Peace River Area Monitoring Program

MAY 2021

Monthly Ambient Air Quality Monitoring Report

PRAMP-202105

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

June 16, 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
CH4	Methane
EPEA	Environmental Protection and Enhancement Act
H2S	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
SO2	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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June 16, 2021

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

Enclosed is the May 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

PRAMP Airshed
Michael Bisaga / Lily Lin, Technical Program Managers
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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 May 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.
- A power failure event occurred on May 7. Four hours of downtime for all gas parameters and three hours of downtime for all meteorological channels were recorded. For the HC channels, data that was collected at hour 13 were also discarded as the analyzer was recovering from the power failure.
- **Precipitation:** Six hours of data collected in May were invalidated due to a sensor malfunction, which was caused by low ambient air temperatures.

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.

- **All parameters:** A power failure event occurred on May 7. Four hours of downtime were recorded due to this event.
- **All gas parameters:** The scheduled daily zero-span check on May 24 was interrupted due to a logger error. All analyzers passed the zero-span check on May 25 and afterwards.
- **TRS:** On May 12, the BV-supplied Thermo 43i-TLE analyzer, s/n: 1162460023, was removed from the station after the shut down calibration. The PRAMP-owned Thermo 43iQTL analyzer, s/n: 1200736630, was installed and calibrated successfully afterwards. Two hours of downtime were recorded due to the analyzer swap.
- **THC/CH4/NMHC:**
    - On May 12, the sample pump was serviced after the shut down calibration. A post-repair calibration was completed after the maintenance activity was completed.
    - A noticeable baseline shift was identified after the monthly calibration on May 12. No issues were identified during the calibration. The shift was likely caused by different calibration equipment that were used in this calibration. Differences between calibration systems are normal and expected (<=5%). In order to minimize differences, calibration gas cylinders used across the PRAMP network were selected based on similar apparent concentrations (similar known concentrations of calibration gases based on certification results). PRAMP is investigating ways to minimize any difference due to concentration variations from calibration gases including using dedicated gas cylinders for the PRAMP network.
- **Precipitation:** The precipitation gauge was tested on May 12. The test results showed the equipment was not working properly. It was determined that the test result was not valid due to an operator error. The device will be retested during the site visit in June. No data are currently affected as a result of this finding.

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.
- **THC/CH4/NMHC:** Both N2 and H2 gas bottles were replaced on May 17. One hour of downtime was recorded due to this event.

AQHI – Cadotte Lake Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAQGs) 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.
- Power outage events occurred on May 7, 9, 12, 13 and 30. Forty hours of downtime for all meteorological channels and forty-five hours downtime for all gas parameters were recorded. Following the power outages, extra instrument recovery time was needed for all gas parameters on May 7 hour 17 and May 13 hour 11. For the TRS and HC channels, data collected on May 9 hour 14 and May 30 hour 15 were also invalidated as the analyzer required extra recovery time from the power outages.

- **TRS:**
  - The analyzer failed on May 16 between hour 12 and hour 14 and recovered spontaneously during hour 15. The cause was likely due to unstable power supply to the analyzer. Three hours of downtime were recorded.
  - Hourly data collected on May 17 hour 5 was discarded as less than 75% of valid 1- minute data in the hour were recorded. The issue was likely due to unstable power supply to the analyzer.
- **NOx/NO/NO2:** The analyzer was put offline on May 20 for the GPT points to obtain O3 calibration set points. Two hours of downtime were recorded due to this event.
- **O3:**
  - In order to confirm the analyzer zero check response, an as-found points check was performed on May 20 between hour 8 and 9 using an API 701 zero air in the calibration system. The analyzer response passed the check requirements. A successful monthly calibration was completed afterwards. Two hours of downtime were recorded due to the additional quality check.
  - A repeat zero-span check was completed on May 28 hour 9 and 10 to investigate negative zero drift. The analyzer showed an improvement on the check result. No immediate action was required. Maintenance will be performed during the June visit. Two hours of downtime were recorded due to this event.

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.
- No canister event was recorded in May.

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

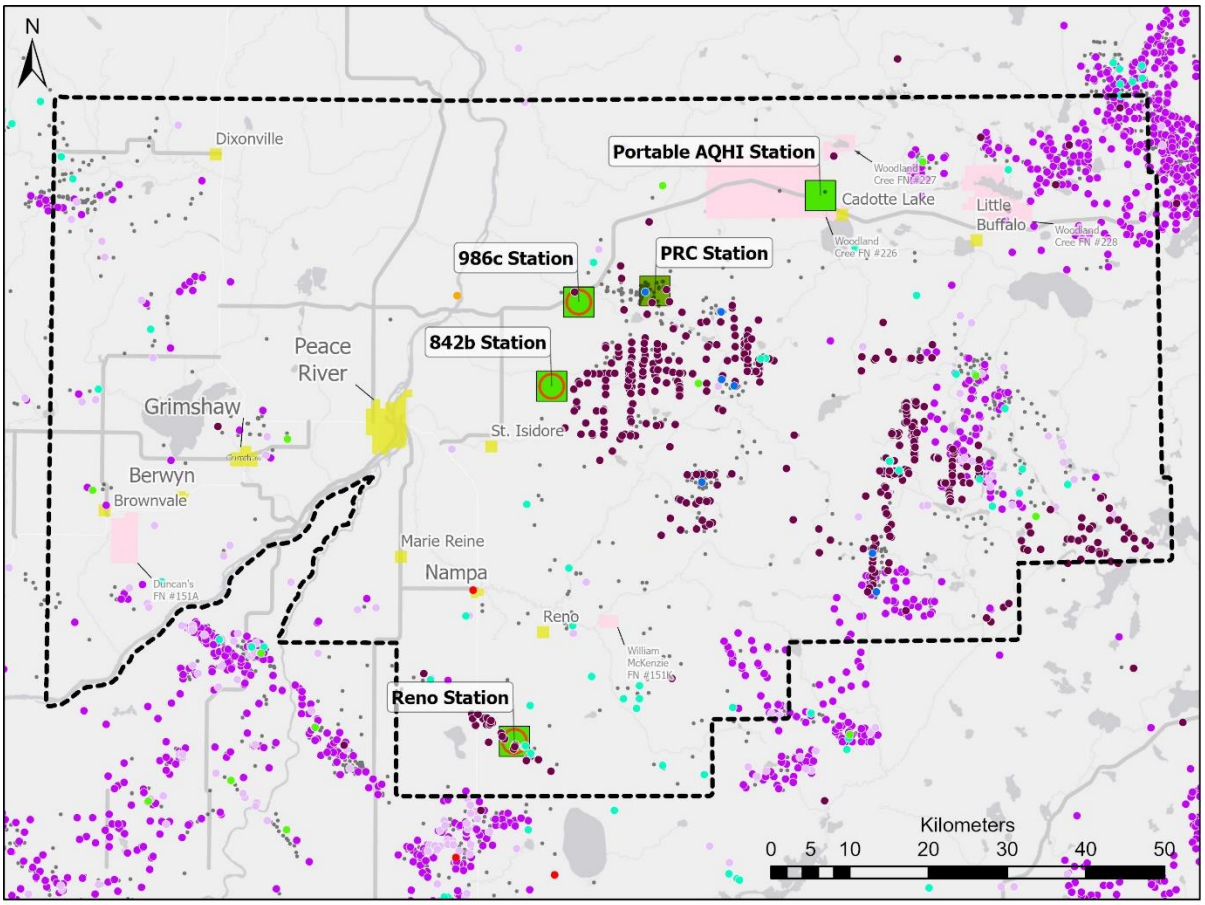
This report was reviewed by Mike Bisaga in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

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

June 16, 2021

Map of PRAMP Continuous Monitoring Network



Peace River Area Monitoring Program

pramp
PEACE RIVER AREA MONITORING PROGRAM

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Map Legend

Monitoring Methods

- Continuous (existing)
- Continuous (planned)
- Triggered Canister (existing)

Industrial Facilities

- Heavy Oil/Bitumen Well or Battery
- Conventional Oil Well or Battery
- In-Situ Oil Sands Facility
- Natural Gas Well or Battery
- Gas Plant or Processing Facility
- Compressor Station or Pipeline Facility
- Pulp and Paper
- Agricultural Storage and Transfer
- Well (Not Associated with Batteries)

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 May 13. • No operational issues were identified this month.			
TRS	**Thermo / 43iQTL**	**1191833341**	
• A successful monthly calibration was performed on May 13. • No operational issues were identified this month.			
THC/CH4/NMHC	**Thermo / 55i**	**1193585652**	
• A successful monthly calibration was performed on May 13. • No operational issues were identified this month.			
Relative Humidity (RH)	**Rotronic / HC2-S3**	**20357528**	
• The RH sensor was checked on May 13. 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 May 13. 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 May 13. 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.			
Precipitation (Precip)	**EML ARG100**	**190114**	
• Six hours of data collected in May were invalidated due to a sensor malfunction, which was caused by low ambient air temperature.			
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 May 13. 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	0.0	0	1	May 4 at hour 4	6.4	SE	0.6	May 4	99.5	94.7
TRS (ppb)	10	3	-	-	-	-	0.15	0.00	1.08	May 27 at hour 23	1.4	NW	0.35	May 27	99.5	94.5
THC (ppm)	-	-	-	-	-	-	1.88	1.81	2.03	May 12 at hour 0	7.6	SE	1.91	May 3	99.3	94.5
CH4 (ppm)	-	-	-	-	-	-	1.88	1.81	2.03	May 12 at hour 0	7.6	SE	1.91	May 3	99.3	94.5
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	May 1 at hour 0	3.8	NNW	0.00	May 1	99.3	94.5
RH (%)	-	-	-	-	-	-	56.0	11	100	May 4 at hour 8	7.2	ESE	96.4	May 8	99.6	99.6
BP (millibar)	-	-	-	-	-	-	943	930	952	May 21 at hour 7	10.5	S	950	May 21	99.6	99.6
Ext. Temp. (°C)	-	-	-	-	-	-	10.8	-1.8	24.1	May 31 at hour 16	17	SW	18.3	May 23	99.6	99.6
Stn. Temp. (°C)	-	-	-	-	-	-	22.7	20.8	24.1	May 13 at hour 10	11.4	N	23.1	May 24	99.6	99.6
Precipitation (mm)*	-	-	-	-	-	-	20.6	0.0	1.8	May 4 at hour 6	12.1	SSE	8.4	May 7	98.8	98.8
WSV (km/hr)	-	-	-	-	-	-	2.8	0.1	37.6	May 7 at hour 9	37.6	SE	23.1	May 7	99.6	99.6
WDV (sector)	-	-	-	-	-	-	144 (SE)	-	-	-	-	-	-	-	99.6	99.6

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 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 May 12. • No operational issues were identified this month.			
TRS	**Thermo 43i-TLE / Thermo 43iQTL**	**1162460023 / 1200736630**	
• A successful shut down calibration was completed on the BV-supplied Thermo 43i-TLE analyzer, s/n: 1162460023, on May 12. The PRAMP-owned Thermo 43iQTL analyzer, s/n: 1200736630, was installed and calibrated successfully afterwards. Two hours of downtime were recorded due to the analyzer swap.			
THC/CH4/NMHC	**Thermo / 55i**	**1501663728**	
• A successful monthly calibration was performed on May 12. • Following a successful shut down calibration on May 12, the sample pump was serviced. A post-repair calibration was completed after the maintenance activity was completed. • A noticeable baseline shift was identified after the monthly calibration on May 12. No issues were identified during the calibration. The shift was likely caused by different calibration equipment that were used in this calibration. Differences between calibration systems are normal and expected (<=5%). In order to minimize differences, calibration gas cylinders used across the PRAMP network were selected based on similar apparent concentrations (similar known concentrations of calibration gases based on certification results). PRAMP is investigating ways to minimize any difference due to concentration variations from calibration gases including using dedicated gas cylinders for the PRAMP network.			
Relative Humidity (RH)	**Rotronic / HC2A-S3**	**20370767**	
• The RH sensor was checked on May 12. The sensor passed the check requirements. • No operational issues were identified this month.			

Parameter	Make / Model	Serial Number	
Barometric Pressure (BP)	**MetOne / 092**	**Y23362**	
• The BP sensor was checked on May 6. 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.			
Ambient Temperature (AT)	**Rotronic / HC2A-S3**	**20370767**	
• The AT sensor was checked on May 12. The sensor passed the check requirements. • No operational issues were identified this month.			
Precipitation (Precip)	**RM Young / 52202**	**TB 15878**	
• The precipitation gauge was tested on May 12. The test results showed the equipment was not working properly. It was determined that the test result was not valid due to an operator error. The device will be retested during the site visit in June. No data are currently affected as a result of this finding.			
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 May 12. 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	0.0	0	1	May 30 at hour 8	13.7	SSW	0.1	May 30	99.5	94.6
TRS (ppb)	10	3	-	-	-	-	0.17	0.00	0.91	May 23 at hour 21	0.2	SE	0.39	May 24	99.2	94.1
THC (ppm)	-	-	-	-	-	-	1.84	1.72	2.21	May 12 at hour 5	5.5	E	1.97	May 11	99.5	94.3
CH4 (ppm)	-	-	-	-	-	-	1.84	1.72	2.21	May 12 at hour 5	5.5	E	1.97	May 11	99.5	94.3
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.01	May 23 at hour 15	13.2	W	0.00	May 23	99.5	94.3
RH (%)	-	-	-	-	-	-	53.1	9	99	May 27 at hour 2	2.6	E	90.8	May 8	99.5	99.5
BP (millibar)	-	-	-	-	-	-	942	929	951	May 21 at hour 7	11.1	SSE	949	May 21	99.5	99.5
Ext. Temp. (°C)	-	-	-	-	-	-	10.9	-2.0	24.0	May 31 at hour 15	17.6	WSW	17.8	May 23	99.5	99.5
Stn. Temp. (°C)	-	-	-	-	-	-	22.0	20.8	23.1	May 23 at hour 3	13.8	SSE	22.3	May 7	99.5	99.5
Precipitation (mm)*	-	-	-	-	-	-	14.9	0.0	1.6	May 4 at hour 6	5.5	SE	7.2	May 7	99.5	99.3
WSV (km/hr)	-	-	-	-	-	-	1.8	0.2	23.2	May 22 at hour 8	23.2	SSE	15.3	May 22	99.5	99.5
WDV (sector)	-	-	-	-	-	-	189 (S)	-	-	-	-	-	-	-	99.5	99.5

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 May 11. • No operational issues were identified this month.			
TRS	**Thermo / 43i-TLE**	**1162460022**	
• A successful monthly calibration was performed on May 11. • No operational issues were identified this month.			
THC/CH4/NMHC	**Thermo / 55i**	**1505664392**	
• A successful monthly calibration was performed on May 11. • No operational issues were identified this month. • Both N2 and H2 gas bottles were replaced on May 17. One hour of downtime was recorded due to this event.			
Relative Humidity (RH)	**RM Young / 43172VC**	**60837897**	
• The RH sensor was checked on May 11. 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 May 11. 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 May 11. 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.			
Precipitation (Precip)	**RM Young / 5202**	**TB15877**	
• The rain gauge sensor was checked on May 11. The sensor passed the check requirements. • No operational issues were identified this month.			
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 May 11. 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	0.0	0	1	May 31 at hour 15	9.2	WSW	0.4	May 31	100.0	95.3
TRS (ppb)	10	3	-	-	-	-	0.20	0.00	1.50	May 17 at hour 9	1.9	WSW	0.48	May 27	100.0	95.0
THC (ppm)	-	-	-	-	-	-	1.88	1.80	2.38	May 5 at hour 3	1.1	SSW	1.95	May 5	99.9	95.1
CH4 (ppm)	-	-	-	-	-	-	1.88	1.80	2.38	May 5 at hour 3	1.1	SSW	1.95	May 5	99.9	95.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	May 1 at hour 0	6.8	SW	0.00	May 1	99.9	95.1
RH (%)	-	-	-	-	-	-	53.8	9	100	May 4 at hour 5	3.4	S	96.2	May 8	100.0	100.0
BP (millibar)	-	-	-	-	-	-	939	926	948	May 21 at hour 6	5.2	SSE	947	May 21	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	10.7	-1.3	23.9	May 23 at hour 16	5.6	WSW	17.5	May 31	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	23.5	21.7	24.7	May 8 at hour 14	4.3	SE	24.0	May 7	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	37.7	0.0	7.6	May 4 at hour 17	8.6	WSW	11.7	May 4	100.0	99.6
WSV (km/hr)	-	-	-	-	-	-	1.1	0.3	19.7	May 6 at hour 17	19.7	ESE	13.7	May 7	100.0	100.0
WDV (sector)	-	-	-	-	-	-	155 (SSE)	-	-	-	-	-	-	-	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	
SO2	**Teledyne / T100**	**722**	
• A successful monthly calibration was performed on May 19. • No operational issues were identified this month.			
TRS	**Teledyne T100U**	**132**	
• A successful monthly calibration was performed on May 19. • The analyzer failed on May 16 between hour 12 and hour 14 and recovered spontaneously during hour 15. The cause was likely due to unstable power supply to the analyzer. Three hours of downtime were recorded. • Hourly data collected on May 17 hour 5 was discarded as less than 75% of valid 1- minute data in the hour were recorded. The issue was likely due to unstable power supply to the analyzer.			
NOx/NO/NO2	**Teledyne / T200**	**837**	
• A successful monthly calibration was performed on May 19. • No operational issues were identified this month.			
O3	**Teledyne / T400**	**824**	
• In order to confirm the analyzer zero check response, an as-found points check was performed on May 20 between hour 8 and 9 using an API 701 zero air in the calibration system. The analyzer response passed the check requirements. A successful monthly calibration was completed afterwards. Two hours of downtime were recorded due to the additional quality check. • A repeat zero-span check was completed on May 28 hour 9 and 10 to investigate negative zero drift. The analyzer showed an improvement on the check result. No immediate action was required. Maintenance will be performed during the June visit. Two hours of downtime were recorded due to this event.			

Parameter	Make / Model	Serial Number	
THC/CH4/NMHC	**Thermo / 55i**	**1191032505**	
• A successful monthly calibration was performed on May 19. • No operational issues were identified this month.			
PM 2.5	**Teledyne / T640**	**318**	
• A successful monthly calibration was performed on May 19. • No operational issues were identified this month.			
Relative Humidity (RH)	**Vaisala / HMP155**	**N2910506**	
• The sensor was checked on May 19. The sensor passed the check requirements. • No operational issues were identified this month.			
Ambient Temperature (AT)	**Vaisala / HMP155**	**N2910506**	
• The sensor was checked on May 19. 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 May 19. 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	May 6 at hour 10	14.8	ESE	0.0	May 6	93.7	88.8
TRS (ppb)	10	3	-	-	-	-	0.26	0.00	0.80	May 31 at hour 21	3.7	SW	0.46	May 31	92.9	87.9
NOx (ppb)	-	-	-	-	-	-	0.4	0	14	May 14 at hour 12	7.2	S	1.3	May 14	93.4	87.9
NO (ppb)	-	-	-	-	-	-	0.1	0	8	May 14 at hour 12	7.2	S	0.7	May 14	93.4	87.9
NO2 (ppb)	159	-	-	0	-	-	0.3	0	6	May 14 at hour 12	7.2	S	1.0	May 31	93.4	87.9
O3 (ppb)	76	-	-	0	-	-	34.0	5	58	May 22 at hour 17	11	S	48.8	May 22	93.1	88.3
THC (ppm)	-	-	-	-	-	-	1.92	1.85	2.11	May 1 at hour 21	1.6	NNW	1.94	May 21	93.4	88.6
CH4 (ppm)	-	-	-	-	-	-	1.91	1.85	1.99	May 6 at hour 5	0.6	ESE	1.93	May 21	93.4	88.6
NMHC (ppm)	-	-	-	-	-	-	0.01	0.00	0.21	May 1 at hour 21	1.6	NNW	0.03	May 1	93.4	88.6
PM2.5 (µg/m3)	80	30	-	0	0	-	3.6	0.5	37.0	May 23 at hour 22	3.9	N	7.9	May 23	94.0	93.8
RH (%)	-	-	-	-	-	-	55.8	14	99	May 27 at hour 4	1.5	E	85.2	May 8	94.6	94.6
Ext. Temp. (°C)	-	-	-	-	-	-	10.0	-4.4	24.2	May 23 at hour 16	8.3	WSW	18.3	May 31	94.6	94.6
Stn. Temp. (°C)	-	-	-	-	-	-	22.8	21.1	25.2	May 30 at hour 8	8	SW	23.5	May 8	94.6	94.6
WSV (km/hr)	-	-	-	-	-	-	1.3	0.1	19.7	May 7 at hour 9	19.7	SE	12.8	May 7	94.6	94.6
WDV (sector)	-	-	-	-	-	-	110 (ESE)	-	-	-	-	-	-	-	94.6	94.6

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 pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) 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

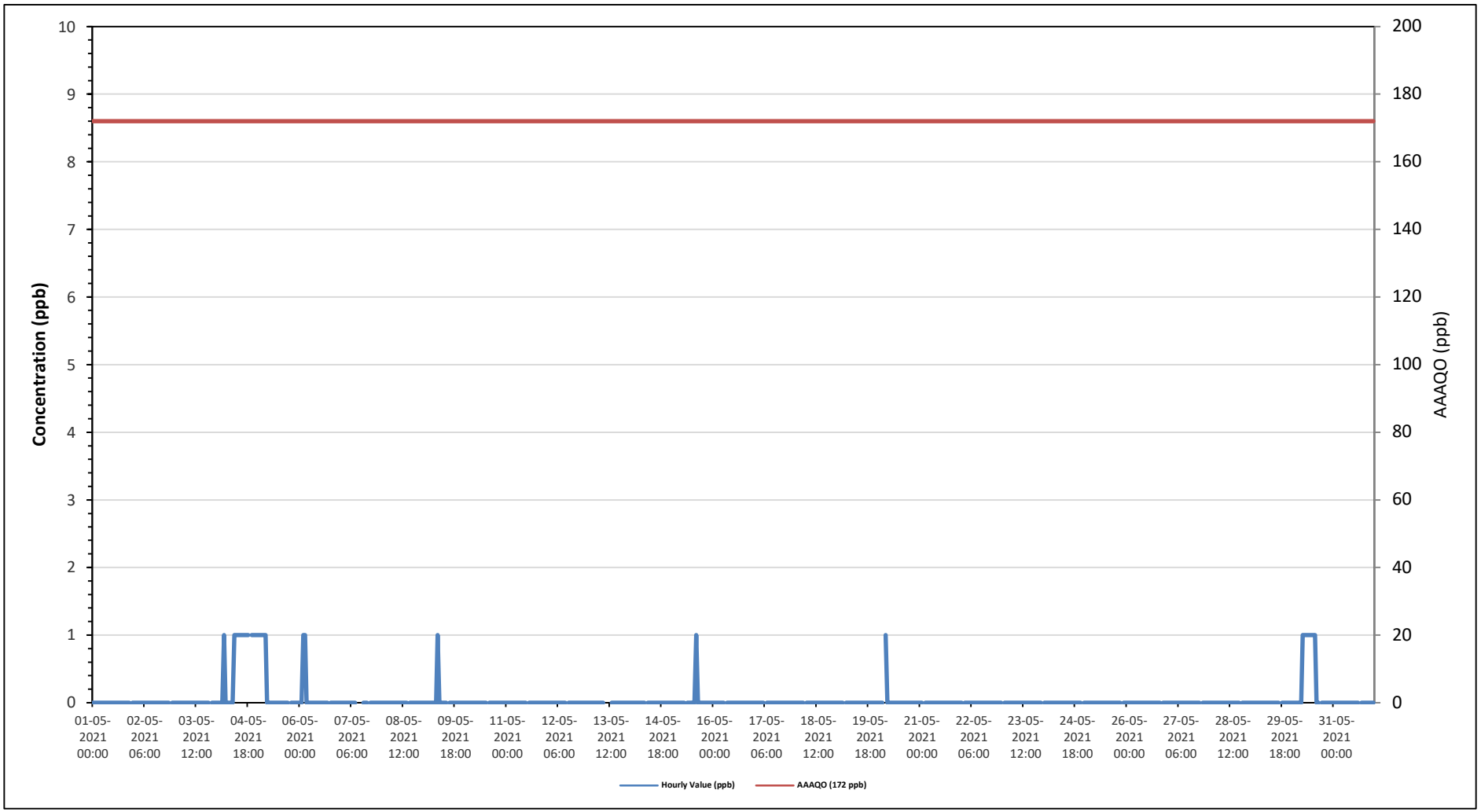
Maximum Hourly Value:	1	ppb	on May 4 at hour 4	Hours in Service:	744
Maximum Daily Value:	0.6	ppb	on May 4	Hours of Data:	705
Minimum Hourly Value:	0	ppb	on May 1 at hour 0	Hours of Missing Data:	4
Minimum Daily Value:	0.0	ppb	on May 1	Hours of Calibration:	35
Monthly Average:	0.0	ppb		Operational Uptime:	99.5

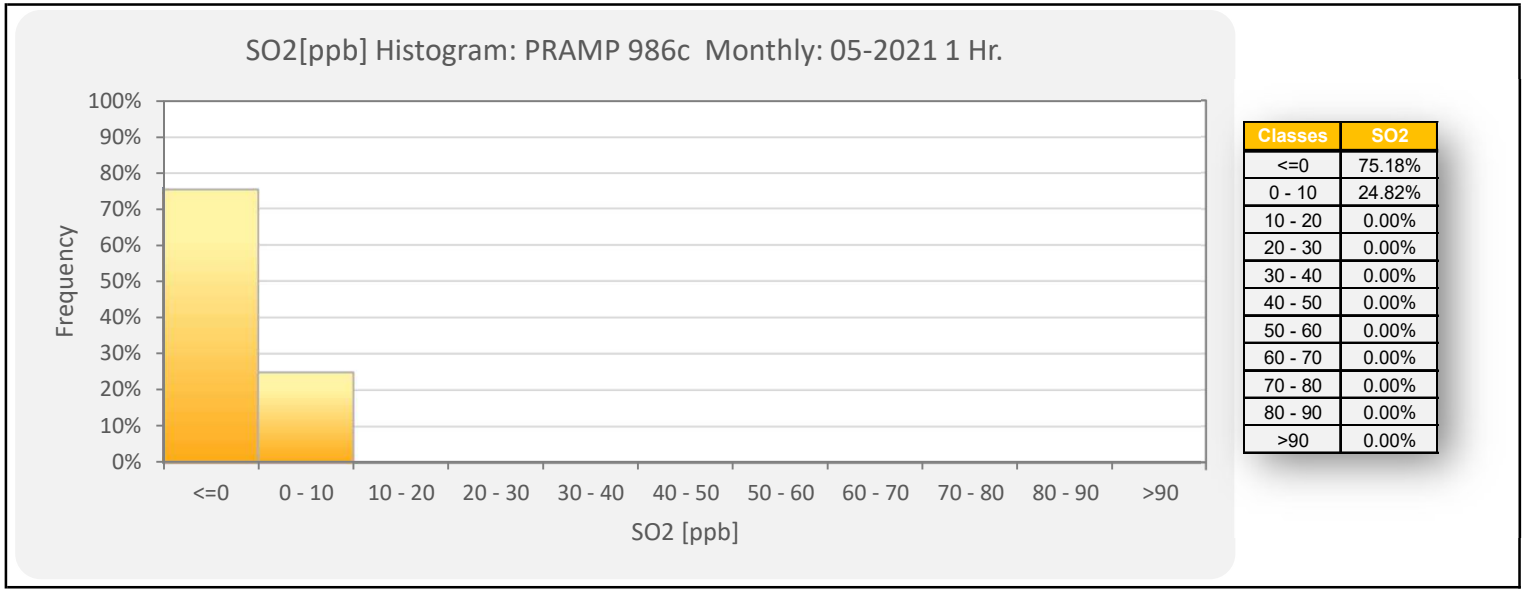
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
May 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0.0
May 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0.0
May 4	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	S	1	1	1	1	0	1	0.6
May 5	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0.2
May 6	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	1	0.1
May 7	0	0	0	0	0	0	0	0	0	P	P	P	P	0	0	0	S	0	0	0	0	0	0	0	0	0	0.0
May 8	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
May 9	0	0	0	0	0	0	0	0	1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0.0
May 10	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
May 11	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
May 12	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
May 13	0	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 14	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
May 15	0	0	0	0	0	0	0	0	S	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0.0
May 16	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
May 17	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
May 18	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
May 19	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
May 20	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
May 21	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
May 22	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
May 23	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	0.0
May 24	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
May 25	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
May 26	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
May 27	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
May 28	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
May 29	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
May 30	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	S	0	0	0	0	0	0	0	0	1	0.3
May 31	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
Diurnal Maximum	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1			
Diurnal Average	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	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 - 986c Station

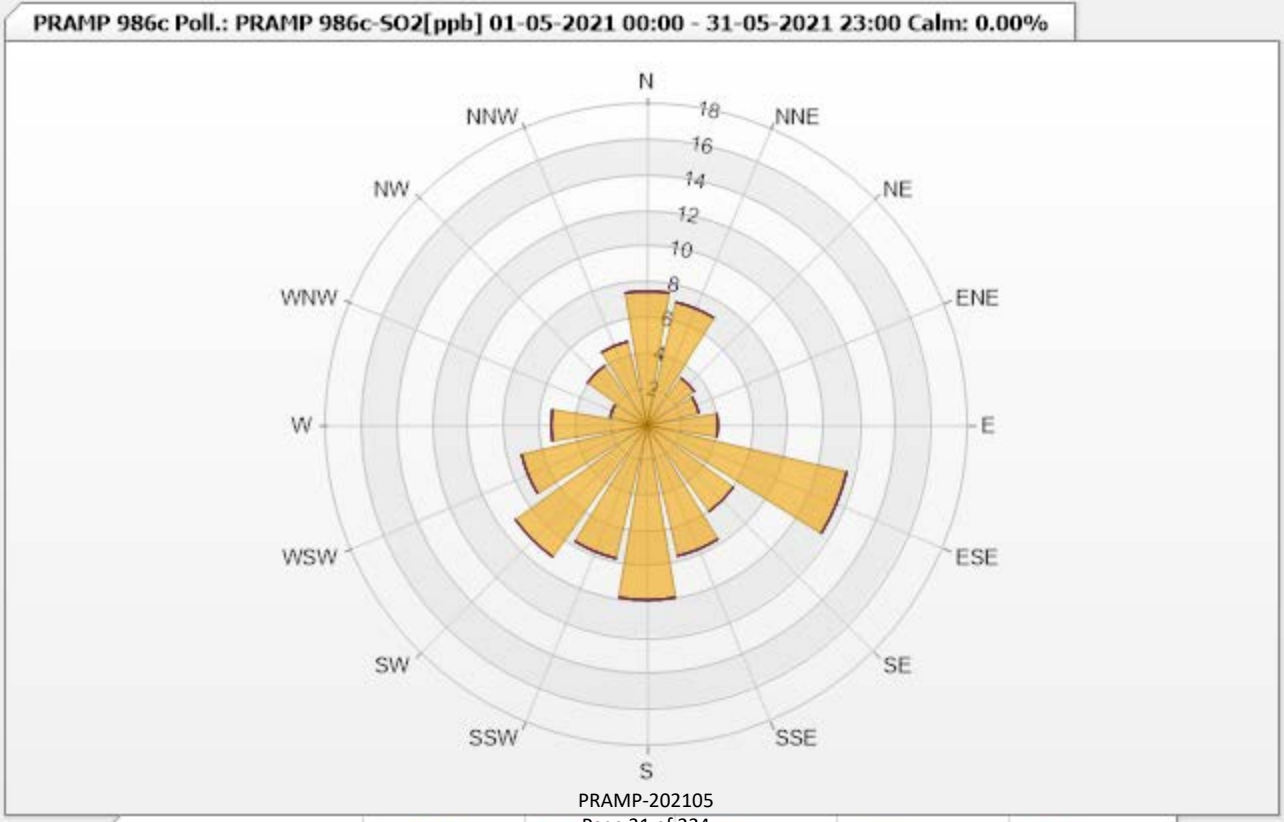




Classes	SO2
<=0	75.18%
0 - 10	24.82%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-SO2[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.76% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	7.52	0	0	0	0	7.52
NNE	7.09	0	0	0	0	7.09
NE	3.26	0	0	0	0	3.26
ENE	2.98	0	0	0	0	2.98
E	3.97	0	0	0	0	3.97
ESE	11.49	0	0	0	0	11.49
SE	5.96	0	0	0	0	5.96
SSE	7.52	0	0	0	0	7.52
S	9.79	0	0	0	0	9.79
SSW	7.66	0	0	0	0	7.66
SW	9.08	0	0	0	0	9.08
WSW	7.23	0	0	0	0	7.23
W	5.39	0	0	0	0	5.39
WNW	2.13	0	0	0	0	2.13
NW	4.11	0	0	0	0	4.11
NNW	4.82	0	0	0	0	4.82
Summary	100	0	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-SO2[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppb)
100 0-10
0 10-50
0 50-100
0 100-172
0 >172.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

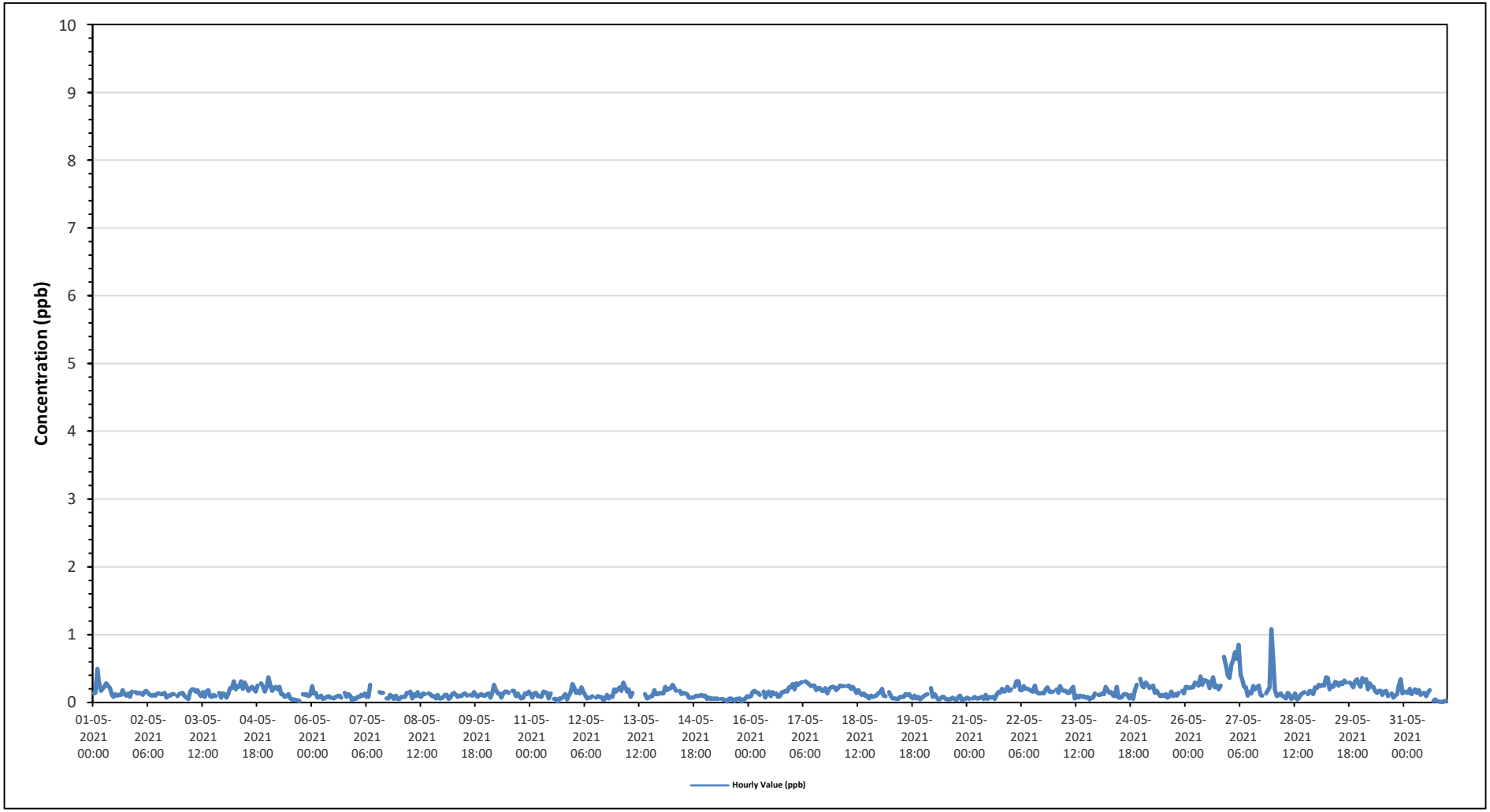
Maximum Hourly Value:	1.08	ppb	on May 27 at hour 23	Hours in Service:	744
Maximum Daily Value:	0.35	ppb	on May 27	Hours of Data:	703
Minimum Hourly Value:	0.00	ppb	on May 31 at hour 21	Hours of Missing Data:	4
Minimum Daily Value:	0.05	ppb	on May 15	Hours of Calibration:	37
Monthly Average:	0.15	ppb		Operational Uptime:	99.5

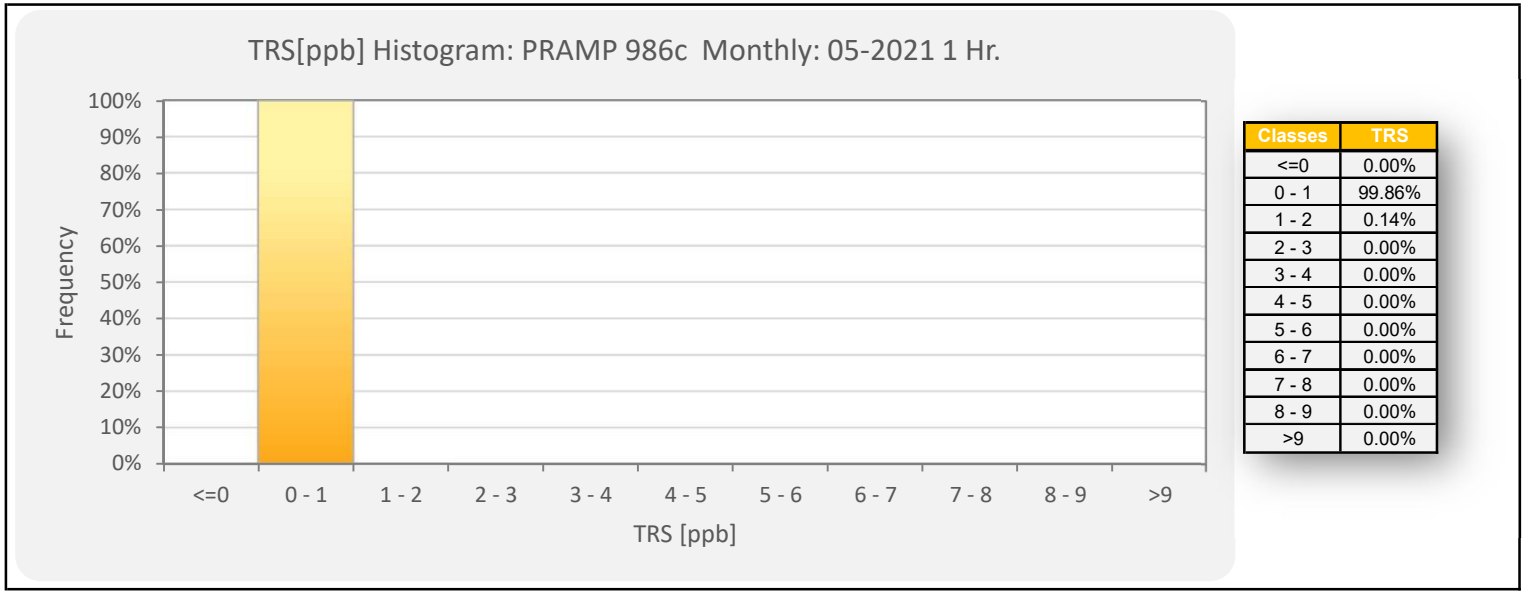
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	0.13	0.14	0.49	0.3	0.17	0.2	0.24	0.28	0.24	0.21	0.11	0.08	0.12	0.1	0.11	0.11	0.18	0.12	0.1	0.13	0.08	0.16	S	0.15	0.08	0.49	0.17
May 2	0.13	0.14	0.13	0.11	0.16	0.17	0.13	0.11	0.1	0.11	0.1	0.13	0.13	0.12	0.12	0.14	0.07	0.1	0.1	0.12	0.12	S	0.09	0.12	0.07	0.17	0.12
May 3	0.13	0.14	0.09	0.07	0.05	0.16	0.19	0.19	0.16	0.18	0.13	0.09	0.15	0.08	0.16	0.18	0.09	0.08	0.11	0.09	S	0.14	0.07	0.13	0.05	0.19	0.12
May 4	0.12	0.07	0.13	0.21	0.21	0.31	0.19	0.24	0.23	0.31	0.2	0.29	0.24	0.17	0.2	0.23	0.2	0.16	0.25	S	0.28	0.24	0.16	0.22	0.07	0.31	0.21
May 5	0.37	0.27	0.17	0.21	0.23	0.19	0.23	0.12	0.12	0.08	0.09	0.12	0.06	0.04	0.04	0.03	0.03	0.02	S	0.12	0.11	0.12	0.09	0.11	0.02	0.37	0.13
May 6	0.24	0.13	0.14	0.07	0.08	0.1	0.05	0.06	0.08	0.09	0.07	0.07	0.06	0.08	0.09	0.1	0.07	S	0.14	0.08	0.12	0.1	0.03	0.06	0.03	0.24	0.09
May 7	0.05	0.08	0.08	0.11	0.1	0.13	0.08	0.08	0.26	P	P	P	P	0.15	0.14	0.14	S	0.06	0.06	0.11	0.09	0.05	0.1	0.05	0.05	0.26	0.10
May 8	0.05	0.08	0.08	0.08	0.14	0.14	0.16	0.06	0.12	0.09	0.15	0.09	0.08	0.13	0.12	S	0.13	0.12	0.09	0.09	0.06	0.11	0.06	0.06	0.05	0.16	0.10
May 9	0.08	0.11	0.11	0.05	0.07	0.12	0.14	0.11	0.08	0.1	0.09	0.12	0.13	0.1	S	0.11	0.1	0.15	0.11	0.08	0.11	0.12	0.1	0.1	0.05	0.15	0.10
May 10	0.12	0.13	0.07	0.14	0.26	0.18	0.13	0.13	0.07	0.13	0.16	0.16	0.14	S	0.17	0.17	0.09	0.13	0.08	0.06	0.07	0.13	0.12	0.16	0.06	0.26	0.13
May 11	0.12	0.07	0.13	0.14	0.09	0.09	0.08	0.16	0.15	0.14	0.06	0.13	S	0.05	0.05	0.01	0.06	0.06	0.08	0.12	0.04	0.09	0.15	0.27	0.01	0.27	0.10
May 12	0.22	0.14	0.17	0.13	0.22	0.16	0.11	0.06	0.07	0.07	0.09	S	0.07	0.09	0.08	0.08	0.03	0.06	0.11	0.06	0.09	0.08	0.19	0.16	0.03	0.22	0.11
May 13	0.19	0.22	0.17	0.29	0.23	0.16	0.19	0.08	0.14	C	C	C	C	C	C	0.12	0.06	0.07	0.09	0.09	0.18	0.12	0.12	0.14	0.06	0.29	0.15
May 14	0.13	0.13	0.23	0.18	0.2	0.21	0.26	0.21	0.17	S	0.17	0.12	0.14	0.13	0.12	0.07	0.07	0.07	0.08	0.1	0.09	0.1	0.11	0.09	0.07	0.26	0.14
May 15	0.1	0.05	0.07	0.05	0.06	0.05	0.06	0.05	S	0.05	0.04	0.03	0.01	0.05	0.06	0.04	0.02	0.05	0.05	0.06	0.01	0.04	0.05	0.09	0.01	0.10	0.05
May 16	0.08	0.09	0.15	0.17	0.15	0.14	0.11	S	0.16	0.07	0.14	0.16	0.09	0.15	0.12	0.13	0.08	0.09	0.15	0.15	0.17	0.16	0.22	0.22	0.07	0.22	0.14
May 17	0.27	0.19	0.28	0.26	0.28	0.3	S	0.31	0.29	0.27	0.24	0.25	0.25	0.18	0.21	0.21	0.17	0.17	0.21	0.13	0.19	0.22	0.23	0.22	0.13	0.31	0.23
May 18	0.18	0.21	0.25	0.24	0.24	S	0.24	0.25	0.2	0.23	0.19	0.14	0.18	0.14	0.11	0.13	0.09	0.1	0.06	0.1	0.08	0.09	0.1	0.13	0.06	0.25	0.16
May 19	0.15	0.2	0.1	0.09	S	0.15	0.09	0.06	0.06	0.05	0.05	0.08	0.08	0.08	0.12	0.11	0.12	0.08	0.06	0.1	0.06	0.08	0.04	0.07	0.04	0.20	0.09
May 20	0.09	0.11	0.12	S	0.21	0.08	0.12	0.08	0.04	0.05	0.08	0.08	0.05	0.04	0.04	0.05	0.07	0.05	0.03	0.08	0.1	0.03	0.05	0.05	0.03	0.21	0.07
May 21	0.07	0.05	S	0.06	0.08	0.06	0.06	0.07	0.08	0.05	0.11	0.05	0.08	0.07	0.08	0.05	0.11	0.15	0.14	0.2	0.16	0.17	0.23	0.17	0.05	0.23	0.10
May 22	0.19	S	0.23	0.31	0.31	0.18	0.18	0.24	0.2	0.2	0.19	0.17	0.16	0.25	0.16	0.13	0.13	0.14	0.13	0.19	0.22	0.16	0.15	0.16	0.13	0.31	0.19
May 23	S	0.19	0.14	0.24	0.18	0.17	0.17	0.14	0.14	0.19	0.23	0.06	0.1	0.07	0.1	0.08	0.09	0.07	0.08	0.04	0.07	0.07	0.13	S	0.04	0.24	0.13
May 24	0.11	0.11	0.13	0.12	0.23	0.18	0.14	0.15	0.1	0.09	0.23	0.07	0.07	0.08	0.12	0.12	0.11	0.06	0.11	0.05	0.18	0.26	S	0.35	0.05	0.35	0.14
May 25	0.24	0.22	0.29	0.26	0.21	0.23	0.25	0.14	0.17	0.12	0.09	0.11	0.09	0.12	0.07	0.09	0.16	0.09	0.12	0.1	0.14	S	0.17	0.13	0.07	0.29	0.16
May 26	0.23	0.22	0.21	0.22	0.22	0.29	0.27	0.25	0.38	0.26	0.33	0.32	0.31	0.21	0.29	0.37	0.22	0.25	0.19	0.25	S	0.67	0.54	0.4	0.19	0.67	0.30
May 27	0.36	0.55	0.63	0.74	0.64	0.85	0.41	0.33	0.23	0.22	0.1	0.15	0.13	0.24	0.19	0.22	0.25	0.11	0.1	S	0.13	0.17	0.22	**1.08**	0.10	**1.08**	**0.35**
May 28	0.59	0.18	0.09	0.11	0.13	0.1	0.08	0.06	0.14	0.11	0.05	0.07	0.13	0.04	0.06	0.11	0.13	0.15	S	0.12	0.17	0.15	0.12	0.22	0.04	0.59	0.14
May 29	0.21	0.26	0.24	0.26	0.25	0.37	0.36	0.19	0.25	0.23	0.3	0.29	0.25	0.29	0.27	0.32	0.29	S	0.29	0.27	0.22	0.31	0.34	0.27	0.19	0.37	0.28
May 30	0.23	0.36	0.3	0.34	0.19	0.28	0.23	0.23	0.17	0.14	0.17	0.17	0.11	0.16	0.17	0.09	S	0.13	0.07	0.1	0.12	0.24	0.34	0.13	0.07	0.36	0.19
May 31	0.16	0.15	0.14	0.2	0.12	0.16	0.19	0.14	0.18	0.11	0.13	0.14	0.09	0.15	0.18	S	0.02	0.04	0.02	0.01	0.01	0	0.02	0.02	**0.00**	0.20	0.10
Diurnal Maximum	0.59	0.55	0.63	0.74	0.64	0.85	0.41	0.33	0.38	0.31	0.33	0.32	0.31	0.29	0.29	0.37	0.29	0.25	0.29	0.27	0.28	0.67	0.54	1.08			
Diurnal Average	0.18	0.17	0.19	0.19	0.19	0.20	0.17	0.15	0.16	0.14	0.14	0.13	0.13	0.12	0.13	0.13	0.11	0.10	0.11	0.11	0.12	0.15	0.15	0.18			

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

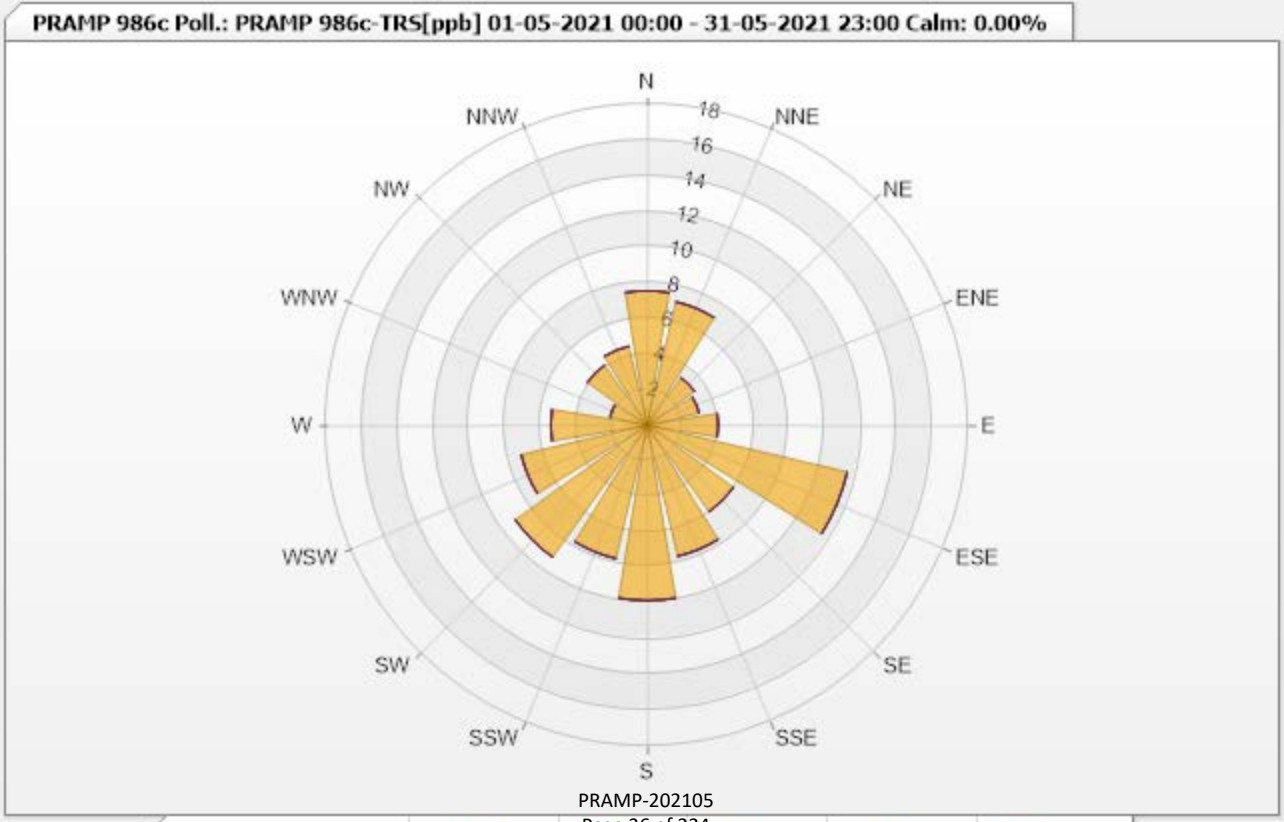




Classes	TRS
<=0	0.00%
0 - 1	99.86%
1 - 2	0.14%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-TRS[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppb]

Direction	0-2	2-3	3-10	10-50	>50.0	Total
N	7.54	0	0	0	0	7.54
NNE	7.11	0	0	0	0	7.11
NE	3.27	0	0	0	0	3.27
ENE	2.99	0	0	0	0	2.99
E	3.98	0	0	0	0	3.98
ESE	11.52	0	0	0	0	11.52
SE	5.97	0	0	0	0	5.97
SSE	7.54	0	0	0	0	7.54
S	9.82	0	0	0	0	9.82
SSW	7.68	0	0	0	0	7.68
SW	9.1	0	0	0	0	9.1
WSW	7.25	0	0	0	0	7.25
W	5.41	0	0	0	0	5.41
WNW	2.13	0	0	0	0	2.13
NW	4.13	0	0	0	0	4.13
NNW	4.55	0	0	0	0	4.55
Summary	100	0	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-TRS[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppb)
100 0-2
0 2-3
0 3-10
0 10-50
0 >50.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

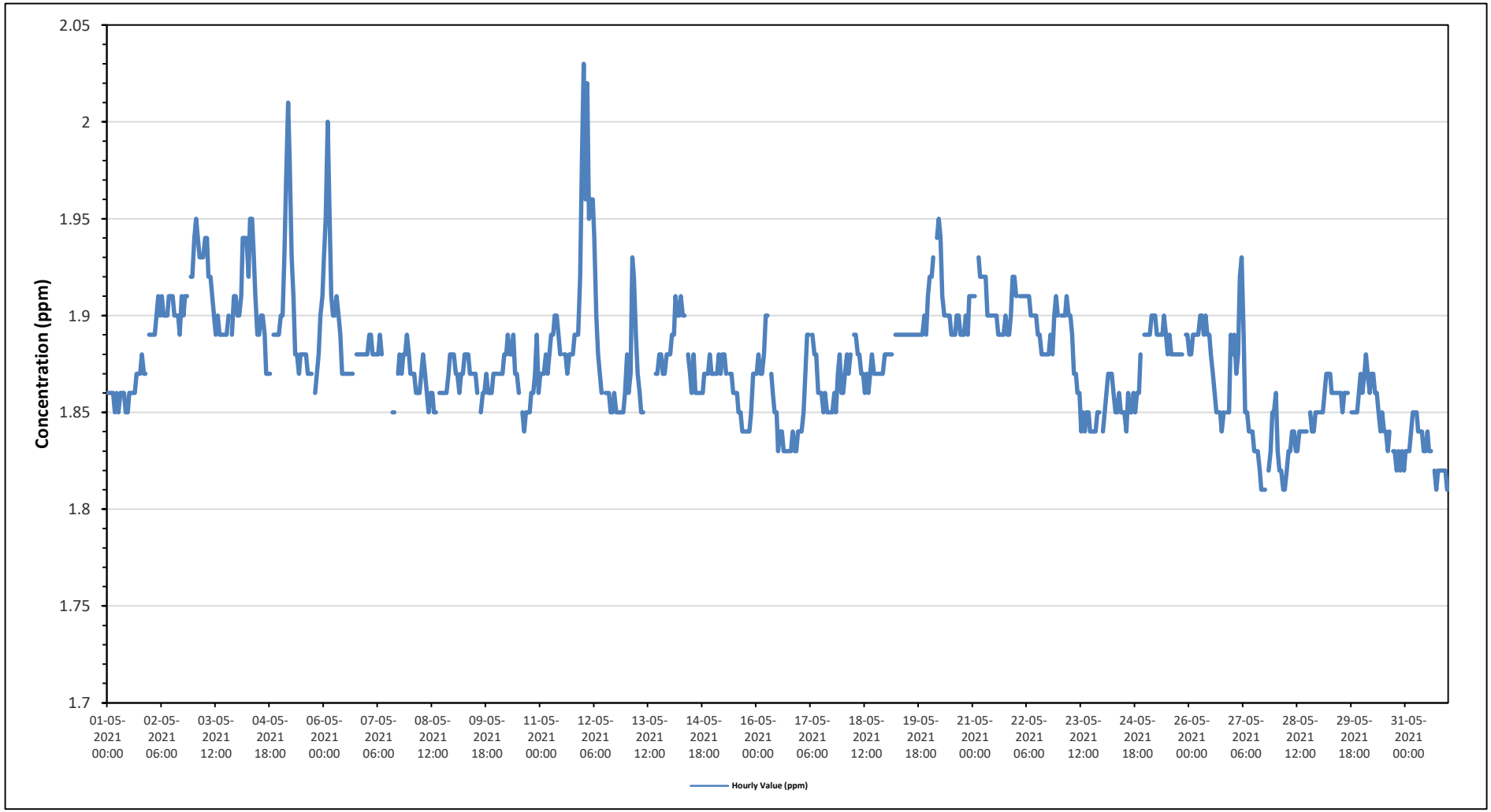
Maximum Hourly Value:	2.03	ppm	on May 12 at hour 0	Hours in Service:	744
Maximum Daily Value:	1.91	ppm	on May 3	Hours of Data:	703
Minimum Hourly Value:	1.81	ppm	on May 27 at hour 16	Hours of Missing Data:	5
Minimum Daily Value:	1.83	ppm	on May 31	Hours of Calibration:	36
Monthly Average:	1.88	ppm		Operational Uptime:	99.3

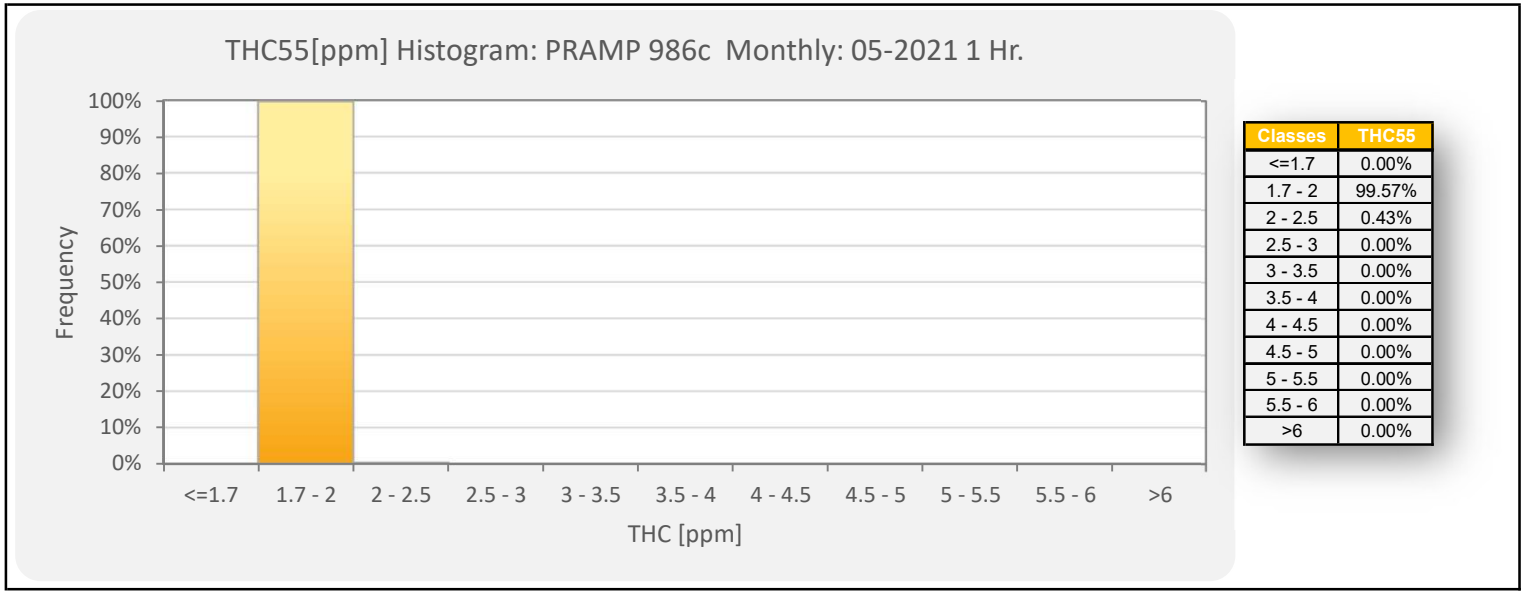
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	1.86	1.86	1.86	1.86	1.85	1.86	1.85	1.86	1.86	1.86	1.85	1.85	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.88	1.87	1.87	S	1.89	1.85	1.89	1.86
May 2	1.89	1.89	1.89	1.90	1.91	1.90	1.91	1.90	1.90	1.90	1.91	1.91	1.91	1.90	1.90	1.90	1.89	1.91	1.90	1.91	1.91	S	1.92	1.92	1.89	1.92	1.90
May 3	1.94	1.95	1.94	1.93	1.93	1.93	1.94	1.94	1.92	1.92	1.91	1.90	1.89	1.90	1.89	1.89	1.89	1.89	1.89	1.90	S	1.89	1.91	1.91	1.89	1.95	**1.91**
May 4	1.90	1.90	1.91	1.94	1.94	1.94	1.92	1.95	1.95	1.93	1.91	1.89	1.89	1.90	1.90	1.89	1.87	1.87	1.87	S	1.89	1.89	1.89	1.89	1.87	1.95	1.91
May 5	1.90	1.90	1.93	1.97	2.01	1.98	1.93	1.91	1.88	1.88	1.87	1.88	1.88	1.88	1.88	1.87	1.87	1.87	S	1.86	1.87	1.88	1.90	1.91	1.86	2.01	1.90
May 6	1.93	1.95	2.00	1.96	1.91	1.90	1.90	1.91	1.90	1.89	1.87	1.87	1.87	1.87	1.87	1.87	1.87	S	1.88	1.88	1.88	1.88	1.88	1.88	1.87	2.00	1.90
May 7	1.88	1.89	1.89	1.88	1.88	1.88	1.88	1.89	1.88	P	P	P	P	X	1.85	1.85	S	1.87	1.88	1.87	1.88	1.88	1.89	1.88	1.85	1.89	1.88
May 8	1.87	1.87	1.87	1.86	1.86	1.86	1.87	1.88	1.87	1.86	1.85	1.86	1.86	1.85	1.85	S	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.88	1.85	1.88	1.86
May 9	1.88	1.87	1.87	1.86	1.87	1.87	1.88	1.88	1.88	1.87	1.87	1.87	1.87	1.86	S	1.85	1.86	1.86	1.87	1.86	1.86	1.86	1.87	1.87	1.85	1.88	1.87
May 10	1.87	1.87	1.87	1.87	1.88	1.88	1.89	1.88	1.88	1.89	1.87	1.87	1.86	S	1.85	1.84	1.85	1.85	1.85	1.86	1.86	1.87	1.89	1.86	1.84	1.89	1.87
May 11	1.87	1.87	1.87	1.88	1.87	1.88	1.89	1.89	1.90	1.90	1.89	1.88	S	1.88	1.88	1.87	1.88	1.88	1.88	1.89	1.89	1.89	1.92	1.98	1.87	1.98	1.89
May 12	**2.03**	1.96	2.02	1.95	1.96	1.96	1.94	1.90	1.88	1.87	1.86	S	1.86	1.86	1.86	1.85	1.85	1.86	1.85	1.85	1.85	1.85	1.85	1.86	1.85	**2.03**	1.89
May 13	1.88	1.86	1.87	1.93	1.92	1.89	1.87	1.86	1.85	1.85	S	1.86	C	C	C	C	1.87	1.87	1.88	1.88	1.87	1.87	1.88	1.88	1.85	1.93	1.88
May 14	1.88	1.89	1.89	1.91	1.90	1.90	1.91	1.90	1.90	S	1.88	1.87	1.86	1.88	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.88	1.87	1.86	1.91	1.88
May 15	1.87	1.87	1.87	1.88	1.87	1.88	1.88	1.87	S	1.87	1.87	1.86	1.86	1.86	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.85	1.87	1.87	1.84	1.88	1.86
May 16	1.87	1.88	1.87	1.87	1.88	1.90	1.90	S	1.87	1.86	1.85	1.85	1.83	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.84	1.83	1.83	1.84	1.83	1.90	1.85
May 17	1.84	1.84	1.85	1.87	1.89	1.89	S	1.89	1.88	1.88	1.86	1.86	1.86	1.85	1.86	1.85	1.85	1.85	1.85	1.86	1.85	1.87	1.88	1.86	1.84	1.89	1.86
May 18	1.86	1.87	1.88	1.87	1.88	S	1.89	1.89	1.88	1.88	1.87	1.87	1.86	1.87	1.86	1.87	1.88	1.87	1.87	1.87	1.87	1.87	1.87	1.88	1.86	1.89	1.87
May 19	1.88	1.88	1.88	1.88	S	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.89	1.91	1.88	1.91	1.89
May 20	1.92	1.92	1.93	S	1.94	1.95	1.94	1.91	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.90	1.90	1.89	1.89	1.89	1.90	1.89	1.91	1.91	1.89	1.95	1.91
May 21	1.91	1.91	S	1.93	1.92	1.92	1.92	1.92	1.90	1.90	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.90	1.89	1.89	1.90	1.92	1.92	1.89	1.93	1.90
May 22	1.91	S	1.91	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.89	1.88	1.90	1.91	1.90	1.88	1.91	1.90
May 23	S	1.90	1.90	1.90	1.91	1.90	1.90	1.89	1.87	1.87	1.86	1.86	1.84	1.85	1.84	1.85	1.85	1.84	1.84	1.84	1.84	1.85	1.85	S	1.84	1.91	1.87
May 24	1.84	1.85	1.86	1.87	1.87	1.87	1.86	1.85	1.85	1.86	1.85	1.85	1.85	1.84	1.86	1.85	1.85	1.86	1.85	1.86	1.86	1.88	S	1.89	1.84	1.89	1.86
May 25	1.89	1.89	1.89	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.90	1.89	1.88	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.88	S	1.89	1.89	1.88	1.90	1.89
May 26	1.88	1.88	1.89	1.89	1.89	1.89	1.90	1.90	1.89	1.90	1.89	1.89	1.88	1.87	1.86	1.85	1.85	1.85	1.84	1.85	S	1.85	1.85	1.89	1.84	1.90	1.88
May 27	1.88	1.89	1.87	1.88	1.92	1.93	1.89	1.85	1.85	1.84	1.84	1.84	1.83	1.83	1.83	1.82	1.81	1.81	1.81	S	1.82	1.83	1.85	1.85	**1.81**	1.93	1.85
May 28	1.86	1.83	1.82	1.82	1.81	1.81	1.82	1.83	1.83	1.84	1.84	1.83	1.83	1.84	1.84	1.84	1.84	1.84	S	1.85	1.84	1.84	1.85	1.85	**1.81**	1.86	1.83
May 29	1.85	1.85	1.85	1.86	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.85	1.86	1.86	1.86	S	1.85	1.85	1.85	1.85	1.86	1.87	1.85	1.87	1.86
May 30	1.86	1.87	1.88	1.87	1.86	1.87	1.87	1.86	1.86	1.85	1.84	1.85	1.84	1.84	1.83	1.84	S	1.83	1.83	1.82	1.83	1.82	1.83	1.82	1.82	1.88	1.85
May 31	1.83	1.83	1.83	1.84	1.85	1.85	1.85	1.84	1.84	1.84	1.83	1.83	1.84	1.83	1.83	S	1.82	1.81	1.82	1.82	1.82	1.82	1.82	1.81	**1.81**	1.85	1.83
Diurnal Maximum	2.03	1.96	2.02	1.97	2.01	1.98	1.94	1.95	1.95	1.93	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.91	1.90	1.91	1.91	1.90	1.92	1.98			
Diurnal Average	1.88	1.88	1.89	1.89	1.90	1.90	1.89	1.89	1.88	1.88	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.87	1.86	1.87	1.88	1.88			

