89	1.90	1.89	1.89	1.88	1.88	1.88	1.87	1.88	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.87	S	1.87	1.87	1.89	1.86	1.90	1.87	
Feb 22	1.91	1.88	1.92	1.95	1.89	1.95	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.91	S	1.92	1.96	1.92	1.97	1.88	1.97	1.91	
Feb 23	1.91	1.91	1.91	1.92	1.98	1.97	1.96	2.00	1.94	1.94	1.93	1.93	1.94	1.93	1.92	1.92	1.92	1.93	S	1.94	1.95	1.93	1.92	1.92	1.91	2.00	1.94	
Feb 24	1.92	1.92	1.92	1.92	1.92	1.95	1.93	1.94	1.94	1.94	1.94	1.93	1.93	1.93	C	C	C	C	1.96	1.95	1.96	1.96	1.96	1.96	1.92	1.96	1.94	
Feb 25	1.96	1.95	1.96	1.96	1.94	1.94	1.94	1.93	1.94	1.95	1.94	1.92	1.93	1.92	1.93	1.97	S	1.97	1.96	1.96	1.95	1.97	1.95	1.96	1.92	1.97	1.95	
Feb 26	1.95	1.97	1.96	1.98	1.96	1.98	1.96	1.98	1.97	1.98	1.98	1.96	1.97	1.98	1.97	S	1.97	1.96	1.96	1.98	1.97	1.97	1.98	1.97	1.95	1.98	1.97	
Feb 27	1.99	2.00	1.99	1.98	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.98	1.97	1.97	S	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.94	1.97	1.94	2.00	1.98	
Feb 28	1.96	1.96	1.97	1.97	1.95	1.97	2.00	2.01	2.00	2.00	2.00	1.98	1.99	S	1.96	1.98	1.96	1.97	1.98	1.97	1.96	1.99	2.00	1.99	1.95	2.01	1.98	
Diurnal Maximum	2.11	2.13	2.17	2.08	2.04	2.05	2.05	2.05	2.05	2.07	2.04	2.07	2.08	2.07	2.06	2.08	2.07	2.00	2.06	2.02	2.02	2.05	2.12	2.22				
Diurnal Average	1.97	1.97	1.97	1.98	1.97	1.97	1.97	1.97	1.97	1.98	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.97	1.97	1.98				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

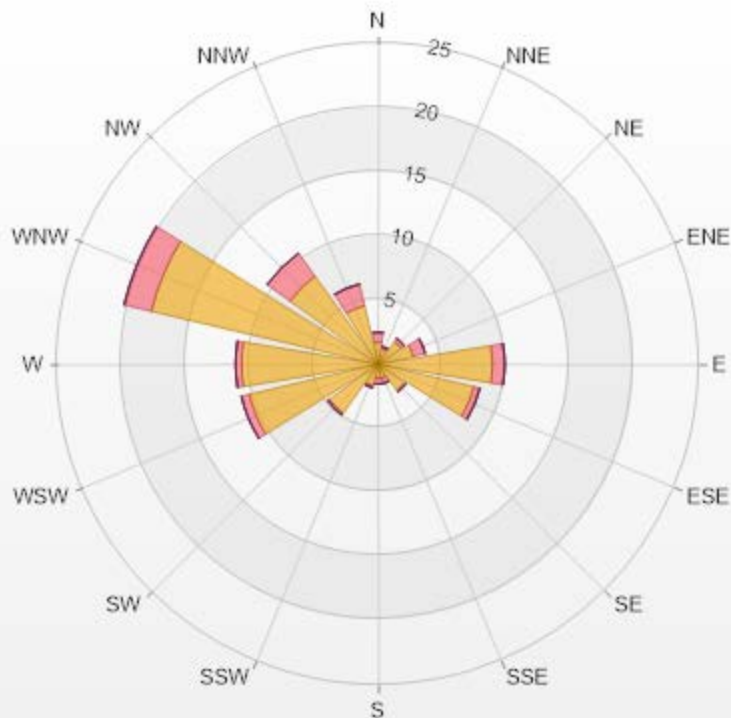
Timeseries Chart of Hourly Average for THC - AQHI - Cadotte Lake Station





Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-THC55[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.24% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	1.72	0.78	0	0	0	2.5
NNE	1.25	0.16	0	0	0	1.41
NE	2.19	0.31	0	0	0	2.5
ENE	2.81	0.94	0	0	0	3.75
E	8.91	0.94	0	0	0	9.85
ESE	7.66	0.47	0	0	0	8.13
SE	2.5	0.16	0	0	0	2.66
SSE	1.09	0.47	0	0	0	1.56
S	1.09	0.47	0	0	0	1.56
SSW	1.72	0.16	0	0	0	1.88
SW	4.69	0.16	0	0	0	4.85
WSW	10.31	0.63	0	0	0	10.94
W	10.63	0.47	0	0	0	11.1
WNW	18.13	2.19	0	0	0	20.32
NW	8.44	2.19	0	0	0	10.63
NNW	4.69	1.72	0	0	0	6.41
Summary	87.83	12.22	0	0	0	100



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% Icon Classes (ppm)

88

0-2

12

2-5

0

5-10

0

10-40

0

>40.0



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

METHANE (CH4) in ppm

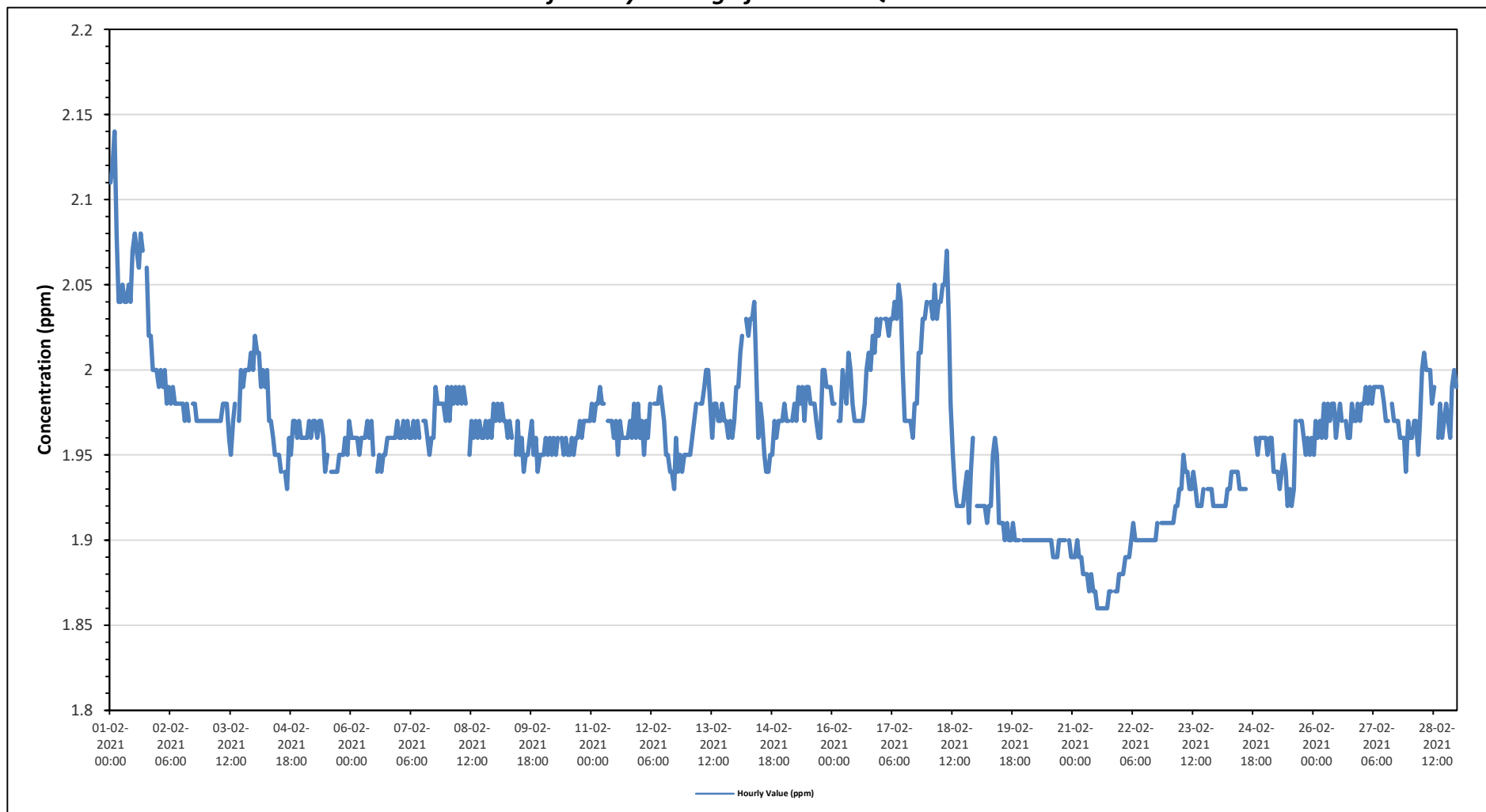
Maximum Hourly Value:	2.14 ppm on February 1 at hour 2	Hours in Service:	672
Maximum Daily Value:	2.06 ppm on February 1	Hours of Data:	640
Minimum Hourly Value:	1.86 ppm on February 21 at hour 12	Hours of Missing Data:	0
Minimum Daily Value:	1.87 ppm on February 21	Hours of Calibration:	32
Monthly Average:	1.96 ppm	Operational Uptime:	100.0

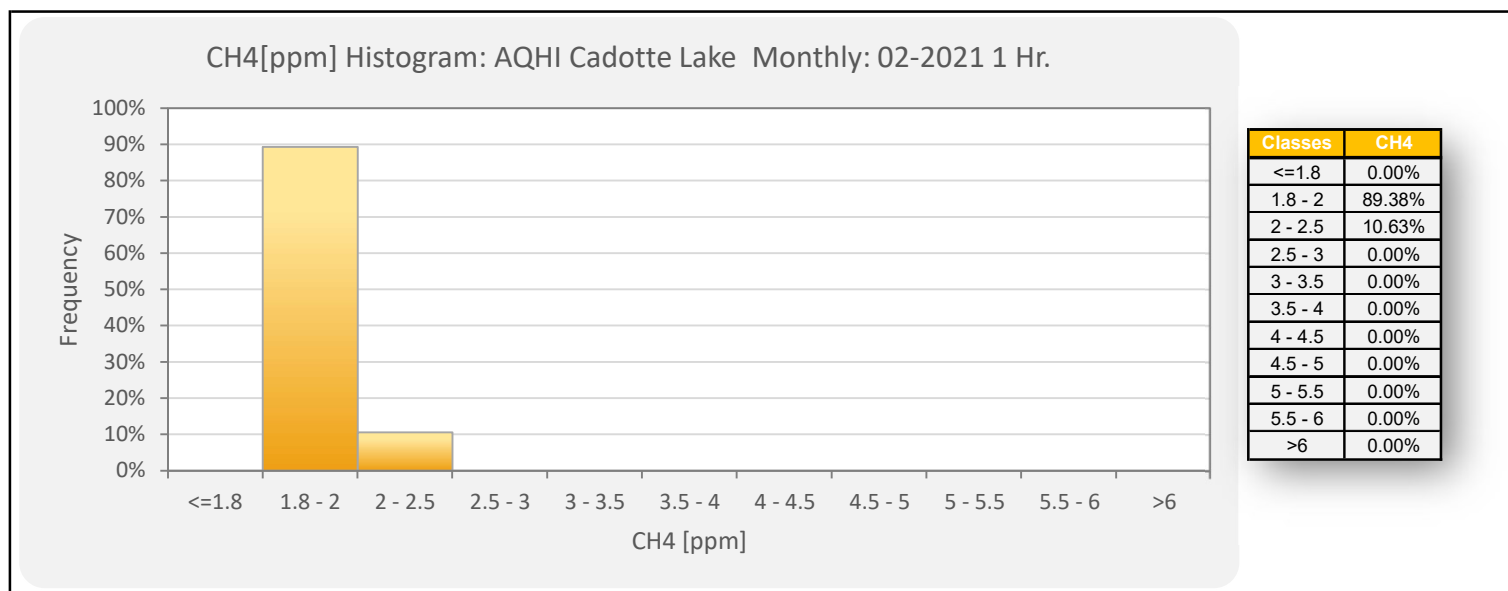
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Feb 1	2.11	2.12	2.14	2.08	2.04	2.04	2.05	2.04	2.04	2.05	2.04	2.07	2.08	2.07	2.06	2.08	2.07	S	2.06	2.02	2.02	2.00	2.00	2.00	2.00	2.00	2.14	2.06
Feb 2	1.99	2.00	1.99	2.00	1.98	1.99	1.98	1.99	1.98	1.98	1.98	1.98	1.98	1.97	1.98	1.97	S	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	2.00	1.98	
Feb 3	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98	1.96	1.95	1.97	1.98	S	1.97	2.00	1.99	2.00	2.00	2.00	2.01	2.00	2.01	1.98	
Feb 4	2.02	2.01	2.01	1.99	2.00	1.99	2.00	1.97	1.97	1.96	1.95	1.95	1.95	1.94	S	1.94	1.93	1.96	1.95	1.97	1.97	1.96	1.97	1.96	1.93	2.02	1.97	
Feb 5	1.96	1.96	1.96	1.97	1.96	1.97	1.97	1.96	1.97	1.97	1.96	1.94	1.95	S	1.94	1.94	1.94	1.94	1.95	1.95	1.95	1.96	1.95	1.97	1.94	1.97	1.96	
Feb 6	1.96	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.97	1.96	1.97	1.95	S	1.94	1.95	1.94	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.97	1.94	1.97	
Feb 7	1.96	1.96	1.97	1.96	1.97	1.96	1.96	1.97	1.96	1.97	1.96	S	1.97	1.97	1.96	1.95	1.96	1.96	1.99	1.98	1.98	1.98	1.98	1.97	1.95	1.99	1.97	
Feb 8	1.99	1.97	1.99	1.98	1.99	1.98	1.99	1.98	1.99	1.98	S	1.95	1.97	1.96	1.97	1.96	1.97	1.96	1.96	1.97	1.96	1.97	1.96	1.98	1.95	1.99	1.97	
Feb 9	1.97	1.98	1.97	1.98	1.97	1.97	1.96	1.97	1.96	S	1.95	1.97	1.95	1.96	1.94	1.95	1.95	1.96	1.97	1.95	1.96	1.94	1.95	1.95	1.94	1.98	1.96	
Feb 10	1.95	1.96	1.95	1.96	1.95	1.96	1.95	1.96	S	1.96	1.95	1.96	1.95	1.95	1.96	1.95	1.96	1.96	1.97	1.96	1.97	1.97	1.97	1.97	1.95	1.97	1.96	
Feb 11	1.98	1.97	1.98	1.98	1.99	1.98	1.98	S	1.97	1.97	1.97	1.96	1.97	1.95	1.97	1.96	1.96	1.96	1.96	1.97	1.96	1.98	1.96	1.98	1.95	1.99	1.97	
Feb 12	1.96	1.97	1.95	1.97	1.96	1.98	S	1.98	1.98	1.98	1.99	1.98	1.97	1.95	1.95	1.94	1.94	1.93	1.96	1.94	1.95	1.94	1.95	1.95	1.93	1.99	1.96	
Feb 13	1.95	1.95	1.96	1.97	1.98	S	1.98	1.98	1.99	2.00	2.00	1.98	1.96	1.98	1.98	1.97	1.97	1.98	1.97	1.97	1.96	1.97	1.96	1.97	1.95	2.00	1.97	
Feb 14	1.99	1.99	2.01	2.02	S	2.03	2.02	2.03	2.03	2.04	2.00	1.96	1.98	1.97	1.95	1.94	1.94	1.95	1.95	1.97	1.96	1.97	1.97	1.97	1.94	2.04	1.98	
Feb 15	1.98	1.97	1.97	S	1.97	1.98	1.97	1.99	1.98	1.99	1.97	1.99	1.99	1.98	1.98	1.98	1.97	1.96	1.96	2.00	2.00	1.99	1.99	1.99	1.96	2.00	1.98	
Feb 16	1.98	1.98	S	1.97	1.97	2.00	1.99	1.98	2.01	2.00	1.98	1.97	1.97	1.97	1.97	1.97	1.98	2.00	2.01	2.00	2.02	2.01	2.03	2.02	1.97	2.03	1.99	
Feb 17	2.03	S	2.03	2.03	2.02	2.03	2.03	2.04	2.03	2.05	2.04	2.00	1.97	1.97	1.97	1.97	1.96	1.98	1.98	2.01	2.01	2.01	2.03	2.04	1.96	2.05	2.01	
Feb 18	S	2.04	2.03	2.05	2.03	2.04	2.04	2.05	2.05	2.07	2.03	1.98	1.95	1.93	1.92	1.92	1.92	1.92	1.93	1.94	1.91	1.94	1.96	S	1.91	2.07	1.98	
Feb 19	1.92	1.92	1.92	1.92	1.92	1.91	1.92	1.92	1.95	1.96	1.95	1.91	1.91	1.91	1.90	1.91	1.90	1.90	1.91	1.90	1.90	1.90	1.90	S	1.90	1.96	1.92	
Feb 20	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.90	1.90	1.90	1.90	S	1.90	1.89	1.89	1.90	
Feb 21	1.89	1.89	1.90	1.89	1.89	1.88	1.88	1.88	1.87	1.88	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.87	S	1.87	1.87	1.88	1.86	1.90	1.87	
Feb 22	1.88	1.88	1.89	1.89	1.89	1.90	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.91	S	1.91	1.91	1.91	1.91	1.88	1.91	1.90	
Feb 23	1.91	1.91	1.91	1.92	1.92	1.93	1.93	1.95	1.94	1.94	1.93	1.93	1.94	1.93	1.92	1.92	1.92	1.93	S	1.93	1.93	1.93	1.92	1.92	1.91	1.95	1.93	
Feb 24	1.92	1.92	1.92	1.92	1.92	1.93	1.93	1.94	1.94	1.94	1.94	1.93	1.93	1.93	1.93	C	C	C	C	1.96	1.95	1.96	1.96	1.96	1.92	1.96	1.94	
Feb 25	1.96	1.95	1.96	1.96	1.94	1.94	1.94	1.93	1.94	1.95	1.94	1.92	1.93	1.92	1.93	1.97	S	1.97	1.97	1.97	1.96	1.95	1.96	1.95	1.92	1.97	1.95	
Feb 26	1.95	1.97	1.96	1.97	1.96	1.98	1.96	1.98	1.97	1.98	1.98	1.96	1.97	1.98	1.97	S	1.97	1.96	1.96	1.98	1.97	1.97	1.98	1.97	1.95	1.98	1.97	
Feb 27	1.98	1.98	1.99	1.98	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.98	1.97	1.97	S	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.94	1.97	1.94	1.99	1.98	
Feb 28	1.96	1.96	1.97	1.97	1.95	1.97	2.00	2.01	2.00	2.00	2.00	1.98	1.99	S	1.96	1.98	1.96	1.97	1.98	1.97	1.96	1.99	2.00	1.99	1.95	2.01	1.98	
Diurnal Maximum	2.11	2.12	2.14	2.08	2.04	2.04	2.05	2.05	2.05	2.07	2.04	2.07	2.08	2.07	2.06	2.08	2.07	2.00	2.06	2.02	2.02	2.03	2.03	2.04				
Diurnal Average	1.96	1.96	1.97	1.97	1.96	1.97	1.97	1.97	1.97	1.98	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.96				

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance
X	InValid Data (Equipment Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)	P	Power Failure

Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

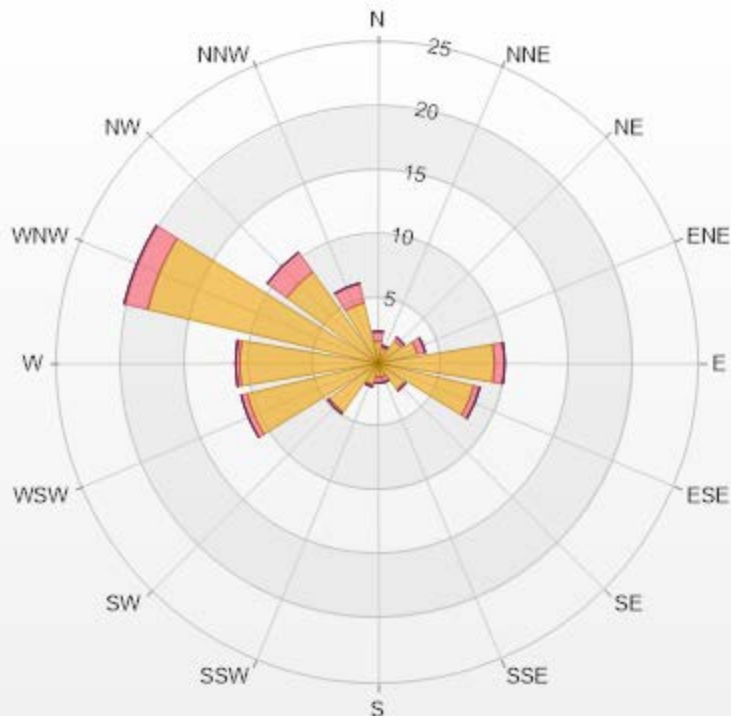
Timeseries Chart of Hourly Average for CH4 - AQHI - Cadotte Lake Station





Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-CH4[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.24% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	1.72	0.78	0	0	0	2.5
NNE	1.25	0.16	0	0	0	1.41
NE	2.19	0.31	0	0	0	2.5
ENE	3.13	0.63	0	0	0	3.76
E	9.06	0.78	0	0	0	9.84
ESE	7.66	0.47	0	0	0	8.13
SE	2.5	0.16	0	0	0	2.66
SSE	1.09	0.47	0	0	0	1.56
S	1.09	0.47	0	0	0	1.56
SSW	1.72	0.16	0	0	0	1.88
SW	4.69	0.16	0	0	0	4.85
WSW	10.47	0.47	0	0	0	10.94
W	10.78	0.31	0	0	0	11.09
WNW	18.44	1.88	0	0	0	20.32
NW	8.75	1.88	0	0	0	10.63
NNW	4.84	1.56	0	0	0	6.4
Summary	89.38	10.65	0	0	0	100



PRAMP-202102

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% Icon Classes (ppm)

89 0-2

11 2-5

0 5-10

0 10-20

0 >20.0



PEACE RIVER AREA MONITORING PROGRAM

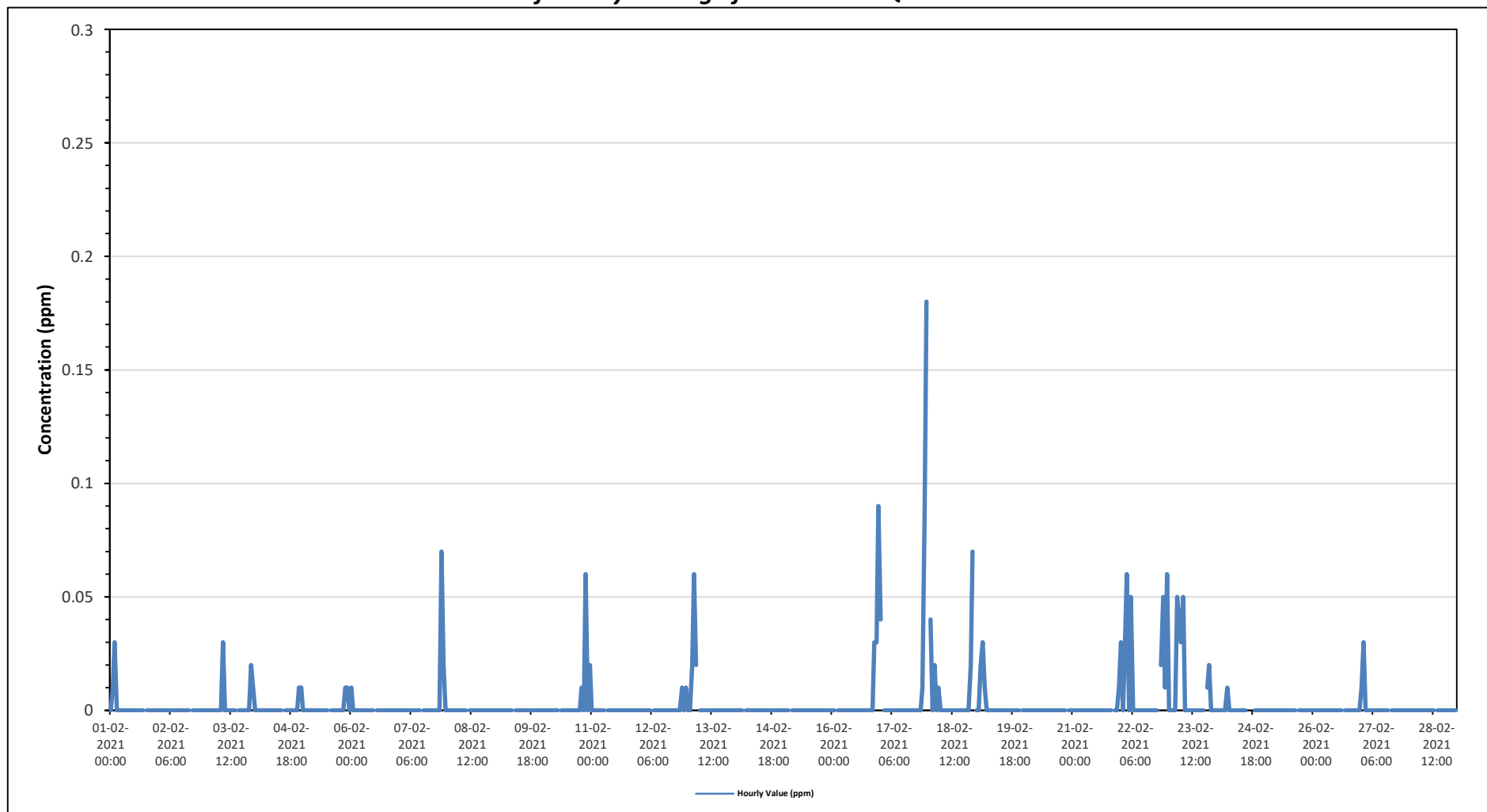
AQHI - Cadotte Lake Station - February 2021

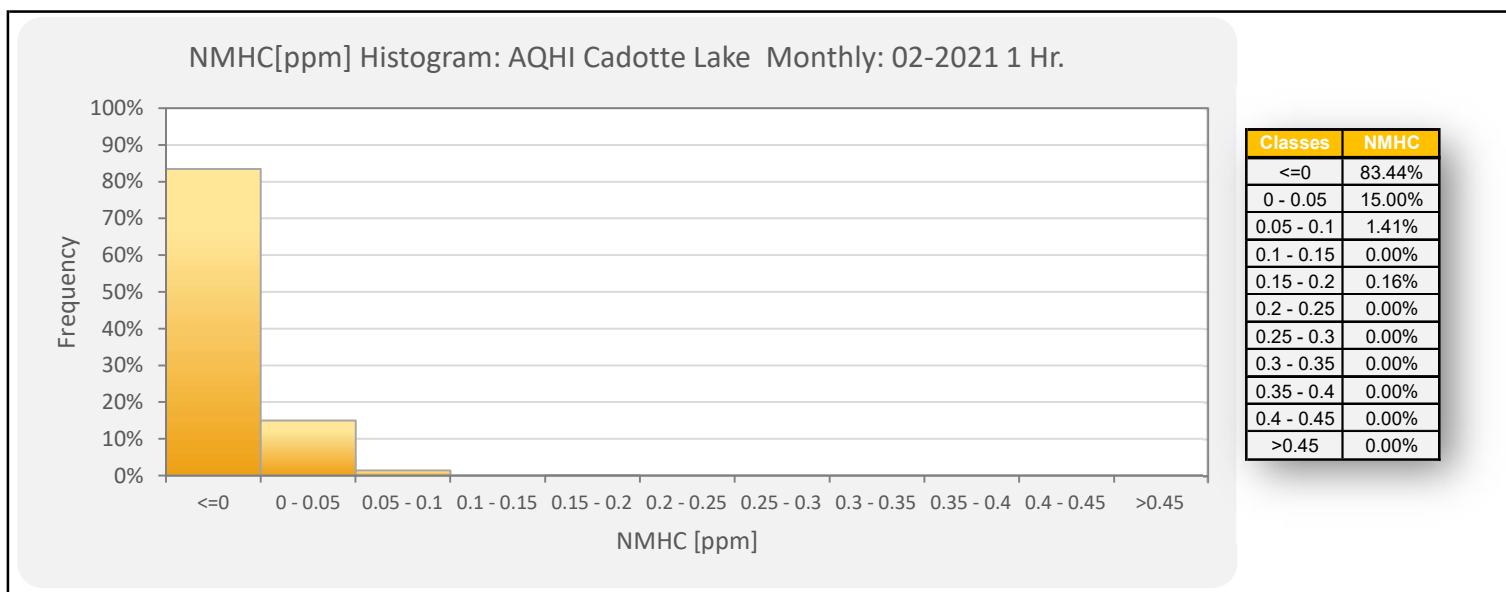
Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

Maximum Hourly Value:										0.18 ppm on February 17 at hour 23										Hours in Service:										672									
Maximum Daily Value:										0.01 ppm on February 17										Hours of Data:										640									
Minimum Hourly Value:										0.00 ppm on February 1 at hour 0										Hours of Missing Data:										0									
Minimum Daily Value:										0.00 ppm on February 2										Hours of Calibration:										32									
Monthly Average:										0.00 ppm										Operational Uptime:										100.0									
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23															
Feb 1	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Feb 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Feb 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.03	0.00												
Feb 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.00												
Feb 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00												
Feb 6	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00												
Feb 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.02	0.00	0.00	0.07	0.00												
Feb 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Feb 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Feb 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.00	0.02	0.00	0.06	0.00												
Feb 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Feb 12	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00												
Feb 13	0.00	0.00	0.02	0.06	0.02	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00												
Feb 14	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Feb 15	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Feb 16	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.09	0.00	0.09	0.01												
Feb 17	0.04	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.09	0.18	0.00	0.18	0.01												
Feb 18	S	0.04	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.07	S	0.00	0.07	0.01												
Feb 19	0.00	0.00	0.02	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.03	0.00												
Feb 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00												
Feb 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.01	0.00	0.01	0.00												
Feb 22	0.03	0.00	0.03	0.06	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.02	0.05	0.01	0.06	0.00	0.06	0.01												
Feb 23	0.00	0.00	0.00	0.00	0.05	0.04	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.01	0.02	0.00	0.00	0.00	0.00	0.05	0.01												
Feb 24	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00												
Feb 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Feb 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Feb 27	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00												
Feb 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00												
Diurnal Maximum	0.04	0.04	0.03	0.06	0.05	0.05	0.03	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.07	0.09	0.18															
Diurnal Average	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01															
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																						
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure														
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																														
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																							
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																							

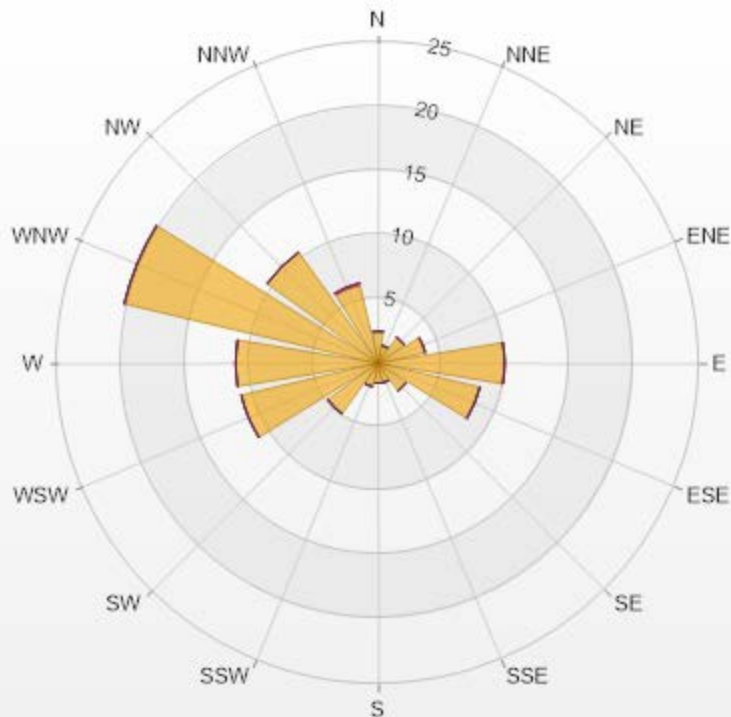
Timeseries Chart of Hourly Average for NMHC - AQHI - Cadotte Lake Station





Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NMHC[ppm] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 95.24% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-0.9	0.9-2	>2.0	Total
N	2.5	0	0	0	0	2.5
NNE	1.41	0	0	0	0	1.41
NE	2.5	0	0	0	0	2.5
ENE	3.75	0	0	0	0	3.75
E	9.84	0	0	0	0	9.84
ESE	8.13	0	0	0	0	8.13
SE	2.66	0	0	0	0	2.66
SSE	1.56	0	0	0	0	1.56
S	1.56	0	0	0	0	1.56
SSW	1.88	0	0	0	0	1.88
SW	4.84	0	0	0	0	4.84
WSW	10.94	0	0	0	0	10.94
W	11.09	0	0	0	0	11.09
WNW	20.31	0	0	0	0	20.31
NW	10.63	0	0	0	0	10.63
NNW	6.25	0.16	0	0	0	6.41
Summary	100	0.16	0	0	0	100



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% Icon Classes (ppm)

100 0-0.1

0 0.1-0.3

0 0.3-0.9

0 0.9-2

0 >2.0



PEACE RIVER AREA MONITORING PROGRAM

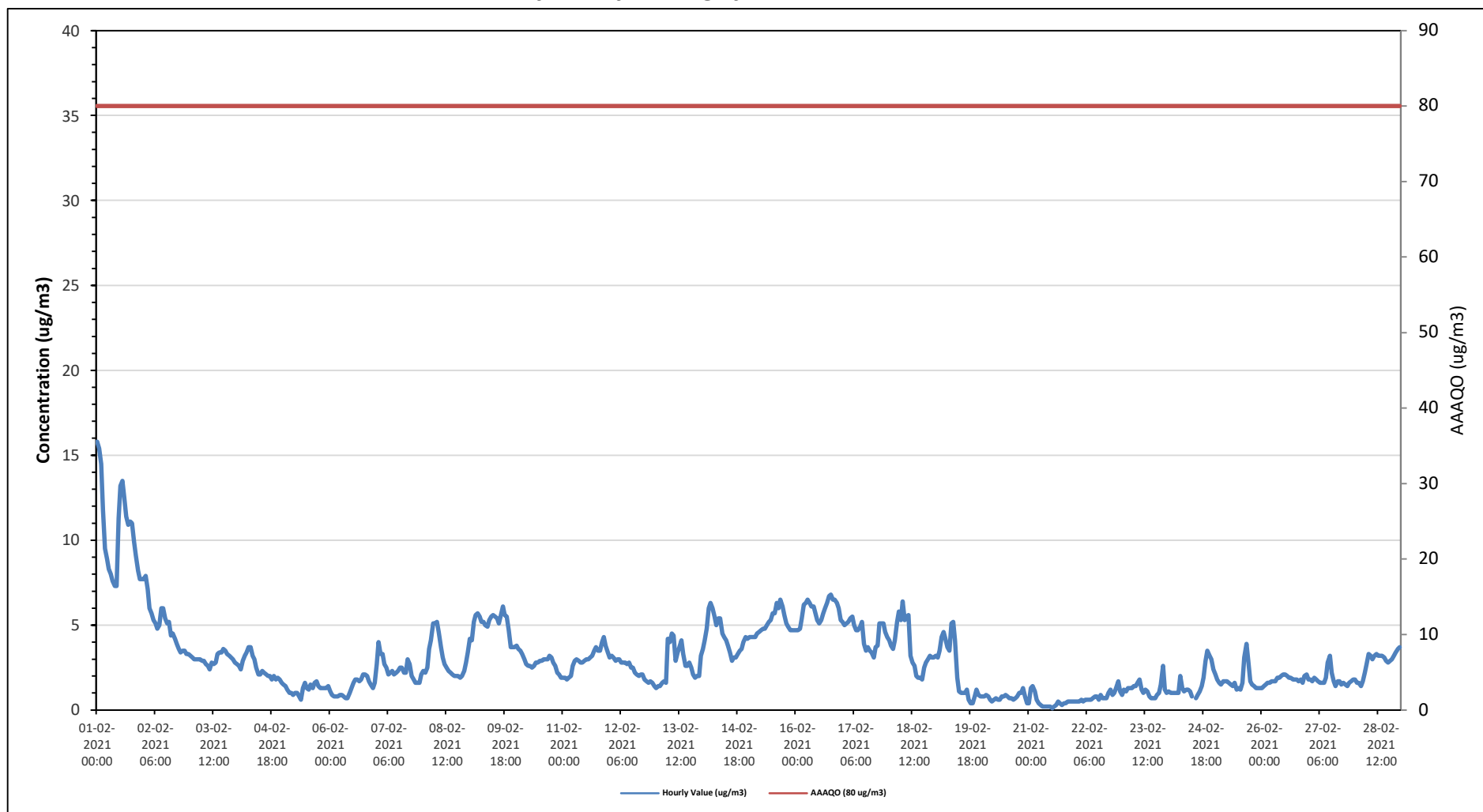
AQHI - Cadotte Lake Station - February 2021

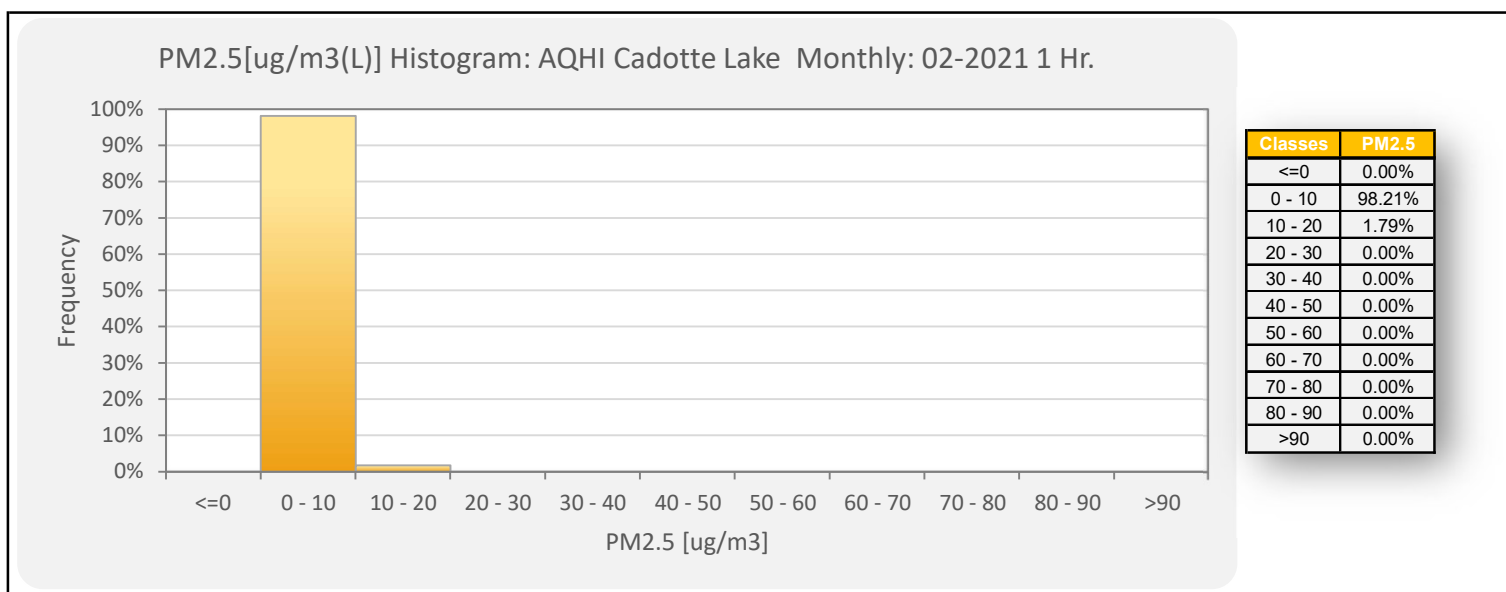
Summary of Hourly Averages

PARTICULATE MATTER 2.5 (PM_{2.5}) in µg/m³

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 80 µg/m ³ , 24-Hour 29 µg/m ³																												
Number of 1-Hour Exceedances: 0														Number of 24-Hour Exceedances: 0														
Maximum Hourly Value: 15.8 µg/m ³ on February 1 at hour 0														Hours in Service: 672														
Maximum Daily Value: 10.5 µg/m ³ on February 1														Hours of Data: 671														
Minimum Hourly Value: 0.1 µg/m ³ on February 21 at hour 12														Hours of Missing Data: 0														
Minimum Daily Value: 0.5 µg/m ³ on February 21														Hours of Calibration: 1														
Monthly Average: 3.0 µg/m ³														Operational Uptime: 100.0														
Day	Hourly Period Starting at (MST)																									Daily Minimum	Daily Maximum	Daily Average
Feb 1	15.8	15.4	14.5	11.8	9.5	8.9	8.3	8	7.6	7.3	7.3	11.3	13.2	13.5	12.4	11.4	10.9	11.1	11	9.9	9.1	8.2	7.7	7.7	7.3	15.8	10.5	
Feb 2	8	8	7	6	6	5	5	5	5	6	6	5	5	5	4	5	4	4	4	3	4	4	3	3	3.3	7.9	5.0	
Feb 3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	4	4	3	3	3	3	3	2.4	3.6	3.0	
Feb 4	3	3	2	3	3	3	4	4	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	1.6	3.7	2.5	
Feb 5	2	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	2	2	1	1	1	1	1	1	0.6	1.7	1.2	
Feb 6	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	1	2	0.7	2.1	1.3	
Feb 7	3	4	3	3	3	3	2	2	2	2	2	2	3	3	2	2	3	3	2	2	2	2	2	2	1.6	4.0	2.4	
Feb 8	2	2	3	4	4	5	5	5	5	4	3	3	3	2	2	2	2	2	2	2	2	2	3	3	1.9	5.2	3.0	
Feb 9	4	4	5	6	6	6	5	5	5	5	5	6	6	6	5	5	6	6	6	6	5	4	4	4	3.7	6.1	5.1	
Feb 10	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	1.9	3.8	2.9	
Feb 11	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	3	1.8	4.3	3.0	
Feb 12	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	1	1.4	3.2	2.4	
Feb 13	1	1	1	2	2	2	4	4	5	4	3	3	4	4	3	3	3	3	3	2	2	2	2	3	1.3	4.5	2.7	
Feb 14	4	4	5	6	6	6	6	5	5	5	5	4	4	4	3	3	3	3	3	4	4	4	4	4	2.9	6.3	4.3	
Feb 15	4	4	4	4	5	5	5	5	5	5	5	5	6	6	6	6	7	6	6	5	5	5	5	5	4.3	6.5	5.1	
Feb 16	5	5	5	5	6	6	7	6	6	6	6	5	5	5	6	6	6	7	7	7	7	6	6	5	4.7	6.8	5.9	
Feb 17	5	5	5	5	5	6	5	5	5	5	5	4	4	4	4	3	3	4	4	5	5	5	5	4	3.1	5.5	4.5	
Feb 18	4	4	4	4	5	6	5	6	5	6	6	3	3	3	2	2	2	2	3	3	3	3	3	3	1.8	6.4	3.7	
Feb 19	3	3	4	4	5	4	4	4	5	5	4	2	1	1	1	1	1	1	0	0	1	1	1	1	0.4	5.2	2.4	
Feb 20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.4	1.3	0.8	
Feb 21	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	1	0.1	1.4	0.5	
Feb 22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	0.5	1.7	0.8	
Feb 23	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	2	3	1	1	0.7	2.6	1.2	
Feb 24	1	1	1	1	1	1	2	1	1	1	1	1	1	C	1	1	1	1	2	3	4	3	3	2	0.7	3.5	1.6	
Feb 25	2	2	2	2	2	2	2	2	2	2	1	2	1	1	1	2	3	4	3	2	2	1	1	1	1.2	3.9	1.7	
Feb 26	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1.3	2.1	1.8	
Feb 27	2	2	2	2	2	2	2	2	2	2	2	3	3	2	2	1	2	2	2	2	2	1	2	2	1.4	3.2	1.8	
Feb 28	2	2	2	1	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	1.4	3.7	2.8	
Diurnal Maximum	16	15	15	12	10	9	8	8	8	7	7	11	13	14	12	11	11	11	11	10	9	8	8	8				
Diurnal Average	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.0	3.0	3.1	2.9	2.8	2.9	2.9	2.8	2.8	2.8	2.8	2.7	2.7				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance											
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure			
X	InValid Data (Equipment Malfunction/Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