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

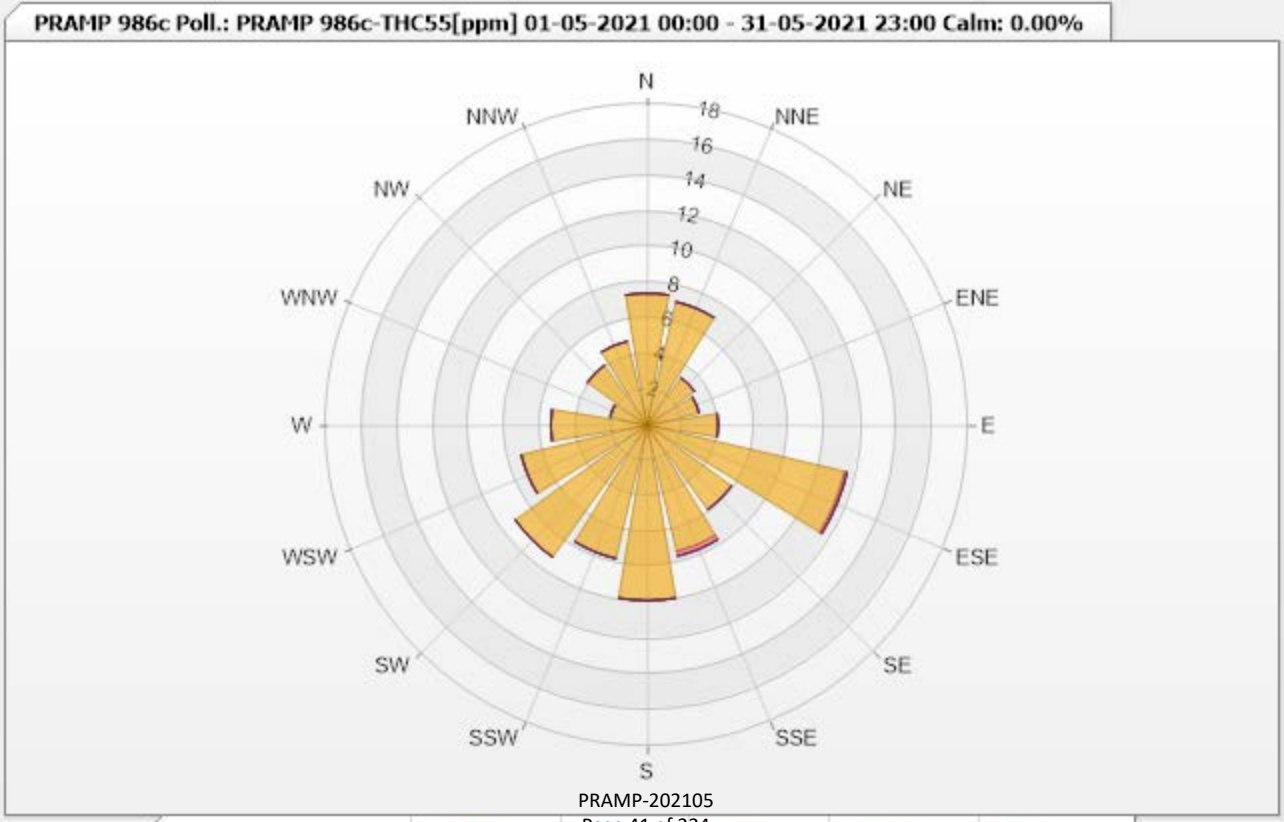




Classes	THC55
<=1.7	0.00%
1.7 - 2	99.57%
2 - 2.5	0.43%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-THC55[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppm]

Direction	0-2	2-3	3-10	10-40	>40.0	Total
N	7.4	0	0	0	0	7.4
NNE	7.11	0	0	0	0	7.11
NE	3.27	0	0	0	0	3.27
ENE	2.99	0	0	0	0	2.99
E	3.98	0	0	0	0	3.98
ESE	11.38	0.14	0	0	0	11.52
SE	5.83	0	0	0	0	5.83
SSE	7.25	0.28	0	0	0	7.53
S	9.82	0	0	0	0	9.82
SSW	7.68	0	0	0	0	7.68
SW	9.1	0	0	0	0	9.1
WSW	7.25	0	0	0	0	7.25
W	5.41	0	0	0	0	5.41
WNW	2.13	0	0	0	0	2.13
NW	4.13	0	0	0	0	4.13
NNW	4.84	0	0	0	0	4.84
Summary	100	0.42	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-THC55[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppm)
100 0-2
0 2-3
0 3-10
0 10-40
0 >40.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

METHANE (CH4) in ppm

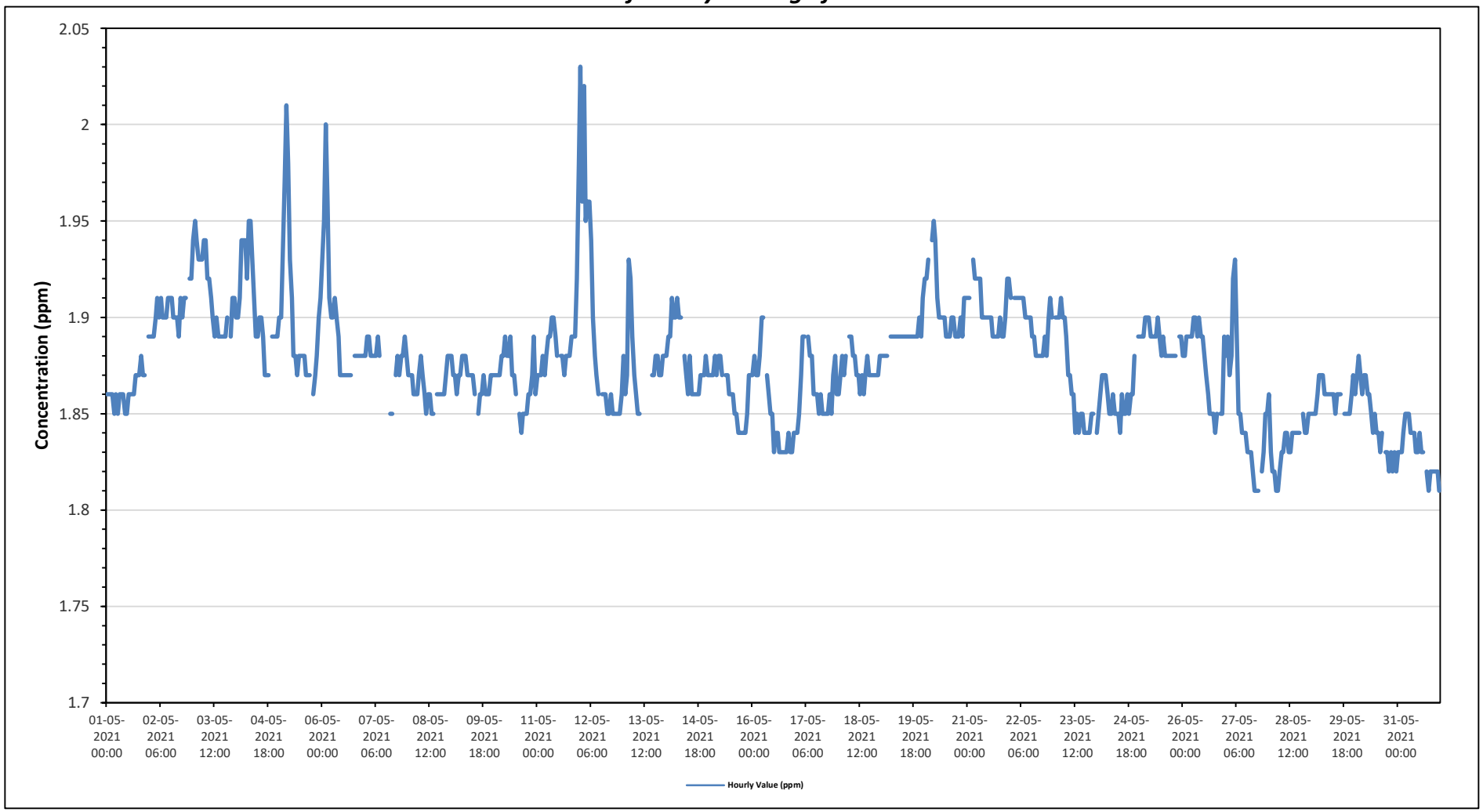
Maximum Hourly Value:	2.03	ppm	on May 12 at hour 0	Hours in Service:	744
Maximum Daily Value:	1.91	ppm	on May 3	Hours of Data:	703
Minimum Hourly Value:	1.81	ppm	on May 27 at hour 16	Hours of Missing Data:	5
Minimum Daily Value:	1.83	ppm	on May 31	Hours of Calibration:	36
Monthly Average:	1.88	ppm		Operational Uptime:	99.3

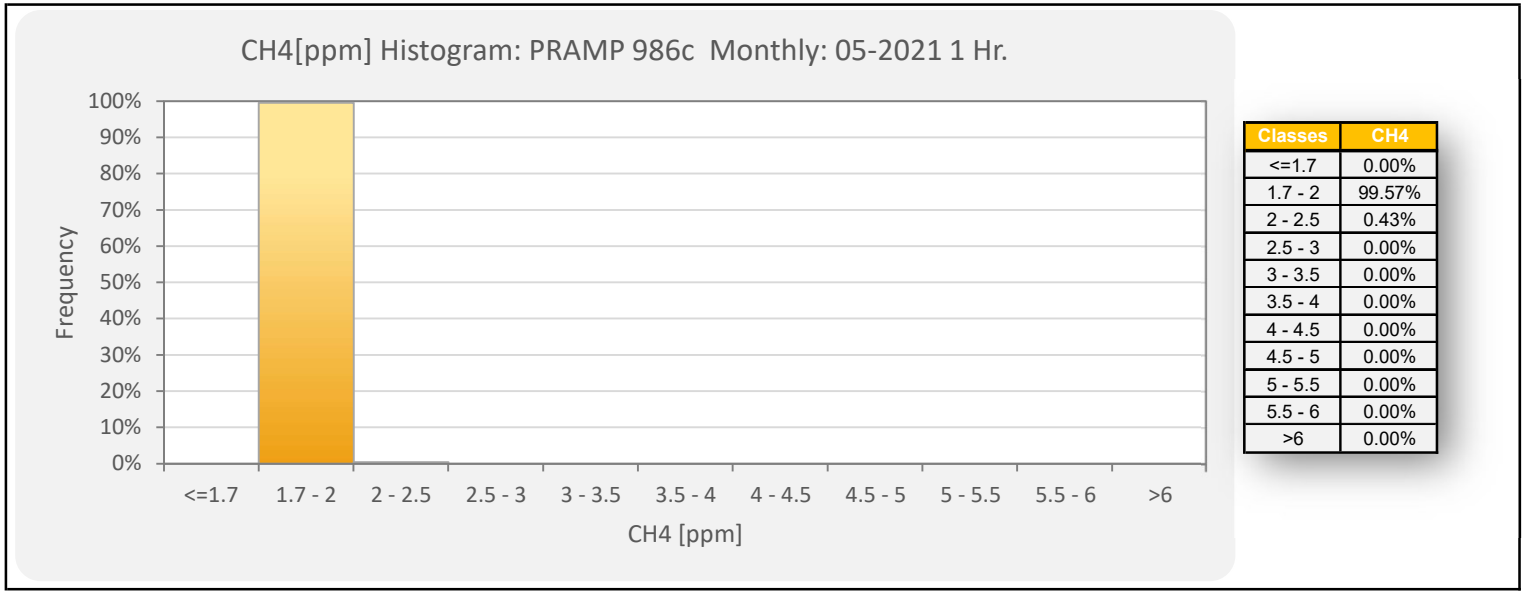
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	1.86	1.86	1.86	1.86	1.85	1.86	1.85	1.86	1.86	1.86	1.85	1.85	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.88	1.87	1.87	S	1.89	1.85	1.89	1.86
May 2	1.89	1.89	1.89	1.90	1.91	1.90	1.91	1.90	1.90	1.90	1.91	1.91	1.91	1.90	1.90	1.90	1.89	1.91	1.90	1.91	1.91	S	1.92	1.92	1.89	1.92	1.90
May 3	1.94	1.95	1.94	1.93	1.93	1.93	1.94	1.94	1.92	1.92	1.91	1.90	1.89	1.90	1.89	1.89	1.89	1.89	1.89	1.90	S	1.89	1.91	1.91	1.89	1.95	**1.91**
May 4	1.90	1.90	1.91	1.94	1.94	1.94	1.92	1.95	1.95	1.93	1.91	1.89	1.89	1.90	1.90	1.89	1.87	1.87	1.87	S	1.89	1.89	1.89	1.89	1.87	1.95	1.91
May 5	1.90	1.90	1.93	1.97	2.01	1.98	1.93	1.91	1.88	1.88	1.87	1.88	1.88	1.88	1.88	1.87	1.87	1.87	S	1.86	1.87	1.88	1.90	1.91	1.86	2.01	1.90
May 6	1.93	1.95	2.00	1.96	1.91	1.90	1.90	1.91	1.90	1.89	1.87	1.87	1.87	1.87	1.87	1.87	1.87	S	1.88	1.88	1.88	1.88	1.88	1.88	1.87	2.00	1.90
May 7	1.88	1.89	1.89	1.88	1.88	1.88	1.88	1.89	1.88	P	P	P	P	X	1.85	1.85	S	1.87	1.88	1.87	1.88	1.88	1.89	1.88	1.85	1.89	1.88
May 8	1.87	1.87	1.87	1.86	1.86	1.86	1.87	1.88	1.87	1.86	1.85	1.86	1.86	1.85	1.85	S	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.88	1.85	1.88	1.86
May 9	1.88	1.87	1.87	1.86	1.87	1.87	1.88	1.88	1.88	1.87	1.87	1.87	1.87	1.86	S	1.85	1.86	1.86	1.87	1.86	1.86	1.86	1.87	1.87	1.85	1.88	1.87
May 10	1.87	1.87	1.87	1.87	1.88	1.88	1.89	1.88	1.88	1.89	1.87	1.87	1.86	S	1.85	1.84	1.85	1.85	1.85	1.86	1.86	1.87	1.89	1.86	1.84	1.89	1.87
May 11	1.87	1.87	1.87	1.88	1.87	1.88	1.89	1.89	1.90	1.90	1.89	1.88	S	1.88	1.88	1.87	1.88	1.88	1.88	1.89	1.89	1.89	1.92	1.98	1.87	1.98	1.89
May 12	**2.03**	1.96	2.02	1.95	1.96	1.96	1.94	1.90	1.88	1.87	1.86	S	1.86	1.86	1.86	1.85	1.85	1.86	1.85	1.85	1.85	1.85	1.85	1.86	1.85	**2.03**	1.89
May 13	1.88	1.86	1.87	1.93	1.92	1.89	1.87	1.86	1.85	1.85	S	1.86	C	C	C	C	1.87	1.87	1.88	1.88	1.87	1.87	1.88	1.88	1.85	1.93	1.88
May 14	1.88	1.89	1.89	1.91	1.90	1.90	1.91	1.90	1.90	S	1.88	1.87	1.86	1.88	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.88	1.87	1.86	1.91	1.88
May 15	1.87	1.87	1.87	1.88	1.87	1.88	1.88	1.87	S	1.87	1.87	1.86	1.86	1.86	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.85	1.87	1.87	1.84	1.88	1.86
May 16	1.87	1.88	1.87	1.87	1.88	1.90	1.90	S	1.87	1.86	1.85	1.85	1.83	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.84	1.83	1.83	1.84	1.83	1.90	1.85
May 17	1.84	1.84	1.85	1.87	1.89	1.89	S	1.89	1.88	1.88	1.86	1.86	1.86	1.85	1.86	1.85	1.85	1.85	1.85	1.86	1.85	1.87	1.88	1.86	1.84	1.89	1.86
May 18	1.86	1.87	1.88	1.87	1.88	S	1.89	1.89	1.88	1.88	1.87	1.87	1.86	1.87	1.86	1.87	1.88	1.87	1.87	1.87	1.87	1.87	1.87	1.88	1.86	1.89	1.87
May 19	1.88	1.88	1.88	1.88	S	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.89	1.91	1.88	1.91	1.89
May 20	1.92	1.92	1.93	S	1.94	1.95	1.94	1.91	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.90	1.90	1.89	1.89	1.89	1.90	1.89	1.91	1.91	1.89	1.95	1.91
May 21	1.91	1.91	S	1.93	1.92	1.92	1.92	1.92	1.90	1.90	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.90	1.89	1.89	1.90	1.92	1.92	1.89	1.93	1.90
May 22	1.91	S	1.91	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.89	1.88	1.90	1.91	1.90	1.88	1.91	1.90
May 23	S	1.90	1.90	1.90	1.91	1.90	1.90	1.89	1.87	1.87	1.86	1.86	1.84	1.85	1.84	1.85	1.85	1.84	1.84	1.84	1.84	1.85	1.85	S	1.84	1.91	1.87
May 24	1.84	1.85	1.86	1.87	1.87	1.87	1.86	1.85	1.85	1.86	1.85	1.85	1.85	1.84	1.86	1.85	1.85	1.86	1.85	1.86	1.86	1.88	S	1.89	1.84	1.89	1.86
May 25	1.89	1.89	1.89	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.90	1.89	1.88	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.88	S	1.89	1.89	1.88	1.90	1.89
May 26	1.88	1.88	1.89	1.89	1.89	1.89	1.90	1.90	1.89	1.90	1.89	1.89	1.88	1.87	1.86	1.85	1.85	1.85	1.84	1.85	S	1.85	1.85	1.89	1.84	1.90	1.88
May 27	1.88	1.89	1.87	1.88	1.92	1.93	1.89	1.85	1.85	1.84	1.84	1.84	1.83	1.83	1.83	1.82	1.81	1.81	1.81	S	1.82	1.83	1.85	1.85	**1.81**	1.93	1.85
May 28	1.86	1.83	1.82	1.82	1.81	1.81	1.82	1.83	1.83	1.84	1.84	1.83	1.83	1.84	1.84	1.84	1.84	1.84	S	1.85	1.84	1.84	1.85	1.85	**1.81**	1.86	1.83
May 29	1.85	1.85	1.85	1.86	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.85	1.86	1.86	1.86	S	1.85	1.85	1.85	1.85	1.86	1.87	1.85	1.87	1.86
May 30	1.86	1.87	1.88	1.87	1.86	1.87	1.87	1.86	1.86	1.85	1.84	1.85	1.84	1.84	1.83	1.84	S	1.83	1.83	1.82	1.83	1.82	1.83	1.82	1.82	1.88	1.85
May 31	1.83	1.83	1.83	1.84	1.85	1.85	1.85	1.84	1.84	1.84	1.83	1.83	1.84	1.83	1.83	S	1.82	1.81	1.82	1.82	1.82	1.82	1.82	1.81	**1.81**	1.85	1.83
Diurnal Maximum	2.03	1.96	2.02	1.97	2.01	1.98	1.94	1.95	1.95	1.93	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.91	1.90	1.91	1.91	1.90	1.92	1.98			
Diurnal Average	1.88	1.88	1.89	1.89	1.90	1.90	1.89	1.89	1.88	1.88	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.87	1.86	1.87	1.88	1.88			

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 - 986c Station

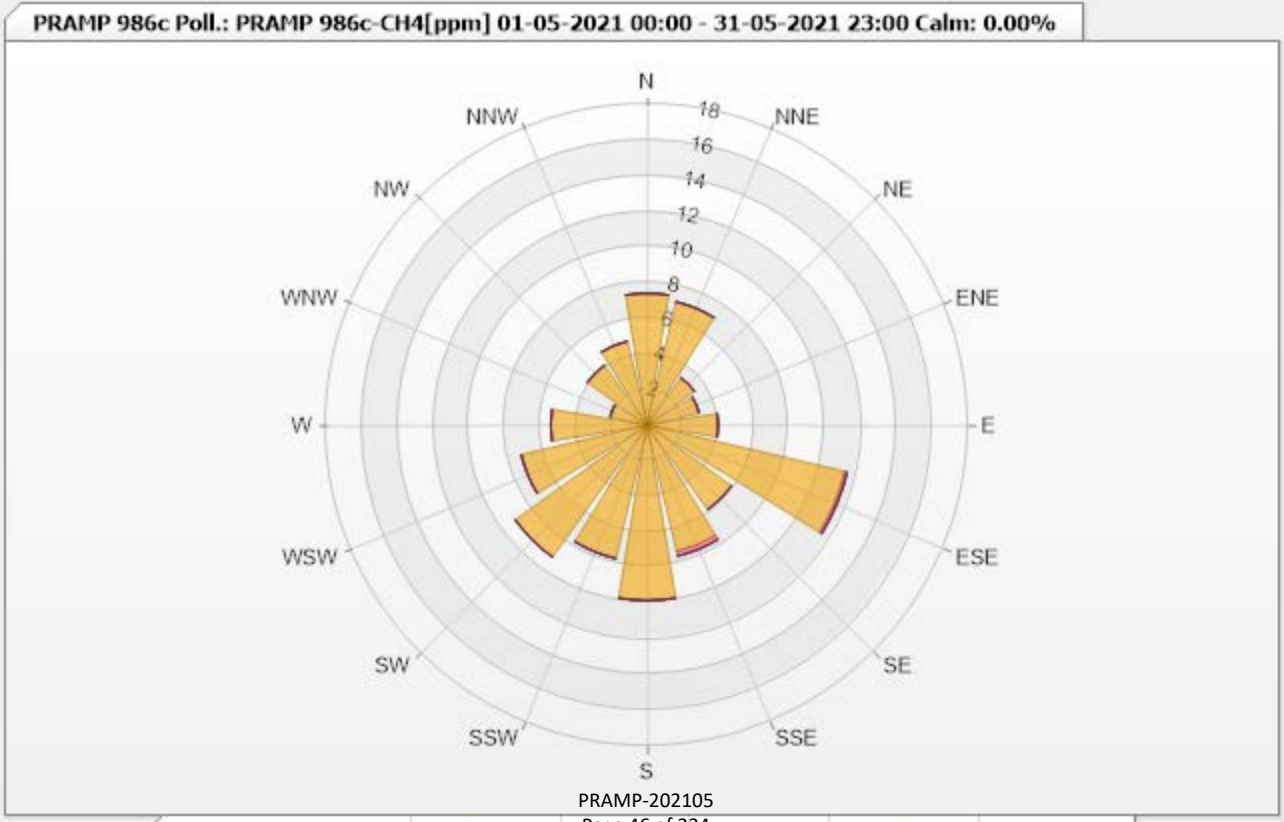




Classes	CH4
<=1.7	0.00%
1.7 - 2	99.57%
2 - 2.5	0.43%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-CH4[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppm]

Direction	0-2	2-3	3-10	10-20	>20.0	Total
N	7.4	0	0	0	0	7.4
NNE	7.11	0	0	0	0	7.11
NE	3.27	0	0	0	0	3.27
ENE	2.99	0	0	0	0	2.99
E	3.98	0	0	0	0	3.98
ESE	11.38	0.14	0	0	0	11.52
SE	5.83	0	0	0	0	5.83
SSE	7.25	0.28	0	0	0	7.53
S	9.82	0	0	0	0	9.82
SSW	7.68	0	0	0	0	7.68
SW	9.1	0	0	0	0	9.1
WSW	7.25	0	0	0	0	7.25
W	5.41	0	0	0	0	5.41
WNW	2.13	0	0	0	0	2.13
NW	4.13	0	0	0	0	4.13
NNW	4.84	0	0	0	0	4.84
Summary	100	0.42	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-CH4[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppm)
100 0-2
0 2-3
0 3-10
0 10-20
0 >20.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

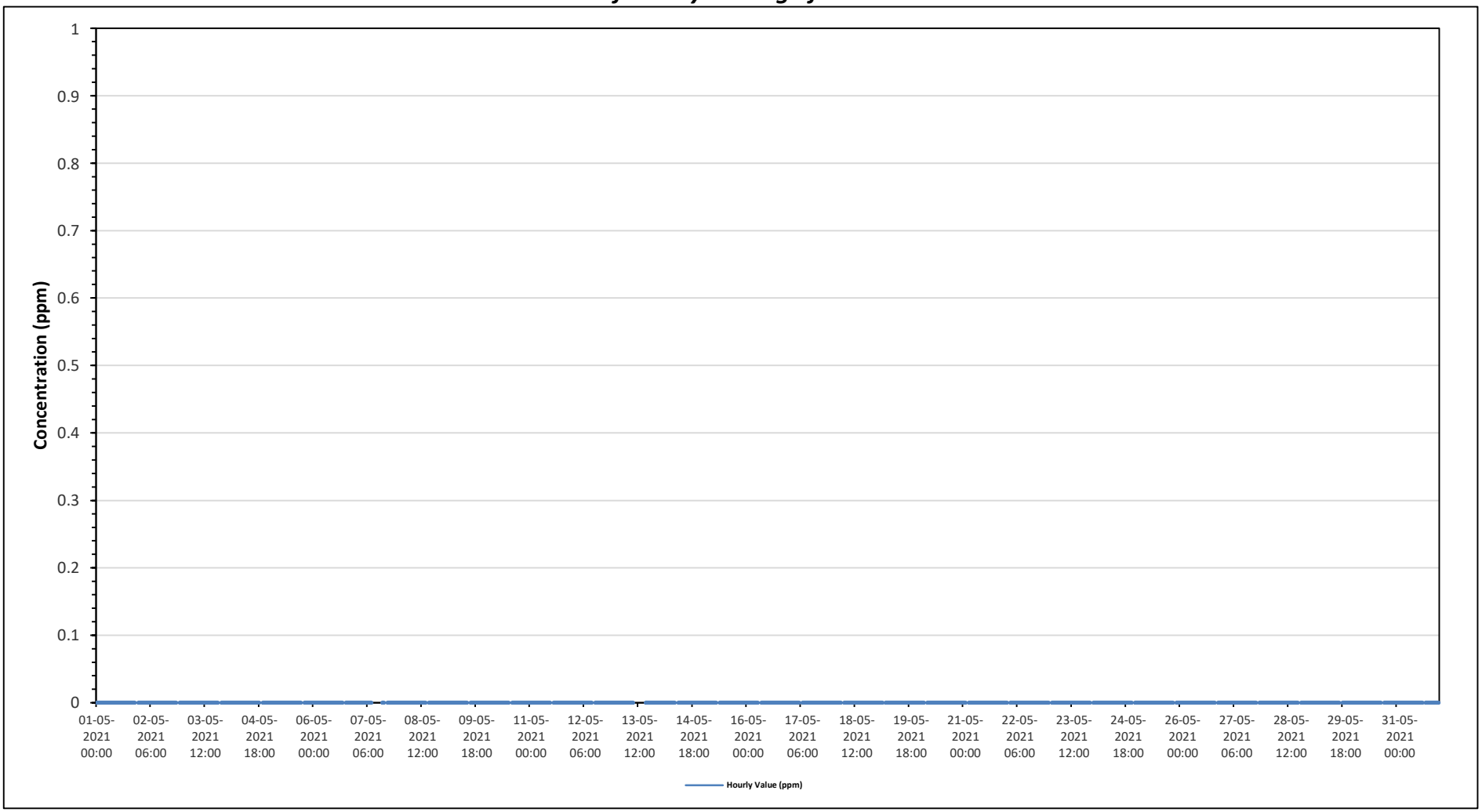
Maximum Hourly Value:	0.00	ppm	on May 1 at hour 0	Hours in Service:	744
Maximum Daily Value:	0.00	ppm	on May 1	Hours of Data:	703
Minimum Hourly Value:	0.00	ppm	on May 1 at hour 0	Hours of Missing Data:	5
Minimum Daily Value:	0.00	ppm	on May 1	Hours of Calibration:	36
Monthly Average:	0.00	ppm		Operational Uptime:	99.3

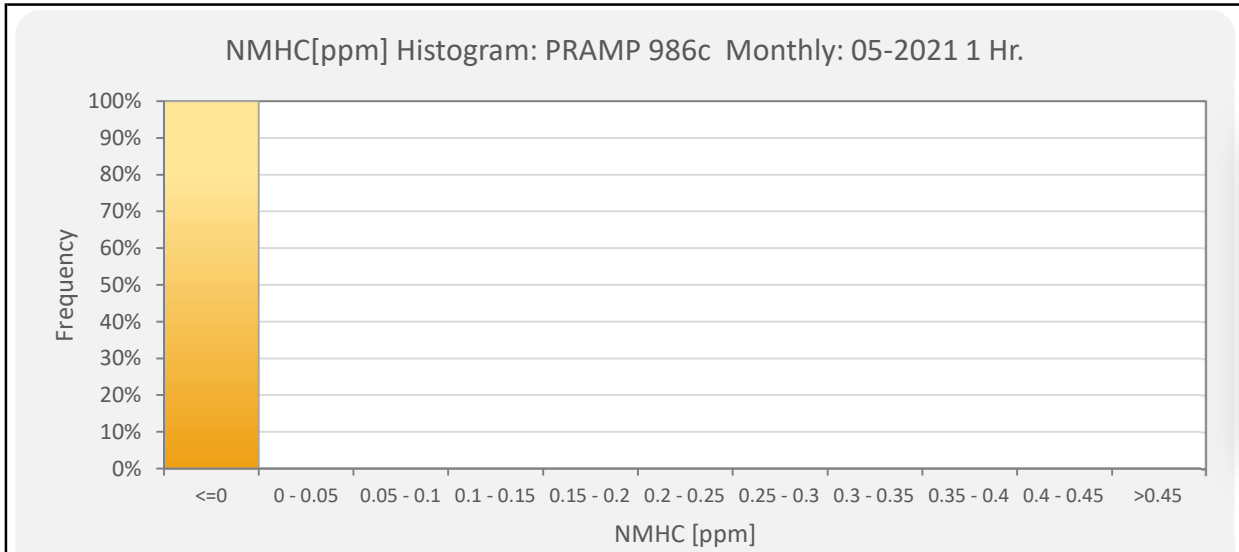
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
May 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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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	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
May 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	P	P	P	P	X	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
May 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	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
May 9	0.00	0.00	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
May 10	0.00	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
May 11	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
May 12	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
May 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	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
May 14	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
May 15	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
May 16	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
May 17	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
May 18	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
May 19	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
May 20	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
May 21	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
May 22	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
May 23	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
May 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	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
May 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	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 29	0.00	0.00	0.00	0.00	0.00	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
May 30	0.00	0.00	0.00	0.00	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
May 31	0.00	0.00	0.00	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	0.00	0.00	0.00	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			

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

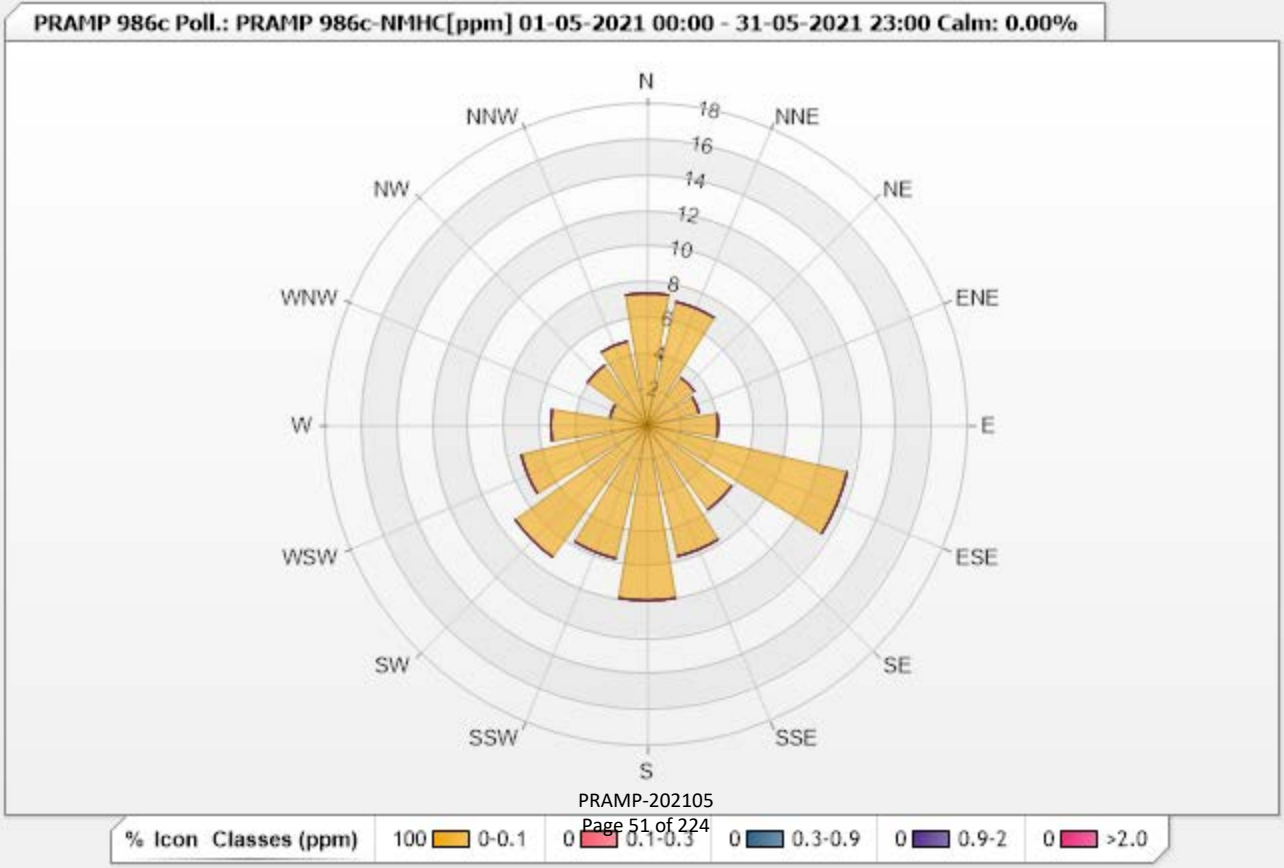




Classes	NMHC
<=0	100.00%
0 - 0.05	0.00%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-NMHC[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-0.9	0.9-2	>2.0	Total
N	7.4	0	0	0	0	7.4
NNE	7.11	0	0	0	0	7.11
NE	3.27	0	0	0	0	3.27
ENE	2.99	0	0	0	0	2.99
E	3.98	0	0	0	0	3.98
ESE	11.52	0	0	0	0	11.52
SE	5.83	0	0	0	0	5.83
SSE	7.54	0	0	0	0	7.54
S	9.82	0	0	0	0	9.82
SSW	7.68	0	0	0	0	7.68
SW	9.1	0	0	0	0	9.1
WSW	7.25	0	0	0	0	7.25
W	5.41	0	0	0	0	5.41
WNW	2.13	0	0	0	0	2.13
NW	4.13	0	0	0	0	4.13
NNW	4.84	0	0	0	0	4.84
Summary	100	0	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-NMHC[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppm)
100 0-0.1
0 0.1-0.3
0 0.3-0.9
0 0.9-2
0 >2.0

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PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

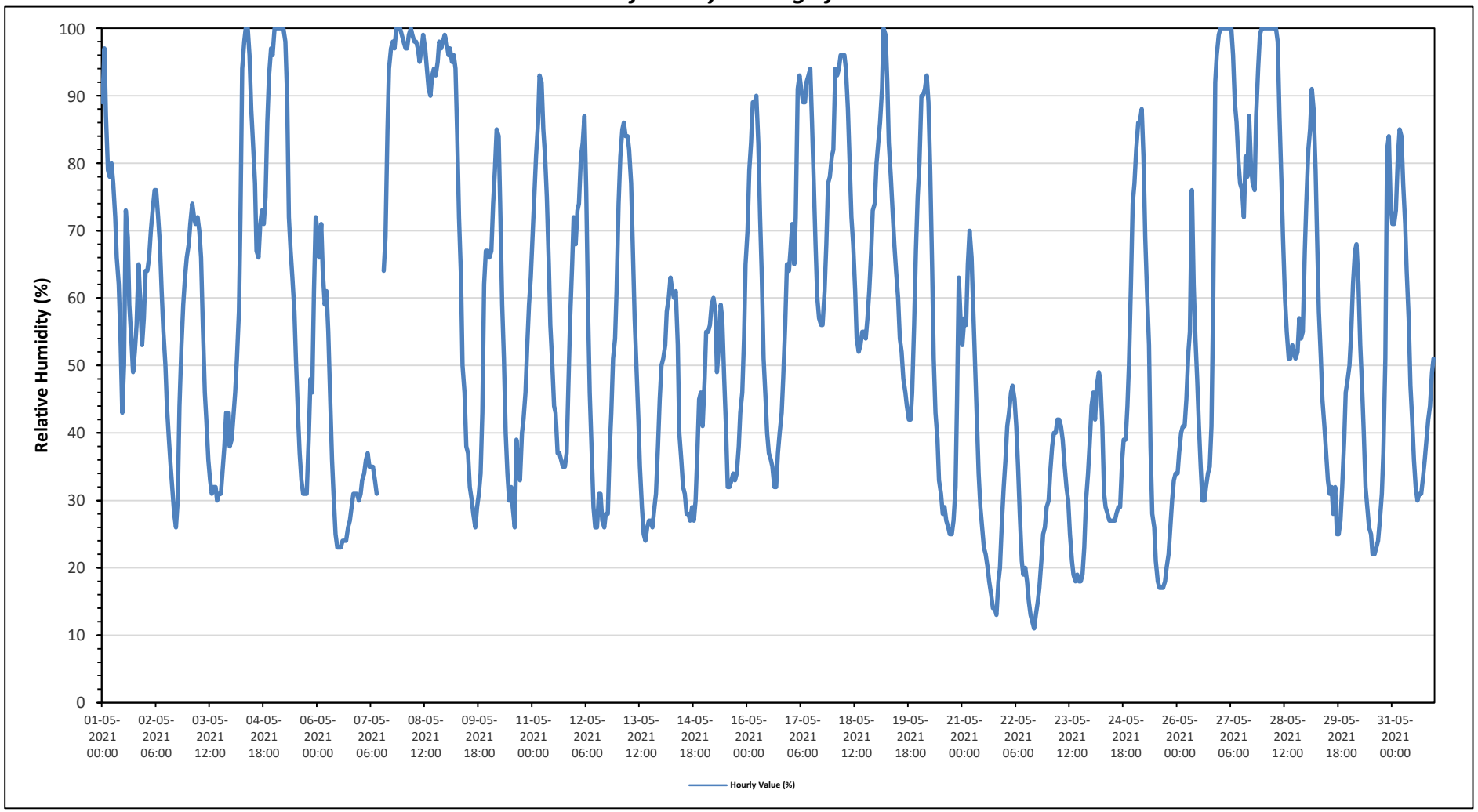
Maximum Hourly Value:	100	%	on May 4 at hour 8	Hours in Service:	744
Maximum Daily Value:	96.4	%	on May 8	Hours of Data:	741
Minimum Hourly Value:	11	%	on May 22 at hour 16	Hours of Missing Data:	3
Minimum Daily Value:	26.5	%	on May 22	Hours of Calibration:	0
Monthly Average:	56.0	%		Operational Uptime:	99.6

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
May 1	89	97	87	79	78	80	77	72	66	62	54	43	50	73	69	59	54	49	52	56	65	60	53	57	43	97	65.9
May 2	64	64	66	70	73	76	76	72	68	61	55	50	44	39	35	32	28	26	30	44	53	59	63	66	26	76	54.8
May 3	68	71	74	72	71	72	70	66	56	46	42	36	33	31	32	32	30	31	31	34	38	43	43	38	30	74	48.3
May 4	39	42	46	51	58	72	94	98	**100**	**100**	96	88	83	77	67	66	71	73	71	75	86	93	97	96	39	**100**	76.6
May 5	**100**	**100**	**100**	**100**	**100**	**100**	98	90	72	67	63	58	51	43	37	33	31	31	31	39	48	46	61	72	31	**100**	65.5
May 6	70	66	71	64	59	61	55	46	36	31	25	23	23	23	24	24	24	26	27	29	31	31	31	30	23	71	38.8
May 7	31	33	34	36	37	35	35	35	33	31	**P**	**P**	**P**	64	69	85	94	97	98	97	**100**	**100**	**100**	99	31	**100**	64.0
May 8	98	97	97	99	**100**	99	98	98	97	95	97	99	97	94	91	90	93	94	93	95	98	97	98	99	90	**100**	**96.4**
May 9	98	96	97	95	96	94	84	72	63	50	46	38	37	32	30	28	26	29	31	34	43	62	67	67	26	98	59.0
May 10	66	67	74	79	85	84	74	59	51	40	34	30	32	29	26	39	35	33	40	42	46	53	59	63	26	85	51.7
May 11	69	75	81	86	93	92	85	81	75	65	56	50	44	43	37	37	36	35	35	37	47	57	65	72	35	93	60.5
May 12	68	73	74	81	83	87	76	57	46	37	29	26	26	31	31	27	26	28	28	37	43	51	54	61	26	87	49.2
May 13	74	81	85	86	84	84	82	77	67	57	50	42	35	29	25	24	26	27	27	26	29	31	38	45	24	86	51.3
May 14	50	51	53	58	60	63	61	60	61	53	40	36	32	31	28	28	27	29	27	30	37	45	46	41	27	63	43.6
May 15	48	55	55	56	59	60	58	49	53	59	57	48	41	32	32	33	34	33	34	38	43	46	54	65	32	65	47.6
May 16	70	79	83	89	89	90	83	72	63	51	45	40	37	36	35	32	32	37	40	43	48	56	65	64	32	90	57.5
May 17	67	71	65	72	91	93	91	89	89	92	93	94	86	77	68	60	57	56	56	61	68	77	78	81	56	94	76.3
May 18	82	94	93	94	96	96	96	94	88	80	72	68	61	54	52	53	55	55	54	57	61	67	73	74	52	96	73.7
May 19	80	83	86	91	**100**	99	92	83	78	73	68	64	60	54	52	48	46	44	42	42	46	56	67	75	42	**100**	67.9
May 20	80	90	90	91	93	89	79	64	51	43	39	33	31	28	29	27	26	25	25	27	32	45	63	56	25	93	52.3
May 21	53	57	56	65	70	66	59	50	42	34	29	26	23	22	20	18	16	14	14	13	18	20	27	32	13	70	35.2
May 22	36	41	43	46	47	45	41	35	28	21	19	20	18	15	13	12	**11**	13	15	17	21	25	26	29	**11**	47	26.5
May 23	30	34	38	40	40	42	42	41	39	35	32	30	25	21	19	18	19	18	18	19	23	30	34	38	18	42	30.2
May 24	44	46	42	47	49	48	41	31	29	28	27	27	27	27	28	29	29	36	39	39	44	50	62	74	27	74	39.3
May 25	77	82	86	86	88	81	69	61	53	38	28	26	21	18	17	17	17	18	20	22	26	30	33	34	17	88	43.7
May 26	34	37	40	41	41	45	52	55	76	62	54	48	41	35	30	30	32	34	35	41	60	92	96	99	30	99	50.4
May 27	**100**	**100**	**100**	**100**	**100**	**100**	**100**	96	89	86	80	77	76	72	81	78	87	80	77	76	87	94	99	**100**	72	**100**	89.0
May 28	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	87	77	69	60	55	51	51	53	52	51	52	57	54	55	67	51	**100**	74.5
May 29	74	82	85	91	88	79	69	58	51	45	41	37	33	31	32	28	32	25	25	27	32	39	46	48	25	91	49.9
May 30	50	55	62	67	68	62	53	47	40	32	29	26	25	22	22	23	24	27	31	37	51	82	84	74	22	84	45.5
May 31	71	71	73	81	85	84	77	71	64	57	47	42	36	32	30	31	31	33	36	39	42	44	49	51	30	85	53.2
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	97	99	97	94	91	90	94	97	98	97	100	100	100	100			
Diurnal Average	67.1	70.6	72.1	74.6	76.8	76.7	73.1	67.1	62.0	55.4	50.8	46.5	42.9	41.0	39.1	38.5	38.8	39.0	39.8	42.7	49.1	56.0	60.8	63.5			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**N**	No Data (Machine Not in Service)	**Y**	Routine Maintenance	**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 - 986c Station



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PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

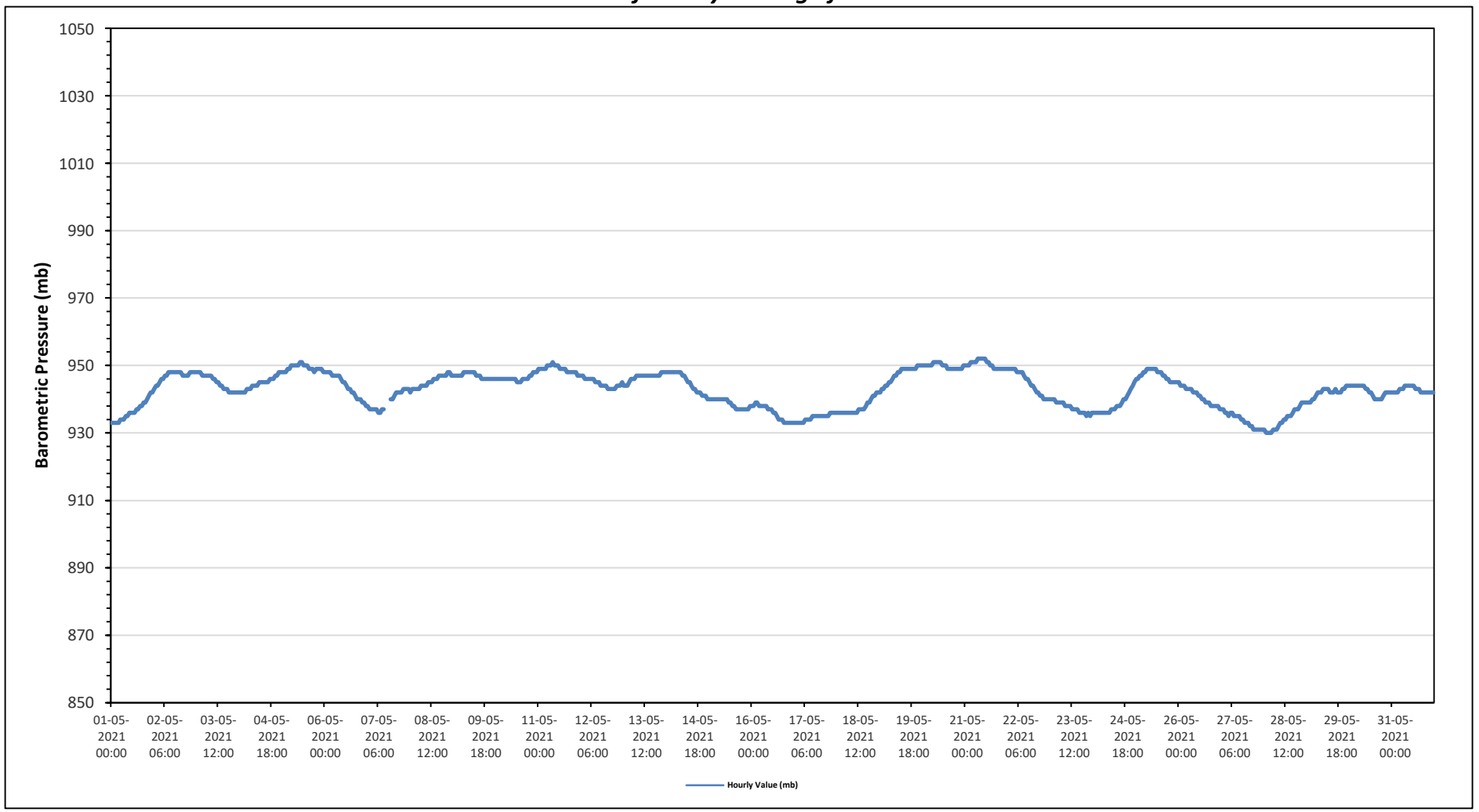
Maximum Hourly Value:	952	mb	on May 21 at hour 7	Hours in Service:	744
Maximum Daily Value:	950	mb	on May 21	Hours of Data:	741
Minimum Hourly Value:	930	mb	on May 28 at hour 1	Hours of Missing Data:	3
Minimum Daily Value:	934	mb	on May 27	Hours of Calibration:	0
Monthly Average:	943	mb		Operational Uptime:	99.6

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
May 1	933	933	933	933	933	934	934	934	935	935	936	936	936	936	937	937	938	938	939	939	940	941	942	942	933	942	936.4
May 2	943	944	944	945	946	946	947	947	948	948	948	948	948	948	948	948	947	947	947	947	948	948	948	948	943	948	946.9
May 3	948	948	948	947	947	947	947	947	947	946	946	945	945	944	944	943	943	943	942	942	942	942	942	942	942	948	944.9
May 4	942	942	942	942	943	943	943	944	944	944	944	945	945	945	945	945	945	946	946	946	947	947	948	948	942	948	944.6
May 5	948	948	948	949	949	950	950	950	950	950	951	951	950	950	950	949	949	949	948	949	949	949	949	948	948	951	949.3
May 6	948	948	948	948	947	947	947	947	947	946	945	945	944	943	943	942	942	941	940	940	940	939	939	938	938	948	943.9
May 7	938	937	937	937	937	937	936	936	937	937	P	P	P	940	940	941	942	942	942	942	943	943	943	943	936	943	939.5
May 8	942	943	943	943	943	943	944	944	944	944	945	945	945	946	946	946	947	947	947	947	947	948	948	947	942	948	945.2
May 9	947	947	947	947	947	947	948	948	948	948	948	948	948	947	947	947	946	946	946	946	946	946	946	946	946	948	947.0
May 10	946	946	946	946	946	946	946	946	946	946	946	946	945	945	945	946	946	946	946	947	947	948	948	948	945	948	946.2
May 11	949	949	949	949	949	950	950	950	951	950	950	950	949	949	949	949	948	948	948	948	948	948	947	947	947	951	948.9
May 12	947	947	946	946	946	946	946	946	945	945	945	944	944	944	944	943	943	943	943	943	944	944	944	945	943	947	944.7
May 13	944	944	944	945	946	946	946	947	947	947	947	947	947	947	947	947	947	947	947	947	947	948	948	948	944	948	946.5
May 14	948	948	948	948	948	948	948	948	948	947	947	946	945	945	944	943	943	942	942	942	941	941	941	940	940	948	945.0
May 15	940	940	940	940	940	940	940	940	940	940	940	939	939	938	938	937	937	937	937	937	937	937	937	938	937	940	938.7
May 16	938	938	939	939	938	938	938	938	938	937	937	937	936	936	935	934	934	934	933	933	933	933	933	933	933	939	935.9
May 17	933	933	933	933	933	933	934	934	934	934	935	935	935	935	935	935	935	935	935	935	936	936	936	936	933	936	934.5
May 18	936	936	936	936	936	936	936	936	936	936	936	936	937	937	937	937	938	939	939	940	941	941	942	942	936	942	937.6
May 19	942	943	943	944	944	945	945	946	947	947	948	948	949	949	949	949	949	949	949	949	949	950	950	950	942	950	947.2
May 20	950	950	950	950	950	950	951	951	951	951	951	950	950	950	949	949	949	949	949	949	949	949	949	950	949	951	949.8
May 21	950	950	950	951	951	951	951	**952**	**952**	**952**	**952**	**952**	951	951	950	950	949	949	949	949	949	949	949	949	949	**952**	**950.3**
May 22	949	949	949	949	949	948	948	948	948	947	946	946	945	944	944	943	942	942	941	941	940	940	940	940	940	949	944.9
May 23	940	940	940	939	939	939	939	939	938	938	938	938	937	937	937	937	936	936	936	936	935	936	935	936	935	940	937.5
May 24	936	936	936	936	936	936	936	936	936	936	937	937	937	938	938	938	939	940	940	941	942	943	944	945	936	945	938.3
May 25	946	946	947	947	948	948	949	949	949	949	949	949	948	948	948	947	947	946	946	945	945	945	945	945	945	949	947.1
May 26	945	944	944	944	943	943	943	943	942	942	942	941	941	940	940	939	939	939	938	938	938	938	938	937	937	945	940.9
May 27	937	937	936	936	935	936	936	935	935	935	935	934	934	933	933	933	932	932	931	931	931	931	931	931	931	937	933.8
May 28	931	**930**	**930**	**930**	**930**	931	931	931	932	933	933	934	934	935	935	935	936	937	937	937	938	939	939	939	**930**	939	934.0
May 29	939	939	939	940	940	941	942	942	942	943	943	943	943	942	942	942	943	942	942	942	943	943	944	944	939	944	941.9
May 30	944	944	944	944	944	944	944	944	944	943	943	942	942	941	940	940	940	940	940	941	942	942	942	942	940	944	942.3
May 31	942	942	942	942	943	943	943	944	944	944	944	944	944	943	943	943	942	942	942	942	942	942	942	942	942	944	942.8
Diurnal Maximum	950	950	950	951	951	951	951	952	952	952	952	952	951	951	950	950	949	949	949	949	949	950	950	950			
Diurnal Average	943	943	943	943	943	943	943	943	943	943	944	943	943	943	943	942	942	942	942	942	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 pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

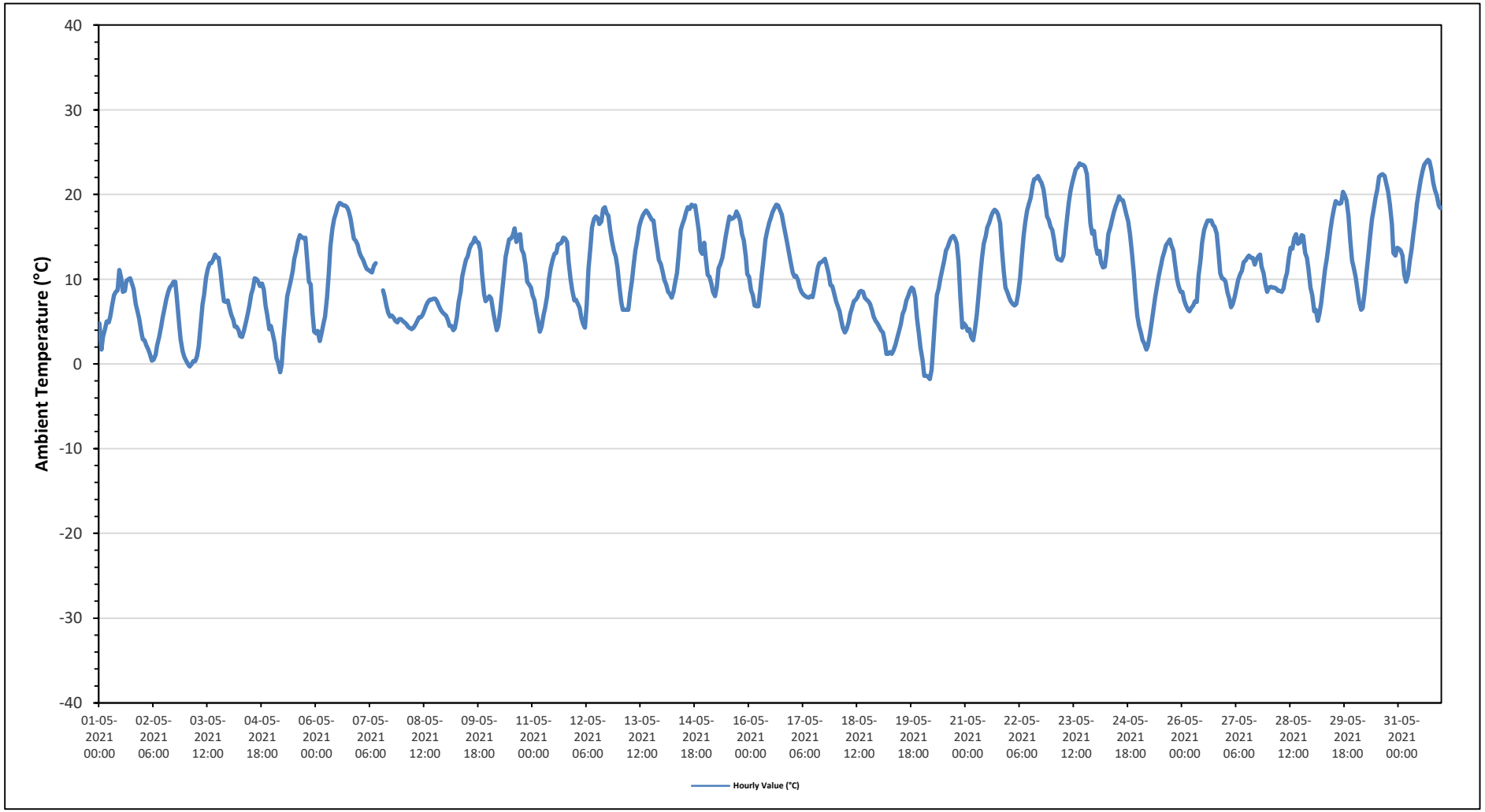
Maximum Hourly Value:	24.1	°C	on May 31 at hour 16	Hours in Service:	744
Maximum Daily Value:	18.3	°C	on May 23	Hours of Data:	741
Minimum Hourly Value:	-1.8	°C	on May 20 at hour 4	Hours of Missing Data:	3
Minimum Daily Value:	4.4	°C	on May 2	Hours of Calibration:	0
Monthly Average:	10.8	°C		Operational Uptime:	99.6

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
May 1	4.8	1.7	3.2	4.1	5	4.9	5.6	7	8.1	8.5	8.7	11.1	10.2	8.5	8.6	9.8	10	10.1	9.4	8.8	7.1	6.2	5.3	4	1.7	11.1	7.1
May 2	2.9	2.8	2.2	1.7	1.1	0.4	0.5	1.1	2.2	3.2	4.3	5.5	6.5	7.6	8.5	9	9.3	9.7	9.7	7.5	4.8	2.9	1.5	0.8	0.4	9.7	4.4
May 3	0.3	0	-0.3	0	0.3	0.3	0.9	2.1	4.4	7	8.1	10.2	11.2	11.9	11.9	12.3	12.9	12.6	12.5	11	9	7.4	7.3	7.5	-0.3	12.9	6.7
May 4	6.6	5.8	5.2	4.4	4.4	4	3.3	3.2	3.9	4.9	5.7	6.9	8.2	8.9	10.1	10	9.7	9.2	9.5	8.8	6.9	5.7	4.1	4.5	3.2	10.1	6.4
May 5	3.5	2.5	0.7	0.1	-1	-0.1	3	5.8	8	8.9	9.8	11	12.4	13.4	14.5	15.2	15	14.8	14.9	12.7	9.7	9.4	6.1	3.8	-1.0	15.2	8.1
May 6	3.6	3.9	2.7	3.6	4.8	5.6	7.9	10.8	13.8	15.9	17.1	17.8	18.6	19	18.9	18.7	18.7	18.5	18.1	17.2	15.9	14.8	14.5	14.1	2.7	19.0	13.1
May 7	13.2	12.7	12.3	11.7	11.2	11.1	10.9	10.8	11.6	11.9	P	P	P	8.7	8	6.8	6	5.6	5.7	5.4	5.1	4.9	5.3	5.3	4.9	13.2	8.8
May 8	5.1	4.9	4.7	4.4	4.2	4.1	4.3	4.6	5.1	5.5	5.5	5.8	6.3	6.9	7.3	7.6	7.6	7.7	7.7	7.4	6.9	6.4	6.1	5.9	4.1	7.7	5.9
May 9	5.7	5.2	4.5	4.5	4	4.2	5.5	7.3	8.5	10.3	11.4	12.3	12.7	13.6	14.1	14.3	14.9	14.4	14.3	13.4	10.6	8.2	7.4	7.7	4.0	14.9	9.5
May 10	8	7.7	6.4	5.2	4	4.5	6.3	8.4	10.4	12.6	13.8	14.7	14.8	15.2	16	14.4	15.2	15.3	13.5	13	11.7	9.7	9.4	9	4.0	16.0	10.8
May 11	8.1	7.5	6.1	5	3.8	4.4	5.8	6.6	8	10	11.3	12.2	13	13.1	14.1	14.2	14.3	14.9	14.8	14.4	12.1	10	8.6	7.5	3.8	14.9	10.0
May 12	7.6	7.1	6.6	5.4	4.7	4.3	7	11.2	13.9	16.1	17.1	17.4	17.2	16.5	16.8	18.3	18.5	17.8	17.5	15.8	14.5	13.3	12.7	11.4	4.3	18.5	12.9
May 13	9.3	7.3	6.4	6.4	6.4	6.4	8.3	9.7	11.9	13.4	14.7	16.2	16.9	17.5	17.9	18.1	17.8	17.4	17	16.9	15.2	13.6	12.3	11.8	6.4	18.1	12.9
May 14	10.9	9.9	9.4	8.5	8.3	7.8	8.5	9.8	10.7	13	15.8	16.4	17.1	17.9	18.5	18.3	18.8	18.6	18.7	17.3	15.6	13.4	13	14.3	7.8	18.8	13.8
May 15	12.6	10.5	10.3	9.4	8.5	8	9.1	11.3	11.8	12.5	13.6	15	16.3	17.4	17.1	17.2	17.4	18	17.5	16.8	15.3	14.6	12.7	10.6	8.0	18.0	13.5
May 16	10.3	8.7	8.1	6.9	6.8	6.8	8.4	10.7	12.6	14.7	15.7	16.7	17.3	17.9	18.4	18.8	18.7	18.2	17.6	16.6	15.4	14.3	13	12	6.8	18.8	13.5
May 17	10.8	10.3	10.4	9.9	9	8.5	8.2	8	7.9	7.8	8	7.9	8.8	10.2	11.4	11.9	12	12.2	12.4	11.6	10.6	9.3	9.2	8.4	7.8	12.4	9.8
May 18	7.4	6.9	6.2	5.1	4.3	3.7	4.1	4.9	5.9	6.7	7.4	7.6	7.9	8.5	8.6	8.5	7.8	7.6	7.4	7.1	6.3	5.6	5.1	4.8	3.7	8.6	6.5
May 19	4.4	4	3.7	2.7	1.2	1.2	1.4	1.2	1.6	2.3	3	3.9	4.7	5.9	6.4	7.5	8	8.6	9	8.8	7.8	5.4	3.5	1.9	1.2	9.0	4.5
May 20	0.5	-1.4	-1.4	-1.5	**-1.8**	-0.7	2.3	5.5	8.1	8.9	10.1	11.2	12.2	13.4	13.8	14.5	14.9	15.1	14.8	14.2	12.1	8	4.3	4.8	**-1.8**	15.1	7.6
May 21	4.5	3.9	4.1	3.2	2.8	3.9	5.7	8	10.4	12.5	14.2	15.1	16.1	16.7	17.4	17.9	18.2	18	17.6	16.6	13.5	11	9	8.5	2.8	18.2	11.2
May 22	7.8	7.4	7.1	6.9	7.1	8.2	10.1	12.7	15.1	16.8	18.1	18.9	19.6	21.1	21.8	21.9	22.2	21.7	21.4	20.6	19.1	17.4	17	16.2	6.9	22.2	15.7
May 23	15.8	14.6	12.9	12.4	12.3	12.2	12.8	14.8	17.1	19	20.4	21.4	22.2	23	23.2	23.7	23.5	23.5	23.3	22.4	20.1	16.6	15.4	15.7	12.2	23.7	**18.3**
May 24	13.9	13	13.3	12	11.4	11.5	13	15.3	16.1	16.9	17.9	18.6	19.2	19.8	19.4	19.3	18.6	17.6	16.8	15.3	13.3	10.8	8.3	5.7	5.7	19.8	14.9
May 25	4.5	3.6	2.8	2.4	1.7	2.1	3.5	4.9	6.4	7.9	9.3	10.5	11.5	12.5	13.3	14	14.3	14.7	14	13.4	11.7	10	9.2	8.5	1.7	14.7	8.6
May 26	8.5	7.5	6.9	6.4	6.2	6.6	6.9	7.4	7.3	10.4	12.3	14.3	15.8	16.4	16.9	16.9	16.9	16.4	16.2	15.4	13.2	10.7	10.1	10	6.2	16.9	11.5
May 27	9.7	8.4	7.7	6.7	7.1	8	9	9.9	10.6	11	12	12.2	12.6	12.8	12.5	12.5	11.7	12.3	12.7	12.9	11.5	10.7	9.4	8.5	6.7	12.9	10.5
May 28	9	9.1	9	9	8.9	8.6	8.6	8.5	8.9	9.9	10.8	12.5	13.7	13.6	14.9	15.3	14.2	14.3	15.2	15.1	13.1	12.5	11.2	9	8.5	15.3	11.5
May 29	8.1	6.2	6.4	5.1	6	7.3	9.2	11.2	12.3	14.1	15.8	17.2	18.3	19.2	19	18.9	19	20.3	19.9	19.3	17.4	14.5	12.2	11.3	5.1	20.3	13.7
May 30	10.3	8.8	7.3	6.4	6.6	8.5	10.7	12.7	14.9	17.1	18.3	19.6	20.6	22.1	22.3	22.4	22.2	21.4	20.3	18.8	16.5	13.1	12.8	13.7	6.4	22.4	15.3
May 31	13.6	13.4	12.8	10.6	9.7	10.5	12.2	13.5	15.3	17.1	18.9	20.4	21.7	22.7	23.5	23.8	**24.1**	23.9	22.8	21.4	20.5	19.9	18.7	18.4	9.7	**24.1**	17.9
Diurnal Maximum	15.8	14.6	13.3	12.4	12.3	12.2	13.0	15.3	17.1	19.0	20.4	21.4	22.2	23.0	23.5	23.8	24.1	23.9	23.3	22.4	20.5	19.9	18.7	18.4			
Diurnal Average	7.8	6.9	6.4	5.8	5.5	5.7	6.9	8.4	9.8	11.2	12.3	13.4	14.1	14.6	15.0	15.2	15.2	15.2	14.9	14.1	12.3	10.7	9.5	8.9			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance	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 - May 2021