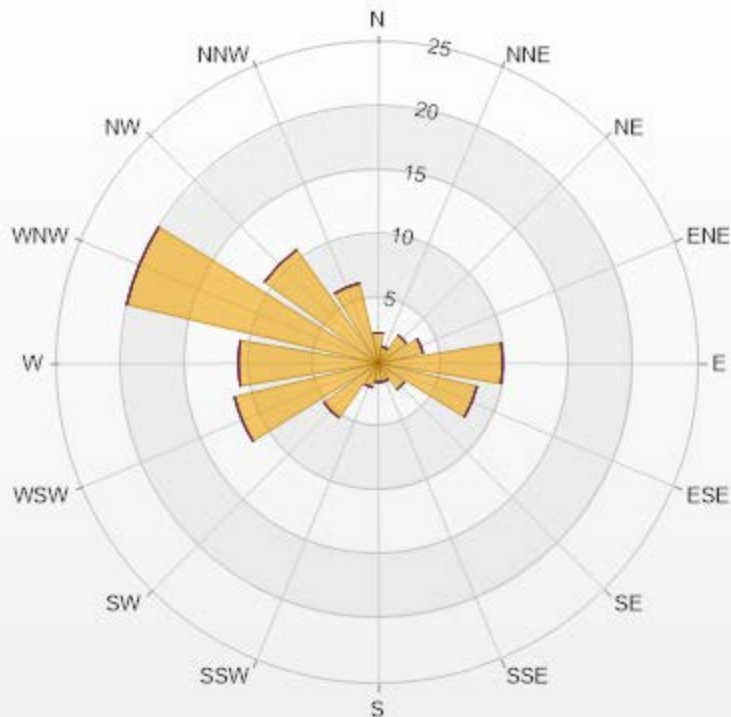
Timeseries Chart of Hourly Average for PM2.5 - AQHI - Cadotte Lake Station





Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-PM2.5[ug/m3(L)] Monthly: 02-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 0.00% Valid Data: 99.85% Calm Avg: 0.00 [ug/m3(L)]

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	2.38	0	0	0	0	2.38
NNE	1.34	0	0	0	0	1.34
NE	2.68	0	0	0	0	2.68
ENE	3.58	0	0	0	0	3.58
E	9.69	0	0	0	0	9.69
ESE	7.9	0	0	0	0	7.9
SE	2.53	0	0	0	0	2.53
SSE	1.49	0	0	0	0	1.49
S	1.49	0	0	0	0	1.49
SSW	1.94	0	0	0	0	1.94
SW	5.22	0	0	0	0	5.22
WSW	11.48	0	0	0	0	11.48
W	10.88	0	0	0	0	10.88
WNW	20.12	0	0	0	0	20.12
NW	10.88	0	0	0	0	10.88
NNW	6.41	0	0	0	0	6.41
Summary	100	0	0	0	0	100



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% Icon Classes (ug/m3(L))

100 0-50

0 50-80

0 80-120

0 120-240

0 >240.0



PEACE RIVER AREA MONITORING PROGRAM

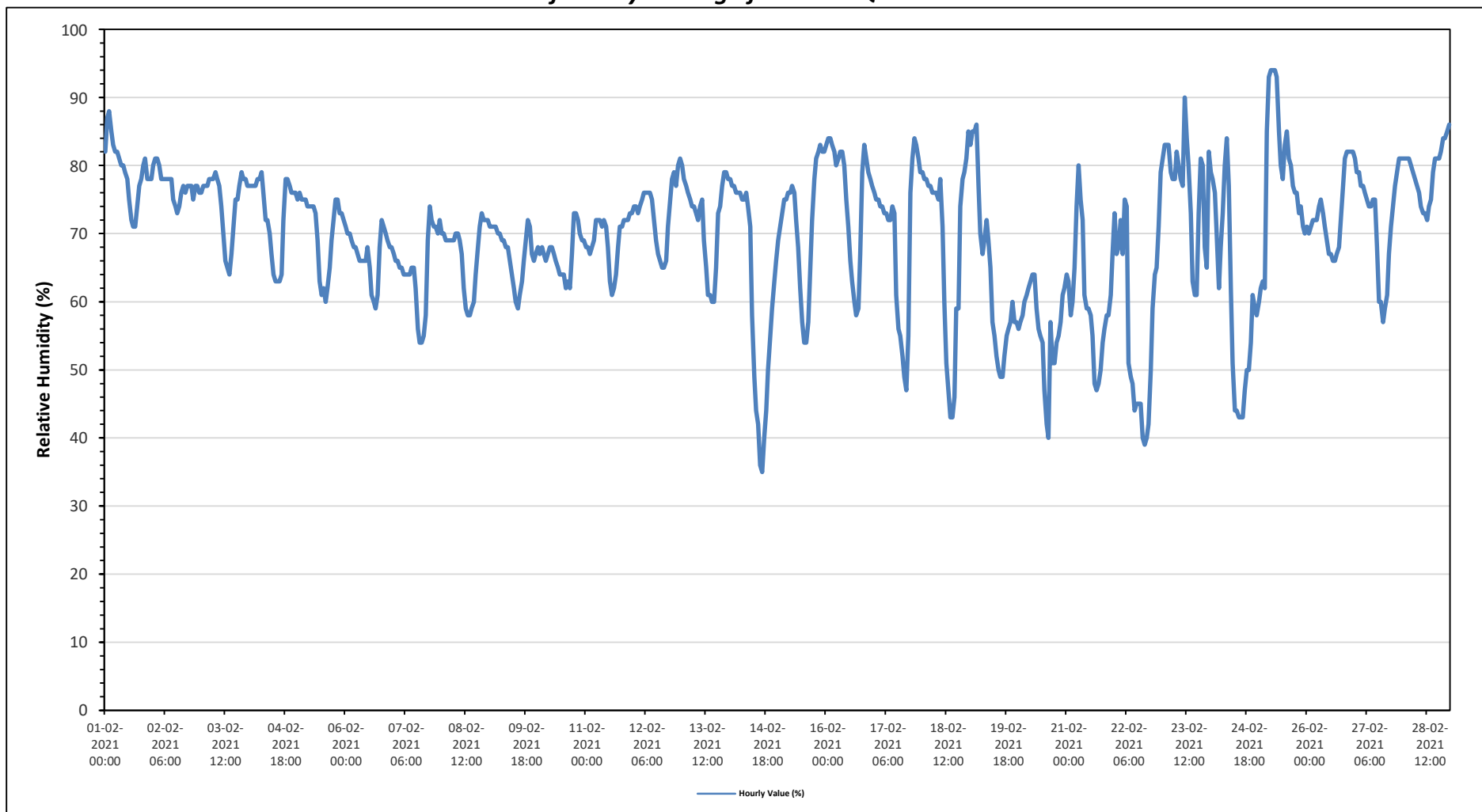
AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:					94	%	on February 25 at hour 6										Hours in Service:					672							
Maximum Daily Value:					79.2	%	on February 1										Hours of Data:					672							
Minimum Hourly Value:					35	%	on February 14 at hour 16										Hours of Missing Data:					0							
Minimum Daily Value:					56.1	%	on February 20										Hours of Calibration:					0							
Monthly Average:					69.5	%											Operational Uptime:					100.0							
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average		
Feb 1	82	87	88	85	83	82	82	81	80	80	79	78	75	72	71	71	74	77	78	80	81	78	78	78	71	88	79.2		
Feb 2	80	81	81	80	78	78	78	78	78	78	75	74	73	74	76	77	76	77	77	75	77	77	77	76	73	81	77.1		
Feb 3	76	77	77	77	78	78	78	79	78	77	74	70	66	65	64	67	71	75	75	77	79	78	78	77	64	79	74.6		
Feb 4	77	77	77	77	78	78	79	76	72	72	70	67	64	63	63	63	64	72	78	78	77	76	76	76	63	79	72.9		
Feb 5	75	76	75	75	75	74	74	74	74	73	69	63	61	62	60	62	65	69	72	75	75	73	73	72	60	76	70.7		
Feb 6	71	70	70	69	68	68	67	66	66	66	66	68	65	61	60	59	61	68	72	71	70	69	68	68	59	72	67.0		
Feb 7	67	66	66	65	65	64	64	64	64	65	65	62	56	54	54	55	58	69	74	72	71	71	70	72	54	74	64.7		
Feb 8	70	70	69	69	69	69	69	70	70	69	67	62	59	58	58	59	60	64	68	71	73	72	72	72	58	73	67.0		
Feb 9	71	71	71	71	70	70	69	69	68	68	66	64	62	60	59	61	63	66	69	72	71	67	66	67	59	72	67.1		
Feb 10	68	67	68	67	66	67	68	68	67	66	65	64	64	64	62	63	62	67	73	73	72	70	69	69	62	73	67.0		
Feb 11	68	68	67	68	69	72	72	72	71	72	71	68	63	61	62	64	68	71	71	72	72	72	73	73	61	73	69.2		
Feb 12	74	74	73	74	75	76	76	76	76	75	72	69	67	66	65	65	66	71	75	78	79	77	80	81	65	81	73.3		
Feb 13	80	78	77	76	75	74	74	73	72	74	75	69	65	61	61	60	60	65	73	74	77	79	79	78	60	80	72.0		
Feb 14	78	77	77	76	76	76	75	75	76	74	71	58	49	44	42	36	35	40	44	50	55	59	63	66	35	78	61.3		
Feb 15	69	71	73	75	75	76	76	77	76	72	68	62	57	54	54	57	65	72	78	81	82	83	82	82	54	83	71.5		
Feb 16	83	84	84	83	82	80	81	82	82	80	75	71	66	63	60	58	59	67	79	83	81	79	78	77	58	84	75.7		
Feb 17	76	75	75	74	74	73	73	72	72	74	73	61	56	55	52	49	47	55	76	81	84	83	81	79	47	84	69.6		
Feb 18	79	78	78	77	77	76	76	76	75	78	71	60	51	47	43	43	46	59	59	74	78	79	81	85	43	85	68.6		
Feb 19	83	85	85	86	77	70	67	69	72	69	65	57	55	52	50	49	49	52	55	56	57	60	57	57	49	86	63.9		
Feb 20	56	57	58	60	61	62	63	64	59	56	55	54	47	42	40	57	51	51	54	55	57	61	62	40	64	56.1			
Feb 21	64	63	58	60	65	74	80	75	72	61	59	59	58	55	48	47	48	50	54	56	58	58	61	67	47	80	60.4		
Feb 22	73	67	68	72	67	75	74	51	49	48	44	45	45	45	40	39	40	42	50	59	64	65	71	79	39	79	57.2		
Feb 23	81	83	83	83	79	78	78	82	80	78	77	90	84	80	73	63	61	61	73	81	80	68	65	82	61	90	76.8		
Feb 24	79	78	76	70	62	68	73	80	84	77	62	51	44	44	43	43	43	47	50	50	54	61	59	58	43	84	60.7		
Feb 25	60	62	63	62	85	93	94	94	94	93	85	80	78	83	85	81	80	77	76	76	73	74	71	70	60	94	78.7		
Feb 26	71	70	71	72	72	72	74	75	73	71	69	67	67	66	66	67	68	72	77	81	82	82	82	82	66	82	72.9		
Feb 27	81	79	79	77	77	76	75	74	74	75	75	68	60	60	57	59	61	67	71	74	77	79	81	81	57	81	72.4		
Feb 28	81	81	81	81	80	79	78	77	76	74	73	73	72	74	75	79	81	81	81	81	82	84	84	85	86	72	86	79.1	
Diurnal Maximum	83	87	88	86	85	93	94	94	94	93	85	90	84	83	85	81	81	81	81	83	84	84	85	86					
Diurnal Average	74.0	74.0	73.9	73.6	73.5	74.2	74.5	73.9	73.4	72.1	69.2	65.5	62.0	60.4	58.8	58.4	60.3	64.4	68.9	71.7	72.7	72.5	72.8	74.0					
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance												
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure				
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																				
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																													
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																													

Timeseries Chart of Hourly Average for RH - AQHI - Cadotte Lake Station





PEACE RIVER AREA MONITORING PROGRAM

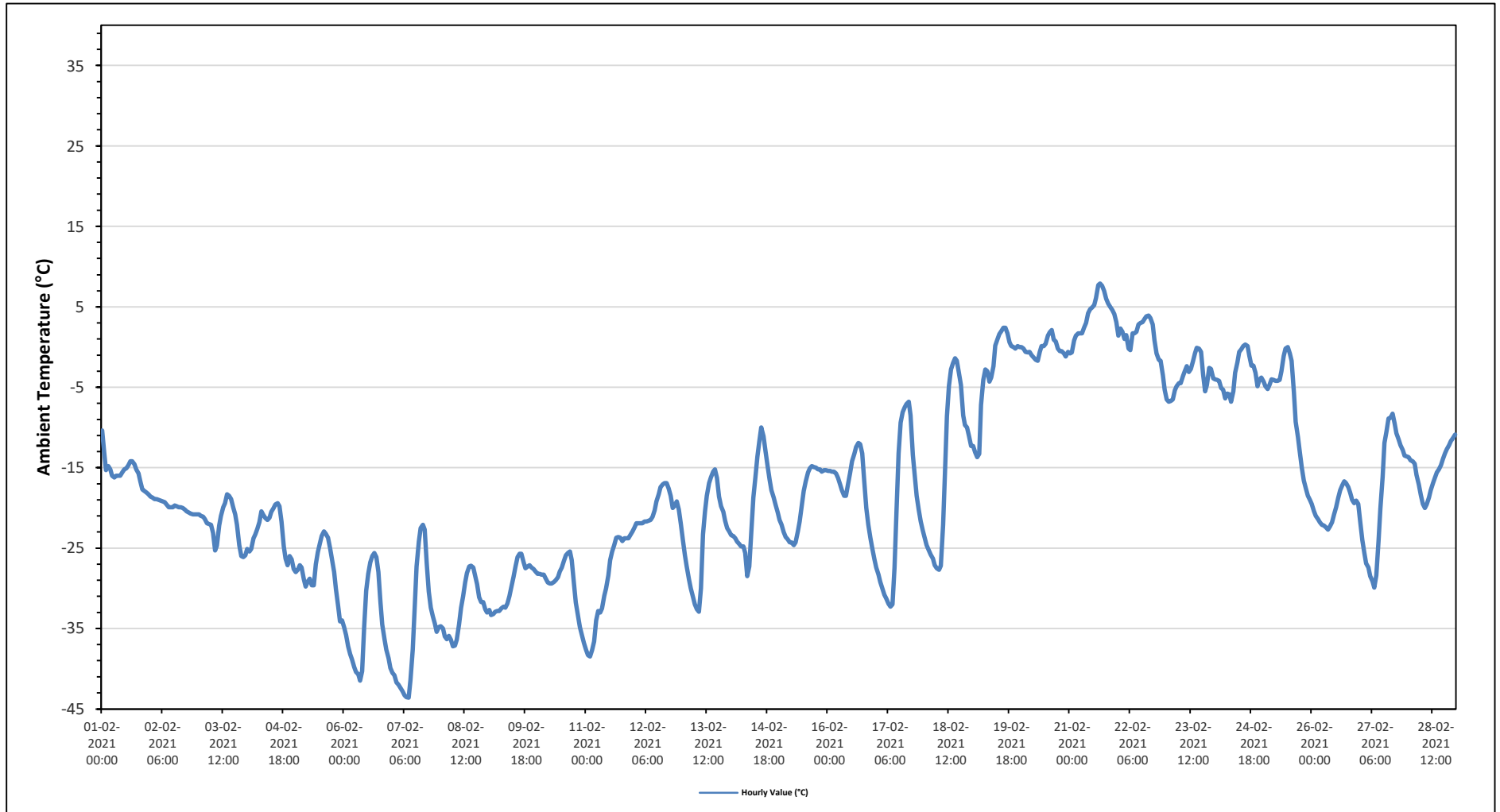
AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

Maximum Hourly Value:		7.9	°C	on February 21 at hour 15												Hours in Service:		672									
Maximum Daily Value:		3.9	°C	on February 21												Hours of Data:		672									
Minimum Hourly Value:		-43.6	°C	on February 7 at hour 8												Hours of Missing Data:		0									
Minimum Daily Value:		-34.9	°C	on February 7												Hours of Calibration:		0									
Monthly Average:		-17.8	°C													Operational Uptime:		100.0									
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	-10.4	-13.1	-15.3	-14.8	-15.2	-16	-16.2	-16	-16	-16	-15.6	-15.2	-15.1	-14.7	-14.2	-14.2	-14.6	-15.2	-15.7	-16.7	-17.7	-17.9	-18.1	-18.3	-18.3	-10.4	-15.5
Feb 2	-18.6	-18.7	-18.9	-18.9	-19	-19.1	-19.2	-19.3	-19.6	-19.9	-19.9	-19.9	-19.7	-19.8	-19.9	-19.9	-20	-20.2	-20.4	-20.6	-20.7	-20.8	-20.8	-20.8	-20.8	-18.6	-19.8
Feb 3	-20.8	-21	-21.1	-21.4	-21.9	-22	-22.1	-23.1	-25.3	-24.7	-22.2	-21	-19.9	-19.4	-18.3	-18.5	-18.9	-19.9	-20.8	-22.1	-24.6	-26	-26.1	-25.9	-26.1	-18.3	-22.0
Feb 4	-25.1	-25.4	-25.1	-23.8	-23.3	-22.6	-21.8	-20.4	-20.9	-21.3	-21.5	-21.2	-20.5	-20	-19.6	-19.4	-19.8	-21.7	-24.8	-26.3	-27.1	-26	-26.4	-27.6	-27.6	-19.4	-23.0
Feb 5	-28	-27.7	-27.1	-27.4	-28.9	-29.8	-29.1	-28.8	-29.6	-29.6	-27	-25.5	-24.4	-23.5	-22.9	-23.2	-23.7	-25	-26.3	-28	-30.1	-32.3	-34.1	-34	-34.1	-22.9	-27.8
Feb 6	-34.8	-35.8	-37.2	-38.2	-38.8	-39.8	-40.4	-40.7	-41.5	-40.3	-34.8	-30.3	-28.2	-26.8	-26	-25.6	-26.1	-28	-31.7	-34.5	-36.3	-37.6	-38.7	-39.9	-41.5	-25.6	-34.7
Feb 7	-40.5	-40.8	-41.7	-42	-42.4	-42.8	-43.3	-43.5	-43.6	-41.4	-37.6	-32.2	-27.3	-24.2	-22.5	-22.1	-22.7	-26.9	-30.4	-32.4	-33.5	-34.4	-35.4	-34.8	-43.6	-22.1	-34.9
Feb 8	-34.7	-35	-36	-36.3	-35.9	-36.4	-37.2	-37.1	-36.4	-34.5	-32.4	-31	-29.3	-28.1	-27.3	-27.2	-27.4	-28.4	-29.5	-31.1	-31.7	-31.7	-32.6	-33	-37.2	-27.2	-32.5
Feb 9	-32.7	-33.3	-33.2	-32.9	-32.8	-32.8	-32.5	-32.3	-32.4	-31.9	-31	-29.8	-28.6	-27.3	-26.1	-25.7	-25.7	-26.8	-27.5	-27.3	-27.1	-27.4	-27.6	-27.9	-33.3	-25.7	-29.7
Feb 10	-28.2	-28.2	-28.3	-28.3	-28.8	-29.3	-29.4	-29.4	-29.2	-29	-28.6	-27.9	-27.4	-26.6	-25.9	-25.6	-25.4	-26.5	-29.5	-31.8	-33.5	-34.8	-35.8	-36.8	-36.8	-25.4	-29.3
Feb 11	-37.6	-38.3	-38.5	-37.7	-36.6	-34	-32.8	-33	-32.5	-30.9	-30	-28.4	-26.5	-25.4	-24.6	-23.7	-23.6	-23.7	-24.1	-23.8	-23.8	-23.8	-23.4	-22.9	-38.5	-22.9	-29.2
Feb 12	-22.4	-21.9	-21.9	-21.9	-21.9	-21.7	-21.7	-21.6	-21.5	-21.1	-20.3	-19.2	-18.3	-17.4	-17.1	-16.9	-16.9	-17.6	-18.5	-20	-19.7	-19.2	-20.2	-22	-22.4	-16.9	-20.0
Feb 13	-24	-25.9	-27.3	-28.9	-30	-31.1	-32	-32.6	-32.9	-30	-23.3	-20.4	-18.5	-16.9	-16.2	-15.5	-15.2	-16.3	-18.6	-19.8	-20.5	-21.6	-22.5	-22.9	-32.9	-15.2	-23.5
Feb 14	-23.4	-23.5	-23.8	-24.2	-24.5	-24.8	-24.8	-25.6	-28.5	-27.3	-23	-18.7	-16.2	-13.6	-11.6	-10	-11.1	-13	-14.8	-16.5	-17.8	-18.7	-19.6	-20.6	-28.5	-10.0	-19.8
Feb 15	-21.5	-22.1	-23	-23.6	-23.9	-24.3	-24.3	-24.6	-24.3	-22.9	-21.7	-19.8	-17.9	-16.7	-15.6	-15.1	-14.8	-14.9	-15	-15.2	-15.2	-15.5	-15.3	-15.3	-24.6	-14.8	-19.3
Feb 16	-15.4	-15.4	-15.5	-15.5	-15.7	-16.3	-17.1	-17.8	-18.5	-18.5	-16.9	-15.7	-14.2	-13.3	-12.4	-11.9	-12.1	-13.2	-16.7	-20	-22.1	-23.7	-25.1	-26.4	-26.4	-11.9	-17.1
Feb 17	-27.4	-28.3	-29.2	-30.1	-30.8	-31.3	-31.9	-32.3	-32	-27.4	-20.2	-13.2	-9.4	-8.1	-7.5	-7.1	-6.8	-8.5	-13.4	-15.8	-18.5	-20.2	-21.7	-22.8	-32.3	-6.8	-20.6
Feb 18	-23.8	-24.6	-25.3	-25.8	-26.3	-27.1	-27.5	-27.7	-27.2	-22.1	-15.9	-8.6	-4.8	-2.8	-2	-1.4	-1.7	-3.4	-4.7	-8.5	-9.7	-10	-11.1	-12.3	-27.7	-1.4	-14.8
Feb 19	-12.3	-13.1	-13.7	-13.3	-7.2	-4.1	-2.8	-3	-4.3	-3.8	-2.4	0.2	0.9	1.6	2	2.4	2.4	1.7	0.6	0.1	0	-0.2	0.1	0	-13.7	2.4	-2.8
Feb 20	0	-0.2	-0.6	-0.7	-0.6	-1	-1.3	-1.6	-1.7	-0.6	0.1	0.1	0.4	1.4	1.8	2.1	0.9	0.7	-0.2	-0.5	-0.5	-0.8	-1.2	-0.6	-1.7	2.1	-0.2
Feb 21	-0.8	-0.7	0.8	1.4	1.7	1.7	1.7	2.4	3	4.2	4.7	4.9	5.2	6.1	7.7	7.9	7.6	7	6	5.4	5	4.6	4.1	3.1	-0.8	7.9	3.9
Feb 22	1.4	2.3	1.9	1	1.5	-0.2	-0.4	1.7	1.7	1.9	2.8	3	3.1	3.5	3.8	3.9	3.6	2.8	0.8	-0.8	-1.6	-1.7	-3.5	-5.3	-5.3	3.9	1.1
Feb 23	-6.5	-6.8	-6.7	-6.5	-5.4	-4.9	-4.5	-4.5	-3.6	-3	-2.4	-3.1	-2.7	-1.8	-0.8	-0.1	-0.2	-0.6	-3.4	-5.5	-4.7	-2.6	-2.7	-3.9	-6.8	-0.1	-3.6
Feb 24	-4	-4.1	-4.2	-5.1	-5.3	-6.4	-5.8	-5.9	-6.8	-5.5	-3.2	-1.9	-0.6	-0.3	0.1	0.3	0.1	-1.1	-2.3	-2.3	-3.2	-4.9	-4	-3.8	-6.8	0.3	-3.3
Feb 25	-4.3	-4.9	-5.2	-4.7	-4	-4.1	-4.2	-4.2	-4.1	-3	-1.1	-0.2	0	-0.8	-1.7	-5.6	-9.3	-11.2	-13	-15	-16.6	-17.6	-18.5	-19	-19.0	0.0	-7.2
Feb 26	-19.5	-20.4	-21	-21.4	-21.8	-22.1	-22.2	-22.4	-22.7	-22.3	-21.8	-20.8	-19.9	-18.8	-17.8	-17.2	-16.7	-16.9	-17.4	-18.1	-19	-19.4	-19.1	-19.5	-22.7	-16.7	-19.9
Feb 27	-21.8	-24	-25.6	-26.9	-27.4	-28.5	-29.1	-29.9	-28.4	-24	-20.1	-16.1	-11.9	-10.5	-8.9	-8.8	-8.3	-9.5	-10.7	-11.5	-12.2	-12.8	-13.5	-13.6	-29.9	-8.3	-18.1
Feb 28	-13.7	-14.1	-14.2	-14.5	-15.9	-17.1	-18.4	-19.5	-20	-19.6	-18.7	-17.8	-16.9	-16.3	-15.6	-15.2	-14.7	-13.9	-13.2	-12.7	-12.2	-11.7	-11.3	-10.9	-20.0	-10.9	-15.3
Diurnal Maximum	1.4	2.3	1.9	1.4	1.7	1.7	1.7	2.4	3.0	4.2	4.7	4.9	5.2	6.1	7.7	7.9	7.6	7.0	6.0	5.4	5.0	4.6	4.1	3.1			
Diurnal Average	-19.7	-20.2	-20.6	-20.8	-20.8	-21.0	-21.1	-21.2	-21.4	-20.2	-18.0	-16.1	-14.6	-13.6	-12.8	-12.6	-12.9	-13.9	-15.5	-16.8	-17.7	-18.2	-18.7	-19.2			
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance										
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure		
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																		
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

Timeseries Chart of Hourly Average for AT - AQHI - Cadotte Lake Station





PEACE RIVER AREA MONITORING PROGRAM

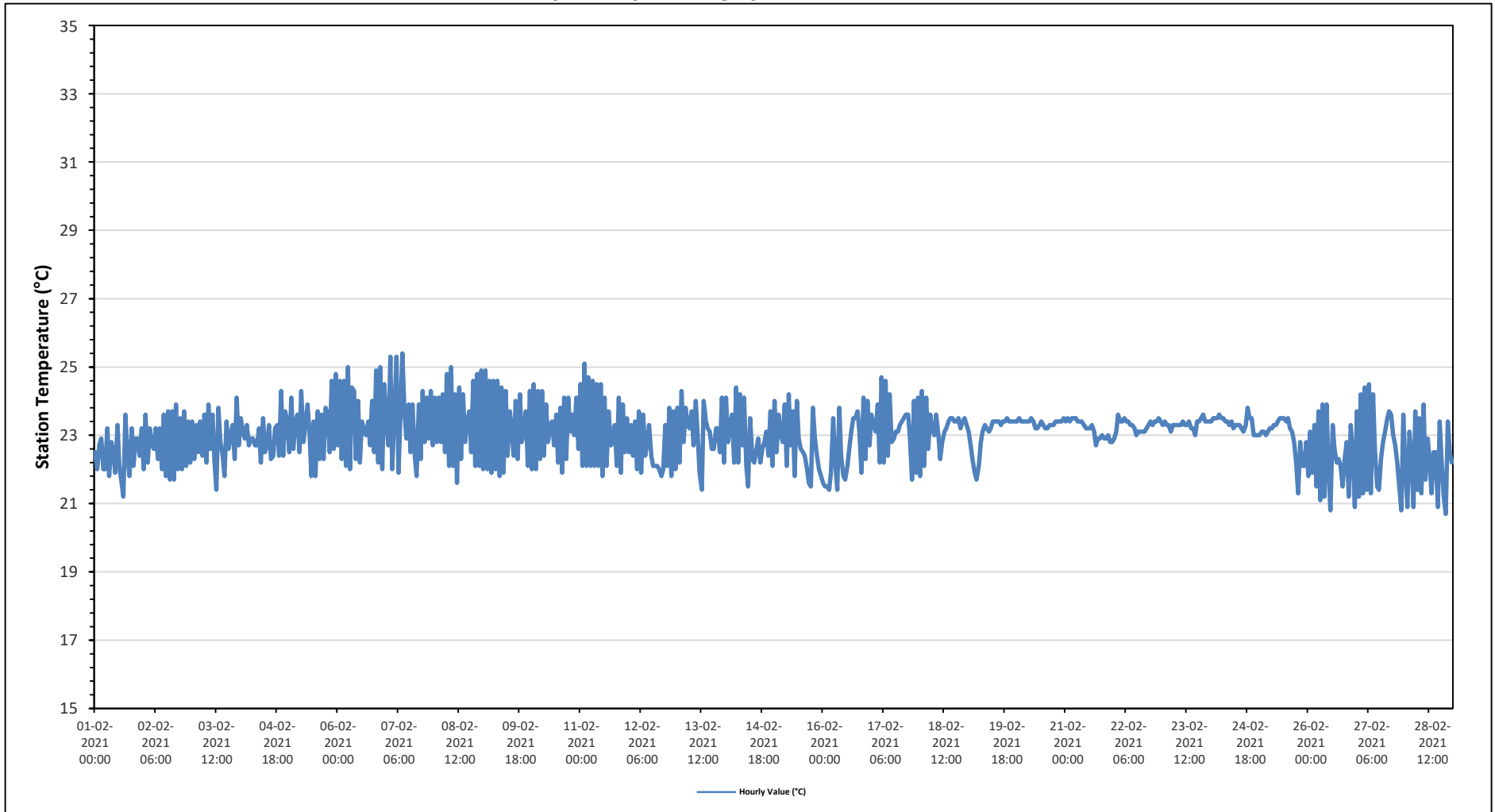
AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:		25.4	°C	on February 7 at hour 8												Hours in Service:		672										
Maximum Daily Value:		23.4	°C	on February 8												Hours of Data:		672										
Minimum Hourly Value:		20.7	°C	on February 28 at hour 20												Hours of Missing Data:		0										
Minimum Daily Value:		22.2	°C	on February 28												Hours of Calibration:		0										
Monthly Average:		23.0	°C													Operational Uptime:		100.0										
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average		
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23				
Feb 1	22.5	22.0	22.7	22.9	22.0	22.0	23.2	21.8	22.8	22.5	21.9	23.3	22.1	21.6	21.2	23.6	22.4	21.8	23.2	22.1	22.9	22.9	22.4	23.2	21.2	23.6	22.5	
Feb 2	22.0	23.6	22.2	23.2	22.7	22.6	23.2	22.3	23.2	22.0	23.6	21.8	23.7	21.7	23.7	21.7	23.9	22.0	23.5	22.0	23.7	22.1	23.4	22.2	21.7	23.9	22.8	
Feb 3	23.4	22.3	23.3	22.5	23.4	22.4	23.6	22.2	23.9	22.6	23.6	22.3	21.4	23.8	22.8	22.4	21.8	23.4	22.6	23.0	23.3	22.3	24.1	22.7	21.4	24.1	22.9	
Feb 4	23.5	23.1	22.9	23.3	22.7	22.9	22.9	22.7	22.7	23.2	22.2	23.5	22.5	22.7	23.3	22.3	22.4	23.2	23.3	22.4	24.3	22.4	23.7	23.4	22.2	24.3	23.0	
Feb 5	22.5	24.1	22.6	23.4	23.6	22.5	24.3	22.8	23.3	23.9	23.0	21.8	23.4	21.8	23.7	22.3	23.6	22.3	23.8	23.6	22.5	24.6	22.6	24.8	21.8	24.8	23.2	
Feb 6	22.7	24.6	22.3	24.6	22.1	25.0	22.0	24.4	24.3	22.3	24.0	22.2	23.4	23.1	23.0	23.4	22.7	24.0	22.5	24.9	22.2	25.0	22.0	24.5	22.0	25.0	23.4	
Feb 7	23.4	22.7	25.3	22.0	23.7	25.3	21.9	23.7	25.4	23.6	22.9	23.9	22.5	23.9	22.4	21.8	23.9	22.3	24.3	22.8	24.1	22.9	24.3	22.7	21.8	25.4	23.4	
Feb 8	24.1	22.8	24.1	22.8	24.2	22.5	24.8	22.1	25.0	22.1	24.2	21.6	24.4	22.3	24.2	22.8	23.4	23.7	22.5	24.6	22.1	24.8	22.1	24.9	21.6	25.0	23.4	
Feb 9	22.0	24.9	22.0	24.6	21.9	24.6	22.0	24.6	21.8	24.4	21.9	24.3	22.4	23.7	23.2	22.4	24.0	22.3	24.2	22.8	23.1	23.7	22.1	24.3	21.8	24.9	23.2	
Feb 10	22.0	24.5	22.0	24.3	22.3	24.3	22.4	23.9	22.8	23.3	23.4	22.7	23.6	22.2	23.8	21.9	24.1	22.3	24.1	23.1	23.6	23.0	24.1	22.6	21.9	24.5	23.2	
Feb 11	24.5	22.1	25.1	22.1	24.7	22.1	24.6	22.1	24.5	22.1	24.5	21.8	24.1	22.1	23.7	22.7	22.8	23.3	22.1	24.1	21.9	23.9	22.5	23.5	21.8	25.1	23.2	
Feb 12	22.5	23.3	22.4	23.4	22.0	23.7	21.9	23.6	22.4	22.8	23.3	22.4	22.1	22.1	22.1	22.0	21.8	22.0	23.3	22.1	23.8	21.8	23.7	22.0	21.8	23.8	22.6	
Feb 13	23.8	22.2	24.3	22.8	23.8	23.3	23.2	23.7	22.7	24.0	22.9	21.9	21.4	24.0	23.4	23.2	23.1	22.6	22.6	23.2	23.2	22.5	24.1	22.2	21.4	24.3	23.1	
Feb 14	24.1	22.8	23.3	23.6	22.2	24.4	22.2	24.2	22.7	24.1	22.1	21.5	23.5	22.3	22.2	22.6	22.9	22.2	22.6	22.8	23.1	22.4	23.7	22.1	21.5	24.4	22.9	
Feb 15	24.0	22.5	23.6	23.1	22.8	23.9	22.1	24.2	22.7	23.7	21.8	24.0	22.9	22.6	22.5	22.4	22.0	21.6	21.5	23.8	22.9	22.4	22.0	21.8	21.5	24.2	22.8	
Feb 16	21.6	21.5	21.5	21.4	21.9	23.5	22.3	21.4	23.8	22.4	21.8	21.7	22.1	22.6	23.1	23.5	23.5	23.7	23.1	21.9	24.1	22.3	24.0	22.7	21.4	24.1	22.6	
Feb 17	23.6	23.3	23.1	23.9	22.2	24.7	22.2	24.6	22.4	24.2	22.8	22.9	23.1	23.1	23.3	23.4	23.5	23.6	23.6	22.9	21.7	24.0	21.9	24.1	21.7	24.7	23.3	
Feb 18	21.8	24.3	22.1	24.1	22.6	23.6	23.2	23.0	23.6	23.0	22.3	22.8	23.1	23.2	23.4	23.5	23.5	23.4	23.4	23.5	23.2	23.4	23.5	23.3	21.8	24.3	23.2	
Feb 19	23.1	22.7	22.3	21.9	21.7	22.1	22.8	23.1	23.3	23.2	23.1	23.2	23.4	23.4	23.4	23.4	23.3	23.4	23.4	23.5	23.4	23.4	23.4	23.4	21.7	23.5	23.1	
Feb 20	23.4	23.5	23.4	23.4	23.4	23.4	23.4	23.5	23.4	23.2	23.2	23.3	23.4	23.3	23.2	23.2	23.3	23.3	23.3	23.4	23.4	23.4	23.5	23.5	23.2	23.5	23.4	
Feb 21	23.4	23.5	23.4	23.5	23.5	23.5	23.4	23.4	23.4	23.3	23.2	23.2	23.2	23.3	23.1	22.7	22.9	22.9	23.0	22.9	22.9	23.0	22.8	22.8	22.7	23.5	23.2	
Feb 22	22.9	23.1	23.6	23.4	23.4	23.5	23.4	23.4	23.3	23.3	23.2	23.0	23.1	23.1	23.1	23.1	23.2	23.3	23.4	23.3	23.4	23.4	23.5	23.4	22.9	23.6	23.3	
Feb 23	23.3	23.4	23.3	23.3	23.1	23.3	23.3	23.3	23.3	23.3	23.4	23.3	23.3	23.4	23.2	23.2	23.0	23.4	23.4	23.5	23.6	23.4	23.4	23.4	23.0	23.6	23.3	
Feb 24	23.4	23.5	23.5	23.5	23.6	23.5	23.5	23.4	23.4	23.3	23.4	23.2	23.3	23.3	23.3	23.2	23.1	23.3	23.8	23.5	23.5	23.0	23.0	23.0	23.0	23.8	23.4	
Feb 25	23.0	23.1	23.1	23.0	23.1	23.2	23.2	23.3	23.3	23.4	23.5	23.5	23.5	23.4	23.5	23.2	23.1	22.8	22.2	21.3	22.8	22.1	22.1	22.8	21.3	23.5	23.0	
Feb 26	21.8	23.1	21.9	23.3	21.5	23.7	21.1	23.9	21.2	23.9	22.0	20.8	23.3	22.6	22.2	22.3	22.1	21.5	22.3	22.8	21.2	23.3	22.4	20.9	20.8	23.9	22.3	
Feb 27	23.7	21.2	24.2	21.3	24.4	21.4	24.5	21.3	24.2	22.6	21.5	21.4	22.3	22.8	23.1	23.5	23.7	23.6	23.0	22.7	22.2	21.5	20.8	23.6	20.8	24.5	22.7	
Feb 28	22.0	20.9	23.1	22.3	20.9	23.7	21.4	23.5	21.3	23.9	21.7	22.9	22.3	21.3	22.5	22.5	20.9	23.4	22.2	21.2	20.7	23.4	22.5	22.2	20.7	23.9	22.2	
Diurnal Maximum	24.5	24.9	25.3	24.6	24.7	25.3	24.8	24.6	25.4	24.4	24.5	24.3	24.4	24.0	24.2	23.6	24.1	24.0	24.3	24.9	24.3	25.0	24.3	24.9				
Diurnal Average	23.0	23.0	23.1	23.1	22.8	23.4	22.9	23.2	23.2	23.2	22.9	22.7	23.0	22.8	23.1	22.8	23.0	22.9	23.1	23.0	23.0	23.1	23.0	23.1				
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance											
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure			
X	Invalid Data (Equipment Malfunction /Recovery)							NR	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																			
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

Timeseries Chart of Hourly Average for ST - AQHI - Cadotte Lake Station





PEACE RIVER AREA MONITORING PROGRAM

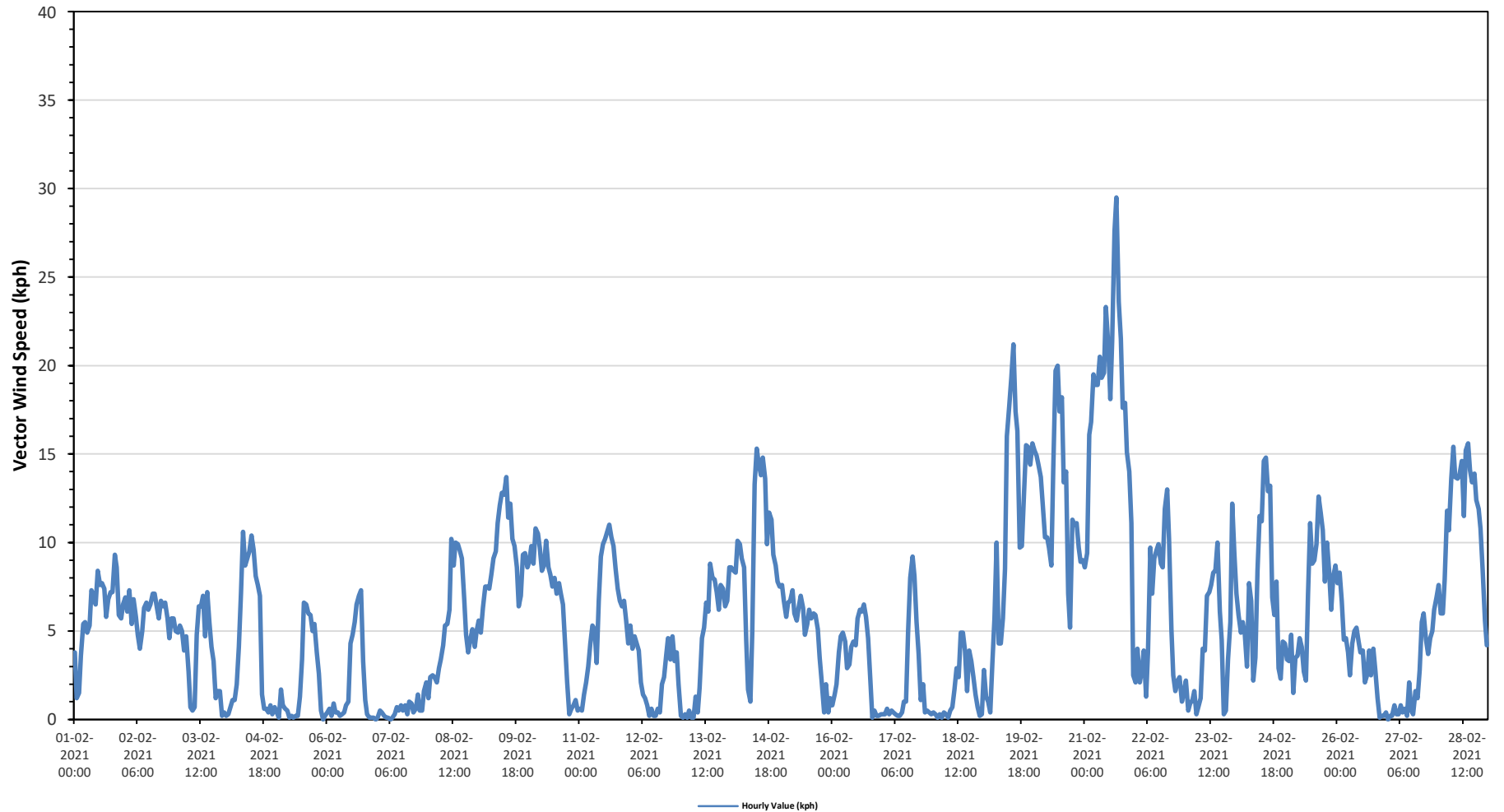
AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

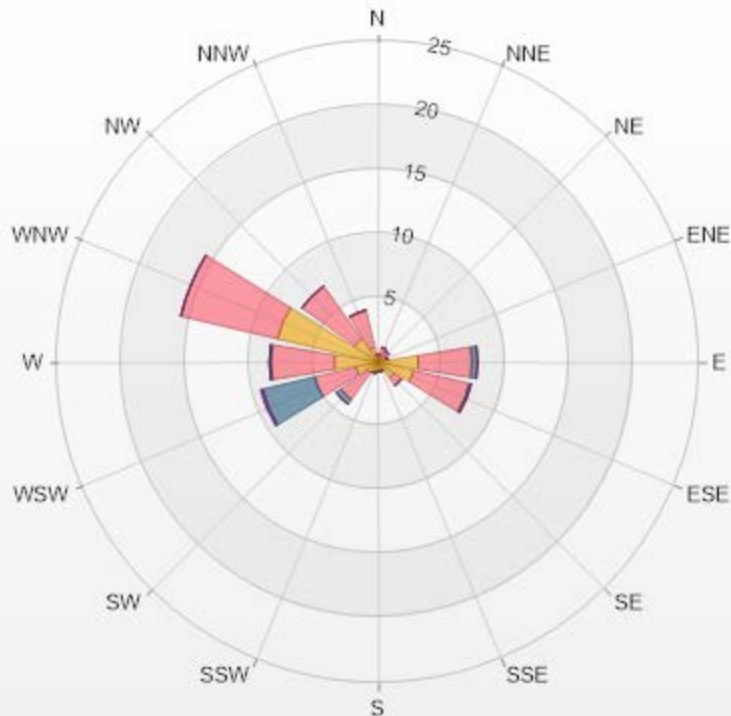
Maximum Hourly Value:										29.5 kph on February 21 at hour 15										Hours in Service:										672				
Maximum Daily Value:										17.8 kph on February 21										Hours of Data:										672				
Minimum Hourly Value:										0.0 kph on February 5 at hour 22										Hours of Missing Data:										0				
Minimum Daily Value:										0.4 kph on February 7										Hours of Calibration:										0				
Monthly Average:										2.2 kph										Operational Uptime:										100.0				
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23										
Feb 1	3.8	1.2	1.5	3.6	5.4	5.5	4.9	5.3	7.3	7.0	6.5	8.4	7.6	7.7	7.4	5.8	6.8	7.2	7.2	9.3	8.6	5.9	5.7	6.5	1.2	9.3	5.1							
Feb 2	6.9	6.1	7.3	5.4	6.8	5.8	4.8	4.0	5.0	6.3	6.6	6.2	6.5	7.1	7.1	6.3	5.7	6.7	6.4	6.6	5.7	4.6	5.7	5.7	4.0	7.3	5.9							
Feb 3	5.0	4.9	5.3	5.0	3.9	4.7	2.7	0.7	0.5	0.7	4.8	6.4	6.4	7.0	4.7	7.2	5.5	4.1	3.3	1.2	1.6	1.6	0.2	0.4	0.2	7.2	2.8							
Feb 4	0.2	0.3	0.7	1.1	1.1	2.0	4.1	7.1	10.6	8.7	9.1	9.5	10.4	9.6	8.1	7.6	7.0	1.4	0.6	0.6	0.4	0.8	0.3	0.7	0.2	10.6	4.0							
Feb 5	0.4	0.1	1.7	0.8	0.6	0.5	0.1	0.2	0.1	0.2	0.2	1.3	3.4	6.6	6.5	6.0	5.9	5.0	5.4	3.8	2.6	0.5	0.0	0.2	0.0	6.6	1.8							
Feb 6	0.4	0.6	0.2	0.9	0.4	0.4	0.2	0.3	0.4	0.8	1.0	4.3	4.8	5.5	6.5	7.0	7.3	3.3	1.1	0.3	0.1	0.1	0.1	0.0	0.0	7.3	1.9							
Feb 7	0.1	0.5	0.4	0.2	0.1	0.1	0.0	0.1	0.3	0.7	0.5	0.8	0.5	0.8	0.3	1.0	0.9	0.4	0.6	1.4	0.5	0.5	1.6	2.1	0.0	2.1	0.4							
Feb 8	1.2	2.4	2.5	2.4	2.1	2.9	3.4	4.2	5.3	5.4	6.2	10.2	8.7	10.0	9.9	9.5	9.1	6.8	4.8	3.8	4.5	5.1	4.1	5.0	1.2	10.2	5.3							
Feb 9	5.6	4.9	6.3	7.5	7.5	7.4	8.2	9.1	9.5	11.1	12.1	12.8	12.7	13.7	11.4	12.2	10.2	9.8	8.6	6.4	7.0	9.3	9.4	8.6	4.9	13.7	9.1							
Feb 10	8.9	9.8	8.8	10.8	10.5	9.7	8.4	8.7	10.1	8.6	8.2	7.5	8.0	7.1	7.7	7.1	6.5	4.3	2.1	0.3	0.6	0.8	1.1	0.5	0.3	10.8	6.4							
Feb 11	0.6	0.5	1.4	2.1	3.0	4.3	5.3	5.1	3.2	6.7	9.2	9.9	10.2	10.6	11.0	10.3	9.8	8.5	7.4	6.7	6.4	6.7	5.6	4.3	0.5	11.0	6.1							
Feb 12	5.3	4.0	4.7	4.3	3.9	2.1	1.4	1.2	0.8	0.2	0.6	0.2	0.2	0.6	0.4	2.0	2.4	3.6	4.6	3.4	4.7	3.3	3.8	2.0	0.2	5.3	0.5							
Feb 13	0.2	0.1	0.3	0.1	0.5	0.1	0.1	1.3	0.4	1.8	4.6	5.2	6.6	6.1	8.8	8.0	7.9	7.2	6.2	7.6	7.4	6.4	6.7	8.6	0.1	8.8	4.1							
Feb 14	8.6	8.4	8.3	10.1	9.9	9.1	8.6	4.5	1.7	1.0	4.9	13.3	15.3	14.5	13.8	14.8	13.6	9.9	11.7	11.3	9.3	8.7	7.8	7.5	1.0	15.3	9.2							
Feb 15	7.6	6.7	5.8	6.6	6.7	7.3	6.0	5.6	6.3	7.0	6.3	4.8	5.4	6.2	5.7	6.0	5.9	5.1	3.5	2.1	0.4	2.0	0.4	1.2	0.4	7.6	4.7							
Feb 16	0.8	1.4	2.0	3.8	4.7	4.9	4.4	2.9	3.1	4.1	4.4	4.2	5.7	6.2	6.1	6.5	5.8	4.6	2.1	0.1	0.5	0.2	0.2	0.3	0.1	6.5	3.0							
Feb 17	0.3	0.3	0.6	0.3	0.5	0.4	0.3	0.2	0.2	0.4	1.0	1.0	5.0	8.0	9.2	8.1	5.5	3.7	1.1	2.0	0.4	0.5	0.4	0.3	0.2	9.2	1.7							
Feb 18	0.4	0.3	0.1	0.3	0.1	0.4	0.3	0.1	0.5	0.7	1.7	2.9	2.4	4.9	4.9	3.9	1.6	3.9	3.3	2.4	1.4	0.7	0.2	0.3	0.1	4.9	0.9							
Feb 19	2.8	1.3	1.0	0.4	3.2	5.7	10.0	4.3	4.3	5.7	8.5	16.0	17.7	19.3	21.2	17.4	16.3	9.7	9.8	12.7	15.5	15.4	14.4	15.6	0.4	21.2	9.8							
Feb 20	15.2	14.9	14.4	13.7	12.0	10.3	10.3	9.7	8.7	14.0	19.7	20.0	17.4	18.2	13.4	14.0	7.1	5.2	11.3	11.0	11.1	9.7	8.9	9.0	5.2	20.0	12.0							
Feb 21	8.6	9.4	16.1	16.8	19.5	18.9	18.9	20.5	19.3	19.6	23.3	21.2	18.1	21.4	27.6	29.5	23.6	21.5	17.6	17.9	15.1	14.0	11.1	2.5	2.5	29.5	17.8							
Feb 22	2.1	4.0	2.1	2.8	3.9	1.3	3.8	9.7	7.1	9.1	9.6	9.9	8.8	8.6	11.9	13.0	10.2	5.1	2.5	1.6	2.2	2.4	1.0	1.5	1.0	13.0	5.4							
Feb 23	2.2	0.5	0.9	1.1	1.6	0.3	0.8	1.2	4.0	3.9	7.0	7.2	7.6	8.3	8.4	10.0	6.1	4.5	0.3	0.5	3.4	5.5	12.2	9.4	0.3	12.2	3.9							
Feb 24	7.1	5.9	4.9	5.5	4.8	3.0	7.7	6.7	2.2	3.5	8.4	11.5	11.2	14.6	14.8	12.9	13.2	6.9	5.9	7.8	2.9	2.3	4.4	4.3	2.2	14.8	6.6							
Feb 25	3.4	3.3	4.8	1.5	3.5	3.6	4.6	4.1	2.7	2.2	7.1	11.1	8.8	9.0	9.9	12.6	11.7	10.7	7.8	10.0	8.4	6.2	8.1	8.7	1.5	12.6	3.2							
Feb 26	7.7	8.3	6.7	4.5	4.6	3.8	2.5	4.3	5.0	5.2	4.4	3.8	3.9	2.1	2.5	3.9	2.5	4.0	2.7	1.2	0.1	0.2	0.2	0.4	0.1	8.3	2.7							
Feb 27	0.0	0.2	0.2	0.8	0.3	0.3	0.8	0.4	0.6	0.2	2.1	0.5	0.3	1.6	1.2	2.8	5.5	6.0	4.5	3.7	4.6	5.0	6.2	6.9	0.0	6.9	1.6							
Feb 28	7.6	6.0	6.0	7.9	11.8	10.7	13.6	15.4	13.7	13.6	13.8	14.6	11.5	15.2	15.6	14.1	13.4	13.9	12.4	11.9	10.8	8.5	5.6	4.2	4.2	15.6	11.3							
Diurnal Maximum	15	15	16	17	20	19	19	21	19	20	23	21	18	21	28	30	24	22	18	18	16	15	14	16										
Diurnal Average	4.0	3.8	4.1	4.3	4.7	4.5	4.9	4.9	4.7	5.3	6.9	8.0	8.0	8.9	9.1	9.3	8.1	6.5	5.5	5.3	4.9	4.5	4.5	4.2										
C	Monthly Calibration							S	Daily Zero-Span Check							Q	Quality Assurance																	
K	Collection Error							N	No Data (Machine Not in Service)							Y	Routine Maintenance							P	Power Failure									
X	InValid Data (Equipment Malfunction /Recovery)							NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																									
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																																		
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																																		

Timeseries Chart of Hourly Average for VWS - AQHI - Cadotte Lake Station



Wind: AQHI Cadotte Lake Monitor: WDS [KPH] Monthly: 02-2021 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
 Calm: 27.53% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.15	0.45	0	0	0	0.6
NNE	0.45	0.74	0	0	0	1.19
NE	0.6	0.45	0	0	0	1.05
ENE	0.74	0	0	0	0	0.74
E	3.13	4.17	0.45	0	0	7.75
ESE	2.83	4.46	0.15	0	0	7.44
SE	1.49	0.74	0	0	0	2.23
SSE	0.74	0	0	0	0	0.74
S	0.74	0	0	0	0	0.74
SSW	0.89	0	0	0	0	0.89
SW	1.04	2.53	0.45	0	0	4.02
WSW	1.79	3.27	4.17	0.15	0	9.38
W	3.42	4.91	0.15	0	0	8.48
WNW	8.04	7.74	0	0	0	15.78
NW	2.23	5.06	0	0	0	7.29
NNW	1.19	2.98	0	0	0	4.17
Summary	29.47	37.5	5.37	0.15	0	72.49



PRAMP-202102

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PEACE RIVER AREA MONITORING PROGRAM

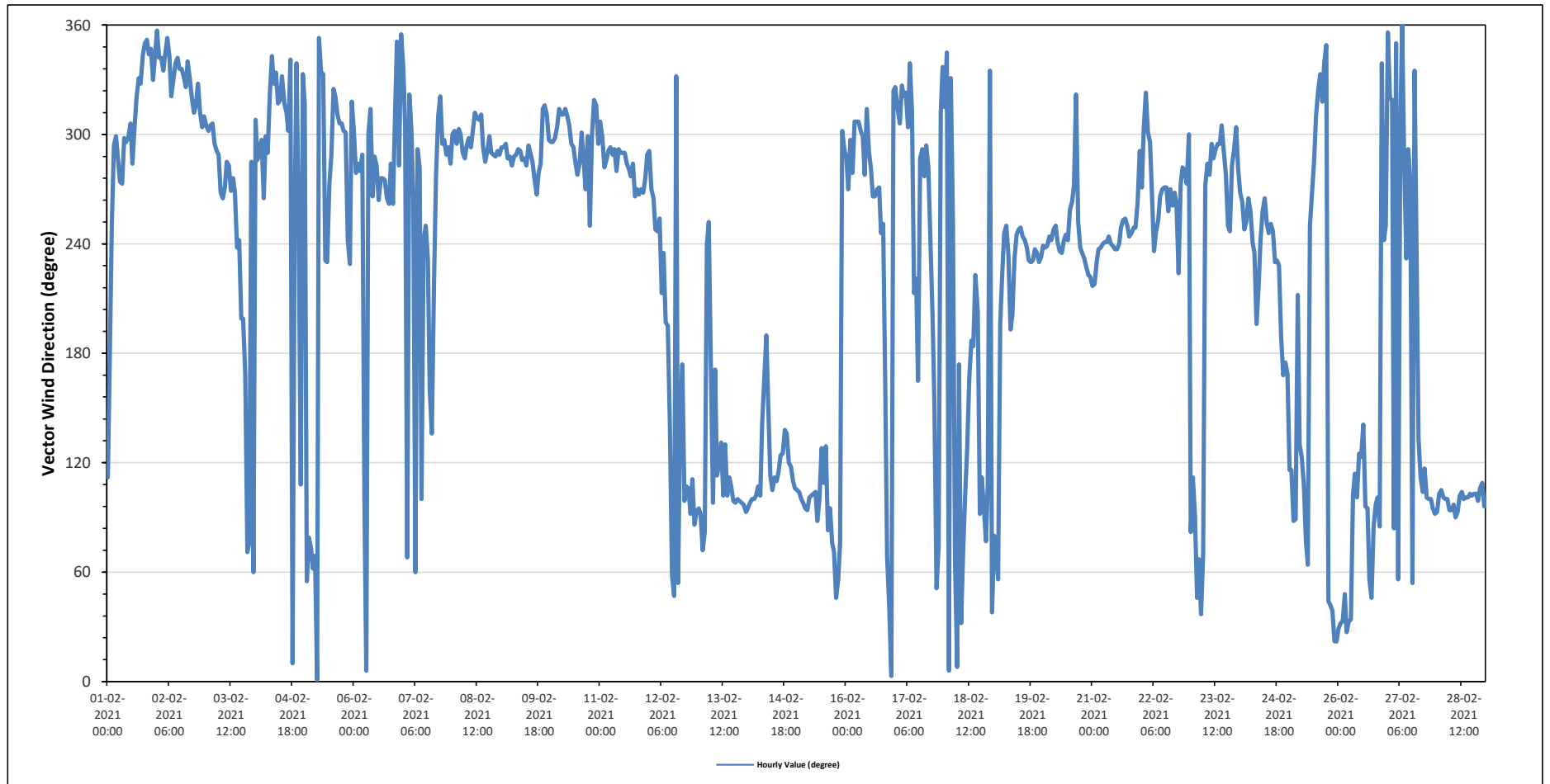
AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average:		269 (W) degree																							Hours in Service:		672	
																									Hours of Data:		672	
																									Hours of Missing Data:		0	
																									Hours of Calibration:		0	
																									Operational Uptime:		100.0	
Day	Hourly Period Starting at (MST)																							Daily Average				
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant		
Feb 1	ESE	S	WSW	WNW	WNW	WNW	W	W	WNW	WNW	WNW	NW	WNW	WNW	NW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	NNW	316	NW		
Feb 2	N	NNW	NNW	NNW	NNW	N	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	332	NNW		
Feb 3	WNW	WNW	WNW	NW	WNW	WNW	WNW	W	W	W	WNW	W	W	W	W	SW	WSW	SSW	SSW	SSE	ENE	ENE	WNW	ENE	274	W		
Feb 4	NW	WNW	WNW	WNW	W	WNW	WNW	NW	NNW	NNW	NNW	NW	NW	NNW	NW	NW	WNW	NNW	N	WSW	NNW	WSW	ESE	NNW	321	NW		
Feb 5	NW	NE	ENE	ENE	ENE	ENE	N	N	NNW	NNW	SW	SW	W	WNW	NW	NW	NW	NW	WNW	WNW	WSW	SW	NW	NW	308	NW		
Feb 6	WNW	W	WNW	W	WNW	E	N	WNW	NW	W	WNW	W	W	W	W	W	W	W	WNW	W	NW	N	W	N	274	W		
Feb 7	NNW	WNW	ENE	NW	WNW	W	ENE	WNW	W	E	WSW	WSW	SW	SSE	SE	SW	W	NW	NW	WNW	WNW	WNW	WNW	WNW	277	W		
Feb 8	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	298	WNW		
Feb 9	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	W	W	W	WNW	NW	NW	NW	WNW	290	WNW	
Feb 10	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	W	WNW	WSW	WNW	NW	NW	WNW	299	WNW		
Feb 11	NW	WNW	W	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	W	W	WNW	W	W	W	W	W	W	WNW	282	W		
Feb 12	WNW	W	W	WSW	WSW	WSW	SSW	SW	SSW	SSW	SE	ENE	NE	NNW	NE	SE	S	E	ESE	ESE	E	ESE	E	E	173	S		
Feb 13	E	E	ENE	E	WSW	WSW	S	E	S	ESE	ESE	SE	E	SE	E	ESE	ESE	E	E	E	E	E	E	E	105	ESE		
Feb 14	E	E	E	E	E	ESE	E	SE	SSE	S	SE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	ESE	ESE	ESE	ESE	115	ESE		
Feb 15	ESE	ESE	E	E	E	E	E	E	ESE	ESE	E	E	SE	ESE	SE	E	E	ENE	ENE	NE	NE	ENE	WNW	WNW	98	E		
Feb 16	WNW	W	WNW	W	NW	NW	NW	WNW	WNW	W	NW	WNW	W	W	W	W	W	WSW	WSW	SSE	ENE	NE	N	NW	283	W		
Feb 17	NW	NW	NW	NW	NW	NW	WNW	NNW	NW	SSW	SW	SSE	WNW	WNW	W	WNW	W	WSW	SSW	SSE	NE	ENE	NW	NNW	279	W		
Feb 18	NW	NNW	N	NNW	WSW	ENE	N	S	NNE	ENE	E	SE	SSE	S	S	SW	SSW	E	ESE	E	ENE	ESE	NNW	NE	145	SE		
Feb 19	E	ENE	NE	SSW	SW	WSW	WSW	SW	S	SSW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	237	SW		
Feb 20	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	W	W	NW	WSW	SW	SW	SW	SW	SW	SW	244	WSW		
Feb 21	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	243	WSW		
Feb 22	W	WNW	NW	WNW	WNW	W	SW	WSW	WSW	W	W	W	W	WSW	W	W	W	W	SW	W	W	W	W	WNW	267	W		
Feb 23	E	ESE	E	NE	ENE	NE	ENE	W	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	WSW	W	WNW	WNW	W	WNW	294	WNW		
Feb 24	W	W	WSW	WSW	W	WSW	WSW	SW	SSW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	SW	SW	SW	S	SSE	S	SSE	243	WSW		
Feb 25	ESE	ESE	E	E	SSW	SE	ESE	ESE	ENE	ENE	WSW	W	WNW	NW	NW	NNW	NW	NNW	NNW	NE	NE	NE	NNE	NNE	353	N		
Feb 26	NNE	NNE	NNE	NE	NNE	NNE	NE	E	ESE	E	SE	ESE	SE	E	E	NE	NE	E	E	E	E	NNW	WSW	WSW	69	ENE		
Feb 27	N	NW	NW	E	N	NE	WNW	N	W	SW	WNW	W	NE	NNW	WSW	SE	ESE	ESE	ESE	E	E	E	E	E	101	E		
Feb 28	E	ESE	ESE	E	E	E	E	E	E	E	E	E	ESE	E	E	E	ESE	E	ESE	ESE	E	ESE	ESE	E	100	E		
C	Monthly Calibration						S	Daily Zero-Span Check						Q	Quality Assurance						P	Power Failure						
K	Collection Error						N	No Data (Machine Not in Service)						Y	Routine Maintenance													
X	Invalid Data (Machine Malfunction /Recovery)						NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)																				
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																												
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																												

Timeseries Chart of Hourly Average for VWD - AQHI - Cadotte Lake Station





PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																												
Maximum Hourly Value:		29.5	kph	on February 21 at hour 15										Hours in Service:		672												
Maximum Daily Value:		17.8	kph	on February 21										Hours of Data:		672												
Minimum Hourly Value:		0.0	kph	on February 5 at hour 22										Hours of Missing Data:		0												
Minimum Daily Value:		0.4	kph	on February 7										Hours of Calibration:		0												
Monthly Average:		2.2	kph											Operational Uptime:		100												
WIND DIRECTION																												
Monthly Average:		269	(W)	degree																								
Day	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Daily Minimum	Daily Maximum	Daily Average	
Feb 1	3.8	1.2	1.5	3.6	5.4	5.5	4.9	5.3	7.3	7.0	6.5	8.4	7.6	7.7	7.4	5.8	6.8	7.2	7.2	9.3	8.6	5.9	5.7	6.5	1.2	9.3	5.1	
Feb 2	ESE	S	WSW	WNW	WNW	WNW	W	W	WNW	WNW	WNW	NW	WNW	WNW	NW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	NNW	4.0	7.3	5.9	
	6.9	6.1	7.3	5.4	6.8	5.8	4.8	4.0	5.0	6.3	6.6	6.2	6.5	7.1	7.1	6.3	5.7	6.7	6.4	6.6	5.7	4.6	5.7	5.7				
Feb 3	N	NNW	NNW	NNW	NNW	N	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NW	NW	NNW	NW	WNW	NW	WNW	0.2	7.2	2.8	
	5.0	4.9	5.3	5.0	3.9	4.7	2.7	0.7	0.5	0.7	4.8	6.4	6.4	7.0	4.7	7.2	5.5	4.1	3.3	1.2	1.6	1.6	0.2	0.4				
Feb 4	WNW	WNW	WNW	NW	WNW	WNW	WNW	W	W	W	WNW	W	W	W	W	SW	WSW	SSW	SSW	SSE	ENE	ENE	WNW	ENE	0.2	10.6	4.0	
	0.2	0.3	0.7	1.1	1.1	2.0	4.1	7.1	10.6	8.7	9.1	9.5	10.4	9.6	8.1	7.6	7.0	1.4	0.6	0.6	0.4	0.8	0.3	0.7				
Feb 5	NW	WNW	WNW	WNW	W	WNW	WNW	NW	NNW	NNW	NNW	NW	NW	NNW	NW	NW	WNW	NNW	N	WSW	NNW	WSW	ESE	NNW				
	0.4	0.1	1.7	0.8	0.6	0.5	0.1	0.2	0.1	0.2	0.2	1.3	3.4	6.6	6.5	6.0	5.9	5.0	5.4	3.8	2.6	0.5	0.0	0.2	0.0	6.6	1.8	
Feb 6	NW	NE	ENE	ENE	ENE	N	N	NNW	NNW	SW	SW	W	W	NNW	NW	NW	NW	NNW	NNW	WSW	WSW	SW	NW					
	0.4	0.6	0.2	0.9	0.4	0.4	0.2	0.3	0.4	0.8	1.0	4.3	4.8	5.5	6.5	7.0	7.3	3.3	1.1	0.3	0.1	0.1	0.1	0.0	0.0	7.3	1.9	
Feb 7	WNW	W	WNW	W	WNW	E	N	WNW	NW	W	WNW	W	W	W	W	W	W	W	W	WNW	W	NW	N	W	N			
	0.1	0.5	0.4	0.2	0.1	0.1	0.0	0.1	0.3	0.7	0.5	0.8	0.5	0.8	0.3	1.0	0.9	0.4	0.6	1.4	0.5	0.5	1.6	2.1	0.0	2.1	0.4	
Feb 8	NNW	WNW	ENE	NW	WNW	W	ENE	WNW	W	E	WSW	WSW	SW	SSE	SE	SW	W	NW	NW	WNW	WNW	WNW	WNW	WNW				
	1.2	2.4	2.5	2.4	2.1	2.9	3.4	4.2	5.3	5.4	6.2	10.2	8.7	10.0	9.9	9.5	9.1	6.8	4.8	3.8	4.5	5.1	4.1	5.0	1.2	10.2	5.3	
Feb 9	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW				
	5.6	4.9	6.3	7.5	7.5	7.4	8.2	9.1	9.5	11.1	12.1	12.8	12.7	13.7	11.4	12.2	10.2	9.8	8.6	6.4	7.0	9.3	9.4	8.6	4.9	13.7	9.1	
Feb 10	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	W	W	WNW	NW	NW	NW	WNW				
	8.9	9.8	8.8	10.8	10.5	9.7	8.4	8.7	10.1	8.6	8.2	7.5	8.0	7.1	7.7	7.1	6.5	4.3	2.1	0.3	0.6	0.8	1.1	0.5	0.3	10.8	6.4	
Feb 11	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	W	WNW	WSW	WNW	NW	NW	WNW				
	0.6	0.5	1.4	2.1	3.0	4.3	5.3	5.1	3.2	6.7	9.2	9.9	10.2	10.6	11.0	10.3	9.8	8.5	7.4	6.7	6.4	6.7	5.6	4.3	0.5	11.0	6.1	
Feb 12	NW	WNW	W	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	W	W	WNW	W	W	W	W	W	W	WNW				
	5.3	4.0	4.7	4.3	3.9	2.1	1.4	1.2	0.8	0.2	0.6	0.2	0.2	0.6	0.4	2.0	2.4	3.6	4.6	3.4	4.7	3.3	3.8	2.0	0.2	5.3	0.5	
Feb 13	WNW	W	W	WSW	WSW	WSW	SSW	SW	SSW	SSW	SE	ENE	NE	NNW	NE	SE	S	E	ESE	ESE	E	ESE	E	E				
	0.2	0.1	0.3	0.1	0.5	0.1	0.1	1.3	0.4	1.8	4.6	5.2	6.6	6.1	8.8	8.0	7.9	7.2	6.2	7.6	7.4	6.4	6.7	8.6	0.1	8.8	4.1	
Feb 14	E	E	ENE	E	WSW	WSW	S	E	S	ESE	ESE	SE	E	SE	E	ESE	ESE	E	E	E	E	E	E	E				
	8.6	8.4	8.3	10.1	9.9	9.1	8.6	4.5	1.7	1.0	4.9	13.3	15.3	14.5	13.8	14.8	13.6	9.9	11.7	11.3	9.3	8.7	7.8	7.5	1.0	15.3	9.2	
Feb 15	E	E	E	E	E	ESE	E	SE	SSE	S	SE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	ESE				
	7.6	6.7	5.8	6.6	6.7	7.3	6.0	5.6	6.3	7.0	6.3	4.8	5.4	6.2	5.7	6.0	5.9	5.1	3.5	2.1	0.4	2.0	0.4	1.2	0.4	7.6	4.7	
Feb 16	ESE	ESE	E	E	E	E	E	E	ESE	ESE	E	E	SE	ESE	SE	E	E	ENE	ENE	NE	NE	ENE	WNW	WNW				
	0.8	1.4	2.0	3.8	4.7	4.9	4.4	2.9	3.1	4.1	4.4	4.2	5.7	6.2	6.1	6.5	5.8	4.6	2.1	0.1	0.5	0.2	0.2	0.3	0.1	6.5	3.0	
Feb 17	WNW	W	WNW	W	NW	NW	NW	WNW	WNW	W	NW	WNW	W	W	W	W	WSW	WSW	SSE	ENE	NE	N	NW					
	0.3	0.3	0.6	0.3	0.5	0.4	0.3	0.2	0.2	0.4	1.0	1.0	5.0	8.0	9.2	8.1	5.5	3.7	1.1	2.0	0.4	0.5	0.4	0.3	0.2	9.2	1.7	
Feb 18	NW	NW	NW	NW	NW	NW	WNW	NNW	NW	SSW	SW	SSE	WNW	WNW	W	WNW	W	WSW	SSW	SSE	NE	ENE	NW	NNW				
	0.4	0.3	0.1	0.3	0.1	0.4	0.3	0.1	0.5	0.7	1.7	2.9	2.4	4.9	4.9	3.9	1.6	3.9	3.3	2.4	1.4	0.7	0.2	0.3	0.1	4.9	0.9	
Feb 19	NW	NNW	N	NNW	WSW	ENE	N	S	NNE	ENE	E	SE	SSE	S	S	SW	SSW	E	ESE	E	ENE	ESE	NNW	NE				
	2.8	1.3	1.0	0.4	3.2	5.7	10.0	4.3	4.3	5.7	8.5	16.0	17.7	19.3	21.2	17.4	16.3	9.7	9.8	12.7	15.5	15.4	14.4	15.6	0.4	21.2	9.8	
Feb 20	E	ENE	NE	SSW	SW	WSW	WSW	SW	S	SSW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	SW				
	15.2	14.9	14.4	13.7	12.0	10.3	10.3	9.7	8.7	14.0	19.7	20.0	17.4	18.2	13.4	14.0	7.1	5.2	11.3	11.0	11.1	9.7	8.9	9.0	5.2	20.0	12.0	
	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	W	W	NW	WSW	SW	SW	SW	SW	SW	SW				



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - February 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr & WIND DIRECTION (VWD) in sector

WIND SPEED																											
Maximum Hourly Value:		29.5 kph on February 21 at hour 15													Hours in Service:		672										
Maximum Daily Value:		17.8 kph on February 21													Hours of Data:		672										
Minimum Hourly Value:		0.0 kph on February 5 at hour 22													Hours of Missing Data:		0										
Minimum Daily Value:		0.4 kph on February 7													Hours of Calibration:		0										
Monthly Average:		2.2 kph													Operational Uptime:		100										
WIND DIRECTION																											
Monthly Average:		269 (W) degree																									
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average	
Feb 21	8.6	9.4	16.1	16.8	19.5	18.9	18.9	20.5	19.3	19.6	23.3	21.2	18.1	21.4	27.6	29.5	23.6	21.5	17.6	17.9	15.1	14.0	11.1	2.5	2.5	29.5	17.8
Feb 22	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	1.0	13.0	5.4	
	2.1	4.0	2.1	2.8	3.9	1.3	3.8	9.7	7.1	9.1	9.6	9.9	8.8	8.6	11.9	13.0	10.2	5.1	2.5	1.6	2.2	2.4	1.0	1.5			
Feb 23	W	WNW	NW	WNW	WNW	W	SW	WSW	WSW	W	W	W	WSW	W	W	W	W	SW	W	W	W	W	WNW	0.3	12.2	3.9	
	2.2	0.5	0.9	1.1	1.6	0.3	0.8	1.2	4.0	3.9	7.0	7.2	7.6	8.3	8.4	10.0	6.1	4.5	0.3	0.5	3.4	5.5	12.2	9.4			
Feb 24	E	ESE	E	NE	ENE	NE	ENE	W	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	WSW	W	WNW	WNW	W	2.2	14.8	6.6
	7.1	5.9	4.9	5.5	4.8	3.0	7.7	6.7	2.2	3.5	8.4	11.5	11.2	14.6	14.8	12.9	13.2	6.9	5.9	7.8	2.9	2.3	4.4	4.3			
Feb 25	W	W	WSW	WSW	W	WSW	WSW	SW	SSW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	SW	SW	S	SSE	S	SSE	1.5	12.6	3.2	
	3.4	3.3	4.8	1.5	3.5	3.6	4.6	4.1	2.7	2.2	7.1	11.1	8.8	9.0	9.9	12.6	11.7	10.7	7.8	10.0	8.4	6.2	8.1	8.7			
Feb 26	ESE	ESE	E	E	SSW	SE	ESE	ESE	ENE	ENE	WSW	W	WNW	NW	NW	NNW	NW	NNW	NNW	NE	NE	NE	NNE	NNE	0.1	8.3	2.7
	7.7	8.3	6.7	4.5	4.6	3.8	2.5	4.3	5.0	5.2	4.4	3.8	3.9	2.1	2.5	3.9	2.5	4.0	2.7	1.2	0.1	0.2	0.2	0.4			
Feb 27	NNE	NNE	NNE	NE	NNE	NNE	NE	E	ESE	E	SE	ESE	SE	E	E	NE	NE	E	E	E	E	NNW	WSW	WSW	0.0	6.9	1.6
	0.0	0.2	0.2	0.8	0.3	0.3	0.8	0.4	0.6	0.2	2.1	0.5	0.3	1.6	1.2	2.8	5.5	6.0	4.5	3.7	4.6	5.0	6.2	6.9			
Feb 28	N	NW	NW	E	N	NE	WNW	N	W	SW	WNW	W	NE	NNW	WSW	SE	ESE	ESE	E	E	E	E	E	E	4.2	15.6	11.3
	7.6	6.0	6.0	7.9	11.8	10.7	13.6	15.4	13.7	13.6	13.8	14.6	11.5	15.2	15.6	14.1	13.4	13.9	12.4	11.9	10.8	8.5	5.6	4.2			
	E	ESE	ESE	E	E	E	E	E	E	E	E	E	E	E	E	E	ESE	E	ESE	ESE	ESE	ESE	ESE	E			
C	Monthly Calibration								S	Daily Zero-Span Check								Q	Quality Assurance								
K	Collection Error								N	No Data (Machine Not in Service)								Y	Routine Maintenance								
X	Invalid Data (Equipment Malfunction/Recovery)								NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)								P	Power Failure								
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.																											
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.																											