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

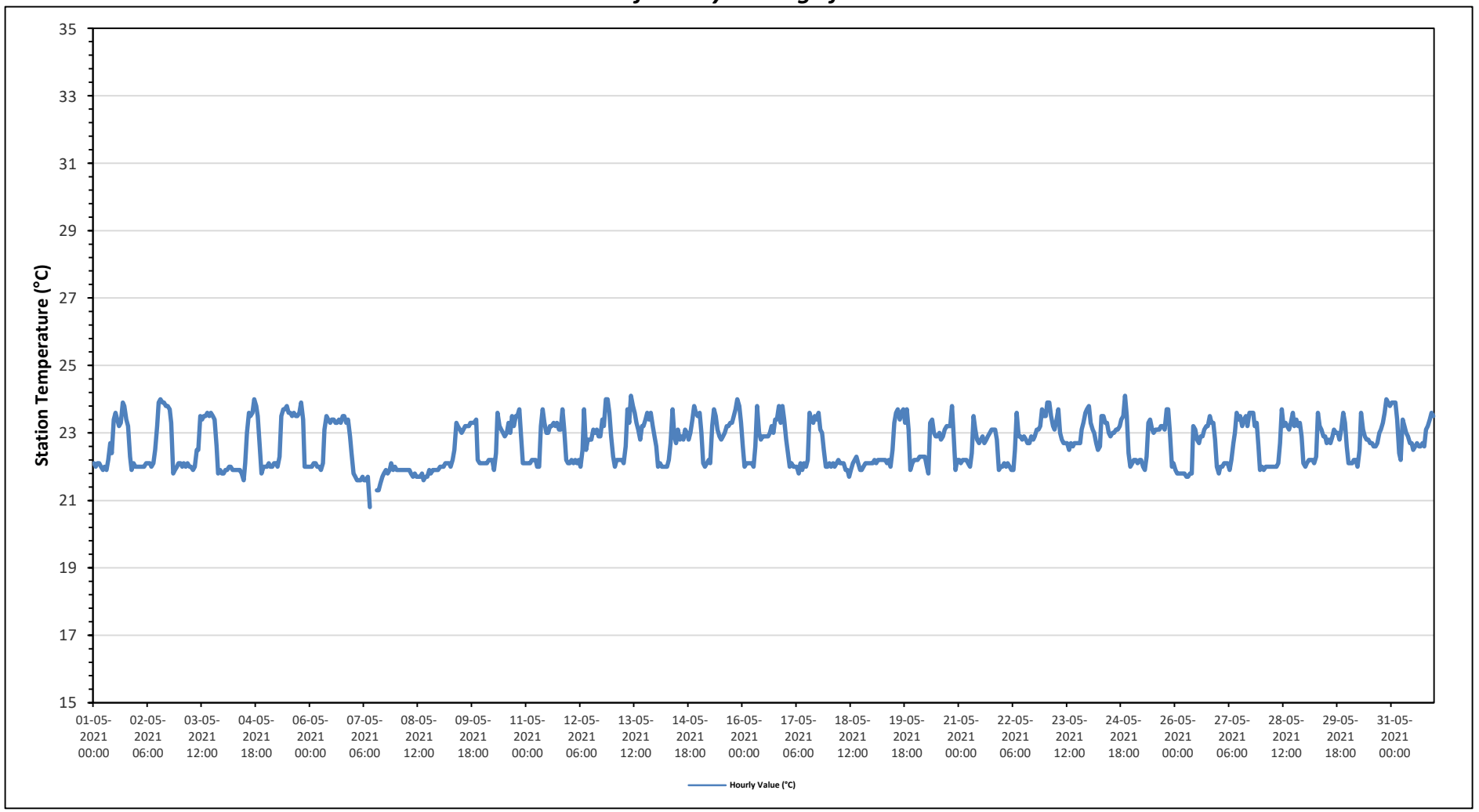
Maximum Hourly Value:	24.1	°C	on May 13 at hour 10	Hours in Service:	744
Maximum Daily Value:	23.1	°C	on May 24	Hours of Data:	741
Minimum Hourly Value:	20.8	°C	on May 7 at hour 9	Hours of Missing Data:	3
Minimum Daily Value:	21.7	°C	on May 7	Hours of Calibration:	0
Monthly Average:	22.7	°C		Operational Uptime:	99.6

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
May 1	22.1	22.0	22.1	22.1	22.0	21.9	22.0	21.9	22.2	22.7	22.4	23.4	23.6	23.4	23.2	23.3	23.9	23.8	23.4	23.2	22.3	21.9	22.1	22.0	21.9	23.9	22.6
May 2	22.0	22.0	22.0	22.0	22.0	22.1	22.1	22.1	22.0	22.1	22.5	23.2	23.9	24.0	23.9	23.9	23.8	23.8	23.7	23.3	21.8	21.9	22.0	22.1	21.8	24.0	22.7
May 3	22.1	22.0	22.1	22.0	22.1	22.0	22.0	21.9	22.0	22.5	22.5	23.5	23.4	23.5	23.5	23.6	23.5	23.6	23.5	23.4	22.6	21.8	21.9	21.8	21.8	23.6	22.6
May 4	21.8	21.9	21.9	22.0	22.0	21.9	21.9	21.9	21.9	21.9	21.8	21.6	22.1	23.0	23.6	23.5	23.6	24.0	23.8	23.5	22.6	21.8	22.0	22.0	21.6	24.0	22.4
May 5	22.0	22.1	22.0	22.0	22.1	22.1	22.0	22.3	23.5	23.7	23.7	23.8	23.6	23.6	23.5	23.6	23.5	23.5	23.6	23.9	23.4	22.0	22.0	22.0	22.0	23.9	22.9
May 6	22.0	22.0	22.1	22.1	22.0	22.0	21.9	22.1	23.1	23.5	23.4	23.3	23.4	23.4	23.3	23.3	23.4	23.3	23.5	23.5	23.3	23.4	22.9	22.4	21.9	23.5	22.9
May 7	21.8	21.7	21.6	21.6	21.6	21.7	21.6	21.6	21.7	**20.8**	**P**	**P**	**P**	21.3	21.3	21.5	21.7	21.8	21.9	21.8	21.9	22.1	21.9	22.0	**20.8**	22.1	21.7
May 8	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.8	21.7	21.8	21.7	21.7	21.7	21.8	21.6	21.7	21.7	21.9	21.8	21.9	21.9	21.9	21.9	21.6	21.9	21.8
May 9	22.0	22.0	22.0	22.1	22.1	22.1	22.0	22.2	22.5	23.3	23.2	23.1	23.0	23.1	23.2	23.2	23.2	23.3	23.3	23.3	23.4	22.2	22.1	22.1	22.0	23.4	22.7
May 10	22.1	22.1	22.1	22.2	22.2	22.2	21.9	22.4	23.6	23.2	23.1	23.0	22.9	23.0	23.3	23.0	23.5	23.2	23.5	23.5	23.7	22.9	22.1	22.1	21.9	23.7	22.8
May 11	22.1	22.1	22.1	22.2	22.2	22.2	22.0	22.0	23.2	23.7	23.3	23.0	23.0	23.2	23.2	23.3	23.2	23.3	23.1	23.1	23.7	23.1	22.2	22.1	22.0	23.7	22.8
May 12	22.1	22.2	22.1	22.2	22.1	22.2	22.0	22.5	23.7	22.5	22.8	22.8	22.8	23.1	23.0	23.1	22.9	22.9	23.4	23.2	24.0	24.0	23.6	22.9	22.0	24.0	22.8
May 13	22.3	22.0	22.2	22.2	22.2	22.2	22.1	22.6	23.7	23.3	**24.1**	23.8	23.6	23.3	23.1	22.8	23.2	23.2	23.4	23.6	23.4	23.6	23.2	22.9	22.0	**24.1**	23.0
May 14	22.6	22.0	22.1	22.0	22.0	22.0	22.0	22.2	22.7	23.7	22.9	22.7	23.1	22.8	22.9	22.8	23.1	23.0	22.8	23.0	23.4	23.8	23.6	23.5	22.0	23.8	22.8
May 15	23.6	23.0	22.1	22.0	22.1	22.2	22.1	23.2	23.7	23.5	23.1	22.9	22.8	22.9	23.0	23.2	23.2	23.3	23.3	23.5	23.7	24.0	23.8	23.3	22.0	24.0	23.1
May 16	22.6	22.0	22.1	22.1	22.1	22.1	22.0	22.6	23.8	23.0	22.8	22.9	22.9	22.9	22.9	23.0	23.2	23.0	23.4	23.4	23.8	23.3	23.8	23.4	22.0	23.8	22.9
May 17	22.8	22.4	22.0	22.1	22.0	22.0	22.0	21.8	22.1	21.9	22.1	22.0	22.2	23.6	23.4	23.3	23.5	23.4	23.6	23.1	23.0	22.5	22.0	22.0	21.8	23.6	22.5
May 18	22.1	22.0	22.1	22.0	22.1	22.2	22.1	22.1	22.1	21.9	21.9	21.7	21.9	22.1	22.2	22.3	22.1	21.9	21.9	22.0	22.1	22.1	22.1	22.1	21.7	22.3	22.0
May 19	22.1	22.2	22.1	22.2	22.2	22.2	22.2	22.2	22.1	22.2	22.0	22.5	23.3	23.6	23.7	23.4	23.6	23.7	23.3	23.7	23.1	21.9	22.1	22.2	21.9	23.7	22.7
May 20	22.2	22.2	22.3	22.3	22.3	22.3	22.0	21.8	23.3	23.4	23.0	22.9	22.9	23.0	22.8	22.9	23.1	23.2	23.2	23.2	23.8	22.9	21.9	22.2	21.8	23.8	22.7
May 21	22.2	22.1	22.2	22.2	22.2	22.1	22.0	22.4	23.5	23.1	22.8	22.7	22.8	22.9	22.7	22.8	22.9	23.0	23.1	23.1	23.1	22.8	21.9	22.0	21.9	23.5	22.6
May 22	22.0	22.1	22.0	22.1	22.0	21.9	21.9	22.5	23.6	22.9	22.9	22.8	22.9	22.8	22.7	22.7	22.9	22.8	22.9	23.1	23.1	23.2	23.7	23.5	21.9	23.7	22.7
May 23	23.5	23.9	23.9	23.5	23.2	23.1	23.4	23.7	23.0	22.8	22.7	22.7	22.7	22.5	22.7	22.6	22.7	22.7	22.7	23.1	23.3	23.6	23.7	22.5	23.9	23.1
May 24	23.8	23.3	23.1	23.0	22.7	22.5	22.6	23.5	23.5	23.3	23.3	23.0	22.9	23.0	23.0	23.1	23.1	23.2	23.4	23.5	**24.1**	23.5	22.4	22.0	22.0	**24.1**	**23.1**
May 25	22.1	22.2	22.2	22.1	22.2	22.2	22.0	21.9	22.3	23.3	23.4	23.1	23.0	23.1	23.1	23.1	23.2	23.2	23.1	23.7	23.7	23.0	22.0	22.1	21.9	23.7	22.7
May 26	21.9	21.8	21.8	21.8	21.8	21.8	21.7	21.7	21.8	21.8	23.2	23.1	22.8	22.7	22.9	22.9	23.1	23.2	23.2	23.5	23.3	23.3	22.8	22.0	21.7	23.5	22.5
May 27	21.8	22.0	22.0	22.1	22.1	22.1	21.9	22.2	22.7	23.0	23.6	23.4	23.5	23.2	23.4	23.5	23.2	23.6	23.6	23.6	23.2	23.3	22.6	21.9	21.8	23.6	22.8
May 28	22.0	21.9	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.1	22.7	23.7	23.2	23.3	23.2	23.1	23.3	23.6	23.2	23.4	23.2	23.3	22.9	22.1	21.9	23.7	22.7
May 29	22.0	22.1	22.2	22.2	22.2	22.1	22.3	23.6	23.2	23.1	22.9	22.9	22.7	22.8	22.7	22.9	23.1	23.0	23.0	22.8	23.1	23.6	23.3	22.6	22.0	23.6	22.8
May 30	22.1	22.1	22.1	22.2	22.2	22.0	22.5	23.6	23.1	22.9	22.8	22.8	22.7	22.7	22.6	22.6	22.7	23.0	23.1	23.3	23.6	24.0	23.9	23.8	22.0	24.0	22.9
May 31	23.9	23.9	23.9	23.4	22.4	22.2	23.4	23.2	23.0	22.9	22.7	22.7	22.5	22.6	22.7	22.6	22.6	22.7	22.6	23.1	23.2	23.4	23.6	23.5	22.2	23.9	23.0
Diurnal Maximum	23.9	23.9	23.9	23.5	23.2	23.1	23.4	23.7	23.8	23.7	24.1	23.8	23.9	24.0	23.9	23.9	23.9	24.0	23.8	23.9	24.1	24.0	23.9	23.8			
Diurnal Average	22.3	22.2	22.2	22.2	22.1	22.1	22.1	22.4	22.8	22.8	22.8	22.9	22.9	23.0	23.0	23.0	23.1	23.1	23.1	23.2	23.1	22.9	22.6	22.5			

C	Monthly Calibration	**S**	Daily Zero-Span Check	**Q**	Quality Assurance	
K	Collection Error	**N**	No Data (Machine Not in Service)	**Y**	Routine Maintenance	**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 pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

PRECIPITATION in mm

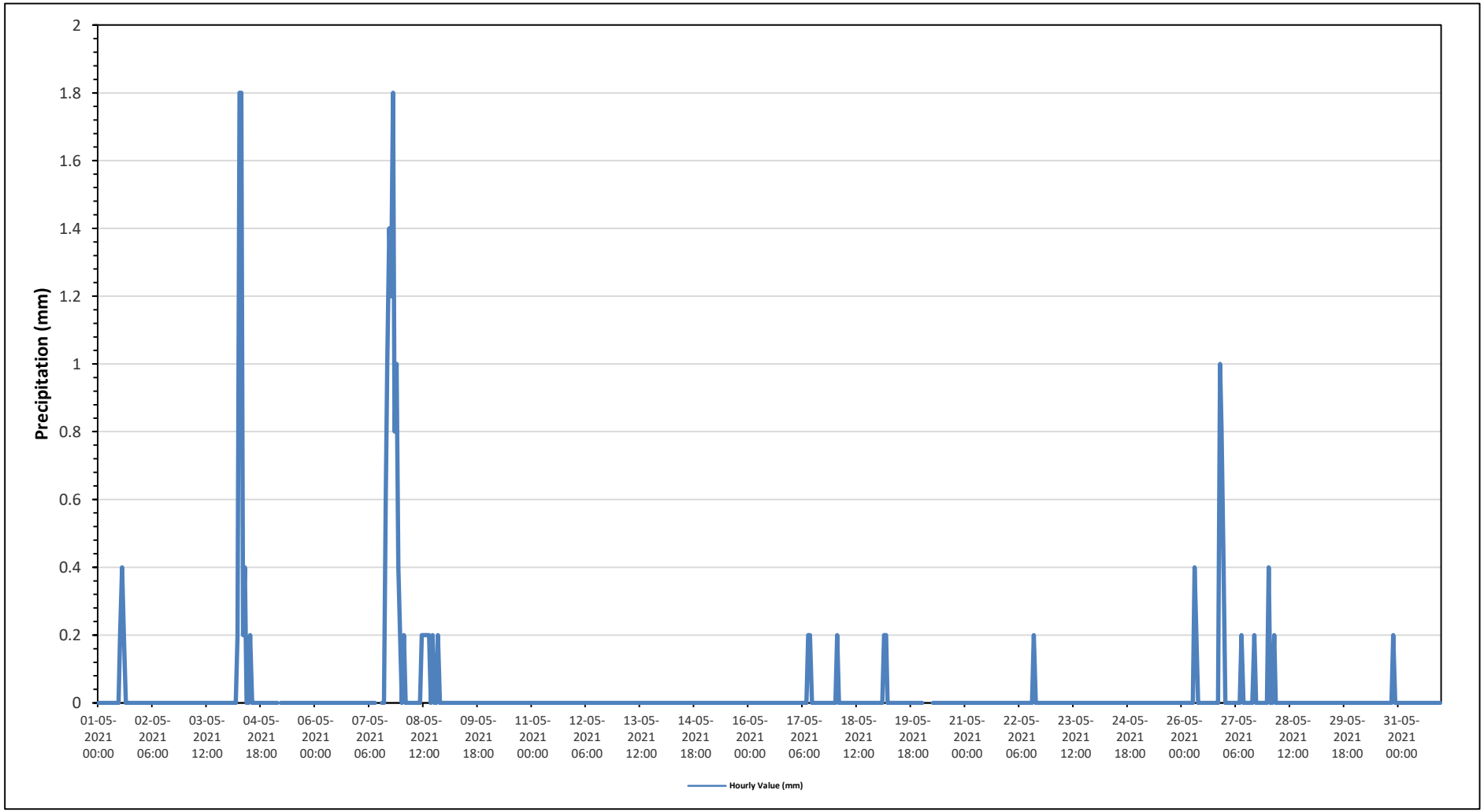
Maximum Hourly Value:	1.8	mm	on May 4 at hour 6	Hours in Service:	744
Maximum Daily Value:	8.4	mm	on May 7	Hours of Data:	735
Minimum Hourly Value:	0.0	mm	on May 1 at hour 0	Hours of Missing Data:	9
Minimum Daily Value:	0.0	mm	on May 2	Hours of Calibration:	0
Monthly Total:	20.6	mm		Operational Uptime:	98.8

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	Total
May 1	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.4	0.2	0	0	0	0	0	0	0	0	0	0.0	0.4	0.8
May 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
May 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 4	0	0	0	0	0	0.2	1.8	1.8	0.2	0.4	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0.0	1.8	4.6
May 5	0	0	0	0	K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 7	0	0	0	0	0	0	0	0	0	0	P	P	P	0	0	0.6	1	1.4	1.2	1.8	0.8	1	0.4	0.2	0.0	1.8	8.4
May 8	0	0.2	0	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0	0.2	0	0	0.2	0	0	0	0.0	0.2	1.6
May 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
May 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
May 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
May 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
May 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
May 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
May 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
May 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
May 17	0	0	0	0	0	0	0	0	0	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	0.4
May 18	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	0.2
May 19	0	0	0	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	0.4
May 20	0	K	K	K	K	K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 22	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	0.2	0.2
May 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
May 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
May 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 26	0	0	0	0	0	0	0	0.4	0.2	0	0	0	0	0	0	0	0	0	0	0	0	1	0.8	0.4	0.0	1.0	2.8
May 27	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0.0	0.2	0.4
May 28	0.4	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4	0.6
May 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0.0	0.2	0.2
May 31	0	0	0	0	0	0	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	0.4	0.2	0.0	0.2	0.2	0.2	1.8	1.8	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.6	1.0	1.4	1.2	1.8	0.8	1.0	0.8	0.4			
Diurnal Average	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	0.1	0.0	0.1	0.0	0.1	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 - 986c Station



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PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

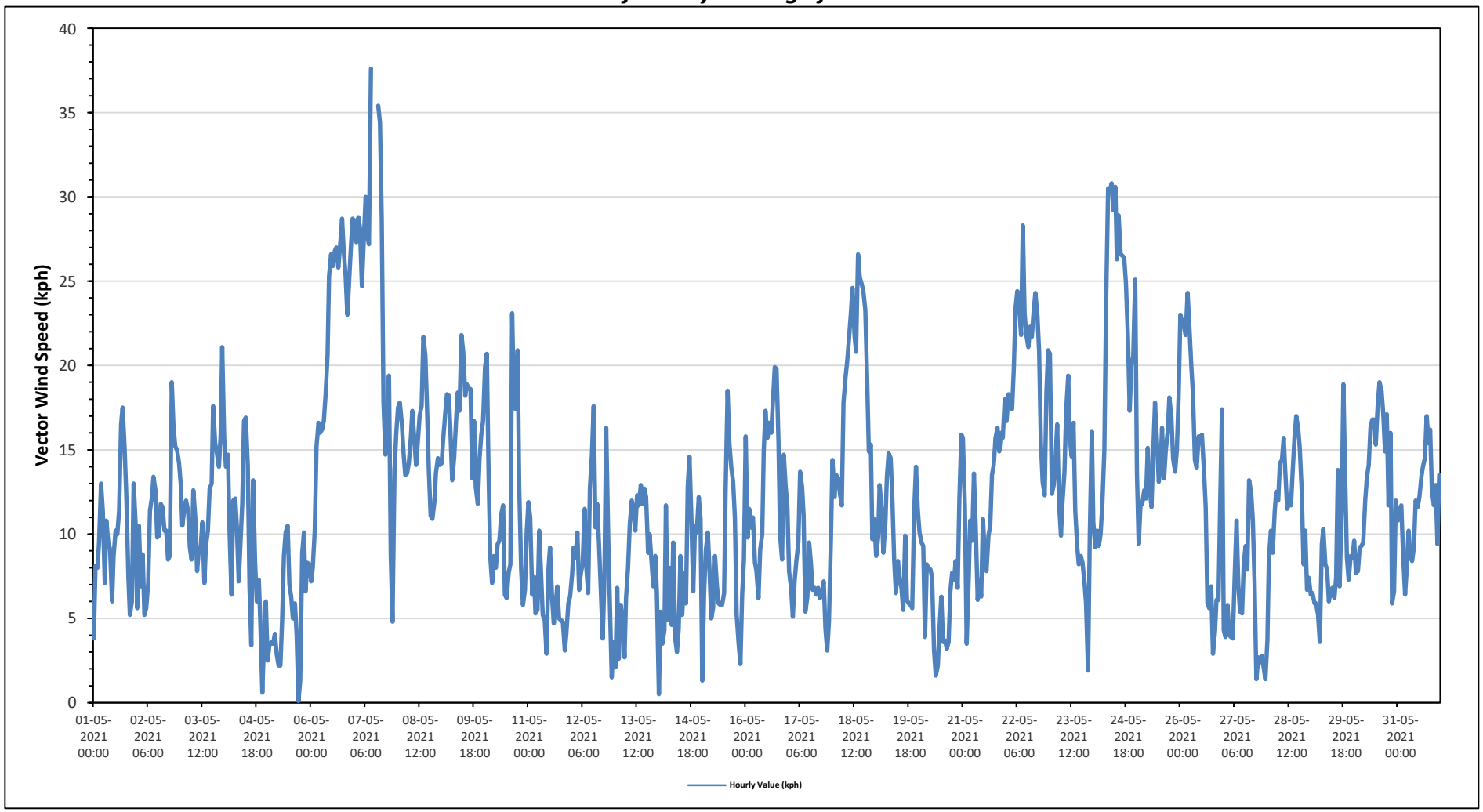
Maximum Hourly Value:	37.6	kph	on May 7 at hour 9	Hours in Service:	744
Maximum Daily Value:	23.1	kph	on May 7	Hours of Data:	741
Minimum Hourly Value:	0.1	kph	on May 5 at hour 17	Hours of Missing Data:	3
Minimum Daily Value:	1.8	kph	on May 5	Hours of Calibration:	0
Monthly Average:	2.8	kph		Operational Uptime:	99.6

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
May 1	3.8	8.1	8.0	9.5	13.0	11.4	7.1	10.8	9.5	9.1	6.0	8.7	10.2	10.0	11.4	16.5	17.5	15.1	12.2	7.4	5.2	6.0	13.0	10.6	3.8	17.5	4.7
May 2	5.6	10.5	6.9	8.8	5.2	5.6	7.1	11.4	12.2	13.4	12.6	9.8	9.9	11.8	11.6	10.2	10.2	8.5	8.7	19.0	16.3	15.2	15.0	14.2	5.2	19.0	8.3
May 3	12.9	10.5	11.5	12.0	11.4	9.2	8.5	12.6	10.9	7.8	9.1	9.2	10.7	7.1	9.3	10.2	12.7	13.0	17.6	15.4	14.8	14.0	15.9	21.1	7.1	21.1	11.6
May 4	15.7	14.0	14.7	10.3	6.4	12.0	12.1	10.6	7.2	9.5	11.8	16.7	16.9	14.1	6.8	3.4	13.2	8.4	6.0	7.3	4.8	0.6	3.8	6.0	0.6	16.9	5.8
May 5	2.5	3.4	3.6	3.5	4.1	2.9	2.2	2.2	4.9	8.7	10.1	10.5	7.0	6.3	5.0	5.9	4.0	**0.1**	1.3	8.9	10.1	6.6	8.3	8.2	**0.1**	10.5	**1.8**
May 6	7.2	8.0	10.2	15.2	16.6	16.0	16.2	16.7	18.2	20.6	25.3	26.6	25.9	26.8	27.0	25.8	27.1	28.7	26.9	25.3	23.0	25.0	27.0	28.7	7.2	28.7	21.1
May 7	28.6	27.3	28.8	28.2	24.7	27.3	30.0	27.7	27.2	**37.6**	**P**	**P**	**P**	35.4	34.4	28.7	17.8	14.7	17.0	19.4	8.8	4.8	13.8	16.0	4.8	**37.6**	**23.1**
May 8	17.5	17.8	16.6	14.8	13.5	13.6	14.2	15.7	17.3	15.6	14.1	15.7	17.0	17.6	21.7	20.6	17.3	13.7	11.1	10.9	11.9	13.6	14.5	14.1	10.9	21.7	14.4
May 9	14.2	15.6	17.1	18.3	18.2	16.0	13.2	14.6	16.6	18.4	17.3	21.8	20.8	18.2	18.9	18.6	18.6	13.3	16.7	12.8	11.8	14.5	15.9	16.7	11.8	21.8	15.7
May 10	19.9	20.7	13.6	8.6	7.1	8.7	8.0	9.4	9.6	11.2	11.7	6.4	6.2	7.7	8.2	23.1	18.1	17.4	20.9	12.9	7.9	5.8	6.7	10.1	5.8	23.1	3.7
May 11	11.9	11.0	6.4	7.5	5.3	5.5	10.2	7.4	5.2	4.9	2.9	8.0	9.2	6.3	4.7	5.8	6.9	5.0	4.9	4.8	3.1	4.1	5.9	6.3	2.9	11.9	4.2
May 12	7.6	9.2	8.6	10.1	6.7	7.7	8.2	11.5	8.0	6.5	12.7	14.7	17.6	10.4	11.8	9.5	6.5	3.8	7.5	16.3	9.8	5.6	1.5	3.6	1.5	17.6	5.8
May 13	2.1	6.8	2.6	5.8	4.9	2.7	6.2	8.0	10.6	12.0	11.4	10.2	12.3	11.7	12.9	11.8	12.7	12.2	8.9	10.0	8.3	6.9	8.7	6.5	2.1	12.9	7.5
May 14	0.5	5.4	3.5	4.3	11.7	4.9	8.0	4.6	9.5	3.8	3.0	4.4	8.7	5.2	7.7	5.9	12.8	14.6	10.8	6.6	10.5	10.1	12.2	10.9	0.5	14.6	2.4
May 15	1.3	6.4	9.0	10.1	7.8	5.0	5.6	8.7	7.0	5.9	5.8	5.8	6.5	12.6	18.5	15.4	13.9	13.1	11.0	5.2	3.5	2.3	6.4	8.5	1.3	18.5	6.6
May 16	15.8	9.8	11.5	10.4	11.0	8.3	7.8	6.2	9.1	10.0	14.9	17.3	15.7	16.6	16.0	17.7	19.9	19.8	15.4	10.0	8.5	14.7	12.9	11.7	6.2	19.9	8.3
May 17	7.8	6.8	5.1	7.2	8.4	9.5	13.7	12.8	11.1	5.4	6.3	9.5	8.3	6.7	6.8	6.4	6.8	6.2	6.4	7.2	4.4	3.1	4.8	9.8	3.1	13.7	4.5
May 18	14.4	12.2	13.5	13.3	12.4	11.7	17.8	19.3	20.3	21.4	23.0	24.6	21.8	20.8	26.6	25.2	24.8	24.4	23.3	19.3	14.9	15.3	9.7	10.9	9.7	26.6	17.9
May 19	8.7	9.8	12.9	11.5	8.9	10.7	13.4	14.8	14.5	12.0	8.5	6.5	8.4	7.3	6.8	5.5	9.9	6.1	5.9	5.8	5.6	11.5	14.0	11.5	5.5	14.8	7.3
May 20	10.1	9.5	9.3	3.9	8.2	7.9	7.9	7.4	3.1	1.6	2.2	4.5	6.3	3.6	3.7	3.2	3.6	6.6	7.7	7.3	8.4	6.8	12.1	15.9	1.6	15.9	3.8
May 21	15.7	11.6	3.5	7.3	10.8	9.6	13.6	10.5	6.1	7.3	6.3	10.9	8.6	7.8	9.9	10.5	13.5	14.1	15.7	16.3	14.9	16.0	15.7	18.0	3.5	18.0	10.7
May 22	16.7	18.3	18.2	17.4	19.8	23.4	24.4	23.6	21.8	28.3	23.1	21.8	21.1	22.3	21.7	23.2	24.3	23.0	20.8	15.4	13.1	12.3	18.4	20.9	12.3	28.3	20.0
May 23	20.7	12.4	12.9	14.3	16.5	11.9	9.9	11.9	13.7	17.4	19.4	15.7	14.6	16.6	11.4	9.2	8.2	8.7	8.3	7.1	5.9	1.9	10.0	16.1	1.9	20.7	8.6
May 24	10.7	9.2	10.2	9.3	10.0	11.8	15.0	23.7	30.5	30.3	30.8	29.2	30.6	26.3	28.9	26.6	26.5	26.4	24.9	21.7	17.3	20.1	20.5	25.1	9.2	30.8	20.6
May 25	13.6	9.4	11.7	11.8	12.6	12.1	15.1	12.8	11.6	14.9	17.8	15.7	13.1	14.0	16.3	13.3	15.0	16.1	18.1	17.0	14.5	13.7	15.0	18.1	9.4	18.1	13.2
May 26	23.0	22.6	22.3	21.8	24.3	22.3	19.9	18.4	14.4	13.9	15.8	15.4	15.9	13.8	11.6	5.9	5.6	6.9	2.9	4.2	6.1	6.1	12.0	17.4	2.9	24.3	11.1
May 27	4.3	3.9	5.8	4.0	3.9	3.8	7.7	10.8	7.0	5.4	5.3	8.3	9.3	7.9	13.2	12.5	10.8	7.1	1.4	2.7	2.4	2.8	2.1	1.4	1.4	13.2	4.2
May 28	3.7	8.6	10.2	8.9	11.3	12.5	12.0	14.2	14.4	15.7	13.8	11.5	11.8	11.7	13.5	15.7	17.0	16.2	15.1	12.5	8.2	10.2	6.7	7.4	3.7	17.0	9.5
May 29	6.4	6.5	5.9	5.9	5.2	3.6	9.4	10.3	8.2	7.9	6.0	6.6	6.8	6.2	7.4	13.8	6.9	11.4	18.9	13.4	8.6	7.3	8.7	8.6	3.6	18.9	7.6
May 30	9.6	7.7	7.8	9.2	9.3	9.5	12.0	13.4	14.1	16.3	16.8	16.8	15.3	17.7	19.0	18.5	17.1	14.9	17.1	11.7	16.0	5.9	6.6	12.0	5.9	19.0	11.9
May 31	10.8	11.4	11.7	8.8	6.4	7.8	10.2	8.6	8.4	9.2	12.0	11.6	12.2	13.4	14.0	14.5	17.0	15.4	16.2	12.5	11.7	12.9	9.4	13.5	6.4	17.0	11.3
Diurnal Maximum	29	27	29	28	25	27	30	28	31	38	31	29	31	35	34	29	27	29	27	25	23	25	27	29			
Diurnal Average	11.1	11.1	10.8	10.7	10.8	10.5	11.8	12.6	12.3	13.0	12.5	13.1	13.3	13.4	14.1	14.0	14.1	13.1	12.9	11.8	10.0	9.5	11.2	12.9			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance	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.

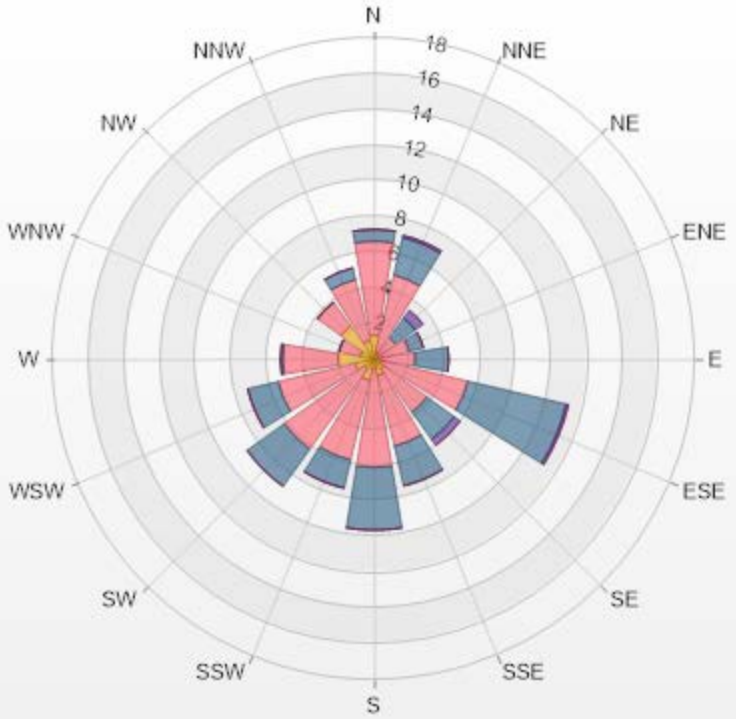
Timeseries Chart of Hourly Average for VWS - 986c Station



Wind: PRAMP 986c Monitor: WDS [KPH] Monthly: 05-2021 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 1.21% Valid Data: 99.60%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.35	5.26	0.67	0	0	7.28
NNE	0.4	4.45	2.16	0.13	0	7.14
NE	0.27	1.21	1.35	0.54	0	3.37
ENE	0.27	1.75	0.81	0	0	2.83
E	0.4	1.89	1.89	0	0	4.18
ESE	0.4	4.99	5.67	0.13	0	11.19
SE	0.67	2.97	1.89	0.4	0	5.93
SSE	0.94	4.05	2.29	0	0	7.28
S	0.54	5.53	3.51	0	0	9.58
SSW	1.21	4.59	1.62	0	0	7.42
SW	0.67	5.53	2.56	0	0	8.76
WSW	1.08	4.45	1.75	0	0	7.28
W	2.02	3.1	0.13	0	0	5.25
WNW	0.81	1.21	0	0	0	2.02
NW	2.29	1.62	0	0	0	3.91
NNW	1.08	3.51	0.67	0	0	5.26
Summary	14.4	56.11	26.97	1.2	0	98.68

PRAMP 986c 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 1.21% Calm Wind Avg Speed: 1.09(KPH)



% Icon Classes (KPH)	14 1.8-6.0	56 6.0-15.0	27 15.0-29.0	1 29.0-39.0	0 >39.0

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PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average: 144 (SE) degree

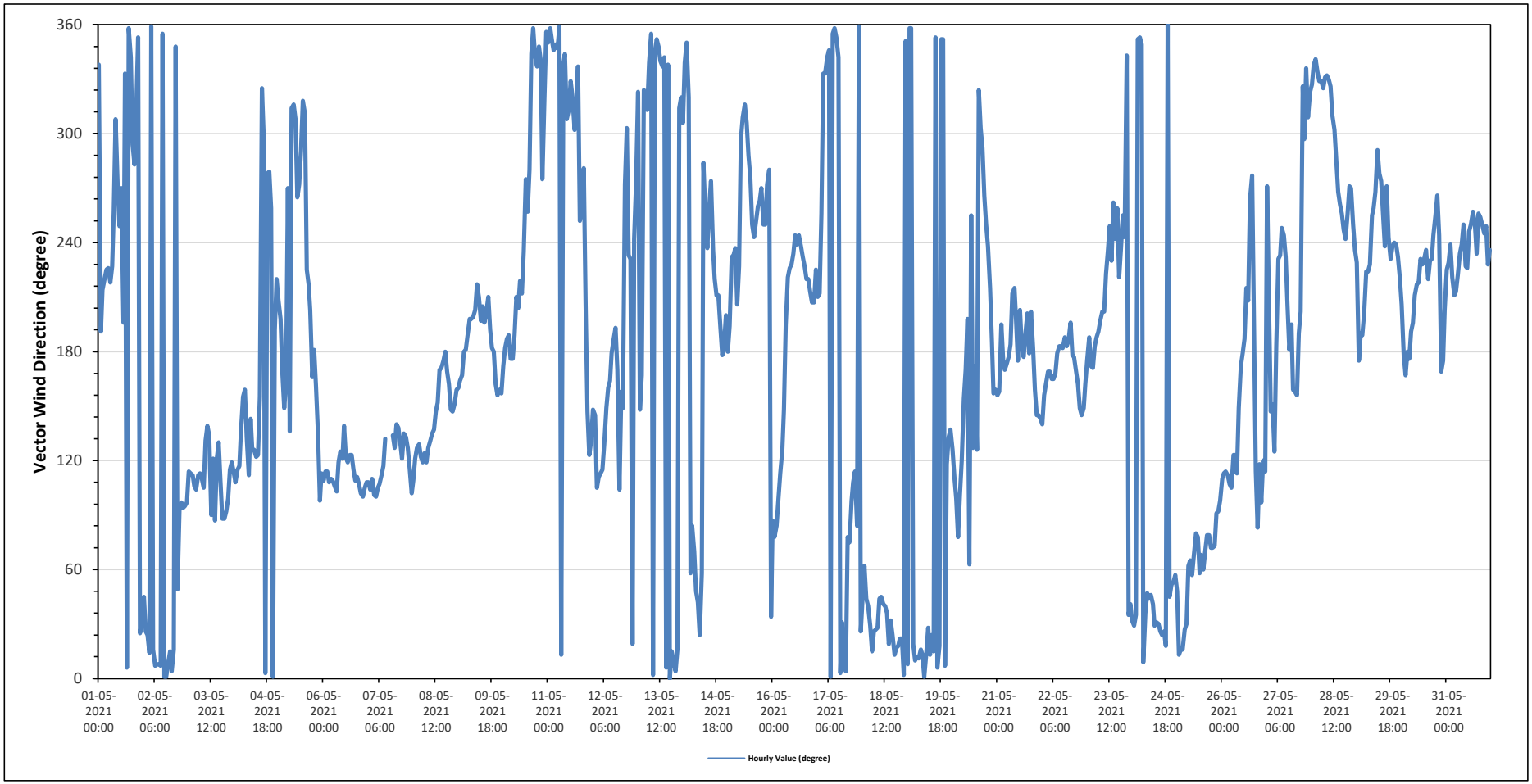
Hours in Service:	744
Hours of Data:	741
Hours of Missing Data:	3
Hours of Calibration:	0
Operational Uptime:	99.6

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
May 1	NNW	S	SSW	SW	SW	SW	SW	SW	WSW	NW	W	WSW	W	SSW	NNW	N	N	NNW	WNW	W	NW	N	NNE	NNE	289	WNW
May 2	NE	NNE	NNE	NNE	N	NNE	N	N	N	N	N	N	N	N	NNE	N	NNE	NNW	NE	E	E	E	E	E	34	NE
May 3	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	E	ESE	E	ESE	SE	ESE	E	E	E	E	ESE	ESE	109	ESE
May 4	ESE	ESE	ESE	ESE	SE	SSE	SSE	SE	ESE	SE	SE	SE	ESE	ESE	SSE	NW	WNW	N	W	W	WSW	N	S	SW	133	SE
May 5	SSW	SSW	SSE	SSE	SSE	W	SE	NW	NW	NW	W	W	WNW	NW	NW	SW	SW	SSW	SSE	S	SSE	SE	E	ESE	221	SW
May 6	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ESE	ESE	114	ESE
May 7	ESE	ESE	ESE	E	E	ESE	ESE	ESE	ESE	SE	P	P	P	SE	SE	SE	SE	SE	ESE	SE	SE	SE	ESE	E	118	ESE
May 8	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSE	SSE	S	S	S	SSE	SSE	SE	SE	SSE	SSE	143	SE
May 9	SSE	SSE	SSE	S	S	S	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	SSE	SSE	SSE	SSE	187	S
May 10	S	S	S	S	S	S	S	SSW	SSW	SW	SSW	SW	W	WSW	W	NNW	N	NNW	NNW	NNW	NNW	W	NW	N	261	W
May 11	N	N	N	NNW	NNW	NNW	N	NNE	NNW	NNW	NW	NW	NNW	NW	WNW	NW	NNW	WSW	WSW	W	SSW	SE	ESE	SE	336	NNW
May 12	SE	SE	ESE	ESE	ESE	ESE	SE	SSE	SSE	SSE	S	S	S	SSE	ESE	SSE	SSE	W	WNW	SW	SW	NNE	WSW	W	164	SSE
May 13	NW	SE	SSE	NW	NW	NW	NNW	N	N	NNW	N	NNW	NNW	NNW	NNW	N	NNW	N	NNE	N	N	NNE	NW	NW	349	NNW
May 14	NW	NNW	N	NW	ENE	E	ENE	NE	NE	NNE	ENE	WNW	WSW	SW	WSW	W	SW	SW	SSW	SSW	S	S	S	SSW	219	SW
May 15	S	SSW	SW	SW	SW	SSW	SW	WNW	NW	NW	NW	WNW	W	WSW	WSW	WSW	WSW	W	W	WSW	WSW	W	W	NE	259	WSW
May 16	E	ENE	E	E	ESE	SE	SE	SSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SW	211	SSW
May 17	SSW	SSW	WSW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	N	NNE	NNE	N	ENE	ENE	E	ESE	ESE	E	N	NNE	7	N
May 18	NE	ENE	NE	NE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	29	NNE
May 19	N	N	N	NNE	N	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	N	N	NNE	N	N	N	ESE	SE	SE	20	NNE
May 20	SE	ESE	E	ENE	E	ESE	SSE	SSE	SSW	ENE	WSW	SE	S	SE	NW	WNW	WNW	W	WSW	SW	SSW	S	SSE	SSE	159	SSE
May 21	SSE	SSE	SSW	S	SSE	S	S	S	SSW	SSW	SSW	S	SSW	S	S	S	SSW	S	SSW	S	SSE	SE	SE	SE	175	S
May 22	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	SSW	S	S	SSE	SSE	SSE	SE	SSE	SSE	171	S
May 23	S	S	S	S	S	S	S	SSW	SSW	SSW	SW	SW	WSW	SW	W	WSW	WSW	SW	SW	WSW	WSW	NNW	NE	NE	210	SSW
May 24	NNE	NNE	NE	N	N	NNW	N	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NE	NE	NE	ENE	32	NNE
May 25	NE	NNE	NNE	NNE	NNE	NNE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	65	ENE
May 26	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SSE	S	S	S	SSW	SSW	W	W	SSW	ESE	E	ESE	E	ESE	ESE	132	SE
May 27	W	SSW	SE	SSE	SE	S	SW	SW	WSW	WSW	SW	SSW	S	SSW	SSE	SSE	SSE	S	SSW	NW	WNW	NNW	NW	NW	197	SSW
May 28	NW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NW	NW	WNW	WNW	W	W	WSW	WSW	WSW	WSW	W	W	WSW	SW	295	WNW
May 29	SW	S	S	S	SSW	SW	SW	SW	WSW	WSW	W	WNW	W	W	WSW	SW	W	WSW	SW	SW	WSW	WSW	SW	SW	238	SW
May 30	SSW	S	SSE	S	S	S	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	W	WSW	SSE	S	SSW	220	SW
May 31	SW	SW	WSW	SW	SSW	SSW	SW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	239	WSW

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 - 986c Station



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PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	37.6	kph	on May 7 at hour 9	Hours in Service:	744
Maximum Daily Value:	23.1	kph	on May 7	Hours of Data:	741
Minimum Hourly Value:	0.1	kph	on May 5 at hour 17	Hours of Missing Data:	3
Minimum Daily Value:	1.8	kph	on May 5	Hours of Calibration:	0
Monthly Average:	2.8	kph		Operational Uptime:	99.6

WIND DIRECTION

Monthly Average: 144 (SE) degree

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
May 1	3.8	8.1	8.0	9.5	13.0	11.4	7.1	10.8	9.5	9.1	6.0	8.7	10.2	10.0	11.4	16.5	17.5	15.1	12.2	7.4	5.2	6.0	13.0	10.6	3.8	17.5	4.7
	NNW	S	SSW	SW	SW	SW	SW	SW	WSW	NW	W	WSW	W	SSW	NNW	N	N	NNW	WNW	W	NW	N	NNE	NNE			
May 2	5.6	10.5	6.9	8.8	5.2	5.6	7.1	11.4	12.2	13.4	12.6	9.8	9.9	11.8	11.6	10.2	10.2	8.5	8.7	19.0	16.3	15.2	15.0	14.2	5.2	19.0	8.3
	NE	NNE	NNE	NNE	N	NNE	N	N	N	N	N	N	N	N	NNE	N	NNE	NNW	NE	E	E	E	E	E			
May 3	12.9	10.5	11.5	12.0	11.4	9.2	8.5	12.6	10.9	7.8	9.1	9.2	10.7	7.1	9.3	10.2	12.7	13.0	17.6	15.4	14.8	14.0	15.9	21.1	7.1	21.1	11.6
	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	E	ESE	E	ESE	SE	ESE	E	E	E	E	ESE	ESE			
May 4	15.7	14.0	14.7	10.3	6.4	12.0	12.1	10.6	7.2	9.5	11.8	16.7	16.9	14.1	6.8	3.4	13.2	8.4	6.0	7.3	4.8	0.6	3.8	6.0	0.6	16.9	5.8
	ESE	ESE	ESE	ESE	SE	SSE	SSE	SE	ESE	SE	SE	SE	ESE	ESE	SSE	NW	WNW	N	W	W	WSW	N	S	SW			
May 5	2.5	3.4	3.6	3.5	4.1	2.9	2.2	2.2	4.9	8.7	10.1	10.5	7.0	6.3	5.0	5.9	4.0	**0.1**	1.3	8.9	10.1	6.6	8.3	8.2	**0.1**	10.5	**1.8**
	SSW	SSW	SSE	SSE	SSE	W	SE	NW	NW	NW	W	W	WNW	NW	NW	SW	SW	SSW	SSE	S	SSE	SE	E	ESE			
May 6	7.2	8.0	10.2	15.2	16.6	16.0	16.2	16.7	18.2	20.6	25.3	26.6	25.9	26.8	27.0	25.8	27.1	28.7	26.9	25.3	23.0	25.0	27.0	28.7	7.2	28.7	21.1
	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	ESE	ESE			
May 7	28.6	27.3	28.8	28.2	24.7	27.3	30.0	27.7	27.2	**37.6**	**P**	**P**	**P**	35.4	34.4	28.7	17.8	14.7	17.0	19.4	8.8	4.8	13.8	16.0	4.8	**37.6**	**23.1**
	ESE	ESE	ESE	E	E	ESE	ESE	ESE	ESE	SE	**P**	**P**	**P**	SE	SE	SE	SE	SE	ESE	SE	SE	SE	ESE	E			
May 8	17.5	17.8	16.6	14.8	13.5	13.6	14.2	15.7	17.3	15.6	14.1	15.7	17.0	17.6	21.7	20.6	17.3	13.7	11.1	10.9	11.9	13.6	14.5	14.1	10.9	21.7	14.4
	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSE	SSE	S	S	S	SSE	SSE	SE	SE	SSE	SSE			
May 9	14.2	15.6	17.1	18.3	18.2	16.0	13.2	14.6	16.6	18.4	17.3	21.8	20.8	18.2	18.9	18.6	18.6	13.3	16.7	12.8	11.8	14.5	15.9	16.7	11.8	21.8	15.7
	SSE	SSE	SSE	S	S	S	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	SSE	SSE	SSE	SSE			
May 10	19.9	20.7	13.6	8.6	7.1	8.7	8.0	9.4	9.6	11.2	11.7	6.4	6.2	7.7	8.2	23.1	18.1	17.4	20.9	12.9	7.9	5.8	6.7	10.1	5.8	23.1	3.7
	S	S	S	S	S	S	S	SSW	SSW	SW	SSW	SW	W	WSW	W	NNW	N	NNW	NNW	NNW	W	NW	N				
May 11	11.9	11.0	6.4	7.5	5.3	5.5	10.2	7.4	5.2	4.9	2.9	8.0	9.2	6.3	4.7	5.8	6.9	5.0	4.9	4.8	3.1	4.1	5.9	6.3	2.9	11.9	4.2
	N	N	N	NNW	NNW	NNW	N	NNE	NNW	NNW	NW	NW	NNW	NW	WNW	NW	NNW	WSW	WSW	W	SSW	SE	ESE	SE			
May 12	7.6	9.2	8.6	10.1	6.7	7.7	8.2	11.5	8.0	6.5	12.7	14.7	17.6	10.4	11.8	9.5	6.5	3.8	7.5	16.3	9.8	5.6	1.5	3.6	1.5	17.6	5.8
	SE	SE	ESE	ESE	ESE	ESE	SE	SSE	SSE	SSE	S	S	S	SSE	ESE	SSE	SSE	W	WNW	SW	SW	NNE	WSW	W			
May 13	2.1	6.8	2.6	5.8	4.9	2.7	6.2	8.0	10.6	12.0	11.4	10.2	12.3	11.7	12.9	11.8	12.7	12.2	8.9	10.0	8.3	6.9	8.7	6.5	2.1	12.9	7.5
	NW	SE	SSE	NW	NW	NW	NNW	N	N	NNW	N	NNW	NNW	NNW	NNW	N	NNW	N	NNE	N	N	NNE	NW	NW			
May 14	0.5	5.4	3.5	4.3	11.7	4.9	8.0	4.6	9.5	3.8	3.0	4.4	8.7	5.2	7.7	5.9	12.8	14.6	10.8	6.6	10.5	10.1	12.2	10.9	0.5	14.6	2.4
	NW	NNW	N	NW	ENE	E	ENE	NE	NE	NNE	ENE	WNW	WSW	SW	WSW	W	SW	SW	SSW	SSW	S	S	S	SSW			
May 15	1.3	6.4	9.0	10.1	7.8	5.0	5.6	8.7	7.0	5.9	5.8	5.8	6.5	12.6	18.5	15.4	13.9	13.1	11.0	5.2	3.5	2.3	6.4	8.5	1.3	18.5	6.6
	S	SSW	SW	SW	SW	SSW	SW	WNW	NW	NW	NW	WNW	W	WSW	WSW	WSW	WSW	W	W	WSW	WSW	W	W	NE			
May 16	15.8	9.8	11.5	10.4	11.0	8.3	7.8	6.2	9.1	10.0	14.9	17.3	15.7	16.6	16.0	17.7	19.9	19.8	15.4	10.0	8.5	14.7	12.9	11.7	6.2	19.9	8.3
	E	ENE	E	E	ESE	SE	SE	SSW	SW	SW	SW	SW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SW			
May 17	7.8	6.8	5.1	7.2	8.4	9.5	13.7	12.8	11.1	5.4	6.3	9.5	8.3	6.7	6.8	6.4	6.8	6.2	6.4	7.2	4.4	3.1	4.8	9.8	3.1	13.7	4.5
	SSW	SSW	WSW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	N	NNE	NNE	N	ENE	ENE	E	ESE	ESE	E	N	NNE			
May 18	14.4	12.2	13.5	13.3	12.4	11.7	17.8	19.3	20.3	21.4	23.0	24.6	21.8	20.8	26.6	25.2	24.8	24.4	23.3	19.3	14.9	15.3	9.7	10.9	9.7	26.6	17.9
	NE	ENE	NE	NE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N			
May 19	8.7	9.8	12.9	11.5	8.9	10.7	13.4	14.8	14.5	12.0	8.5	6.5	8.4	7.3	6.8	5.5	9.9	6.1	5.9	5.8	5.6	11.5	14.0	11.5	5.5	14.8	7.3
	N	N	N	NNE	N	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	NNE	N	N	NNE	N	N	N	ESE	SE	SE			
May 20	10.1	9.5	9.3	3.9	8.2	7.9	7.9	7.4	3.1	1.6	2.2	4.5	6.3	3.6	3.7	3.2	3.6	6.6	7.7	7.3	8.4	6.8	12.1	15.9	1.6	15.9	3.8
	SE	ESE	E	ENE	E	ESE	SSE	SSE	SSW	ENE	WSW	SE	S	SE	NW	WNW	WNW	W	WSW	SW	SSW	S	SSE	SSE			

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PEACE RIVER AREA MONITORING PROGRAM

986c Station - May 2021

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	37.6	kph	on May 7 at hour 9	Hours in Service:	744
Maximum Daily Value:	23.1	kph	on May 7	Hours of Data:	741
Minimum Hourly Value:	0.1	kph	on May 5 at hour 17	Hours of Missing Data:	3
Minimum Daily Value:	1.8	kph	on May 5	Hours of Calibration:	0
Monthly Average:	2.8	kph		Operational Uptime:	99.6

WIND DIRECTION

Monthly Average: 144 (SE) 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			
May 21	15.7	11.6	3.5	7.3	10.8	9.6	13.6	10.5	6.1	7.3	6.3	10.9	8.6	7.8	9.9	10.5	13.5	14.1	15.7	16.3	14.9	16.0	15.7	18.0	3.5	18.0	10.7
	SSE	SSE	SSW	S	SSE	S	S	S	SSW	SSW	SSW	S	SSW	S	S	S	SSW	S	SSW	S	SSE	SE	SE	SE			
May 22	16.7	18.3	18.2	17.4	19.8	23.4	24.4	23.6	21.8	28.3	23.1	21.8	21.1	22.3	21.7	23.2	24.3	23.0	20.8	15.4	13.1	12.3	18.4	20.9	12.3	28.3	20.0
	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	SSW	S	S	SSE	SSE	SSE	SE	SSE	SSE			
May 23	20.7	12.4	12.9	14.3	16.5	11.9	9.9	11.9	13.7	17.4	19.4	15.7	14.6	16.6	11.4	9.2	8.2	8.7	8.3	7.1	5.9	1.9	10.0	16.1	1.9	20.7	8.6
	S	S	S	S	S	S	S	SSW	SSW	SSW	SW	SW	WSW	SW	W	WSW	WSW	SW	SW	WSW	WSW	NNW	NE	NE			
May 24	10.7	9.2	10.2	9.3	10.0	11.8	15.0	23.7	30.5	30.3	30.8	29.2	30.6	26.3	28.9	26.6	26.5	26.4	24.9	21.7	17.3	20.1	20.5	25.1	9.2	30.8	20.6
	NNE	NNE	NE	N	N	NNW	N	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	NE	NE	NE	ENE			
May 25	13.6	9.4	11.7	11.8	12.6	12.1	15.1	12.8	11.6	14.9	17.8	15.7	13.1	14.0	16.3	13.3	15.0	16.1	18.1	17.0	14.5	13.7	15.0	18.1	9.4	18.1	13.2
	NE	NNE	NNE	NNE	NNE	NNE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E			
May 26	23.0	22.6	22.3	21.8	24.3	22.3	19.9	18.4	14.4	13.9	15.8	15.4	15.9	13.8	11.6	5.9	5.6	6.9	2.9	4.2	6.1	6.1	12.0	17.4	2.9	24.3	11.1
	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SSE	S	S	S	SSW	SSW	W	W	SSW	ESE	E	ESE	E	ESE	ESE			
May 27	4.3	3.9	5.8	4.0	3.9	3.8	7.7	10.8	7.0	5.4	5.3	8.3	9.3	7.9	13.2	12.5	10.8	7.1	1.4	2.7	2.4	2.8	2.1	1.4	1.4	13.2	4.2
	W	SSW	SE	SSE	SE	S	SW	SW	WSW	WSW	SW	SSW	S	SSW	SSE	SSE	SSE	S	SSW	NW	WNW	NNW	NW	NW			
May 28	3.7	8.6	10.2	8.9	11.3	12.5	12.0	14.2	14.4	15.7	13.8	11.5	11.8	11.7	13.5	15.7	17.0	16.2	15.1	12.5	8.2	10.2	6.7	7.4	3.7	17.0	9.5
	NW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NW	NW	WNW	WNW	W	W	WSW	WSW	WSW	WSW	W	W	WSW	SW			
May 29	6.4	6.5	5.9	5.9	5.2	3.6	9.4	10.3	8.2	7.9	6.0	6.6	6.8	6.2	7.4	13.8	6.9	11.4	18.9	13.4	8.6	7.3	8.7	8.6	3.6	18.9	7.6
	SW	S	S	S	SSW	SW	SW	SW	WSW	WSW	W	WNW	W	W	WSW	SW	W	WSW	SW	SW	WSW	WSW	SW	SW			
May 30	9.6	7.7	7.8	9.2	9.3	9.5	12.0	13.4	14.1	16.3	16.8	16.8	15.3	17.7	19.0	18.5	17.1	14.9	17.1	11.7	16.0	5.9	6.6	12.0	5.9	19.0	11.9
	SSW	S	SSE	S	S	S	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	W	WSW	SSE	S	SSW			
May 31	10.8	11.4	11.7	8.8	6.4	7.8	10.2	8.6	8.4	9.2	12.0	11.6	12.2	13.4	14.0	14.5	17.0	15.4	16.2	12.5	11.7	12.9	9.4	13.5	6.4	17.0	11.3
	SW	SW	WSW	SW	SSW	SSW	SW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW			

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.

842b STATION

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PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) 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

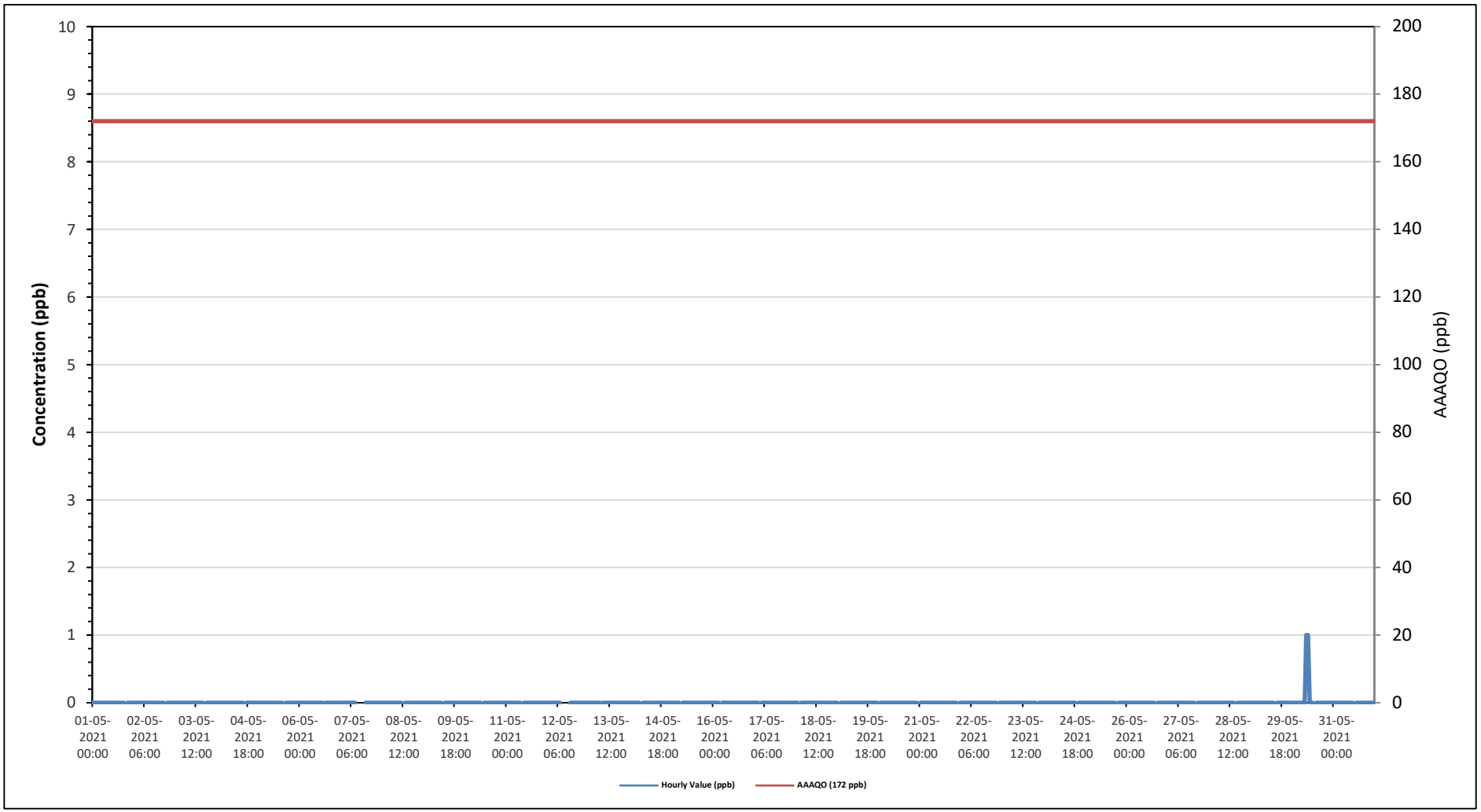
Maximum Hourly Value:	1	ppb	on May 30 at hour 8	Hours in Service:	744
Maximum Daily Value:	0.1	ppb	on May 30	Hours of Data:	704
Minimum Hourly Value:	0	ppb	on May 1 at hour 0	Hours of Missing Data:	4
Minimum Daily Value:	0.0	ppb	on May 1	Hours of Calibration:	36
Monthly Average:	0.0	ppb		Operational Uptime:	99.5

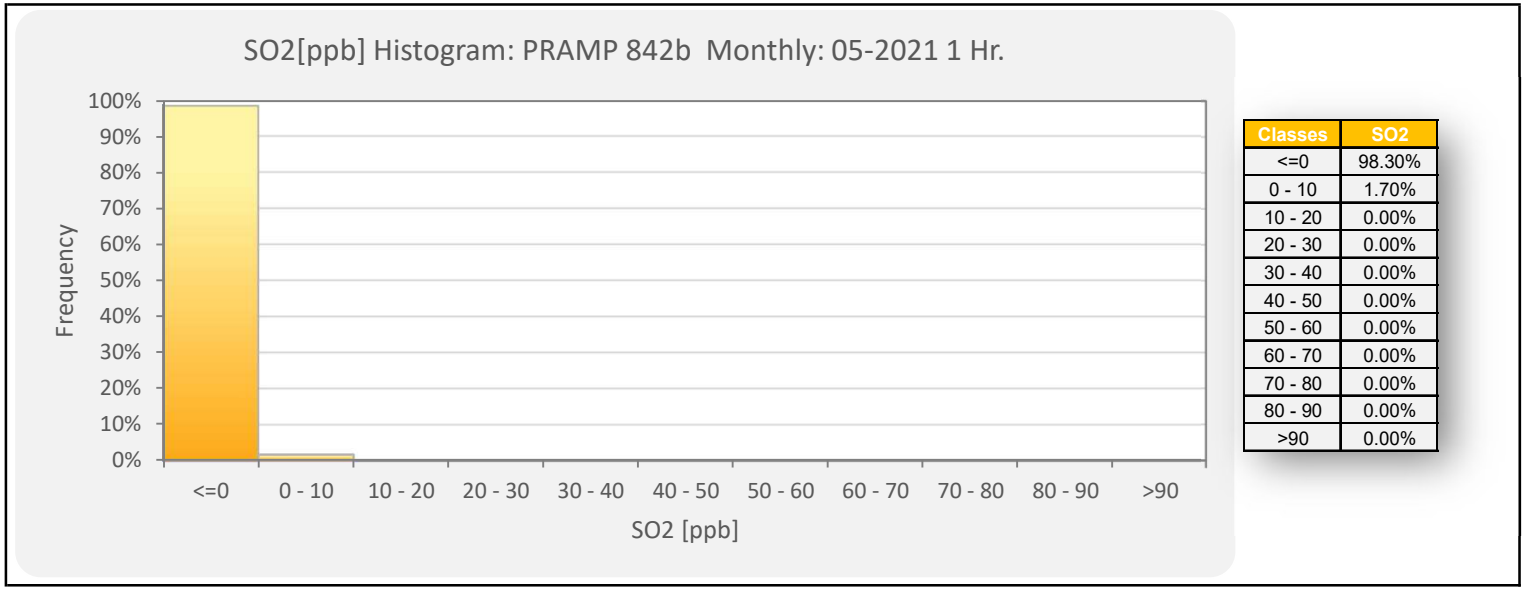
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
May 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0.0
May 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0.0
May 4	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
May 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	0.0
May 6	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
May 7	0	0	0	0	0	0	0	0	0	P	P	P	P	S	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 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	0.0
May 9	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
May 10	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
May 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	0.0
May 12	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 13	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
May 14	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
May 15	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
May 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	0.0
May 17	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
May 18	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
May 19	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
May 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	0.0
May 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	0.0
May 22	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
May 23	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
May 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	0.0
May 25	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
May 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	0.0
May 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	0.0
May 28	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
May 29	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
May 30	0	0	0	0	0	0	0	0	1	1	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0.1
May 31	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
Diurnal Maximum	0	0	0	0	0	0	0	0	1	1	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			

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

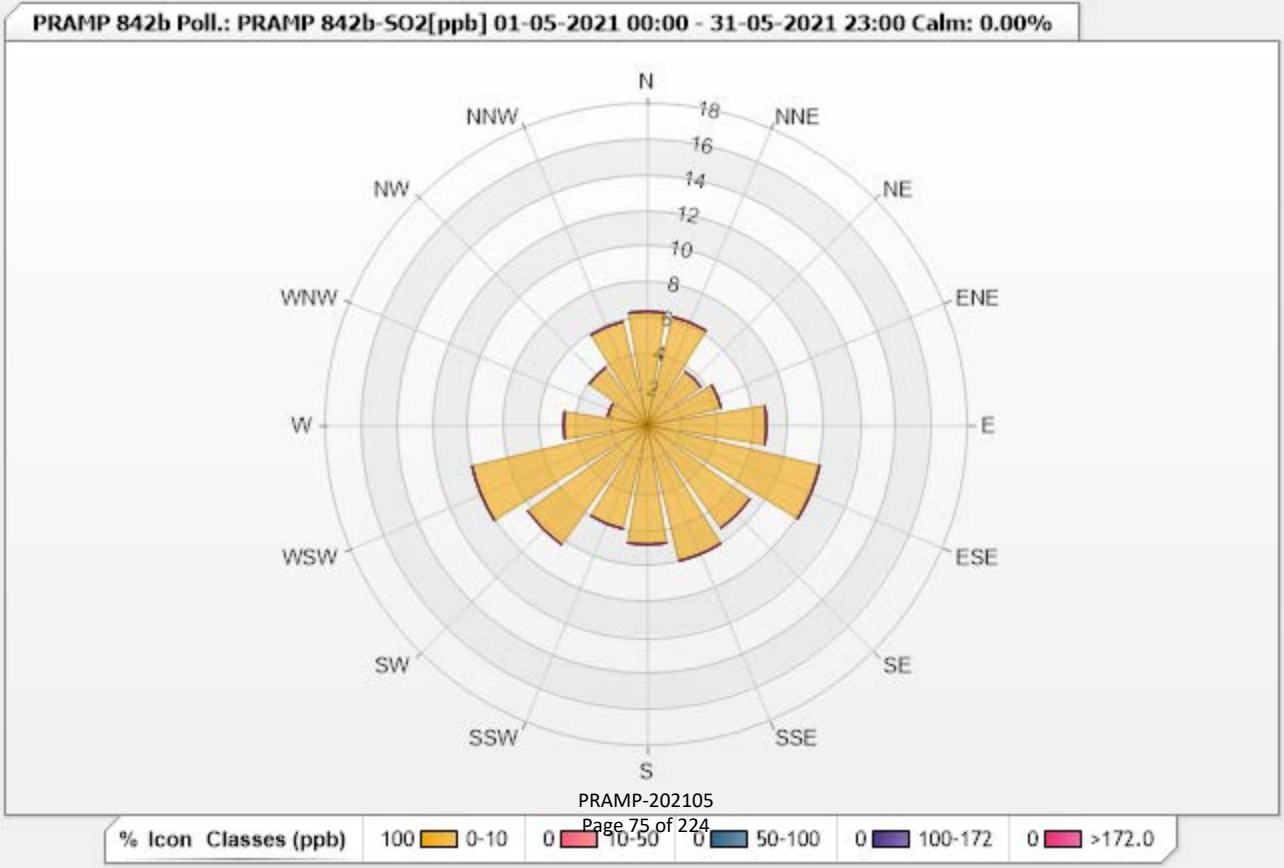




Classes	SO2
<=0	98.30%
0 - 10	1.70%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-SO2[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.62% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	6.39	0	0	0	0	6.39
NNE	6.25	0	0	0	0	6.25
NE	3.69	0	0	0	0	3.69
ENE	4.26	0	0	0	0	4.26
E	6.68	0	0	0	0	6.68
ESE	9.94	0	0	0	0	9.94
SE	7.1	0	0	0	0	7.1
SSE	7.81	0	0	0	0	7.81
S	6.68	0	0	0	0	6.68
SSW	5.97	0	0	0	0	5.97
SW	8.24	0	0	0	0	8.24
WSW	10.09	0	0	0	0	10.09
W	4.69	0	0	0	0	4.69
WNW	2.27	0	0	0	0	2.27
NW	3.98	0	0	0	0	3.98
NNW	5.97	0	0	0	0	5.97
Summary	100	0	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-SO2[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppb)
100 0-10
0 10-50
0 50-100
0 100-172
0 >172.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

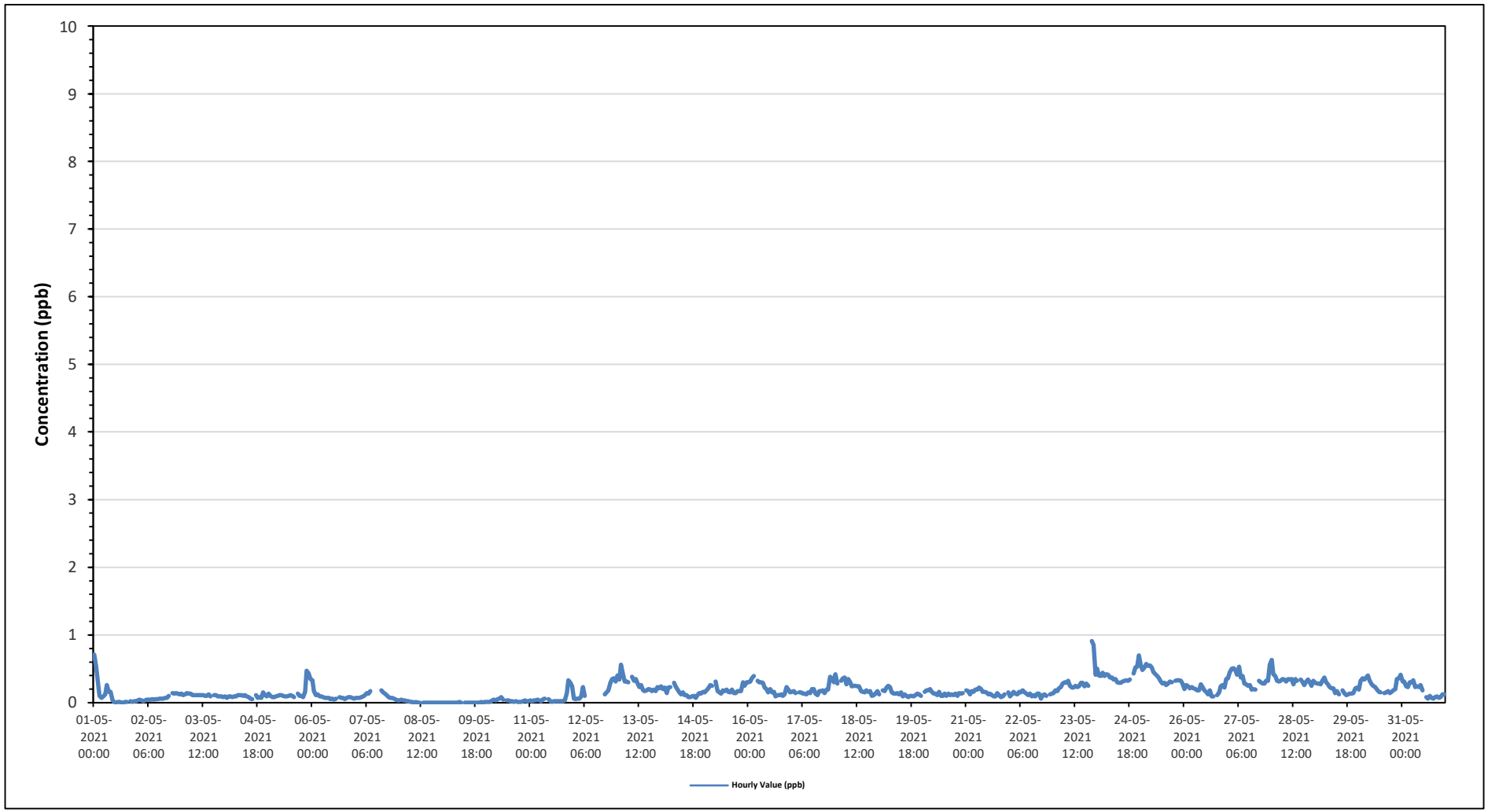
Maximum Hourly Value:	0.91	ppb	on May 23 at hour 21	Hours in Service:	744
Maximum Daily Value:	0.39	ppb	on May 24	Hours of Data:	700
Minimum Hourly Value:	0.00	ppb	on May 1 at hour 12	Hours of Missing Data:	6
Minimum Daily Value:	0.00	ppb	on May 9	Hours of Calibration:	38
Monthly Average:	0.17	ppb		Operational Uptime:	99.2

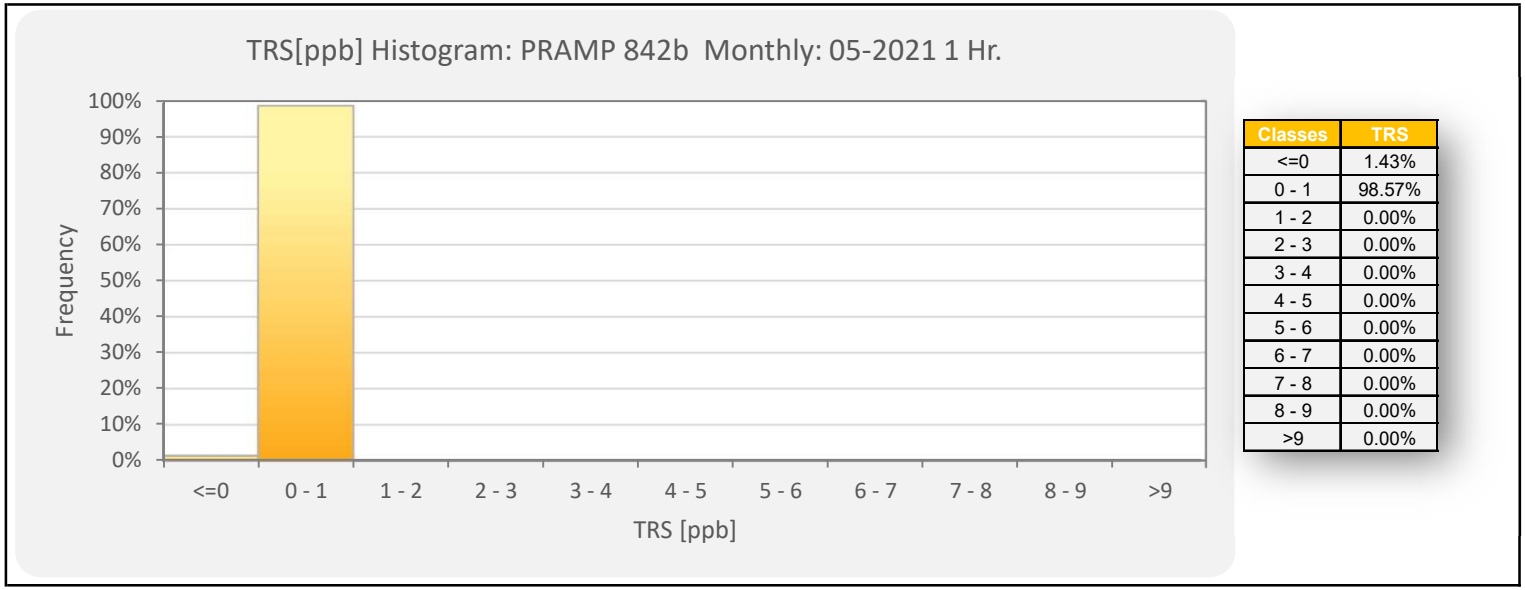
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0.71	0.55	0.29	0.1	0.07	0.09	0.12	0.26	0.16	0.16	0.03	0.01	0	0.01	0.01	0	0	0.01	0.01	S	0.02	0.01	0.02	0.02	**0.00**	0.71	0.12
May 2	0.03	0.04	0.03	0.02	0.03	0.04	0.04	0.04	0.05	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.1	S	0.14	0.13	0.14	0.13	0.12	0.02	0.14	0.07
May 3	0.13	0.11	0.12	0.14	0.13	0.13	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.1	0.1	0.12	0.09	S	0.11	0.11	0.09	0.09	0.09	0.08	0.08	0.14	0.11
May 4	0.09	0.07	0.09	0.09	0.08	0.09	0.09	0.11	0.11	0.11	0.1	0.11	0.09	0.08	0.06	0.05	S	0.11	0.07	0.08	0.07	0.15	0.11	0.09	0.05	0.15	0.09
May 5	0.13	0.1	0.08	0.08	0.09	0.1	0.11	0.11	0.1	0.09	0.09	0.1	0.11	0.1	0.08	S	0.13	0.1	0.1	0.08	0.16	0.47	0.43	0.35	0.08	0.47	0.14
May 6	0.33	0.17	0.11	0.12	0.09	0.09	0.08	0.07	0.07	0.07	0.05	0.06	0.04	0.06	S	0.08	0.07	0.07	0.05	0.07	0.08	0.08	0.07	0.06	0.04	0.33	0.09
May 7	0.07	0.07	0.07	0.08	0.09	0.11	0.14	0.13	0.17	P	P	P	P	S	0.18	0.15	0.13	0.11	0.08	0.07	0.07	0.06	0.04	0.03	0.03	0.18	0.10
May 8	0.03	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0	0.01	0	0	S	0	0	0	0	0	0	0	0	0	0	0	**0.00**	0.04	0.01
May 9	0	0	0	0	0	0	0	0	0	0.01	0	S	0	0	0	0	0	0	0	0	0	0.01	0	0.01	**0.00**	0.01	0.00
May 10	0.01	0.01	0.01	0.03	0.04	0.03	0.05	0.06	0.08	0.04	S	0.03	0.03	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.02	0.03	0.02	0.02	0.01	0.08	0.03
May 11	0.03	0.02	0.03	0.03	0.04	0.03	0.02	0.05	0.06	S	0.05	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.14	0.33	0.29	0.24	0.01	0.33	0.07
May 12	0.06	0.05	0.06	0.06	0.09	0.23	0.1	C	C	C	Y	Y	C	C	C	0.19	S	0.12	0.15	0.18	0.29	0.35	0.36	0.31	0.05	0.36	-
May 13	0.4	0.34	0.56	0.42	0.31	0.31	0.3	S	0.38	0.32	0.35	0.29	0.23	0.26	0.18	0.17	0.18	0.2	0.19	0.17	0.19	0.17	0.23	0.21	0.17	0.56	0.28
May 14	0.24	0.2	0.22	0.14	0.22	0.23	S	0.29	0.24	0.19	0.15	0.12	0.15	0.11	0.11	0.08	0.08	0.09	0.1	0.07	0.11	0.14	0.13	0.16	0.07	0.29	0.16
May 15	0.15	0.18	0.21	0.26	0.25	S	0.31	0.17	0.15	0.13	0.18	0.17	0.19	0.16	0.15	0.19	0.14	0.14	0.17	0.17	0.17	0.3	0.25	0.3	0.13	0.31	0.20
May 16	0.3	0.31	0.36	0.39	S	0.32	0.3	0.3	0.29	0.22	0.2	0.15	0.2	0.15	0.16	0.09	0.11	0.11	0.12	0.1	0.12	0.23	0.19	0.15	0.09	0.39	0.21
May 17	0.16	0.17	0.14	S	0.15	0.15	0.13	0.13	0.12	0.15	0.14	0.2	0.2	0.13	0.11	0.17	0.17	0.18	0.14	0.19	0.19	0.38	0.36	0.3	0.11	0.38	0.18
May 18	0.42	0.28	S	0.32	0.36	0.37	0.27	0.35	0.3	0.24	0.25	0.25	0.24	0.24	0.17	0.16	0.15	0.18	0.16	0.17	0.1	0.11	0.13	0.17	0.10	0.42	0.23
May 19	0.12	S	0.18	0.17	0.22	0.25	0.23	0.15	0.13	0.13	0.14	0.12	0.15	0.09	0.12	0.1	0.08	0.1	0.1	0.09	0.11	0.13	0.12	0.1	0.08	0.25	0.14
May 20	S	0.16	0.18	0.18	0.2	0.16	0.13	0.13	0.11	0.16	0.1	0.1	0.13	0.1	0.13	0.11	0.12	0.11	0.13	0.1	0.14	0.13	0.14	S	0.10	0.20	0.13
May 21	0.18	0.17	0.12	0.17	0.16	0.19	0.19	0.22	0.2	0.16	0.16	0.15	0.12	0.13	0.11	0.09	0.09	0.14	0.11	0.08	0.09	0.12	S	0.15	0.08	0.22	0.14
May 22	0.09	0.12	0.16	0.13	0.12	0.16	0.15	0.18	0.15	0.13	0.11	0.13	0.09	0.11	0.09	0.13	0.13	0.06	0.11	0.12	0.1	S	0.12	0.13	0.06	0.18	0.12
May 23	0.14	0.18	0.17	0.21	0.23	0.28	0.3	0.29	0.32	0.25	0.22	0.22	0.25	0.23	0.24	0.29	0.29	0.24	0.28	0.25	S	**0.91**	0.85	0.41	0.14	**0.91**	0.31
May 24	0.5	0.4	0.39	0.44	0.39	0.42	0.41	0.37	0.37	0.34	0.35	0.3	0.29	0.29	0.31	0.32	0.33	0.32	0.34	S	0.43	0.52	0.53	0.7	0.29	0.70	**0.39**
May 25	0.54	0.48	0.52	0.57	0.54	0.55	0.52	0.45	0.42	0.39	0.36	0.31	0.28	0.29	0.26	0.28	0.31	0.3	S	0.32	0.33	0.33	0.32	0.28	0.26	0.57	0.39
May 26	0.2	0.26	0.24	0.21	0.23	0.21	0.2	0.18	0.18	0.27	0.23	0.18	0.16	0.12	0.18	0.09	0.09	S	0.11	0.15	0.24	0.26	0.22	0.35	0.09	0.35	0.20
May 27	0.36	0.45	0.5	0.51	0.48	0.41	0.53	0.37	0.39	0.28	0.27	0.25	0.26	0.19	0.2	0.19	S	0.32	0.3	0.28	0.28	0.32	0.32	0.56	0.19	0.56	0.35
May 28	0.63	0.42	0.39	0.32	0.31	0.32	0.35	0.34	0.31	0.35	0.34	0.35	0.27	0.35	0.32	S	0.34	0.3	0.26	0.31	0.34	0.3	0.25	0.32	0.25	0.63	0.34
May 29	0.29	0.28	0.28	0.27	0.33	0.37	0.3	0.27	0.23	0.21	0.21	0.14	0.17	0.12	S	0.18	0.14	0.11	0.12	0.13	0.13	0.14	0.21	0.22	0.11	0.37	0.21
May 30	0.19	0.32	0.36	0.34	0.37	0.4	0.32	0.27	0.25	0.23	0.19	0.16	0.15	S	0.14	0.15	0.17	0.14	0.16	0.18	0.2	0.35	0.36	0.41	0.14	0.41	0.25
May 31	0.31	0.31	0.24	0.23	0.3	0.3	0.33	0.23	0.24	0.23	0.26	0.18	S	0.08	0.06	0.1	0.07	0.06	0.08	0.09	0.07	0.08	0.12	0.12	0.06	0.33	0.18
Diurnal Maximum	0.71	0.55	0.56	0.57	0.54	0.55	0.53	0.45	0.42	0.39	0.36	0.35	0.29	0.35	0.32	0.32	0.34	0.32	0.34	0.32	0.43	0.91	0.85	0.70			
Diurnal Average	0.23	0.21	0.20	0.20	0.20	0.21	0.20	0.19	0.19	0.18	0.17	0.15	0.15	0.13	0.13	0.12	0.13	0.13	0.12	0.13	0.15	0.22	0.21	0.21			

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 - 842b Station

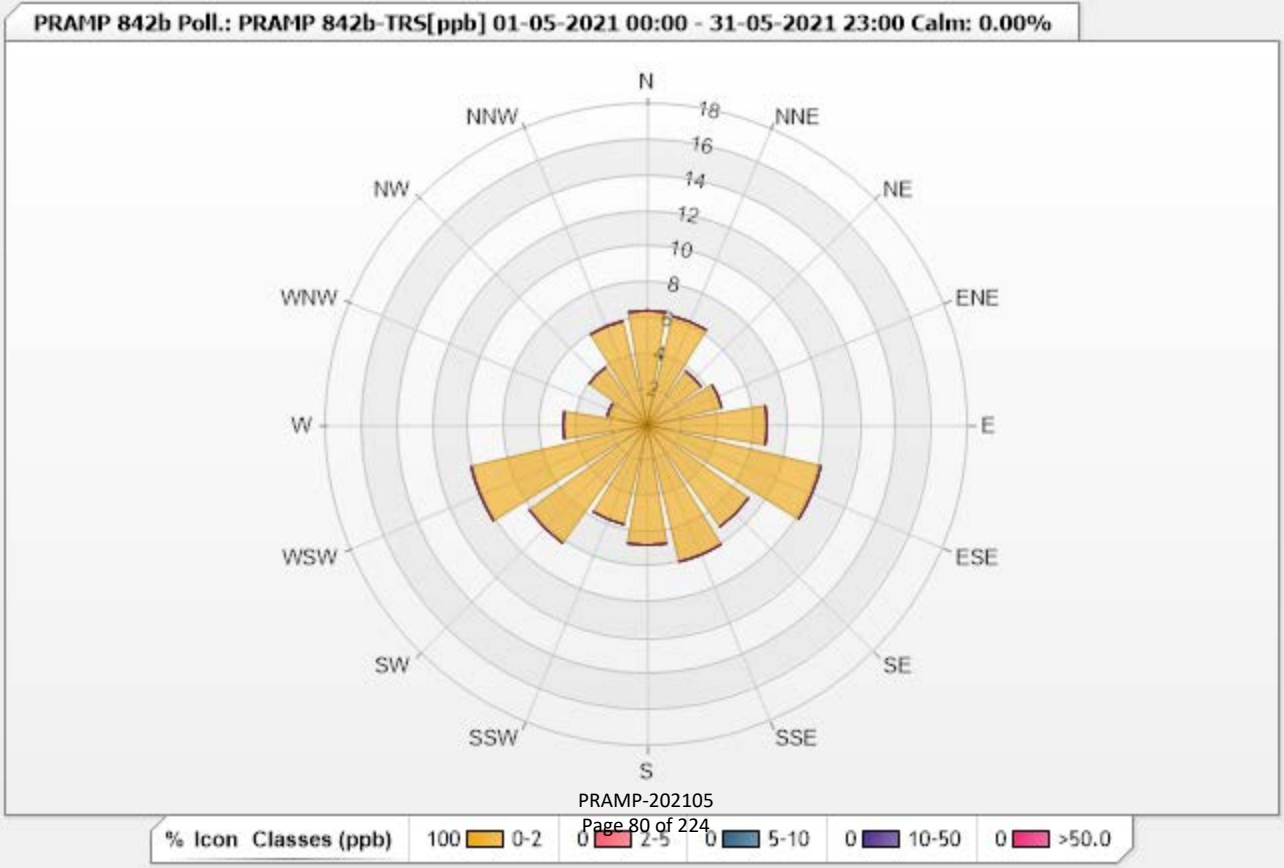




Classes	TRS
<=0	1.43%
0 - 1	98.57%
1 - 2	0.00%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-TRS[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.09% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	6.43	0	0	0	0	6.43
NNE	6.29	0	0	0	0	6.29
NE	3.71	0	0	0	0	3.71
ENE	4.29	0	0	0	0	4.29
E	6.71	0	0	0	0	6.71
ESE	10	0	0	0	0	10
SE	7	0	0	0	0	7
SSE	7.86	0	0	0	0	7.86
S	6.71	0	0	0	0	6.71
SSW	5.71	0	0	0	0	5.71
SW	8.14	0	0	0	0	8.14
WSW	10.14	0	0	0	0	10.14
W	4.71	0	0	0	0	4.71
WNW	2.29	0	0	0	0	2.29
NW	4	0	0	0	0	4
NNW	6	0	0	0	0	6
Summary	100	0	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-TRS[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppb)
100 0-2
0 2-5
0 5-10
0 10-50
0 >50.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

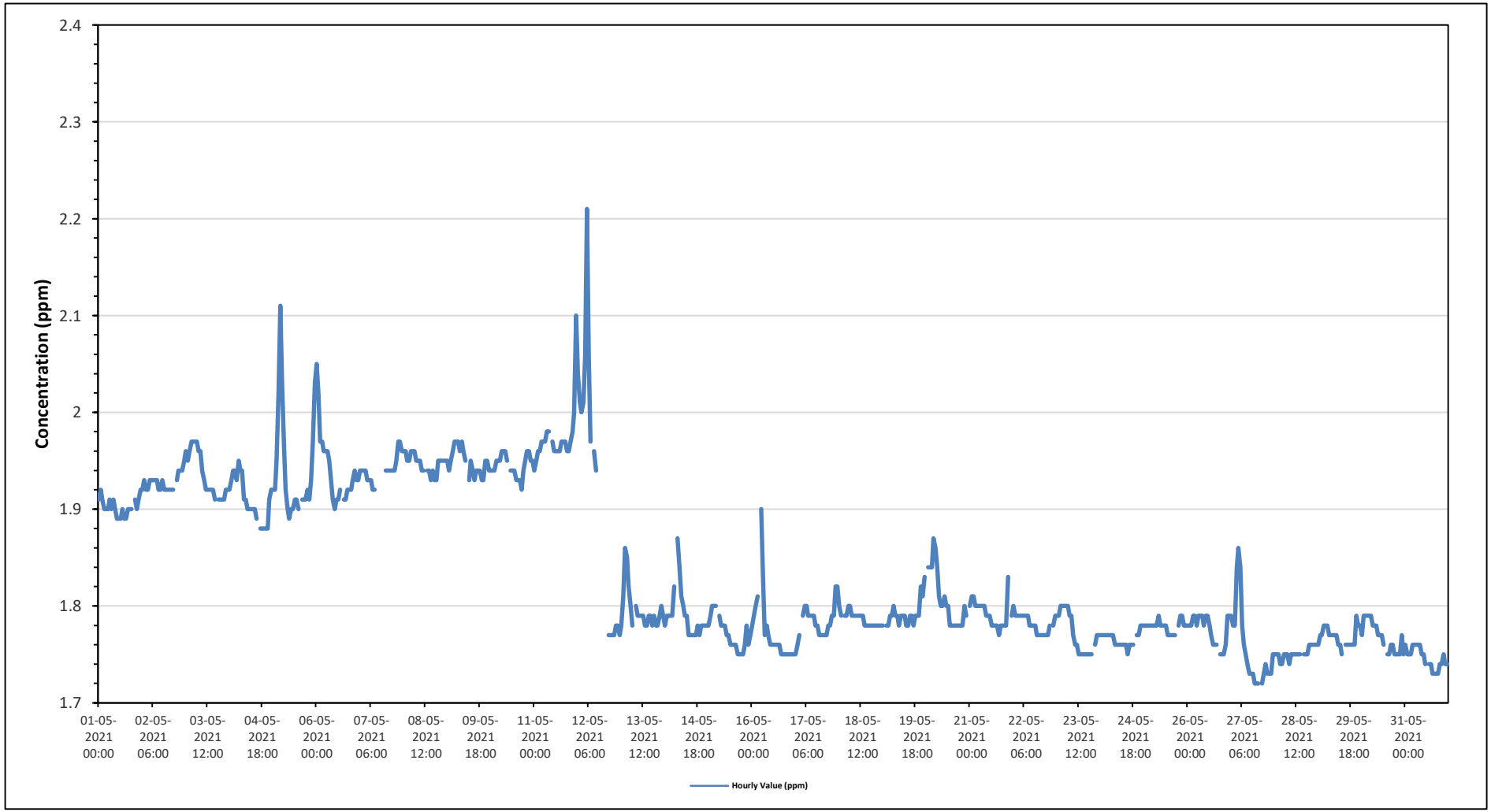
Maximum Hourly Value:	2.21	ppm	on May 12 at hour 5	Hours in Service:	744
Maximum Daily Value:	1.97	ppm	on May 11	Hours of Data:	702
Minimum Hourly Value:	1.72	ppm	on May 27 at hour 13	Hours of Missing Data:	4
Minimum Daily Value:	1.75	ppm	on May 31	Hours of Calibration:	38
Monthly Average:	1.84	ppm		Operational Uptime:	99.5

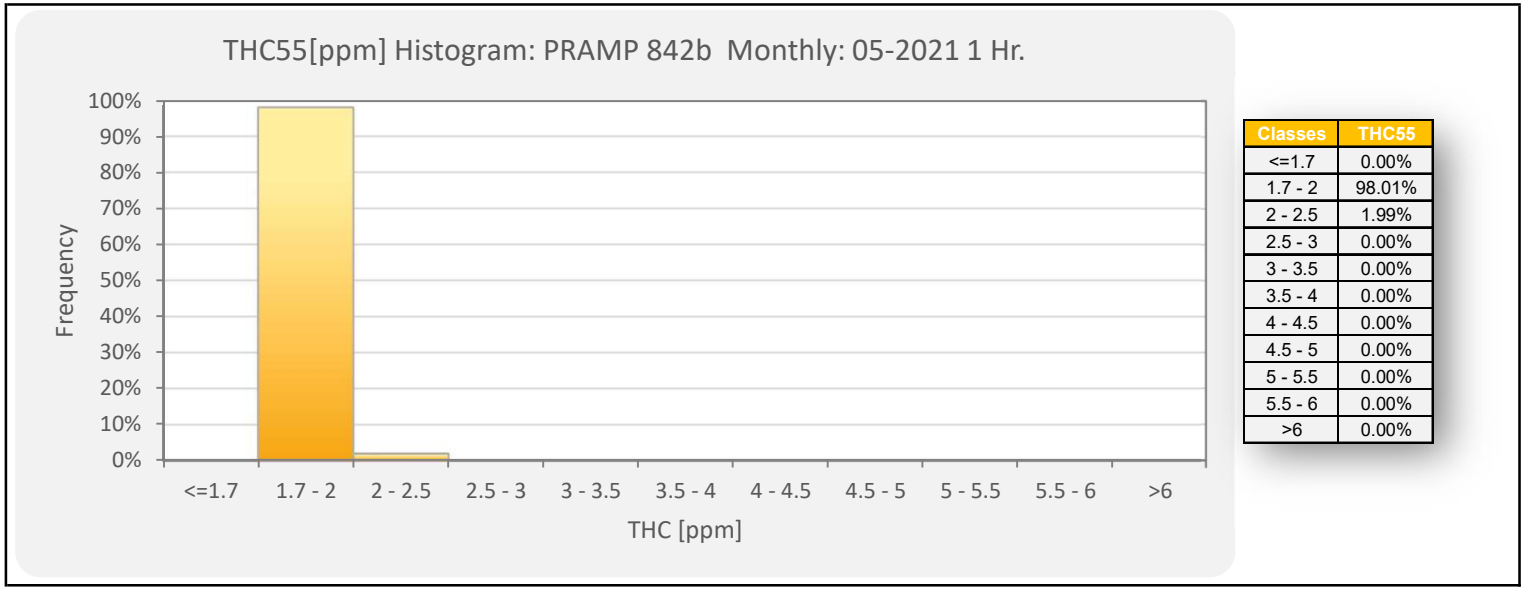
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	1.91	1.92	1.91	1.90	1.90	1.90	1.91	1.90	1.91	1.90	1.89	1.89	1.89	1.90	1.89	1.89	1.90	1.90	1.90	S	1.91	1.90	1.91	1.92	1.89	1.92	1.90
May 2	1.92	1.93	1.92	1.92	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.93	1.92	1.92	1.92	1.92	1.92	1.92	S	1.93	1.94	1.94	1.94	1.95	1.92	1.95	1.93
May 3	1.96	1.95	1.96	1.97	1.97	1.97	1.97	1.96	1.96	1.94	1.93	1.92	1.92	1.92	1.92	1.92	1.91	S	1.91	1.91	1.91	1.91	1.92	1.92	1.91	1.97	1.94
May 4	1.92	1.93	1.94	1.94	1.93	1.95	1.94	1.94	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.89	S	1.88	1.88	1.88	1.88	1.88	1.91	1.92	1.88	1.95	1.91
May 5	1.92	1.92	1.95	2.02	2.11	2.03	1.97	1.92	1.90	1.89	1.90	1.90	1.91	1.91	1.90	S	1.91	1.91	1.91	1.92	1.91	1.93	1.97	2.03	1.89	2.11	1.94
May 6	2.05	2.02	1.97	1.97	1.96	1.96	1.96	1.95	1.93	1.91	1.90	1.91	1.91	1.92	S	1.91	1.91	1.92	1.92	1.92	1.93	1.94	1.93	1.93	1.90	2.05	1.94
May 7	1.94	1.94	1.94	1.94	1.93	1.93	1.93	1.92	1.92	P	P	P	P	S	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.97	1.97	1.96	1.92	1.97	1.94
May 8	1.96	1.96	1.95	1.95	1.96	1.96	1.96	1.95	1.95	1.95	1.94	1.94	S	1.94	1.94	1.93	1.94	1.93	1.93	1.95	1.95	1.95	1.95	1.95	1.93	1.96	1.95
May 9	1.95	1.94	1.95	1.96	1.97	1.97	1.97	1.96	1.97	1.96	1.95	S	1.93	1.95	1.94	1.93	1.94	1.94	1.94	1.93	1.93	1.95	1.95	1.94	1.93	1.97	1.95
May 10	1.94	1.94	1.94	1.95	1.95	1.95	1.96	1.96	1.96	1.95	S	1.94	1.94	1.94	1.93	1.93	1.93	1.92	1.94	1.95	1.96	1.96	1.95	1.95	1.92	1.96	1.95
May 11	1.94	1.95	1.96	1.96	1.97	1.97	1.97	1.98	1.98	S	1.97	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.96	1.96	1.97	1.98	2.00	2.10	1.94	2.10	**1.97**
May 12	2.04	2.01	2.00	2.01	2.06	**2.21**	2.06	1.97	S	1.96	1.94	C	C	C	C	C	C	1.77	1.77	1.77	1.77	1.78	1.78	1.77	1.77	**2.21**	-
May 13	1.78	1.81	1.86	1.85	1.82	1.80	1.78	S	1.80	1.79	1.79	1.79	1.79	1.78	1.78	1.79	1.79	1.78	1.79	1.78	1.78	1.79	1.80	1.79	1.78	1.86	1.80
May 14	1.78	1.79	1.79	1.79	1.79	1.82	S	1.87	1.84	1.81	1.80	1.79	1.79	1.77	1.77	1.77	1.77	1.77	1.78	1.77	1.78	1.78	1.78	1.78	1.77	1.87	1.79
May 15	1.78	1.79	1.80	1.80	1.80	S	1.79	1.78	1.78	1.78	1.77	1.77	1.76	1.76	1.76	1.76	1.75	1.75	1.75	1.75	1.76	1.78	1.76	1.77	1.75	1.80	1.77
May 16	1.78	1.79	1.80	1.81	S	1.90	1.83	1.77	1.78	1.77	1.76	1.76	1.76	1.76	1.76	1.76	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.90	1.77
May 17	1.75	1.76	1.77	S	1.79	1.80	1.80	1.79	1.79	1.79	1.79	1.78	1.78	1.77	1.77	1.77	1.77	1.77	1.78	1.78	1.79	1.79	1.82	1.82	1.75	1.82	1.78
May 18	1.80	1.79	S	1.79	1.79	1.80	1.80	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.80	1.79
May 19	1.78	S	1.78	1.78	1.79	1.79	1.80	1.79	1.79	1.78	1.79	1.79	1.79	1.78	1.78	1.79	1.79	1.78	1.79	1.79	1.79	1.82	1.81	1.83	1.78	1.83	1.79
May 20	S	1.84	1.84	1.84	1.87	1.86	1.84	1.81	1.80	1.80	1.81	1.80	1.80	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.80	1.79	S	1.78	1.87	1.81
May 21	1.80	1.81	1.81	1.80	1.80	1.80	1.80	1.80	1.80	1.79	1.79	1.79	1.78	1.78	1.78	1.78	1.77	1.78	1.78	1.78	1.78	1.83	S	1.79	1.77	1.83	1.79
May 22	1.80	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.78	1.78	1.78	1.78	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.78	S	1.78	1.79	1.77	1.80	1.78
May 23	1.79	1.79	1.80	1.80	1.80	1.80	1.80	1.79	1.79	1.77	1.76	1.76	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	S	1.76	1.77	1.77	1.75	1.80	1.77
May 24	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.75	1.76	1.76	1.76	S	1.77	1.77	1.78	1.78	1.75	1.78	1.77
May 25	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.79	1.78	1.78	1.78	1.78	1.77	1.77	1.77	1.77	1.77	S	1.78	1.79	1.79	1.78	1.78	1.77	1.79	1.78
May 26	1.78	1.78	1.78	1.79	1.79	1.78	1.79	1.79	1.79	1.78	1.79	1.79	1.78	1.77	1.76	1.76	1.76	S	1.75	1.75	1.75	1.76	1.79	1.79	1.75	1.79	1.78
May 27	1.79	1.78	1.78	1.84	1.86	1.84	1.78	1.76	1.75	1.74	1.73	1.73	1.73	1.72	1.72	1.72	S	1.72	1.73	1.74	1.73	1.73	1.73	1.75	**1.72**	1.86	1.76
May 28	1.75	1.75	1.75	1.74	1.74	1.75	1.75	1.75	1.74	1.75	1.75	1.75	1.75	1.75	1.75	S	1.75	1.75	1.75	1.76	1.76	1.76	1.76	1.76	1.74	1.76	1.75
May 29	1.76	1.77	1.77	1.78	1.78	1.78	1.77	1.77	1.77	1.77	1.77	1.76	1.76	1.75	S	1.76	1.76	1.76	1.76	1.76	1.76	1.79	1.78	1.78	1.75	1.79	1.77
May 30	1.77	1.79	1.79	1.79	1.79	1.79	1.78	1.78	1.78	1.77	1.77	1.77	1.76	S	1.75	1.75	1.76	1.76	1.75	1.75	1.75	1.75	1.77	1.75	1.75	1.79	1.77
May 31	1.76	1.75	1.75	1.75	1.76	1.76	1.76	1.76	1.76	1.75	1.75	1.74	S	1.74	1.74	1.73	1.73	1.73	1.73	1.74	1.74	1.75	1.74	1.74	1.73	1.76	1.75
Diurnal Maximum	2.05	2.02	2.00	2.02	2.11	2.21	2.06	1.98	1.98	1.96	1.97	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.96	1.96	1.97	1.98	2.00	2.10			
Diurnal Average	1.85	1.85	1.85	1.86	1.87	1.87	1.86	1.85	1.84	1.83	1.83	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.83	1.84	1.84	1.84			

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 - 842b Station

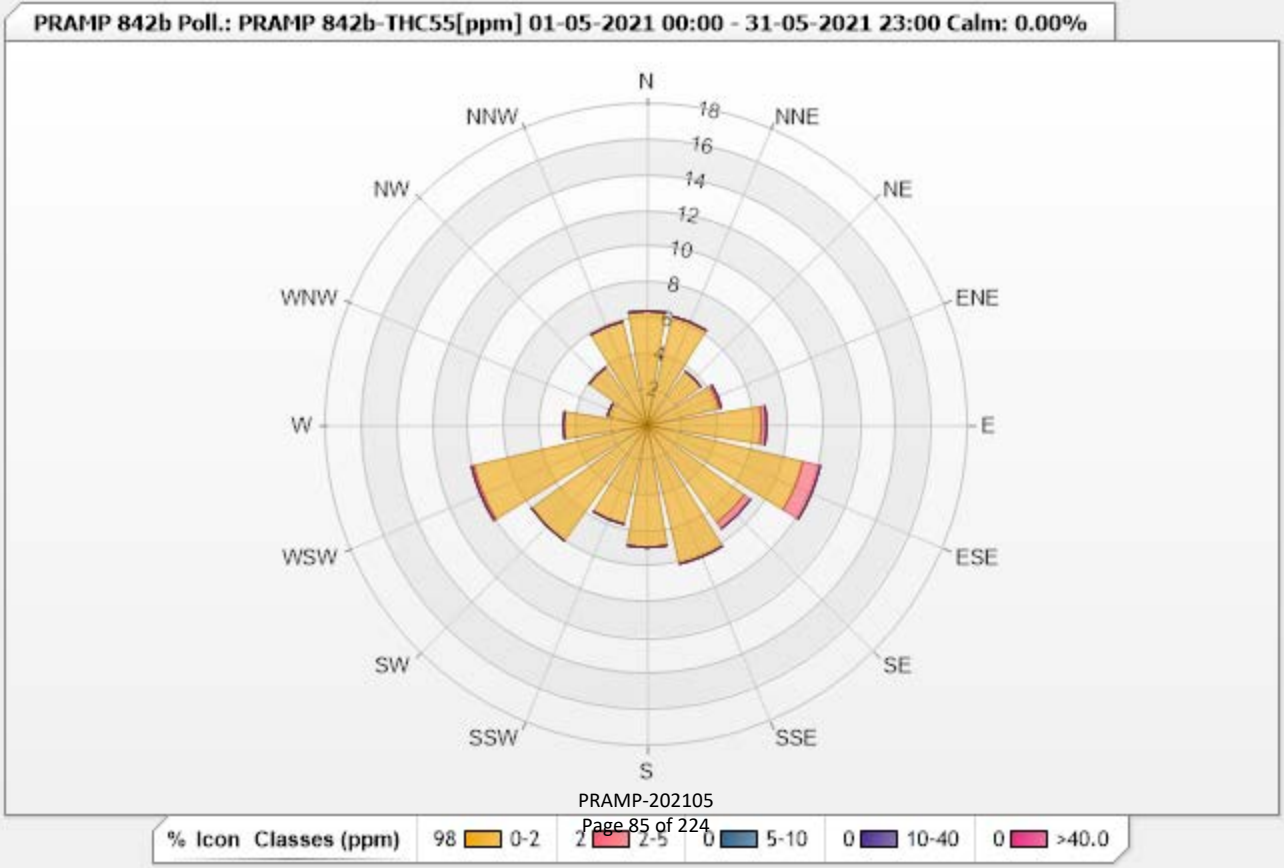




Classes	THC55
<=1.7	0.00%
1.7 - 2	98.01%
2 - 2.5	1.99%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-THC55[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.35% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	6.41	0	0	0	0	6.41
NNE	6.27	0	0	0	0	6.27
NE	3.7	0	0	0	0	3.7
ENE	4.13	0.14	0	0	0	4.27
E	6.41	0.28	0	0	0	6.69
ESE	8.97	1	0	0	0	9.97
SE	6.7	0.43	0	0	0	7.13
SSE	7.98	0	0	0	0	7.98
S	6.84	0	0	0	0	6.84
SSW	5.7	0	0	0	0	5.7
SW	7.98	0	0	0	0	7.98
WSW	9.97	0.14	0	0	0	10.11
W	4.7	0	0	0	0	4.7
WNW	2.28	0	0	0	0	2.28
NW	3.99	0	0	0	0	3.99
NNW	5.98	0	0	0	0	5.98
Summary	98.01	1.99	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-THC55[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppm)
98 0-2
2 2-5
0 5-10
0 10-40
0 >40.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

METHANE (CH4) in ppm

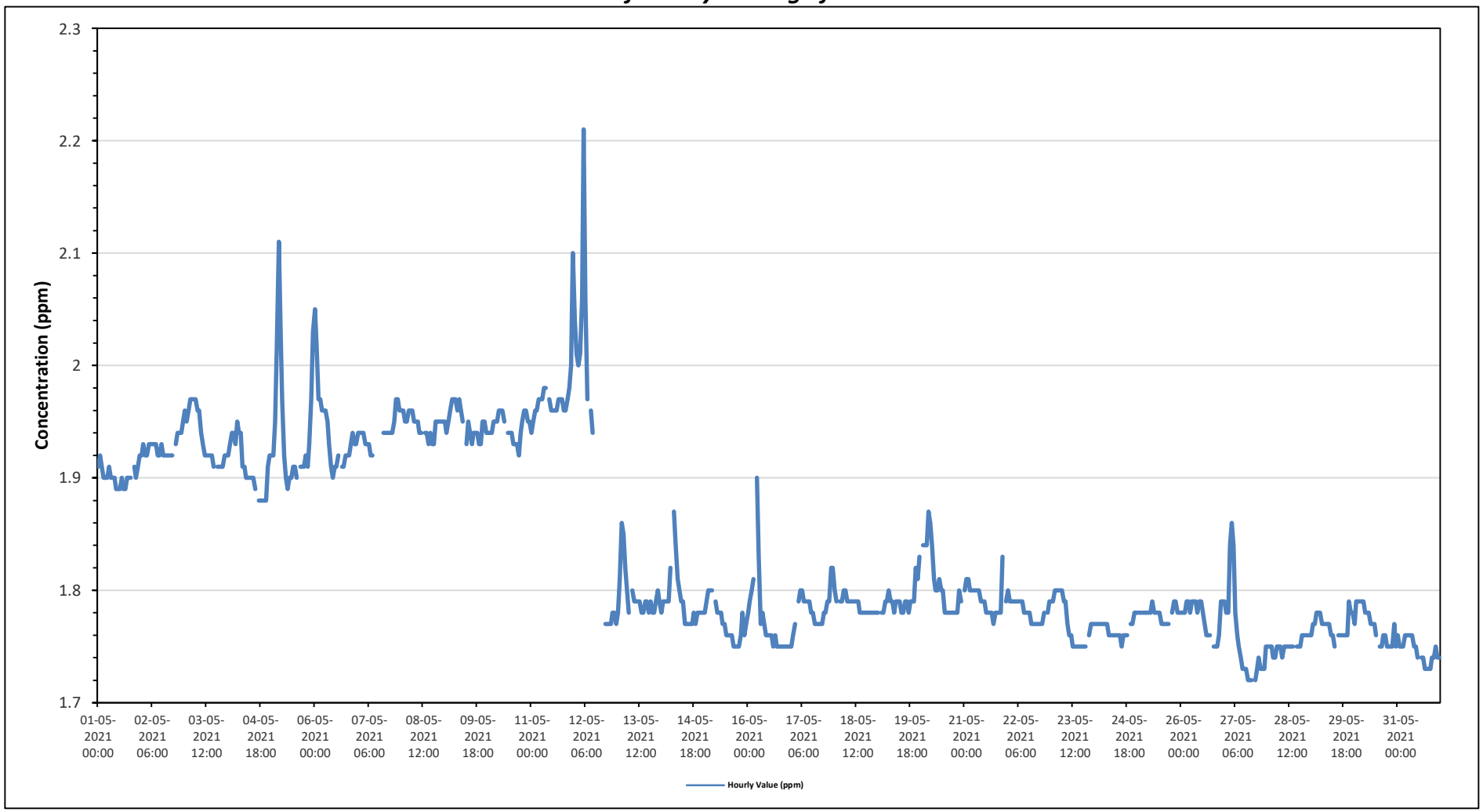
Maximum Hourly Value:	2.21	ppm	on May 12 at hour 5	Hours in Service:	744
Maximum Daily Value:	1.97	ppm	on May 11	Hours of Data:	702
Minimum Hourly Value:	1.72	ppm	on May 27 at hour 13	Hours of Missing Data:	4
Minimum Daily Value:	1.75	ppm	on May 31	Hours of Calibration:	38
Monthly Average:	1.84	ppm		Operational Uptime:	99.5

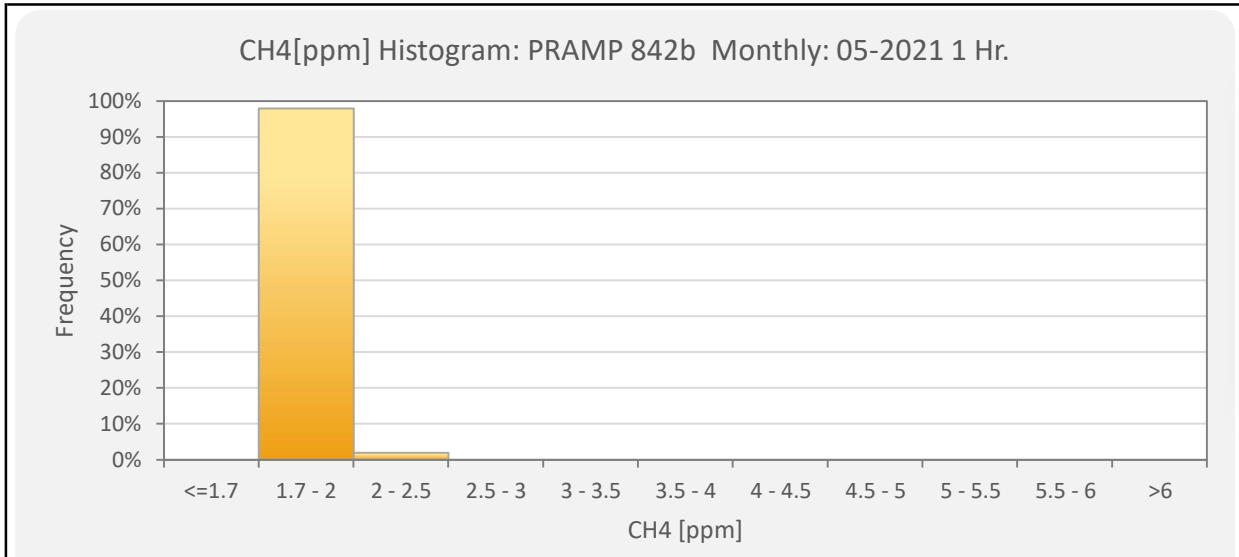
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	1.91	1.92	1.91	1.90	1.90	1.90	1.91	1.90	1.90	1.90	1.89	1.89	1.89	1.90	1.89	1.89	1.90	1.90	1.90	S	1.91	1.90	1.91	1.92	1.89	1.92	1.90
May 2	1.92	1.93	1.92	1.92	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.93	1.92	1.92	1.92	1.92	1.92	1.92	S	1.93	1.94	1.94	1.94	1.95	1.92	1.95	1.93
May 3	1.96	1.95	1.96	1.97	1.97	1.97	1.97	1.96	1.96	1.94	1.93	1.92	1.92	1.92	1.92	1.92	1.91	S	1.91	1.91	1.91	1.91	1.92	1.92	1.91	1.97	1.94
May 4	1.92	1.93	1.94	1.94	1.93	1.95	1.94	1.94	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.89	S	1.88	1.88	1.88	1.88	1.88	1.91	1.92	1.88	1.95	1.91
May 5	1.92	1.92	1.95	2.02	2.11	2.03	1.97	1.92	1.90	1.89	1.90	1.90	1.91	1.91	1.90	S	1.91	1.91	1.91	1.92	1.91	1.93	1.97	2.03	1.89	2.11	1.94
May 6	2.05	2.02	1.97	1.97	1.96	1.96	1.96	1.95	1.93	1.91	1.90	1.91	1.91	1.92	S	1.91	1.91	1.92	1.92	1.92	1.93	1.94	1.93	1.93	1.90	2.05	1.94
May 7	1.94	1.94	1.94	1.94	1.93	1.93	1.93	1.92	1.92	P	P	P	P	S	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.97	1.97	1.96	1.92	1.97	1.94
May 8	1.96	1.96	1.95	1.95	1.96	1.96	1.96	1.95	1.95	1.95	1.94	1.94	S	1.94	1.94	1.93	1.94	1.93	1.93	1.95	1.95	1.95	1.95	1.95	1.93	1.96	1.95
May 9	1.95	1.94	1.95	1.96	1.97	1.97	1.97	1.96	1.97	1.96	1.95	S	1.93	1.95	1.94	1.93	1.94	1.94	1.94	1.93	1.93	1.95	1.95	1.94	1.93	1.97	1.95
May 10	1.94	1.94	1.94	1.95	1.95	1.95	1.96	1.96	1.96	1.95	S	1.94	1.94	1.94	1.93	1.93	1.93	1.92	1.94	1.95	1.96	1.96	1.95	1.95	1.92	1.96	1.95
May 11	1.94	1.95	1.96	1.96	1.97	1.97	1.97	1.98	1.98	S	1.97	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.96	1.96	1.97	1.98	2.00	2.10	1.94	2.10	**1.97**
May 12	2.04	2.01	2.00	2.01	2.06	**2.21**	2.06	1.97	S	1.96	1.94	C	C	C	C	C	C	1.77	1.77	1.77	1.77	1.78	1.78	1.77	1.77	**2.21**	-
May 13	1.78	1.81	1.86	1.85	1.82	1.80	1.78	S	1.80	1.79	1.79	1.79	1.79	1.78	1.78	1.79	1.79	1.78	1.79	1.78	1.78	1.79	1.80	1.79	1.78	1.86	1.80
May 14	1.78	1.79	1.79	1.79	1.79	1.82	S	1.87	1.84	1.81	1.80	1.79	1.79	1.77	1.77	1.77	1.77	1.77	1.78	1.77	1.78	1.78	1.78	1.78	1.77	1.87	1.79
May 15	1.78	1.79	1.80	1.80	1.80	S	1.79	1.78	1.78	1.78	1.77	1.77	1.76	1.76	1.76	1.76	1.75	1.75	1.75	1.75	1.76	1.78	1.76	1.77	1.75	1.80	1.77
May 16	1.78	1.79	1.80	1.81	S	1.90	1.83	1.77	1.78	1.77	1.76	1.76	1.76	1.76	1.75	1.76	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.90	1.77
May 17	1.75	1.76	1.77	S	1.79	1.80	1.80	1.79	1.79	1.79	1.79	1.78	1.78	1.77	1.77	1.77	1.77	1.77	1.78	1.78	1.79	1.79	1.82	1.82	1.75	1.82	1.78
May 18	1.80	1.79	S	1.79	1.79	1.80	1.80	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.80	1.79
May 19	1.78	S	1.78	1.78	1.79	1.79	1.80	1.79	1.79	1.78	1.79	1.79	1.79	1.78	1.78	1.79	1.79	1.78	1.79	1.79	1.79	1.82	1.81	1.83	1.78	1.83	1.79
May 20	S	1.84	1.84	1.84	1.87	1.86	1.84	1.81	1.80	1.80	1.81	1.80	1.80	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.80	1.79	S	1.78	1.87	1.81
May 21	1.80	1.81	1.81	1.80	1.80	1.80	1.80	1.80	1.80	1.79	1.79	1.79	1.78	1.78	1.78	1.78	1.77	1.78	1.78	1.78	1.78	1.83	S	1.79	1.77	1.83	1.79
May 22	1.80	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.78	1.78	1.78	1.78	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.78	S	1.78	1.79	1.77	1.80	1.78
May 23	1.79	1.79	1.80	1.80	1.80	1.80	1.80	1.79	1.79	1.77	1.76	1.76	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	S	1.76	1.77	1.77	1.75	1.80	1.77
May 24	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.76	1.76	1.76	1.76	1.76	1.76	1.76	1.75	1.76	1.76	1.76	S	1.77	1.77	1.78	1.78	1.75	1.78	1.77
May 25	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.78	1.79	1.78	1.78	1.78	1.78	1.77	1.77	1.77	1.77	1.77	S	1.78	1.79	1.79	1.78	1.78	1.77	1.79	1.78
May 26	1.78	1.78	1.78	1.79	1.79	1.78	1.79	1.79	1.79	1.78	1.79	1.79	1.78	1.77	1.76	1.76	1.76	S	1.75	1.75	1.75	1.76	1.79	1.79	1.75	1.79	1.78
May 27	1.79	1.78	1.78	1.84	1.86	1.84	1.78	1.76	1.75	1.74	1.73	1.73	1.73	1.72	1.72	1.72	S	1.72	1.73	1.74	1.73	1.73	1.73	1.75	**1.72**	1.86	1.76
May 28	1.75	1.75	1.75	1.74	1.74	1.75	1.75	1.75	1.74	1.75	1.75	1.75	1.75	1.75	1.75	S	1.75	1.75	1.75	1.76	1.76	1.76	1.76	1.76	1.74	1.76	1.75
May 29	1.76	1.77	1.77	1.78	1.78	1.78	1.77	1.77	1.77	1.77	1.77	1.76	1.76	1.75	S	1.76	1.76	1.76	1.76	1.76	1.76	1.79	1.78	1.78	1.75	1.79	1.77
May 30	1.77	1.79	1.79	1.79	1.79	1.79	1.78	1.78	1.78	1.77	1.77	1.77	1.76	S	1.75	1.75	1.76	1.76	1.75	1.75	1.75	1.75	1.77	1.75	1.75	1.79	1.77
May 31	1.76	1.75	1.75	1.75	1.76	1.76	1.76	1.76	1.76	1.75	1.75	1.74	S	1.74	1.74	1.73	1.73	1.73	1.73	1.74	1.74	1.75	1.74	1.74	1.73	1.76	1.75
Diurnal Maximum	2.05	2.02	2.00	2.02	2.11	2.21	2.06	1.98	1.98	1.96	1.97	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.96	1.96	1.97	1.98	2.00	2.10			
Diurnal Average	1.85	1.85	1.85	1.86	1.87	1.87	1.86	1.85	1.84	1.83	1.83	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.83	1.84	1.84	1.84			

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

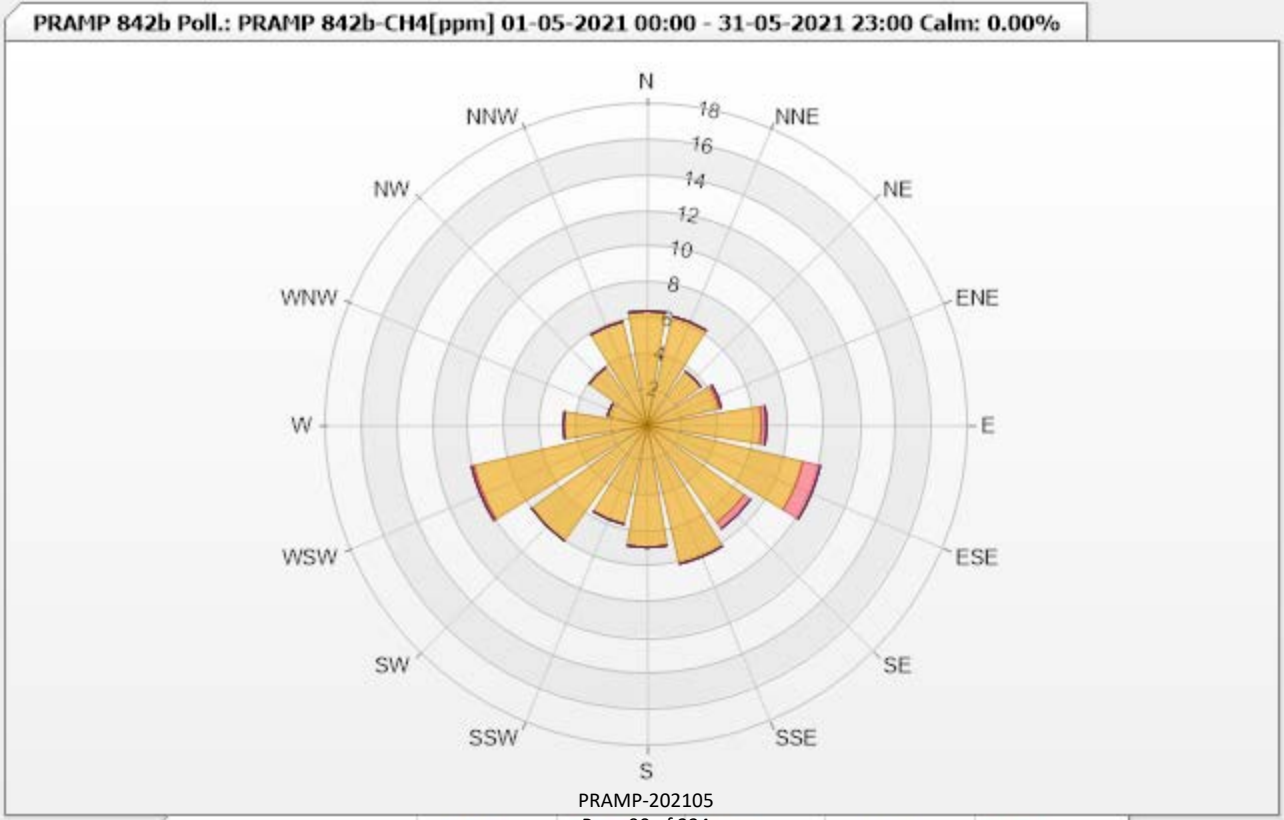




Classes	CH4
<=1.7	0.00%
1.7 - 2	98.01%
2 - 2.5	1.99%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-CH4[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.35% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	6.41	0	0	0	0	6.41
NNE	6.27	0	0	0	0	6.27
NE	3.7	0	0	0	0	3.7
ENE	4.13	0.14	0	0	0	4.27
E	6.41	0.28	0	0	0	6.69
ESE	8.97	1	0	0	0	9.97
SE	6.7	0.43	0	0	0	7.13
SSE	7.98	0	0	0	0	7.98
S	6.84	0	0	0	0	6.84
SSW	5.7	0	0	0	0	5.7
SW	7.98	0	0	0	0	7.98
WSW	9.97	0.14	0	0	0	10.11
W	4.7	0	0	0	0	4.7
WNW	2.28	0	0	0	0	2.28
NW	3.99	0	0	0	0	3.99
NNW	5.98	0	0	0	0	5.98
Summary	98.01	1.99	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-CH4[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppm)
98 0-2
2 2-5
0 5-10
0 10-20
0 >20.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