VOC CANISTER SAMPLING RESULTS

PEACE RIVER AREA MONITORING PROGRAM

986c Site - February 2021

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID			2021-02-26 @09:10 Non-methane Hydrocarbon 28886		
Method NA-025			Method NA-024		
Maximum Reading (ppmv) 2.4 Methane			Maximum Reading (ppmv) 1.5 Carbonyl sulphide		
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)
1-Butene	0	0.16	2,5-Dimethylthiophene	0	0.5
Acetylene	0	0.12	2-Ethylthiophene	0	0.3
cis-2-Butene	0	0.06	2-Methylthiophene	0	0.3
Ethane	0	0.2	3-Methylthiophene	0	0.5
Ethylacetylene	0	0.09	Butyl mercaptan	0	0.5
Ethylene	0	0.11	Carbon disulphide	0	0.3
Isobutane	0	0.2	Carbonyl sulphide	1.5	0.5
Isobutylene	0	0.2	Dimethyl disulphide	0	0.3
Methane	2.4	0.2	Dimethyl sulphide	0	0.3
n-Butane	0	0.3	Ethyl mercaptan	0	0.5
n-Propane	0	0.11	Ethyl sulphide	0	0.5
Propylene	0	0.2	Hydrogen sulphide	0	0.5
Propyne	0	0.2	Isobutyl mercaptan	0	0.5
trans-2-Butene	0	0.14	Isopropyl mercaptan	0	0.5
			Methyl mercaptan	0	0.3
			Pentyl mercaptan	0	0.6
			Propyl mercaptan	0	0.6
			tert-Butyl mercaptan	0	0.5
			Thiophene	0	0.3
			1,1,1-Trichloroethane	0	0.03
			1,1,2,2-Tetrachloroethane	0	0.03
			1,1,2-Trichloroethane	0.08	0.03
			1,1-Dichloroethane	0	0.03
			1,1-Dichloroethylene	0	0.06
			1,2,3-Trimethylbenzene	0	0.08
			1,2,4-Trichlorobenzene	0	1.2
			1,2,4-Trimethylbenzene	0	0.08
			1,2-Dibromoethane	0	0.03
			1,2-Dichlorobenzene	0	0.05
			1,2-Dichloroethane	0	0.02
			1,2-Dichloropropane	0	0.02
			1,3,5-Trimethylbenzene	0	0.03
			1,3-Butadiene	0	0.03
			1,3-Dichlorobenzene	0	0.5
			1,4-Dichlorobenzene	0	0.6
			1,4-Dioxane	0	0.6
			1-Butene/Isobutylene	3.39	0.03
			1-Hexene/2-Methyl-1-pentene	0.34	0.03
			1-Pentene	1.21	0.02
			2,2,4-Trimethylpentane	0	0.02
			2,2-Dimethylbutane	0.21	0.02
			2,3,4-Trimethylpentane	0	0.02
			2,3-Dimethylbutane	0.24	0.03
			2,3-Dimethylpentane	0	0.03
			2,4-Dimethylpentane	0	0.02
			2-Methylheptane	0	0.02
			2-Methylhexane	0.19	0.02
			2-Methylpentane	0.74	0.02
			3-Methylheptane	0	0.03
			3-Methylhexane	0	0.03
			3-Methylpentane	0.38	0.02
			Acetone	5.9	3.7
			Acrolein	0	0.5
			Benzene	0.34	0.02
			Benzyl chloride	0	0.6
			Bromodichloromethane	0	0.03
			Bromoform	0	0.03
			Bromomethane	0	0.02
			Carbon disulfide	0.19	0.02
			Carbon tetrachloride	0.15	0.02
			Chlorobenzene	0	0.03
			Chloroethane	0	0.03
			Chloroform	0	0.03
			Chloromethane	1.45	0.03
			cis-1,2-Dichloroethene	0	0.02
			cis-1,3-Dichloropropene	0	0.06
			cis-2-Butene	0	0.03
			cis-2-Pentene	0.17	0.03
			Cyclohexane	0	0.03
			Cyclopentane	0.28	0.02
			Dibromochloromethane	0	0.02
			Ethanol	9.4	2.8
			Ethyl acetate	0	0.6
			Ethylbenzene	0	0.02
			Freon-11	0.37	0.03
			Freon-113	0.17	0.02
			Freon-114	0.04	0.03

PEACE RIVER AREA MONITORING PROGRAM

986c Site - February 2021

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID		2021-02-26 @09:10 Non-methane Hydrocarbon 28886			
Method NA-025		Method NA-024		Method AC-058	
Maximum Reading (ppmv) 2.4 Methane		Maximum Reading (ppmv) 1.5 Carbonyl sulphide		Maximum Reading (ppmv) 9.4 Ethanol	
Parameter	Result (ppmv) RDL (ppmv)	Parameter	Result (ppbv) RDL (ppbv)	Parameter	Result (ppbv) RDL (ppbv)
				Freon-12	0.78 0.03
				Hexachloro-1,3-butadiene	0 0.78
				Isobutane	2.26 0.03
				Isopentane	5.11 0.05
				Isoprene	0 0.02
				Isopropyl alcohol	2.9 3.7
				Isopropylbenzene	0 0.02
				m,p-Xylene	0 0.05
				m-Diethylbenzene	0 0.06
				m-Ethyltoluene	0 0.12
				Methyl butyl ketone	0 0.78
				Methyl ethyl ketone	0 0.5
				Methyl isobutyl ketone	0 0.6
				Methyl methacrylate	0 0.11
				Methyl tert butyl ether	0 0.05
				Methylcyclohexane	0 0.02
				Methylcyclopentane	0.21 0.03
				Methylene chloride	0 0.5
				n-Butane	2.56 0.05
				n-Decane	0 0.09
				n-Dodecane	0 0.6
				n-Heptane	0.32 0.02
				n-Hexane	0.84 0.02
				n-Nonane	0.14 0.02
				n-Octane	0.2 0.03
				n-Pentane	4.6 0.2
				n-Propylbenzene	0 0.08
				n-Undecane	0 0.8
				Naphthalene	0 0.8
				o-Ethyltoluene	0 0.02
				o-Xylene	0 0.02
				p-Diethylbenzene	0 0.06
				p-Ethyltoluene	0 0.11
				Styrene	0 0.06
				Tetrachloroethylene	0 0.06
				Tetrahydrofuran	0 0.6
				Toluene	0.21 0.02
				trans-1,2-Dichloroethylene	0.69 0.09
				trans-1,3-Dichloropropylene	0 0.06
				trans-2-Butene	0 0.02
				trans-2-Pentene	0 0.03
				Trichloroethylene	0 0.06
				Vinyl acetate	0.7 0.6
				Vinyl chloride	0 0.03

PEACE RIVER AREA MONITORING PROGRAM

986c Site - January 2021

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID			2021-02-26 @09:10 Blank 28968		
Method NA-025			Method NA-024		
Maximum Reading (ppmv) -			Maximum Reading (ppmv) -		
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)
1-Butene	0.0	0.1	2,5-Dimethylthiophene	0	0.3
Acetylene	0	0.08	2-Ethylthiophene	0	0.2
cis-2-Butene	0	0.04	2-Methylthiophene	0	0.2
Ethane	0	0.1	3-Methylthiophene	0	0.3
Ethylacetylene	0	0.06	Butyl mercaptan	0	0.3
Ethylene	0	0.07	Carbon disulphide	0	0.2
Isobutane	0	0.1	Carbonyl sulphide	0	0.3
Isobutylene	0	0.1	Dimethyl disulphide	0	0.2
Methane	0	0.1	Dimethyl sulphide	0	0.2
n-Butane	0	0.2	Ethyl mercaptan	0	0.3
n-Propane	0	0.07	Ethyl sulphide	0	0.3
Propylene	0	0.1	Hydrogen sulphide	0	0.3
Propyne	0	0.1	Isobutyl mercaptan	0	0.3
trans-2-Butene	0	0.09	Isopropyl mercaptan	0	0.3
			Methyl mercaptan	0	0.2
			Pentyl mercaptan	0	0.4
			Propyl mercaptan	0	0.4
			tert-Butyl mercaptan	0	0.3
			Thiophene	0	0.2
			1,1,1-Trichloroethane	0	0.02
			1,1,2,2-Tetrachloroethane	0	0.02
			1,1,2-Trichloroethane	0	0.02
			1,1-Dichloroethane	0	0.02
			1,1-Dichloroethylene	0	0.04
			1,2,3-Trimethylbenzene	0	0.05
			1,2,4-Trichlorobenzene	0	0.8
			1,2,4-Trimethylbenzene	0	0.05
			1,2-Dibromoethane	0	0.02
			1,2-Dichlorobenzene	0	0.03
			1,2-Dichloroethane	0	0.01
			1,2-Dichloropropane	0	0.01
			1,3,5-Trimethylbenzene	0	0.02
			1,3-Butadiene	0	0.02
			1,3-Dichlorobenzene	0	0.3
			1,4-Dichlorobenzene	0	0.4
			1,4-Dioxane	0	0.4
			1-Butene/Isobutylene	1.1	0.02
			1-Hexene/2-Methyl-1-pentene	0	0.02
			1-Pentene	0	0.01
			2,2,4-Trimethylpentane	0	0.01
			2,2-Dimethylbutane	0	0.01
			2,3,4-Trimethylpentane	0	0.01
			2,3-Dimethylbutane	0	0.02
			2,3-Dimethylpentane	0	0.02
			2,4-Dimethylpentane	0	0.01
			2-Methylheptane	0	0.01
			2-Methylhexane	0	0.01
			2-Methylpentane	0	0.01
			3-Methylheptane	0	0.02
			3-Methylhexane	0	0.02
			3-Methylpentane	0.09	0.01
			Acetone	0	0.4
			Acrolein	0	0.3
			Benzene	0	0.01
			Benzyl chloride	0	0.4
			Bromodichloromethane	0	0.02
			Bromoform	0	0.02
			Bromomethane	0	0.01
			Carbon disulfide	0	0.01
			Carbon tetrachloride	0	0.01
			Chlorobenzene	0	0.02
			Chloroethane	0	0.02
			Chloroform	0	0.02
			Chloromethane	0	0.02
			cis-1,2-Dichloroethene	0	0.01
			cis-1,3-Dichloropropene	0	0.04
			cis-2-Butene	0	0.02
			cis-2-Pentene	0	0.02
			Cyclohexane	0	0.02
			Cyclopentane	0	0.01
			Dibromochloromethane	0	0.01
			Ethanol	1	0.3
			Ethyl acetate	0	0.4
			Ethylbenzene	0	0.01
			Freon-11	0	0.02
			Freon-113	0	0.01
			Freon-114	0	0.02
			Freon-12	0.02	0.02
			Hexachloro-1,3-butadiene	0	0.50
			Isobutane	0.67	0.02
			Isopentane	0	0.03



PEACE RIVER AREA MONITORING PROGRAM

986c Site - January 2021

Volatile Organic Compounds (VOCs) Results

Sample Date/Time Canister Sample Canister ID		2021-02-26 @09:10 Blank 28968					
Method		NA-025		Method		NA-024	
Maximum Reading (ppmv)		-		Maximum Reading (ppmv)		-	
Method		NA-025		Method		AC-058	
Maximum Reading (ppmv)		-		Maximum Reading (ppmv)		1.1 1-Butene/Isobutylene	
Parameter	Result (ppmv)	RDL (ppmv)	Parameter	Result (ppbv)	RDL (ppbv)	Parameter	Result (ppbv)
						Isoprene	0
						Isopropyl alcohol	0
						Isopropylbenzene	0
						m,p-Xylene	0
						m-Diethylbenzene	0
						m-Ethyltoluene	0
						Methyl butyl ketone	0
						Methyl ethyl ketone	0
						Methyl isobutyl ketone	0
						Methyl methacrylate	0
						Methyl tert butyl ether	0
						Methylcyclohexane	0
						Methylcyclopentane	0
						Methylene chloride	0
						n-Butane	0.76
						n-Decane	0
						n-Dodecane	0
						n-Heptane	0
						n-Hexane	0
						n-Nonane	0
						n-Octane	0
						n-Pentane	0
						n-Propylbenzene	0
						n-Undecane	0
						Naphthalene	0
						o-Ethyltoluene	0
						o-Xylene	0
						p-Diethylbenzene	0
						p-Ethyltoluene	0
						Styrene	0
						Tetrachloroethylene	0
						Tetrahydrofuran	0
						Toluene	0
						trans-1,2-Dichloroethylene	0
						trans-1,3-Dichloropropylene	0
						trans-2-Butene	0
						trans-2-Pentene	0
						Trichloroethylene	0
						Vinyl acetate	0
						Vinyl chloride	0

END OF REPORT

This page, 227 of 227, ends the February 2021 Monthly Ambient Air Quality Monitoring Report.



Peace River Area Monitoring Program

FEBRUARY 2021

Ambient Air Monitoring Calibration Report

- 842b STATION-

CAL-PRAMP-202102-01561

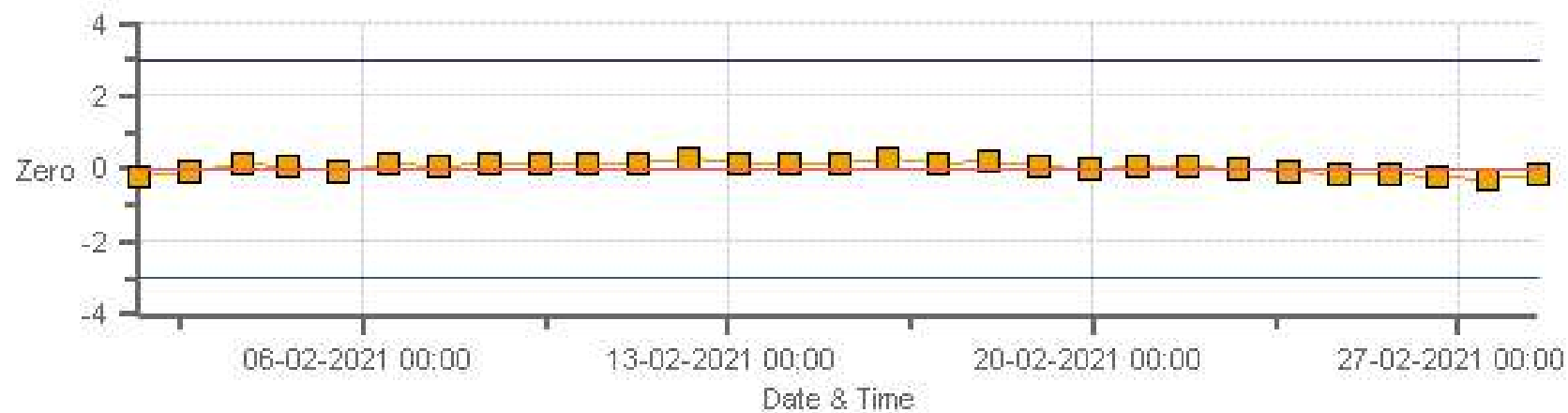
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

March 18, 2021

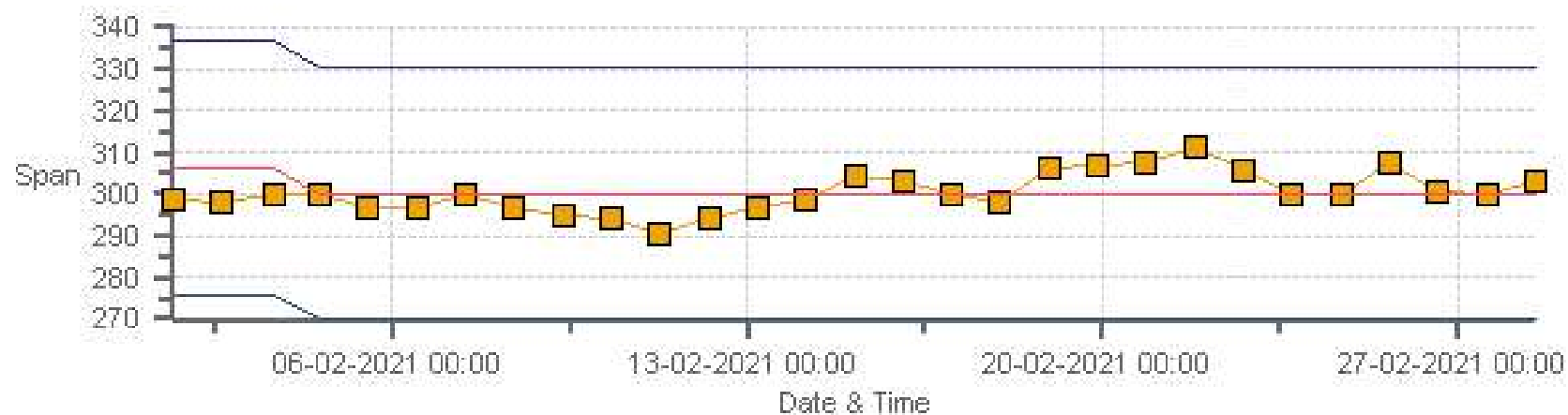
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO₂[ppb] Calibration: PRAMP 842b Monthly: 02-2021 Type: SpanAndZero - Zero



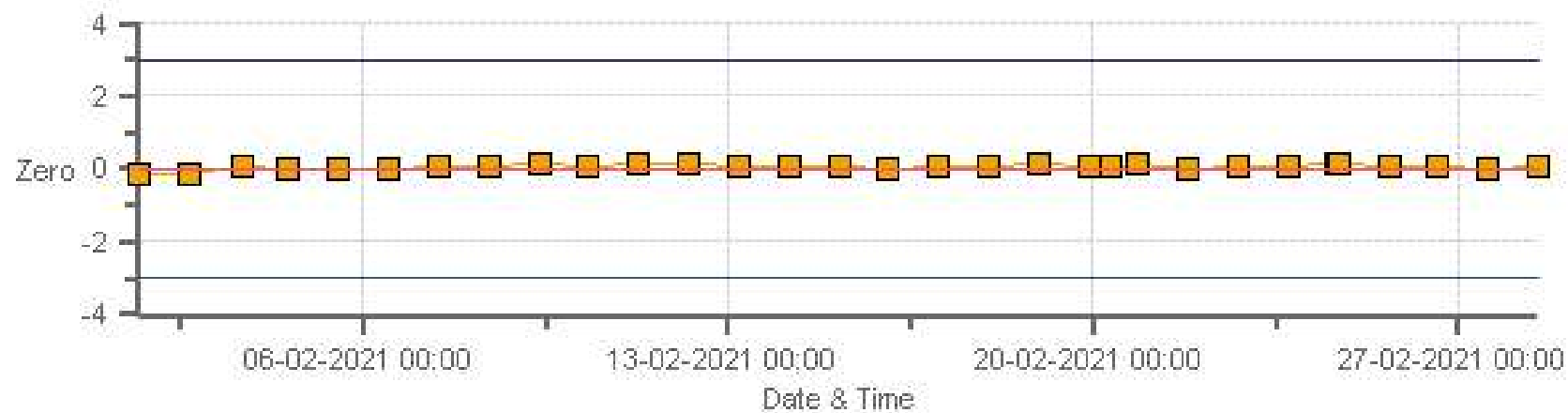
Zero Zero Ref Zero Low Zero High

SO₂[ppb] Calibration: PRAMP 842b Monthly: 02-2021 Type: SpanAndZero - Span



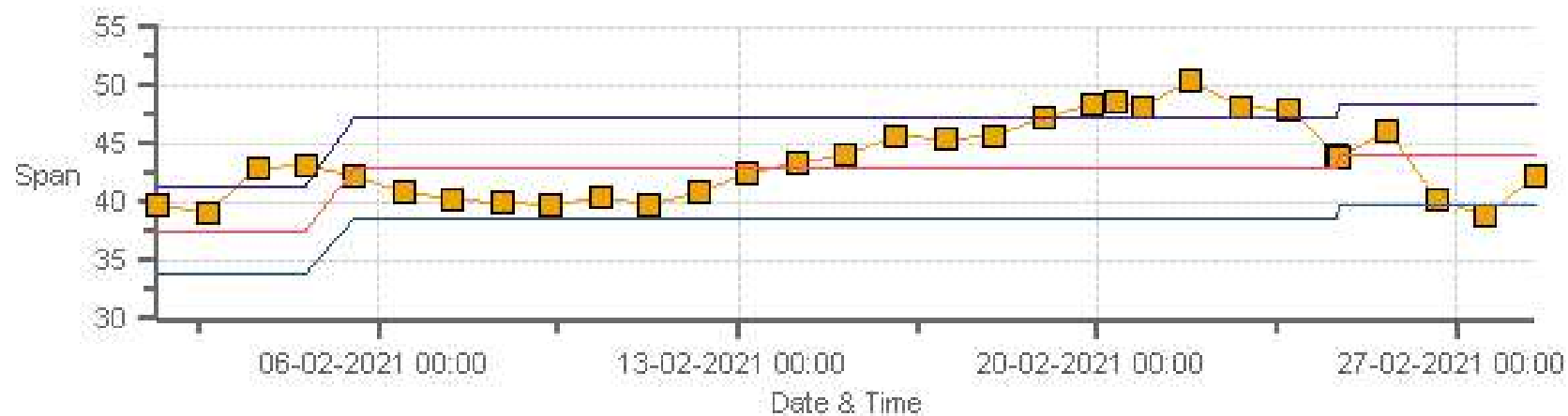
Span Span Ref Span Low Span High

TRS[ppb] Calibration: PRAMP 842b Monthly: 02-2021 Type: SpanAndZero - Zero



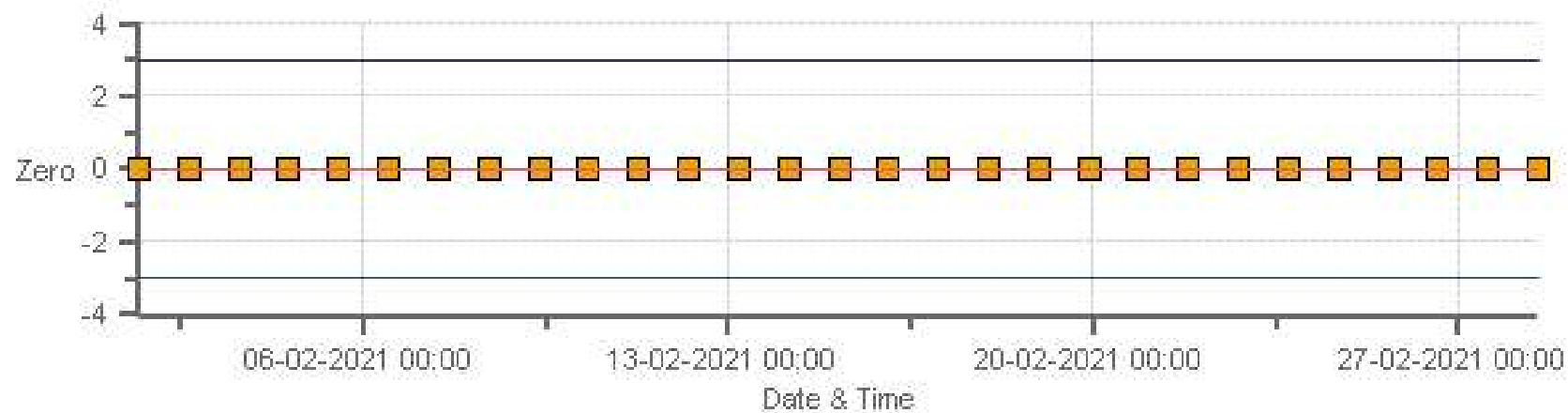
 Zero
 Zero Ref
 Zero Low
 Zero High

TRS[ppb] Calibration: PRAMP 842b Monthly: 02-2021 Type: SpanAndZero - Span



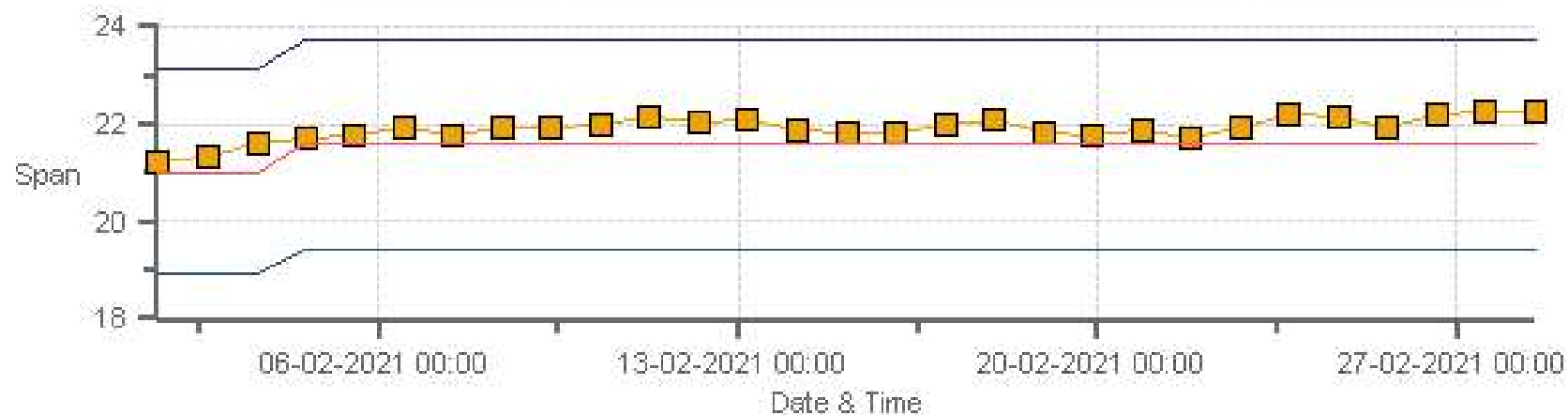
 Span
  SpanRef
  Span Low
  Span High

THC55[ppm] Calibration: PRAMP 842b Monthly: 02-2021 Type: SpanAndZero - Zero



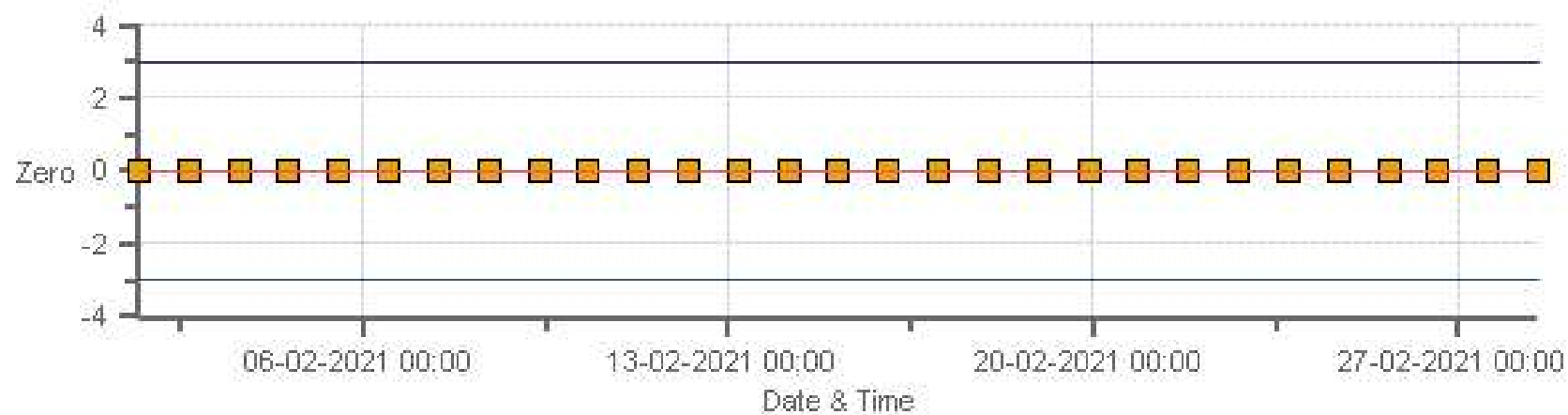
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: PRAMP 842b Monthly: 02-2021 Type: SpanAndZero - Span



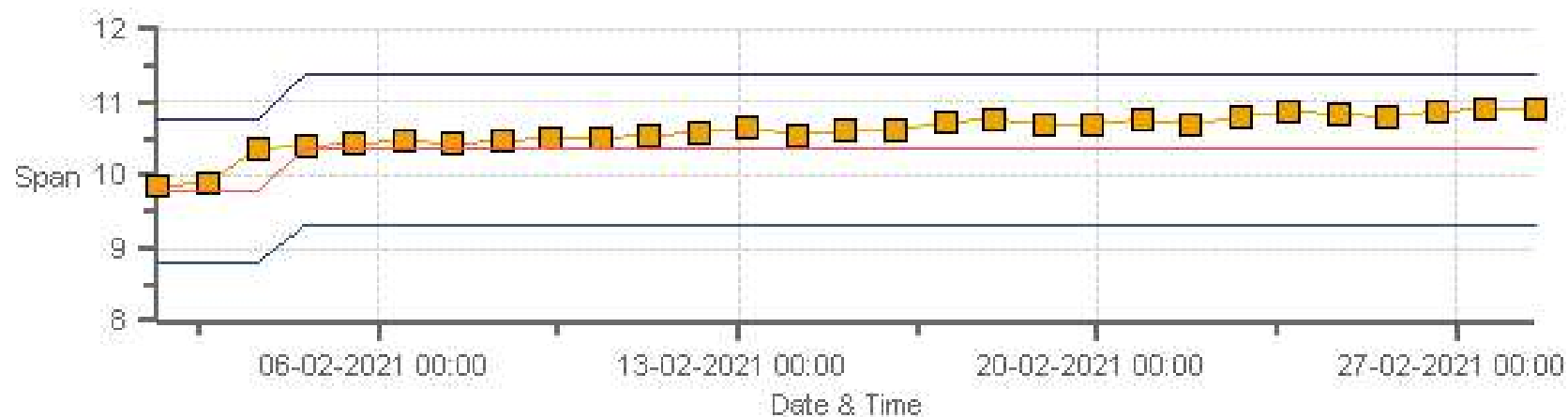
Span Span Ref Span Low Span High

CH4[ppm] Calibration: PRAMP 842b Monthly: 02-2021 Type: SpanAndZero - Zero



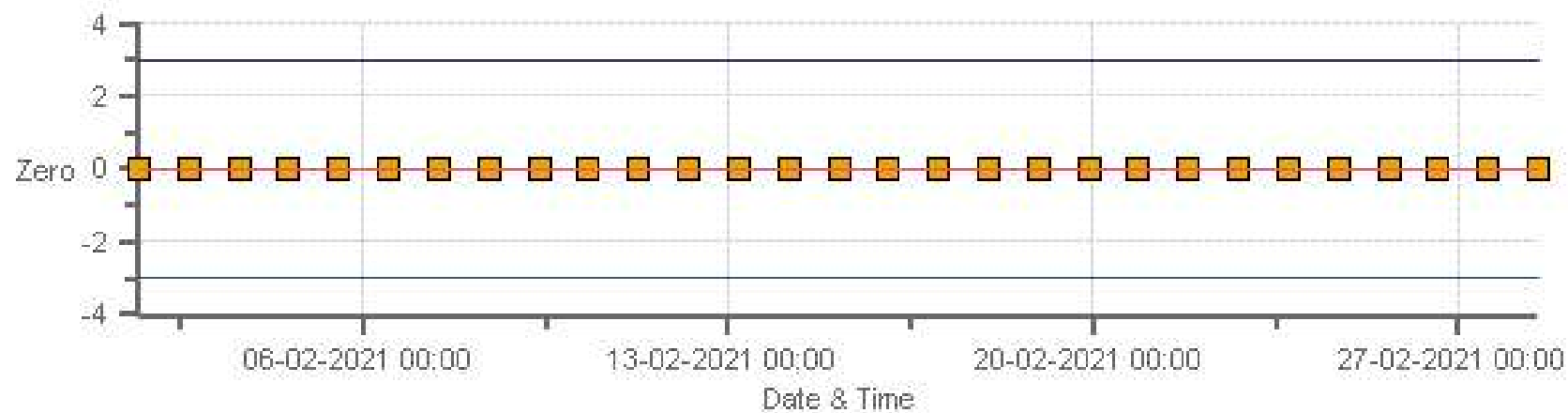
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: PRAMP 842b Monthly: 02-2021 Type: SpanAndZero - Span



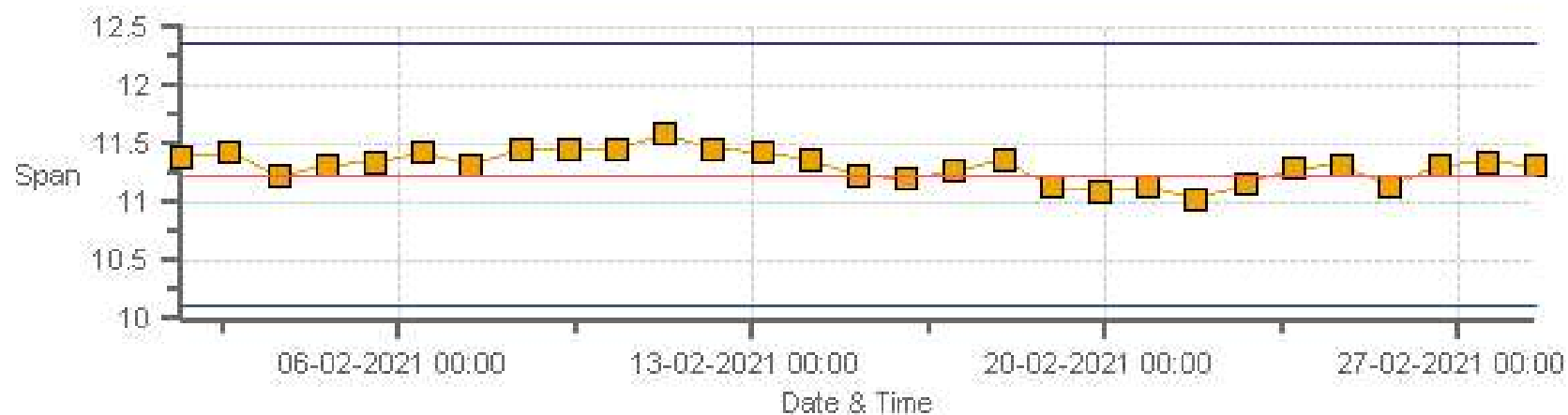
Span SpanRef Span Low Span High

NMHC[ppm] Calibration: PRAMP 842b Monthly: 02-2021 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP 842b Monthly: 02-2021 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	03-Feb-2021	PREVIOUS CALIBRATION DATE:	05-Jan-2021
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.2
LOCATION:	842b	BAROMETRIC (mBar):	945
PURPOSE:	Routine	START TIME (MST):	10:47
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	16:05

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	427
INITIAL		FINAL	
BKG/OFFSET	8.1	BKG/OFFSET	8.1
COEF/SLOPE	1.067	COEF/SLOPE	1.081
Expected (reference) Value	306.4	Expected (reference) Value	300.2

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	5004
MFC CALIBRATION DATE:	25-Jan-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002357	HIGH ID	n/a
CONC (ppm):	24.90	EXPIRY DATE	n/a
CYLINDER (psi):	1900	LOW ID	n/a
EXPIRY DATE	13-Nov-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	390	190	95
RANGE	300 - 400	150 - 200	50 - 100

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001	61.10	4001	0.00	-0.2	0	1.017	1.000
3941	61.10	4002	380.16	373.7	380.1	1.017	1.000
3974	28.90	4003	179.77	n/a	182.3	n/a	0.986
3987	14.50	4001	90.24	n/a	91.2	n/a	0.989

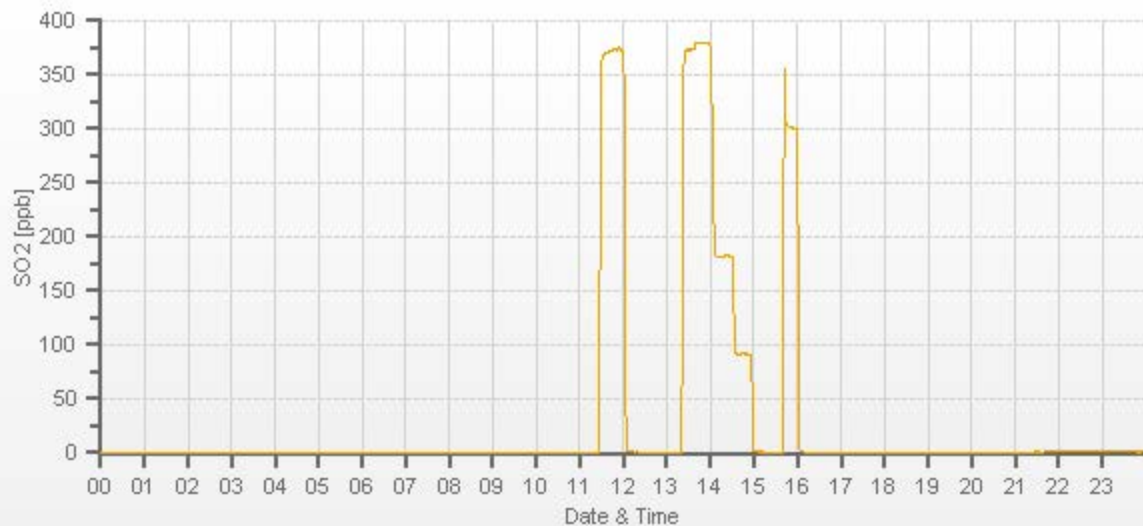
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.2%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

SO2[ppb] Station: PRAMP 842b Daily: 03-02-2021 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202102-01561

TRS Analyzer Calibration by Dilution



DATE:	03-Feb-2021	PREVIOUS CALIBRATION DATE:	28-Jan-2021
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.2
LOCATION:	842b	BAROMETRIC (mBar):	945
PURPOSE:	Routine	START TIME (MST):	10:47
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	16:05

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100 ppb
SERIAL #	1162460023	FLOW (mL/min)	392
INITIAL		FINAL	
BKG/OFFSET	3.37	BKG/OFFSET	3.59
COEF/SLOPE	1.031	COEF/SLOPE	1.137
Expected (reference) Value	37.53	Expected (reference) Value	42.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	5004
MFC CALIBRATION DATE:	25-Jan-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0000644	HIGH ID	n/a
CONC (ppm):	10.00	EXPIRY DATE	n/a
CYLINDER (psi):	1100	LOW ID	n/a
EXPIRY DATE	16-Jul-2022	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

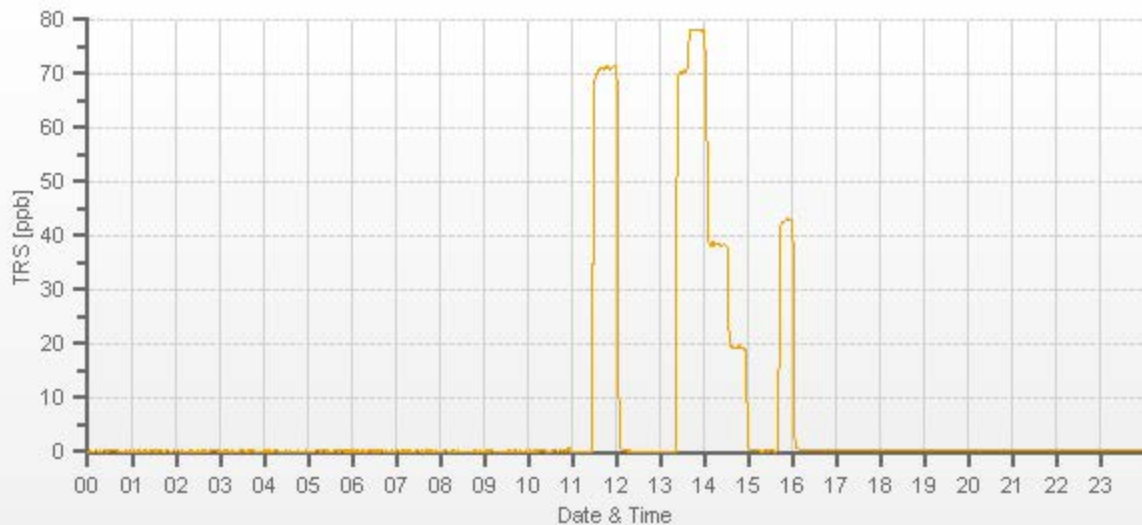
FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001	31.20	4001	0.00	-0.19	0	1.092	1.000
3971	31.20	4002	77.96	71.23	77.96	1.092	1.000
3988	15.20	4003	37.97	n/a	38.3	n/a	0.991
3993	7.60	4001	19.00	n/a	19.03	n/a	0.998

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.



TRS Analyzer Calibration by Dilution



DATE:	24-Feb-2021	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	842b	BAROMETRIC (mBar):	942
PURPOSE:	Install/Post-Repair	START TIME (MST):	12:38
PERFORMED BY:	Limin Li	END TIME (MST):	15:40

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100 ppb
SERIAL #	1162460023	FLOW (mL/min)	389
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	3.27
COEF/SLOPE	n/a	COEF/SLOPE	1.048
Expected (reference) Value	n/a	Expected (reference) Value	44.07

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	Teledyne
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	28-Sep-2020	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0001074	HIGH ID	n/a
CONC (ppm):	10.00	EXPIRY DATE	n/a
CYLINDER (psi):	1600	LOW ID	n/a
EXPIRY DATE	16-Jul-2022	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	12:59	SO2 Conc (ppb)	380
END TIME:	13:19	Analyzer Response (ppb)	0.1

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500	58.50	7500	0.00	n/a	0	n/a	1.000
7442	58.50	7500	78.00	n/a	78	n/a	1.000
7472	28.50	7500	38.00	n/a	37.7	n/a	1.008
7486	14.25	7500	19.00	n/a	18.9	n/a	1.005

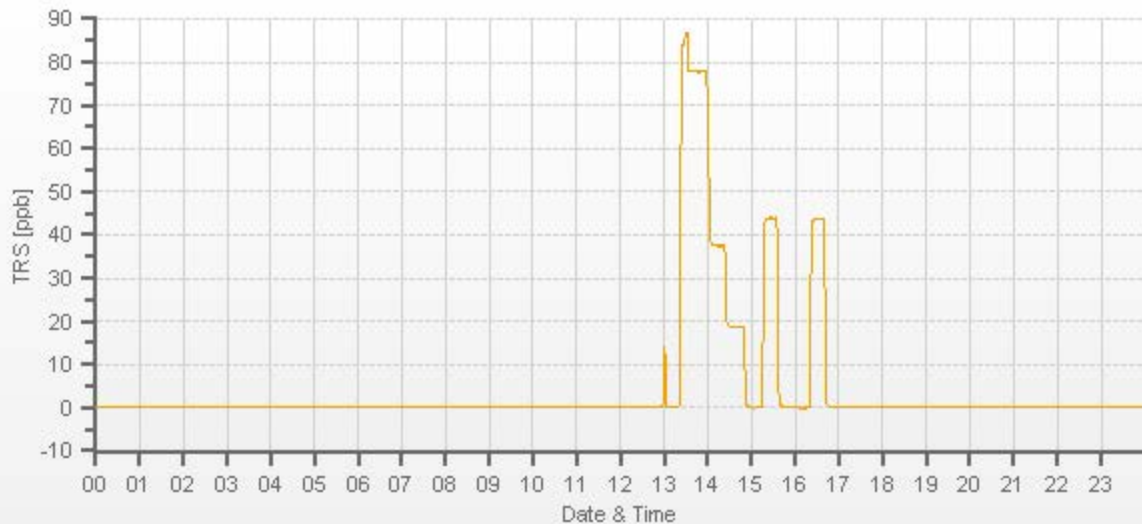
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	-0.1%

COMMENTS:

Post-repair following SO2 scrubber renewal.

TRS[ppb] Station: PRAMP 842b Daily: 24-02-2021 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202102-01561

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	03-Feb-2021	PREVIOUS CALIBRATION DATE:	05-Jan-2021	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	21.2		Thermo 55i	1501663728	1118.6
LOCATION:	842b	BAROMETRIC (mBar):	945	PARAMETER:	CH4	NMHC	THC
PURPOSE:	Routine	START TIME (MST):	10:47	RANGE (ppm):	20	20	40
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	15:21	PREVIOUS CF:	0.997	1.002	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL84567	HIGH ID:	148944
MODEL:	2010	MODEL:	M701	CH ₄ /C ₃ H ₈ (ppm):	591.0 200.0	HIGH EXPIRY:	16-Nov-2021
ID:	17100415	ID:	5004	CYLINDER (psi):	1180	LOW ID:	152019
MFC CALIBRATION DATE:	n/a	OXIDIZER ID:	Internal	EXPIRY DATE	17-Jul-2027	LOW EXPIRY:	16-Nov-2021

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	550.0
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1141.0

EXPECTED (REFERENCE) VALUE:

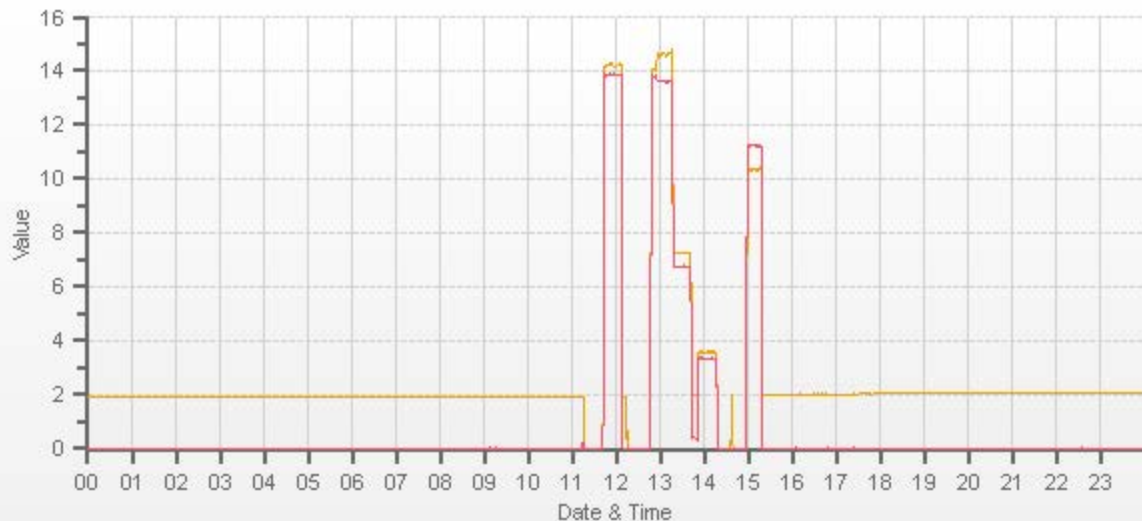
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	9.78	11.23	21.01		10.36	11.23	21.59

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
2993	X	2993	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
2915	74.02	2989	14.64	13.62	28.26	14.22	13.85	28.07	14.66	13.61	28.27	1.029	0.984	1.007	0.998	1.001	1.000
2959	36.81	2996	7.26	6.76	14.02	n/a	n/a	n/a	7.27	6.75	14.02	n/a	n/a	n/a	0.999	1.001	1.000
2986	18.40	3004	3.62	3.37	6.99	n/a	n/a	n/a	3.59	3.34	6.93	n/a	n/a	n/a	1.009	1.009	1.009

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:			
CH ₄	1.000	1.002	-0.1%	Sample filter changed. Monthly calibration - no issues.			
NMHC	1.000	1.000	-0.1%				
THC	1.000	1.001	-0.1%				
				Use Zero Chrom?		No	



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Page 16 of 18
CH4 [ppm] NMHC [ppm]

Meteorological System Checklist



Date:	February 3, 2021		
Technician:	Ferdinand Roy		
Station:	PRAMP 842b		
Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	15878
Temperature Sensor:	Rotronic	HC2A-S3	20370767
Barometric Pressure Sensor:	MetOne	92	Y23362
Relative Humidity Sensor:	Rotronic	HC2A-S3	20370767
Anemometer:	RM Young	05305AQ	174802
PRECIPITATION SENSOR CHECK			
Checklist:	Reply:	Comments:	
Previous check date:	January 5, 2021		
Is the heater operating properly?	yes		
Are the bucket drain holes clean?	yes		
Is the housing clean?	yes		
Is the area around the housing clean and free from obstacles?	yes		
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	January 5, 2021		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	Fisher #160348895/ 04-Sep-2022		
Reference Temperature (°C):	-22.5		
Station - Ambient Temperature (°C):	-21.8		
Temperature Difference (°C):	-0.7		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	January 5, 2021		
Reference Barometer ID:	F>S. 10528 expires Feb 26, 2021		
Reference Pressure - Units/Reading:	millibar	945	
Station Pressure - Units/Reading:	millibar	946.1	
Pressure Tolerance +/- 15% of error:	803 - 1087		
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	January 5, 2021		
Reference Hygrometer ID:	Fisher #160348895/ 04-Sep-2022		
Reference Hygrometer % RH- Reading:	76.72		
Station Hygrometer % RH- Reading:	77.40		
RH Tolerance +/- 15% of difference:	65.21 - 88.23	-0.9%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:		Previous check date:	January 5, 2021
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	S
Wind speed on Data Logger (kph):	12.7	Wind Direction on Data Logger:	S
		Wind Direction Pass/Fail?:	Pass
Comments			
Windspeed observed at 14:43. Wind Direction observed at 14:44.			



Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	Performed By:	Chris Wesson
Audit Location:	842b	Reviewed By:	Ferdinand Roy
Audit Date:	December 16, 2020	Start/End Time (mst):	16:48 / 17:04
Calibration Purpose:	installation	Weather Conditions:	Light snow

Wind Sensor Information

Sensor ID Data:		Sensor Outputs:	
Sensor Make:	RM Young	Velocity Voltage Output Range:	n/a
Sensor Model:	05305AQ	Velocity Unit Output Range:	0-180
Serial #:	174802	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	n/a	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young #R9133 Exp: Aug 06, 2022

Wind Speed Audit Data ****+/- 2% of the average correction factor is the limit****

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.3	18.3	1.007
2000	36.9	36.7	36.7	1.004
3000	55.3	55.1	55.1	1.003
4000	73.7	73.6	73.6	1.002
5000	92.2	92.0	92.0	1.002
6000	110.6	110.5	110.5	1.001
7000	129.0	128.9	128.9	1.001
8000	147.4	147.3	147.3	1.001
9000	165.9	165.8	165.8	1.000
10000	184.3	184.2	184.2	1.001
The audit meets AMD requirements.			Average Correction Factor=	1.002

Wind Direction Audit Data ****+/- 3° of the absolute average degrees difference for all points is the limit****

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	0	353	0.0	2.0	1.0
30	330	28	328	2.0	2.0	2.0
60	300	58	298	2.0	2.0	2.0
90	270	88	269	2.0	1.0	1.5
120	240	119	239	1.0	1.0	1.0
150	210	149	210	1.0	0.0	0.5
180	180	179	179	1.0	1.0	1.0
210	150	211	149	-1.0	1.0	1.0
240	120	240	118	0.0	2.0	1.0
270	90	270	88	0.0	2.0	1.0
300	60	299	58	1.0	2.0	1.5
330	30	330	28	0.0	2.0	1.0
355	0	354	0	1.0	0.0	0.5
The audit meets AMD requirements.				Average Absolute Degrees Difference=		1.2

Comments:

Signal translated via RMYoung32400
Declination = 16°E



Peace River Area Monitoring Program

FEBRUARY 2021

Ambient Air Monitoring Calibration Report

- 986c STATION-

CAL-PRAMP-202102-01562

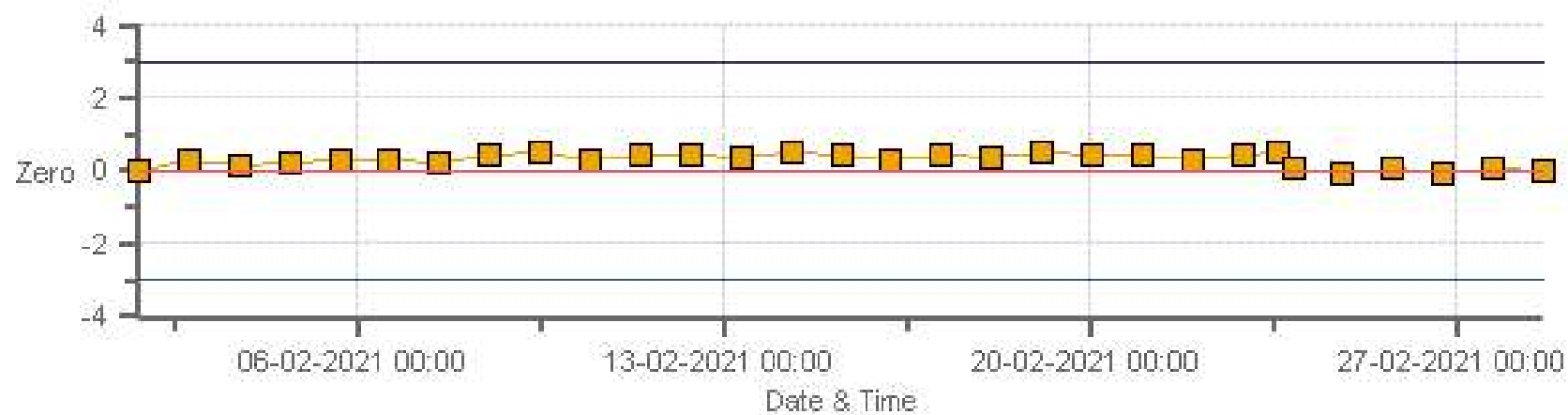
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

March 18, 2021

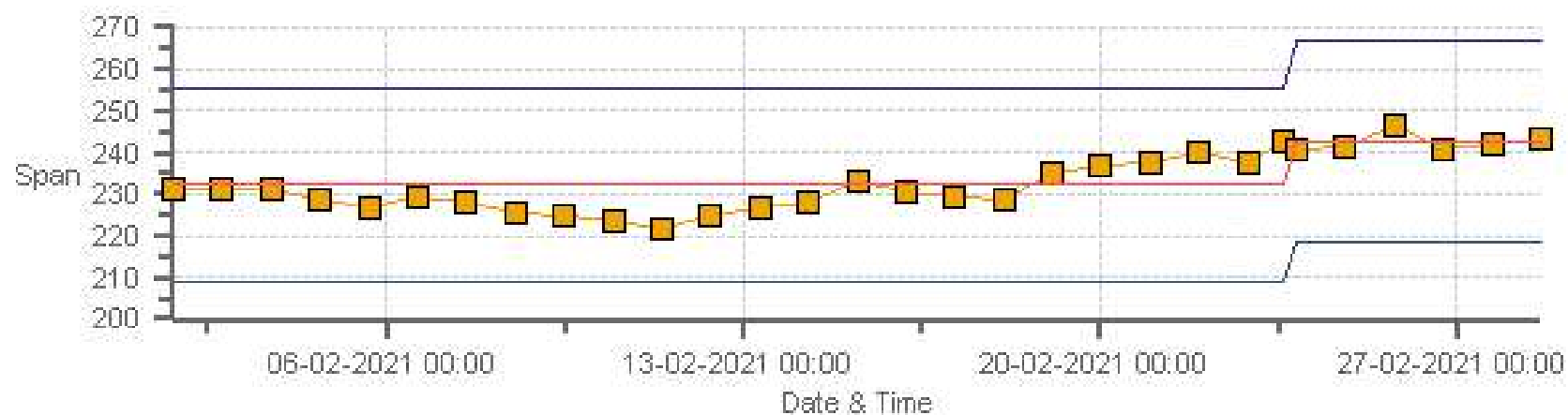
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP 986c Monthly: 02-2021 Type: SpanAndZero - Zero



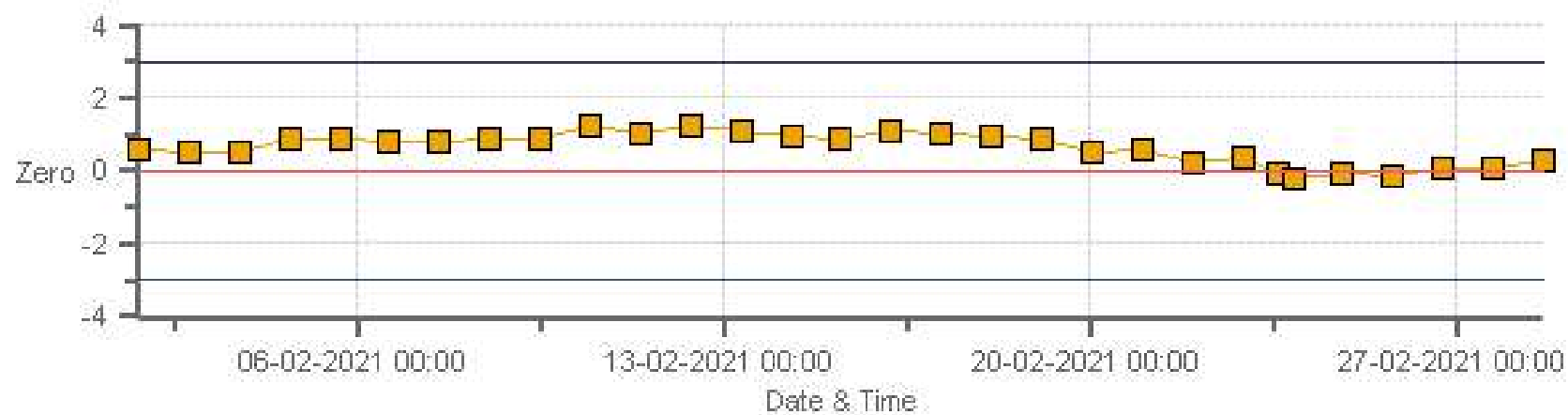
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: PRAMP 986c Monthly: 02-2021 Type: SpanAndZero - Span



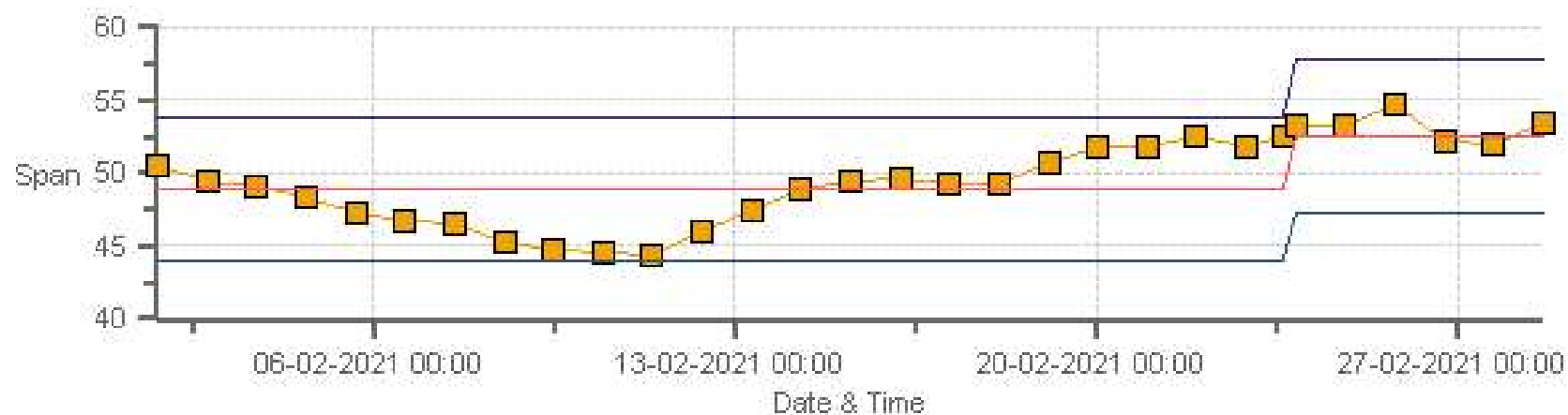
Span SpanRef Span Low Span High

TRS[ppb] Calibration: PRAMP 986c Monthly: 02-2021 Type: SpanAndZero - Zero



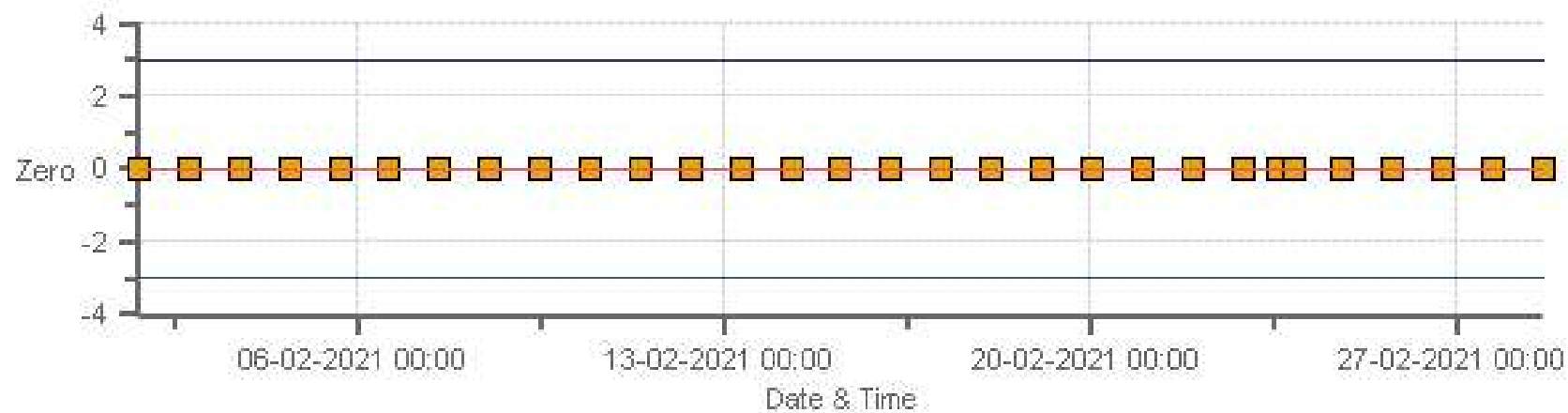
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: PRAMP 986c Monthly: 02-2021 Type: SpanAndZero - Span



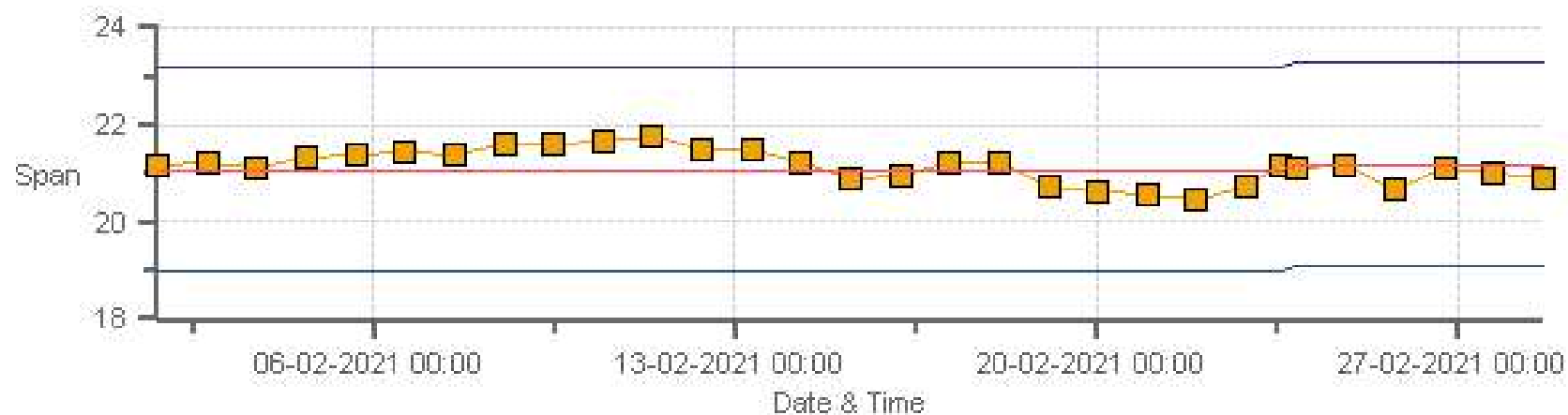
Span Span Ref Span Low Span High

THC55[ppm] Calibration: PRAMP 986c Monthly: 02-2021 Type: SpanAndZero - Zero



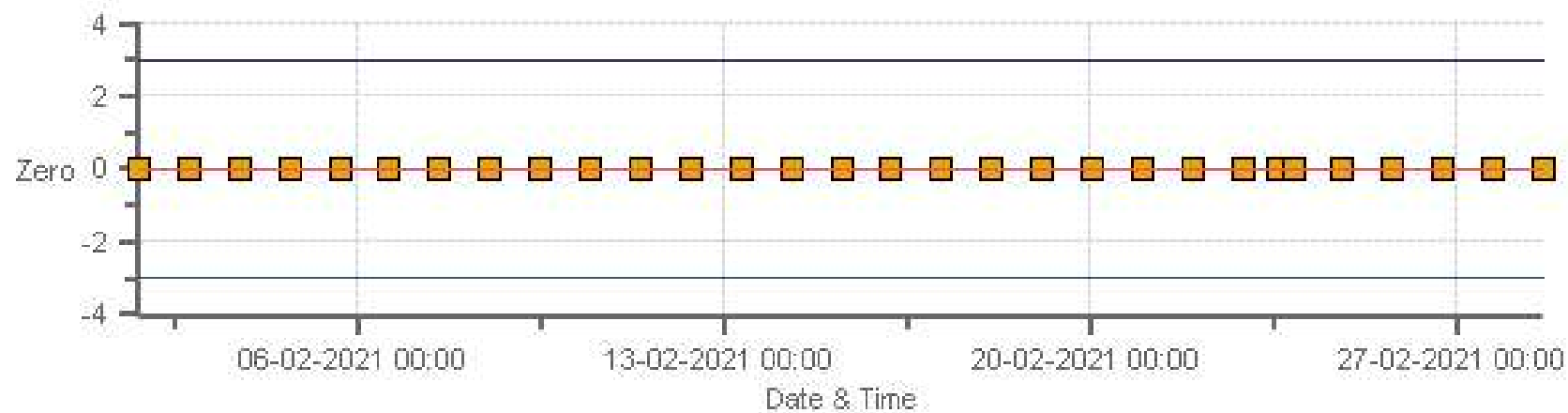
 Zero
 Zero Ref
 Zero Low
 Zero High

THC55[ppm] Calibration: PRAMP 986c Monthly: 02-2021 Type: SpanAndZero - Span



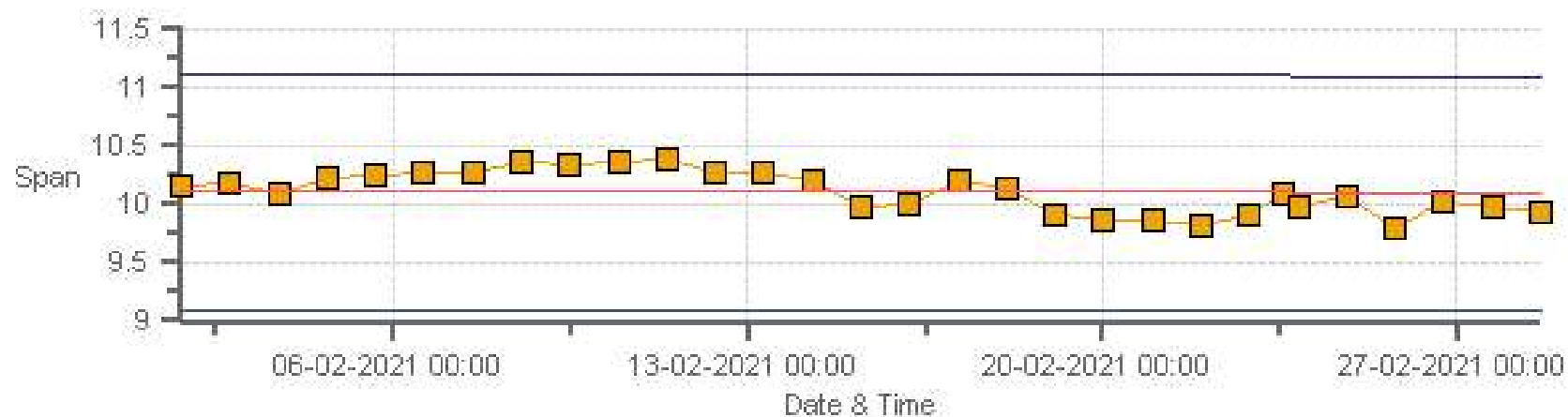
 Span
 SpanRef
 Span Low
 Span High

CH4[ppm] Calibration: PRAMP 986c Monthly: 02-2021 Type: SpanAndZero - Zero



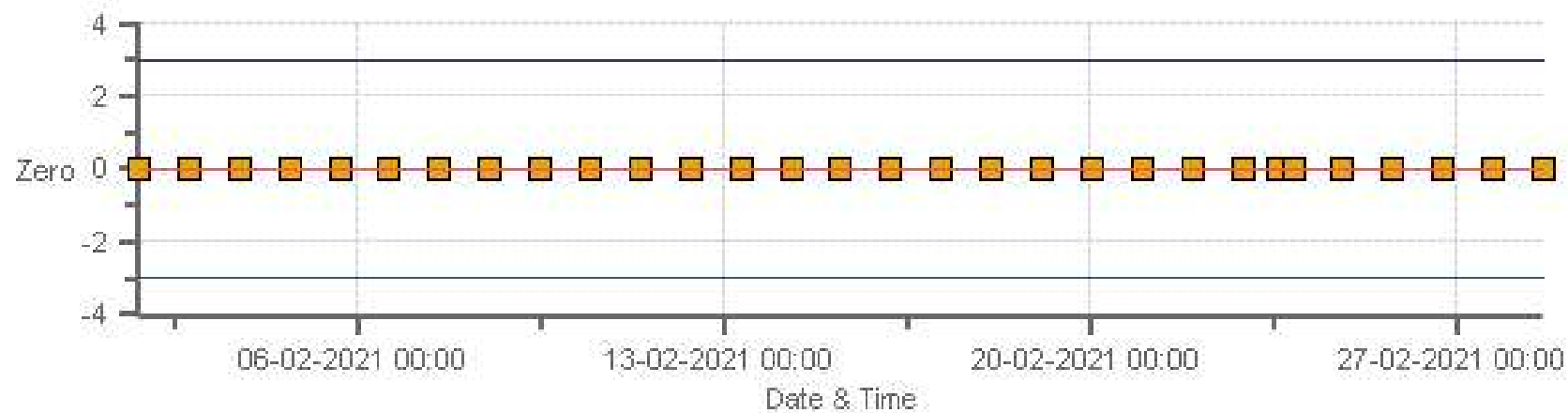
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: PRAMP 986c Monthly: 02-2021 Type: SpanAndZero - Span



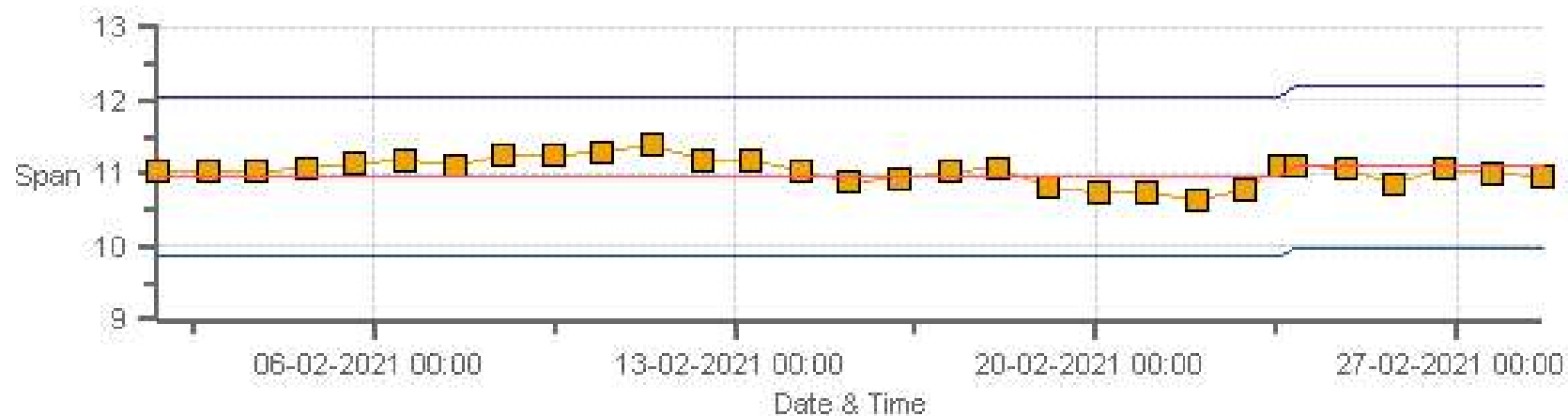
Span SpanRef Span Low Span High

NMHC[ppm] Calibration: PRAMP 986c Monthly: 02-2021 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP 986c Monthly: 02-2021 Type: SpanAndZero - Span



 Span
 SpanRef
 Span Low
 Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	23-Feb-2021	PREVIOUS CALIBRATION DATE:	18-Jan-2021
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.4
LOCATION:	986C	BAROMETRIC (mBar):	932
PURPOSE:	Routine	START TIME (MST):	09:10
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:30

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	426
INITIAL		FINAL	
BKG/OFFSET	11.9	BKG/OFFSET	12.6
COEF/SLOPE	1.008	COEF/SLOPE	1.042
Expected (reference) Value	232.2	Expected (reference) Value	242.4

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	5004
MFC CALIBRATION DATE:	25-Jan-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002357	HIGH ID	n/a
CONC (ppm):	24.90	EXPIRY DATE	n/a
CYLINDER (psi):	1690	LOW ID	n/a
EXPIRY DATE	13-Nov-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	390	190	95
RANGE	300 - 400	150 - 200	50 - 100

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001	61.10	4001	0.00	0.4	0	1.037	1.000
3941	61.10	4002	380.16	366.9	380	1.037	1.000
3973	28.90	4002	179.81	n/a	182.6	n/a	0.985
3987	14.50	4001	90.24	n/a	91.9	n/a	0.982

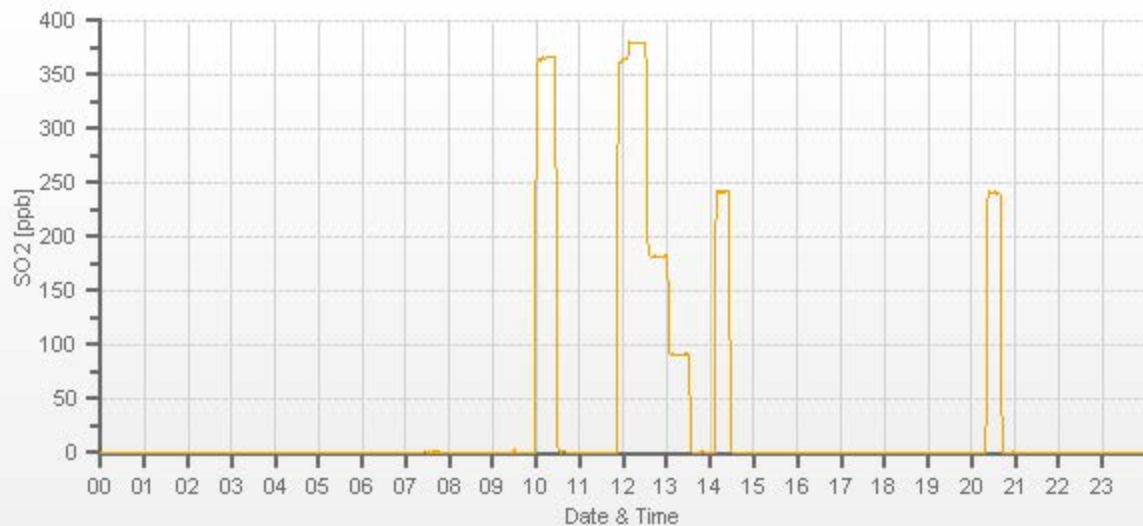
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.3%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

SO2[ppb] Station: PRAMP 986c Daily: 23-02-2021 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202102-01562

TRS Analyzer Calibration by Dilution



DATE:	23-Feb-2021	PREVIOUS CALIBRATION DATE:	18-Jan-2021
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.4
LOCATION:	986C	BAROMETRIC (mBar):	932
PURPOSE:	Routine	START TIME (MST):	09:10
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:31

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	425
INITIAL		FINAL	
BKG/OFFSET	13.3	BKG/OFFSET	14
COEF/SLOPE	0.92	COEF/SLOPE	0.956
Expected (reference) Value	48.94	Expected (reference) Value	52.56

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	5004
MFC CALIBRATION DATE:	25-Jan-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0000644	HIGH ID	n/a
CONC (ppm):	10.00	EXPIRY DATE	n/a
CYLINDER (psi):	1000	LOW ID	n/a
EXPIRY DATE	16-Jul-2022	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001	31.20	4001	0.00	0.11	0	1.023	1.000
3971	31.20	4002	77.96	76.33	77.95	1.023	1.000
3987	15.20	4002	37.98	n/a	38.38	n/a	0.990
3993	7.60	4001	19.00	n/a	19.28	n/a	0.985

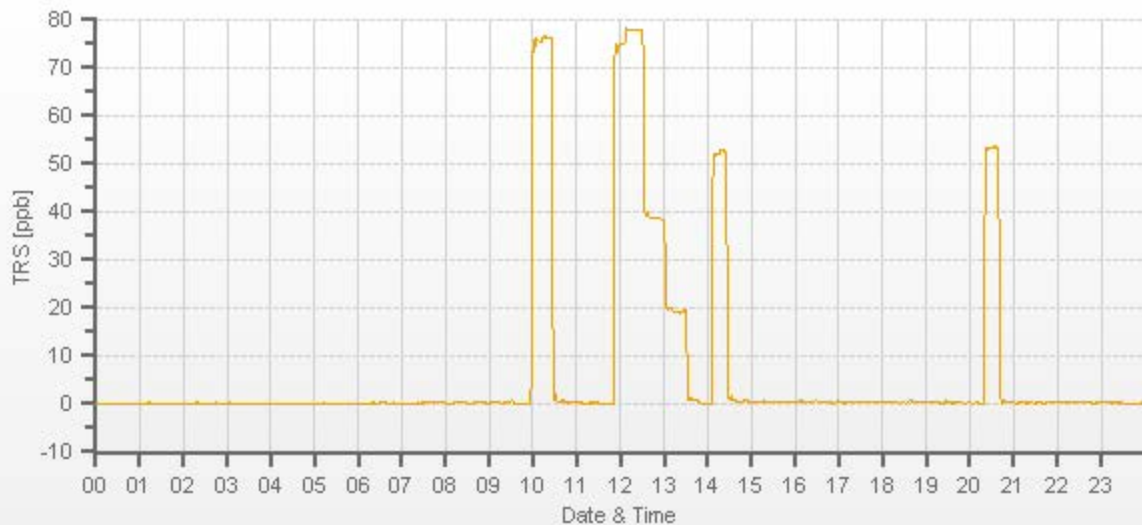
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.2%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

TRS[ppb] Station: PRAMP 986c Daily: 23-02-2021 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202102-01562

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	23-Feb-2021	PREVIOUS CALIBRATION DATE:	18-Jan-2021	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	22.4		Thermo 55i	1193585652	1275.8
LOCATION:	986C	BAROMETRIC (mBar):	932	PARAMETER:	CH4	NMHC	THC
PURPOSE:	Routine	START TIME (MST):	09:10	RANGE (ppm):	20	20	40
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	13:35	PREVIOUS CF:	0.998	0.999	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL84567	HIGH ID:	148944
MODEL:	2010	MODEL:	M701	CH ₄ /C ₃ H ₈ (ppm):	591.0 200.0	HIGH EXPIRY:	16-Nov-2021
ID:	17100415	ID:	5004	CYLINDER (psi):	1150	LOW ID:	152019
MFC CALIBRATION DATE:	n/a	OXIDIZER ID:	Internal	EXPIRY DATE	17-Jul-2027	LOW EXPIRY:	16-Nov-2021

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	550.0
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1141.0

EXPECTED (REFERENCE) VALUE:

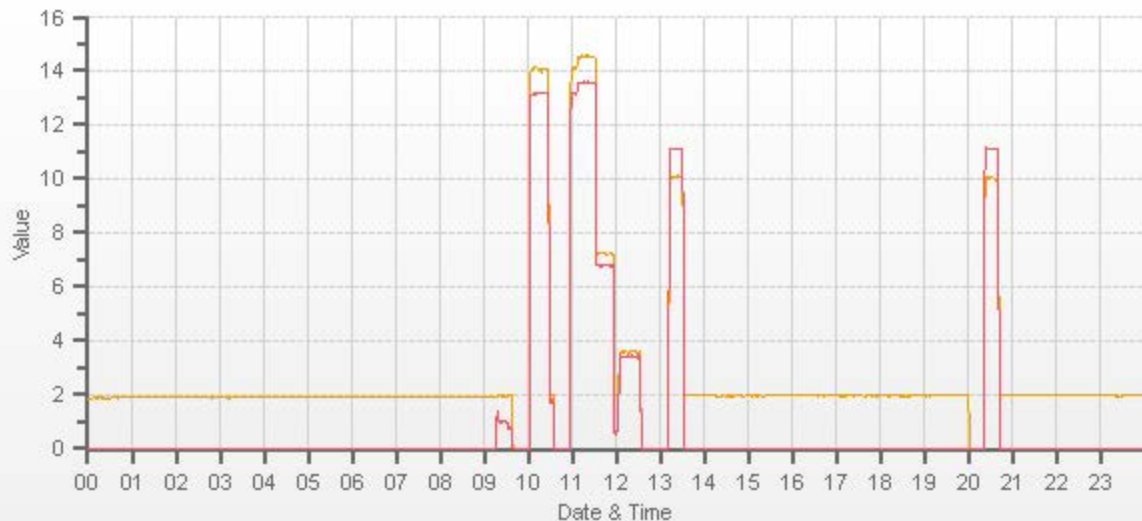
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	10.11	10.96	21.07		10.09	11.10	21.19

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3238	X	3238	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
3126	78.94	3205	14.55	13.54	28.10	14.09	13.17	27.27	14.53	13.54	28.08	1.033	1.028	1.030	1.002	1.000	1.001
3178	39.29	3218	7.22	6.72	13.93	n/a	n/a	n/a	7.25	6.78	14.03	n/a	n/a	n/a	0.995	0.990	0.993
3197	19.54	3216	3.59	3.34	6.93	n/a	n/a	n/a	3.60	3.41	7.01	n/a	n/a	n/a	0.998	0.980	0.989

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:			
CH ₄	1.000	0.998	0.1%	Sample filter changed. Monthly calibration - no issues.			
NMHC	1.000	0.998	0.2%				
THC	1.000	0.999	0.1%				
				Use Zero Chrom?	No		



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Page 14 of 16
CH4 [ppm] NMHC [ppm]

Meteorological System Checklist



Date:	February 23, 2021		
Technician:	Ferdinand Roy		
Station:	PRAMP 986c		
Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	EML	ARG100	190114
Temperature Sensor:	Rotronic	HC2-S3	20357528
Barometric Pressure Sensor:	MetOne	092	Y23358
Relative Humidity Sensor:	Rotronic	HC2-S3	20357528
Anemometer:	RM Young	05305L	174795
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	January 18, 2021		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	F.S. 160348895 expires Sep 4, 2022		
Reference Temperature (°C):	-0.2		
Station - Ambient Temperature (°C):	-0.9		
Temperature Difference (°C):	0.7		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	January 18, 2021		
Reference Barometer ID:	Reference Barometer ID: F.S. 10528 expires February 17, 2022		
Reference Pressure - Units/Reading:	millibar	936	
Station Pressure - Units/Reading:	millibar	938.5	
Pressure Tolerance +/- 15% of error:	796 - 1076	-0.27%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	January 18, 2021		
Reference Hygrometer ID:	F.S. 160348895 expires Sep 4, 2022		
Reference Hygrometer % RH- Reading:	71.55		
Station Hygrometer % RH- Reading:	79.10		
RH Tolerance +/- 15% of difference:	60.82 - 82.28	-10.6%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	January 18, 2021	Previous check date:	January 18, 2021
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	6.5	Wind Direction on Data Logger:	W
		Wind Direction Pass/Fail?:	Pass
Comments			
No issues.			