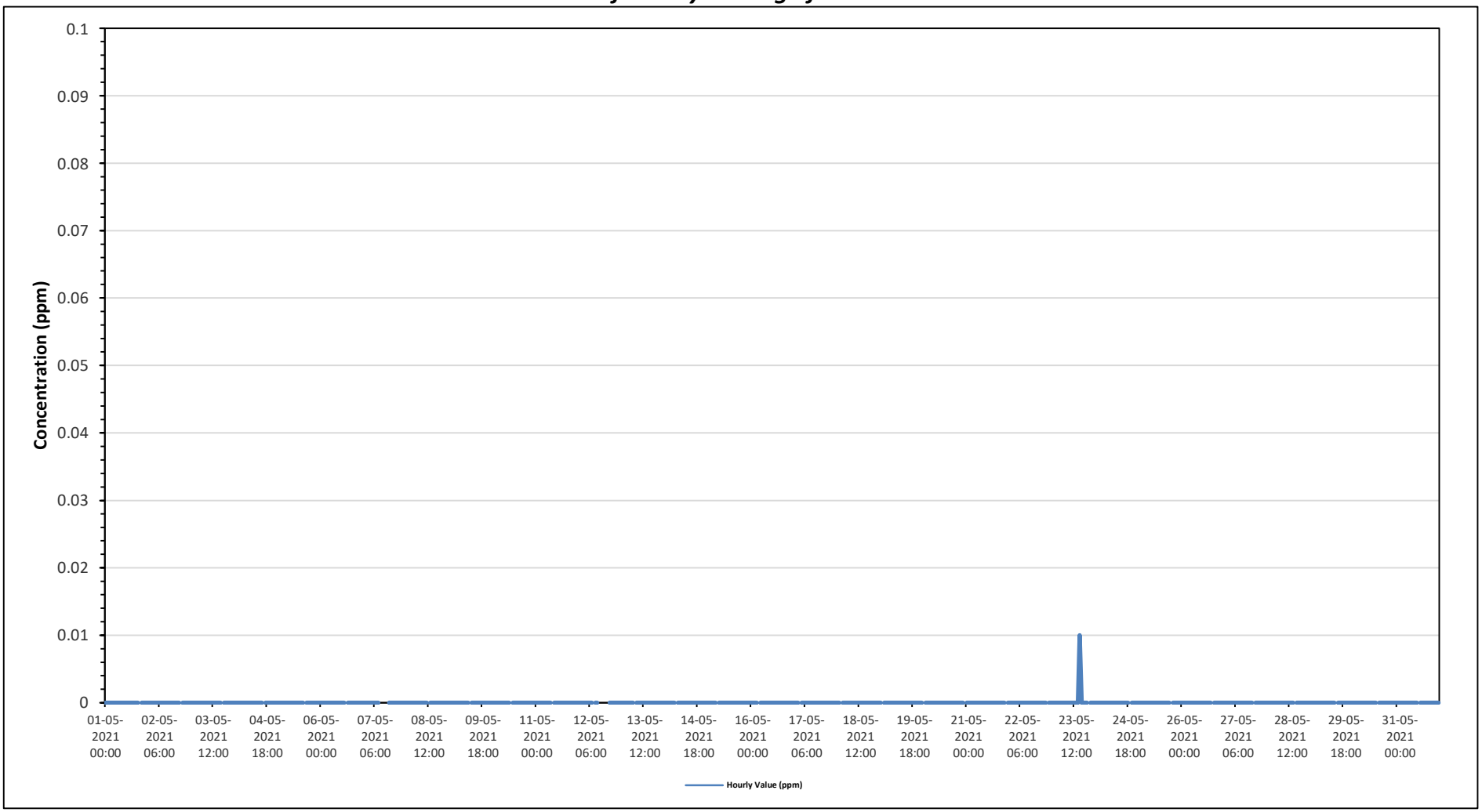
Maximum Hourly Value:	0.01	ppm	on May 23 at hour 15	Hours in Service:	744
Maximum Daily Value:	0.00	ppm	on May 23	Hours of Data:	702
Minimum Hourly Value:	0.00	ppm	on May 1 at hour 0	Hours of Missing Data:	4
Minimum Daily Value:	0.00	ppm	on May 1	Hours of Calibration:	38
Monthly Average:	0.00	ppm		Operational Uptime:	99.5

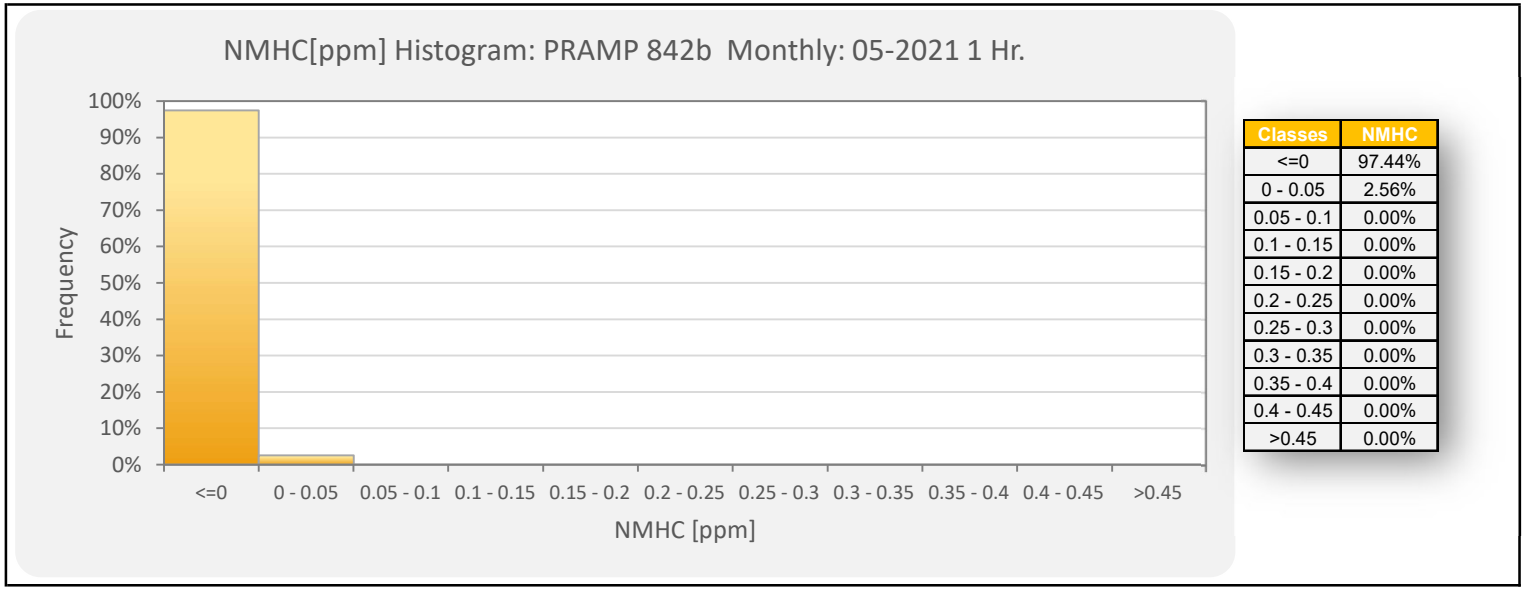
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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
May 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
May 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
May 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
May 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
May 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	P	P	P	P	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
May 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
May 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
May 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
May 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
May 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	C	C	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
May 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
May 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
May 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
May 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
May 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
May 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
May 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
May 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
May 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
May 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
May 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	**0.01**	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	**0.01**	**0.00**
May 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	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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
May 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
May 29	0.00	0.00	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
May 30	0.00	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
May 31	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	0.00	0.01	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			

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 - 842b Station

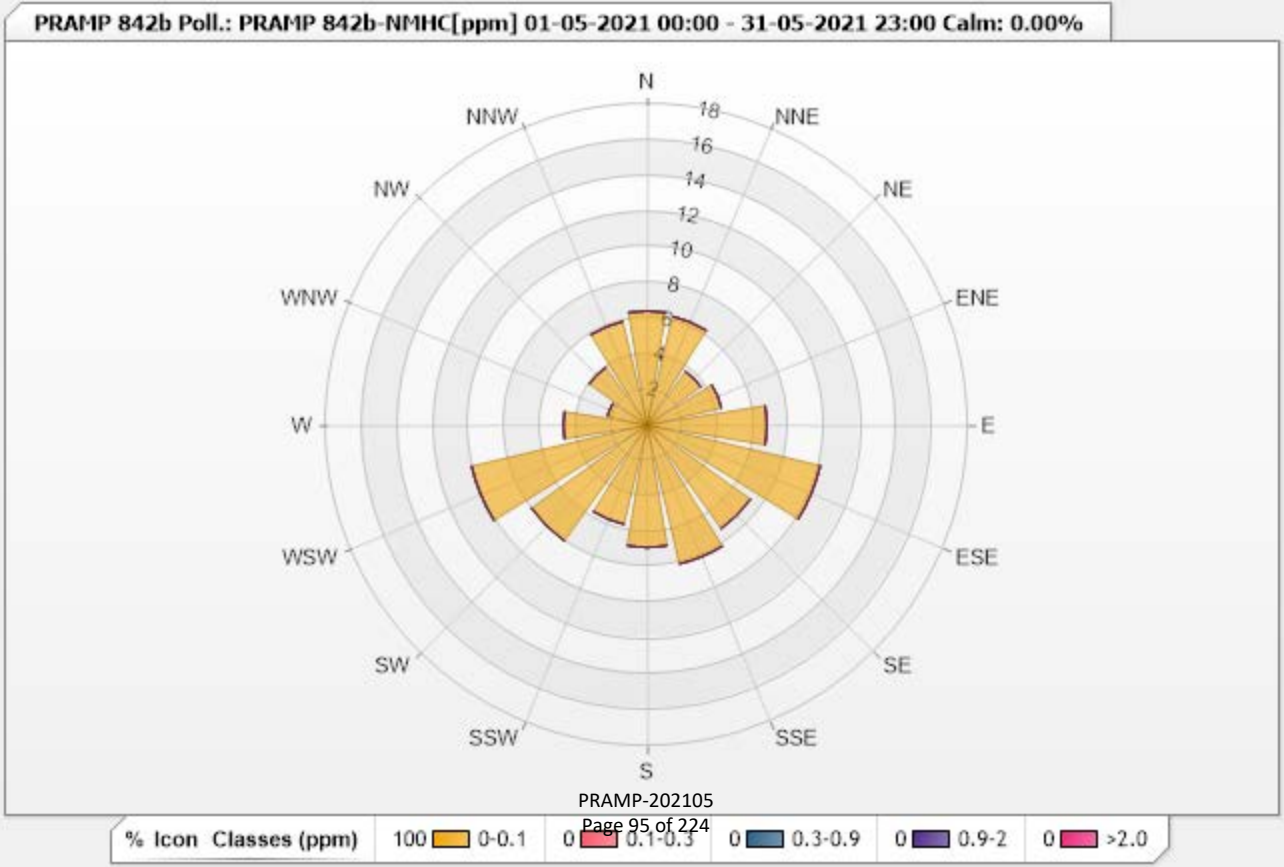




Classes	NMHC
<=0	97.44%
0 - 0.05	2.56%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-NMHC[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.35% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-0.9	0.9-2	>2.0	Total
N	6.41	0	0	0	0	6.41
NNE	6.27	0	0	0	0	6.27
NE	3.7	0	0	0	0	3.7
ENE	4.27	0	0	0	0	4.27
E	6.7	0	0	0	0	6.7
ESE	9.97	0	0	0	0	9.97
SE	7.12	0	0	0	0	7.12
SSE	7.98	0	0	0	0	7.98
S	6.84	0	0	0	0	6.84
SSW	5.7	0	0	0	0	5.7
SW	7.98	0	0	0	0	7.98
WSW	10.11	0	0	0	0	10.11
W	4.7	0	0	0	0	4.7
WNW	2.28	0	0	0	0	2.28
NW	3.99	0	0	0	0	3.99
NNW	5.98	0	0	0	0	5.98
Summary	100	0	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-NMHC[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% 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 pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

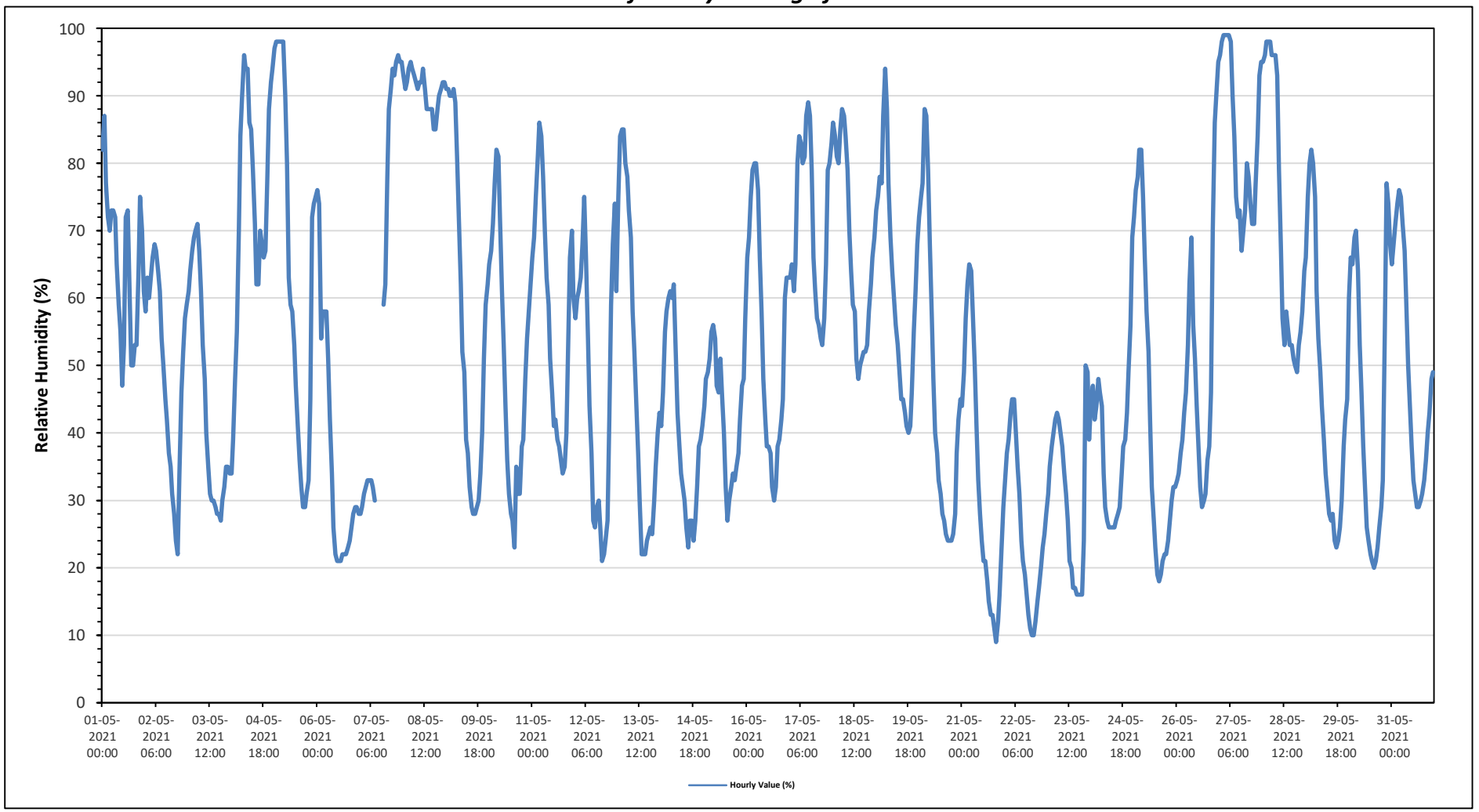
Maximum Hourly Value:	99	%	on May 27 at hour 2	Hours in Service:	744
Maximum Daily Value:	90.8	%	on May 8	Hours of Data:	740
Minimum Hourly Value:	9	%	on May 21 at hour 19	Hours of Missing Data:	4
Minimum Daily Value:	25.5	%	on May 22	Hours of Calibration:	0
Monthly Average:	53.1	%		Operational Uptime:	99.5

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
May 1	82	87	77	72	70	73	73	72	65	59	55	47	53	72	73	63	50	50	53	53	64	75	70	61	47	87	65.4
May 2	58	63	60	63	66	68	67	64	61	54	50	45	42	37	35	31	28	24	22	34	46	52	57	59	22	68	49.4
May 3	61	64	67	69	70	71	67	61	53	48	40	35	31	30	30	29	28	28	27	30	32	35	35	34	27	71	44.8
May 4	34	39	48	55	70	84	90	96	94	94	86	85	79	71	62	62	70	68	66	67	77	88	92	94	34	96	73.8
May 5	97	98	98	98	98	98	90	80	63	59	58	53	47	41	36	32	29	29	31	33	45	72	74	75	29	98	63.9
May 6	76	74	54	58	58	58	51	42	34	26	22	21	21	21	22	22	22	23	24	26	28	29	29	28	21	76	36.2
May 7	28	29	31	32	33	33	33	32	30	P	P	P	P	59	62	78	88	91	94	93	95	96	95	95	28	96	61.4
May 8	93	91	92	94	95	94	93	92	91	92	92	94	91	88	88	88	88	85	85	88	90	91	92	92	85	95	**90.8**
May 9	91	91	90	90	91	89	81	72	62	52	49	39	37	32	29	28	28	29	30	34	40	51	59	62	28	91	56.5
May 10	65	67	71	77	82	81	72	61	53	44	36	31	28	27	23	35	31	31	38	39	48	54	58	62	23	82	50.6
May 11	66	69	75	81	86	84	78	70	63	59	51	46	41	42	39	38	36	34	35	40	53	66	70	60	34	86	57.6
May 12	57	60	61	63	68	75	66	54	44	37	27	26	29	30	26	21	22	24	27	42	59	68	74	61	21	75	46.7
May 13	75	84	85	85	80	78	73	69	58	52	45	37	30	22	22	22	24	25	26	25	30	35	40	43	22	85	48.5
May 14	41	46	55	58	60	61	60	62	53	43	39	34	32	30	26	23	27	27	24	27	32	38	39	41	23	62	40.8
May 15	44	48	49	51	55	56	54	47	46	51	46	40	32	27	30	32	34	33	35	37	42	47	48	57	27	57	43.4
May 16	66	69	75	79	80	80	76	66	58	48	42	38	38	37	32	30	32	38	39	42	45	60	63	63	30	80	54.0
May 17	63	65	61	65	80	84	83	80	81	87	89	87	79	66	61	57	56	54	53	57	65	79	80	83	53	89	71.5
May 18	86	84	81	80	85	88	87	84	79	70	64	59	58	51	48	50	51	52	52	53	58	62	66	69	48	88	67.4
May 19	73	75	78	77	87	94	88	77	69	64	60	56	53	49	45	45	43	41	40	41	46	55	61	68	40	94	61.9
May 20	72	75	77	88	87	79	68	57	48	40	37	33	31	28	27	25	24	24	24	25	28	37	42	45	24	88	46.7
May 21	44	49	57	62	65	64	58	50	41	33	28	24	21	21	18	15	13	13	11	**9**	12	16	23	29	**9**	65	32.3
May 22	33	37	39	43	45	45	40	35	31	24	21	19	16	13	11	10	10	12	15	17	20	23	25	28	10	45	25.5
May 23	31	35	38	40	42	43	42	40	38	34	31	27	21	20	17	17	16	16	16	16	24	50	49	39	16	50	30.9
May 24	45	47	42	44	48	46	44	34	29	27	26	26	26	26	27	28	29	34	38	39	43	49	56	69	26	69	38.4
May 25	72	76	78	82	82	75	66	58	52	42	32	27	23	19	18	19	21	22	22	24	27	30	32	32	18	82	43.0
May 26	33	34	37	39	43	46	53	62	69	56	51	44	38	32	29	30	31	36	38	46	70	86	90	95	29	95	49.5
May 27	96	98	**99**	**99**	**99**	**99**	98	90	84	75	72	73	67	70	73	80	78	74	71	71	77	84	93	95	67	**99**	84.0
May 28	95	96	98	98	98	96	96	96	93	79	67	57	53	58	55	53	53	51	50	49	53	55	58	64	49	98	71.7
May 29	66	75	80	82	80	75	61	54	49	44	39	34	31	28	27	28	24	23	24	26	30	38	42	45	23	82	46.0
May 30	60	66	65	69	70	64	53	46	38	32	26	24	22	21	20	21	23	26	29	33	55	77	74	68	20	77	45.1
May 31	65	68	71	74	76	75	71	67	60	50	44	38	33	31	29	29	30	31	33	36	40	43	48	49	29	76	49.6
Diurnal Maximum	97	98	99	99	99	99	98	96	94	94	92	94	91	88	88	88	88	91	94	93	95	96	95	95			
Diurnal Average	63.5	66.4	67.4	69.9	72.5	72.8	68.8	63.5	57.7	52.5	47.5	43.3	40.1	38.7	36.8	36.8	36.7	37.0	37.8	40.4	47.5	56.2	59.2	60.2			

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 RH - 842b Station



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

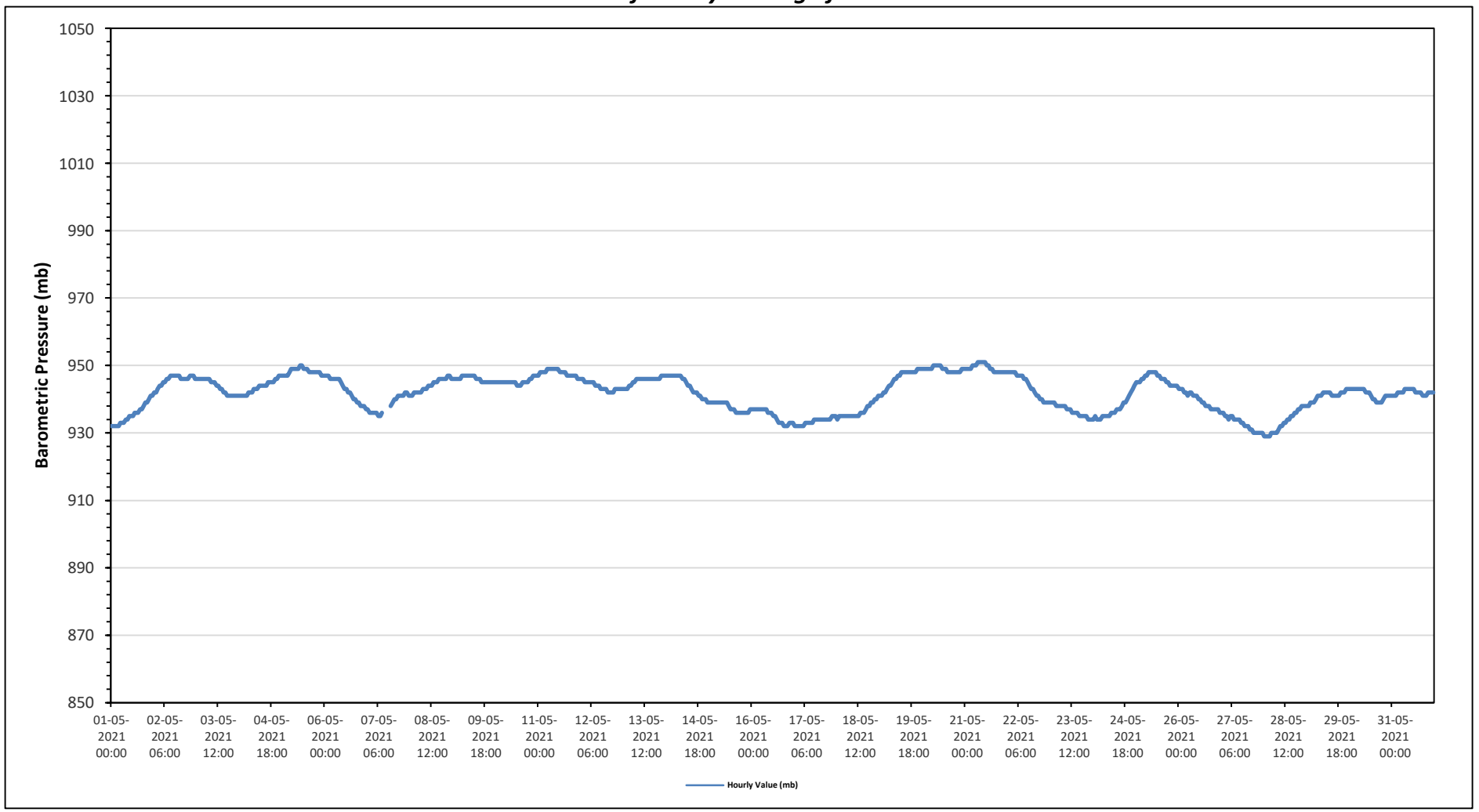
Maximum Hourly Value:	951	mb	on May 21 at hour 7	Hours in Service:	744
Maximum Daily Value:	949	mb	on May 21	Hours of Data:	740
Minimum Hourly Value:	929	mb	on May 28 at hour 0	Hours of Missing Data:	4
Minimum Daily Value:	933	mb	on May 27	Hours of Calibration:	0
Monthly Average:	942	mb		Operational Uptime:	99.5

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
May 1	932	932	932	932	932	933	933	933	934	934	935	935	935	936	936	936	937	937	938	939	939	940	941	941	932	941	935.5
May 2	942	942	943	944	944	945	945	946	946	947	947	947	947	947	947	946	946	946	946	946	947	947	947	946	942	947	945.7
May 3	946	946	946	946	946	946	946	946	945	945	945	944	944	943	943	942	942	941	941	941	941	941	941	941	941	946	943.7
May 4	941	941	941	941	941	942	942	942	943	943	943	944	944	944	944	944	945	945	945	945	946	946	947	947	941	947	943.6
May 5	947	947	947	947	948	949	949	949	949	949	950	950	949	949	949	948	948	948	948	948	948	948	947	947	947	950	948.3
May 6	947	947	947	946	946	946	946	946	946	945	944	943	943	942	942	941	940	940	939	939	938	938	938	937	937	947	942.8
May 7	937	936	936	936	936	936	935	935	936	P	P	P	P	938	939	940	940	941	941	941	941	942	942	941	935	942	938.5
May 8	941	941	942	942	942	942	942	943	943	943	944	944	944	945	945	945	946	946	946	946	946	947	947	946	941	947	944.1
May 9	946	946	946	946	946	947	947	947	947	947	947	947	947	946	946	946	945	945	945	945	945	945	945	945	945	947	946.0
May 10	945	945	945	945	945	945	945	945	945	945	945	945	944	944	944	945	945	945	945	946	946	947	947	947	944	947	945.2
May 11	947	948	948	948	948	949	949	949	949	949	949	949	948	948	948	948	947	947	947	947	947	947	946	946	946	949	947.8
May 12	946	946	945	945	945	945	945	945	944	944	944	943	943	943	943	942	942	942	942	943	943	943	943	943	942	946	943.7
May 13	943	943	943	944	944	945	945	946	946	946	946	946	946	946	946	946	946	946	946	946	946	947	947	947	943	947	945.5
May 14	947	947	947	947	947	947	947	947	947	946	946	945	944	944	943	942	942	942	941	941	940	940	940	939	939	947	944.1
May 15	939	939	939	939	939	939	939	939	939	939	939	938	937	937	937	936	936	936	936	936	936	936	936	937	936	939	937.6
May 16	937	937	937	937	937	937	937	937	937	936	936	936	935	935	934	933	933	933	932	932	932	933	933	933	932	937	935.0
May 17	932	932	932	932	932	932	933	933	933	933	933	934	934	934	934	934	934	934	934	934	934	935	935	935	932	935	933.4
May 18	934	935	935	935	935	935	935	935	935	935	935	935	935	936	936	936	937	938	938	939	939	940	940	941	934	941	936.4
May 19	941	941	942	942	943	944	944	945	946	946	947	947	948	948	948	948	948	948	948	948	948	949	949	949	941	949	946.1
May 20	949	949	949	949	949	949	950	950	950	950	950	949	949	949	948	948	948	948	948	948	948	948	949	949	948	950	948.9
May 21	949	949	949	949	950	950	950	**951**	**951**	**951**	**951**	**951**	950	950	949	949	948	948	948	948	948	948	948	948	948	**951**	**949.3**
May 22	948	948	948	948	948	947	947	947	947	946	946	945	944	943	943	942	941	941	940	940	939	939	939	939	939	948	944.0
May 23	939	939	939	938	938	938	938	938	938	937	937	937	936	936	936	936	935	935	935	935	935	934	934	934	934	939	936.5
May 24	934	935	934	934	934	935	935	935	935	935	936	936	936	937	937	937	938	939	939	940	941	942	943	944	934	944	937.1
May 25	945	945	945	946	946	947	947	948	948	948	948	948	947	947	946	946	946	945	945	944	944	944	944	944	944	948	946.0
May 26	943	943	943	942	942	941	942	942	941	941	941	940	940	939	939	938	938	938	937	937	937	937	937	936	936	943	939.8
May 27	936	936	935	935	934	935	935	934	934	934	934	933	933	932	932	932	931	931	930	930	930	930	930	930	930	936	932.8
May 28	**929**	**929**	**929**	**929**	930	930	930	930	931	932	932	933	933	934	934	935	935	936	936	937	937	938	938	938	**929**	938	933.1
May 29	938	938	939	939	939	940	941	941	941	942	942	942	942	942	941	941	941	941	941	942	942	942	943	943	938	943	941.0
May 30	943	943	943	943	943	943	943	943	943	942	942	942	941	940	940	939	939	939	939	940	941	941	941	941	939	943	941.4
May 31	941	941	941	942	942	942	942	943	943	943	943	943	943	942	942	942	942	941	941	941	942	942	942	942	941	943	942.0
Diurnal Maximum	949	949	949	949	950	950	950	951	951	951	951	951	950	950	949	949	948	948	948	948	948	949	949	949			
Diurnal Average	941	941	942	942	942	942	942	942	942	942	943	942	942	942	942	941	941	941	941	941	941	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



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

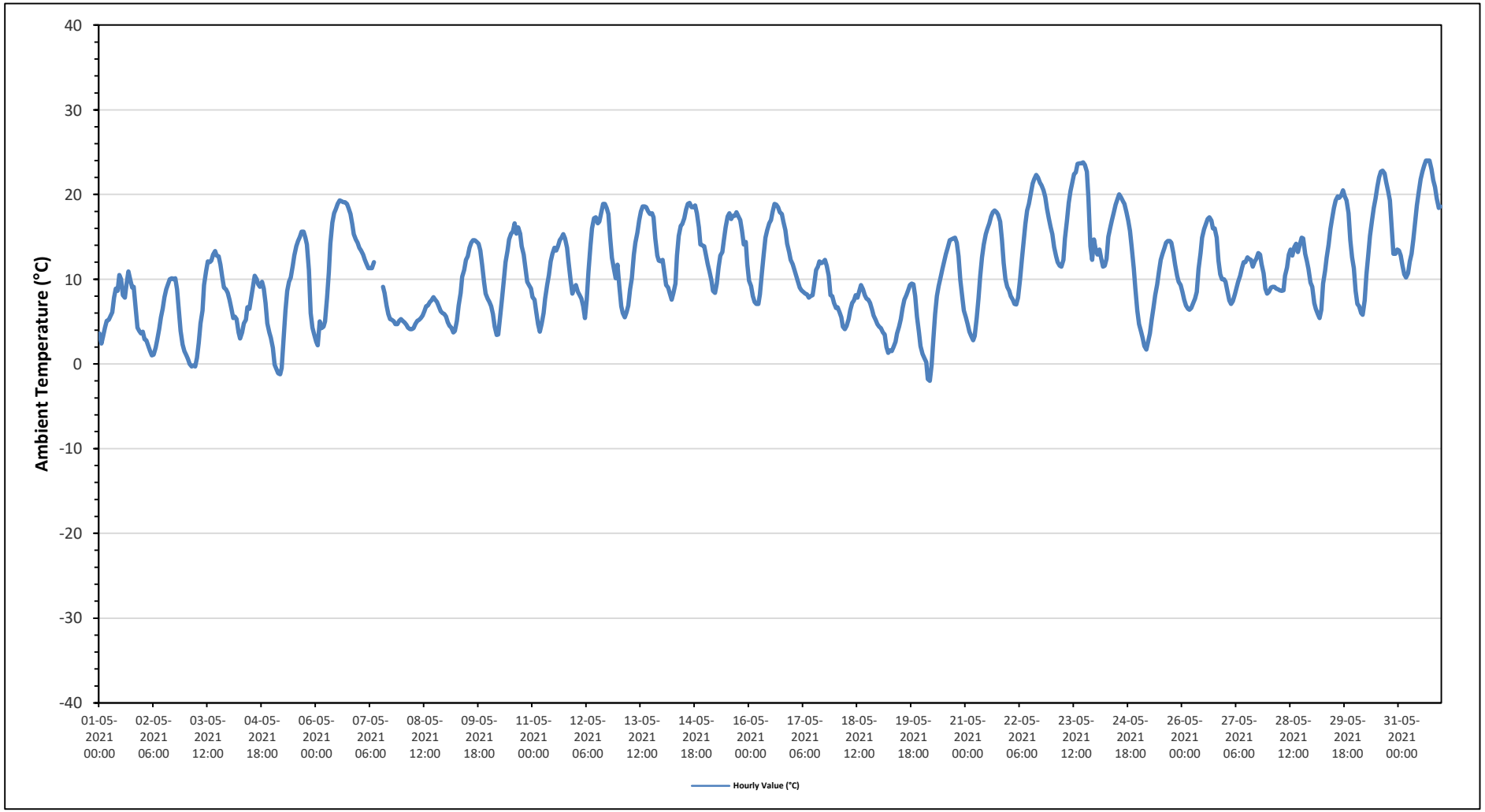
Maximum Hourly Value:	24.0	°C	on May 31 at hour 15	Hours in Service:	744
Maximum Daily Value:	17.8	°C	on May 23	Hours of Data:	740
Minimum Hourly Value:	-2.0	°C	on May 20 at hour 4	Hours of Missing Data:	4
Minimum Daily Value:	4.9	°C	on May 19	Hours of Calibration:	0
Monthly Average:	10.9	°C		Operational Uptime:	99.5

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
May 1	3.6	2.4	3.2	4.3	5.1	5.2	5.6	6.1	7.8	8.9	8.6	10.5	10	8.1	7.8	9.3	10.9	10	9	9.1	6.5	4.3	3.9	3.6	2.4	10.9	6.8
May 2	3.8	2.9	2.8	2.1	1.5	1	1.1	1.9	2.8	4.1	5.5	6.5	7.9	8.8	9.5	10	10.1	10	10.1	8.8	6	3.9	2.3	1.5	1.0	10.1	5.2
May 3	1	0.6	0	-0.3	-0.2	-0.3	0.7	2.5	4.8	6.3	9.3	10.9	12.1	12	12.2	12.9	13.3	12.8	12.7	11.7	10.3	9	8.8	8.4	-0.3	13.3	7.1
May 4	7.6	6.6	5.4	5.6	5.3	3.7	3	3.7	4.8	5.2	6.7	6.5	7.8	9.1	10.4	10	9.4	9.1	9.7	8.9	7.2	4.8	3.7	3.1	3.0	10.4	6.6
May 5	1.9	-0.1	-0.6	-1.1	-1.2	-0.5	2.7	6.3	8.6	9.7	10.2	11.6	12.8	13.9	14.5	15	15.6	15.6	14.9	14.1	11.1	6	4.3	3.5	-1.2	15.6	7.9
May 6	2.6	2.2	5	4.2	4.4	5	7.8	10.8	14.2	16.7	17.8	18.3	18.9	19.3	19.2	19.1	19.1	18.9	18.4	17.7	16.5	15.3	14.7	14.3	2.2	19.3	13.4
May 7	13.7	13.4	12.9	12.3	11.8	11.3	11.3	11.3	12	P	P	P	P	9.1	8.4	6.9	5.9	5.3	5.2	5	4.7	4.7	5.1	5.3	4.7	13.7	8.8
May 8	5.1	4.9	4.6	4.3	4.1	4.1	4.2	4.7	5.1	5.2	5.4	5.7	6.2	6.8	6.9	7.3	7.5	7.9	7.6	7.3	6.8	6.2	6	5.9	4.1	7.9	5.8
May 9	5.6	4.9	4.5	4.3	3.7	3.9	5.1	6.9	8.4	10.3	11.1	12.3	12.7	13.7	14.3	14.6	14.6	14.4	14.2	13.4	11.7	9.6	8.3	7.7	3.7	14.6	9.6
May 10	7.3	6.8	5.9	4.4	3.4	3.5	5.7	7.7	9.8	12	13.4	14.7	15.4	15.6	16.6	15.4	16.1	15.4	13.9	12.9	11.3	9.7	9.3	8.9	3.4	16.6	10.6
May 11	7.9	7.6	6.1	4.7	3.8	4.7	6	7.7	9.3	10.5	12.1	13	13.7	13.4	13.9	14.6	14.9	15.3	14.8	13.7	12	9.9	8.3	9	3.8	15.3	10.3
May 12	9.3	8.5	8.1	7.7	6.8	5.4	7.6	10.9	14	16	17.2	17.3	16.6	16.8	17.9	18.9	18.9	18.4	17.7	14.9	12.5	11.2	10.1	11.7	5.4	18.9	13.1
May 13	9.3	6.8	6	5.5	6.1	6.9	8.8	10.1	12.9	14.3	15.5	16.9	18	18.6	18.6	18.5	18	17.7	17.8	17.3	14.8	12.8	12.2	12.1	5.5	18.6	13.1
May 14	12.3	10.8	9.3	9	8.4	7.6	8.4	9.5	12.8	15.1	16.3	16.5	17.2	18.2	18.9	19	18.5	18.5	18.7	17.8	16.1	14.1	14	13.9	7.6	19.0	14.2
May 15	13	11.8	10.9	9.8	8.6	8.4	9.5	11.4	12.8	13.2	14.6	16.1	17.4	17.8	17.1	17.5	17.5	17.9	17.4	17	15.7	14.1	14.4	11.8	8.4	17.9	14.0
May 16	9.8	9.2	8	7.3	7.1	7.1	8.2	10.8	12.9	14.9	15.8	16.6	17	17.9	18.9	18.8	18.5	17.9	17.7	16.8	15.8	14.2	13.2	12.3	7.1	18.9	13.6
May 17	11.8	11.1	10.5	9.7	9	8.7	8.5	8.3	8.2	7.8	8	8.1	9.3	11.1	11.5	12.1	11.9	12	12.3	11.6	10.4	8.1	8	7.2	7.2	12.3	9.8
May 18	6.6	6.7	6.1	5.5	4.4	4.1	4.5	5.3	6.3	7.2	7.5	8.1	7.8	8.7	9.3	8.8	8.1	7.7	7.6	7.2	6.4	5.7	5.2	4.7	4.1	9.3	6.6
May 19	4.4	4.2	3.7	3.5	2	1.3	1.6	1.5	2	2.6	3.6	4.4	5.3	6.6	7.6	8.1	8.7	9.3	9.5	9.4	8	5.6	3.7	2.1	1.3	9.5	4.9
May 20	1.2	0.7	0.2	-1.8	-2	-0.2	2.9	5.9	8	9.2	10.1	11.2	12.1	13	13.7	14.6	14.7	14.8	14.9	14.3	12.7	9.9	7.8	6.3	-2.0	14.9	8.1
May 21	5.5	4.7	3.8	3.3	2.8	3.3	5.4	7.7	10.4	12.6	14.1	15.3	15.9	16.6	17.4	17.9	18.1	17.9	17.6	16.8	14.7	11.9	10	9.1	2.8	18.1	11.4
May 22	8.6	8	7.6	7.1	7	7.8	10	12.3	14.4	16.5	18.1	18.9	20	21.3	21.8	22.3	22	21.4	21.1	20.5	19.7	18.3	17.2	16.2	7.0	22.3	15.8
May 23	15.3	13.8	12.7	12	11.6	11.5	12.3	14.8	16.9	19	20.4	21.4	22.4	22.6	23.6	23.7	23.7	23.8	23.5	22.7	19.7	13.9	12.3	14.7	11.5	23.8	17.8
May 24	13.5	12.9	13.5	12.6	11.5	11.6	12.4	15	16.1	16.9	17.9	18.8	19.5	20	19.7	19.2	18.9	17.9	16.9	15.7	13.7	11.3	9	6.3	6.3	20.0	15.0
May 25	4.7	3.8	3.1	2.1	1.7	2.5	3.6	5.2	6.6	8.1	9.4	10.9	12.3	13	13.7	14.3	14.5	14.5	14.3	13.1	11.7	10.4	9.7	9.3	1.7	14.5	8.9
May 26	8.5	7.6	6.9	6.5	6.4	6.6	7.2	7.7	8.5	11.2	13.1	14.9	15.9	16.5	17.1	17.3	16.9	16	16	14.9	12.2	10.6	10	10	6.4	17.3	11.6
May 27	9.7	8.5	7.5	7.1	7.4	8.2	9	9.7	10.4	11.3	12	12	12.6	12.4	12.3	11.5	12.1	12.4	13.1	12.9	11.8	10.7	8.9	8.3	7.1	13.1	10.5
May 28	8.5	9	9.1	9.1	8.9	8.8	8.7	8.6	8.7	10.4	11.4	12.9	13.5	12.8	13.8	14.2	13.2	14	14.9	14.8	13	12.1	11.2	9.6	8.5	14.9	11.3
May 29	9.1	7.2	6.5	5.9	5.4	6.4	9.5	11	12.5	14.1	15.9	17.2	18.4	19.3	19.8	19.6	19.9	20.5	19.8	19.3	17.8	14.6	12.6	11.3	5.4	20.5	13.9
May 30	8.6	7.1	6.8	6	5.8	7.5	10.6	12.8	15.1	16.9	18.4	19.5	20.9	22	22.7	22.8	22.5	21.5	20.4	19.3	15.7	13	13	13.5	5.8	22.8	15.1
May 31	13.4	12.8	11.6	10.6	10.2	10.7	12.1	13	14.7	17	18.7	20.4	21.8	22.7	23.4	24	24	24	23	21.7	20.9	19.5	18.4	18.6	10.2	24.0	17.8
Diurnal Maximum	15.3	13.8	13.5	12.6	11.8	11.6	12.4	15.0	16.9	19.0	20.4	21.4	22.4	22.7	23.6	24.0	24.0	24.0	23.5	22.7	20.9	19.5	18.4	18.6			
Diurnal Average	7.8	7.0	6.5	5.9	5.5	5.7	6.9	8.4	10.1	11.4	12.6	13.6	14.4	14.8	15.2	15.4	15.4	15.3	15.0	14.2	12.5	10.5	9.5	9.0			

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 - May 2021

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

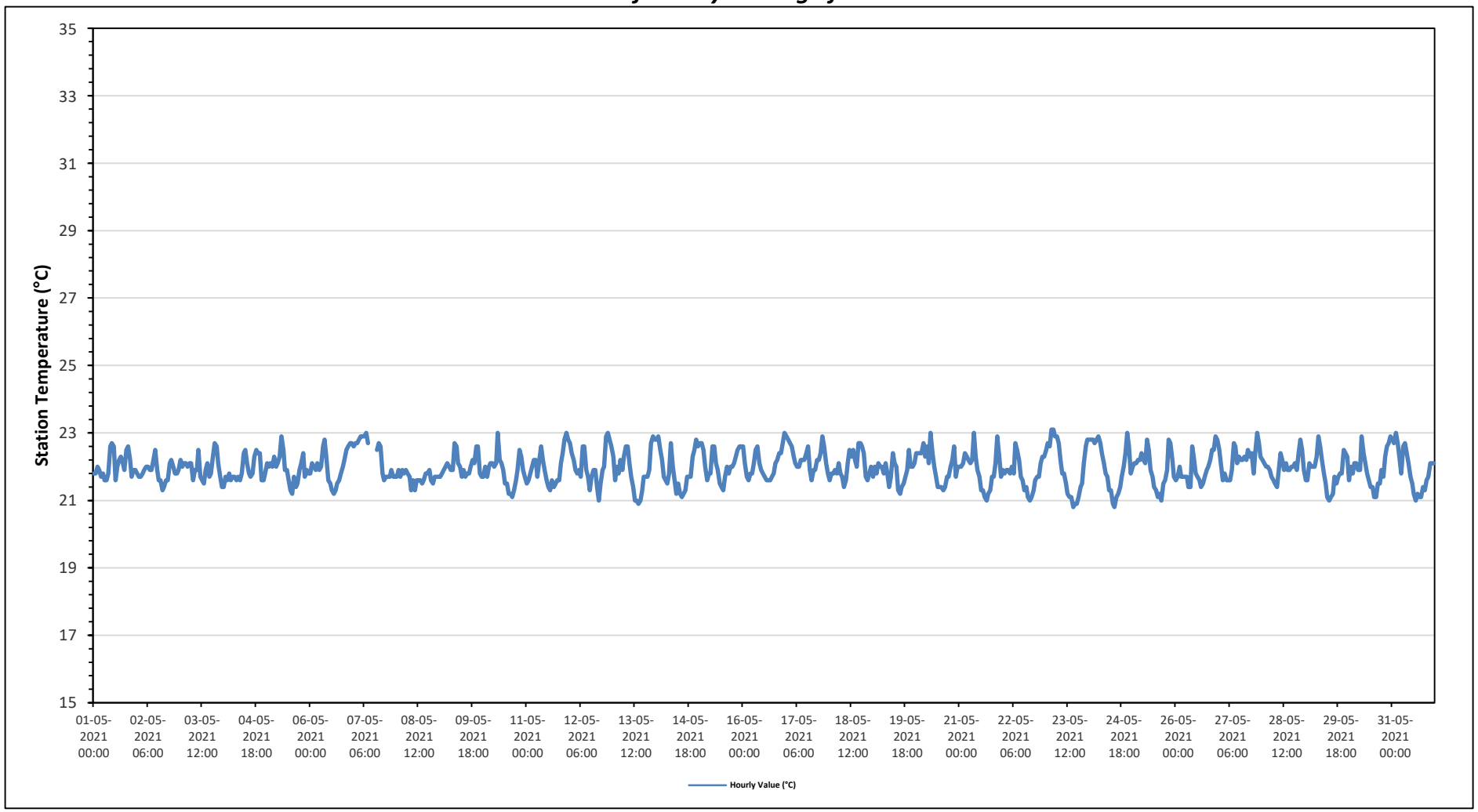
Maximum Hourly Value:	23.1	°C	on May 23 at hour 3	Hours in Service:	744
Maximum Daily Value:	22.3	°C	on May 7	Hours of Data:	740
Minimum Hourly Value:	20.8	°C	on May 23 at hour 15	Hours of Missing Data:	4
Minimum Daily Value:	21.7	°C	on May 8	Hours of Calibration:	0
Monthly Average:	22.0	°C		Operational Uptime:	99.5

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
May 1	21.8	21.8	22.0	21.9	21.7	21.8	21.6	21.6	21.8	22.6	22.7	22.6	21.6	22.0	22.2	22.3	22.1	21.9	22.5	22.6	22.2	21.7	21.9	21.9	21.6	22.7	22.0
May 2	21.8	21.7	21.7	21.8	21.9	22.0	22.0	21.9	21.9	22.2	22.5	21.9	21.6	21.6	21.3	21.4	21.6	21.6	22.1	22.2	22.0	21.8	21.8	21.9	21.3	22.5	21.8
May 3	22.2	22.0	22.1	22.1	22.0	22.1	22.1	21.6	21.9	21.9	22.5	21.7	21.6	21.5	21.9	22.1	21.7	21.8	22.3	22.7	22.6	22.1	21.7	21.4	21.4	22.7	22.0
May 4	21.4	21.7	21.6	21.8	21.6	21.7	21.7	21.6	21.7	21.6	21.8	22.4	22.5	22.1	21.8	21.7	21.8	22.3	22.5	22.4	22.4	21.6	21.6	21.8	21.4	22.5	21.9
May 5	22.1	22.0	22.1	22.0	22.3	22.0	22.1	22.3	22.9	22.5	21.9	21.9	21.6	21.3	21.2	21.7	21.4	21.5	21.9	22.1	22.4	21.7	21.9	21.8	21.2	22.9	21.9
May 6	21.8	22.1	22.0	21.9	22.1	21.9	22.0	22.6	22.8	22.2	21.6	21.5	21.3	21.2	21.3	21.5	21.6	21.8	22.0	22.2	22.5	22.6	22.7	22.7	21.2	22.8	22.0
May 7	22.6	22.7	22.7	22.8	22.9	22.9	22.9	23.0	22.7	P	P	P	P	22.5	22.7	22.6	21.8	21.6	21.7	21.7	21.7	21.9	21.7	21.7	21.6	23.0	**22.3**
May 8	21.7	21.9	21.7	21.9	21.8	21.9	21.8	21.7	21.3	21.6	21.3	21.6	21.6	21.6	21.5	21.6	21.8	21.8	21.9	21.6	21.5	21.7	21.7	21.7	21.3	21.9	21.7
May 9	21.7	21.8	21.9	22.0	22.1	22.0	21.9	21.9	22.7	22.6	22.1	22.0	21.7	21.9	21.7	21.8	21.8	22.0	22.2	22.1	22.6	22.6	21.8	21.7	21.7	22.7	22.0
May 10	21.7	22.0	21.7	22.0	22.1	22.1	22.0	22.1	23.0	22.2	22.1	21.9	21.5	21.5	21.2	21.2	21.1	21.3	21.6	21.9	22.5	22.3	21.9	21.7	21.1	23.0	21.9
May 11	21.5	21.6	21.8	22.0	22.2	22.2	21.7	22.2	22.6	22.2	21.9	21.6	21.4	21.3	21.6	21.4	21.5	21.6	21.6	22.1	22.4	22.8	23.0	22.8	21.3	23.0	22.0
May 12	22.7	22.4	22.2	21.9	21.8	21.9	21.7	22.6	22.6	21.9	21.7	21.3	21.7	21.9	21.9	21.4	21.0	21.5	21.9	22.0	22.9	23.0	22.8	22.6	21.0	23.0	22.1
May 13	22.3	21.6	22.0	21.8	22.2	21.9	22.3	22.6	22.6	22.1	21.7	21.4	21.0	21.0	20.9	21.0	21.3	21.7	21.7	21.7	21.9	22.7	22.9	22.8	20.9	22.9	21.9
May 14	22.8	22.9	22.5	22.2	21.7	21.6	21.5	21.8	22.7	22.0	21.6	21.2	21.5	21.2	21.1	21.2	21.3	21.7	21.7	21.7	22.3	22.5	22.8	22.6	21.1	22.9	21.9
May 15	22.7	22.7	22.5	22.0	21.6	21.8	21.8	22.6	22.6	22.1	21.9	21.5	21.4	21.3	21.7	22.0	21.8	22.0	22.0	22.1	22.3	22.5	22.6	22.6	21.3	22.7	22.1
May 16	22.6	22.1	21.7	21.6	21.8	21.8	22.1	22.5	22.6	22.1	21.9	21.8	21.7	21.6	21.6	21.6	21.7	21.8	22.1	22.2	22.4	22.4	22.7	23.0	21.6	23.0	22.1
May 17	22.9	22.8	22.7	22.6	22.3	22.1	22.0	22.0	22.2	22.2	22.2	22.4	22.6	21.9	21.6	21.9	21.9	22.2	22.2	22.4	22.9	22.6	22.1	21.8	21.6	22.9	22.3
May 18	21.6	21.8	21.8	21.9	21.8	22.1	21.8	21.7	21.4	21.6	22.1	22.5	22.3	22.5	22.2	22.0	22.7	22.7	22.6	22.4	21.7	21.6	21.8	22.0	21.4	22.7	22.0
May 19	21.7	22.0	21.8	22.1	22.0	22.0	21.8	22.1	21.8	21.4	21.7	22.4	22.1	22.0	21.3	21.2	21.4	21.5	21.7	21.9	22.5	22.0	22.0	22.1	21.2	22.5	21.9
May 20	22.4	22.4	22.4	22.4	22.7	22.3	22.6	22.1	23.0	22.4	22.0	21.7	21.4	21.4	21.4	21.3	21.4	21.7	21.7	22.0	22.2	22.6	21.7	22.0	21.3	23.0	22.1
May 21	22.0	22.0	22.1	22.4	22.3	22.2	22.1	22.2	23.0	22.3	21.9	21.7	21.3	21.3	21.1	21.0	21.2	21.3	21.7	21.7	22.1	22.9	22.3	21.7	21.0	23.0	21.9
May 22	21.9	21.8	21.9	21.9	21.8	22.0	21.8	22.7	22.5	22.2	21.7	21.6	21.3	21.4	21.1	21.0	21.1	21.3	21.6	21.7	21.7	22.1	22.3	22.3	21.0	22.7	21.8
May 23	22.5	22.7	22.6	**23.1**	**23.1**	22.9	22.9	22.7	22.2	21.8	21.8	21.5	21.2	21.1	21.1	**20.8**	20.9	20.9	21.1	21.4	21.5	22.1	22.6	22.8	**20.8**	**23.1**	22.0
May 24	22.8	22.8	22.8	22.7	22.8	22.9	22.7	22.4	22.1	21.8	21.7	21.3	21.3	20.9	**20.8**	21.1	21.2	21.4	21.7	22.0	22.4	23.0	22.6	21.8	**20.8**	23.0	22.0
May 25	22.0	22.1	22.1	22.2	22.2	22.4	22.2	22.1	22.8	22.5	21.9	21.7	21.4	21.3	21.1	21.2	21.0	21.5	21.6	21.9	22.8	22.7	22.2	21.7	21.0	22.8	21.9
May 26	21.6	21.7	22.0	21.7	21.7	21.7	21.7	21.4	21.4	22.6	22.3	21.8	21.7	21.6	21.4	21.5	21.7	21.9	22.0	22.2	22.5	22.5	22.9	22.8	21.4	22.9	21.9
May 27	22.5	22.1	21.6	21.8	21.6	21.6	21.6	21.9	22.7	22.6	22.1	22.3	22.2	22.2	22.3	22.2	22.5	22.3	22.4	21.8	22.4	23.0	22.7	22.3	21.6	23.0	22.2
May 28	22.2	22.1	22.0	22.0	21.9	21.7	21.6	21.5	21.4	21.9	22.4	22.2	21.9	22.1	21.9	21.9	22.0	22.0	22.1	21.9	22.4	22.8	22.5	21.9	21.4	22.8	22.0
May 29	21.6	21.6	22.1	22.0	22.0	22.0	22.3	22.9	22.6	22.2	21.8	21.5	21.1	21.0	21.1	21.2	21.7	21.5	21.7	21.8	21.8	22.5	22.4	22.3	21.0	22.9	21.9
May 30	21.6	22.0	21.8	22.1	22.1	21.9	21.9	22.9	22.4	22.1	21.8	21.6	21.4	21.4	21.1	21.1	21.5	21.5	21.9	21.7	22.3	22.6	22.7	22.9	21.1	22.9	21.9
May 31	22.8	22.7	23.0	22.7	22.2	21.8	22.6	22.7	22.4	22.1	21.7	21.5	21.2	21.0	21.2	21.1	21.1	21.4	21.3	21.6	21.7	22.1	22.1	22.1	21.0	23.0	21.9
Diurnal Maximum	22.9	22.9	23.0	23.1	23.1	22.9	22.9	23.0	23.0	22.6	22.7	22.6	22.6	22.5	22.7	22.6	22.7	22.7	22.6	22.7	22.9	23.0	23.0	23.0			
Diurnal Average	22.1	22.1	22.1	22.1	22.1	22.0	22.0	22.2	22.3	22.1	21.9	21.8	21.6	21.6	21.5	21.5	21.6	21.7	21.9	22.0	22.2	22.4	22.3	22.2			

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 ST - 842b Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

PRECIPITATION in mm

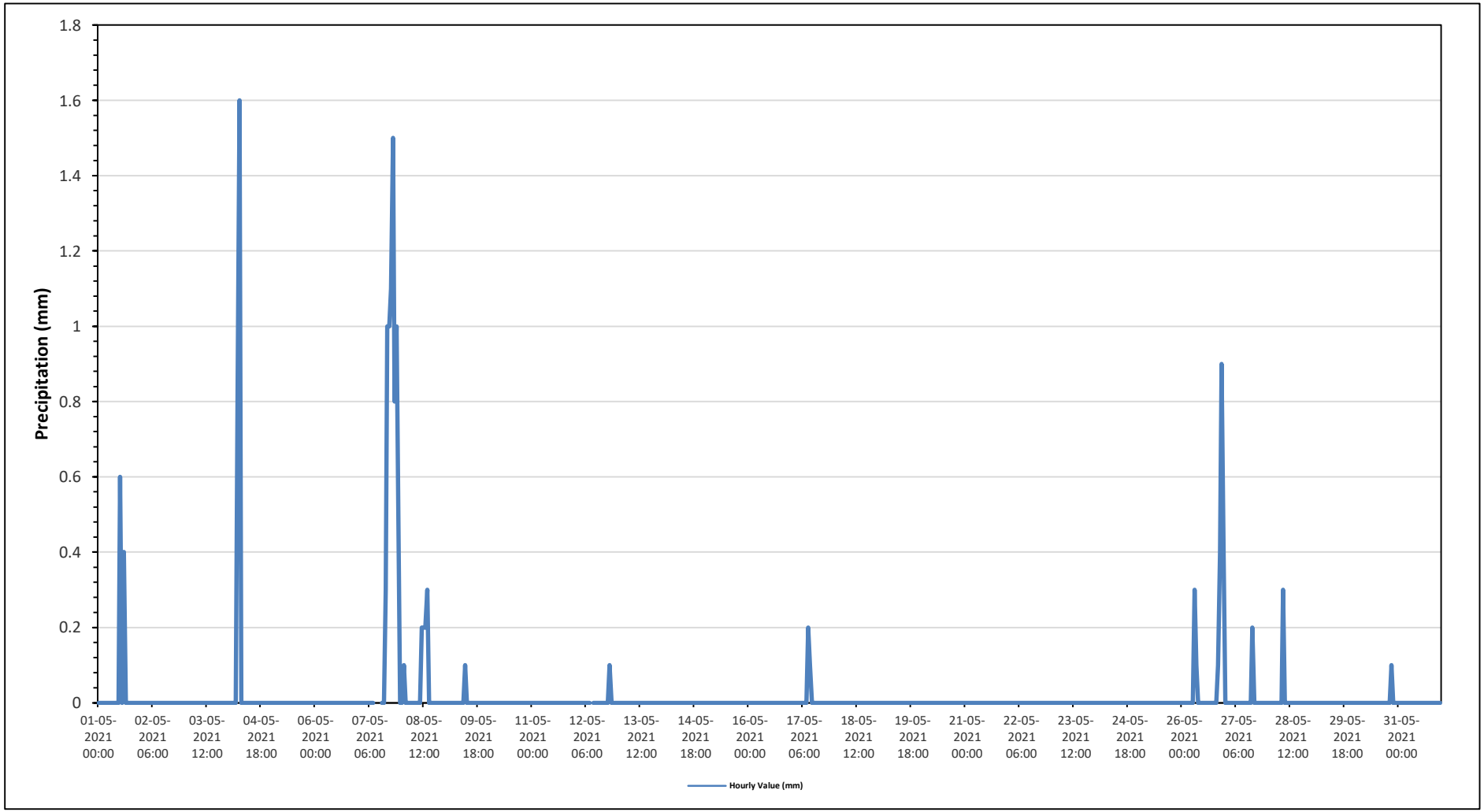
Maximum Hourly Value:	1.6	mm	on May 4 at hour 6	Hours in Service:	744
Maximum Daily Value:	7.2	mm	on May 7	Hours of Data:	739
Minimum Hourly Value:	0.0	mm	on May 1 at hour 0	Hours of Missing Data:	4
Minimum Daily Value:	0.0	mm	on May 2	Hours of Calibration:	1
Monthly Total:	14.9	mm		Operational Uptime:	99.5

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	Total
May 1	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0	0.4	0	0	0	0	0	0	0	0	0	0.0	0.6	1.0
May 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
May 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 4	0	0	0	0	0	0.8	**1.6**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	**1.6**	2.4
May 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
May 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
May 7	0	0	0	0	0	0	0	0	0	**P**	**P**	**P**	**P**	0	0	0.3	1	1	1.1	1.5	0.8	1	0.5	0	0.0	1.5	**7.2**
May 8	0	0.1	0	0	0	0	0	0	0	0	0	0.2	0.2	0.2	0.3	0	0	0	0	0	0	0	0	0	0.0	0.3	1.0
May 9	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
May 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
May 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
May 12	0	0	0	0	0	0	0	0	0	**C**	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0.0	0.1	0.1
May 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
May 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
May 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
May 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
May 17	0	0	0	0	0	0	0	0	0	0.2	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	0.3
May 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	0.0	0.0	0.0
May 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
May 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
May 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
May 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
May 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
May 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
May 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 26	0	0	0	0	0	0	0	0.3	0.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.9	0.4	0.0	0.9	2.2
May 27	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	0.2	0.2
May 28	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.3	0.3
May 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 30	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	0.0	0.1	0.1
May 31	0	0	0	0	0	0	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	0.1	0.0	0.0	0.0	0.8	1.6	0.3	0.3	0.2	0.1	0.2	0.6	0.2	0.4	0.3	1.0	1.0	1.1	1.5	0.8	1.0	0.9	0.4			
Diurnal Average	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	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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 pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

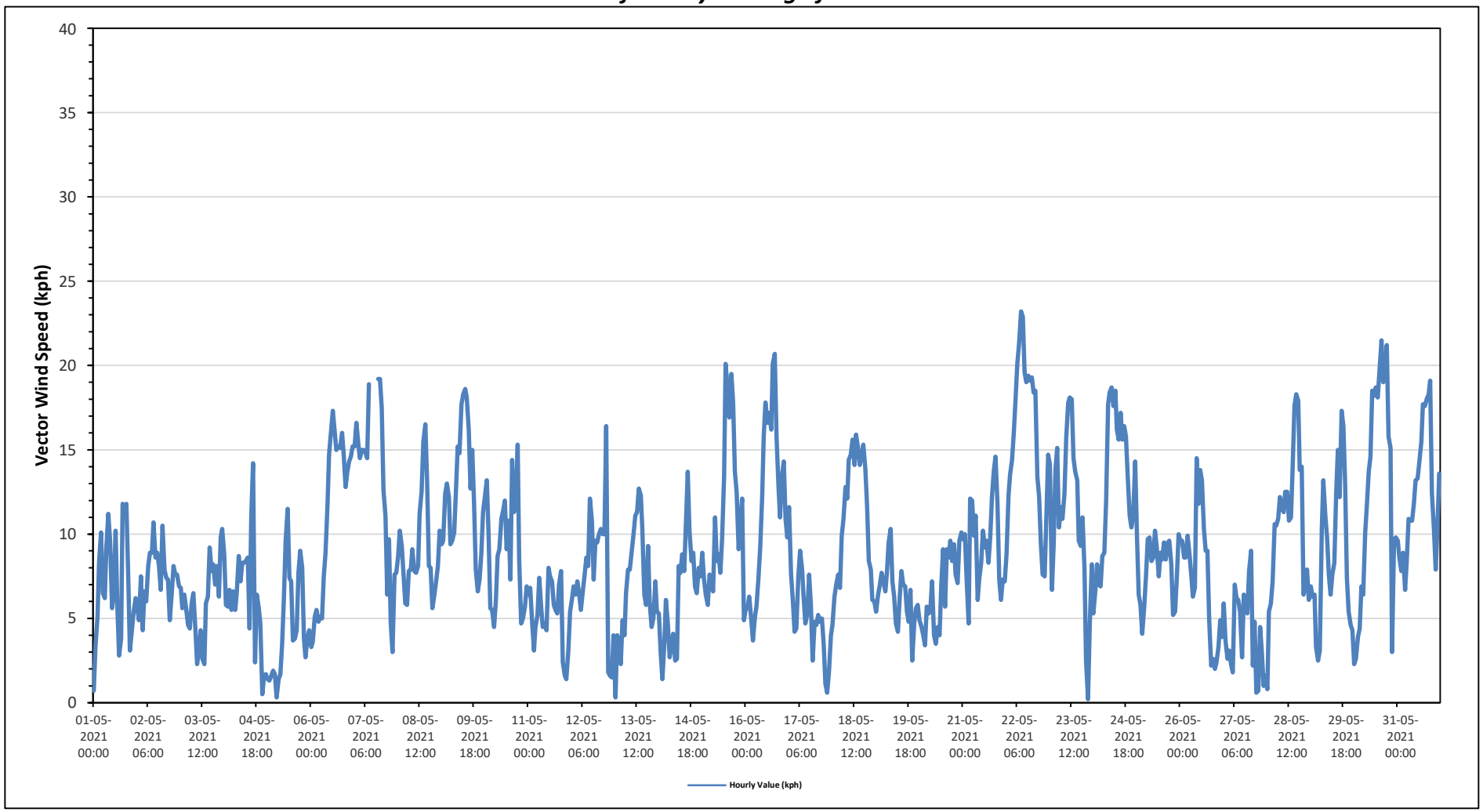
Maximum Hourly Value:	23.2	kph	on May 22 at hour 8	Hours in Service:	744
Maximum Daily Value:	15.3	kph	on May 22	Hours of Data:	740
Minimum Hourly Value:	0.2	kph	on May 23 at hour 21	Hours of Missing Data:	4
Minimum Daily Value:	1.9	kph	on May 5	Hours of Calibration:	0
Monthly Average:	1.8	kph		Operational Uptime:	99.5

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
May 1	0.7	3.4	5.1	8.3	10.1	6.5	6.2	9.2	11.2	9.6	5.6	6.3	10.2	5.7	2.8	3.8	11.8	11.4	11.8	7.1	3.1	4.3	5.4	6.2	0.7	11.8	3.8
May 2	5.7	4.9	7.5	4.3	6.6	6.0	8.1	8.9	8.9	10.7	8.6	8.9	8.1	6.7	10.5	7.9	7.4	7.3	4.9	6.5	8.1	7.6	7.6	6.9	4.3	10.7	6.0
May 3	6.8	5.6	6.4	5.6	4.6	4.4	5.9	6.5	4.4	2.3	3.1	4.3	2.6	2.3	5.9	6.3	9.2	7.8	8.2	7.0	8.1	6.3	9.8	10.3	2.3	10.3	5.8
May 4	8.8	5.8	5.7	6.7	5.5	6.6	5.5	6.5	8.7	7.2	8.3	8.3	8.4	8.6	4.4	11.1	14.2	2.4	6.4	5.6	4.7	0.5	1.6	1.7	0.5	14.2	2.5
May 5	1.4	1.3	1.6	1.9	1.7	0.3	1.4	1.7	3.5	6.2	9.6	11.5	7.4	7.2	3.7	3.8	4.3	7.7	9.0	8.0	3.8	2.7	3.9	4.3	0.3	11.5	**1.9**
May 6	3.3	3.6	5.1	5.5	4.8	5.1	5.0	7.5	8.9	11.8	14.7	16.1	17.3	16.0	15.0	15.2	15.1	16.0	14.8	12.8	13.7	14.3	14.6	15.2	3.3	17.3	11.0
May 7	15.2	16.6	15.3	14.5	15.0	15.0	14.8	14.5	18.9	**P**	**P**	**P**	**P**	19.2	19.2	17.5	12.6	11.1	6.4	9.7	4.7	3.0	7.6	7.7	3.0	19.2	12.6
May 8	8.6	10.2	9.3	7.6	5.9	5.8	7.8	7.9	9.1	7.8	7.7	8.1	11.2	12.5	15.5	16.5	13.1	8.1	8.0	5.6	6.4	7.1	8.1	10.2	5.6	16.5	8.6
May 9	9.4	9.6	12.4	13.0	12.2	9.4	9.6	10.1	12.6	15.2	14.8	17.7	18.3	18.6	18.1	16.2	12.7	15.0	11.9	7.9	6.6	7.3	8.8	11.3	6.6	18.6	11.2
May 10	12.3	13.2	10.0	5.6	5.5	4.5	6.0	8.7	9.1	10.9	11.4	12.0	9.1	10.8	7.3	14.4	11.3	11.5	15.3	8.5	4.7	5.0	5.7	6.9	4.5	15.3	3.4
May 11	6.4	6.8	4.7	3.1	4.5	5.2	7.4	5.6	4.5	4.7	4.3	8.0	7.5	7.2	5.8	5.5	5.3	7.0	7.8	2.4	1.6	1.4	3.1	5.4	1.4	8.0	3.6
May 12	6.2	6.9	6.4	7.2	6.5	5.5	6.5	7.6	8.6	8.1	12.1	10.8	7.3	9.6	9.5	10.0	10.3	10.0	10.0	16.4	1.8	1.6	1.5	4.0	1.5	16.4	5.1
May 13	0.3	4.0	3.4	2.3	4.9	4.0	6.5	7.9	7.9	9.0	10.0	11.1	11.3	12.7	12.3	10.3	6.4	5.8	9.3	6.0	4.5	5.0	7.2	5.4	0.3	12.7	6.1
May 14	5.3	3.0	1.4	3.6	6.1	4.6	2.7	3.5	4.1	2.5	2.6	8.1	7.7	8.8	7.8	10.7	13.7	10.2	8.4	8.9	6.9	6.5	8.0	7.5	1.4	13.7	3.0
May 15	8.9	7.3	6.4	5.8	7.6	7.3	6.6	11.0	8.4	8.8	7.7	9.7	13.4	20.1	18.6	16.9	19.5	17.8	13.7	12.5	9.1	10.8	12.1	4.9	4.9	20.1	10.0
May 16	5.5	5.7	6.3	5.0	3.7	5.1	5.7	7.4	9.2	12.3	15.8	17.8	16.6	17.2	16.2	20.1	20.7	15.8	12.8	11.0	13.5	14.3	10.9	9.8	3.7	20.7	8.6
May 17	11.6	7.6	6.1	4.2	4.4	7.5	9.0	7.9	6.3	4.7	5.3	7.6	5.8	2.5	4.8	4.6	5.2	4.8	5.0	3.5	1.1	0.6	1.8	4.0	0.6	11.6	2.5
May 18	4.6	6.3	7.0	7.6	6.8	9.9	10.9	12.8	12.1	14.4	14.7	15.6	14.1	15.9	15.1	14.1	14.7	15.3	13.9	11.7	8.4	7.9	6.1	6.0	4.6	15.9	10.7
May 19	5.4	6.4	6.9	7.7	7.2	6.6	7.7	9.5	10.3	7.2	6.3	4.7	4.2	6.2	7.8	7.0	6.9	5.4	4.8	6.7	2.5	4.7	5.6	5.8	2.5	10.3	5.1
May 20	4.9	4.5	4.0	3.4	5.7	5.3	5.7	7.2	4.0	3.5	4.5	4.0	7.0	9.1	5.7	9.1	8.6	9.6	8.4	9.4	7.6	7.1	9.6	10.1	3.4	10.1	4.6
May 21	9.7	10.0	7.3	4.7	12.1	12.0	9.9	11.1	6.1	7.3	8.3	10.2	9.2	9.6	8.3	9.8	12.2	13.7	14.6	11.8	7.3	6.1	7.3	7.2	4.7	14.6	8.8
May 22	8.8	12.3	13.5	14.4	16.0	18.0	20.1	21.3	**23.2**	22.9	19.6	19.0	19.4	19.1	19.3	18.4	18.5	13.4	12.2	9.4	7.6	7.5	11.1	14.7	7.5	**23.2**	**15.3**
May 23	14.1	6.7	9.4	13.8	15.1	10.4	11.6	10.9	12.4	15.7	17.8	18.1	18.0	14.5	13.7	13.2	9.6	9.3	11.0	7.9	2.5	**0.2**	4.7	8.2	**0.2**	18.1	7.3
May 24	5.3	6.6	8.2	7.0	6.9	8.7	8.9	11.9	17.7	18.4	18.7	17.6	18.5	16.2	15.6	17.2	15.6	16.4	15.8	13.2	11.1	10.4	11.1	14.3	5.3	18.7	12.6
May 25	9.9	6.4	5.8	4.1	5.7	7.5	9.7	9.8	8.4	8.6	10.2	9.2	7.5	8.9	8.5	9.5	8.5	9.5	9.6	8.2	5.2	5.4	7.4	10.0	4.1	10.2	7.6
May 26	9.6	9.6	8.6	8.6	9.9	8.9	7.5	6.3	6.8	14.5	11.8	13.8	13.2	10.3	9.0	9.0	4.9	2.2	2.6	2.0	2.4	3.3	4.9	3.9	2.0	14.5	4.9
May 27	5.9	3.7	2.6	3.1	2.3	1.8	7.0	6.2	6.1	5.4	2.7	6.4	5.7	5.3	7.8	9.0	2.2	4.8	0.6	0.7	4.5	3.0	1.0	1.6	0.6	9.0	2.2
May 28	0.8	5.4	5.9	7.2	10.6	10.5	10.9	12.2	11.5	11.3	12.5	12.5	10.8	11.0	13.6	17.6	18.3	17.9	13.8	14.0	6.4	6.9	7.9	6.1	0.8	18.3	9.1
May 29	6.9	6.3	6.4	3.3	2.5	3.1	10.3	13.2	11.1	9.8	7.6	6.4	7.6	8.3	12.3	15.0	12.2	17.3	16.4	13.0	7.4	5.4	4.6	4.3	2.5	17.3	8.3
May 30	2.3	2.6	3.9	4.4	6.9	6.4	10.1	11.8	13.7	14.6	18.5	18.2	18.7	18.1	19.7	21.5	19.0	19.5	21.2	15.8	15.1	3.0	9.7	9.8	2.3	21.5	11.0
May 31	9.6	8.6	7.8	8.9	6.7	8.2	10.9	10.8	10.8	11.8	13.2	13.3	14.3	15.5	17.7	17.6	18.0	18.3	19.1	12.4	10.3	7.9	10.4	13.6	6.7	19.1	12.0
Diurnal Maximum	15	17	15	15	16	18	20	21	23	23	20	19	19	20	20	22	21	20	21	16	15	14	15	15			
Diurnal Average	6.9	6.8	6.8	6.5	7.2	7.1	8.3	9.3	9.6	9.9	10.3	11.2	11.0	11.4	11.3	12.2	11.7	11.0	10.6	8.9	6.5	5.7	7.1	7.7			

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.