Meteorological Sensor Audit/Calibration

Location Information

Company: PRAMP
Audit Location: 986C
Audit Date: July 16, 2020
Calibration Purpose: installation

Performed By: Chris Wesson
Reviewed By: Ferdinand Roy
Start/End Time (mst): 15:07 / 16:17
Weather Conditions: Mix of sun and clouds with rain showers

Wind Sensor Information

Sensor ID Data:		Sensor Outputs:	
Sensor Make:	RM Young	Velocity Voltage Output Range:	n/a
Sensor Model:	05305L	Velocity Unit Output Range:	0-180
Serial #:	174795	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	n/a	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# CA03309 expires November 20, 2020

Wind Speed Audit Data ****+/- 2% of the average correction factor is the limit****

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.3	18.3	1.007
2000	36.9	36.7	36.7	1.004
3000	55.3	55.1	55.1	1.003
4000	73.7	73.6	73.6	1.002
5000	92.2	92.0	92.0	1.002
6000	110.6	110.5	110.5	1.001
7000	129.0	128.9	128.9	1.001
8000	147.4	147.3	147.3	1.001
9000	165.9	165.8	165.8	1.000
10000	184.3	184.2	184.2	1.001
The audit meets AMD requirements.			Average Correction Factor=	1.002

Wind Direction Audit Data ****+/- 3° of the absolute average degrees difference for all points is the limit****

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	0	354	0.0	1.0	0.5
30	330	30	330	0.0	0.0	0.0
60	300	59	299	1.0	1.0	1.0
90	270	90	270	0.0	0.0	0.0
120	240	119	240	1.0	0.0	0.5
150	210	150	210	0.0	0.0	0.0
180	180	181	180	-1.0	0.0	0.5
210	150	211	150	-1.0	0.0	0.5
240	120	241	120	-1.0	0.0	0.5
270	90	270	89	0.0	1.0	0.5
300	60	300	59	0.0	1.0	0.5
330	30	330	30	0.0	0.0	0.0
355	0	354	0	1.0	0.0	0.5
The audit meets AMD requirements.			Average Absolute Degrees Difference=			0.4

Comments:

Magnetic declination = 15Deg(E)



Peace River Area Monitoring Program

FEBRUARY 2021

Ambient Air Monitoring Calibration Report

- RENO STATION-

CAL-PRAMP-202102-01563

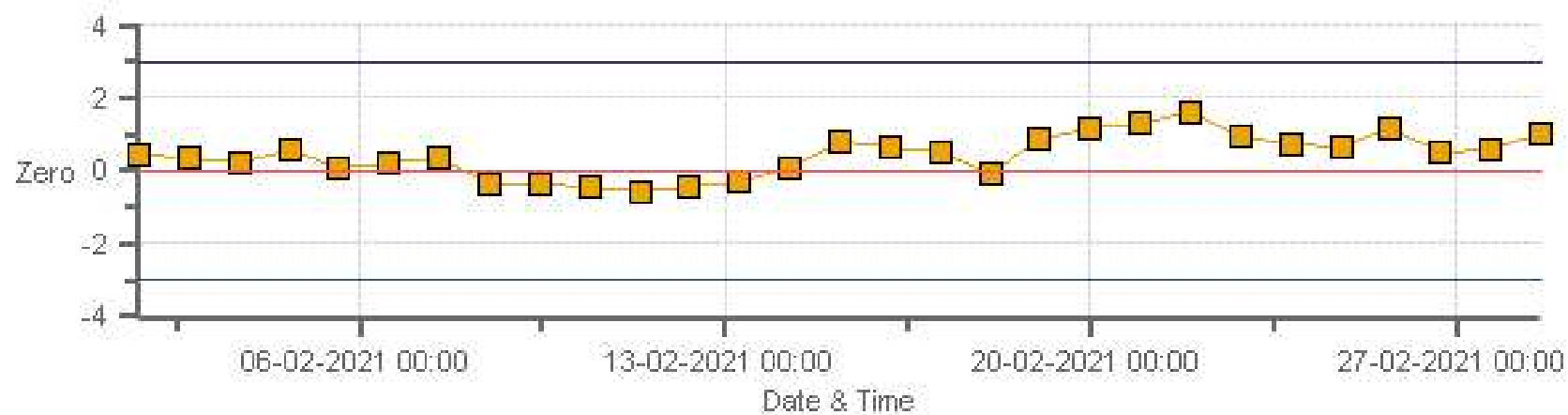
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

March 18, 2021

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP RENO Monthly: 02-2021 Type: SpanAndZero - Zero



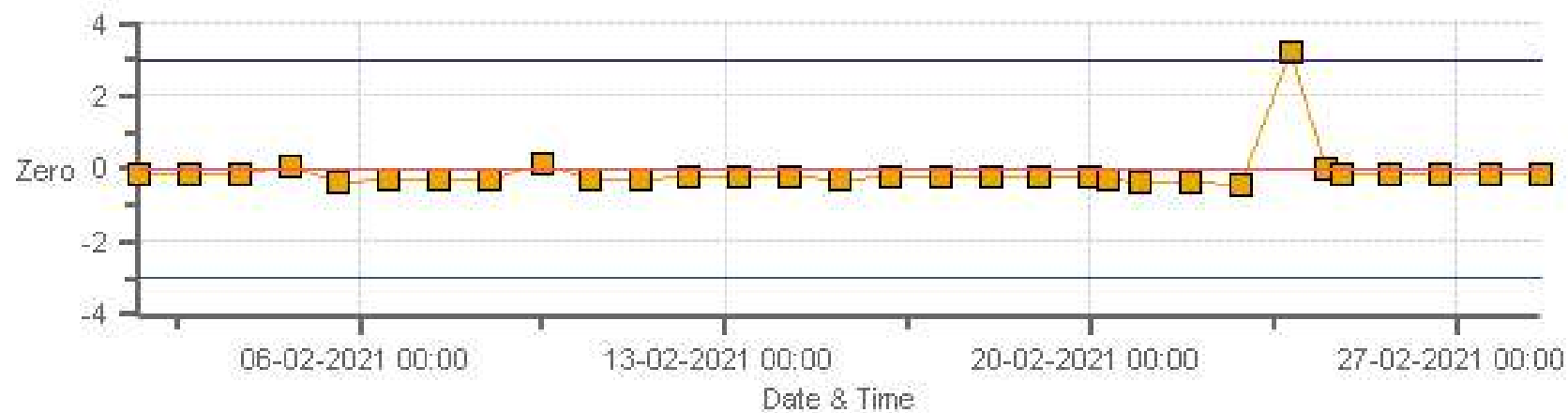
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: PRAMP RENO Monthly: 02-2021 Type: SpanAndZero - Span



Span SpanRef Span Low Span High

TRS[ppb] Calibration: PRAMP RENO Monthly: 02-2021 Type: SpanAndZero - Zero



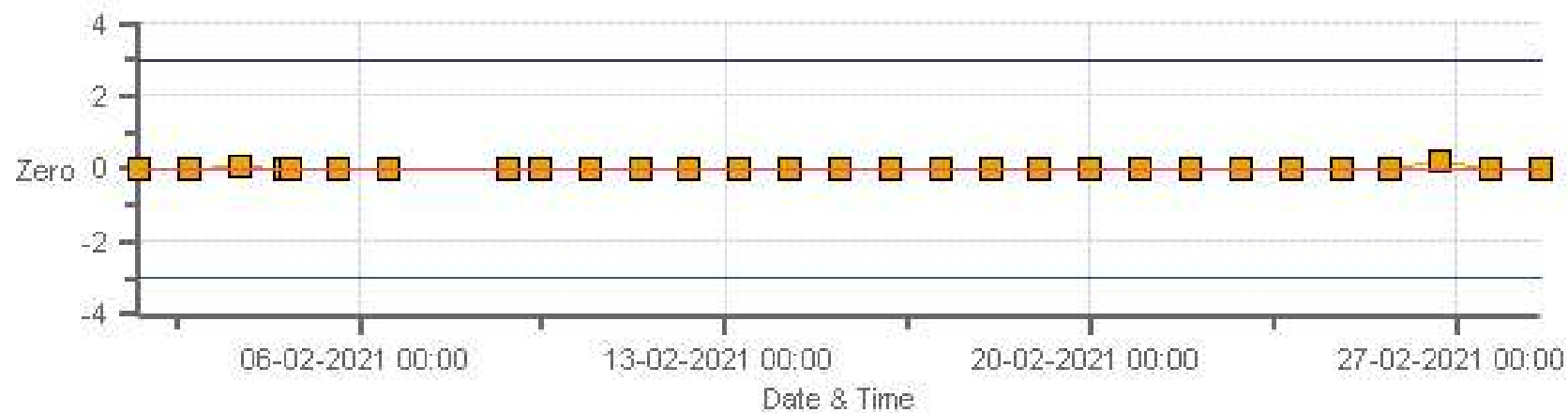
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: PRAMP RENO Monthly: 02-2021 Type: SpanAndZero - Span



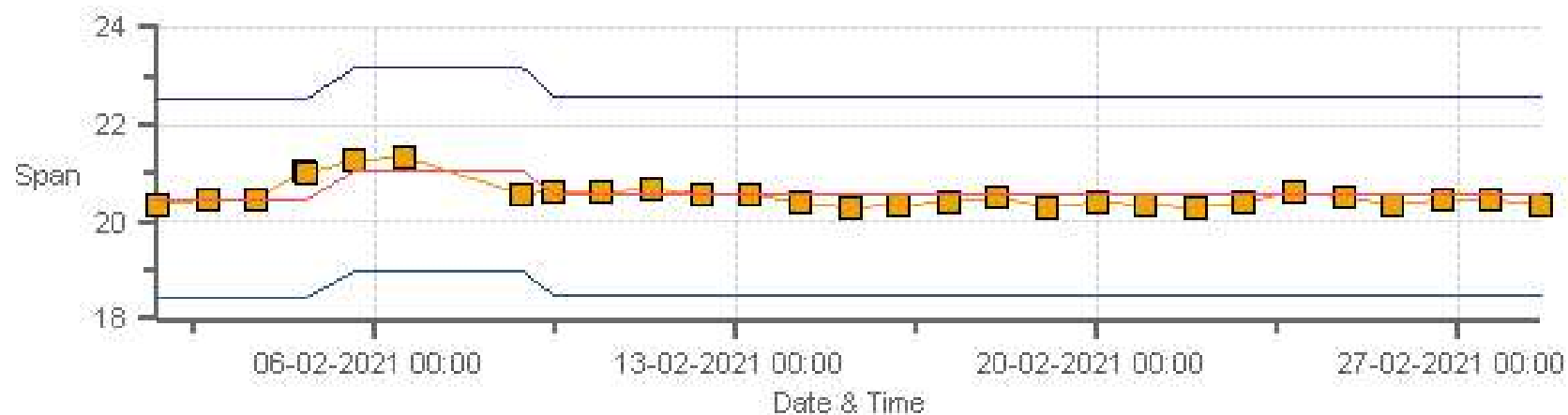
Span SpanRef Span Low Span High

THC55[ppm] Calibration: PRAMP RENO Monthly: 02-2021 Type: SpanAndZero - Zero



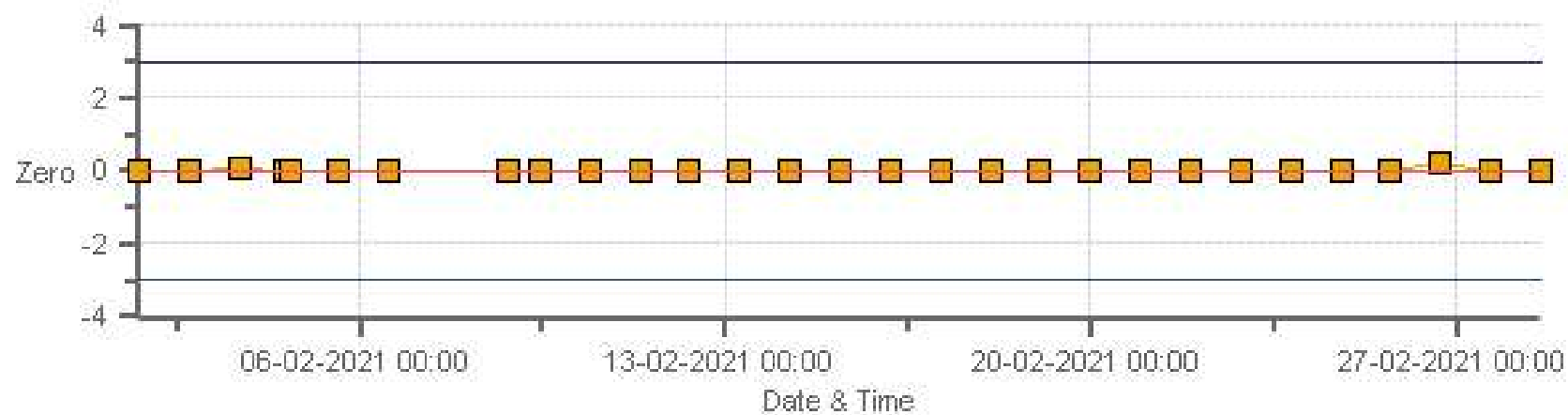
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: PRAMP RENO Monthly: 02-2021 Type: SpanAndZero - Span



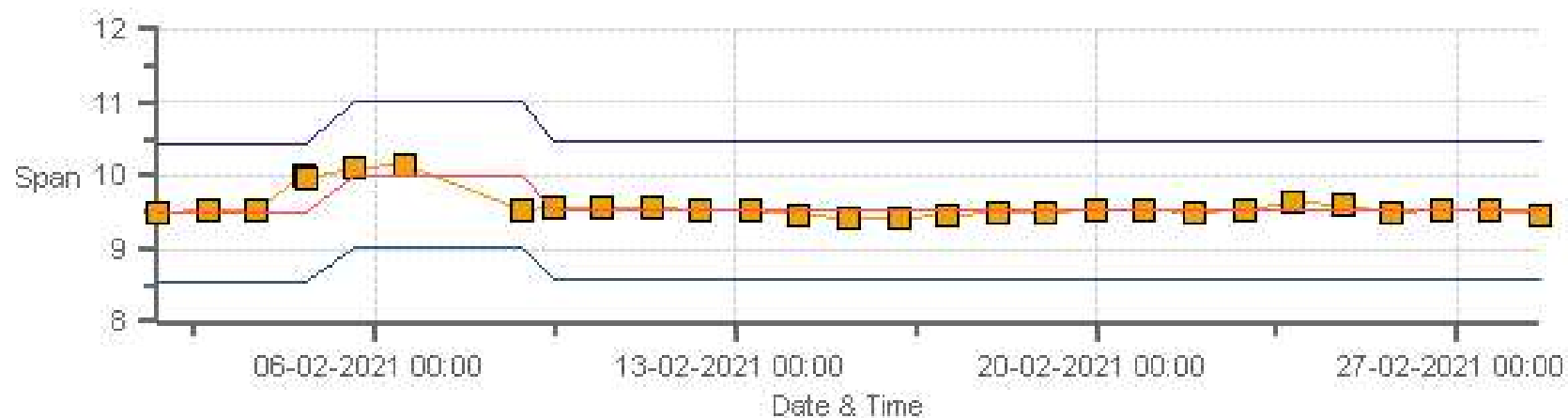
Span Span Ref Span Low Span High

CH4[ppm] Calibration: PRAMP RENO Monthly: 02-2021 Type: SpanAndZero - Zero



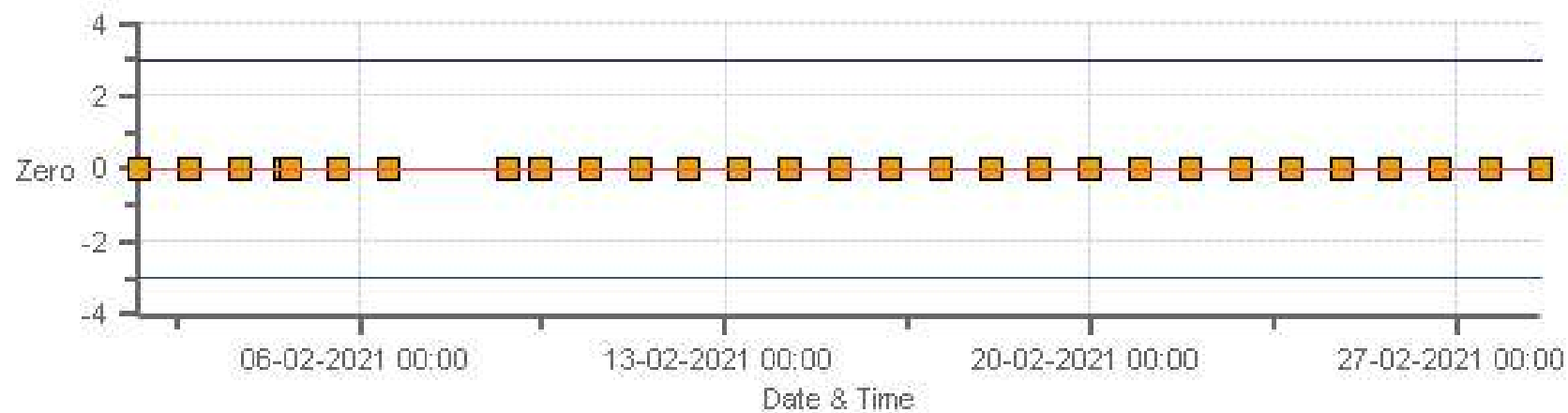
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: PRAMP RENO Monthly: 02-2021 Type: SpanAndZero - Span



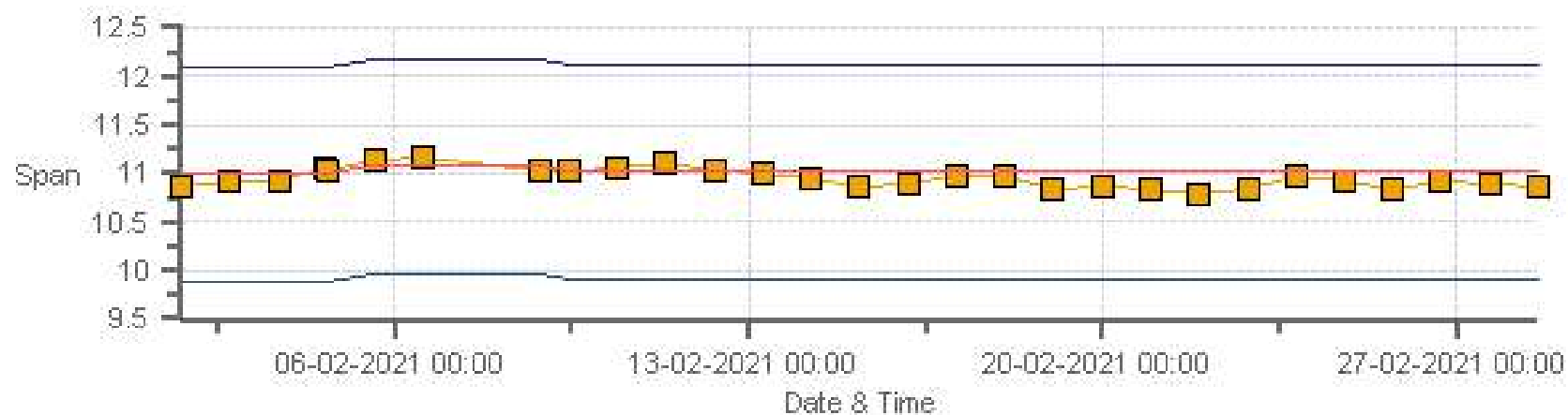
Span SpanRef Span Low Span High

NMHC[ppm] Calibration: PRAMP RENO Monthly: 02-2021 Type: SpanAndZero - Zero



Zero Zero Ref Zero Low Zero High

NMHC[ppm] Calibration: PRAMP RENO Monthly: 02-2021 Type: SpanAndZero - Span



Span Span Ref Span Low Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	04-Feb-2021	PREVIOUS CALIBRATION DATE:	07-Jan-2021
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	Reno	BAROMETRIC (mBar):	940
PURPOSE:	Routine	START TIME (MST):	09:58
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	16:39

ANALYZER:

MAKE/MODEL	API 100A	RANGE	500 ppb
SERIAL #	1502	FLOW (mL/min)	662
INITIAL		FINAL	
BKG/OFFSET	79.9	BKG/OFFSET	79.5
COEF/SLOPE	1.04	COEF/SLOPE	1.055
Expected (reference) Value	228.8	Expected (reference) Value	231.2

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	5004
MFC CALIBRATION DATE:	25-Jan-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002357	HIGH ID	n/a
CONC (ppm):	24.90	EXPIRY DATE	n/a
CYLINDER (psi):	1900	LOW ID	n/a
EXPIRY DATE	13-Nov-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	390	190	95
RANGE	300 - 400	150 - 200	50 - 100

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

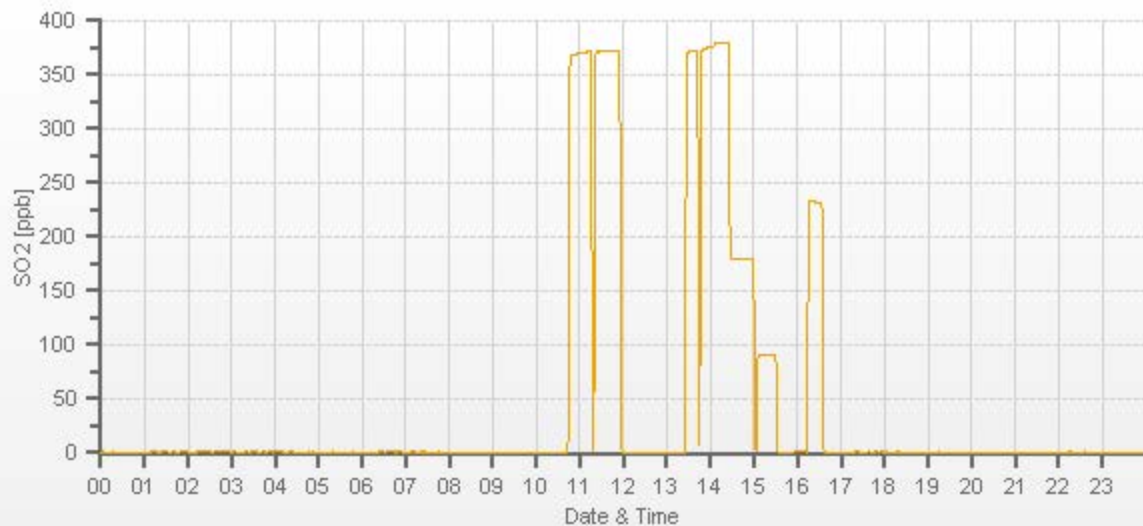
FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001	61.10	4001	0.00	-0.3	0	1.018	1.001
3941	61.10	4002	380.16	373.1	379.9	1.018	1.001
3974	28.90	4003	179.77	n/a	180	n/a	0.999
3987	14.50	4001	90.24	n/a	90.9	n/a	0.993

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.1%

COMMENTS:

As found high repeated at 11:19 due to slow TRS analyzer response (SO2 running in parallel with TRS). Sample filter changed. High point adjust stopped at 13:42 due to slow TRS response. Restarted high point adjust at 13:45. Low point interrupted by daily span at 15:00. Aborted daily span at 15:02.



TRS Analyzer Calibration by Dilution



DATE:	04-Feb-2021	PREVIOUS CALIBRATION DATE:	07-Jan-2021
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	Reno	BAROMETRIC (mBar):	940
PURPOSE:	Routine	START TIME (MST):	09:58
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	16:39

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100 ppb
SERIAL #	1162460022	FLOW (mL/min)	421
INITIAL		FINAL	
BKG/OFFSET	3.18	BKG/OFFSET	3.63
COEF/SLOPE	1.253	COEF/SLOPE	1.38
Expected (reference) Value	40.96	Expected (reference) Value	38.29

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	5004
MFC CALIBRATION DATE:	25-Jan-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0000644	HIGH ID	n/a
CONC (ppm):	10.00	EXPIRY DATE	n/a
CYLINDER (psi):	1100	LOW ID	n/a
EXPIRY DATE	16-Jul-2022	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001	31.20	4001	0.00	-0.01	0	1.095	1.000
3971	31.20	4002	77.96	71.19	78	1.095	1.000
3988	15.20	4003	37.97	n/a	38.02	n/a	0.999
3993	7.60	4001	19.00	n/a	18.81	n/a	1.010

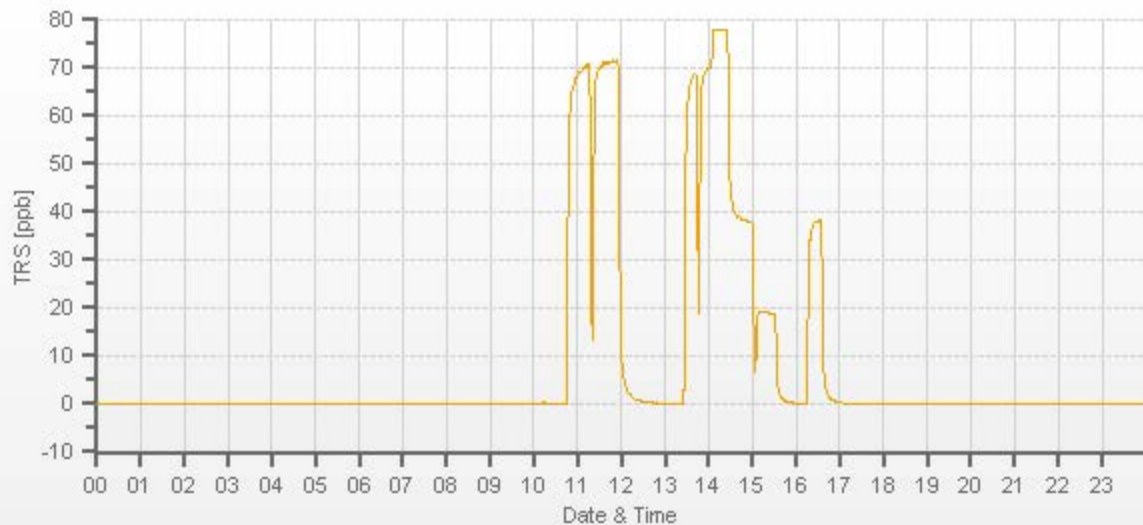
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Flush regulator at 11:19 and restart AF high due to slow response.
 Reflush regulator during adj high due to low response.
 Daily zero/span at 15:00. Restart low point.

TRS[ppb] Station: PRAMP RENO Daily: 04-02-2021 Type: AVG 1 Min. [1 Min.]



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TRS Analyzer Calibration by Dilution



DATE:	09-Feb-2021	PREVIOUS CALIBRATION DATE:	04-Feb-2021
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	20.3
LOCATION:	Reno	BAROMETRIC (mBar):	955
PURPOSE:	As-Found	START TIME (MST):	09:25
PERFORMED BY:	Limin Li	END TIME (MST):	10:49

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100 ppb
SERIAL #	1162460022	FLOW (mL/min)	421
INITIAL		FINAL	
BKG/OFFSET	3.63	BKG/OFFSET	3.63
COEF/SLOPE	1.38	COEF/SLOPE	1.38
Expected (reference) Value	38.29	Expected (reference) Value	38.29

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	Teledyne
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	28-Sep-2020	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0001074	HIGH ID	n/a
CONC (ppm):	10.00	EXPIRY DATE	n/a
CYLINDER (psi):	1600	LOW ID	n/a
EXPIRY DATE	16-Jul-2022	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

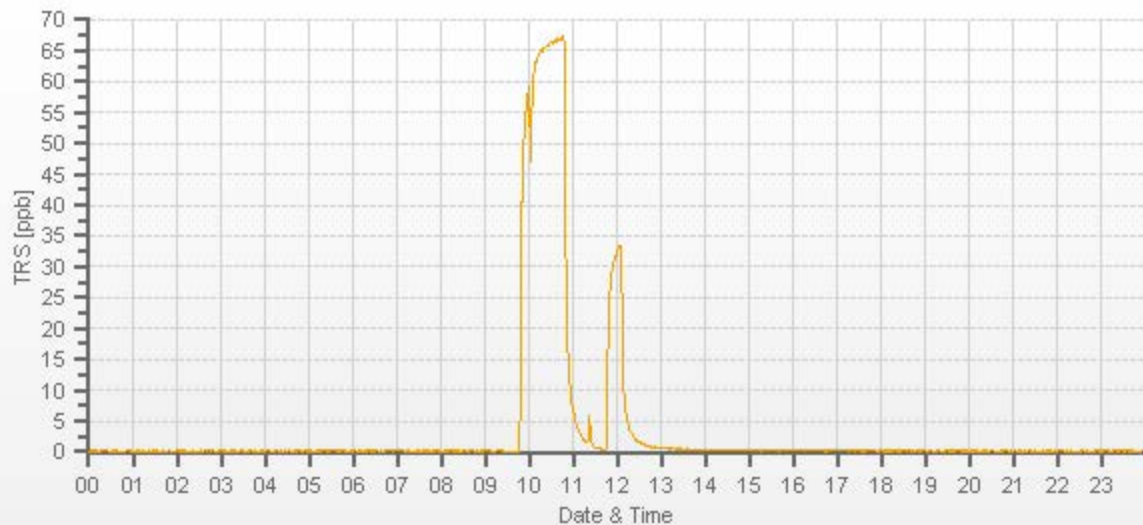
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED		Initial	Final
				Initial	Final		
7500	58.50	7500	0.00	-0.27	n/a	1.166	n/a
7442	58.50	7500	78.00	66.6	n/a	1.166	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	n/a	n/a	n/a

COMMENTS:

As-found fails. Probable cause = low ambient temperatures.



TRS Analyzer Calibration by Dilution



DATE:	23-Feb-2021	PREVIOUS CALIBRATION DATE:	04-Feb-2021
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	24.6
LOCATION:	Reno	BAROMETRIC (mBar):	935
PURPOSE:	Removal/Shut-down	START TIME (MST):	13:49
PERFORMED BY:	Limin Li	END TIME (MST):	16:26

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100 ppb
SERIAL #	1162460022	FLOW (mL/min)	417
INITIAL		FINAL	
BKG/OFFSET	3.65	BKG/OFFSET	n/a
COEF/SLOPE	1.38	COEF/SLOPE	n/a
Expected (reference) Value	38.29	Expected (reference) Value	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	Teledyne
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	28-Sep-2020	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0001074	HIGH ID	n/a
CONC (ppm):	10.00	EXPIRY DATE	n/a
CYLINDER (psi):	1600	LOW ID	n/a
EXPIRY DATE	16-Jul-2022	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	14:08	SO2 Conc (ppb)	380
END TIME:	14:28	Analyzer Response (ppb)	0.0

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500	7500	7500	0.00	-0.3	n/a	0.910	n/a
7442	58.50	7500	78.00	85.4	n/a	0.910	n/a
7472	28.50	7500	38.00	40.3	n/a	0.936	n/a
7486	14.25	7500	19.00	20	n/a	0.936	n/a

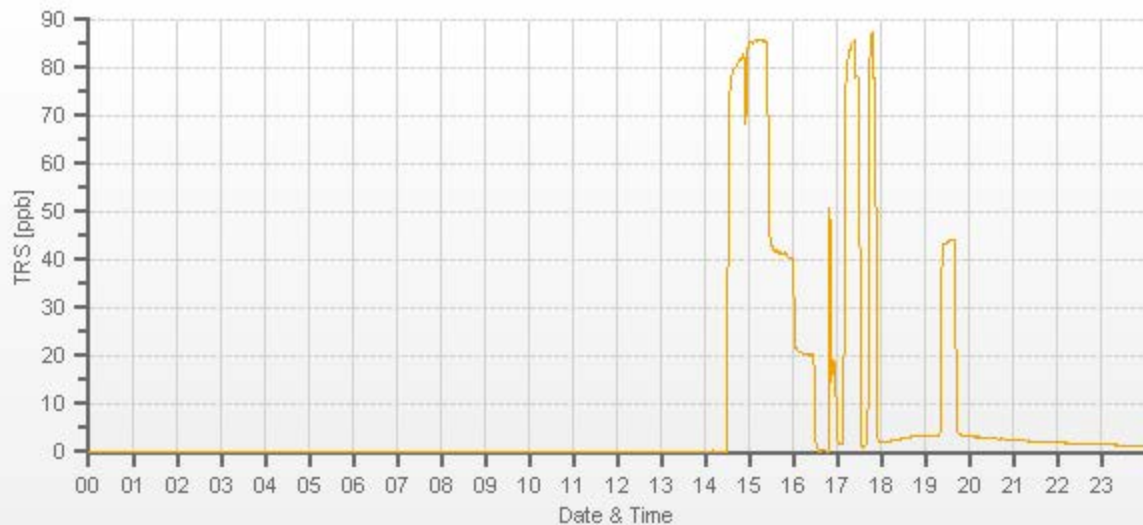
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.100	-0.8%

COMMENTS:

Shut-down due to span drift. Repurge regulator @ 14:53pm.
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TRS[ppb] Station: PRAMP RENO Daily: 23-02-2021 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202102-01563

TRS Analyzer Calibration by Dilution



DATE:	24-Feb-2021	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	22.4
LOCATION:	Reno	BAROMETRIC (mBar):	941
PURPOSE:	Install/Post-Repair	START TIME (MST):	09:00
PERFORMED BY:	Limin Li	END TIME (MST):	12:14

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100 ppb
SERIAL #	1162460022	FLOW (mL/min)	412
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	3.2
COEF/SLOPE	n/a	COEF/SLOPE	1.018
Expected (reference) Value	n/a	Expected (reference) Value	42.38

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	EnviroNics	MAKE:	Teledyne
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	28-Sep-2020	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0001074	HIGH ID	n/a
CONC (ppm):	10.00	EXPIRY DATE	n/a
CYLINDER (psi):	1600	LOW ID	n/a
EXPIRY DATE	16-Jul-2022	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	09:26	SO2 Conc (ppb)	380
END TIME:	09:46	Analyzer Response (ppb)	0.2

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500	58.50	7500	0.00	n/a	0	n/a	1.000
7442	58.50	7500	78.00	n/a	78	n/a	1.000
7472	28.50	7500	38.00	n/a	38	n/a	1.000
7486	14.25	7500	19.00	n/a	18.9	n/a	1.005

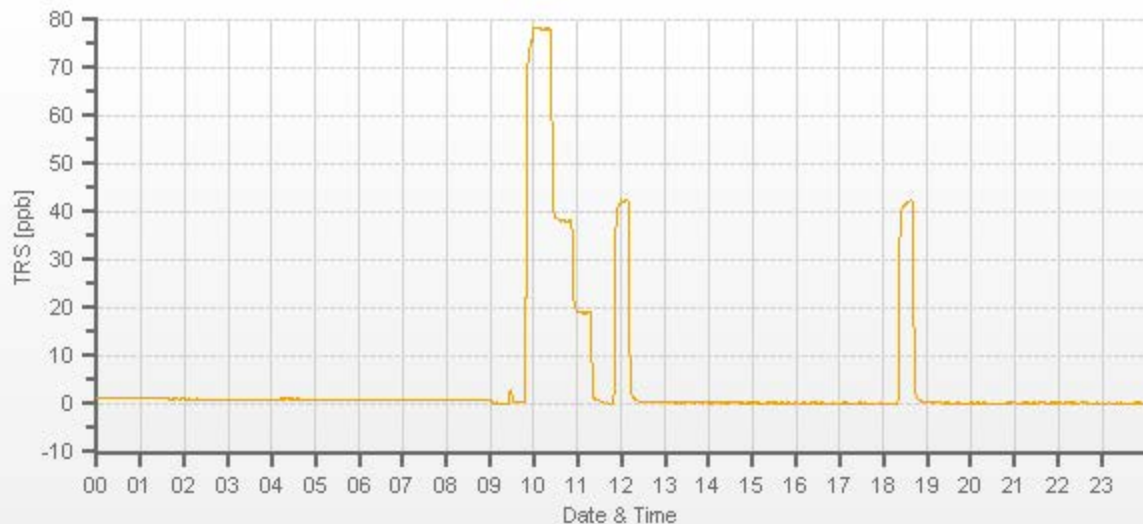
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Post-repair following maintenance to converter and SO2 scrubber

TRS[ppb] Station: PRAMP RENO Daily: 24-02-2021 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202102-01563

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	04-Feb-2021	PREVIOUS CALIBRATION DATE:	07-Jan-2021	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9		Thermo 55i	1505664392	1095.9
LOCATION:	Reno	BAROMETRIC (mBar):	940	PARAMETER:	CH4	NMHC	THC
PURPOSE:	Routine	START TIME (MST):	09:59	RANGE (ppm):	20	20	40
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:21	PREVIOUS CF:	0.999	0.998	0.998

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL84567	HIGH ID:	148944
MODEL:	2010	MODEL:	M701	CH ₄ /C ₃ H ₈ (ppm):	591.0 200.0	HIGH EXPIRY:	16-Nov-2021
ID:	17100415	ID:	5004	CYLINDER (psi):	1180	LOW ID:	152019
MFC CALIBRATION DATE:	n/a	OXIDIZER ID:	Internal	EXPIRY DATE	17-Jul-2027	LOW EXPIRY:	16-Nov-2021

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	550.0
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1141.0

EXPECTED (REFERENCE) VALUE:

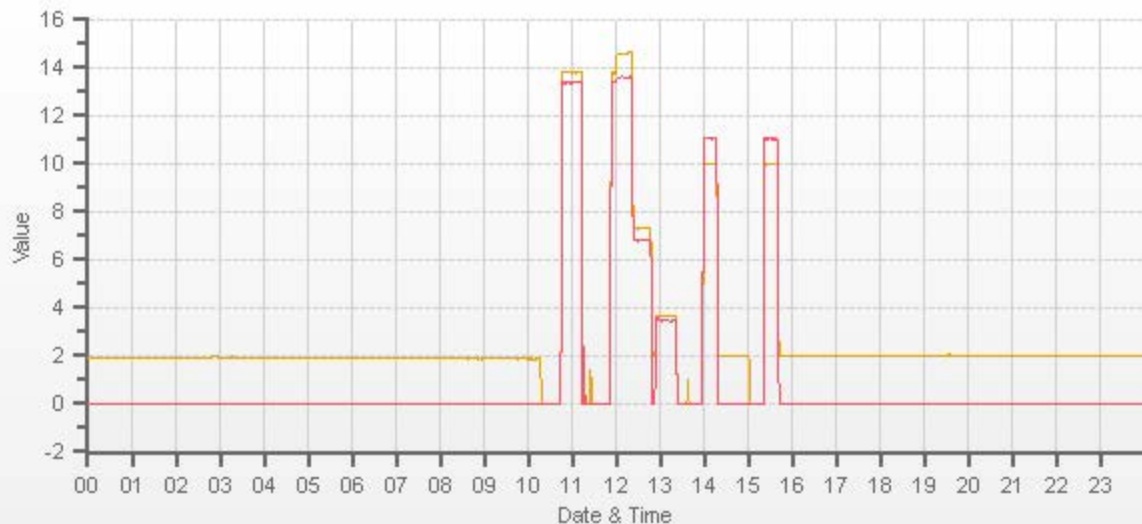
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	9.49	10.99	20.48		10.01	11.07	21.08

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3008	X	3008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
2916	73.98	2990	14.62	13.61	28.23	13.83	13.40	27.21	14.64	13.62	28.26	1.057	1.016	1.038	0.999	0.999	0.999
2956	36.91	2993	7.29	6.78	14.07	n/a	n/a	n/a	7.31	6.84	14.15	n/a	n/a	n/a	0.997	0.992	0.994
2970	18.44	2988	3.65	3.39	7.04	n/a	n/a	n/a	3.65	3.46	7.11	n/a	n/a	n/a	0.999	0.981	0.990

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:			
CH ₄	1.000	1.001	0.0%	Sample filter changed. Monthly calibration - no issues.			
NMHC	1.000	1.000	0.2%				
THC	1.000	1.000	0.1%				
				Use Zero Chrom?		No	



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CH₄ [ppm] NMHC [ppm]

Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	08-Feb-2021	PREVIOUS CALIBRATION DATE:	04-Feb-2021	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	22.6		Thermo 55i	1505664392	n/a
LOCATION:	Reno	BAROMETRIC (mBar):	956	PARAMETER:	CH4	NMHC	THC
PURPOSE	Install/Post-Repair	START TIME (MST):	18:13	RANGE (ppm):	20	20	40
PERFORMED BY:	Limin Li	END TIME (MST):	20:35	PREVIOUS CF:	0.999	0.999	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	EnviroNics	MAKE:	Teledyne	CYLINDER ID:	LL70331	HIGH ID:	n/a
MODEL:	6100	MODEL:	701	CH ₄ /C ₃ H ₈ (ppm):	909.0 308.0	HIGH EXPIRY:	n/a
ID:	5212	ID:	1105	CYLINDER (psi):	1700	LOW ID:	n/a
MFC CALIBRATION DATE:	28-Sep-2020	OXIDIZER ID:	111	EXPIRY DATE	21-Jan-2028	LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	847.0
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1756.0

EXPECTED (REFERENCE) VALUE:

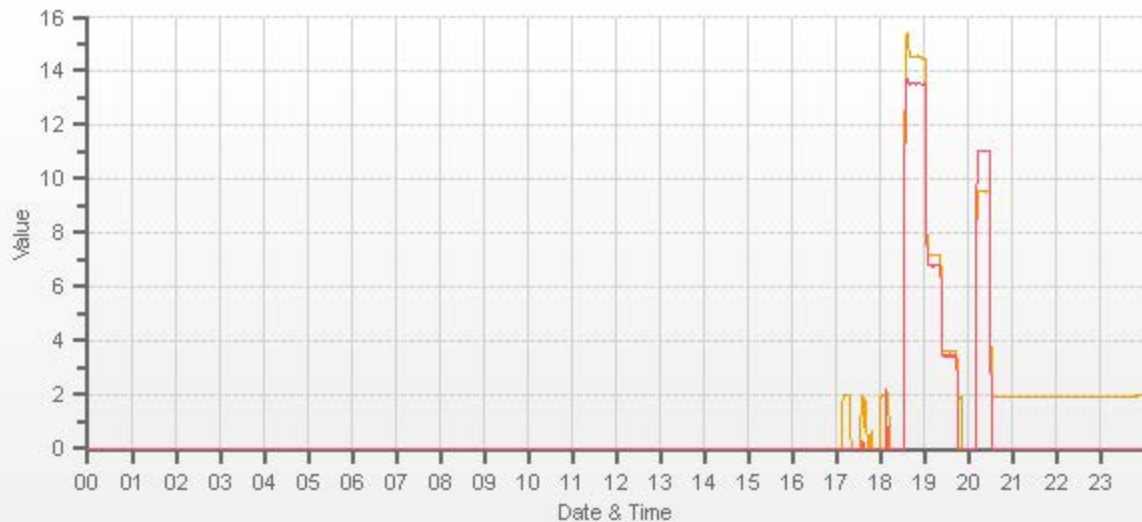
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	10.01	11.07	21.08		9.52	11.02	20.55

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3500	55.80	3500	0.00	0.00	0.00	n/a	n/a	n/a	0.00	0.00	0.00	n/a	n/a	n/a	n/a	n/a	n/a
3444	55.80	3500	14.49	13.50	28.00	n/a	n/a	n/a	14.48	13.49	27.97	n/a	n/a	n/a	1.001	1.001	1.001
3472	27.90	3500	7.25	6.75	14.00	n/a	n/a	n/a	7.20	6.81	14.01	n/a	n/a	n/a	1.006	0.991	0.999
3486	13.95	3500	3.62	3.38	7.00	n/a	n/a	n/a	3.60	3.45	7.05	n/a	n/a	n/a	1.006	0.979	0.993

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:			
CH ₄	1.000	0.999	-0.1%	n/a			
NMHC	1.000	0.998	0.2%				
THC	1.000	0.998	0.1%				
				Use Zero Chrom?		No	



CAL-PRAMP-202102-01563

Meteorological System Checklist



Date:	February 4, 2021		
Technician:	Ferdinand Roy		
Station:	PRAMP Reno		
Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	5202	TB 15877
Temperature Sensor:	RM Young	43172VC	60837897
Barometric Pressure Sensor:	MetOne	92	R12877
Relative Humidity Sensor:	RM Young	43172VC	60837897
Anemometer:	RM Young	05305VK	149769
PRECIPITATION SENSOR CHECK			
Checklist:	Reply:	Comments:	
Is the heater operating properly?	yes		
Are the bucket drain holes clean?	yes		
Is the housing clean?	yes		
Is the area around the housing clean and free from obstacles?	yes		
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	January 7, 2021		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	FS 160348895 expires Sep 4, 2022		
Reference Temperature (°C):	-20.1		
Station - Ambient Temperature (°C):	-21.9		
Temperature Difference (°C):	1.8		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	January 7, 2021		
Reference Barometer ID:	F.S. 10528 expires Feb26, 2021		
Reference Pressure - Units/Reading:	millibar	942	
Station Pressure - Units/Reading:	millibar	942.9	
Pressure Tolerance +/- 15% of error:	801 - 1083	-0.10%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	January 7, 2021		
Reference Hygrometer ID:	FS 160348895 expires Sep 4, 2022		
Reference Hygrometer % RH- Reading:	66.50		
Station Hygrometer % RH- Reading:	58.30		
RH Tolerance +/- 15% of difference:	56.53 - 76.48	12.3%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	January 7, 2021	Previous check date:	January 7, 2021
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	N
Wind speed on Data Logger (kph):	11.2	Wind Direction on Data Logger:	N
		Wind Direction Pass/Fail?:	Pass
Comments			
Tested from 12:01-08pm. Ok.			



Meteorological Sensor Audit/Calibration

Location Information

Company: PRAMP
Audit Location: Reno
Audit Date: June 17, 2020
Calibration Purpose: routine annual

Performed By: Chris Wesson
Reviewed By: Ferdinand Roy
Start/End Time (mst): 16:12 / 17:13
Weather Conditions: Light rain/scattered showers

Wind Sensor Information

Sensor ID Data:		Sensor Outputs:	
Sensor Make:	RM Young	Velocity Voltage Output Range:	0-1
Sensor Model:	05305VK	Velocity Unit Output Range:	0-200
Serial #:	149769	Direction Voltage Output Range:	0-1
Previous Cal/Audit Date:	April 24, 2019	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# CA03309 expires November 20, 2020

Wind Speed Audit Data ****+/- 2% of the average correction factor is the limit****

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.4	18.4	1.002
2000	36.9	36.8	36.8	1.002
3000	55.3	55.2	55.2	1.002
4000	73.7	73.6	73.6	1.002
5000	92.2	92.2	92.2	0.999
6000	110.6	110.6	110.6	1.000
7000	129.0	129.2	129.2	0.999
8000	147.4	147.8	147.8	0.998
9000	165.9	166.2	166.2	0.998
10000	184.3	184.8	185.0	0.997
The audit meets AMD requirements.			Average Correction Factor=	1.000

Wind Direction Audit Data ****+/- 3° of the absolute average degrees difference for all points is the limit****

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	0	354	0.0	1.0	0.5
30	330	31	328	-1.0	2.0	1.5
60	300	61	298	-1.0	2.0	1.5
90	270	91	269	-1.0	1.0	1.0
120	240	121	239	-1.0	1.0	1.0
150	210	151	209	-1.0	1.0	1.0
180	180	180	180	0.0	0.0	0.0
210	150	210	150	0.0	0.0	0.0
240	120	240	121	0.0	-1.0	0.5
270	90	269	90	1.0	0.0	0.5
300	60	299	61	1.0	-1.0	1.0
330	30	328	30	2.0	0.0	1.0
355	0	354	0	1.0	0.0	0.5
The audit meets AMD requirements.				Average Absolute Degrees Difference=		0.8

Comments:

Bearings replaced. Declination = 15deg East



Peace River Area Monitoring Program

FEBRUARY 2021

Ambient Air Monitoring Calibration Report

- AQHI - CADOTTE LAKE STATION-

CAL-PRAMP-202102-01651

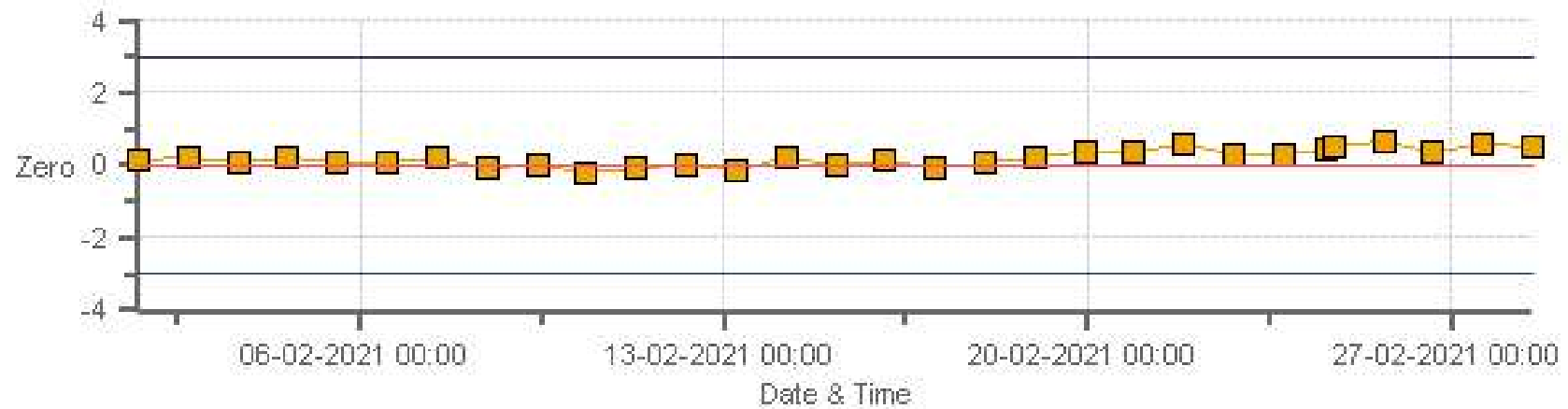
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

March 18, 2021

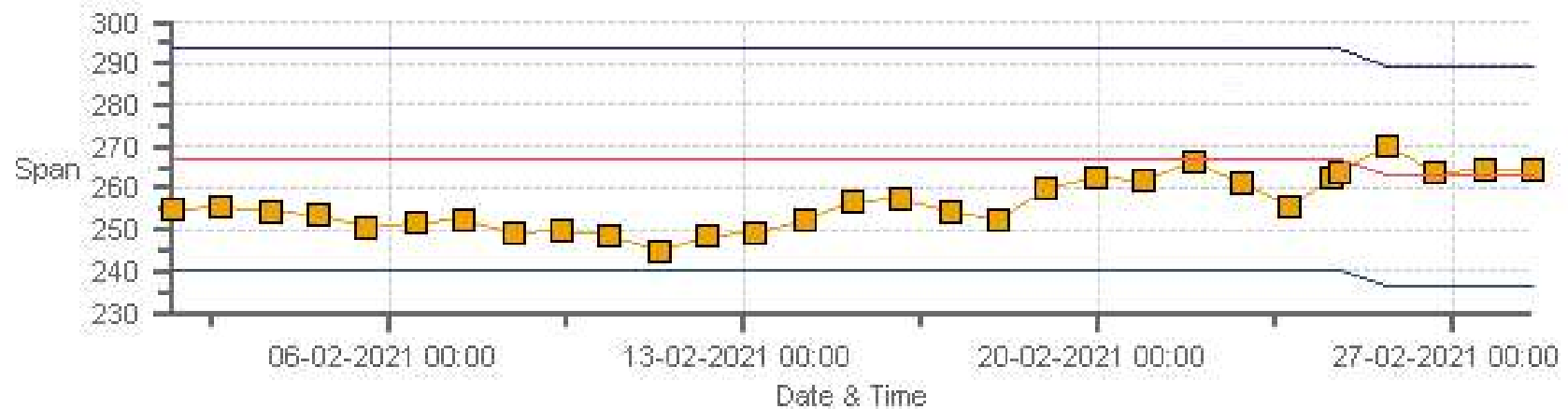
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Zero



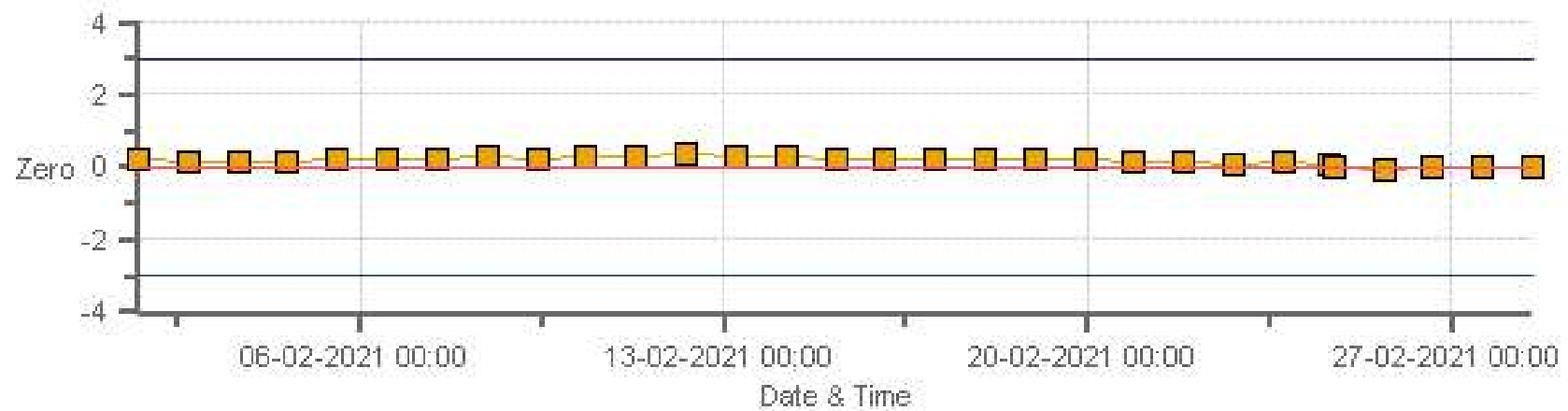
Zero Zero Ref Zero Low Zero High

SO2[ppb] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Span



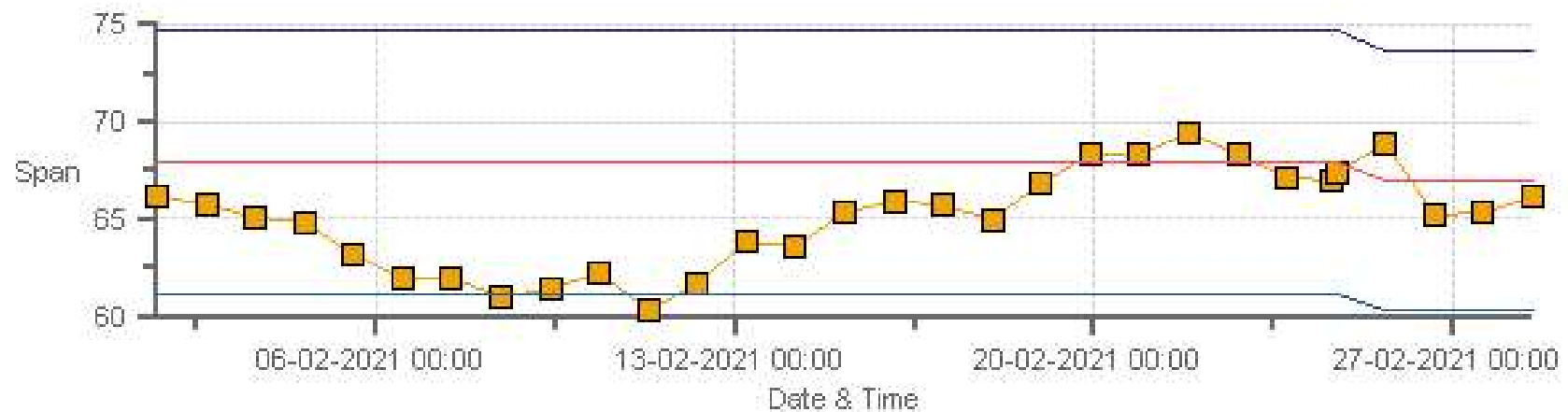
Span SpanRef Span Low Span High

TRS[ppb] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Zero



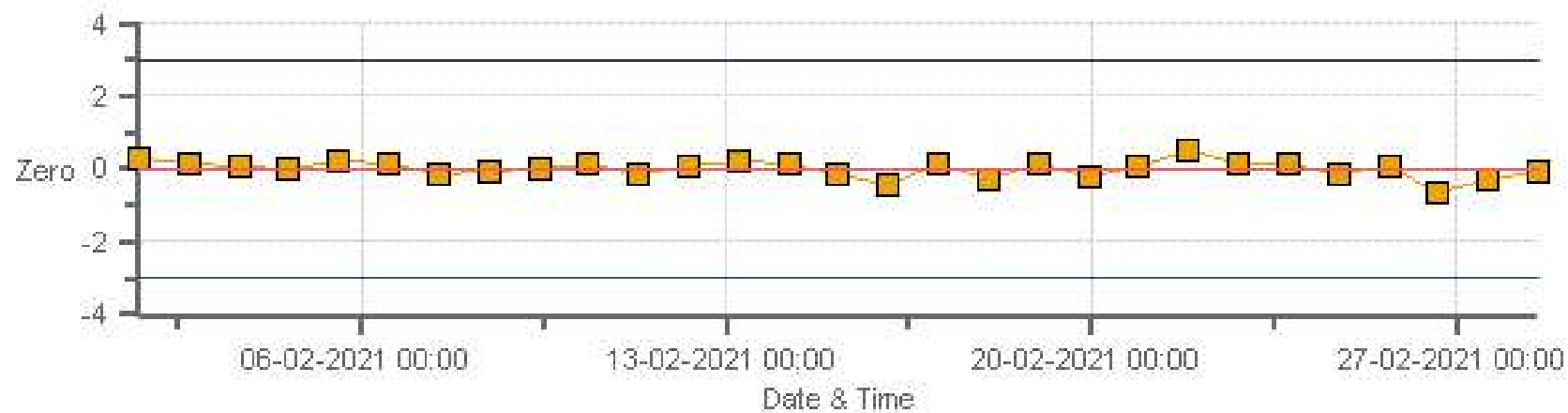
Zero Zero Ref Zero Low Zero High

TRS[ppb] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Span



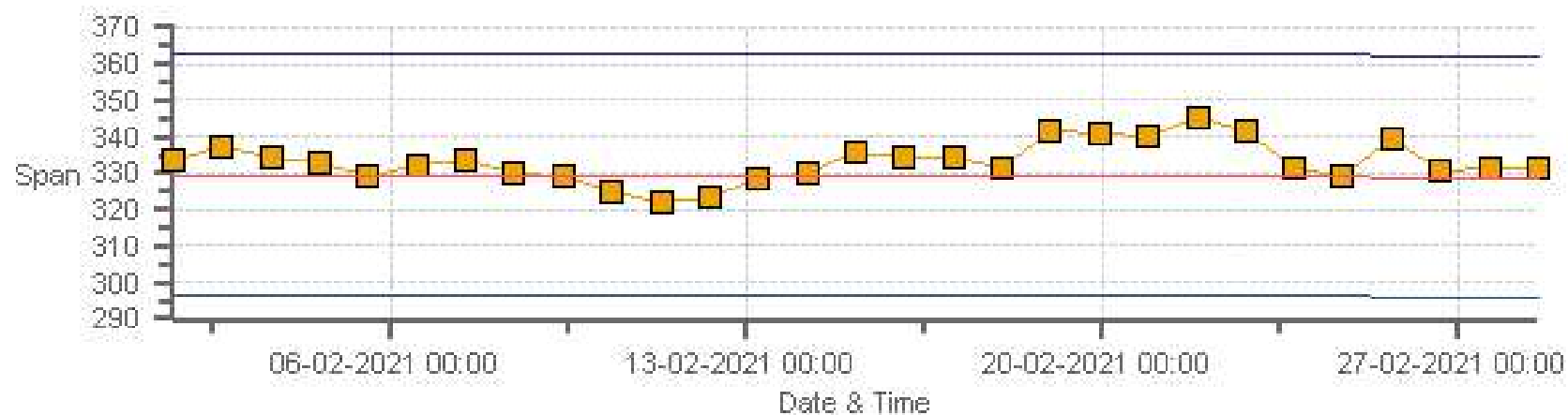
Span Span Ref Span Low Span High

NOX[ppb] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Zero



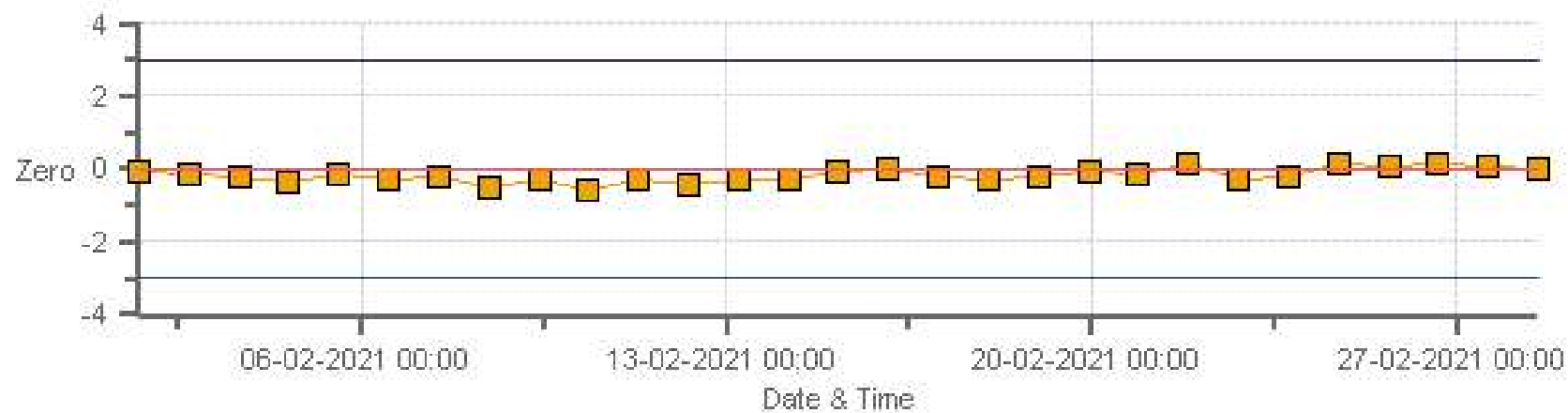
Zero Zero Ref Zero Low Zero High

NOX[ppb] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Span



Span SpanRef Span Low Span High

NO2[ppb] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Zero



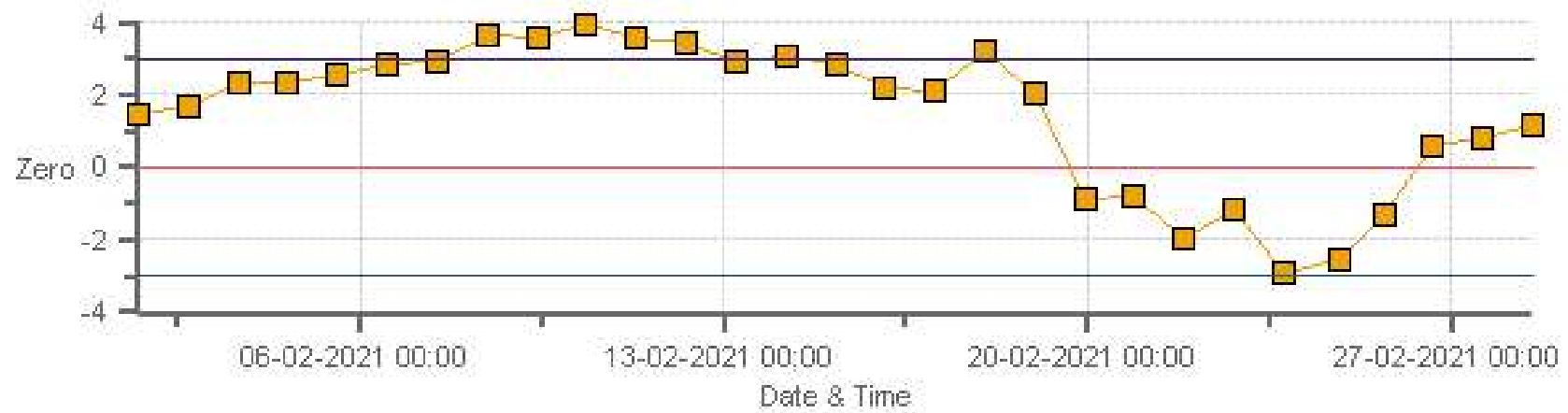
Zero Zero Ref Zero Low Zero High

NO2[ppb] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Span



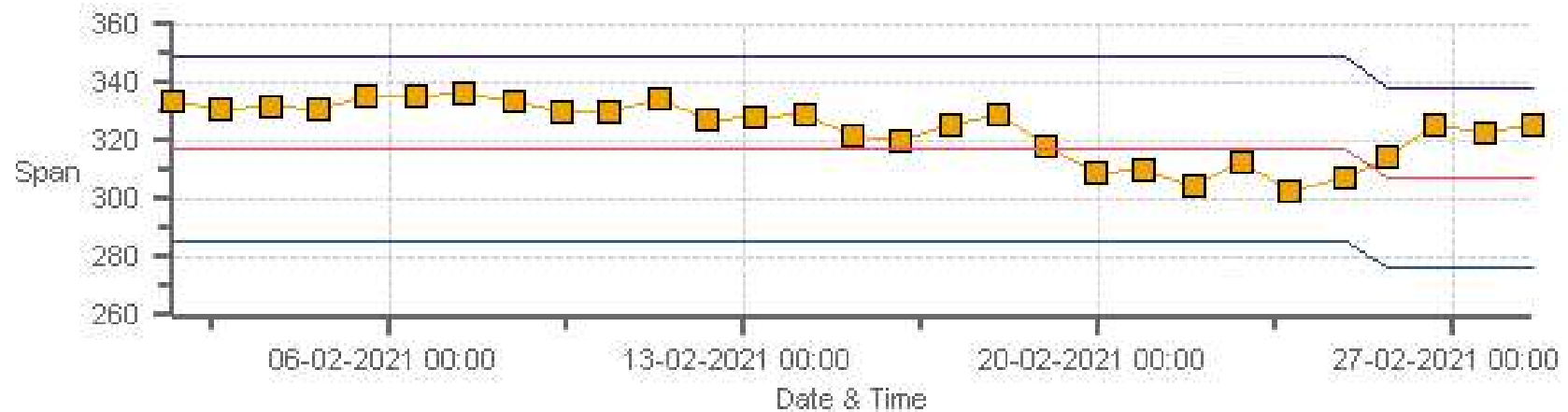
Span SpanRef Span Low Span High

03[ppb] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Zero



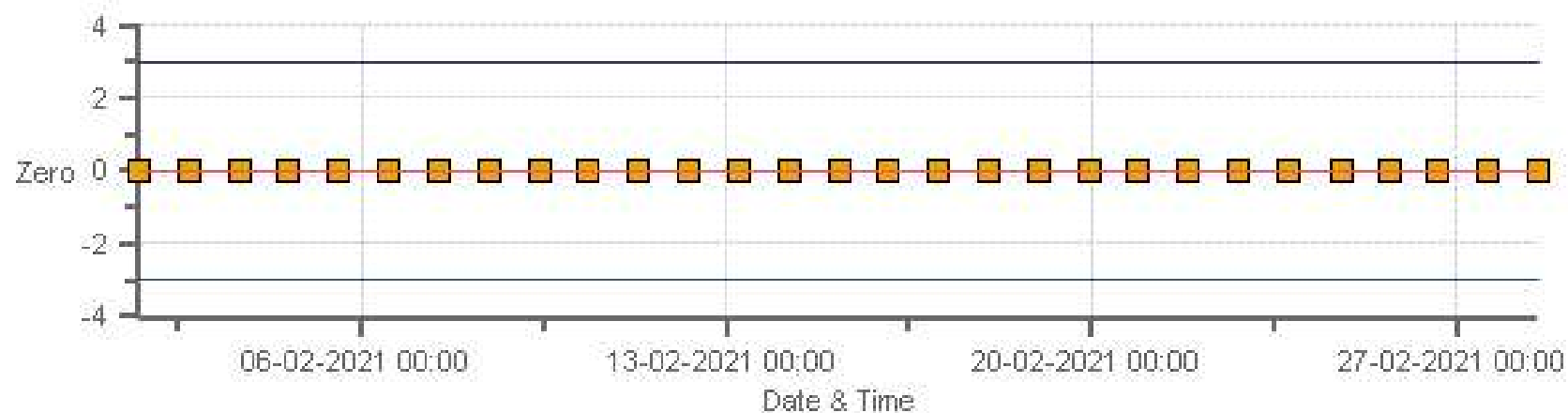
Zero Zero Ref Zero Low Zero High

03[ppb] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Span



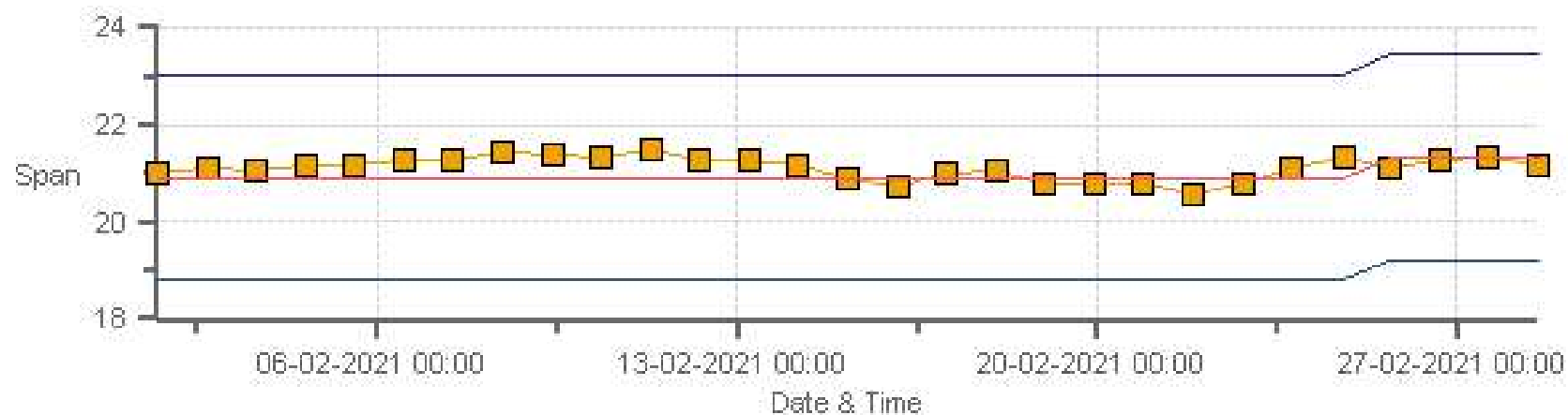
Span SpanRef Span Low Span High

THC55[ppm] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Zero



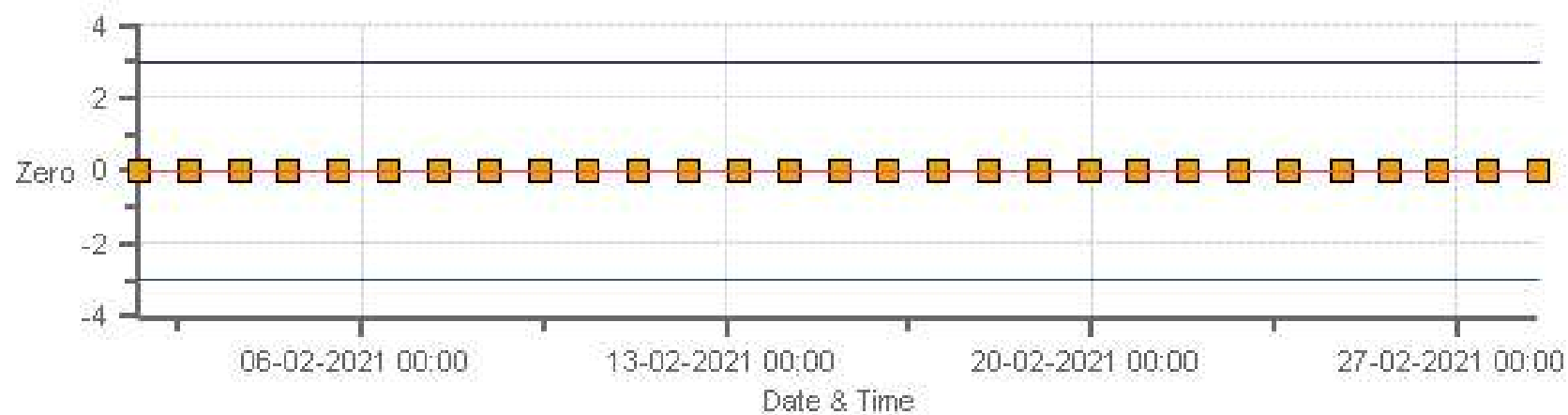
Zero Zero Ref Zero Low Zero High

THC55[ppm] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Span



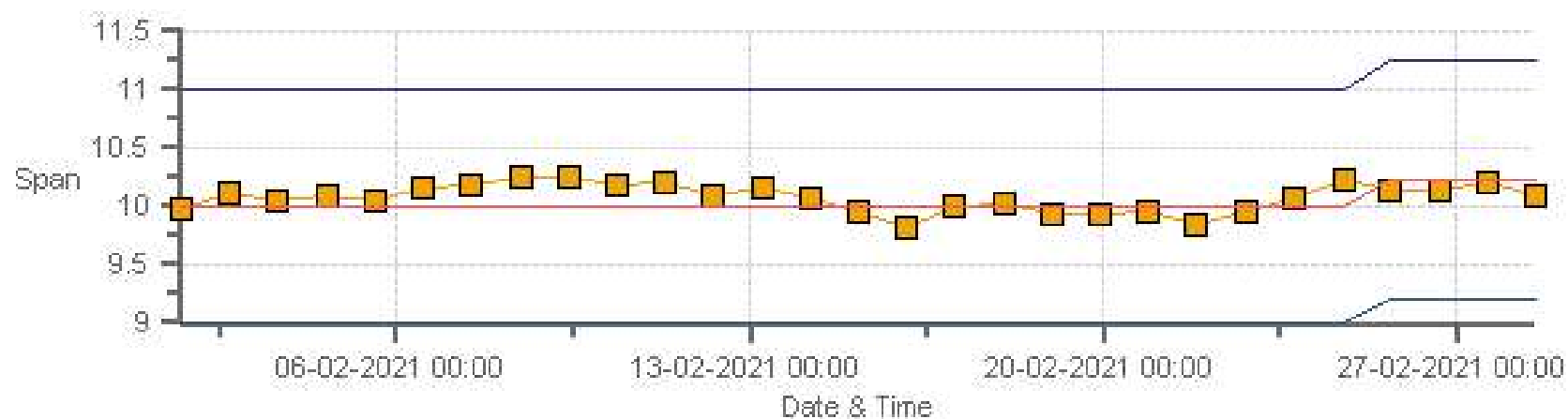
Span Span Ref Span Low Span High

CH4[ppm] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Zero



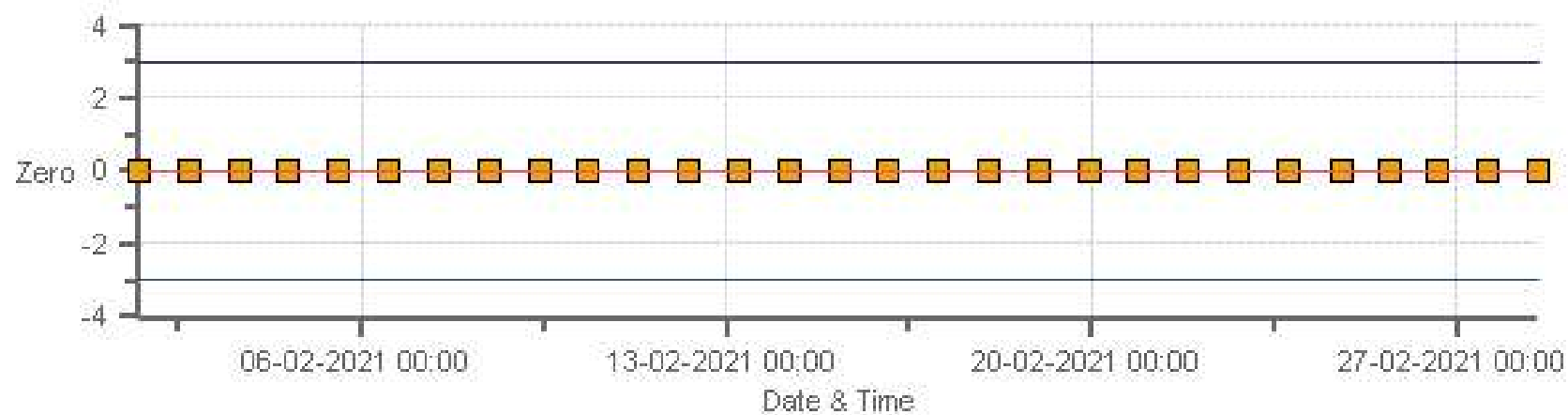
Zero Zero Ref Zero Low Zero High

CH4[ppm] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Span

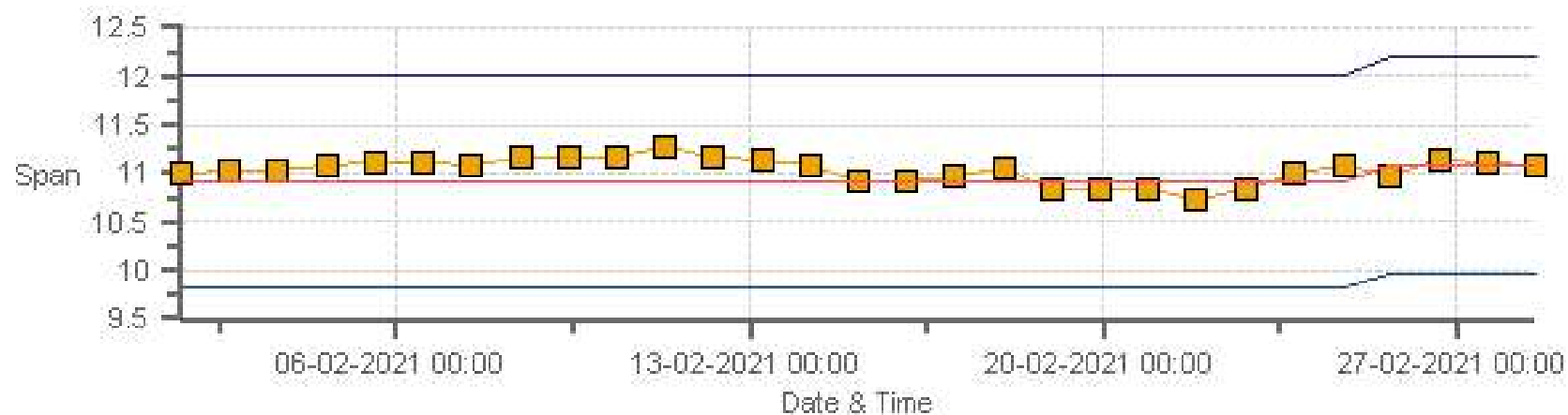


Span Span Ref Span Low Span High

NMHC[ppm] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: AQHI Cadotte Lake Monthly: 02-2021 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution



DATE:	24-Feb-2021	PREVIOUS CALIBRATION DATE:	19-Jan-2021
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	24.3
LOCATION:	Cadotte Lake	BAROMETRIC (mBar):	944
PURPOSE:	Routine	START TIME (MST):	09:59
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:44

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	532
INITIAL		FINAL	
BKG/OFFSET	19.2	BKG/OFFSET	18.7
COEF/SLOPE	0.905	COEF/SLOPE	0.928
Expected (reference) Value	267.1	Expected (reference) Value	262.8

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	5004
MFC CALIBRATION DATE:	25-Jan-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002493	HIGH ID	n/a
CONC (ppm):	49.40	EXPIRY DATE	n/a
CYLINDER (psi):	1600	LOW ID	n/a
EXPIRY DATE	13-Nov-2028	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	390	190	95
RANGE	300 - 400	150 - 200	50 - 100

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	n/a	SO2 Conc (ppb)	n/a
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
5002	38.80	5002	0.00	-0.1	0	1.029	1.000
4966	38.80	5005	382.96	372.1	382.9	1.029	1.000
4985	17.70	5003	174.77	n/a	175.6	n/a	0.995
4994	8.80	5003	86.89	n/a	88.2	n/a	0.985

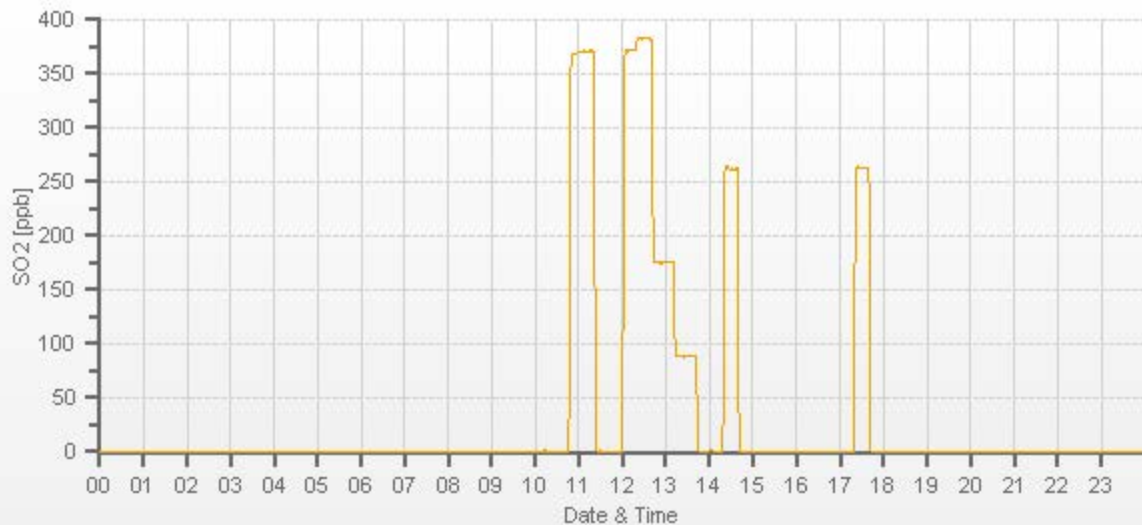
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

SO2[ppb] Station: AQHI Cadotte Lake Daily: 24-02-2021 Type: AVG 1 Min. [1 Min.]



CAL-PRAMP-202102-01651

TRS Analyzer Calibration by Dilution



DATE:	24-Feb-2021	PREVIOUS CALIBRATION DATE:	19-Jan-2021
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	24.3
LOCATION:	Cadotte Lake	BAROMETRIC (mBar):	944
PURPOSE:	Routine	START TIME (MST):	09:58
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	15:43

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100 ppb
SERIAL #	1152940011	FLOW (mL/min)	473
INITIAL		FINAL	
BKG/OFFSET	2.16	BKG/OFFSET	2.31
COEF/SLOPE	1.097	COEF/SLOPE	1.098
Expected (reference) Value	67.94	Expected (reference) Value	66.96

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	17100415	ID:	5004
MFC CALIBRATION DATE:	n/a	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0000644	HIGH ID	148944
CONC (ppm):	10.00	EXPIRY DATE	16-Nov-2021
CYLINDER (psi):	1000	LOW ID	152019
EXPIRY DATE	16-Jul-2022	EXPIRY DATE	16-Nov-2021

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
TARGET	78	38	19
RANGE	60 - 80	30 - 40	10 - 20

SCRUBBER CHECK (15 MINS; TRS/H2S ONLY):

START TIME:	10:48	SO2 Conc (ppb)	380
END TIME:	11:06	Analyzer Response (ppb)	0.1

CALIBRATION:

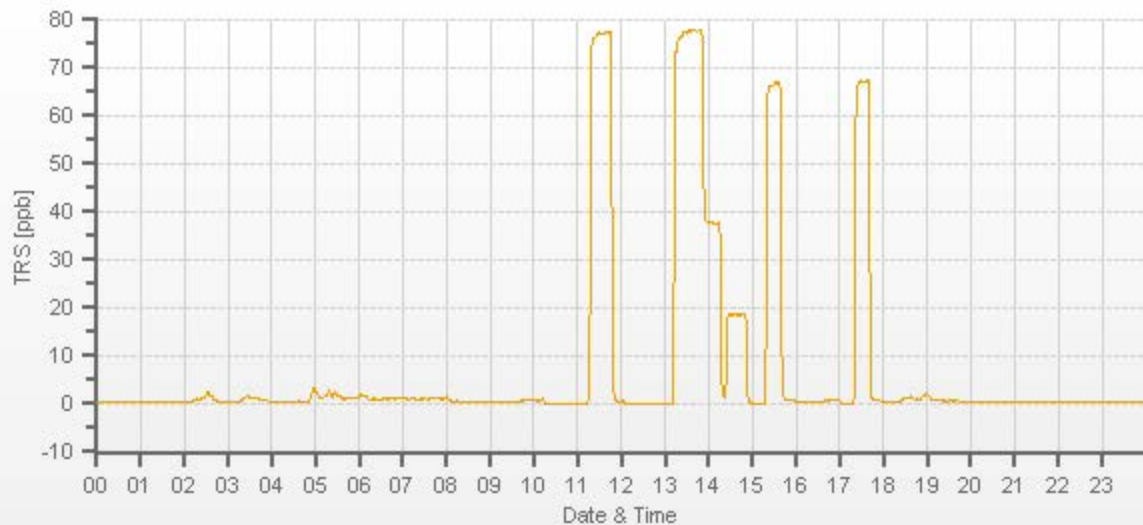
FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7510		7510	0.00	0.15	0		
7466	58.51	7524	77.77	77.49	77.79	1.006	1.000
7477	28.34	7505	37.76	n/a	37.69	n/a	1.002
7481	14.23	7495	18.99	n/a	18.8	n/a	1.010

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.