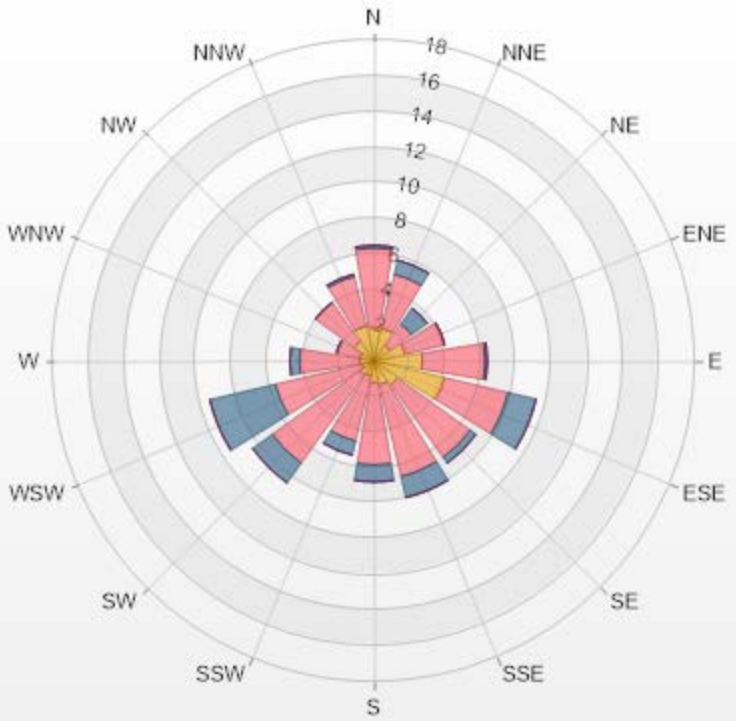
Timeseries Chart of Hourly Average for VWS - 842b Station



Wind: PRAMP 842b Monitor: WDS [KPH] Monthly: 05-2021 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 3.51% Valid Data: 99.46%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.89	4.46	0.14	0	0	6.49
NNE	1.89	3.11	0.81	0	0	5.81
NE	1.08	1.49	1.08	0	0	3.65
ENE	1.76	2.3	0	0	0	4.06
E	2.7	3.51	0.14	0	0	6.35
ESE	4.05	3.65	1.62	0	0	9.32
SE	1.62	5	0.41	0	0	7.03
SSE	1.35	5.27	1.22	0	0	7.84
S	1.22	4.59	0.95	0	0	6.76
SSW	0.81	3.78	0.81	0	0	5.4
SW	0.95	6.08	1.35	0	0	8.38
WSW	0.68	5	3.78	0	0	9.46
W	0.81	3.38	0.54	0	0	4.73
WNW	0.81	1.35	0	0	0	2.16
NW	1.35	2.7	0	0	0	4.05
NNW	2.03	2.84	0.14	0	0	5.01
Summary	25	58.51	12.99	0	0	96.5

PRAMP 842b 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 3.51% Calm Wind Avg Speed: 1.17(KPH)



% Icon Classes (KPH)	25 1.8-6.0	59 6.0-15.0	13 15.0-29.0	0 29.0-39.0	0 >39.0

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PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

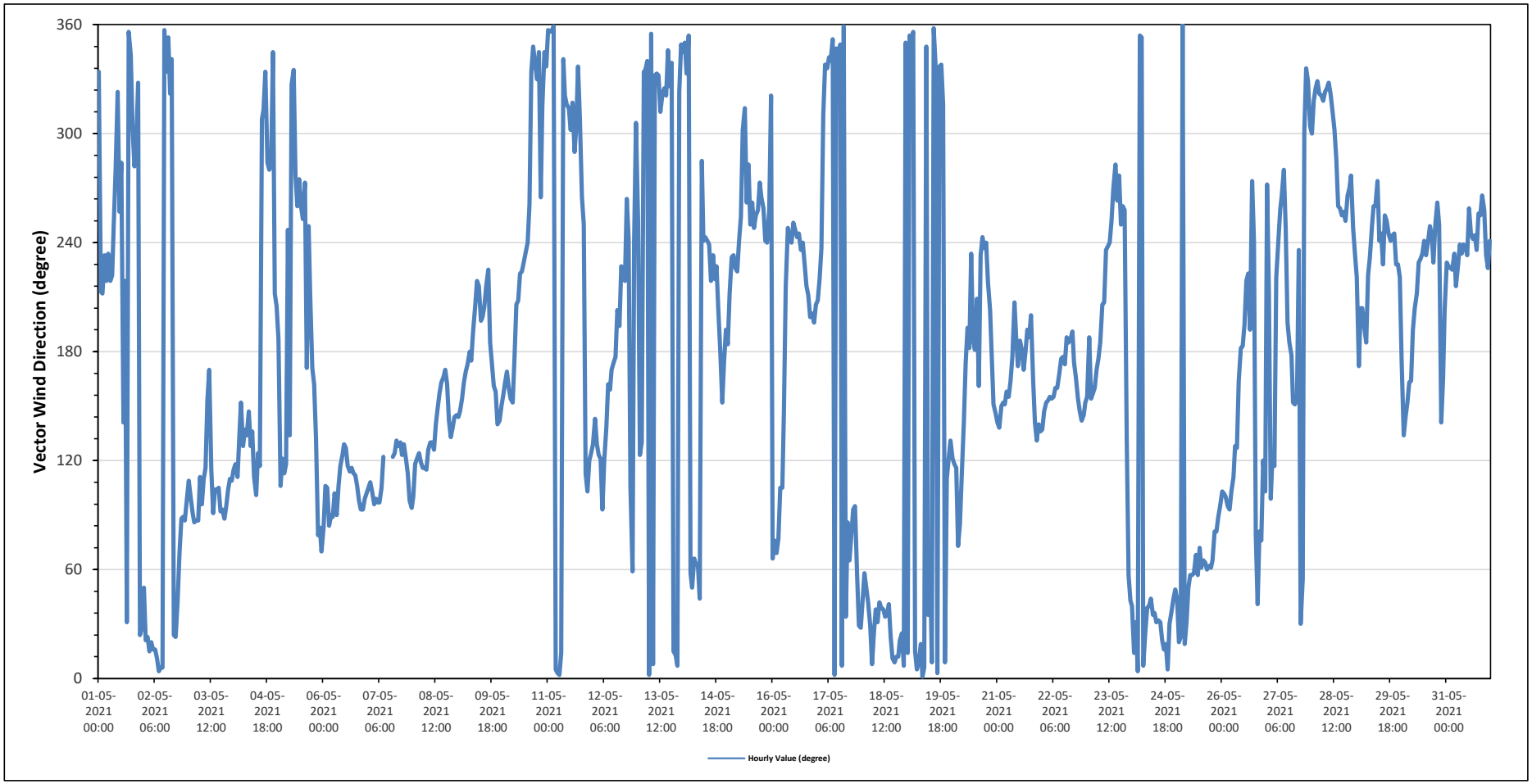
Monthly Average:	189 (S)	degree	
Hours in Service:	744		
Hours of Data:	740		
Hours of Missing Data:	4		
Hours of Calibration:	0		
Operational Uptime:	99.5		

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
May 1	NNW	SSW	SSW	SW	SW	SW	SW	SW	WSW	W	NW	WSW	WNW	SE	SW	NNE	N	NNW	WNW	W	WNW	NNW	NNE	NNE	277	W
May 2	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	NNW	N	NW	NNW	NNE	NNE	NE	ENE	E	E	E	E	21	NNE
May 3	ESE	E	E	E	E	E	ESE	E	ESE	ESE	SSE	SSE	ESE	E	ESE	ESE	ESE	E	E	E	E	ESE	ESE	ESE	103	ESE
May 4	ESE	ESE	ESE	SE	SSE	SE	SE	SE	SE	SE	SE	ESE	E	ESE	ESE	NW	NW	NNW	WNW	W	W	NNW	SSW	SSW	132	SE
May 5	S	ESE	ESE	ESE	ESE	WSW	SE	NW	NNW	W	WSW	W	WSW	WSW	W	S	WSW	SSW	S	SSE	SE	ENE	E	ENE	224	SW
May 6	E	ESE	ESE	E	E	E	E	E	ESE	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	E	108	ESE
May 7	ESE	ESE	ESE	E	E	E	E	ESE	ESE	P	P	P	P	ESE	ESE	SE	SE	SE	ESE	SE	ESE	ESE	E	E	112	ESE
May 8	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	138	SE
May 9	SE	SE	SSE	SSE	SSE	S	S	S	S	SSW	SW	SW	SSW	SSW	SSW	SW	SW	S	S	SSE	SSE	SE	SE	SSE	184	S
May 10	SSE	SSE	SSE	SSE	SSE	SSE	S	SSW	SSW	SW	SW	SW	SW	WSW	W	NNW	NNW	NNW	NNW	NNW	W	NW	NNW	NNW	245	WSW
May 11	N	N	N	N	N	N	N	NNE	NNW	NW	NW	NW	WNW	NW	WNW	WNW	NNW	NW	W	WSW	ESE	ESE	ESE	ESE	332	NNW
May 12	SE	SE	SE	ESE	ESE	E	ESE	SE	SSE	SSE	SSE	S	S	SSW	SSW	SW	SW	SW	W	WSW	ESE	ENE	WSW	NW	181	S
May 13	WSW	ESE	SE	NNW	NNW	NNW	N	N	N	NNW	NNW	NNW	NW	NW	NW	NW	NNW	NW	NNW	NNE	NNE	N	NW	NNW	339	NNW
May 14	NNW	N	NNW	N	ENE	NE	ENE	ENE	ENE	NE	WNW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	S	SSE	S	S	219	SW
May 15	S	SSW	SW	SW	SW	SW	WSW	WSW	WNW	NW	W	W	WSW	W	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	NW	255	WSW
May 16	ENE	ENE	ENE	ENE	ESE	ESE	SE	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	224	SW
May 17	SSW	SW	SW	NW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	N	N	NE	E	ENE	E	E	E	ENE	NNE	NNE	351	N
May 18	NE	ENE	NE	NE	NNE	N	NNE	NE	NNE	NE	NE	NE	NE	NE	NE	NNE	NNE	N	NNE	NNE	NNE	NNE	N	N	28	NNE
May 19	NNE	N	N	N	NNE	N	N	NNE	N	N	NNW	NE	ENE	N	N	NNW	N	NNW	NNW	NW	N	ESE	ESE	SE	7	N
May 20	ESE	ESE	ESE	ENE	E	ESE	SE	S	S	S	SW	S	S	SSW	SSE	SW	WSW	SW	WSW	SW	SSW	S	SSE	SE	183	S
May 21	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSW	S	S	S	S	SSE	S	S	S	SSW	SSE	SE	SE	SE	SE	167	SSE
May 22	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	SSE	SSE	SE	SE	SE	SSE	165	SSE
May 23	SSE	S	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SW	SW	WSW	WSW	W	W	W	W	WSW	WSW	WSW	SE	ENE	NE	217	SW
May 24	NE	NNE	NNE	N	N	N	N	NNE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NE	NE	NE	28	NNE
May 25	NE	NNE	NNE	N	NNE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	58	ENE
May 26	ESE	E	E	E	E	ESE	ESE	SE	SE	SSE	S	S	SSW	SW	SW	S	W	WSW	ENE	NE	E	ENE	ESE	ESE	145	SE
May 27	W	SSW	E	ESE	ESE	SW	WSW	WSW	W	W	WSW	SSW	S	S	SSE	SSE	SSE	SW	NNE	NE	WNW	NNW	NNW	WNW	217	SW
May 28	WNW	NW	NW	NNW	NW	NW	NW	NW	NW	NNW	NW	NW	WNW	WNW	WSW	WSW	WSW	WSW	WSW	W	W	W	WSW	SW	289	WNW
May 29	SW	S	SSW	SSW	SSW	S	SW	SW	WSW	WSW	WSW	W	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	238	SW
May 30	S	SE	SE	SSE	SSE	SSE	S	SSW	SSW	SW	SW	SW	WSW	SW	WSW	WSW	WSW	SW	WSW	W	WSW	SE	SSE	SSW	227	SW
May 31	SW	SW	SW	SW	SW	SW	SW	WSW	SW	WSW	SW	SW	WSW	WSW	WSW	WSW	SW	WSW	WSW	W	WSW	SW	SW	WSW	241	WSW

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 - 842b Station



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	23.2	kph	on May 22 at hour 8	Hours in Service:	744
Maximum Daily Value:	15.3	kph	on May 22	Hours of Data:	740
Minimum Hourly Value:	0.2	kph	on May 23 at hour 21	Hours of Missing Data:	4
Minimum Daily Value:	1.9	kph	on May 5	Hours of Calibration:	0
Monthly Average:	1.8	kph		Operational Uptime:	99.5

WIND DIRECTION

Monthly Average: 189 (S) 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			
May 1	0.7	3.4	5.1	8.3	10.1	6.5	6.2	9.2	11.2	9.6	5.6	6.3	10.2	5.7	2.8	3.8	11.8	11.4	11.8	7.1	3.1	4.3	5.4	6.2	0.7	11.8	3.8
	NNW	SSW	SSW	SW	SW	SW	SW	SW	WSW	W	NW	WSW	WNW	SE	SW	NNE	N	NNW	WNW	W	WNW	NNW	NNE	NNE			
May 2	5.7	4.9	7.5	4.3	6.6	6.0	8.1	8.9	8.9	10.7	8.6	8.9	8.1	6.7	10.5	7.9	7.4	7.3	4.9	6.5	8.1	7.6	7.6	6.9	4.3	10.7	6.0
	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	NNW	N	NW	NNW	NNE	NNE	NE	ENE	E	E	E	E			
May 3	6.8	5.6	6.4	5.6	4.6	4.4	5.9	6.5	4.4	2.3	3.1	4.3	2.6	2.3	5.9	6.3	9.2	7.8	8.2	7.0	8.1	6.3	9.8	10.3	2.3	10.3	5.8
	ESE	E	E	E	E	E	ESE	E	ESE	ESE	SSE	SSE	ESE	E	ESE	ESE	ESE	E	E	E	E	ESE	ESE	ESE			
May 4	8.8	5.8	5.7	6.7	5.5	6.6	5.5	6.5	8.7	7.2	8.3	8.3	8.4	8.6	4.4	11.1	14.2	2.4	6.4	5.6	4.7	0.5	1.6	1.7	0.5	14.2	2.5
	ESE	ESE	ESE	SE	SSE	SE	SE	SE	SE	SE	SE	ESE	E	ESE	ESE	NW	NW	NNW	WNW	W	W	NNW	SSW	SSW			
May 5	1.4	1.3	1.6	1.9	1.7	0.3	1.4	1.7	3.5	6.2	9.6	11.5	7.4	7.2	3.7	3.8	4.3	7.7	9.0	8.0	3.8	2.7	3.9	4.3	0.3	11.5	**1.9**
	S	ESE	ESE	ESE	ESE	WSW	SE	NW	NNW	W	WSW	W	WSW	WSW	W	S	WSW	SSW	S	SSE	SE	ENE	E	ENE			
May 6	3.3	3.6	5.1	5.5	4.8	5.1	5.0	7.5	8.9	11.8	14.7	16.1	17.3	16.0	15.0	15.2	15.1	16.0	14.8	12.8	13.7	14.3	14.6	15.2	3.3	17.3	11.0
	E	ESE	ESE	E	E	E	E	E	ESE	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	E			
May 7	15.2	16.6	15.3	14.5	15.0	15.0	14.8	14.5	18.9	**P**	**P**	**P**	**P**	19.2	19.2	17.5	12.6	11.1	6.4	9.7	4.7	3.0	7.6	7.7	3.0	19.2	12.6
	ESE	ESE	ESE	E	E	E	E	ESE	ESE	**P**	**P**	**P**	**P**	ESE	ESE	SE	SE	SE	ESE	SE	ESE	ESE	E	E			
May 8	8.6	10.2	9.3	7.6	5.9	5.8	7.8	7.9	9.1	7.8	7.7	8.1	11.2	12.5	15.5	16.5	13.1	8.1	8.0	5.6	6.4	7.1	8.1	10.2	5.6	16.5	8.6
	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE			
May 9	9.4	9.6	12.4	13.0	12.2	9.4	9.6	10.1	12.6	15.2	14.8	17.7	18.3	18.6	18.1	16.2	12.7	15.0	11.9	7.9	6.6	7.3	8.8	11.3	6.6	18.6	11.2
	SE	SE	SSE	SSE	SSE	S	S	S	S	SSW	SW	SW	SSW	SSW	SSW	SW	SW	S	S	SSE	SSE	SE	SE	SSE			
May 10	12.3	13.2	10.0	5.6	5.5	4.5	6.0	8.7	9.1	10.9	11.4	12.0	9.1	10.8	7.3	14.4	11.3	11.5	15.3	8.5	4.7	5.0	5.7	6.9	4.5	15.3	3.4
	SSE	SSE	SSE	SSE	SSE	SSE	S	SSW	SSW	SW	SW	SW	SW	WSW	W	NNW	NNW	NNW	NNW	NNW	W	NW	NNW	NNW			
May 11	6.4	6.8	4.7	3.1	4.5	5.2	7.4	5.6	4.5	4.7	4.3	8.0	7.5	7.2	5.8	5.5	5.3	7.0	7.8	2.4	1.6	1.4	3.1	5.4	1.4	8.0	3.6
	N	N	N	N	N	N	N	NNE	NNW	NW	NW	NW	WNW	NW	WNW	WNW	NNW	NW	W	WSW	ESE	ESE	ESE	ESE			
May 12	6.2	6.9	6.4	7.2	6.5	5.5	6.5	7.6	8.6	8.1	12.1	10.8	7.3	9.6	9.5	10.0	10.3	10.0	10.0	16.4	1.8	1.6	1.5	4.0	1.5	16.4	5.1
	SE	SE	SE	ESE	ESE	E	ESE	SE	SSE	SSE	SSE	S	S	SSW	SSW	SW	SW	SW	W	WSW	ESE	ENE	WSW	NW			
May 13	0.3	4.0	3.4	2.3	4.9	4.0	6.5	7.9	7.9	9.0	10.0	11.1	11.3	12.7	12.3	10.3	6.4	5.8	9.3	6.0	4.5	5.0	7.2	5.4	0.3	12.7	6.1
	WSW	ESE	SE	NNW	NNW	NNW	N	N	N	NNW	NNW	NNW	NW	NW	NW	NW	NNW	NW	NNW	NNE	NNE	N	NW	NNW			
May 14	5.3	3.0	1.4	3.6	6.1	4.6	2.7	3.5	4.1	2.5	2.6	8.1	7.7	8.8	7.8	10.7	13.7	10.2	8.4	8.9	6.9	6.5	8.0	7.5	1.4	13.7	3.0
	NNW	N	NNW	N	ENE	NE	ENE	ENE	ENE	NE	WNW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	S	SSE	S	S			
May 15	8.9	7.3	6.4	5.8	7.6	7.3	6.6	11.0	8.4	8.8	7.7	9.7	13.4	20.1	18.6	16.9	19.5	17.8	13.7	12.5	9.1	10.8	12.1	4.9	4.9	20.1	10.0
	S	SSW	SW	SW	SW	SW	WSW	WSW	WNW	NW	W	W	WSW	W	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	NW			
May 16	5.5	5.7	6.3	5.0	3.7	5.1	5.7	7.4	9.2	12.3	15.8	17.8	16.6	17.2	16.2	20.1	20.7	15.8	12.8	11.0	13.5	14.3	10.9	9.8	3.7	20.7	8.6
	ENE	ENE	ENE	ENE	ESE	ESE	SE	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW			
May 17	11.6	7.6	6.1	4.2	4.4	7.5	9.0	7.9	6.3	4.7	5.3	7.6	5.8	2.5	4.8	4.6	5.2	4.8	5.0	3.5	1.1	0.6	1.8	4.0	0.6	11.6	2.5
	SSW	SW	SW	NW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	N	N	NE	E	ENE	E	E	E	ENE	NNE	NNE			
May 18	4.6	6.3	7.0	7.6	6.8	9.9	10.9	12.8	12.1	14.4	14.7	15.6	14.1	15.9	15.1	14.1	14.7	15.3	13.9	11.7	8.4	7.9	6.1	6.0	4.6	15.9	10.7
	NE	ENE	NE	NE	NNE	N	NNE	NE	NNE	NE	NE	NE	NE	NE	NE	NNE	NNE	N	NNE	NNE	NNE	NNE	N	N			
May 19	5.4	6.4	6.9	7.7	7.2	6.6	7.7	9.5	10.3	7.2	6.3	4.7	4.2	6.2	7.8	7.0	6.9	5.4	4.8	6.7	2.5	4.7	5.6	5.8	2.5	10.3	5.1
	NNE	N	N	N	NNE	N	N	NNE	N	N	NNW	NE	ENE	N	N	NNW	N	NNW	NNW	NW	N	ESE	ESE	SE			
May 20	4.9	4.5	4.0	3.4	5.7	5.3	5.7	7.2	4.0	3.5	4.5	4.0	7.0	9.1	5.7	9.1	8.6	9.6	8.4	9.4	7.6	7.1	9.6	10.1	3.4	10.1	4.6
	ESE	ESE	ESE	ENE	E	ESE	SE	S	S	S	SW	S	S	SSW	SSE	SW	WSW	SW	WSW	SW	SSW	S	SSE	SE			

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PEACE RIVER AREA MONITORING PROGRAM

842b Station - May 2021

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	23.2	kph	on May 22 at hour 8	Hours in Service:	744
Maximum Daily Value:	15.3	kph	on May 22	Hours of Data:	740
Minimum Hourly Value:	0.2	kph	on May 23 at hour 21	Hours of Missing Data:	4
Minimum Daily Value:	1.9	kph	on May 5	Hours of Calibration:	0
Monthly Average:	1.8	kph		Operational Uptime:	99.5

WIND DIRECTION

Monthly Average: 189 (S) 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			
May 21	9.7	10.0	7.3	4.7	12.1	12.0	9.9	11.1	6.1	7.3	8.3	10.2	9.2	9.6	8.3	9.8	12.2	13.7	14.6	11.8	7.3	6.1	7.3	7.2	4.7	14.6	8.8
	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSW	S	S	S	S	SSE	S	S	S	SSW	SSE	SE	SE	SE	SE			
May 22	8.8	12.3	13.5	14.4	16.0	18.0	20.1	21.3	**23.2**	22.9	19.6	19.0	19.4	19.1	19.3	18.4	18.5	13.4	12.2	9.4	7.6	7.5	11.1	14.7	7.5	**23.2**	**15.3**
	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	SSE	SSE	SE	SE	SE	SSE			
May 23	14.1	6.7	9.4	13.8	15.1	10.4	11.6	10.9	12.4	15.7	17.8	18.1	18.0	14.5	13.7	13.2	9.6	9.3	11.0	7.9	2.5	**0.2**	4.7	8.2	**0.2**	18.1	7.3
	SSE	S	SSE	SSE	SSE	SSE	S	S	SSW	SSW	SW	SW	WSW	WSW	W	W	W	W	WSW	WSW	WSW	SE	ENE	NE			
May 24	5.3	6.6	8.2	7.0	6.9	8.7	8.9	11.9	17.7	18.4	18.7	17.6	18.5	16.2	15.6	17.2	15.6	16.4	15.8	13.2	11.1	10.4	11.1	14.3	5.3	18.7	12.6
	NE	NNE	NNE	N	N	N	N	NNE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NE	NE	NE			
May 25	9.9	6.4	5.8	4.1	5.7	7.5	9.7	9.8	8.4	8.6	10.2	9.2	7.5	8.9	8.5	9.5	8.5	9.5	9.6	8.2	5.2	5.4	7.4	10.0	4.1	10.2	7.6
	NE	NNE	NNE	N	NNE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E			
May 26	9.6	9.6	8.6	8.6	9.9	8.9	7.5	6.3	6.8	14.5	11.8	13.8	13.2	10.3	9.0	9.0	4.9	2.2	2.6	2.0	2.4	3.3	4.9	3.9	2.0	14.5	4.9
	ESE	E	E	E	E	ESE	ESE	SE	SE	SSE	S	S	SSW	SW	SW	S	W	WSW	ENE	NE	E	ENE	ESE	ESE			
May 27	5.9	3.7	2.6	3.1	2.3	1.8	7.0	6.2	6.1	5.4	2.7	6.4	5.7	5.3	7.8	9.0	2.2	4.8	0.6	0.7	4.5	3.0	1.0	1.6	0.6	9.0	2.2
	W	SSW	E	ESE	ESE	SW	WSW	WSW	W	W	WSW	SSW	S	S	SSE	SSE	SSE	SW	NNE	NE	WNW	NNW	NNW	WNW			
May 28	0.8	5.4	5.9	7.2	10.6	10.5	10.9	12.2	11.5	11.3	12.5	12.5	10.8	11.0	13.6	17.6	18.3	17.9	13.8	14.0	6.4	6.9	7.9	6.1	0.8	18.3	9.1
	WNW	NW	NW	NNW	NW	NW	NW	NW	NW	NNW	NW	NW	WNW	WNW	WSW	WSW	WSW	WSW	WSW	W	W	W	WSW	SW			
May 29	6.9	6.3	6.4	3.3	2.5	3.1	10.3	13.2	11.1	9.8	7.6	6.4	7.6	8.3	12.3	15.0	12.2	17.3	16.4	13.0	7.4	5.4	4.6	4.3	2.5	17.3	8.3
	SW	S	SSW	SSW	SSW	S	SW	SW	WSW	WSW	WSW	W	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW			
May 30	2.3	2.6	3.9	4.4	6.9	6.4	10.1	11.8	13.7	14.6	18.5	18.2	18.7	18.1	19.7	21.5	19.0	19.5	21.2	15.8	15.1	3.0	9.7	9.8	2.3	21.5	11.0
	S	SE	SE	SSE	SSE	SSE	S	SSW	SSW	SW	SW	SW	WSW	SW	WSW	WSW	WSW	SW	WSW	W	WSW	SE	SSE	SSW			
May 31	9.6	8.6	7.8	8.9	6.7	8.2	10.9	10.8	10.8	11.8	13.2	13.3	14.3	15.5	17.7	17.6	18.0	18.3	19.1	12.4	10.3	7.9	10.4	13.6	6.7	19.1	12.0
	SW	SW	SW	SW	SW	SW	SW	WSW	SW	WSW	SW	SW	WSW	WSW	WSW	WSW	SW	WSW	WSW	W	WSW	SW	SW	WSW			

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 - May 2021

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) 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

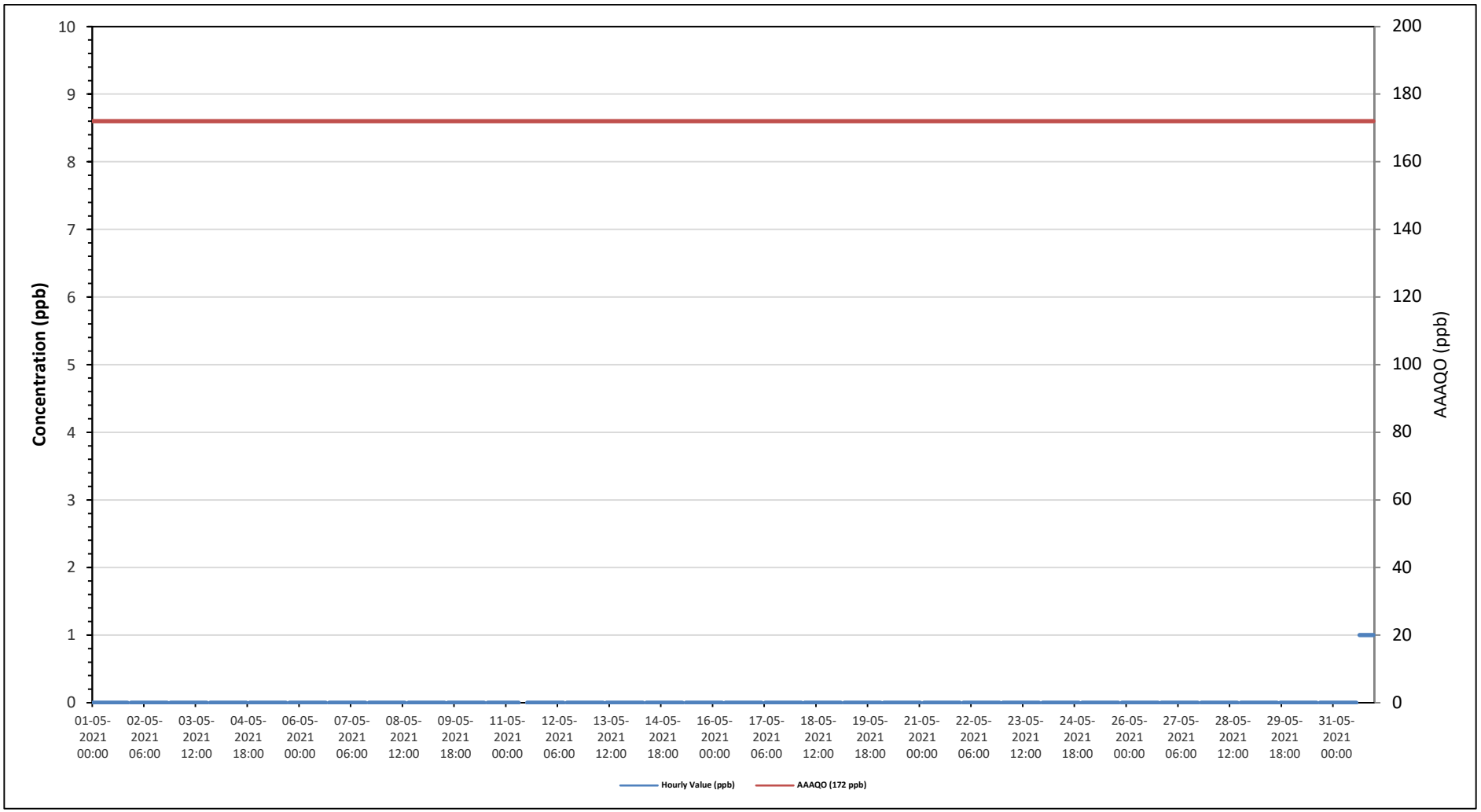
Maximum Hourly Value:	1	ppb	on May 31 at hour 15	Hours in Service:	744
Maximum Daily Value:	0.4	ppb	on May 31	Hours of Data:	709
Minimum Hourly Value:	0	ppb	on May 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on May 1	Hours of Calibration:	35
Monthly Average:	0.0	ppb		Operational Uptime:	100.0

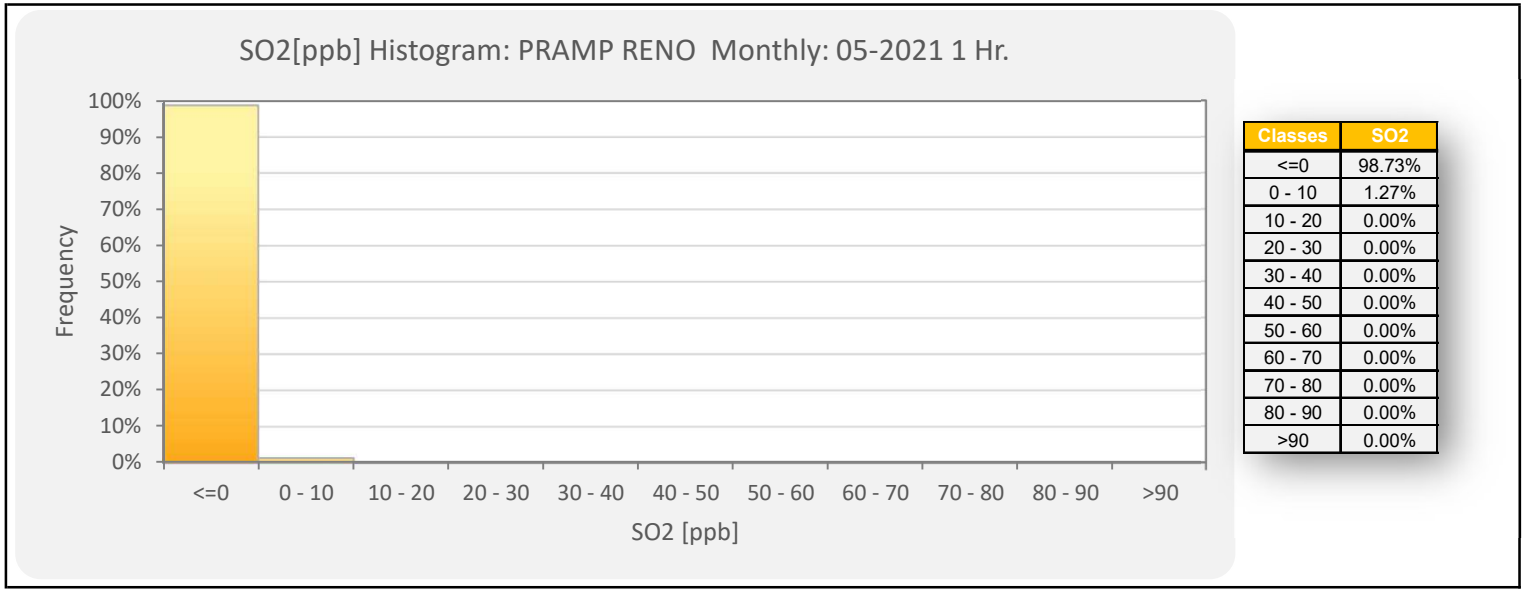
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0.0
May 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0.0
May 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
May 4	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
May 5	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
May 6	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
May 7	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
May 8	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
May 9	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
May 10	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
May 11	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 12	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
May 13	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
May 14	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
May 15	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
May 16	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
May 17	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
May 18	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
May 19	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
May 20	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
May 21	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
May 22	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	0.0
May 23	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
May 24	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
May 25	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
May 26	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
May 27	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
May 28	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
May 29	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
May 30	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
May 31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	1	1	1	1	1	1	1	1	0	1	0.4
Diurnal Maximum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1			
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			

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 - Reno Station

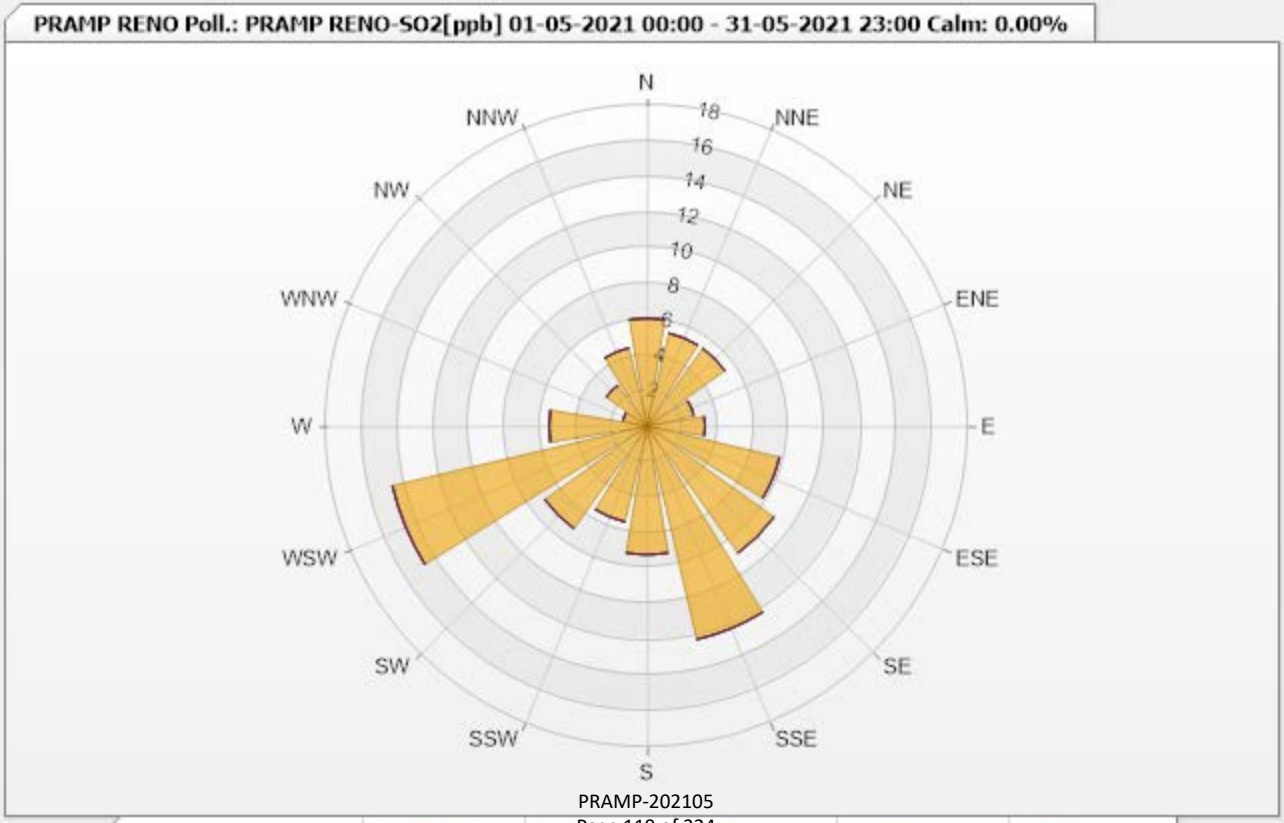




Classes	SO2
<=0	98.73%
0 - 10	1.27%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-SO2[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.30% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	6.06	0	0	0	0	6.06
NNE	5.36	0	0	0	0	5.36
NE	5.36	0	0	0	0	5.36
ENE	2.68	0	0	0	0	2.68
E	3.24	0	0	0	0	3.24
ESE	7.62	0	0	0	0	7.62
SE	8.74	0	0	0	0	8.74
SSE	12.27	0	0	0	0	12.27
S	7.19	0	0	0	0	7.19
SSW	5.5	0	0	0	0	5.5
SW	7.05	0	0	0	0	7.05
WSW	14.67	0	0	0	0	14.67
W	5.5	0	0	0	0	5.5
WNW	1.41	0	0	0	0	1.41
NW	2.82	0	0	0	0	2.82
NNW	4.51	0	0	0	0	4.51
Summary	100	0	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-SO2[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppb)
100 0-10
0 10-50
0 50-100
0 100-172
0 >172.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

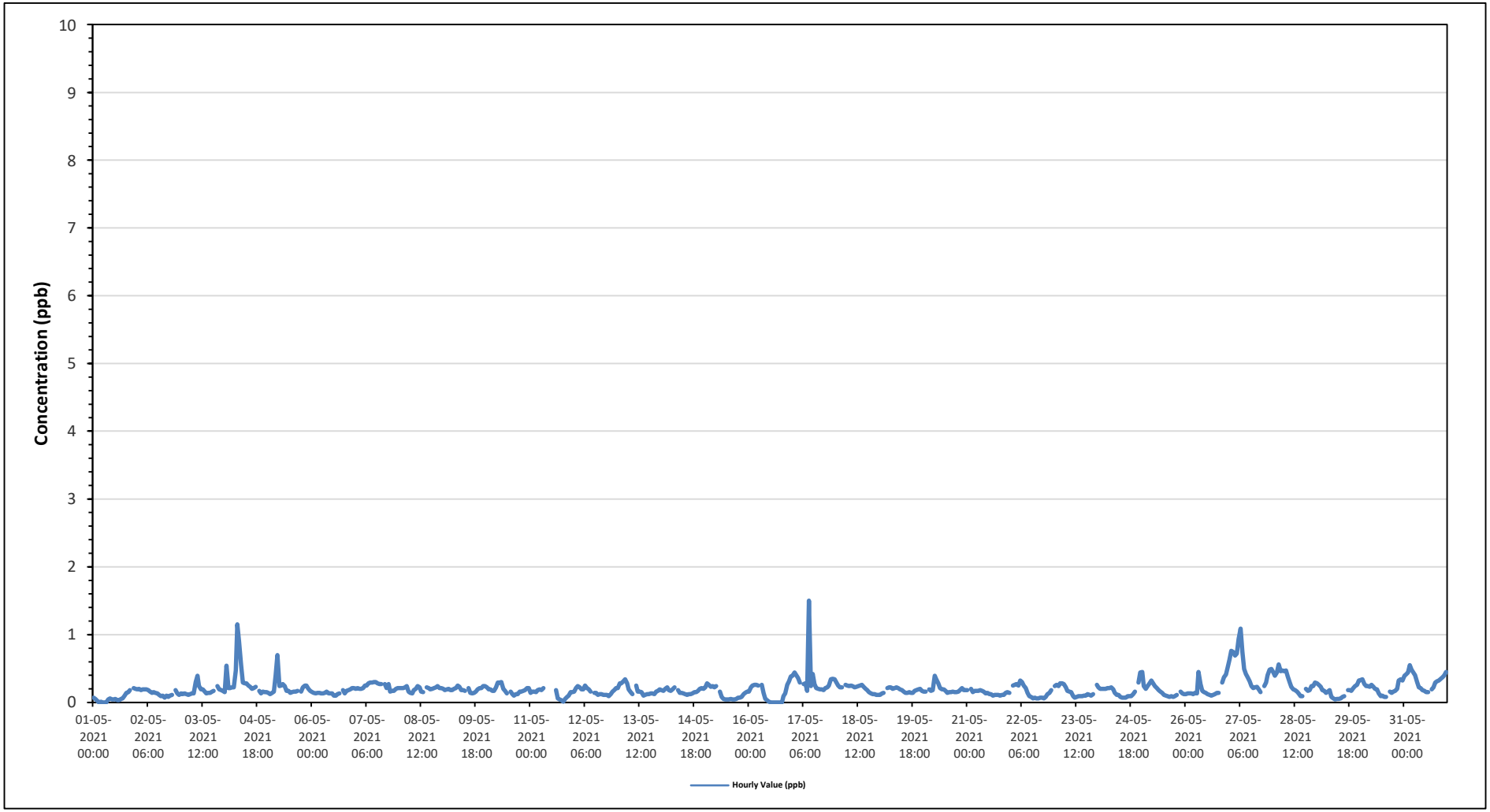
Maximum Hourly Value:	1.50	ppb	on May 17 at hour 9	Hours in Service:	744
Maximum Daily Value:	0.48	ppb	on May 27	Hours of Data:	707
Minimum Hourly Value:	0.00	ppb	on May 1 at hour 3	Hours of Missing Data:	0
Minimum Daily Value:	0.07	ppb	on May 1	Hours of Calibration:	37
Monthly Average:	0.20	ppb		Operational Uptime:	100.0

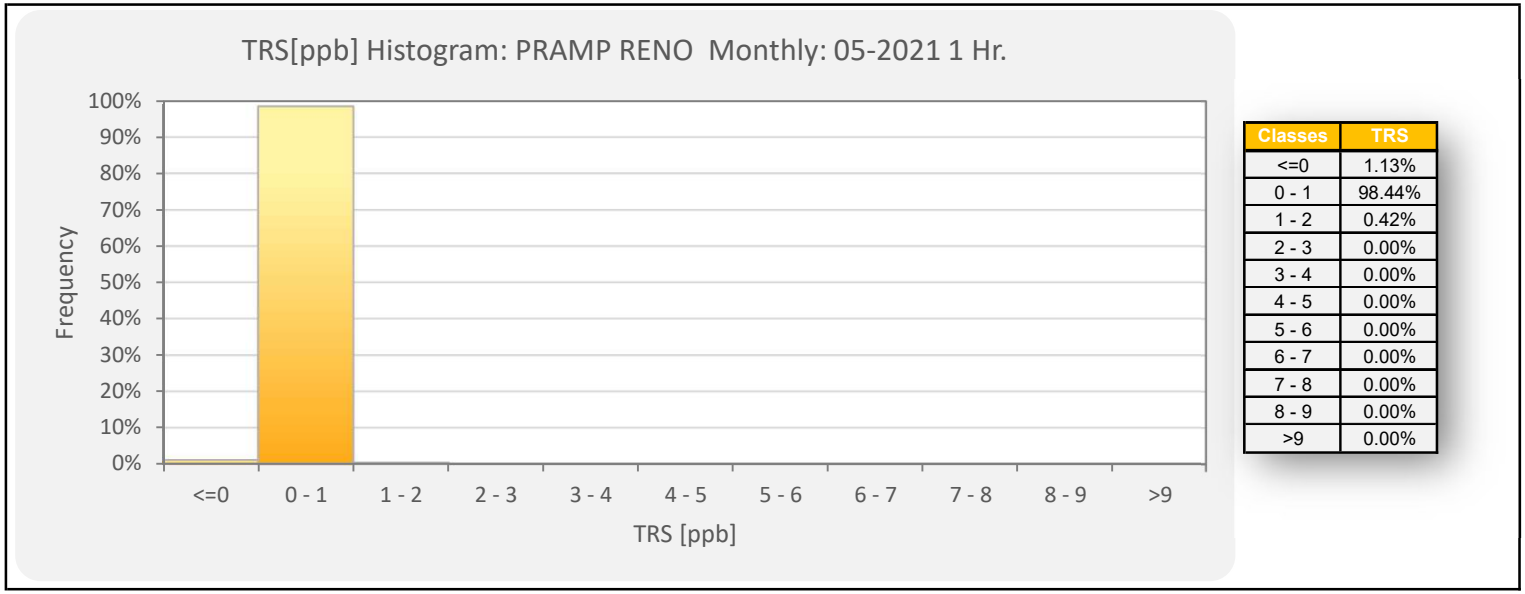
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0.07	0.05	0.02	0	0.01	0	0	0	0.04	0.06	0.04	0.04	0.05	0.03	0.03	0.05	0.06	0.1	0.14	0.15	0.18	S	0.21	0.2	**0.00**	0.21	0.07
May 2	0.19	0.2	0.18	0.19	0.19	0.19	0.18	0.16	0.14	0.15	0.14	0.13	0.11	0.09	0.1	0.07	0.1	0.08	0.1	0.11	S	0.18	0.13	0.11	0.07	0.20	0.14
May 3	0.13	0.12	0.13	0.12	0.11	0.12	0.13	0.13	0.3	0.39	0.24	0.19	0.19	0.16	0.13	0.14	0.14	0.16	0.17	S	0.24	0.19	0.18	0.17	0.11	0.39	0.17
May 4	0.15	0.54	0.21	0.21	0.22	0.22	0.47	1.15	0.89	0.55	0.29	0.28	0.28	0.25	0.23	0.2	0.21	0.23	S	0.17	0.13	0.16	0.15	0.15	0.13	1.15	0.32
May 5	0.14	0.12	0.14	0.16	0.4	0.7	0.24	0.25	0.27	0.24	0.17	0.17	0.14	0.15	0.16	0.16	0.17	S	0.16	0.22	0.25	0.25	0.2	0.17	0.12	0.70	0.22
May 6	0.15	0.14	0.13	0.14	0.14	0.13	0.13	0.14	0.16	0.13	0.13	0.13	0.1	0.1	0.12	0.13	S	0.18	0.13	0.17	0.18	0.19	0.21	0.21	0.10	0.21	0.15
May 7	0.2	0.21	0.2	0.2	0.21	0.25	0.25	0.28	0.29	0.29	0.3	0.3	0.28	0.27	0.27	S	0.27	0.21	0.27	0.16	0.17	0.17	0.2	0.21	0.16	0.30	0.24
May 8	0.21	0.21	0.21	0.22	0.24	0.16	0.14	0.13	0.18	0.2	0.24	0.22	0.16	0.15	S	0.22	0.21	0.19	0.2	0.21	0.22	0.24	0.21	0.21	0.13	0.24	0.20
May 9	0.2	0.18	0.19	0.2	0.18	0.18	0.2	0.21	0.25	0.23	0.18	0.18	0.17	S	0.21	0.14	0.13	0.14	0.16	0.19	0.21	0.21	0.24	0.24	0.13	0.25	0.19
May 10	0.22	0.19	0.19	0.17	0.17	0.22	0.29	0.29	0.3	0.2	0.17	0.13	S	0.16	0.12	0.1	0.12	0.12	0.16	0.16	0.17	0.18	0.21	0.21	0.10	0.30	0.18
May 11	0.14	0.16	0.16	0.15	0.18	0.19	0.18	0.21	C	C	C	C	C	C	0.18	0.06	0.04	0.03	0.01	0.05	0.08	0.1	0.15	0.15	0.01	0.21	0.12
May 12	0.16	0.21	0.24	0.22	0.19	0.19	0.25	0.21	0.19	0.16	S	0.14	0.14	0.11	0.12	0.12	0.11	0.11	0.11	0.09	0.12	0.16	0.18	0.21	0.09	0.25	0.16
May 13	0.21	0.28	0.28	0.31	0.34	0.28	0.19	0.15	0.12	S	0.25	0.16	0.16	0.15	0.1	0.11	0.12	0.12	0.13	0.13	0.12	0.16	0.17	0.19	0.10	0.34	0.18
May 14	0.18	0.17	0.2	0.22	0.18	0.17	0.19	0.22	S	0.18	0.14	0.14	0.13	0.12	0.11	0.12	0.12	0.13	0.15	0.15	0.17	0.2	0.21	0.2	0.11	0.22	0.17
May 15	0.22	0.28	0.26	0.23	0.24	0.22	0.24	S	0.16	0.08	0.05	0.04	0.04	0.04	0.05	0.04	0.04	0.05	0.07	0.07	0.08	0.12	0.14	0.16	0.04	0.28	0.13
May 16	0.16	0.22	0.25	0.26	0.26	0.25	S	0.26	0.14	0.05	0.03	0.01	0	0	0	0	0	0	0	0.09	0.13	0.26	0.31	0.38	**0.00**	0.38	0.13
May 17	0.39	0.44	0.4	0.36	0.29	S	0.27	0.28	0.17	**1.5**	0.24	0.42	0.27	0.21	0.2	0.19	0.19	0.18	0.21	0.22	0.25	0.34	0.35	0.34	0.17	**1.50**	0.34
May 18	0.3	0.25	0.22	0.22	S	0.26	0.25	0.24	0.25	0.24	0.22	0.23	0.24	0.25	0.26	0.23	0.2	0.18	0.15	0.13	0.12	0.12	0.11	0.11	0.11	0.30	0.21
May 19	0.11	0.13	0.14	S	0.21	0.22	0.22	0.2	0.21	0.22	0.21	0.19	0.18	0.16	0.14	0.14	0.15	0.14	0.14	0.17	0.18	0.19	0.2	0.17	0.11	0.22	0.17
May 20	0.16	0.16	S	0.19	0.17	0.18	0.39	0.34	0.28	0.21	0.19	0.19	0.17	0.14	0.15	0.15	0.16	0.15	0.15	0.16	0.18	0.21	0.18	0.18	0.14	0.39	0.19
May 21	0.18	S	0.2	0.15	0.17	0.17	0.17	0.18	0.17	0.16	0.13	0.14	0.12	0.12	0.1	0.11	0.11	0.11	0.1	0.11	0.11	0.14	0.15	0.14	0.10	0.20	0.14
May 22	S	0.25	0.26	0.27	0.25	0.32	0.3	0.25	0.21	0.14	0.09	0.08	0.06	0.07	0.06	0.06	0.07	0.07	0.06	0.08	0.12	0.14	0.18	S	0.06	0.32	0.15
May 23	0.24	0.26	0.24	0.28	0.28	0.27	0.22	0.17	0.16	0.15	0.09	0.07	0.08	0.09	0.09	0.09	0.1	0.1	0.12	0.11	0.1	0.12	S	0.26	0.07	0.28	0.16
May 24	0.22	0.2	0.2	0.2	0.2	0.21	0.21	0.22	0.19	0.14	0.11	0.11	0.08	0.07	0.07	0.07	0.09	0.09	0.09	0.12	0.16	S	0.29	0.44	0.07	0.44	0.16
May 25	0.45	0.24	0.2	0.24	0.28	0.32	0.28	0.24	0.21	0.18	0.16	0.14	0.11	0.1	0.09	0.08	0.09	0.08	0.09	0.11	S	0.16	0.13	0.12	0.08	0.45	0.18
May 26	0.12	0.13	0.13	0.13	0.12	0.14	0.13	0.45	0.27	0.17	0.15	0.14	0.12	0.11	0.1	0.11	0.12	0.14	0.14	S	0.29	0.37	0.41	0.52	0.10	0.52	0.20
May 27	0.63	0.76	0.74	0.69	0.72	0.93	1.09	0.75	0.49	0.42	0.37	0.31	0.24	0.21	0.22	0.23	0.19	0.15	S	0.24	0.29	0.4	0.48	0.49	0.15	1.09	**0.48**
May 28	0.44	0.39	0.44	0.56	0.46	0.47	0.46	0.47	0.38	0.29	0.23	0.19	0.18	0.16	0.13	0.09	0.09	S	0.2	0.17	0.18	0.24	0.24	0.29	0.09	0.56	0.29
May 29	0.28	0.26	0.23	0.18	0.17	0.14	0.16	0.18	0.08	0.06	0.04	0.05	0.05	0.06	0.08	0.09	S	0.18	0.18	0.17	0.21	0.24	0.26	0.32	0.04	0.32	0.16
May 30	0.33	0.34	0.27	0.24	0.24	0.23	0.26	0.23	0.2	0.19	0.13	0.09	0.1	0.08	0.08	S	0.16	0.14	0.16	0.17	0.2	0.32	0.34	0.32	0.08	0.34	0.21
May 31	0.39	0.41	0.44	0.55	0.48	0.44	0.4	0.3	0.22	0.21	0.18	0.17	0.15	0.15	S	0.19	0.22	0.29	0.31	0.32	0.35	0.37	0.4	0.45	0.15	0.55	0.32
Diurnal Maximum	0.63	0.76	0.74	0.69	0.72	0.93	1.09	1.15	0.89	1.50	0.37	0.42	0.28	0.27	0.27	0.23	0.27	0.29	0.31	0.32	0.35	0.40	0.48	0.52			
Diurnal Average	0.23	0.25	0.24	0.24	0.24	0.26	0.26	0.28	0.24	0.25	0.17	0.16	0.14	0.13	0.13	0.12	0.13	0.13	0.14	0.15	0.18	0.21	0.23	0.24			

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

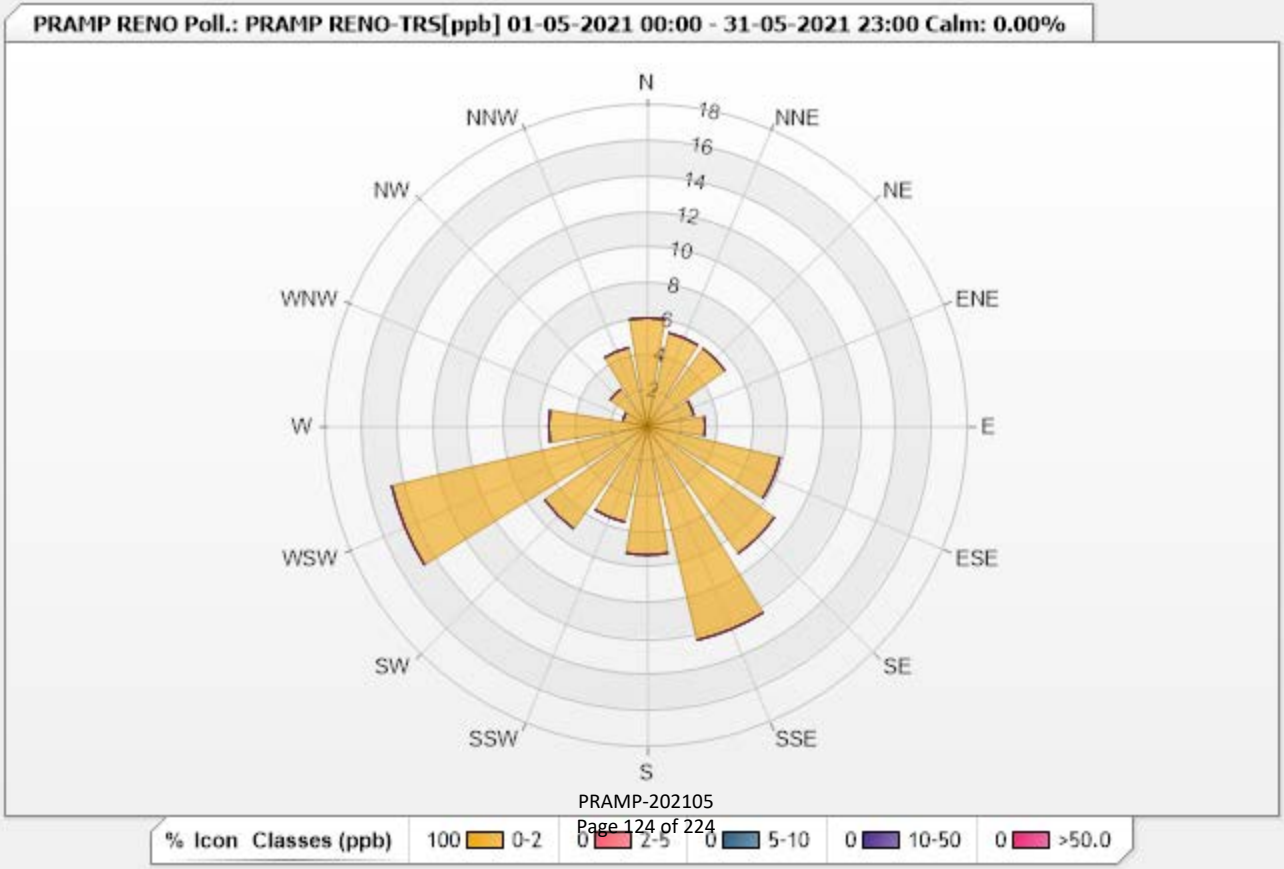




Classes	TRS
<=0	1.13%
0 - 1	98.44%
1 - 2	0.42%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-TRS[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.03% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	6.08	0	0	0	0	6.08
NNE	5.37	0	0	0	0	5.37
NE	5.37	0	0	0	0	5.37
ENE	2.69	0	0	0	0	2.69
E	3.25	0	0	0	0	3.25
ESE	7.64	0	0	0	0	7.64
SE	8.77	0	0	0	0	8.77
SSE	12.31	0	0	0	0	12.31
S	7.21	0	0	0	0	7.21
SSW	5.52	0	0	0	0	5.52
SW	7.07	0	0	0	0	7.07
WSW	14.71	0	0	0	0	14.71
W	5.52	0	0	0	0	5.52
WNW	1.41	0	0	0	0	1.41
NW	2.55	0	0	0	0	2.55
NNW	4.53	0	0	0	0	4.53
Summary	100	0	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-TRS[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppb)
100 0-2
0 2-5
0 5-10
0 10-50
0 >50.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