NOx Calibration by Dilution/Gas-Phase Titration



CALIBRATION:				ANALYZER:			
DATE:	24-Feb-2021	PREVIOUS CALIBRATION DATE:	20-Jan-2021	MAKE/MODEL:	Teledyne T200	PREVIOUS CF.	
CLIENT:	PRAMP	TEMPERATURE (°C):	24.3	SERIAL #:	837	NOx	1.000
LOCATION:	Cadotte Lake	BAROMETRIC (mBar):	944	FLOW (mL/min)	443	NO	1.000
PURPOSE:	Routine	START TIME (MST):	09:59	RANGE (ppb)	500	NO2	1.002
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	15:31	GPT FOR O3?		Yes	

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	EY0002493	HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	NO/NOx (PPM):	50.9 51.1	HIGH EXPIRY:	n/a
ID:	58100720	ID:	5004	CYLINDER (psi):	1600	LOW ID:	n/a
MFC CALIBRATION DATE:	25-Jan-2021	OXIDIZER ID:	n/a	EXPIRY DATE	13-Nov-2028	LOW EXPIRY:	n/a

CALIBRATION SETTINGS:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
BKG/OFFSET:	0.3	-0.6	n/a	BKG/OFFSET:	0.6	0.4	n/a
SLOPE/COEF/CE:	1.062	1.062	0.9993	SLOPE/COEF/CE:	1.051	1.048	0.9993

EXPECTED (REFERENCE) VALUE:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	329.5	3.6	326.0		328.9	2.3	326.7

CALIBRATION PARAMETERS:

POINT	NO TARGET (PPB)	NO2 TARGET (PPB)	NO2 RANGE	O3 POINT
HIGH	395	250	240-275	n/a
MID	180	154	150-157	Mid
LOW	90	54	50-58	Low
EXTRA 1	n/a	340	300-370	High

NO/NOx CALIBRATION:

FLOW RATE			CONCENTRATION (ppb)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2	NO	NOx	NO2
5002	38.80	5002	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.994	0.999	0.998	1.000	1.000	0.998
4966	38.80	5005	394.6	396.1	1.6	397.1	396.8	-0.3	394.7	396.2	1.5	0.994	0.999	0.998	1.000	1.000	0.998
4985	17.70	5003	180.1	180.8	0.7	n/a	n/a	n/a	180.4	180.6	0.2	n/a	n/a	0.998	0.998	1.001	0.998
4994	8.80	5003	89.5	89.9	0.4	n/a	n/a	n/a	90.9	91.0	0.1	n/a	n/a	0.998	0.985	0.988	0.998

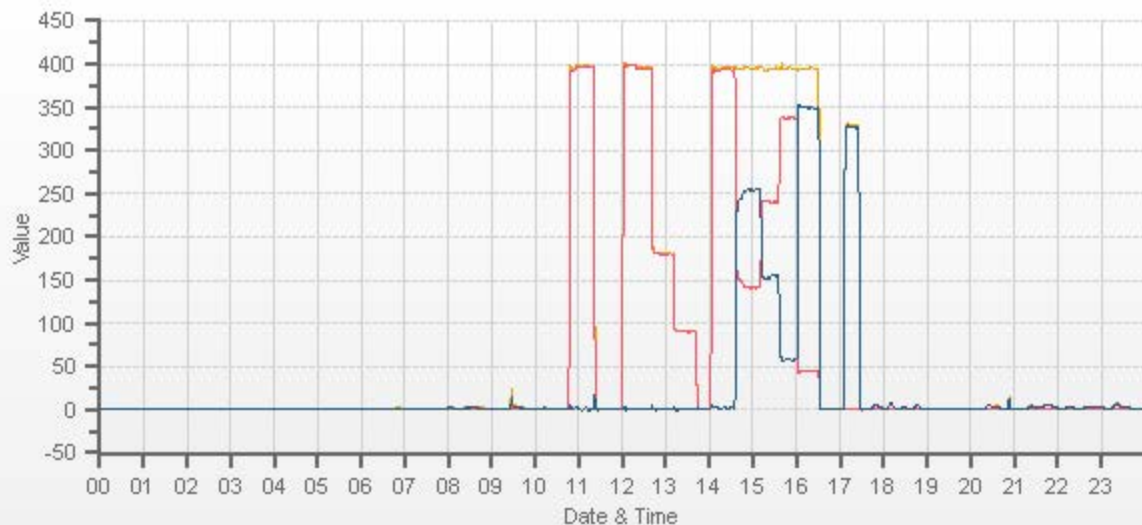
GPT CALIBRATION:

Point	CALIBRATOR			INDICATED (ppb)			NO DROP / O3 Conc (ppb)	NO2 GAIN (ppb)	NO2 Corr. FACTOR	CONV. EFFICIENCY
	GAS	TOTAL	O3 SETPOINT	NO	NOx	NO2				
REFERENCE	38.80	5005	0	393.3	395.8	2.5	252.4	252.3	1.000	99.96%
AS-FOUND HIGH	38.80	5005	250	140.9	395.6	254.8	252.4	252.3	1.000	99.96%
ADJUSTED HIGH	38.80	5005	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MID	38.80	5005	154	240.5	395.3	154.8	152.8	152.3	1.003	99.67%
LOW	38.80	5005	54	337.2	394.9	57.7	56.1	55.2	1.016	98.40%
NO2 adjustment not required.									AVERAGE:	99.34%

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	COMMENTS:
NO	1.000	0.999	0.12%	
NOx	1.000	0.999	0.08%	
NO2	1.000	1.004	-0.23%	

Sample filter changed.
Extra GPT point for O3 SETPOINT = 340; NO DROP/O3 = 347.8



CAL-PRAMP-202102-01651

NOX [ppb] NO [ppb] NO2 [ppb]

Ozone Calibration by Direct GPT



DATE:	24-Feb-2021	PREVIOUS CALIBRATION DATE:	20-Jan-2021
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.6
LOCATION:	Cadotte Lake	BAROMETRIC (mBar):	942
PURPOSE:	Routine	START TIME (MST):	16:46
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	21:07

ANALYZER:

MAKE/MODEL	Teledyne T400	RANGE	500 ppb
SERIAL #	824	FLOW (mL/min)	756
INITIAL		FINAL	
BKG/OFFSET	-0.5	BKG/OFFSET	0.2
COEF/SLOPE	1.039	COEF/SLOPE	1.034
Expected (reference) Value	317.4	Expected (reference) Value	307.1

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	58100720	ID:	5004
MFC CALIBRATION DATE:	25-Jan-2021	OXIDIZER ID:	n/a
CALIBRATION METHOD:		Direct GPT	
GPT DATE:	24-Feb-2021	GPT END TIME:	16:30

CALIBRATION PARAMETERS:

POINT	HIGH	MID	LOW
RANGE	300 - 400	150 - 200	50 - 100

CALIBRATION:

FLOW RATES			CONCENTRATION (ppb)			CORRECTION FACTOR	
(mL/min)			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
5003	5003	5003	0.0	-0.3	0.0	0.991	1.000
5003	5003	5003	347.8	350.8	347.8	0.991	1.000
5003	5003	5003	152.8	n/a	155.2	n/a	0.985
5003	5003	5003	56.1	n/a	56.7	n/a	0.989

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.2%

COMMENTS:

Daily zero/span at 17:00. Restart AF zero.
Sample filter changed.
Operator error at 18:25- Restart zero adjust at 18:31.



Methane/Non-Methane Analyzer Calibration by Dilution



CALIBRATION:				ANALYZER:			
DATE:	24-Feb-2021	PREVIOUS CALIBRATION DATE:	20-Jan-2021	VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
CLIENT:	PRAMP	TEMPERATURE (°C):	24.6		Thermo 55i	1191032505	1208.6
LOCATION:	Cadotte Lake	BAROMETRIC (mBar):	942	PARAMETER:	CH4	NMHC	THC
PURPOSE:	Routine	START TIME (MST):	15:00	RANGE (ppm):	20	20	40
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	18:53	PREVIOUS CF:	1.000	1.000	1.000

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:		FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL84567	HIGH ID:	148944
MODEL:	2010	MODEL:	M701	CH ₄ /C ₃ H ₈ (ppm):	591.0 200.0	HIGH EXPIRY:	16-Nov-2021
ID:	17100415	ID:	5004	CYLINDER (psi):	1100	LOW ID:	152019
MFC CALIBRATION DATE:	n/a	OXIDIZER ID:	Internal	EXPIRY DATE	17-Jul-2027	LOW EXPIRY:	16-Nov-2021

CALIBRATION PARAMETERS:

POINT (CH ₄ /NMHC)	HIGH	MID	LOW	CH ₄ EQUIVILANCE	
TARGET	14	7	3.5	C ₃ H ₈ as CH ₄	550.0
RANGE	12 - 16	6 - 8	2 - 4	THC as CH ₄	1141.0

EXPECTED (REFERENCE) VALUE:

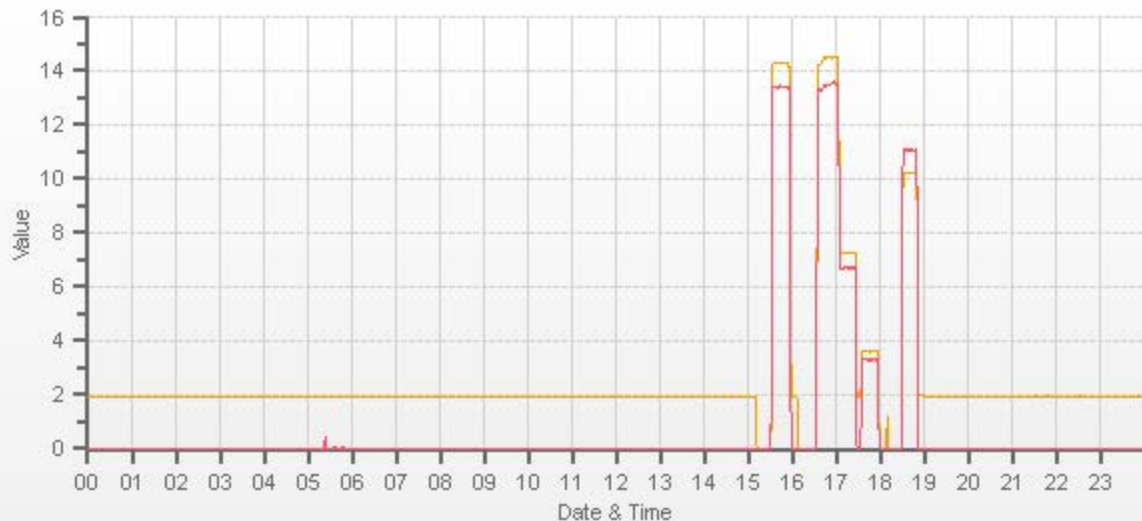
INITIAL	CH ₄	NMHC	THC	FINAL	CH ₄	NMHC	THC
	10.00	10.91	20.91		10.22	11.08	21.31

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC	CH ₄	NMHC	THC
3094	X	3094	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	X	X	X	X	X	X
3019	75.96	3095	14.50	13.50	28.00	14.29	13.42	27.71	14.51	13.56	28.07	1.015	1.006	1.011	1.000	0.995	0.998
3061	37.88	3098	7.23	6.72	13.95	n/a	n/a	n/a	7.26	6.71	13.96	n/a	n/a	n/a	0.995	1.002	0.999
3086	18.93	3105	3.60	3.35	6.96	n/a	n/a	n/a	3.63	3.31	6.95	n/a	n/a	n/a	0.993	1.013	1.001

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT	Comments:			
CH ₄	1.000	1.000	0.1%	Sample filter changed. Monthly calibration - no issues.			
NMHC	1.000	1.006	-0.2%				
THC	1.000	1.003	0.0%				
				Use Zero Chrom?		Yes	



CAL-PRAMP-202102-01651

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CH4 [ppm] NMHC [ppm]



Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	February 24, 2021	January 19, 2021	Weather Conditions:	Mainly clear	
Company:	PRAMP		Start Time (mst):	13:15	
Station:	Cadotte Lake		End Time (mst):	13:55	
Parameter:	PM 2.5		Performed By/Reviewer:	Ferdinand Roy	Chris Wesson
Instrument Data:					
Make/Model:	Teledyne T640		Serial Number:	318	
Owner:	PRAMP		Alarms (detail in comments):	No	
Reference Standards/I.D./Expiry Date:					
Flow Standard: Maxxam ID #3 expires June 11, 2021			Temperature: F.S. 160348895 expires Sep 4, 2022		
Digital Manometer: Dwyer 475 Mark III id# 2 expires Feb 17, 2022			Pressure: F.S. 10528 expires Feb 17, 2022		
DIAGNOSTICS:					
Ambient Pressure (mmHg)	708.9	Ambient Temp (°C)	0.9	ASC Heater Duty (%)	0.0
Box Temp (°C)	27.2	Current PMT HV (V)	1541	LED Temp (°C)	35.05
P3 Value	46	PMT Setting (V)	1547	Pump PWM (%)	41
Sample Flow (L/min)	4.99	Sample RH (%RH)	8.1	Sample Temp (°C)	24.9
Item:	As-found		As-left		Tolerance
	Reference	T640x	Reference	T640x	
Zero Test (Leak Check)	PM10	0.0	0	0.0	0.0 to 0.2
	PM2.5	0.0	0	0.0	
Ambient Pressure (mmHg)	707.3	708.5	706.6	708.6	+/- 10 mm Hg
Ambient Temperature (°C)	-0.88	1.1	n/a		+/- 2°C
Sample Flow (L/min)	5.00	4.99	4.98	5.02	+/-5% of T640x (e.g., 4.75 – 5.25 lpm)
Additional Monthly Maintenance :					Completed
Inlet cleaned?					Yes
Sample tubing inspected (inner and outer)?					Yes
Comments:					
No issues.					

Meteorological System Checklist



Date:	February 24, 2021		
Technician:	Ferdinand Roy		
Station:	PRAMP Cadotte Lake		
Unit:	Make:	Model:	Serial #:
Temperature Sensor:	Vaisala	HMP155	N2910506
Relative Humidity Sensor:	Vaisala	HMP155	N2910506
Anemometer:	RM Young	05305AQ	174801
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	January 19, 2021		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	F.S. 160348895 expires Sep 4, 2022		
Reference Temperature (°C):	-0.8		
Station - Ambient Temperature (°C):	-0.2		
Temperature Difference (°C):	-0.6		
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	January 19, 2021		
Reference Hygrometer ID:	F.S. 160348895 expires Sep 4, 2022		
Reference Hygrometer % RH- Reading:	42.50		
Station Hygrometer % RH- Reading:	42.20		
RH Tolerance +/- 15% of difference:	36.13 - 48.88	0.7%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	January 19, 2021	Previous check date:	January 19, 2021
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	16.4	Wind Direction on Data Logger:	W
		Wind Direction Pass/Fail?:	Pass
Comments			
No issues. Temp/RH @12:44; WS/Wd @ 12:49			



Meteorological Sensor Audit/Calibration

Location Information

Company: PRAMP
 Audit Location: Cadotte Lake
 Audit Date: June 18, 2020
 Calibration Purpose: installation

Performed By: Chris Wesson
 Reviewed By: Ferdinand Roy
 Start/End Time (mst): 14:28 / 15:15
 Weather Conditions: Mix of sun and clouds

Wind Sensor Information

Sensor ID Data:		Sensor Outputs:	
Sensor Make:	RM Young	Velocity Voltage Output Range:	n/a
Sensor Model:	05305AQ	Velocity Unit Output Range:	0-180
Serial #:	174801	Direction Voltage Output Range:	n/a
Previous Cal/Audit Date:	n/a	Direction Unit Output Range:	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# CA03309 expires November 20, 2020

Wind Speed Audit Data ****+/- 2% of the average correction factor is the limit****

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.3	18.3	1.007
2000	36.9	36.7	36.7	1.004
3000	55.3	55.1	55.1	1.003
4000	73.7	73.6	73.6	1.002
5000	92.2	92.0	92.0	1.002
6000	110.6	110.5	110.5	1.001
7000	129.0	128.9	128.9	1.001
8000	147.4	147.3	147.3	1.001
9000	165.9	165.8	165.8	1.000
10000	184.3	184.2	184.2	1.001
The audit meets AMD requirements.			Average Correction Factor=	1.002

Wind Direction Audit Data ****+/- 3° of the absolute average degrees difference for all points is the limit****

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	0	353	0.1	2.0	1.1
30	330	28	329	2.0	1.0	1.5
60	300	58	299	2.0	1.0	1.5
90	270	88	268	2.0	2.0	2.0
120	240	119	239	1.0	1.0	1.0
150	210	149	209	1.0	1.0	1.0
180	180	179	179	1.0	1.0	1.0
210	150	209	149	1.0	1.0	1.0
240	120	239	119	1.0	1.0	1.0
270	90	270	89	0.0	1.0	0.5
300	60	299	58	1.0	2.0	1.5
330	30	329	29	1.0	1.0	1.0
355	0	354	1	1.0	0.6	0.8
The audit meets AMD requirements.				Average Absolute Degrees Difference=		1.1

Comments:

Declination = 15deg East



Peace River Area Monitoring Program

FEBRUARY 2021

Ambient Air Monitoring

Certified Laboratory Analysis Report

LAB-PRAMP-202102

Operation and Maintenance:

Bureau Veritas Canada

Data Validation and Report:

Peace River Area Monitoring Program

December 20, 2020



Highway 16A & 75 Street
PO Bag 4000
Vegreville, AB, T9C 1T4
Environmental Analytical Services
Phone: (780) 632-8403 Fax: (780) 632-8620

Sample ID 21030002-001 Priority Normal



Customer ID: PRAMP
Cust Samp ID: PRAMP_986-2021/02/26

Date Received- Lab Use Only

RECEIVED

MAR 01 2021

Client Contact Details:

Contact: Karla Ressor, Michael Bisaga/ Lily Lin

Company: PRAMP Airshed

PO#: ☐ 842 Station ☐ 986 Station ☐ Reno Station

Address: ☐ 842 (Lat. 56.27406N, Long. 116.98129W)

☒ 986 (Lat. 56.36988N, Long. 116.925636W)

☐ Reno (Lat. 55.86936N, Long. 117.05739W)

Telephone: 403-8072995, 780-2667068/587-2252248

Email: karla@prampairshed.ca, pramptech@prampairshed.ca

RUSH (Surcharge) ☐

Invoice Instructions:

Send to: officemanager@prampairshed.ca, karla@prampairshed.ca,

pramptech@prampairshed.ca Attention: PRAMP Office Manager

Any correspondence related to canister analysis, send the information to karla@prampairshed.ca and pramptech@prampairshed.ca

InnoTech Contact: Graham Knox Phone: 780-6328403 Cell: 780-6321519

Email: Graham.Knox@innotechalberta.ca

Sample ID (PRAMP_station_yyyymmdd)	Canister Number	Sample Description	Date/Time Sampled		Analysis Requested
			From/To		
			Date (dd/mm/yy)	Time (24 Hr) (MST)	
PRAMP_842- _____ (Sample date: yyyymmdd)	28956	☐ Methane Trigger	Feb 26	14:07	* AIR C1C4, AIR VOC, AIR RSC
PRAMP_986- <u>2021/02/26</u> (Sample date: yyyymmdd)		☒ NMHC Trigger			* Unknown to be reported
PRAMP_Reno- _____ (Sample date: yyyymmdd)		☐ Methane Blank			* Carbon Isotopic Analysis (if sample is collected from Methane trigger)
		☐ NMHC Blank			
		☐ Expired Canister – No further analysis is required.			

Sample Collection:

Collect By Dwayne (Name) of _____ (Company) on Feb 26/2021 (Date/Time (MST)) @ 14:07



Highway 16A & 75 Street
PO Bag 4000
Vegreville, AB, T9C 1T4
Environmental Analytical Services
Phone: (780) 632-8403 Fax: (780) 632-8620

Sample ID 21030002-002 Priority Normal



Customer ID: PRAMP
Cust Samp ID: PRAMP_986-2021/02/21_Blank

Date Received- Lab Use Only

RECEIVED

MAR 01 2021

Client Contact Details:

Contact: Karla Ressor, Michael Bisaga/ Lily Lin
Company: PRAMP Airshed
PO#: ☐ 842 Station ☐ 986 Station ☐ Reno Station
Address: ☐ 842 (Lat. 56.27406N, Long. 116.98129W)
☒ 986 (Lat. 56.36988N, Long. 116.925636W)
☐ Reno (Lat. 55.86936N, Long. 117.05739W)
Telephone: 403-8072995, 780-2667068/587-2252248
Email: karla@prampairshed.ca, pramp@prampairshed.ca

RUSH (Surcharge) ☐

Invoice Instructions:

Send to: officemanager@prampairshed.ca, karla@prampairshed.ca,
pramp@prampairshed.ca Attention: PRAMP Office Manager
Any correspondence related to canister analysis, send the information to karla@prampairshed.ca
and pramp@prampairshed.ca

InnoTech Contact: Graham Knox Phone: 780-6328403 Cell: 780-6321519

Email: Graham.Knox@innotechalberta.ca

Sample ID (PRAMP_station_YYYYMMDD)	Canister Number	Sample Description	Date/Time Sampled		Analysis Requested
			From/To		
			Date (dd/mm/yy)	Time (24 Hr) (MST)	
PRAMP_842- _____ (Sample date: YYYYMMDD) PRAMP_986- <u>2021/02/24</u> (Sample date: YYYYMMDD) PRAMP_Reno- _____ (Sample date: YYYYMMDD)	 				

Sample Collection:

Collect By D. Syre (Name) of _____ (Company) on _____ (Date/Time (MST)). Feb 26/2021

 Canister ID: 28956

This cleaned canister meets or exceeds TO-15 Method Specifications

Proofed by: DOSY on: NOV 30 2020

Evacuated: DEC 01 2020 Recertified: DEC 17 2020

(Use within: 3 months from evacuation or recertification date)

Laboratory Contact Number: 780-632-8403

Sample ID: PRAMP-986 C 20210226

Sampled By: Dwayne
NMHC Trigger

Starting Vacuum: -27.3 "Hg

End Vacuum: 0 -1 "Hg/psig

 Canister ID: 28951

This cleaned canister meets or exceeds TO-15 Method Specifications

Proofed by: DOSY on: NOV 05 2020

Evacuated: DEC 01 2020 Recertified: DEC 17 2020

(Use within: 3 months from evacuation or recertification date)

Laboratory Contact Number: 780-632-8403

Sample ID: PRAMP 986 B100K

Sampled By: Dwayne

Starting Vacuum: -27.1 "Hg

End Vacuum: 31 "Hg/psig

Sample ID 21030002-001 Priority Normal



Customer ID: PRAMP
Cust Samp ID: PRAMP_986-2021/02/26

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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RESULTS: Karla Reesor 403 807 2995
Peace River Area Monitoring Program Committee

INVOICE: Office Manager

CLIENT SAMPLE ID
PRAMP_986-2021/02/21_Blank

Matrix
Ambient Air

CANISTER ID: 28951
PRIORITY: Normal
DESCRIPTION: NMHC Blank

DATE SAMPLED: 26-Feb-21 14:07
REPORT CREATED: 03-Mar-21

DATE RECEIVED: 01-Mar-21
REPORT NUMBER: 21030002
VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21030002-002	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	01-Mar-21
21030002-002	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	01-Mar-21
21030002-002	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	01-Mar-21
21030002-002	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	01-Mar-21
21030002-002	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	01-Mar-21
21030002-002	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	01-Mar-21
21030002-002	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	01-Mar-21
21030002-002	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	01-Mar-21
21030002-002	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	01-Mar-21
21030002-002	Methane	K, T, U	< 0.1 ppmv	0.1	NA-025	01-Mar-21
21030002-002	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	01-Mar-21
21030002-002	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	01-Mar-21
21030002-002	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	01-Mar-21
21030002-002	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	01-Mar-21
21030002-002	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	01-Mar-21
21030002-002	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	01-Mar-21
21030002-002	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	01-Mar-21
21030002-002	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	01-Mar-21

Report certified by: Rebecca Holgate, Account Coordinator

On behalf of: PJ Pretorius, Manager, Analysis and Testing Services

Date: March 3, 2021

LAB-PRAMP-202102

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-2021/02/21_Blank		28951	Ambient Air	26-Feb-21	14:07
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	21030002	REPORT CREATED:	03-Mar-21	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21030002-002	Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-002	Carbon disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	01-Mar-21
21030002-002	Carbonyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-002	Dimethyl disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	01-Mar-21
21030002-002	Dimethyl sulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	01-Mar-21
21030002-002	Ethyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-002	Ethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-002	Hydrogen sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-002	Isobutyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-002	Isopropyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-002	Methyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	01-Mar-21
21030002-002	Pentyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	01-Mar-21
21030002-002	Propyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	01-Mar-21
21030002-002	tert-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-002	Thiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	01-Mar-21
21030002-002	1,1,1-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	1,1,2-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	1,1-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	1,1-Dichloroethylene	K, T, U	< 0.04	ppbv	0.04	AC-058	02-Mar-21
21030002-002	1,2,3-Trimethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	02-Mar-21
21030002-002	1,2,4-Trichlorobenzene	K, T, U	< 0.8	ppbv	0.8	AC-058	02-Mar-21
21030002-002	1,2,4-Trimethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	02-Mar-21
21030002-002	1,2-Dibromoethane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	1,2-Dichlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21

Report certified by: Rebecca Holgate, Account Coordinator

On behalf of: PJ Pretorius, Manager, Analysis and Testing Services

Date: March 3, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

LAB-PRAMP-202102

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-2021/02/21_Blank		28951	Ambient Air	26-Feb-21	14:07
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	21030002	REPORT CREATED:	03-Mar-21	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21030002-002	1,2-Dichloroethane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	1,2-Dichloropropane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	1,3,5-Trimethylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	1,3-Butadiene	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	1,3-Dichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	02-Mar-21
21030002-002	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-002	1,4-Dioxane	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-002	1-Butene/Isobutylene		1.10	ppbv	0.02	AC-058	02-Mar-21
21030002-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	1-Pentene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	2,2,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	2,2-Dimethylbutane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	2,3,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	2,3-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	2,3-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	2,4-Dimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	2-Methylheptane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	2-Methylhexane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	2-Methylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	3-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	3-Methylhexane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	3-Methylpentane		0.09	ppbv	0.01	AC-058	02-Mar-21
21030002-002	Acetone	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-002	Acrolein	K, T, U	< 0.3	ppbv	0.3	AC-058	02-Mar-21
21030002-002	Benzene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21

Report certified by: Rebecca Holgate, Account Coordinator

On behalf of: PJ Pretorius, Manager, Analysis and Testing Services

Date: March 3, 2021

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-2021/02/21_Blank		28951	Ambient Air	26-Feb-21	14:07
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	21030002	REPORT CREATED:	03-Mar-21	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21030002-002	Benzyl chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-002	Bromodichloromethane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Bromoform	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Bromomethane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	Carbon disulfide	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	Carbon tetrachloride	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	Chlorobenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Chloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Chloroform	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Chloromethane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	cis-1,2-Dichloroethene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	cis-1,3-Dichloropropene	K, T, U	< 0.04	ppbv	0.04	AC-058	02-Mar-21
21030002-002	cis-2-Butene	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	cis-2-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Cyclohexane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Cyclopentane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	Dibromochloromethane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	Ethanol		1.0	ppbv	0.3	AC-058	02-Mar-21
21030002-002	Ethyl acetate	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-002	Ethylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	Freon-11	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Freon-113	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	Freon-114	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Freon-12	I	0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Hexachloro-1,3-butadiene	K, T, U	< 0.50	ppbv	0.50	AC-058	02-Mar-21

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PRAMP_986-2021/02/21_Blank		28951	Ambient Air	26-Feb-21	14:07
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	21030002	REPORT CREATED:	03-Mar-21	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21030002-002	Isobutane		0.67	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Isopentane	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-002	Isoprene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	Isopropyl alcohol	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-002	Isopropylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	m,p-Xylene	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-002	m-Diethylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	02-Mar-21
21030002-002	m-Ethyltoluene	K, T, U	< 0.08	ppbv	0.08	AC-058	02-Mar-21
21030002-002	Methyl butyl ketone	K, T, U	< 0.50	ppbv	0.50	AC-058	02-Mar-21
21030002-002	Methyl ethyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	02-Mar-21
21030002-002	Methyl isobutyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-002	Methyl methacrylate	K, T, U	< 0.07	ppbv	0.07	AC-058	02-Mar-21
21030002-002	Methyl tert butyl ether	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-002	Methylcyclohexane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	Methylcyclopentane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Methylene chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	02-Mar-21
21030002-002	n-Butane		0.76	ppbv	0.03	AC-058	02-Mar-21
21030002-002	n-Decane	K, T, U	< 0.06	ppbv	0.06	AC-058	02-Mar-21
21030002-002	n-Dodecane	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-002	n-Heptane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	n-Hexane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	n-Octane	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	n-Pentane	K, T, U	< 0.1	ppbv	0.1	AC-058	02-Mar-21
21030002-002	n-Propylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	02-Mar-21
21030002-002	n-Undecane	K, T, U	< 0.5	ppbv	0.5	AC-058	02-Mar-21

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PRAMP_986-2021/02/21_Blank		28951	Ambient Air	26-Feb-21	14:07
DESCRIPTION:	NMHC Blank				
REPORT NUMBER:	21030002	REPORT CREATED:	03-Mar-21	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21030002-002	Naphthalene	K, T, U	< 0.5	ppbv	0.5	AC-058	02-Mar-21
21030002-002	n-Nonane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	o-Ethyltoluene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	o-Xylene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	p-Diethylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	02-Mar-21
21030002-002	p-Ethyltoluene	K, T, U	< 0.07	ppbv	0.07	AC-058	02-Mar-21
21030002-002	Styrene	K, T, U	< 0.04	ppbv	0.04	AC-058	02-Mar-21
21030002-002	Tetrachloroethylene	K, T, U	< 0.04	ppbv	0.04	AC-058	02-Mar-21
21030002-002	Tetrahydrofuran	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-002	Toluene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	trans-1,2-Dichloroethylene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	trans-1,3-Dichloropropylene	K, T, U	< 0.04	ppbv	0.04	AC-058	02-Mar-21
21030002-002	trans-2-Butene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-002	trans-2-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21
21030002-002	Trichloroethylene	K, T, U	< 0.04	ppbv	0.04	AC-058	02-Mar-21
21030002-002	Vinyl acetate	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-002	Vinyl chloride	K, T, U	< 0.02	ppbv	0.02	AC-058	02-Mar-21

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-2021/02/26		28956	Ambient Air	26-Feb-21	14:07
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	21030002	REPORT CREATED:	03-Mar-21	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21030002-001	1-Butene	K, T, U	< 0.14	ppmv	0.14	NA-025	01-Mar-21
21030002-001	Acetylene	K, T, U	< 0.11	ppmv	0.11	NA-025	01-Mar-21
21030002-001	n-Butane	K, T, U	< 0.3	ppmv	0.3	NA-025	01-Mar-21
21030002-001	cis-2-Butene	K, T, U	< 0.06	ppmv	0.06	NA-025	01-Mar-21
21030002-001	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	01-Mar-21
21030002-001	Ethylacetylene	K, T, U	< 0.08	ppmv	0.08	NA-025	01-Mar-21
21030002-001	Ethylene	K, T, U	< 0.10	ppmv	0.10	NA-025	01-Mar-21
21030002-001	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	01-Mar-21
21030002-001	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	01-Mar-21
21030002-001	Methane		2.4	ppmv	0.1	NA-025	01-Mar-21
21030002-001	n-Propane	K, T, U	< 0.10	ppmv	0.10	NA-025	01-Mar-21
21030002-001	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	01-Mar-21
21030002-001	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	01-Mar-21
21030002-001	trans-2-Butene	K, T, U	< 0.12	ppmv	0.12	NA-025	01-Mar-21
21030002-001	2,5-Dimethylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	01-Mar-21
21030002-001	2-Ethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-001	2-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-001	3-Methylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	01-Mar-21
21030002-001	Butyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	01-Mar-21
21030002-001	Carbon disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-001	Carbonyl sulphide		1.5	ppbv	0.4	NA-024	01-Mar-21
21030002-001	Dimethyl disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-001	Dimethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-001	Ethyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	01-Mar-21
21030002-001	Ethyl sulphide	K, T, U	< 0.4	ppbv	0.4	NA-024	01-Mar-21

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-2021/02/26		28956	Ambient Air	26-Feb-21	14:07
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	21030002	REPORT CREATED:	03-Mar-21	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21030002-001	Hydrogen sulphide	K, T, U	< 0.4	ppbv	0.4	NA-024	01-Mar-21
21030002-001	Isobutyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	01-Mar-21
21030002-001	Isopropyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	01-Mar-21
21030002-001	Methyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-001	Pentyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	01-Mar-21
21030002-001	Propyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	01-Mar-21
21030002-001	tert-Butyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	01-Mar-21
21030002-001	Thiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	01-Mar-21
21030002-001	1,1,1-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	1,1,2-Trichloroethane	I	0.08	ppbv	0.03	AC-058	02-Mar-21
21030002-001	1,1-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	1,1-Dichloroethylene	K, T, U	< 0.06	ppbv	0.06	AC-058	02-Mar-21
21030002-001	1,2,3-Trimethylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	02-Mar-21
21030002-001	1,2,4-Trichlorobenzene	K, T, U	< 1.1	ppbv	1.1	AC-058	02-Mar-21
21030002-001	1,2,4-Trimethylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	02-Mar-21
21030002-001	1,2-Dibromoethane	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	1,2-Dichlorobenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	02-Mar-21
21030002-001	1,2-Dichloroethane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	1,2-Dichloropropane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-001	1,4-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	02-Mar-21
21030002-001	1,4-Dioxane	K, T, U	< 0.6	ppbv	0.6	AC-058	02-Mar-21

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PRAMP_986-2021/02/26		28956	Ambient Air	26-Feb-21	14:07
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	21030002	REPORT CREATED:	03-Mar-21	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21030002-001	1-Butene/Isobutylene		3.39	ppbv	0.03	AC-058	02-Mar-21
21030002-001	1-Hexene/2-Methyl-1-pentene	I	0.34	ppbv	0.03	AC-058	02-Mar-21
21030002-001	1-Pentene		1.21	ppbv	0.01	AC-058	02-Mar-21
21030002-001	2,2,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	2,2-Dimethylbutane		0.21	ppbv	0.01	AC-058	02-Mar-21
21030002-001	2,3,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	2,3-Dimethylbutane		0.24	ppbv	0.03	AC-058	02-Mar-21
21030002-001	2,3-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	2,4-Dimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	2-Methylheptane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	2-Methylhexane		0.19	ppbv	0.01	AC-058	02-Mar-21
21030002-001	2-Methylpentane		0.74	ppbv	0.01	AC-058	02-Mar-21
21030002-001	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	3-Methylhexane	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	3-Methylpentane		0.38	ppbv	0.01	AC-058	02-Mar-21
21030002-001	Acetone		5.9	ppbv	0.6	AC-058	02-Mar-21
21030002-001	Acrolein	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-001	Benzene		0.34	ppbv	0.01	AC-058	02-Mar-21
21030002-001	Benzyl chloride	K, T, U	< 0.6	ppbv	0.6	AC-058	02-Mar-21
21030002-001	Bromodichloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Bromoform	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Bromomethane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	Carbon disulfide	I	0.19	ppbv	0.01	AC-058	02-Mar-21
21030002-001	Carbon tetrachloride	I	0.15	ppbv	0.01	AC-058	02-Mar-21
21030002-001	Chlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21

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DESCRIPTION:	NMHC Trigger				
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Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21030002-001	Chloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Chloroform	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Chloromethane		1.45	ppbv	0.03	AC-058	02-Mar-21
21030002-001	cis-1,2-Dichloroethene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	cis-1,3-Dichloropropene	K, T, U	< 0.06	ppbv	0.06	AC-058	02-Mar-21
21030002-001	cis-2-Butene	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	cis-2-Pentene		0.17	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Cyclohexane	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Cyclopentane		0.28	ppbv	0.01	AC-058	02-Mar-21
21030002-001	Dibromochloromethane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	Ethanol		9.4	ppbv	0.4	AC-058	02-Mar-21
21030002-001	Ethyl acetate	K, T, U	< 0.6	ppbv	0.6	AC-058	02-Mar-21
21030002-001	Ethylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	Freon-11	I	0.37	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Freon-113	I	0.17	ppbv	0.01	AC-058	02-Mar-21
21030002-001	Freon-114	I	0.04	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Freon-12		0.78	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Hexachloro-1,3-butadiene	K, T, U	< 0.69	ppbv	0.69	AC-058	02-Mar-21
21030002-001	Isobutane		2.26	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Isopentane		5.11	ppbv	0.04	AC-058	02-Mar-21
21030002-001	Isoprene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	Isopropyl alcohol		2.9	ppbv	0.6	AC-058	02-Mar-21
21030002-001	Isopropylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	m,p-Xylene	K, T, U	< 0.04	ppbv	0.04	AC-058	02-Mar-21
21030002-001	m-Diethylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	02-Mar-21

Report certified by: Rebecca Holgate, Account Coordinator

On behalf of: PJ Pretorius, Manager, Analysis and Testing Services

Date: March 3, 2021

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LAB-PRAMP-202102

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-2021/02/26		28956	Ambient Air	26-Feb-21	14:07
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	21030002	REPORT CREATED:	03-Mar-21	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21030002-001	m-Ethyltoluene	K, T, U	< 0.11	ppbv	0.11	AC-058	02-Mar-21
21030002-001	Methyl butyl ketone	K, T, U	< 0.69	ppbv	0.69	AC-058	02-Mar-21
21030002-001	Methyl ethyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-001	Methyl isobutyl ketone	K, T, U	< 0.6	ppbv	0.6	AC-058	02-Mar-21
21030002-001	Methyl methacrylate	K, T, U	< 0.10	ppbv	0.10	AC-058	02-Mar-21
21030002-001	Methyl tert butyl ether	K, T, U	< 0.04	ppbv	0.04	AC-058	02-Mar-21
21030002-001	Methylcyclohexane	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	Methylcyclopentane		0.21	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Methylene chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	02-Mar-21
21030002-001	n-Butane		2.56	ppbv	0.04	AC-058	02-Mar-21
21030002-001	n-Decane	K, T, U	< 0.08	ppbv	0.08	AC-058	02-Mar-21
21030002-001	n-Dodecane	K, T, U	< 0.6	ppbv	0.6	AC-058	02-Mar-21
21030002-001	n-Heptane		0.32	ppbv	0.01	AC-058	02-Mar-21
21030002-001	n-Hexane		0.84	ppbv	0.01	AC-058	02-Mar-21
21030002-001	n-Octane		0.20	ppbv	0.03	AC-058	02-Mar-21
21030002-001	n-Pentane		4.6	ppbv	0.1	AC-058	02-Mar-21
21030002-001	n-Propylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	02-Mar-21
21030002-001	n-Undecane	K, T, U	< 0.7	ppbv	0.7	AC-058	02-Mar-21
21030002-001	Naphthalene	K, T, U	< 0.7	ppbv	0.7	AC-058	02-Mar-21
21030002-001	n-Nonane		0.14	ppbv	0.01	AC-058	02-Mar-21
21030002-001	o-Ethyltoluene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	o-Xylene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	p-Diethylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	02-Mar-21
21030002-001	p-Ethyltoluene	K, T, U	< 0.10	ppbv	0.10	AC-058	02-Mar-21
21030002-001	Styrene	K, T, U	< 0.06	ppbv	0.06	AC-058	02-Mar-21

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On behalf of: PJ Pretorius, Manager, Analysis and Testing Services

Date: March 3, 2021

LAB-PRAMP-202102

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CLIENT SAMPLE ID		CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-2021/02/26		28956	Ambient Air	26-Feb-21	14:07
DESCRIPTION:	NMHC Trigger				
REPORT NUMBER:	21030002	REPORT CREATED:	03-Mar-21	VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21030002-001	Tetrachloroethylene	K, T, U	< 0.06	ppbv	0.06	AC-058	02-Mar-21
21030002-001	Tetrahydrofuran	K, T, U	< 0.6	ppbv	0.6	AC-058	02-Mar-21
21030002-001	Toluene		0.21	ppbv	0.01	AC-058	02-Mar-21
21030002-001	trans-1,2-Dichloroethylene		0.69	ppbv	0.01	AC-058	02-Mar-21
21030002-001	trans-1,3-Dichloropropylene	K, T, U	< 0.06	ppbv	0.06	AC-058	02-Mar-21
21030002-001	trans-2-Butene	K, T, U	< 0.01	ppbv	0.01	AC-058	02-Mar-21
21030002-001	trans-2-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21
21030002-001	Trichloroethylene	K, T, U	< 0.06	ppbv	0.06	AC-058	02-Mar-21
21030002-001	Vinyl acetate		0.7	ppbv	0.6	AC-058	02-Mar-21
21030002-001	Vinyl chloride	K, T, U	< 0.03	ppbv	0.03	AC-058	02-Mar-21

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Revision History

Order ID	Ver	Date	Reason
21030002	01	03-Mar-21	Report created

Methods

Method	Description
AC-058	Determination of Volatile Organic Compounds in Ambient Air by Gas Chromatography Mass Spectrometry
NA-024	Analysis for Reduced Sulfur Compounds in Air Samples
NA-025	Determination of Light Hydrocarbons (C1C4) in Ambient Air by Gas Chromatography Flame Ionization Detector

Qualifiers

Data Qualifier	Translation
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B	Blank contamination; Analyte detected above the method reporting limit in an associated blank
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J1	Reported value is estimated; Surrogate recoveries limits were exceeded
J2	Reported value is estimated; No known QC criteria for this component
J3	Reported value is estimated; The value failed to meet QC criteria for either precision or accuracy
J4	Reported value is estimated; The sample matrix interfered with the analysis
K	Off-scale low. Actual value is known to be less than the value given
L	Off-scale high. Actual value is known to be greater than value given
N	Non-target analyte; Tentatively identified compound (using mass spectroscopy)
Q	Sample held beyond the accepted holding time
R	Rejected data; Not suitable for the projects intended use
T	Value reported is less than the laboratory method detection limit
U	Compound was analyzed for but not detected
V	Analyte was detected in both the sample and the associated method blank



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Order Comments

21030002

Send results to pramptech@prampairshed.ca.



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Sample Comments

Result Comments

Note:

- 1. Results relate only to items tested and apply to the sample as received.*
- 2. This report shall not be reproduced, except in full, without the explicit approval of the laboratory.*

End of Report