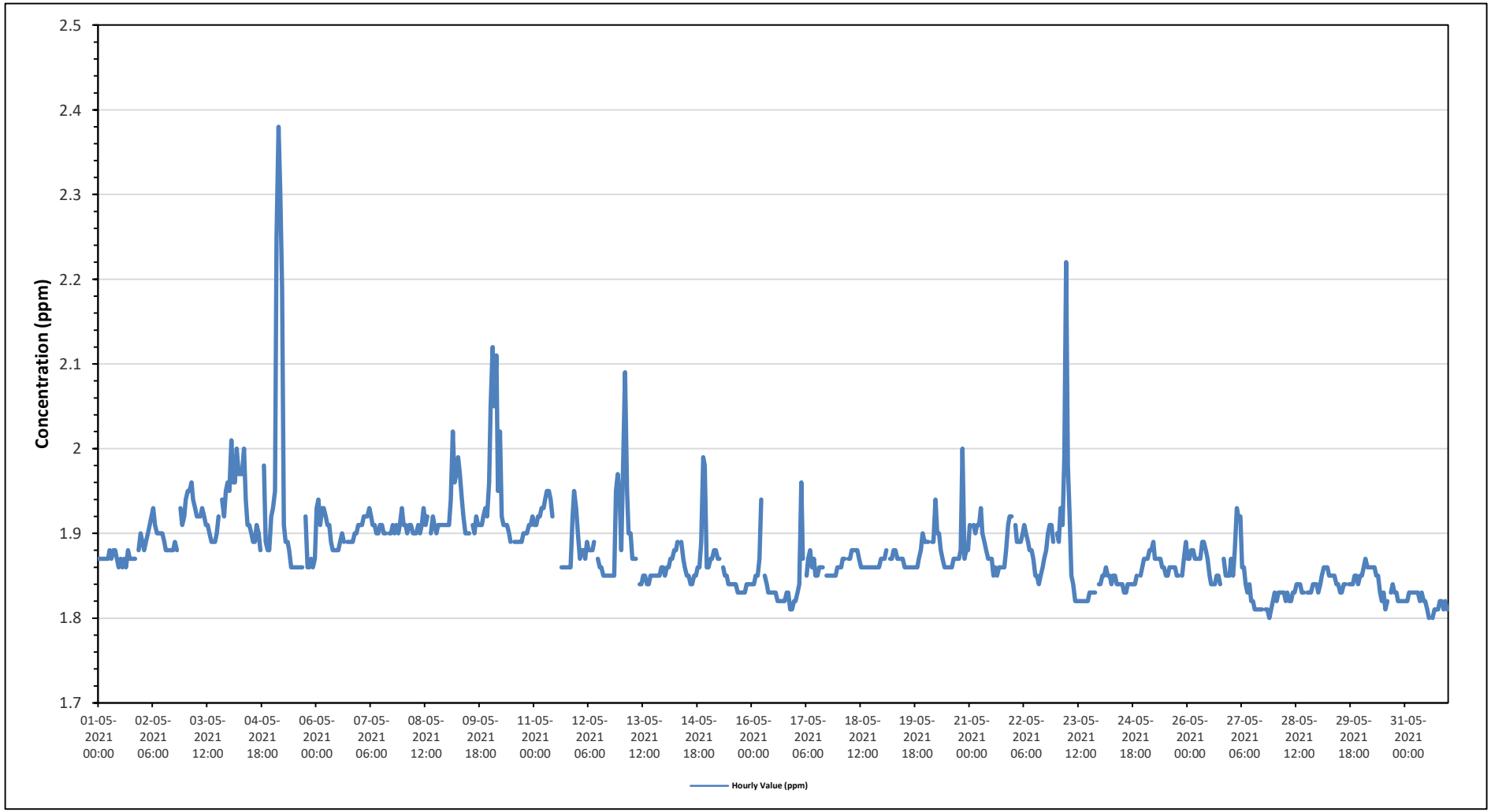
Maximum Hourly Value:	2.38	ppm	on May 5 at hour 3	Hours in Service:	744
Maximum Daily Value:	1.95	ppm	on May 5	Hours of Data:	708
Minimum Hourly Value:	1.80	ppm	on May 27 at hour 21	Hours of Missing Data:	1
Minimum Daily Value:	1.82	ppm	on May 31	Hours of Calibration:	35
Monthly Average:	1.88	ppm		Operational Uptime:	99.9

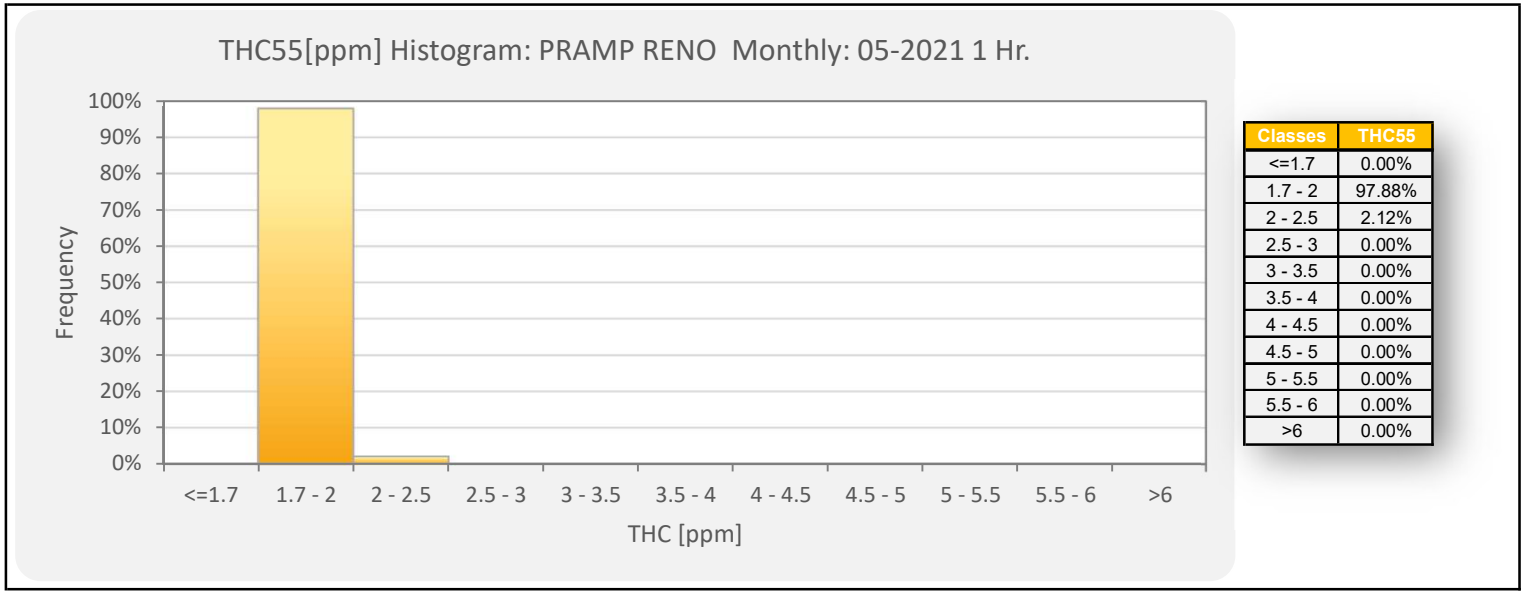
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	1.87	1.87	1.87	1.87	1.87	1.87	1.88	1.87	1.88	1.88	1.87	1.86	1.87	1.86	1.87	1.86	1.88	1.87	1.87	1.87	1.87	S	1.88	1.90	1.86	1.90	1.87
May 2	1.89	1.88	1.89	1.90	1.91	1.92	1.93	1.91	1.90	1.90	1.90	1.90	1.89	1.88	1.88	1.88	1.88	1.88	1.89	1.88	S	1.93	1.91	1.92	1.88	1.93	1.90
May 3	1.94	1.95	1.95	1.96	1.94	1.93	1.92	1.92	1.92	1.93	1.92	1.91	1.91	1.90	1.89	1.89	1.89	1.90	1.92	S	1.94	1.92	1.95	1.96	1.89	1.96	1.92
May 4	1.95	2.01	1.96	1.96	2.00	1.97	1.97	1.97	2.00	1.94	1.91	1.91	1.90	1.89	1.89	1.91	1.90	1.88	S	1.98	1.89	1.88	1.88	1.92	1.88	2.01	1.93
May 5	1.93	1.95	2.25	**2.38**	2.30	2.19	1.91	1.89	1.89	1.88	1.86	1.86	1.86	1.86	1.86	1.86	1.86	S	1.92	1.86	1.86	1.87	1.86	1.87	1.86	**2.38**	**1.95**
May 6	1.93	1.94	1.91	1.93	1.93	1.92	1.91	1.91	1.89	1.88	1.88	1.88	1.88	1.89	1.90	1.89	S	1.89	1.89	1.89	1.89	1.90	1.90	1.91	1.88	1.94	1.90
May 7	1.91	1.91	1.92	1.92	1.92	1.93	1.92	1.91	1.91	1.90	1.90	1.91	1.91	1.90	1.90	S	1.90	1.90	1.91	1.90	1.91	1.90	1.91	1.93	1.90	1.93	1.91
May 8	1.91	1.91	1.90	1.91	1.91	1.90	1.90	1.90	1.91	1.90	1.91	1.93	1.91	1.92	S	1.90	1.92	1.91	1.90	1.91	1.91	1.91	1.91	1.91	1.90	1.93	1.91
May 9	1.91	1.91	1.94	2.02	1.96	1.97	1.99	1.97	1.94	1.92	1.90	1.90	1.90	S	1.91	1.90	1.92	1.91	1.91	1.91	1.92	1.93	1.92	1.96	1.90	2.02	1.93
May 10	2.05	2.12	2.05	2.11	1.95	2.02	1.92	1.91	1.91	1.91	1.90	1.89	S	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.90	1.91	1.91	1.92	1.89	2.12	1.94
May 11	1.91	1.91	1.92	1.92	1.93	1.93	1.94	1.95	1.95	1.94	1.92	C	C	C	C	1.86	1.86	1.86	1.86	1.86	1.86	1.92	1.95	1.93	1.86	1.95	1.91
May 12	1.90	1.87	1.88	1.88	1.87	1.89	1.88	1.88	1.88	1.89	S	1.87	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.95	1.97	1.94	1.85	1.97	1.88
May 13	1.88	1.99	2.09	1.95	1.90	1.90	1.87	1.87	1.87	S	1.84	1.84	1.85	1.85	1.84	1.84	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.84	2.09	1.88
May 14	1.85	1.86	1.86	1.87	1.87	1.88	1.88	1.89	S	1.89	1.87	1.86	1.85	1.85	1.84	1.84	1.85	1.85	1.86	1.86	1.89	1.99	1.98	1.86	1.84	1.99	1.87
May 15	1.86	1.87	1.87	1.88	1.88	1.87	1.87	S	1.86	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.84	1.84	1.84	1.83	1.88	1.85
May 16	1.84	1.84	1.85	1.85	1.87	1.94	S	1.85	1.84	1.83	1.83	1.83	1.83	1.83	1.82	1.82	1.82	1.82	1.82	1.83	1.83	1.81	1.81	1.82	1.81	1.94	1.84
May 17	1.82	1.83	1.84	1.96	1.87	S	1.85	1.87	1.88	1.86	1.87	1.85	1.85	1.86	1.86	1.86	Y	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.82	1.96	1.86
May 18	1.86	1.86	1.87	1.87	S	1.87	1.87	1.88	1.88	1.88	1.88	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.86	1.88	1.87
May 19	1.87	1.87	1.88	S	1.87	1.87	1.88	1.88	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.90	1.89	1.86	1.90	1.87
May 20	1.89	1.89	S	1.89	1.89	1.94	1.90	1.90	1.88	1.87	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.88	2.00	1.87	1.88	1.88	1.86	2.00	1.88
May 21	1.91	S	1.91	1.90	1.91	1.91	1.93	1.90	1.89	1.88	1.87	1.87	1.87	1.85	1.86	1.85	1.86	1.86	1.86	1.86	1.88	1.91	1.92	1.92	1.85	1.93	1.89
May 22	S	1.91	1.89	1.89	1.89	1.90	1.91	1.90	1.89	1.88	1.88	1.87	1.85	1.85	1.84	1.85	1.86	1.87	1.88	1.90	1.91	1.91	1.89	S	1.84	1.91	1.88
May 23	1.90	1.89	1.93	1.91	1.99	2.22	1.98	1.92	1.85	1.84	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.83	1.83	1.83	1.83	S	1.84	1.82	2.22	1.88
May 24	1.84	1.85	1.85	1.86	1.85	1.85	1.84	1.85	1.85	1.84	1.84	1.84	1.84	1.83	1.83	1.84	1.84	1.84	1.84	1.84	1.85	S	1.85	1.86	1.83	1.86	1.84
May 25	1.87	1.87	1.87	1.88	1.88	1.89	1.87	1.87	1.87	1.87	1.86	1.86	1.85	1.85	1.86	1.86	1.86	1.86	1.85	1.85	S	1.85	1.87	1.89	1.85	1.89	1.87
May 26	1.87	1.87	1.88	1.88	1.87	1.87	1.87	1.87	1.89	1.89	1.88	1.87	1.85	1.84	1.84	1.84	1.85	1.85	1.84	S	1.87	1.85	1.85	1.85	1.84	1.89	1.86
May 27	1.87	1.85	1.88	1.93	1.92	1.92	1.86	1.86	1.84	1.83	1.84	1.82	1.82	1.81	1.81	1.81	1.81	1.81	S	1.81	1.81	1.80	1.81	1.82	**1.80**	1.93	1.84
May 28	1.83	1.82	1.83	1.83	1.83	1.83	1.82	1.83	1.82	1.82	1.83	1.83	1.84	1.84	1.84	1.83	1.83	S	1.83	1.83	1.83	1.84	1.84	1.84	1.82	1.84	1.83
May 29	1.83	1.84	1.85	1.86	1.86	1.86	1.85	1.85	1.85	1.85	1.84	1.84	1.83	1.83	1.84	1.84	S	1.84	1.84	1.84	1.85	1.85	1.84	1.85	1.83	1.86	1.84
May 30	1.85	1.86	1.87	1.86	1.86	1.86	1.86	1.86	1.85	1.85	1.83	1.82	1.83	1.81	1.82	S	1.83	1.84	1.83	1.83	1.82	1.82	1.82	1.82	1.81	1.87	1.84
May 31	1.82	1.82	1.83	1.83	1.83	1.83	1.83	1.83	1.82	1.83	1.82	1.82	1.81	1.80	S	1.80	1.81	1.81	1.81	1.82	1.82	1.81	1.82	1.81	**1.80**	1.83	1.82
Diurnal Maximum	2.05	2.12	2.25	2.38	2.30	2.22	1.99	1.97	2.00	1.94	1.92	1.93	1.91	1.92	1.91	1.91	1.92	1.91	1.92	1.98	2.00	1.99	1.98	1.96			
Diurnal Average	1.89	1.89	1.91	1.92	1.91	1.92	1.89	1.89	1.88	1.88	1.87	1.86	1.86	1.85	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.88	1.88			

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 - Reno Station

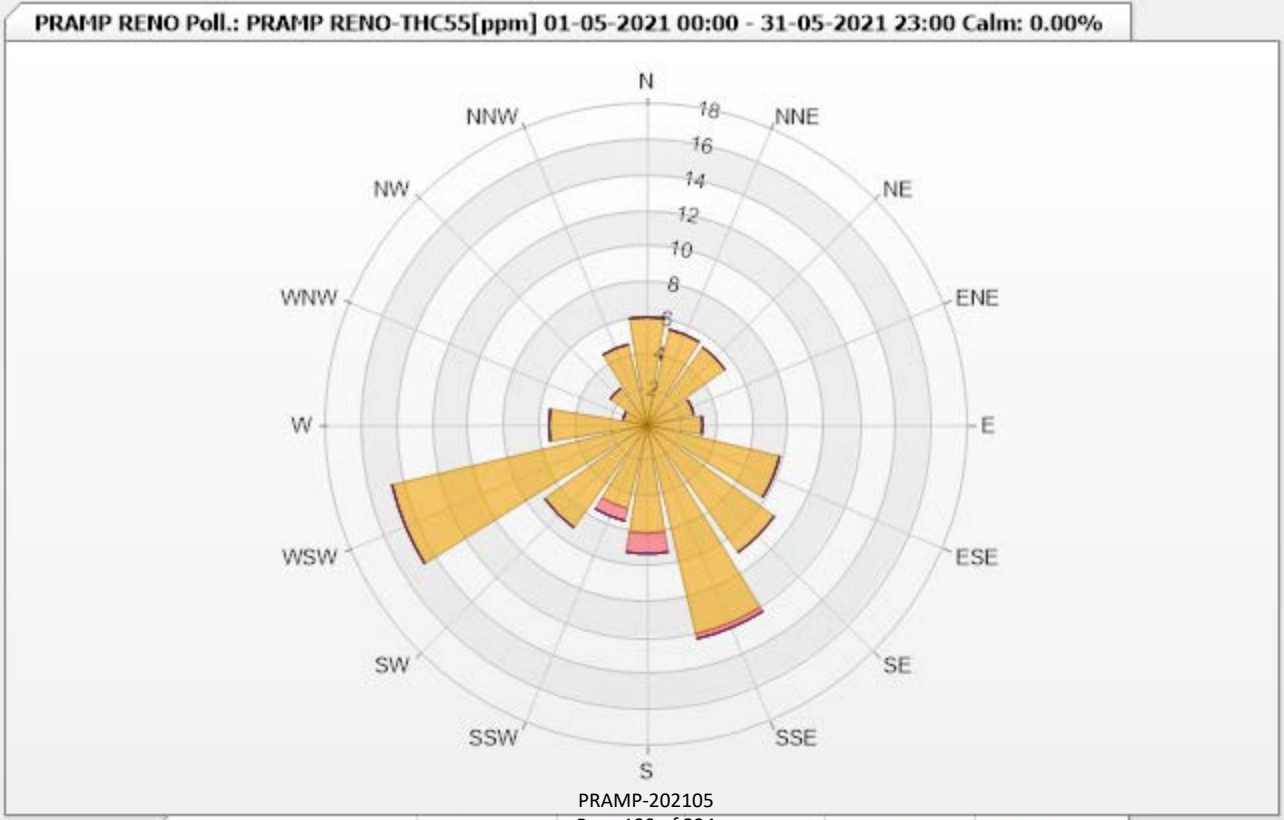




Classes	THC55
<=1.7	0.00%
1.7 - 2	97.88%
2 - 2.5	2.12%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-THC55[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	6.07	0	0	0	0	6.07
NNE	5.51	0	0	0	0	5.51
NE	5.37	0	0	0	0	5.37
ENE	2.68	0	0	0	0	2.68
E	3.11	0	0	0	0	3.11
ESE	7.63	0	0	0	0	7.63
SE	8.76	0	0	0	0	8.76
SSE	12.01	0.28	0	0	0	12.29
S	6.07	1.13	0	0	0	7.2
SSW	4.8	0.71	0	0	0	5.51
SW	7.06	0	0	0	0	7.06
WSW	14.69	0	0	0	0	14.69
W	5.51	0	0	0	0	5.51
WNW	1.41	0	0	0	0	1.41
NW	2.54	0	0	0	0	2.54
NNW	4.66	0	0	0	0	4.66
Summary	97.88	2.12	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-THC55[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppm)
98 0-2
2 2-5
0 5-10
0 10-40
0 >40.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

METHANE (CH4) in ppm

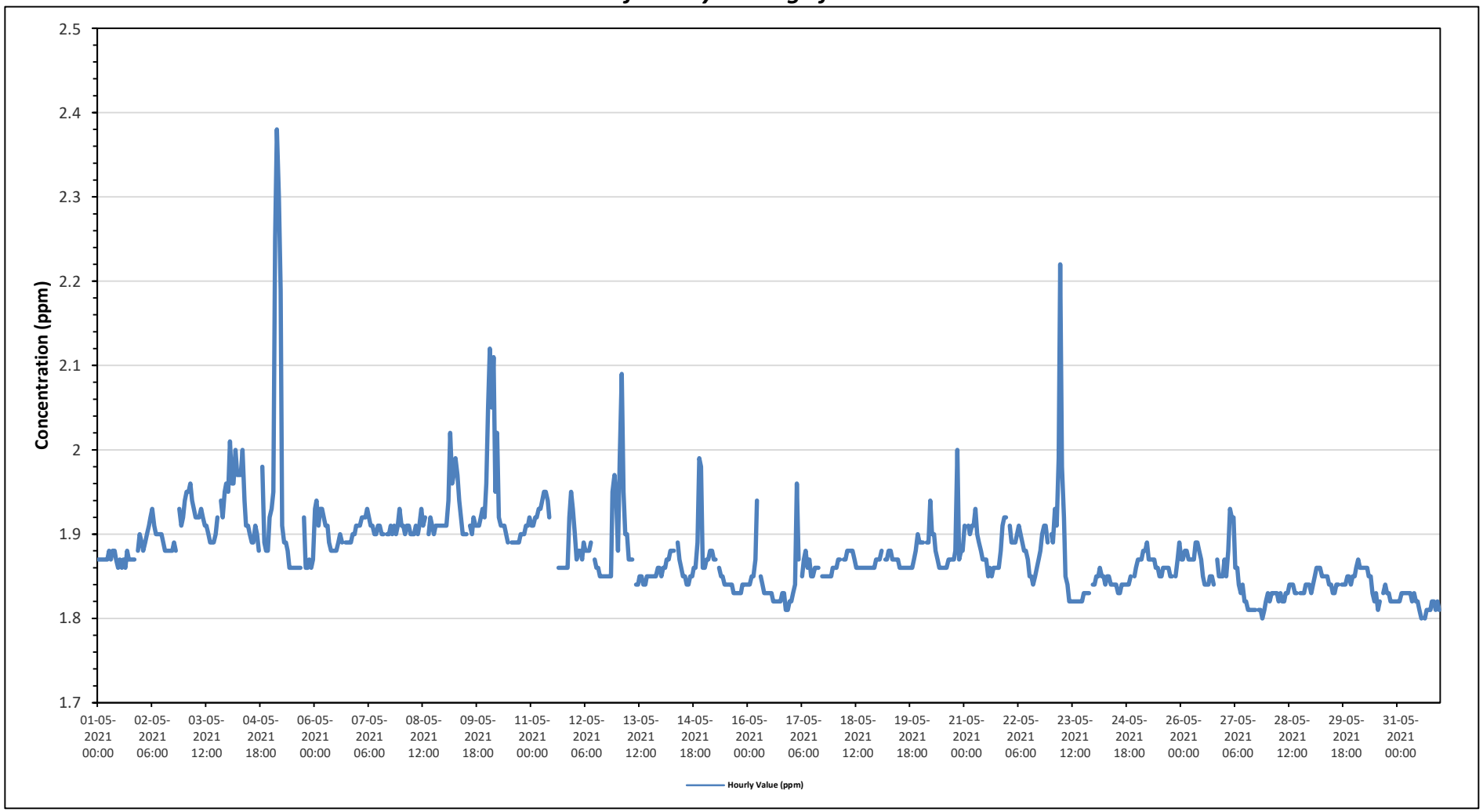
Maximum Hourly Value:	2.38	ppm	on May 5 at hour 3	Hours in Service:	744
Maximum Daily Value:	1.95	ppm	on May 5	Hours of Data:	708
Minimum Hourly Value:	1.80	ppm	on May 27 at hour 21	Hours of Missing Data:	1
Minimum Daily Value:	1.82	ppm	on May 31	Hours of Calibration:	35
Monthly Average:	1.88	ppm		Operational Uptime:	99.9

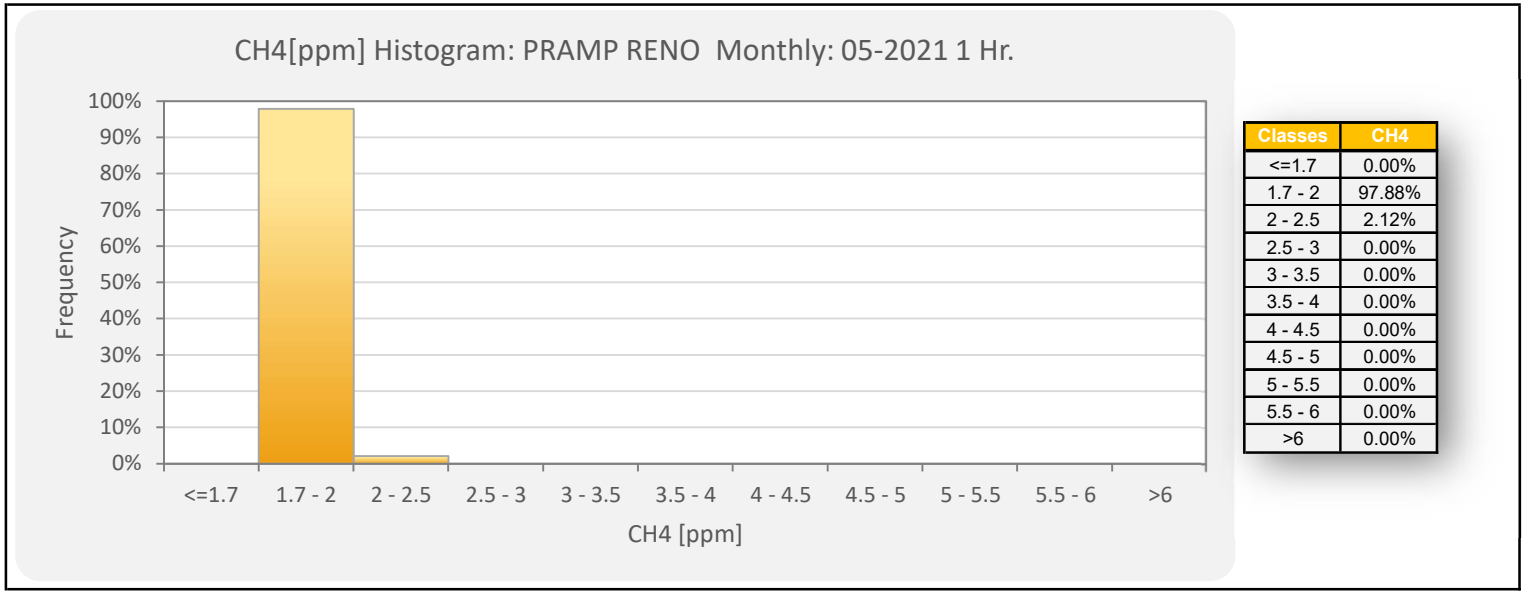
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	1.87	1.87	1.87	1.87	1.87	1.87	1.88	1.87	1.88	1.88	1.87	1.86	1.87	1.86	1.87	1.86	1.88	1.87	1.87	1.87	1.87	S	1.88	1.90	1.86	1.90	1.87
May 2	1.89	1.88	1.89	1.90	1.91	1.92	1.93	1.91	1.90	1.90	1.90	1.90	1.89	1.88	1.88	1.88	1.88	1.88	1.89	1.88	S	1.93	1.91	1.92	1.88	1.93	1.90
May 3	1.94	1.95	1.95	1.96	1.94	1.93	1.92	1.92	1.92	1.93	1.92	1.91	1.91	1.90	1.89	1.89	1.89	1.90	1.92	S	1.94	1.92	1.95	1.96	1.89	1.96	1.92
May 4	1.95	2.01	1.96	1.96	2.00	1.97	1.97	1.97	2.00	1.94	1.91	1.91	1.90	1.89	1.89	1.91	1.90	1.88	S	1.98	1.89	1.88	1.88	1.92	1.88	2.01	1.93
May 5	1.93	1.95	2.25	**2.38**	2.30	2.19	1.91	1.89	1.89	1.88	1.86	1.86	1.86	1.86	1.86	1.86	1.86	S	1.92	1.86	1.86	1.87	1.86	1.87	1.86	**2.38**	**1.95**
May 6	1.93	1.94	1.91	1.93	1.93	1.92	1.91	1.91	1.89	1.88	1.88	1.88	1.88	1.89	1.90	1.89	S	1.89	1.89	1.89	1.89	1.90	1.90	1.91	1.88	1.94	1.90
May 7	1.91	1.91	1.92	1.92	1.92	1.93	1.92	1.91	1.91	1.90	1.90	1.91	1.91	1.90	1.90	S	1.90	1.90	1.91	1.90	1.91	1.90	1.91	1.93	1.90	1.93	1.91
May 8	1.91	1.91	1.90	1.91	1.91	1.90	1.90	1.90	1.91	1.90	1.91	1.93	1.91	1.92	S	1.90	1.92	1.91	1.90	1.91	1.91	1.91	1.91	1.91	1.90	1.93	1.91
May 9	1.91	1.91	1.94	2.02	1.96	1.97	1.99	1.97	1.94	1.92	1.90	1.90	1.90	S	1.91	1.90	1.92	1.91	1.91	1.91	1.92	1.93	1.92	1.96	1.90	2.02	1.93
May 10	2.05	2.12	2.05	2.11	1.95	2.02	1.92	1.91	1.91	1.91	1.90	1.89	S	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.90	1.91	1.91	1.92	1.89	2.12	1.94
May 11	1.91	1.91	1.92	1.92	1.93	1.93	1.94	1.95	1.95	1.94	1.92	C	C	C	C	1.86	1.86	1.86	1.86	1.86	1.86	1.92	1.95	1.93	1.86	1.95	1.91
May 12	1.90	1.87	1.88	1.88	1.87	1.89	1.88	1.88	1.88	1.89	S	1.87	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.95	1.97	1.94	1.85	1.97	1.88
May 13	1.88	1.99	2.09	1.95	1.90	1.90	1.87	1.87	1.87	S	1.84	1.84	1.85	1.85	1.84	1.84	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.84	2.09	1.88
May 14	1.85	1.86	1.86	1.87	1.87	1.88	1.88	1.88	S	1.89	1.87	1.86	1.85	1.85	1.84	1.84	1.85	1.85	1.86	1.86	1.89	1.99	1.98	1.86	1.84	1.99	1.87
May 15	1.86	1.87	1.87	1.88	1.88	1.87	1.87	S	1.86	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.83	1.83	1.83	1.83	1.83	1.84	1.84	1.84	1.83	1.88	1.85
May 16	1.84	1.84	1.85	1.85	1.87	1.94	S	1.85	1.84	1.83	1.83	1.83	1.83	1.83	1.82	1.82	1.82	1.82	1.82	1.83	1.83	1.81	1.81	1.82	1.81	1.94	1.84
May 17	1.82	1.83	1.84	1.96	1.87	S	1.85	1.87	1.88	1.86	1.87	1.85	1.85	1.86	1.86	1.86	Y	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.82	1.96	1.86
May 18	1.86	1.86	1.87	1.87	S	1.87	1.87	1.88	1.88	1.88	1.88	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.86	1.88	1.87
May 19	1.87	1.87	1.88	S	1.87	1.87	1.88	1.88	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.90	1.89	1.86	1.90	1.87
May 20	1.89	1.89	S	1.89	1.89	1.94	1.90	1.90	1.88	1.87	1.86	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.88	2.00	1.87	1.88	1.88	1.86	2.00	1.88
May 21	1.91	S	1.91	1.90	1.91	1.91	1.93	1.90	1.89	1.88	1.87	1.87	1.87	1.85	1.86	1.85	1.86	1.86	1.86	1.86	1.88	1.91	1.92	1.92	1.85	1.93	1.89
May 22	S	1.91	1.89	1.89	1.89	1.90	1.91	1.90	1.89	1.88	1.88	1.87	1.85	1.85	1.84	1.85	1.86	1.87	1.88	1.90	1.91	1.91	1.89	S	1.84	1.91	1.88
May 23	1.90	1.89	1.93	1.91	1.99	2.22	1.98	1.92	1.85	1.84	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.82	1.83	1.83	1.83	1.83	S	1.84	1.82	2.22	1.88
May 24	1.84	1.85	1.85	1.86	1.85	1.85	1.84	1.85	1.85	1.84	1.84	1.84	1.84	1.83	1.83	1.84	1.84	1.84	1.84	1.84	1.85	S	1.85	1.86	1.83	1.86	1.84
May 25	1.87	1.87	1.87	1.88	1.88	1.89	1.87	1.87	1.87	1.87	1.86	1.86	1.85	1.85	1.86	1.86	1.86	1.86	1.85	1.85	S	1.85	1.87	1.89	1.85	1.89	1.87
May 26	1.87	1.87	1.88	1.88	1.87	1.87	1.87	1.87	1.89	1.89	1.88	1.87	1.85	1.84	1.84	1.84	1.85	1.85	1.84	S	1.87	1.85	1.85	1.85	1.84	1.89	1.86
May 27	1.87	1.85	1.88	1.93	1.92	1.92	1.86	1.86	1.84	1.83	1.84	1.82	1.82	1.81	1.81	1.81	1.81	1.81	S	1.81	1.81	1.80	1.81	1.82	**1.80**	1.93	1.84
May 28	1.83	1.82	1.83	1.83	1.83	1.83	1.82	1.83	1.82	1.82	1.83	1.83	1.84	1.84	1.84	1.83	1.83	S	1.83	1.83	1.83	1.84	1.84	1.84	1.82	1.84	1.83
May 29	1.83	1.84	1.85	1.86	1.86	1.86	1.85	1.85	1.85	1.85	1.84	1.84	1.83	1.83	1.84	1.84	S	1.84	1.84	1.84	1.85	1.85	1.84	1.85	1.83	1.86	1.84
May 30	1.85	1.86	1.87	1.86	1.86	1.86	1.86	1.86	1.85	1.85	1.83	1.82	1.83	1.81	1.82	S	1.83	1.84	1.83	1.83	1.82	1.82	1.82	1.82	1.81	1.87	1.84
May 31	1.82	1.82	1.83	1.83	1.83	1.83	1.83	1.83	1.82	1.83	1.82	1.82	1.81	1.80	S	1.80	1.81	1.81	1.81	1.82	1.82	1.81	1.82	1.81	**1.80**	1.83	1.82
Diurnal Maximum	2.05	2.12	2.25	2.38	2.30	2.22	1.99	1.97	2.00	1.94	1.92	1.93	1.91	1.92	1.91	1.91	1.92	1.91	1.92	1.98	2.00	1.99	1.98	1.96			
Diurnal Average	1.89	1.89	1.91	1.92	1.91	1.92	1.89	1.89	1.88	1.88	1.87	1.86	1.86	1.85	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.88	1.88			

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 - Reno Station

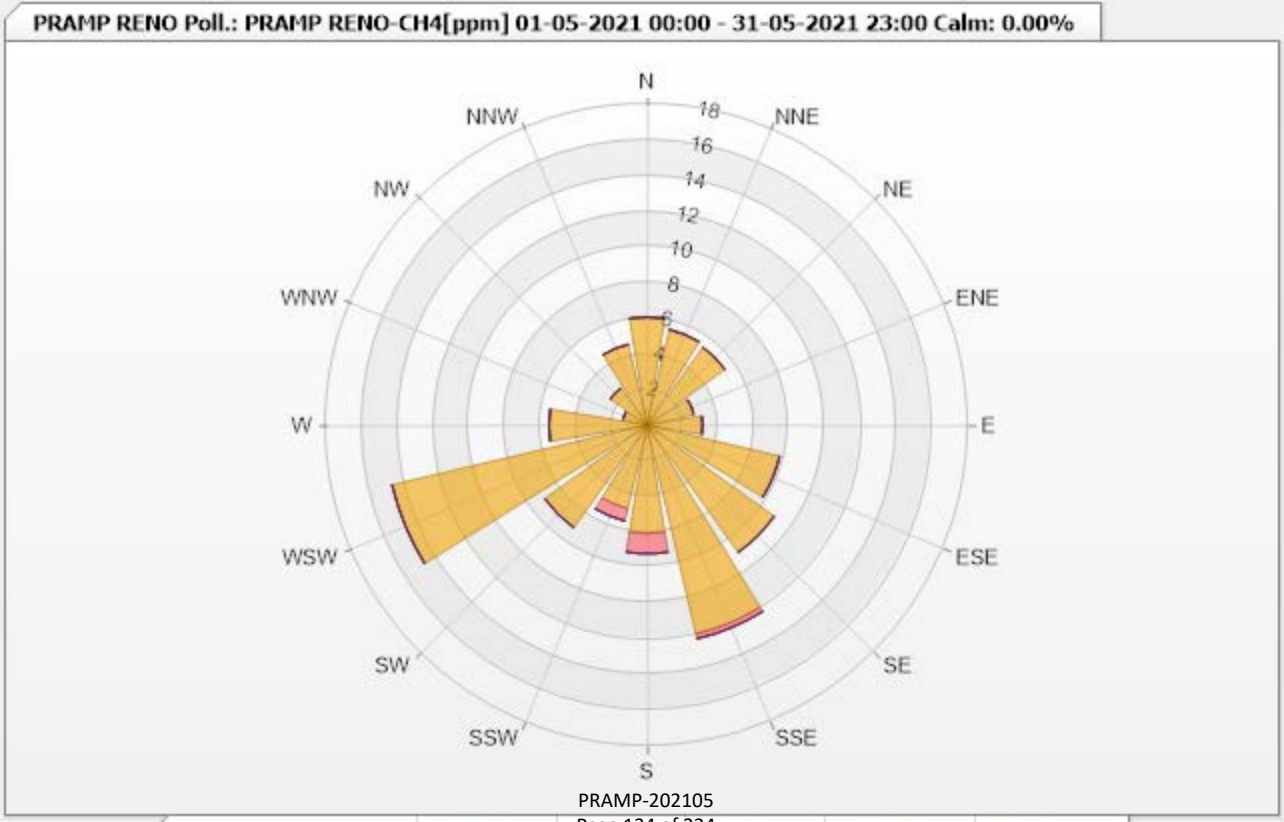




Classes	CH4
<=1.7	0.00%
1.7 - 2	97.88%
2 - 2.5	2.12%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-CH4[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	6.07	0	0	0	0	6.07
NNE	5.51	0	0	0	0	5.51
NE	5.37	0	0	0	0	5.37
ENE	2.68	0	0	0	0	2.68
E	3.11	0	0	0	0	3.11
ESE	7.63	0	0	0	0	7.63
SE	8.76	0	0	0	0	8.76
SSE	12.01	0.28	0	0	0	12.29
S	6.07	1.13	0	0	0	7.2
SSW	4.8	0.71	0	0	0	5.51
SW	7.06	0	0	0	0	7.06
WSW	14.69	0	0	0	0	14.69
W	5.51	0	0	0	0	5.51
WNW	1.41	0	0	0	0	1.41
NW	2.54	0	0	0	0	2.54
NNW	4.66	0	0	0	0	4.66
Summary	97.88	2.12	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-CH4[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% Icon Classes (ppm)
98 0-2
2 2-5
0 5-10
0 10-20
0 >20.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

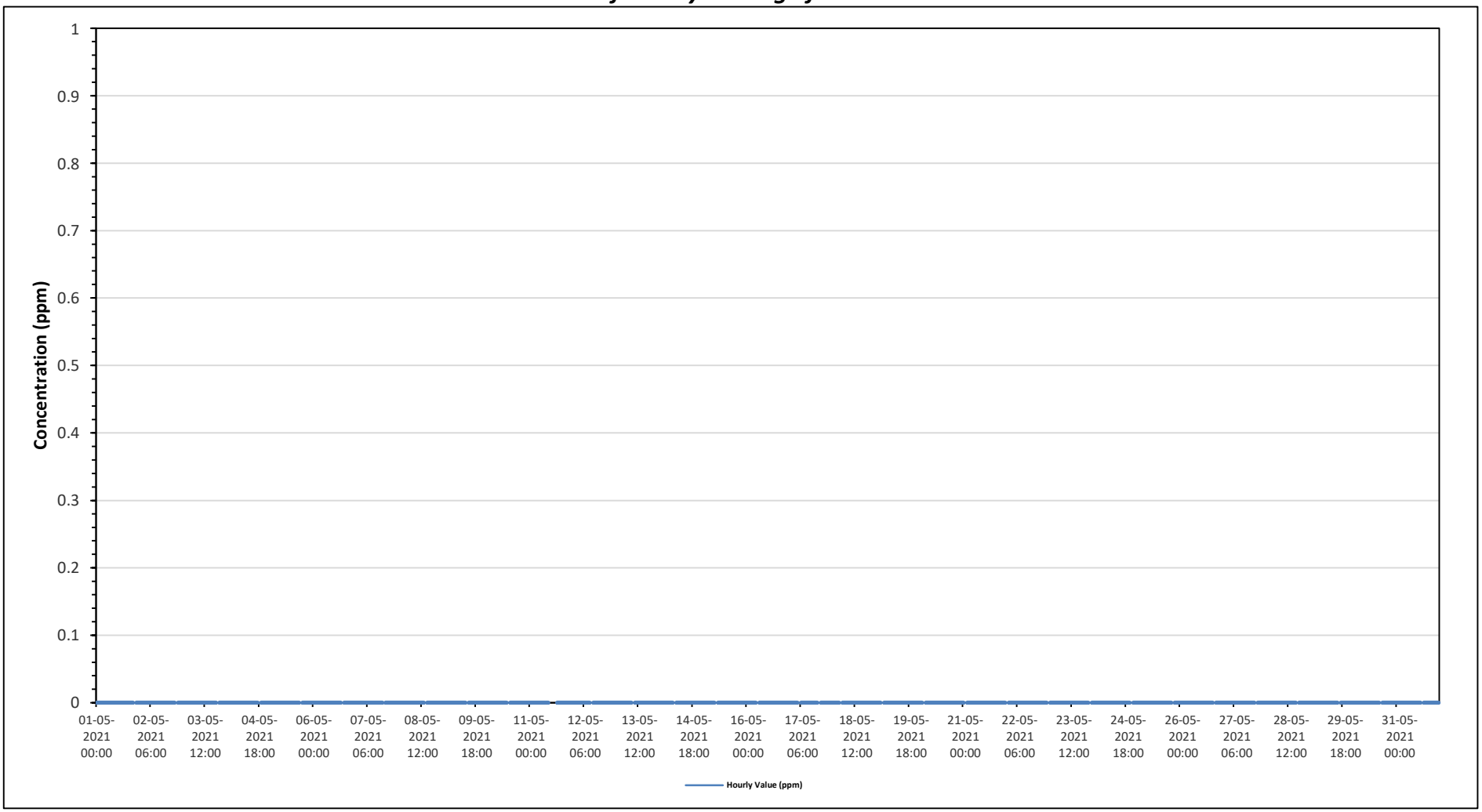
Maximum Hourly Value:	0.00	ppm	on May 1 at hour 0	Hours in Service:	744
Maximum Daily Value:	0.00	ppm	on May 1	Hours of Data:	708
Minimum Hourly Value:	0.00	ppm	on May 1 at hour 0	Hours of Missing Data:	1
Minimum Daily Value:	0.00	ppm	on May 1	Hours of Calibration:	35
Monthly Average:	0.00	ppm		Operational Uptime:	99.9

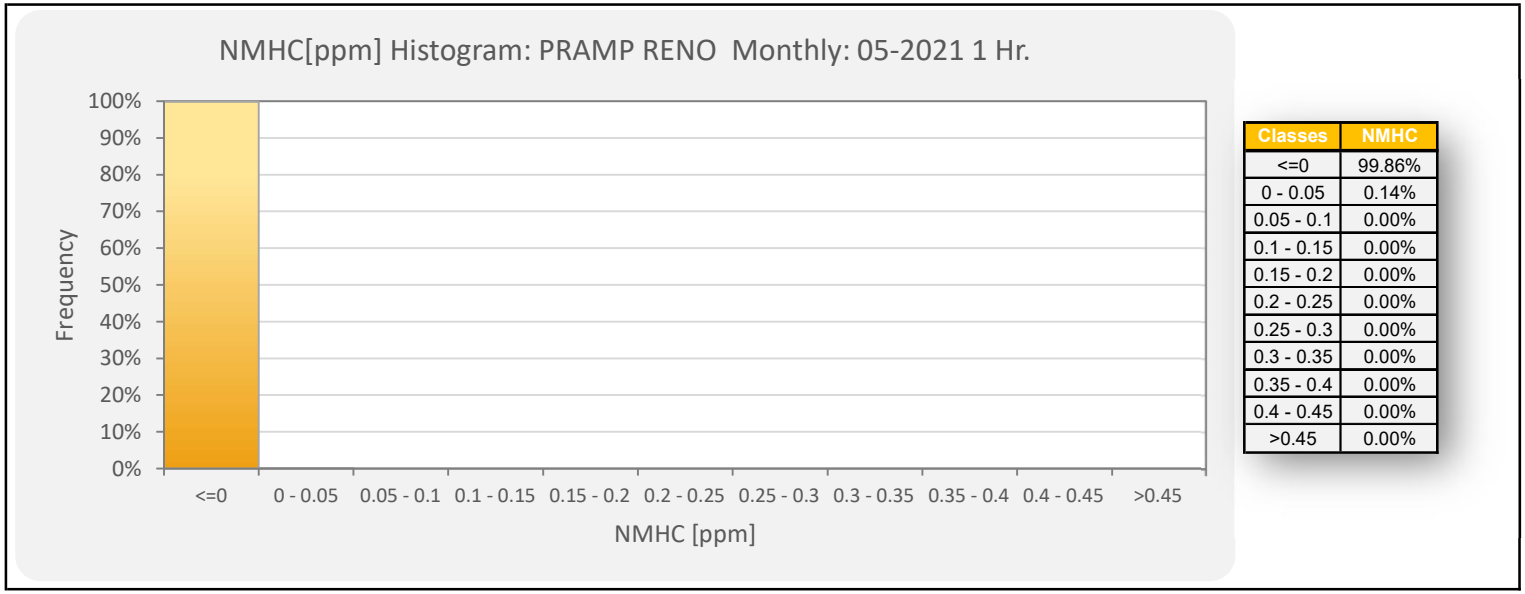
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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	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
May 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	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
May 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	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
May 9	0.00	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
May 10	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
May 11	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 12	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
May 13	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
May 14	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
May 15	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
May 16	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
May 17	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	Y	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 18	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
May 19	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
May 20	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
May 21	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
May 22	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
May 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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
May 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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 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	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
May 29	0.00	0.00	0.00	0.00	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
May 30	0.00	0.00	0.00	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
May 31	0.00	0.00	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	0.00	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			

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 - Reno Station

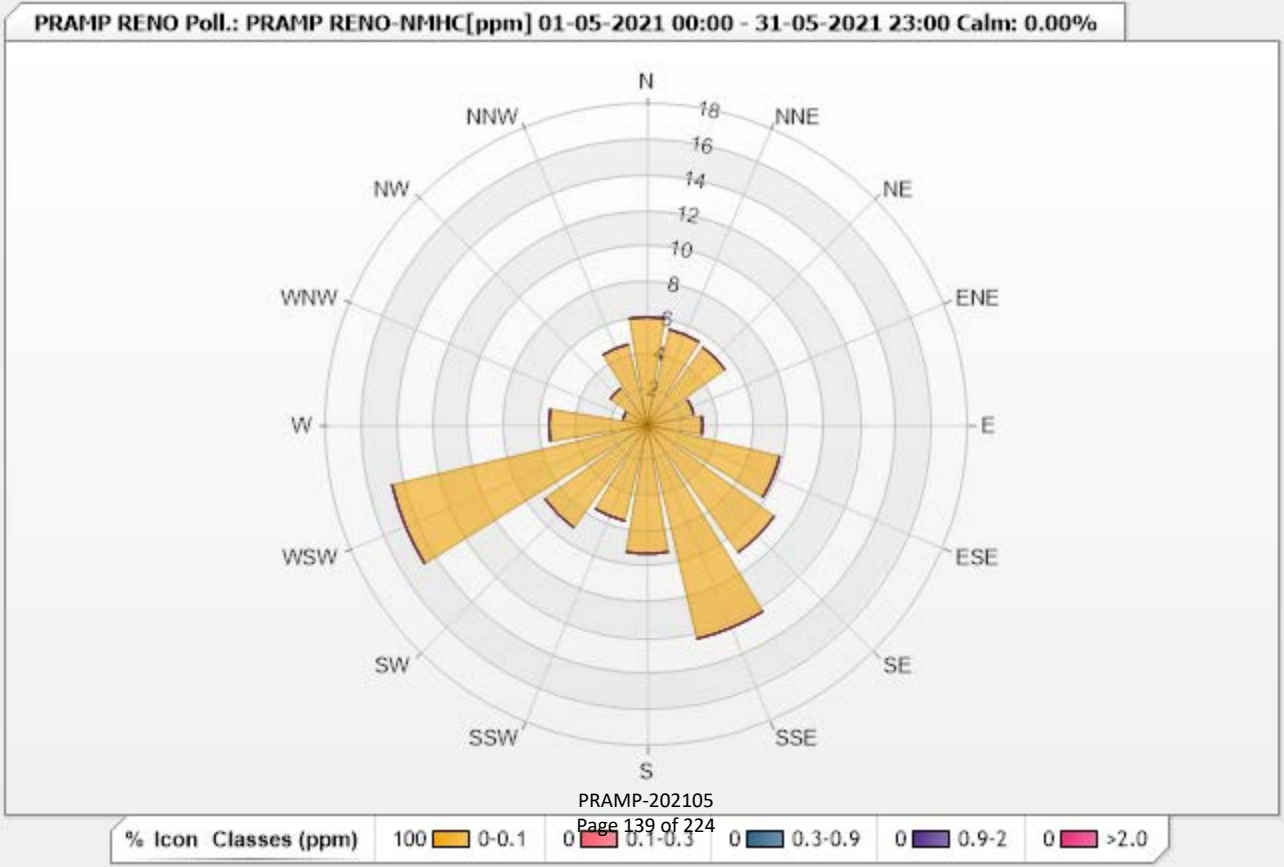




Classes	NMHC
<=0	99.86%
0 - 0.05	0.14%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-NMHC[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.16% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-0.9	0.9-2	>2.0	Total
N	6.07	0	0	0	0	6.07
NNE	5.51	0	0	0	0	5.51
NE	5.37	0	0	0	0	5.37
ENE	2.68	0	0	0	0	2.68
E	3.11	0	0	0	0	3.11
ESE	7.63	0	0	0	0	7.63
SE	8.76	0	0	0	0	8.76
SSE	12.29	0	0	0	0	12.29
S	7.2	0	0	0	0	7.2
SSW	5.51	0	0	0	0	5.51
SW	7.06	0	0	0	0	7.06
WSW	14.69	0	0	0	0	14.69
W	5.51	0	0	0	0	5.51
WNW	1.41	0	0	0	0	1.41
NW	2.54	0	0	0	0	2.54
NNW	4.66	0	0	0	0	4.66
Summary	100	0	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-NMHC[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
4
2
% 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 pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

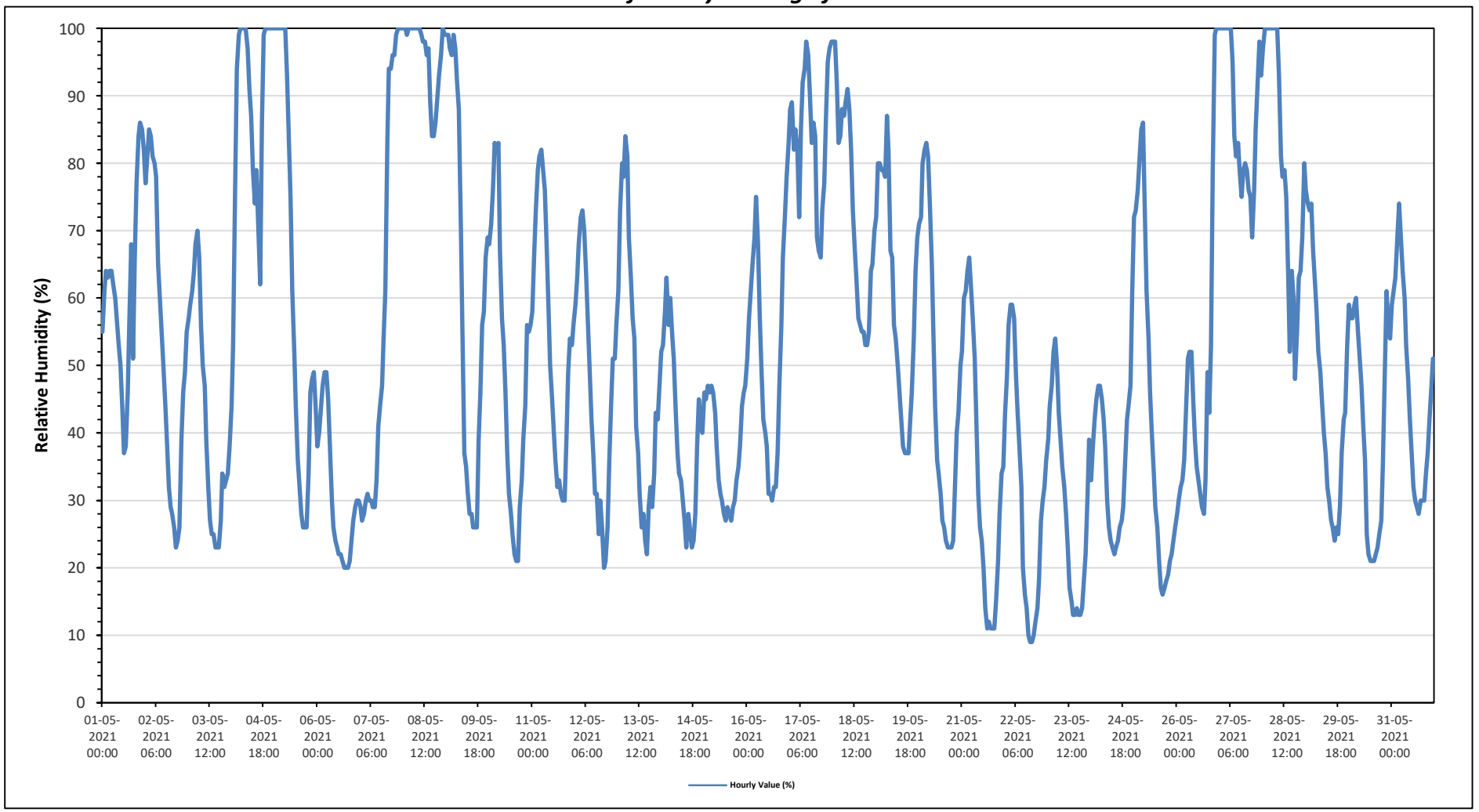
Maximum Hourly Value:	100	%	on May 4 at hour 5	Hours in Service:	744
Maximum Daily Value:	96.2	%	on May 8	Hours of Data:	744
Minimum Hourly Value:	9	%	on May 22 at hour 14	Hours of Missing Data:	0
Minimum Daily Value:	29.5	%	on May 23	Hours of Calibration:	0
Monthly Average:	53.8	%		Operational Uptime:	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
May 1	55	61	64	63	64	64	62	60	57	53	50	44	37	38	46	56	68	51	66	77	84	86	85	82	37	86	61.4
May 2	77	81	85	84	81	80	78	65	60	55	50	44	39	32	29	28	26	23	24	26	39	46	49	55	23	85	52.3
May 3	57	59	61	64	68	70	66	56	50	47	39	32	27	25	25	23	23	23	27	34	32	33	34	38	23	70	42.2
May 4	44	53	76	94	99	**100**	**100**	**100**	**100**	97	91	87	79	74	79	70	62	86	99	**100**	**100**	**100**	**100**	**100**	44	**100**	87.1
May 5	**100**	**100**	**100**	**100**	**100**	**100**	**100**	93	84	75	61	52	44	36	32	28	26	26	26	34	46	48	49	44	26	**100**	62.7
May 6	38	40	44	47	49	49	45	38	30	26	24	23	22	22	21	20	20	20	21	24	27	29	30	30	20	49	30.8
May 7	29	27	28	30	31	30	30	29	29	33	41	44	47	54	61	83	94	94	96	96	99	**100**	**100**	**100**	27	**100**	58.5
May 8	**100**	**100**	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	98	98	96	97	89	84	84	86	90	93	96	**100**	99	84	**100**	**96.2**
May 9	99	99	97	96	99	97	92	88	71	56	37	35	31	28	28	26	26	26	39	46	56	58	66	69	26	99	61.0
May 10	68	71	76	83	82	83	67	57	53	46	37	31	28	25	22	21	21	29	33	39	44	56	55	56	21	83	49.3
May 11	58	66	73	79	81	82	79	76	68	58	50	45	40	36	32	33	31	30	30	39	49	54	53	56	30	82	54.1
May 12	59	63	68	72	73	70	64	56	50	42	37	31	31	25	30	26	20	21	26	36	44	51	51	56	20	73	45.9
May 13	61	73	80	78	84	81	69	63	57	54	41	37	31	26	28	24	22	29	32	29	34	43	42	47	22	84	48.5
May 14	52	53	58	63	56	60	55	51	44	37	34	33	30	27	23	28	26	23	24	28	38	45	41	40	23	63	40.4
May 15	46	45	47	46	47	46	43	38	33	31	30	28	27	29	28	27	29	30	33	35	38	44	46	47	27	47	37.2
May 16	51	57	61	65	69	75	68	57	49	42	40	38	31	31	30	32	32	37	47	56	66	72	78	83	30	83	52.8
May 17	88	89	82	85	82	72	85	92	94	98	96	90	83	86	84	69	67	66	73	77	87	95	97	98	66	98	84.8
May 18	98	98	92	83	84	88	87	89	91	88	82	73	67	63	57	56	55	55	53	53	55	64	65	70	53	98	73.6
May 19	72	80	80	79	79	78	87	82	67	66	56	54	50	46	42	38	37	37	37	42	46	54	64	69	37	87	60.1
May 20	71	72	80	82	83	81	74	65	55	44	36	34	31	27	26	24	23	23	23	24	33	40	43	50	23	83	47.7
May 21	52	60	61	64	66	61	57	51	41	31	26	24	20	14	11	12	11	11	11	15	21	28	34	35	11	66	34.0
May 22	43	48	56	59	59	57	49	43	38	32	20	16	14	10	**9**	**9**	10	12	14	18	27	30	32	36	**9**	59	30.9
May 23	39	44	47	52	54	50	43	39	35	32	28	23	17	15	13	13	14	13	13	14	18	22	31	39	13	54	29.5
May 24	33	38	42	45	47	47	45	42	38	30	26	24	23	22	23	24	26	27	29	36	42	44	47	61	22	61	35.9
May 25	72	73	76	80	85	86	73	61	54	46	40	34	29	26	21	17	16	17	18	19	21	22	24	26	16	86	43.2
May 26	28	30	32	33	36	43	51	52	52	45	39	35	33	31	29	28	33	49	43	53	79	99	**100**	**100**	28	**100**	48.0
May 27	**100**	**100**	**100**	**100**	**100**	**100**	**100**	95	84	81	83	79	75	79	80	79	76	75	69	76	85	92	98	93	69	**100**	87.5
May 28	97	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	93	81	78	79	75	63	52	64	60	48	55	63	64	69	80	48	**100**	80.0
May 29	76	74	73	74	67	62	58	52	49	45	40	37	32	30	27	26	24	26	25	29	37	42	43	53	24	76	45.9
May 30	59	57	57	59	60	55	51	47	41	36	25	22	21	21	21	22	23	25	27	35	49	61	56	54	21	61	41.0
May 31	59	61	63	69	74	69	64	60	53	48	42	37	32	30	29	28	30	30	30	34	37	42	47	51	28	74	46.6
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	99	98	98	96	97	89	94	94	99	100	100	100	100	100			
Diurnal Average	63.9	66.8	69.6	71.9	72.9	72.1	69.1	64.4	58.9	53.8	47.8	43.9	40.3	38.0	37.0	35.8	36.1	37.4	39.4	44.2	51.3	56.8	59.0	61.8			

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 RH - Reno Station



PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

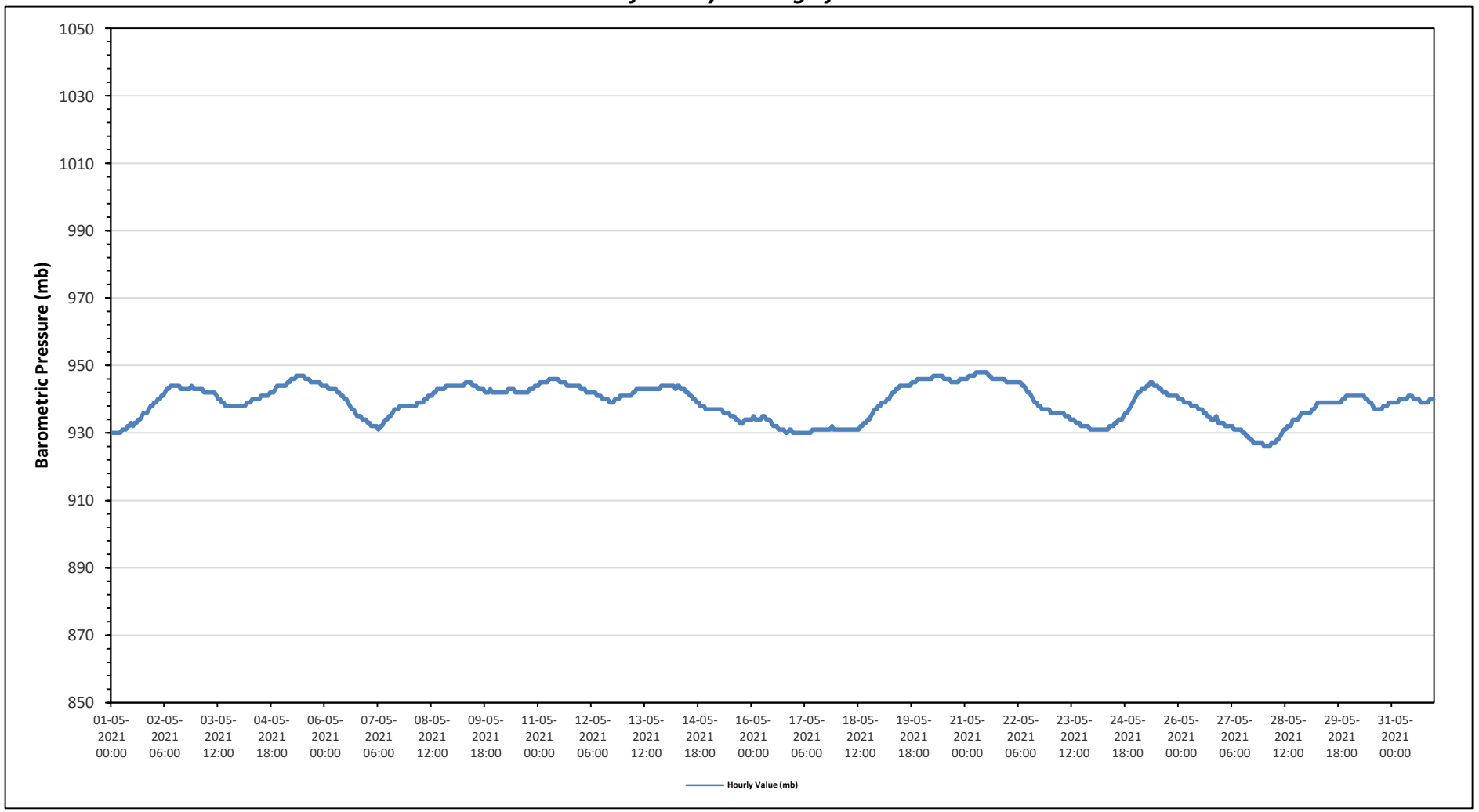
Maximum Hourly Value:	948	mb	on May 21 at hour 6	Hours in Service:	744
Maximum Daily Value:	947	mb	on May 21	Hours of Data:	744
Minimum Hourly Value:	926	mb	on May 28 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	930	mb	on May 27	Hours of Calibration:	0
Monthly Average:	939	mb		Operational 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
May 1	930	930	930	930	930	930	931	931	931	932	932	933	932	933	933	934	934	935	936	936	936	937	938	938	930	938	933.0
May 2	939	939	940	940	941	941	942	943	943	944	944	944	944	944	944	943	943	943	943	943	943	944	943	943	939	944	942.5
May 3	943	943	943	943	942	942	942	942	942	942	942	941	940	940	939	939	938	938	938	938	938	938	938	938	938	943	940.4
May 4	938	938	938	938	939	939	939	940	940	940	940	940	941	941	941	941	941	942	942	942	943	944	944	944	938	944	940.6
May 5	944	944	944	945	945	946	946	946	947	947	947	947	947	946	946	946	945	945	945	945	945	945	944	944	944	947	945.5
May 6	944	944	943	943	943	943	943	942	942	941	941	940	940	939	938	937	937	936	935	935	935	934	934	934	934	944	939.3
May 7	933	933	932	932	932	932	931	932	932	933	934	934	935	935	936	937	937	937	938	938	938	938	938	938	931	938	934.8
May 8	938	938	938	938	939	939	939	939	940	940	941	941	941	942	942	943	943	943	943	943	944	944	944	944	938	944	941.1
May 9	944	944	944	944	944	944	944	945	945	945	945	944	944	944	943	943	943	943	942	942	942	943	942	942	942	945	943.5
May 10	942	942	942	942	942	942	942	943	943	943	943	942	942	942	942	942	942	942	942	943	943	943	944	944	942	944	942.5
May 11	944	945	945	945	945	945	946	946	946	946	946	946	945	945	945	945	944	944	944	944	944	944	944	944	944	946	944.9
May 12	943	943	943	942	942	942	942	942	942	941	941	941	940	940	940	940	939	939	939	940	940	940	941	941	939	943	941.0
May 13	941	941	941	941	941	942	942	943	943	943	943	943	943	943	943	943	943	943	943	943	943	944	944	944	941	944	942.6
May 14	944	944	944	944	944	943	944	944	943	943	943	942	942	941	941	940	940	939	939	938	938	938	937	937	937	944	941.3
May 15	937	937	937	937	937	937	937	937	936	936	936	936	935	935	935	934	934	933	933	933	934	934	934	934	933	937	935.3
May 16	934	935	934	934	934	934	935	935	934	934	934	933	932	932	932	931	931	931	931	930	930	931	931	930	930	935	932.6
May 17	930	930	930	930	930	930	930	930	930	930	931	931	931	931	931	931	931	931	931	931	931	932	931	931	930	932	930.6
May 18	931	931	931	931	931	931	931	931	931	931	931	931	931	932	932	933	933	934	934	935	936	937	937	938	931	938	932.7
May 19	938	939	939	939	940	940	941	942	942	943	943	944	944	944	944	944	944	944	945	945	945	946	946	946	938	946	942.8
May 20	946	946	946	946	946	946	947	947	947	947	947	947	946	946	946	946	945	945	945	945	945	946	946	946	945	947	946.0
May 21	946	946	947	947	947	947	**948**	**948**	**948**	**948**	**948**	**948**	**948**	947	947	946	946	946	946	946	946	946	946	945	945	**948**	**946.8**
May 22	945	945	945	945	945	945	945	945	944	944	943	942	942	941	940	939	939	938	938	937	937	937	937	937	937	945	941.5
May 23	936	936	936	936	936	936	936	936	935	935	935	934	934	934	933	933	933	932	932	932	932	932	931	931	931	936	934.0
May 24	931	931	931	931	931	931	931	931	931	932	932	932	933	933	934	934	934	935	936	936	937	938	939	940	931	940	933.5
May 25	941	942	942	943	943	943	944	944	945	945	944	944	944	943	943	942	942	942	941	941	941	941	941	941	941	945	942.6
May 26	940	940	940	939	939	939	939	938	938	938	938	937	937	937	936	936	935	935	934	934	934	935	933	933	933	940	936.8
May 27	933	933	932	932	932	932	932	931	931	931	931	931	930	930	929	929	928	928	927	927	927	927	927	927	927	933	929.9
May 28	**926**	**926**	**926**	**926**	927	927	927	928	928	929	930	931	931	932	932	932	934	934	934	934	935	936	936	936	**926**	936	930.7
May 29	936	936	936	937	937	938	939	939	939	939	939	939	939	939	939	939	939	939	939	939	940	940	941	941	936	941	938.7
May 30	941	941	941	941	941	941	941	941	941	940	940	939	939	938	937	937	937	937	937	937	938	938	939	939	937	941	939.3
May 31	939	939	939	939	940	940	940	940	940	941	941	941	940	940	940	940	939	939	939	939	939	940	940	940	939	941	939.8
Diurnal Maximum	946	946	947	947	947	947	948	948	948	948	948	948	948	947	947	946	946	946	946	946	946	946	946	946			
Diurnal Average	939	939	939	939	939	939	939	939	939	939	940	939	939	939	939	939	938	938	938	938	939	939	939	939			

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 pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

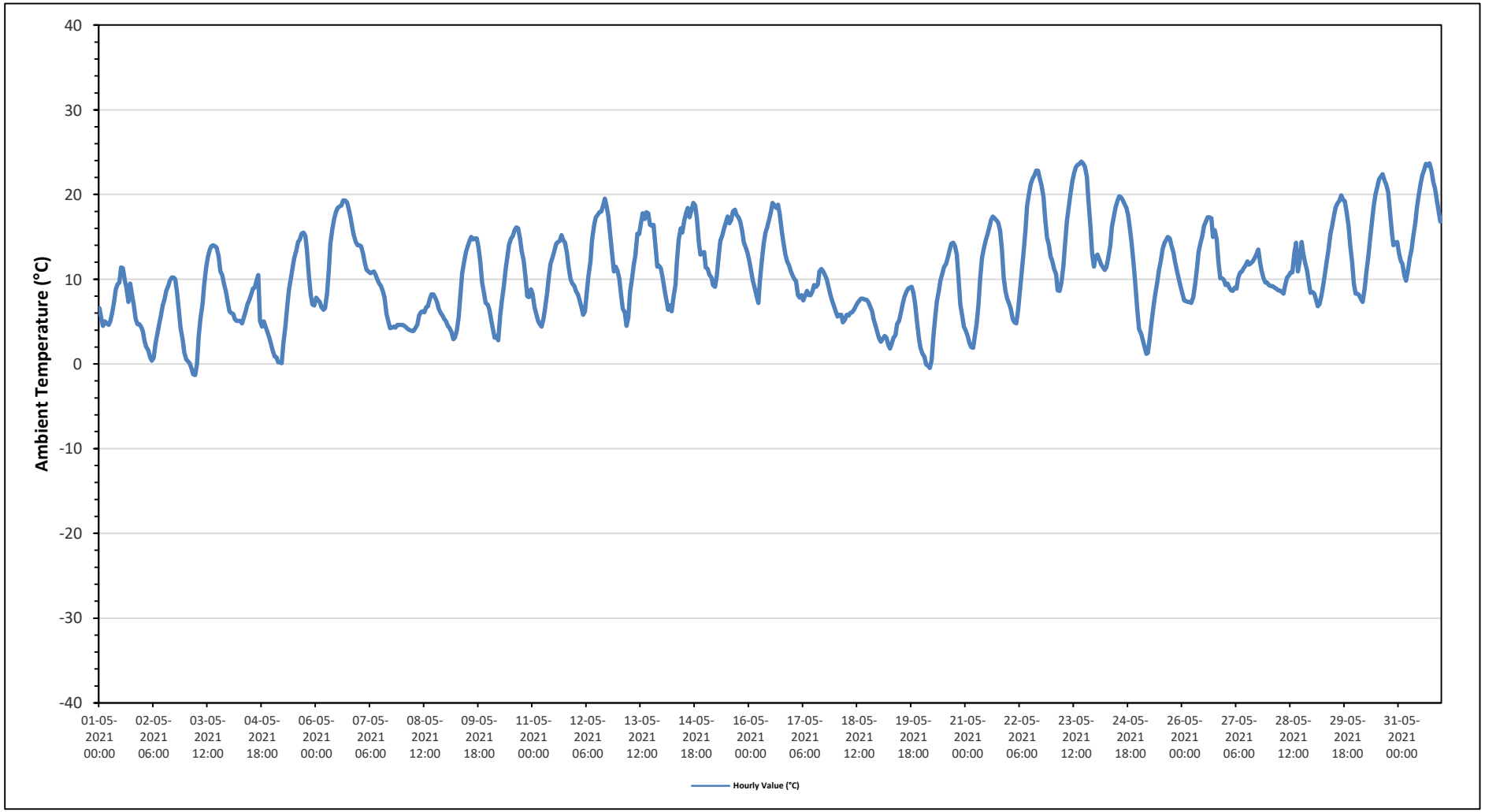
Maximum Hourly Value:	23.9	°C	on May 23 at hour 16	Hours in Service:	744
Maximum Daily Value:	17.5	°C	on May 31	Hours of Data:	744
Minimum Hourly Value:	-1.3	°C	on May 3 at hour 5	Hours of Missing Data:	0
Minimum Daily Value:	5.0	°C	on May 19	Hours of Calibration:	0
Monthly Average:	10.7	°C		Operational 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
May 1	6.6	5.3	4.5	5	4.8	4.6	5	6.1	7.3	8.8	9.4	9.6	11.4	11.3	9.8	9	7.3	9.5	8	7	5.3	4.7	4.7	4.4	4.4	11.4	7.1
May 2	3.9	2.7	2	1.6	0.8	0.4	0.7	2.5	3.4	4.7	5.7	6.9	7.6	8.6	9.2	9.8	10.2	10.2	10	8.4	6.1	4.2	2.9	1.3	0.4	10.2	5.2
May 3	0.5	0.3	0.1	-0.6	-1.2	**-1.3**	0	3.3	5.4	7	9.2	11.3	12.6	13.5	13.9	14	13.9	13.7	12.7	10.9	10.5	9.5	8.5	7.3	**-1.3**	14.0	7.3
May 4	6.2	6	5.9	5.3	5.1	5.1	5.1	4.8	5.5	6.3	7	7.6	8.2	8.9	9	9.9	10.5	5.1	4.4	5	4.4	3.8	3.1	2.4	2.4	10.5	6.0
May 5	1.5	0.9	0.8	0.2	0.2	0.1	2.5	4.5	6.8	8.8	10	11.5	12.5	13.4	14.4	14.7	15.4	15.5	15.1	13.5	10.4	8.2	7	6.9	0.1	15.5	8.1
May 6	7.8	7.6	7.3	6.7	6.4	6.6	8.3	11.1	14.2	15.9	17.1	17.9	18.4	18.6	18.7	19.3	19.3	19.1	18.4	17.3	16.1	15.2	14.4	14	6.4	19.3	14.0
May 7	14	13.9	13	11.9	11.1	10.9	10.7	10.8	10.9	10.5	10	9.5	9.2	8.5	7.8	5.9	5	4.2	4.3	4.4	4.3	4.6	4.6	4.6	4.2	14.0	8.5
May 8	4.6	4.5	4.3	4.1	4	3.9	3.9	4.2	4.6	5.7	6.1	6.2	6.1	6.7	6.8	7.7	8.2	8.2	7.8	7.3	6.5	6	5.7	5.3	3.9	8.2	5.8
May 9	5	4.5	4.2	3.8	2.9	3.1	4	5.5	8.5	10.7	12.1	13.2	13.9	14.5	15	14.7	14.8	14.8	13.7	12	9.6	8.3	7.2	7	2.9	15.0	9.3
May 10	6.4	5.2	4.1	3.1	3.3	2.8	5.8	7.6	9.1	11.1	12.8	14.1	14.8	15.1	15.8	16.1	16	14.7	13.3	12.2	10.3	8	7.9	8.8	2.8	16.1	9.9
May 11	8.3	6.7	5.9	5.1	4.7	4.4	5.4	6.6	8.4	10.4	11.9	12.5	13.4	14.2	14.4	14.5	15.2	14.6	14.3	13	11.5	10	9.5	9.2	4.4	15.2	10.2
May 12	8.6	8.2	7.5	6.7	5.8	6.2	8.4	10.4	12.1	14.6	16.3	17.3	17.6	17.9	18	18.7	19.5	18.6	17.4	15.3	13.2	10.9	11.5	11	5.8	19.5	13.0
May 13	10.1	8	6.5	6.1	4.5	5.5	8.5	9.9	11.8	12.8	15.4	15.3	16.6	17.8	17.1	17.9	17.8	16.4	16.3	16.4	14.2	11.5	11.6	11.3	4.5	17.9	12.5
May 14	10.2	8.9	7.7	6.4	6.9	6.2	7.8	9.3	12.2	14.7	16	15.5	16.9	17.8	18.4	17.3	18.2	19	18.7	17.2	14.3	12.9	13.1	13.2	6.2	19.0	13.3
May 15	11.4	11.2	10.5	10.2	9.3	9.1	10.4	12.6	14.5	15.2	15.9	16.6	17.4	16.6	17	18	18.2	17.6	17.3	16.8	15.8	14.4	13.7	13.2	9.1	18.2	14.3
May 16	12.3	11	9.8	9	8.1	7.2	9.8	12.3	14.2	15.5	16.1	17.1	18	19	18.7	18.4	18.8	17.6	15.6	14.4	12.9	12.1	11.6	11	7.2	19.0	13.8
May 17	10.4	10	9.8	8.1	7.8	8.1	7.5	8.1	8.6	8.1	8.1	8.6	9.3	9.1	9.4	10.9	11.2	10.9	10.5	10	9	8.1	7.4	6.8	6.8	11.2	9.0
May 18	6.1	5.6	5.8	5.8	4.9	5.2	5.8	5.7	6	6.1	6.4	6.8	7.2	7.5	7.7	7.7	7.6	7.6	7.3	6.8	6.2	5.3	4.5	3.7	3.7	7.7	6.2
May 19	3	2.6	3	3.3	3.1	2.3	1.8	2.4	3.1	3.4	4.7	5.1	6	7	7.9	8.5	8.9	9	9.1	8.4	7	5	3	1.9	1.8	9.1	5.0
May 20	1.2	0.9	-0.1	-0.2	-0.5	0.4	3.2	5.4	7.4	8.5	9.8	10.7	11.5	11.8	12.5	13.5	14.2	14.3	13.9	12.9	10.1	7	5.6	4.4	-0.5	14.3	7.4
May 21	3.9	3.3	2.5	2	1.9	3.2	4.8	7	10.2	12.5	13.6	14.6	15.2	16.1	17	17.4	17.2	16.9	16.7	15.7	13.5	10.2	8.6	7.7	1.9	17.4	10.5
May 22	7.1	6.5	5.3	4.9	4.8	6.3	8.8	11	13.2	15.6	18.7	20	21.2	21.9	22.2	22.8	22.8	21.8	21.1	19.7	17	14.9	14.1	12.7	4.8	22.8	14.8
May 23	12.1	11.2	10.6	8.7	8.6	9.6	11.6	14	16.9	18.5	20.1	21.5	22.5	23.2	23.5	23.6	**23.9**	23.7	23.3	22.1	19.4	16.3	13	11.5	8.6	**23.9**	17.1
May 24	12.7	12.9	12.3	11.8	11.4	11.1	11.5	12.6	14	16.1	17.4	18.5	19.3	19.8	19.7	19.3	18.9	18.4	17.5	15.9	14.1	11.6	9.5	6.4	6.4	19.8	14.7
May 25	4.1	3.6	2.9	2.1	1.2	1.3	3.2	5	6.7	8.2	9.6	11.1	12.1	13.5	14.3	14.6	15	14.8	14	13.2	12	10.9	10.1	9.1	1.2	15.0	8.9
May 26	8.3	7.5	7.4	7.3	7.3	7.2	7.9	9.3	11.1	13.2	14.3	15	16.3	16.8	17.3	17.3	17.2	15	15.8	14.7	12	10.1	10.1	9.9	7.2	17.3	12.0
May 27	9.3	9.5	9	8.7	8.6	9	8.9	10.1	10.8	10.9	11.3	11.6	12.1	11.7	11.9	12.1	12.5	12.9	13.5	12	11	10.1	9.6	9.6	8.6	13.5	10.7
May 28	9.3	9.2	9.2	9	8.9	8.7	8.7	8.5	8.3	9.2	10.2	10.4	10.8	10.8	13.1	14.3	10.9	12.1	14.4	13.1	11.9	11.1	9.9	8.4	8.3	14.4	10.4
May 29	8.5	8.3	7.7	6.8	7.1	8	9.2	10.8	12	13.6	15.3	16.3	17.5	18.5	19	19.2	19.9	19.4	19.2	18	16.3	13.9	12.1	9.5	6.8	19.9	13.6
May 30	8.3	8.3	8.1	7.6	7.3	8.9	10.9	12.6	14.6	16.8	18.7	20	20.9	21.8	22.1	22.4	21.6	21.2	20.3	18.1	15.5	14	14.3	14.4	7.3	22.4	15.4
May 31	13.1	12.2	11.8	10.5	9.8	11.1	12.5	13.5	15.1	16.7	18.4	20	21.3	22.3	22.9	23.6	23.4	23.7	22.8	21.5	20.7	19.4	17.9	16.8	9.8	23.7	**17.5**
Diurnal Maximum	14.0	13.9	13.0	11.9	11.4	11.1	12.5	14.0	16.9	18.5	20.1	21.5	22.5	23.2	23.5	23.6	23.9	23.7	23.3	22.1	20.7	19.4	17.9	16.8			
Diurnal Average	7.6	7.0	6.4	5.8	5.4	5.7	6.9	8.3	9.9	11.3	12.5	13.3	14.1	14.7	15.0	15.3	15.3	14.9	14.4	13.3	11.6	10.1	9.2	8.5			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance	
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance	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 pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

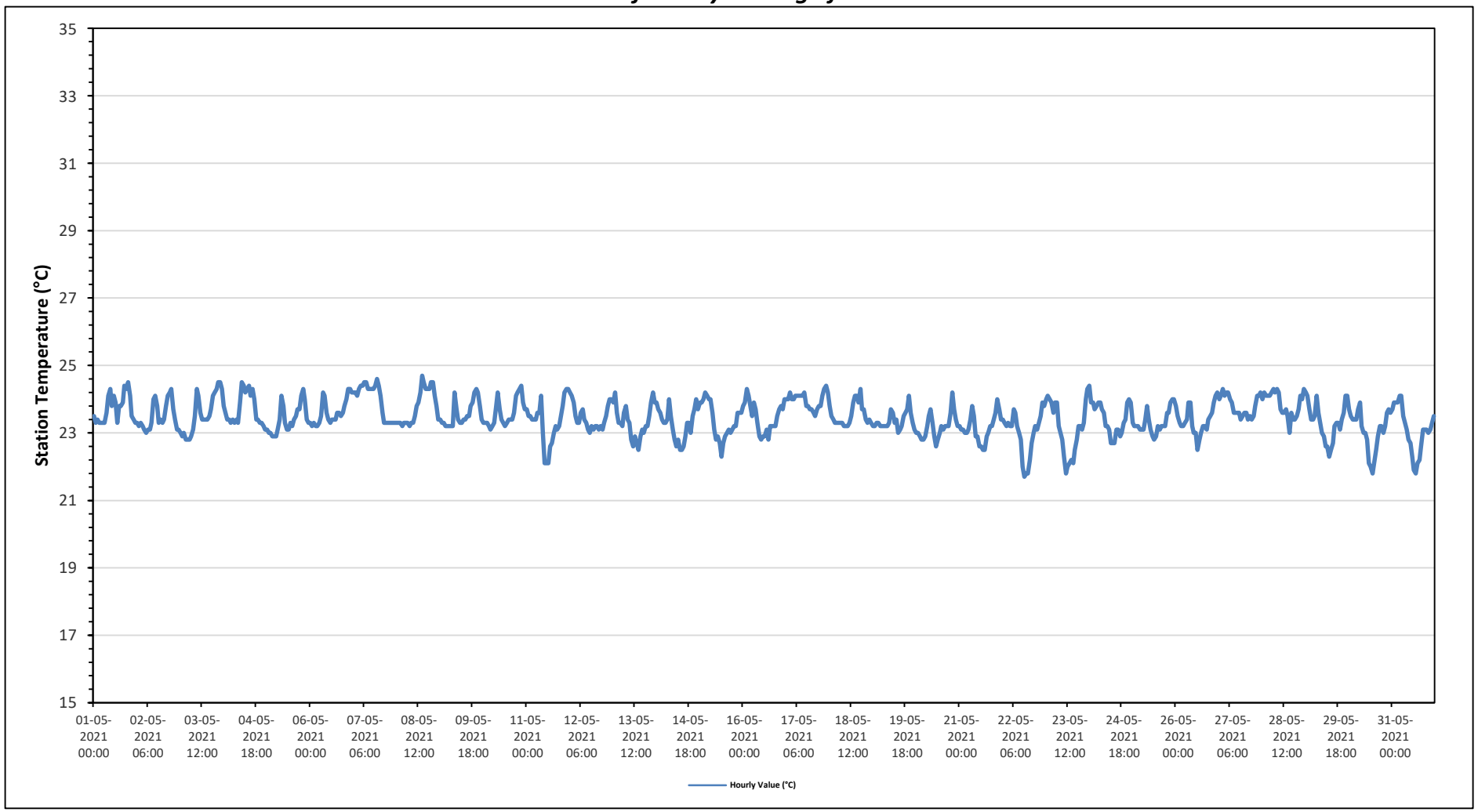
Maximum Hourly Value:	24.7	°C	on May 8 at hour 14	Hours in Service:	744
Maximum Daily Value:	24.0	°C	on May 7	Hours of Data:	744
Minimum Hourly Value:	21.7	°C	on May 22 at hour 12	Hours of Missing Data:	0
Minimum Daily Value:	23.0	°C	on May 22	Hours of Calibration:	0
Monthly Average:	23.5	°C		Operational 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
May 1	23.5	23.3	23.4	23.3	23.3	23.3	23.3	23.6	24.1	24.3	23.8	24.1	23.9	23.3	23.8	23.8	23.9	24.4	24.3	24.5	24.1	23.5	23.4	23.3	23.3	24.5	23.7
May 2	23.3	23.2	23.3	23.2	23.1	23.0	23.1	23.1	23.3	24.0	24.1	23.8	23.3	23.4	23.3	23.4	23.8	24.1	24.2	24.3	23.7	23.4	23.1	23.1	23.0	24.3	23.5
May 3	23.0	22.9	23.0	22.8	22.8	22.8	22.9	23.1	23.5	24.3	24.1	23.6	23.4	23.4	23.4	23.4	23.5	23.7	24.1	24.2	24.3	24.5	24.5	24.3	22.8	24.5	23.6
May 4	23.8	23.6	23.4	23.4	23.3	23.4	23.3	23.4	23.3	23.9	24.5	24.4	24.2	24.3	24.4	24.1	24.3	24.0	23.4	23.4	23.3	23.3	23.2	23.1	23.1	24.5	23.7
May 5	23.1	23.0	23.0	22.9	22.9	22.9	23.1	23.4	24.1	23.8	23.3	23.1	23.1	23.3	23.2	23.4	23.5	23.7	23.7	24.1	24.3	24.0	23.4	23.3	22.9	24.3	23.4
May 6	23.3	23.2	23.3	23.2	23.2	23.3	23.5	24.2	24.1	23.6	23.4	23.3	23.4	23.4	23.4	23.6	23.6	23.5	23.6	23.8	24.0	24.3	24.3	24.2	23.2	24.3	23.6
May 7	24.2	24.2	24.1	24.3	24.4	24.4	24.5	24.5	24.3	24.3	24.3	24.3	24.4	24.6	24.4	24.1	23.6	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	24.6	**24.0**
May 8	23.3	23.3	23.3	23.2	23.3	23.3	23.3	23.2	23.3	23.3	23.5	23.8	23.9	24.2	**24.7**	24.5	24.3	24.3	24.3	24.5	24.5	24.1	23.8	23.4	23.2	**24.7**	23.8
May 9	23.4	23.3	23.3	23.2	23.2	23.2	23.2	23.2	24.2	23.7	23.4	23.3	23.3	23.4	23.4	23.5	23.5	23.8	23.9	24.2	24.3	24.2	23.8	23.4	23.2	24.3	23.6
May 10	23.3	23.3	23.3	23.2	23.1	23.2	23.3	23.8	24.2	23.7	23.4	23.3	23.2	23.3	23.4	23.4	23.4	23.6	24.1	24.2	24.3	24.4	23.9	23.7	23.1	24.4	23.6
May 11	23.7	23.5	23.5	23.4	23.4	23.4	23.6	23.6	24.1	23.0	22.1	22.1	22.1	22.6	22.7	23.0	23.2	23.1	23.2	23.5	23.8	24.2	24.3	24.3	22.1	24.3	23.3
May 12	24.2	24.1	23.9	23.5	23.3	23.3	23.6	23.7	23.4	23.3	23.1	23.0	23.2	23.1	23.2	23.2	23.1	23.2	23.1	23.3	23.5	23.8	24.0	24.0	23.0	24.2	23.5
May 13	23.9	24.2	23.6	23.3	23.3	23.2	23.6	23.8	23.4	23.3	22.8	22.6	22.9	22.7	22.5	22.9	23.1	23.0	23.2	23.2	23.5	23.9	24.2	23.9	22.5	24.2	23.3
May 14	23.9	23.7	23.6	23.4	23.3	23.3	23.4	24.0	23.5	23.1	22.8	22.6	22.8	22.5	22.5	22.6	22.9	23.3	23.3	23.0	23.5	23.7	24.0	23.7	22.5	24.0	23.3
May 15	23.9	23.9	24.0	24.2	24.1	24.0	24.0	23.6	23.1	22.8	22.9	22.7	22.3	22.7	22.9	23.0	23.1	23.0	23.1	23.2	23.2	23.6	23.6	23.6	22.3	24.2	23.4
May 16	23.8	23.9	24.3	24.1	23.8	23.5	23.9	23.7	23.3	22.9	22.8	22.9	22.9	23.1	22.8	23.2	23.2	23.2	23.2	23.5	23.7	23.8	23.7	24.0	22.8	24.3	23.5
May 17	24.0	24.0	24.2	24.0	24.0	24.1	24.1	24.1	24.1	24.1	24.2	23.8	23.8	23.7	23.7	23.6	23.5	23.7	23.8	23.8	24.1	24.3	24.4	24.2	23.5	24.4	24.0
May 18	23.8	23.5	23.4	23.3	23.3	23.3	23.3	23.3	23.2	23.2	23.2	23.3	23.5	23.9	24.1	24.1	23.9	24.3	23.7	23.7	23.4	23.3	23.4	23.3	23.2	24.3	23.5
May 19	23.2	23.2	23.3	23.3	23.2	23.2	23.2	23.2	23.2	23.3	23.7	23.6	23.3	23.4	23.0	23.1	23.2	23.5	23.6	23.7	24.1	23.6	23.3	23.1	23.0	24.1	23.4
May 20	23.0	23.0	22.9	22.8	22.8	22.9	23.2	23.5	23.7	23.3	22.9	22.6	22.8	23.0	23.2	23.1	23.2	23.2	23.2	23.6	24.2	23.7	23.4	23.2	22.6	24.2	23.2
May 21	23.2	23.1	23.1	23.0	23.0	23.1	23.4	23.8	23.5	22.9	22.9	22.6	22.6	22.5	22.5	22.9	23.0	23.2	23.2	23.4	23.6	24.0	23.7	23.4	22.5	24.0	23.2
May 22	23.4	23.3	23.2	23.3	23.2	23.2	23.7	23.6	23.2	23.0	22.8	22.0	**21.7**	21.8	21.8	22.2	22.7	23.0	23.2	23.1	23.3	23.5	23.9	23.8	**21.7**	23.9	23.0
May 23	24.0	24.1	24.0	23.9	23.6	23.9	23.9	23.2	23.0	22.8	22.3	21.8	22.0	22.1	22.2	22.1	22.5	22.8	23.2	23.2	23.1	23.3	24.0	24.3	21.8	24.3	23.1
May 24	24.4	23.9	23.9	23.7	23.8	23.9	23.9	23.7	23.6	23.2	23.2	23.1	22.7	22.7	22.7	23.1	23.1	22.9	23.0	23.3	23.4	23.9	24.0	23.9	22.7	24.4	23.5
May 25	23.3	23.2	23.2	23.2	23.1	23.1	23.1	23.4	23.8	23.4	23.1	22.9	22.8	22.9	23.2	23.1	23.2	23.2	23.2	23.6	23.6	23.9	24.0	24.0	22.8	24.0	23.3
May 26	23.8	23.5	23.3	23.2	23.2	23.3	23.4	23.9	23.9	23.2	23.0	23.0	22.5	22.8	23.0	23.2	23.2	23.1	23.4	23.5	23.6	23.9	24.1	24.2	22.5	24.2	23.4
May 27	24.0	24.1	24.3	24.1	24.2	24.2	24.0	23.9	23.6	23.6	23.6	23.6	23.4	23.5	23.6	23.6	23.4	23.5	23.4	23.5	23.8	24.1	24.1	24.2	23.4	24.3	23.8
May 28	24.0	24.2	24.1	24.1	24.1	24.2	24.3	24.2	24.3	24.2	23.7	23.6	23.6	23.7	23.5	23.0	23.6	23.4	23.4	23.5	23.7	24.1	24.0	24.3	23.0	24.3	23.9
May 29	24.2	24.1	23.7	23.4	23.4	23.5	24.1	23.6	23.3	23.0	22.9	22.6	22.6	22.3	22.5	22.7	23.2	23.3	23.3	23.1	23.4	23.6	24.1	24.1	22.3	24.2	23.3
May 30	23.7	23.5	23.4	23.4	23.4	23.7	23.9	23.2	23.0	23.0	22.8	22.1	22.0	21.8	22.1	22.5	22.9	23.2	23.2	23.0	23.2	23.6	23.7	23.6	21.8	23.9	23.1
May 31	23.7	23.9	23.9	23.9	24.1	24.1	23.5	23.3	23.1	22.8	22.7	22.3	21.9	21.8	22.1	22.2	22.6	23.1	23.1	23.1	23.0	23.1	23.3	23.5	21.8	24.1	23.1
Diurnal Maximum	24.4	24.2	24.3	24.3	24.4	24.4	24.5	24.5	24.3	24.3	24.5	24.4	24.4	24.6	24.7	24.5	24.3	24.4	24.3	24.5	24.5	24.5	24.5	24.3			
Diurnal Average	23.7	23.6	23.6	23.5	23.4	23.5	23.6	23.6	23.6	23.4	23.3	23.1	23.0	23.1	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.8	23.7			

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 ST - Reno Station



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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

PRECIPITATION in mm

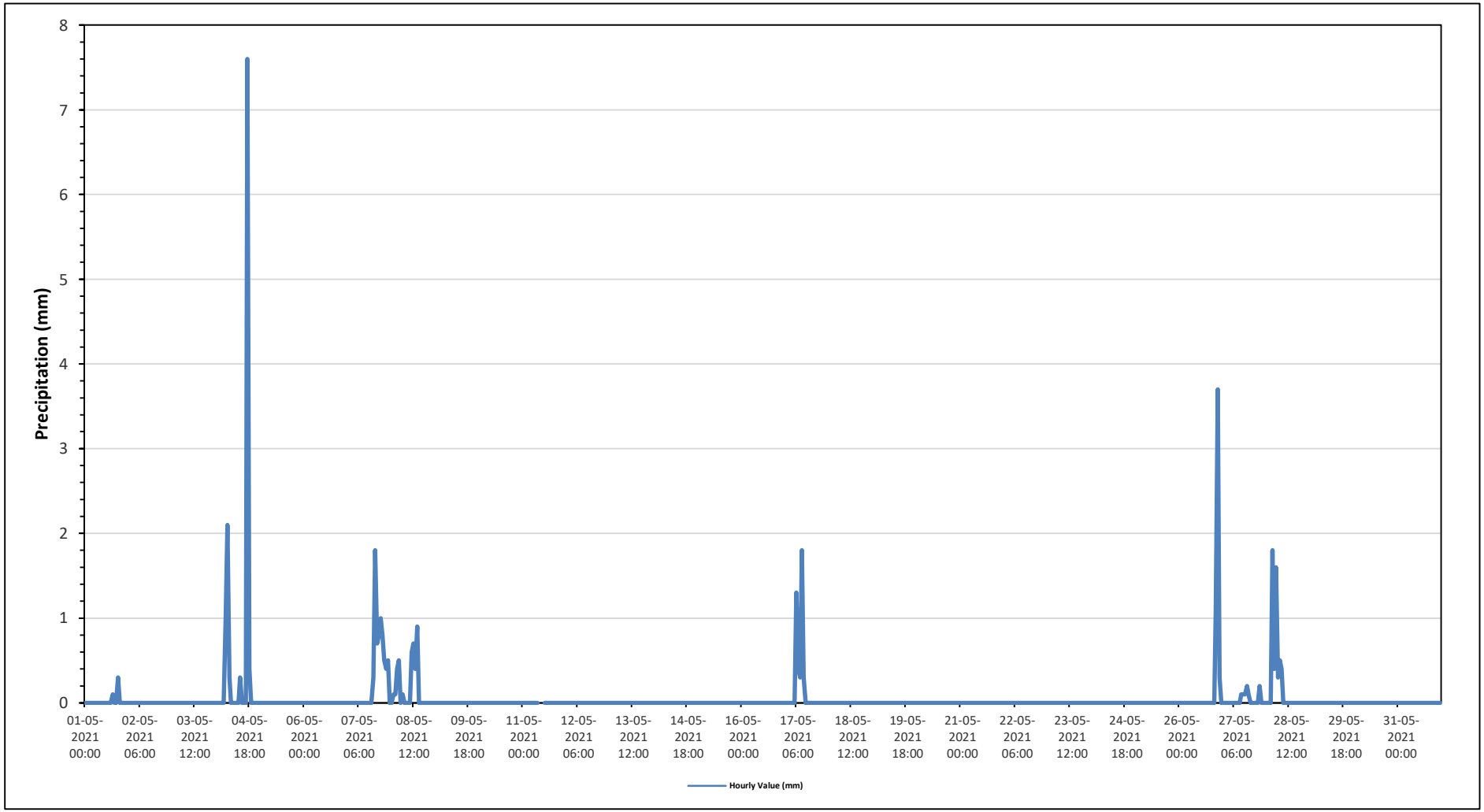
Maximum Hourly Value:	7.6	mm	on May 4 at hour 17	Hours in Service:	744
Maximum Daily Value:	11.7	mm	on May 4	Hours of Data:	741
Minimum Hourly Value:	0.0	mm	on May 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	mm	on May 2	Hours of Calibration:	3
Monthly Total:	37.7	mm		Operational Uptime:	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	Total
May 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0.3	0	0	0	0	0	0.0	0.3	0.4
May 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
May 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 4	0	0	0	0	0	1	2.1	0.3	0	0	0	0	0	0.3	0	0	0	**7.6**	0.4	0	0	0	0	0	0.0	**7.6**	**11.7**
May 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
May 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
May 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	1.8	0.7	0.8	1	0.8	0.5	0.4	0.5	0	0.0	1.8	6.8
May 8	0	0.1	0.1	0.4	0.5	0	0.1	0	0	0	0	0.6	0.7	0.4	0.9	0	0	0	0	0	0	0	0	0	0.0	0.9	3.8
May 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
May 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
May 11	0	0	0	0	0	0	0	0	0	**C**	**C**	**C**	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 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
May 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
May 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
May 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
May 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
May 17	0	0	0	0	0	0	1.3	0.4	0.3	1.8	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.8	4.1
May 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	0.0	0.0	0.0
May 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
May 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
May 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
May 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
May 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
May 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
May 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	3.7	0.3	0	0.0	3.7	5.1
May 27	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.1	0	0	0	0	0	0.2	0	0	0	0.0	0.2	0.8
May 28	0	0	0	1.8	0.4	1.6	0.3	0.5	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1.8	5.0
May 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
May 31	0	0	0	0	0	0	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	0.1	0.1	1.8	0.5	1.6	2.1	0.5	0.4	1.8	0.3	0.6	0.7	0.4	0.9	1.8	0.7	7.6	1.0	0.8	1.1	3.7	0.5	0.0			
Diurnal Average	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	0.1	0.0	0.1	0.1	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



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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

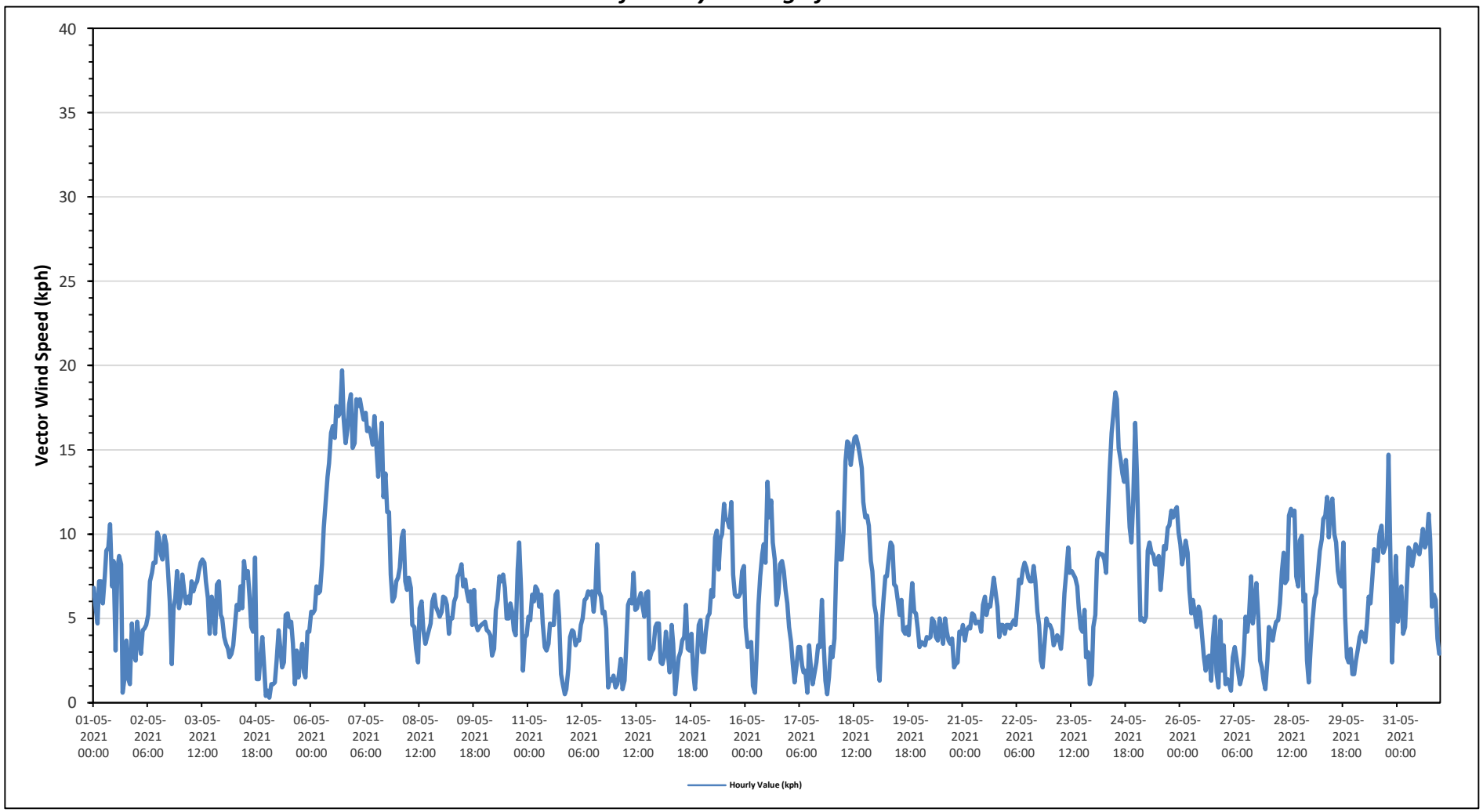
Maximum Hourly Value:	19.7	kph	on May 6 at hour 17	Hours in Service:	744
Maximum Daily Value:	13.7	kph	on May 7	Hours of Data:	744
Minimum Hourly Value:	0.3	kph	on May 5 at hour 1	Hours of Missing Data:	0
Minimum Daily Value:	0.3	kph	on May 17	Hours of Calibration:	0
Monthly Average:	1.1	kph		Operational 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
May 1	6.8	5.7	4.7	7.2	7.2	5.9	7.5	9.0	9.2	10.6	6.9	8.4	3.1	7.9	8.7	8.2	0.6	1.5	3.7	1.4	1.1	4.7	2.9	2.5	0.6	10.6	4.6
May 2	4.8	3.8	2.9	4.3	4.4	4.6	5.2	7.2	7.7	8.3	8.3	10.1	9.8	8.8	8.5	9.9	9.4	7.8	6.0	2.3	5.6	6.2	7.8	5.6	2.3	10.1	4.9
May 3	6.2	7.6	6.6	5.9	6.3	5.9	7.2	6.6	7.0	7.2	7.8	8.3	8.5	8.3	7.2	6.2	4.1	6.3	5.8	4.1	7.0	7.2	5.2	5.0	4.1	8.5	6.3
May 4	3.9	3.5	3.2	2.7	2.9	3.4	4.8	5.8	5.5	6.9	5.6	8.4	7.4	7.8	6.3	4.5	4.2	8.6	1.4	1.4	2.7	3.9	2.2	0.4	0.4	8.6	2.9
May 5	0.7	**0.3**	1.1	1.1	1.2	2.5	4.3	3.2	2.1	2.4	5.2	5.3	4.5	4.8	3.5	1.1	3.1	1.5	2.5	3.5	1.8	1.5	4.2	4.2	**0.3**	5.3	1.2
May 6	5.4	5.3	5.5	6.9	6.5	6.6	8.2	10.4	11.8	13.4	14.2	16.0	16.4	15.7	17.6	17.0	17.2	**19.7**	16.9	15.4	16.2	17.7	18.3	15.1	5.3	**19.7**	12.9
May 7	15.4	18.0	17.6	18.0	17.3	16.8	17.2	16.1	16.3	15.9	15.3	17.0	15.4	13.4	15.1	16.6	12.2	13.6	11.3	11.3	7.6	6.0	6.3	7.2	6.0	18.0	**13.7**
May 8	7.4	8.0	9.8	10.2	7.2	6.7	7.4	6.8	4.6	4.5	3.2	2.4	5.6	6.0	4.3	3.5	3.9	4.3	4.7	6.0	6.4	5.7	5.4	5.1	2.4	10.2	5.5
May 9	5.4	6.3	6.2	5.8	4.1	5.0	5.0	6.0	6.3	7.5	7.7	8.2	6.9	7.3	6.6	6.0	6.6	4.6	6.7	4.7	4.3	4.5	4.6	4.7	4.1	8.2	5.6
May 10	4.8	4.3	4.2	4.0	2.8	3.2	5.5	6.1	7.5	7.2	7.6	6.8	5.0	5.0	5.9	5.4	4.3	4.0	7.9	9.5	6.6	1.9	3.9	4.0	1.9	9.5	3.6
May 11	5.1	4.9	6.4	6.0	6.9	6.7	5.7	6.4	4.7	3.3	3.1	3.5	4.7	4.6	4.6	6.4	6.6	5.1	1.7	1.1	0.5	0.8	2.0	3.9	0.5	6.9	3.6
May 12	4.3	4.2	3.4	3.7	3.7	4.6	5.0	6.1	6.2	6.6	6.4	6.6	5.4	6.5	9.4	6.6	6.3	5.3	5.4	4.4	0.9	1.4	1.3	1.6	0.9	9.4	3.8
May 13	0.9	1.1	1.6	2.6	0.8	1.3	3.1	5.8	6.1	5.9	7.7	5.5	5.6	6.1	6.5	5.8	5.1	6.5	6.6	2.6	3.0	3.2	4.5	4.7	0.8	7.7	3.2
May 14	4.7	2.4	2.3	2.8	4.2	2.9	1.8	4.6	3.5	0.5	1.6	2.7	3.0	3.7	3.9	5.8	3.2	3.1	4.1	1.8	0.8	2.4	4.6	4.9	0.5	5.8	0.5
May 15	3.0	3.0	4.2	5.1	5.3	6.7	6.3	9.8	10.2	7.9	9.7	10.0	11.8	10.9	10.8	10.4	11.9	7.6	6.4	6.3	6.3	6.5	7.8	8.1	3.0	11.9	7.6
May 16	4.5	3.3	3.4	3.6	1.0	0.6	2.6	5.8	7.5	8.8	9.4	8.3	13.1	11.0	12.0	9.5	8.5	5.8	6.5	8.2	8.4	7.8	6.7	5.9	0.6	13.1	6.3
May 17	4.5	3.6	2.3	1.2	2.1	3.3	3.3	2.2	1.8	1.9	0.6	3.4	2.1	1.1	1.8	2.4	3.4	3.3	6.1	3.5	1.3	0.5	1.5	3.3	0.5	6.1	**0.3**
May 18	2.7	3.8	8.0	11.3	8.5	8.5	10.1	14.3	15.5	15.4	14.1	15.0	15.7	15.8	15.3	14.7	13.9	11.9	11.0	11.1	10.5	8.4	7.8	5.8	2.7	15.8	10.8
May 19	5.2	2.1	1.3	4.5	6.0	7.5	7.5	8.5	9.5	9.3	7.0	6.9	6.0	5.2	6.1	4.3	4.1	4.5	4.0	5.6	7.1	5.4	5.3	4.4	1.3	9.5	4.2
May 20	3.3	3.6	3.5	3.4	3.9	3.8	3.9	5.0	4.8	3.9	3.7	5.0	4.3	3.5	5.0	4.2	3.7	3.5	3.8	2.1	2.3	2.4	4.2	4.1	2.1	5.0	3.6
May 21	4.6	3.7	4.3	4.5	4.4	5.3	5.2	4.7	4.8	4.8	4.2	5.8	6.3	5.2	5.8	5.7	6.5	7.4	6.6	5.7	3.9	4.6	4.6	4.1	3.7	7.4	4.9
May 22	4.6	4.6	4.4	4.7	4.9	4.6	5.9	7.3	7.1	7.9	8.3	8.0	7.4	7.2	7.2	8.1	7.2	5.4	4.6	2.5	2.1	3.6	5.0	4.6	2.1	8.3	5.6
May 23	4.6	4.3	3.4	3.7	4.0	3.8	3.2	4.2	6.5	7.7	9.2	7.7	7.8	7.6	7.4	6.9	5.6	4.4	4.2	5.5	2.7	3.0	1.1	1.6	1.1	9.2	3.4
May 24	4.5	5.2	8.5	8.9	8.8	8.8	8.5	7.7	11.3	13.7	16.0	17.1	18.4	18.0	15.1	14.4	13.6	13.1	14.4	12.5	10.4	9.5	11.9	16.6	4.5	18.4	11.4
May 25	13.5	9.1	4.9	5.0	4.8	5.1	9.0	9.5	8.9	8.8	8.2	8.2	8.7	6.7	7.7	9.3	9.1	10.4	10.5	11.4	11.0	11.4	11.6	10.1	4.8	13.5	8.1
May 26	9.4	8.2	8.9	9.6	8.9	6.7	5.3	6.1	5.3	4.5	5.7	5.4	4.1	2.7	1.9	2.7	2.8	1.3	3.8	5.1	1.8	0.9	4.9	1.9	0.9	9.6	3.6
May 27	3.4	1.1	1.4	1.1	0.7	2.7	3.3	2.6	1.8	1.1	1.6	2.9	5.1	4.2	5.2	7.5	4.7	5.8	7.1	5.0	2.5	2.1	1.3	0.8	0.7	7.5	1.5
May 28	2.5	4.5	4.2	3.7	4.4	4.8	4.9	5.9	7.8	8.9	7.1	7.3	11.1	11.5	11.1	11.4	7.5	6.9	9.6	9.9	6.0	6.4	2.5	1.2	1.2	11.5	6.1
May 29	3.4	4.9	6.2	6.5	7.8	9.0	9.7	10.9	11.1	12.2	9.8	11.7	12.1	10.0	9.5	7.8	7.1	6.9	9.5	5.1	2.7	2.4	3.2	1.7	1.7	12.2	7.5
May 30	1.7	2.5	3.2	3.9	4.2	4.0	3.6	4.7	6.3	5.9	7.3	9.1	8.6	8.4	10.0	10.5	8.9	9.2	9.5	14.7	8.2	2.4	5.4	8.7	1.7	14.7	6.4
May 31	4.8	5.9	6.9	4.1	4.5	6.6	9.2	9.0	8.1	8.7	9.4	9.1	8.8	9.6	10.3	9.2	9.5	11.2	9.7	5.7	6.4	6.1	3.8	2.9	2.9	11.2	7.4
Diurnal Maximum	15	18	18	18	17	17	17	16	16	16	16	17	18	18	18	17	17	20	17	15	16	18	18	17			
Diurnal Average	5.0	4.8	5.0	5.4	5.2	5.4	6.1	7.0	7.3	7.5	7.5	8.1	8.2	7.9	8.1	7.8	6.9	6.8	6.8	6.1	5.1	4.9	5.2	5.0			

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)			

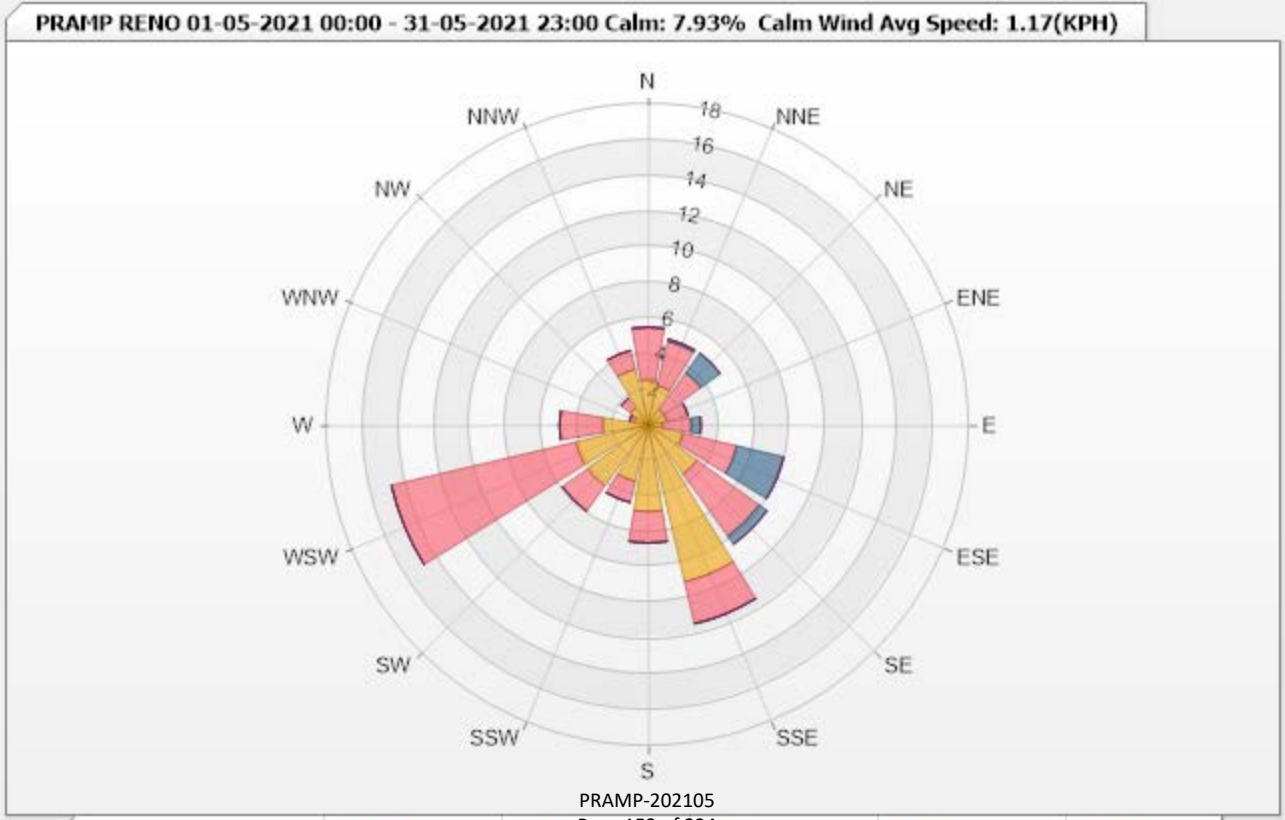
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for VWS - Reno Station



Wind: PRAMP RENO Monitor: WDS [KPH] Monthly: 05-2021 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 7.93% 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	2.55	2.96	0	0	0	5.51
NNE	2.28	2.55	0.13	0	0	4.96
NE	1.08	2.55	1.34	0	0	4.97
ENE	1.08	1.21	0	0	0	2.29
E	0.81	1.61	0.54	0	0	2.96
ESE	2.02	3.09	2.69	0	0	7.8
SE	3.36	4.3	0.54	0	0	8.2
SSE	9.01	2.42	0	0	0	11.43
S	4.84	1.75	0	0	0	6.59
SSW	3.23	1.21	0	0	0	4.44
SW	4.17	1.75	0	0	0	5.92
WSW	4.17	10.62	0	0	0	14.79
W	2.55	2.42	0	0	0	4.97
WNW	0.81	0.27	0	0	0	1.08
NW	1.21	0.67	0	0	0	1.88
NNW	3.23	1.08	0	0	0	4.31
Summary	46.4	40.46	5.24	0	0	92.1


PRAMP RENO 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 7.93% Calm Wind Avg Speed: 1.17(KPH)
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
% Icon Classes (KPH)
46 1.8-6.0
40 6.0-15.0
5 15.0-29.0
0 29.0-39.0
0 >39.0

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

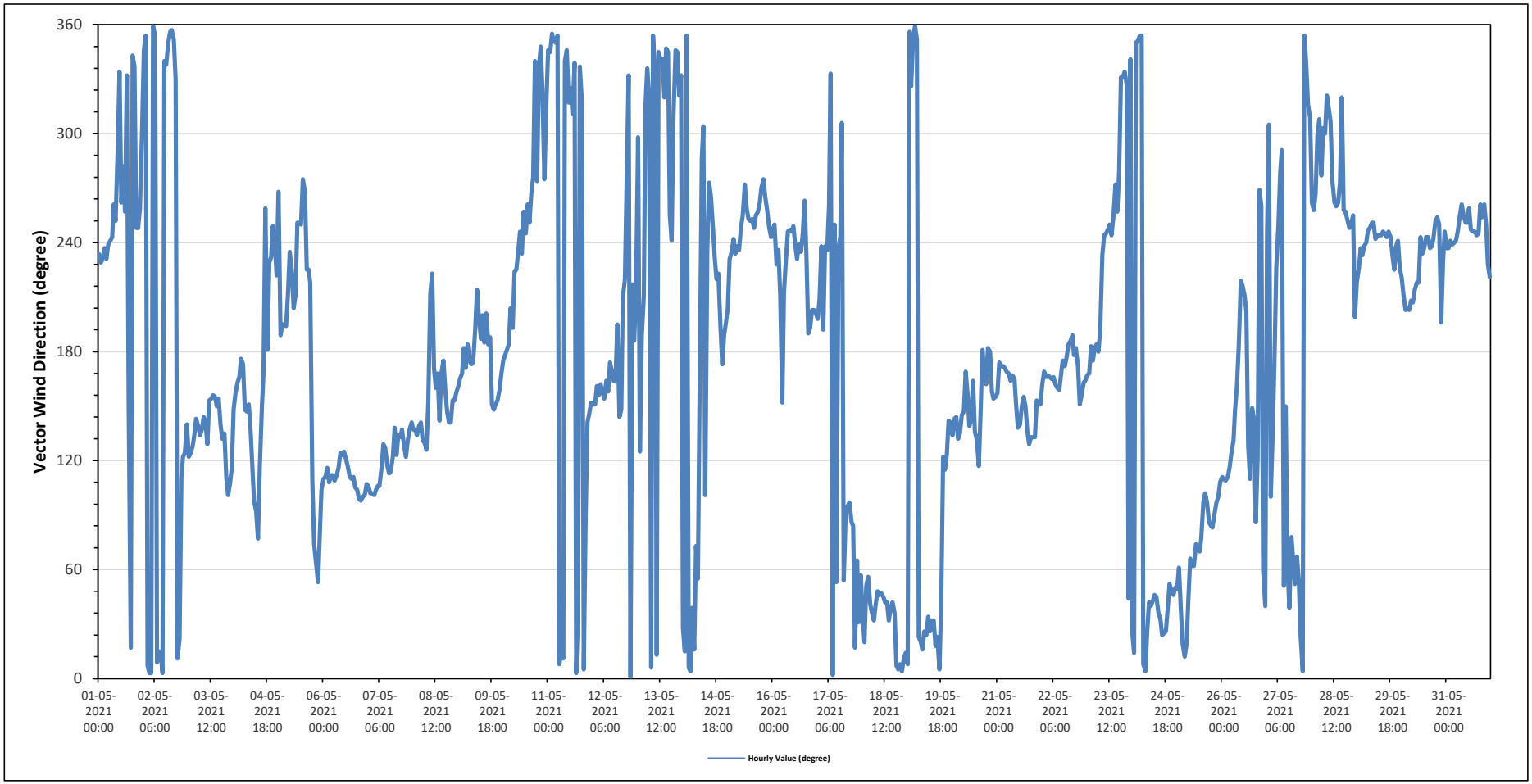
Monthly Average:	155 (SSE)	degree	
Hours in Service:	744		
Hours of Data:	744		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

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
May 1	SW	SW	SW	SW	SW	WSW	WSW	WSW	W	WSW	WNW	NNW	W	W	WSW	NNW	SSE	NNE	NNW	NNW	WSW	WSW	WSW	WNW	263	W
May 2	NNW	N	N	N	N	N	N	N	NNE	NNE	N	NNW	NNW	N	N	N	N	NNW	NNE	NNE	ESE	ESE	ESE	SE	6	N
May 3	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	ESE	E	ESE	ESE	136	SE
May 4	SE	SSE	SSE	SSE	S	S	SE	SE	SSE	SE	ESE	E	E	ENE	ESE	SSE	SSE	WSW	S	SW	SW	WSW	WSW	SW	147	SE
May 5	W	S	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	WSW	WSW	WSW	W	W	SW	SW	SW	ESE	ENE	ENE	NE	E	ESE	223	SW
May 6	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	ESE	110	ESE
May 7	ESE	E	E	E	ESE	ESE	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	SE	ESE	SE	SE	SE	SE	ESE	SE	SE	SE	118	ESE
May 8	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSW	SW	S	SSE	SSE	SE	SSE	S	SSE	SE	SE	SE	SSE	SSE	SSE	148	SE
May 9	SSE	SSE	SSE	S	S	S	S	S	S	S	SSW	SSW	S	SSW	S	SSW	S	S	SSE	SE	SSE	SSE	SSE	SSE	179	S
May 10	S	S	S	S	SSW	S	SW	SW	SW	WSW	SW	WSW	WSW	W	WSW	W	W	NNW	W	NNW	NNW	NW	W	NW	253	WSW
May 11	NNW	NNW	N	N	N	N	N	NNE	NNE	NNW	NNW	NW	NW	NW	NNW	N	NE	NNW	NW	N	E	SE	SE	SSE	354	N
May 12	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	SSE	SSW	SE	SE	SSW	SW	W	NNW	N	SW	S	SSW	172	S
May 13	WNW	SE	S	SSW	NW	NNW	NW	N	N	NNW	NNE	NNW	NNW	NNW	NW	NNW	NNW	WSW	WSW	NW	NNW	NNW	NW	NNW	331	NNW
May 14	NNE	NNE	N	N	N	NE	NNE	ENE	NE	SSE	WNW	WNW	E	SW	W	W	WSW	SW	SW	SW	SSW	S	S	SSW	277	W
May 15	SSW	SW	SW	WSW	SW	SW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	WSW	WSW	WSW	252	WSW
May 16	WSW	WSW	SW	SW	SSW	SSE	SSW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	WSW	W	SW	S	S	SSW	SSW	SSW	231	SW
May 17	SSW	SSW	SW	S	SW	SW	WSW	NNW	N	WSW	NE	SW	WSW	NW	NE	E	E	E	E	E	NNE	ENE	NNE	ENE	152	SSE
May 18	NE	NNE	NE	NE	NE	NE	NNE	NE	NE	NE	NE	NE	NE	NE	NNE	NE	NE	NE	N	N	N	N	NNE	NNE	35	NE
May 19	N	N	NW	N	N	N	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	N	NE	ESE	ESE	ESE	SE	SE	33	NNE
May 20	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SE	SE	SSE	SE	SE	ESE	SE	S	SSE	SSE	S	S	SSE	SSE	SSE	150	SSE
May 21	SSE	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SSE	SSE	SSE	152	SSE
May 22	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	SSE	170	SSE
May 23	SSE	SSE	S	S	S	S	S	S	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	W	NNW	NNW	NNW	NW	NE	NNW	242	WSW
May 24	NNE	NNE	N	N	N	N	N	N	NNE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	31	NNE
May 25	NE	ENE	NE	NNE	NNE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	E	ESE	75	ENE
May 26	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SSE	S	SW	SW	SSW	SSW	SE	ESE	SSE	SE	E	ESE	W	WSW	ENE	NE	132	SE
May 27	WSW	WNW	E	SE	S	SW	WSW	W	WNW	NE	SSE	ENE	NE	ENE	ENE	NE	ENE	NE	NNE	N	N	NNW	NW	NW	35	NE
May 28	W	WSW	W	WNW	NW	W	WNW	WNW	NW	NW	NW	W	W	WSW	W	W	NW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	276	W
May 29	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	SW	242	WSW
May 30	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	SW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	SSW	SW	WSW	235	SW
May 31	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	W	WSW	SW	SW	248	WSW

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
pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	19.7	kph	on May 6 at hour 17	Hours in Service:	744
Maximum Daily Value:	13.7	kph	on May 7	Hours of Data:	744
Minimum Hourly Value:	0.3	kph	on May 5 at hour 1	Hours of Missing Data:	0
Minimum Daily Value:	0.3	kph	on May 17	Hours of Calibration:	0
Monthly Average:	1.1	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 155 (SSE) degree

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
May 1	6.8	5.7	4.7	7.2	7.2	5.9	7.5	9.0	9.2	10.6	6.9	8.4	3.1	7.9	8.7	8.2	0.6	1.5	3.7	1.4	1.1	4.7	2.9	2.5	0.6	10.6	4.6
	SW	SW	SW	SW	SW	WSW	WSW	WSW	W	WSW	WNW	NNW	W	W	WSW	NNW	SSE	NNE	NNW	NNW	WSW	WSW	WSW	WNW			
May 2	4.8	3.8	2.9	4.3	4.4	4.6	5.2	7.2	7.7	8.3	8.3	10.1	9.8	8.8	8.5	9.9	9.4	7.8	6.0	2.3	5.6	6.2	7.8	5.6	2.3	10.1	4.9
	NNW	N	N	N	N	N	N	N	NNE	NNE	N	NNW	NNW	N	N	N	N	NNW	NNE	NNE	ESE	ESE	ESE	SE			
May 3	6.2	7.6	6.6	5.9	6.3	5.9	7.2	6.6	7.0	7.2	7.8	8.3	8.5	8.3	7.2	6.2	4.1	6.3	5.8	4.1	7.0	7.2	5.2	5.0	4.1	8.5	6.3
	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SE	ESE	E	ESE	ESE			
May 4	3.9	3.5	3.2	2.7	2.9	3.4	4.8	5.8	5.5	6.9	5.6	8.4	7.4	7.8	6.3	4.5	4.2	8.6	1.4	1.4	2.7	3.9	2.2	0.4	0.4	8.6	2.9
	SE	SSE	SSE	SSE	S	S	SE	SE	SSE	SE	ESE	E	E	ENE	ESE	SSE	SSE	WSW	S	SW	SW	WSW	WSW	SW			
May 5	0.7	**0.3**	1.1	1.1	1.2	2.5	4.3	3.2	2.1	2.4	5.2	5.3	4.5	4.8	3.5	1.1	3.1	1.5	2.5	3.5	1.8	1.5	4.2	4.2	**0.3**	5.3	1.2
	W	S	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	WSW	WSW	WSW	W	W	SW	SW	SW	ESE	ENE	ENE	NE	E	ESE			
May 6	5.4	5.3	5.5	6.9	6.5	6.6	8.2	10.4	11.8	13.4	14.2	16.0	16.4	15.7	17.6	17.0	17.2	**19.7**	16.9	15.4	16.2	17.7	18.3	15.1	5.3	**19.7**	12.9
	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	ESE			
May 7	15.4	18.0	17.6	18.0	17.3	16.8	17.2	16.1	16.3	15.9	15.3	17.0	15.4	13.4	15.1	16.6	12.2	13.6	11.3	11.3	7.6	6.0	6.3	7.2	6.0	18.0	**13.7**
	ESE	E	E	E	ESE	ESE	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	SE	ESE	SE	SE	SE	SE	ESE	SE	SE	SE			
May 8	7.4	8.0	9.8	10.2	7.2	6.7	7.4	6.8	4.6	4.5	3.2	2.4	5.6	6.0	4.3	3.5	3.9	4.3	4.7	6.0	6.4	5.7	5.4	5.1	2.4	10.2	5.5
	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSW	SW	S	SSE	SSE	SE	SSE	S	SSE	SE	SE	SE	SSE	SSE	SSE			
May 9	5.4	6.3	6.2	5.8	4.1	5.0	5.0	6.0	6.3	7.5	7.7	8.2	6.9	7.3	6.6	6.0	6.6	4.6	6.7	4.7	4.3	4.5	4.6	4.7	4.1	8.2	5.6
	SSE	SSE	SSE	S	S	S	S	S	S	S	SSW	SSW	S	SSW	S	SSW	S	S	SSE	SE	SSE	SSE	SSE	SSE			
May 10	4.8	4.3	4.2	4.0	2.8	3.2	5.5	6.1	7.5	7.2	7.6	6.8	5.0	5.0	5.9	5.4	4.3	4.0	7.9	9.5	6.6	1.9	3.9	4.0	1.9	9.5	3.6
	S	S	S	S	SSW	S	SW	SW	SW	WSW	SW	WSW	WSW	W	WSW	W	W	NNW	W	NNW	NNW	NW	W	NW			
May 11	5.1	4.9	6.4	6.0	6.9	6.7	5.7	6.4	4.7	3.3	3.1	3.5	4.7	4.6	4.6	6.4	6.6	5.1	1.7	1.1	0.5	0.8	2.0	3.9	0.5	6.9	3.6
	NNW	NNW	N	N	N	N	N	NNE	NNE	NNW	NNW	NW	NW	NW	NNW	N	NE	NNW	NW	N	E	SE	SE	SSE			
May 12	4.3	4.2	3.4	3.7	3.7	4.6	5.0	6.1	6.2	6.6	6.4	6.6	5.4	6.5	9.4	6.6	6.3	5.3	5.4	4.4	0.9	1.4	1.3	1.6	0.9	9.4	3.8
	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	SSE	SSW	SE	SE	SSW	SW	W	NNW	N	SW	S	SSW			
May 13	0.9	1.1	1.6	2.6	0.8	1.3	3.1	5.8	6.1	5.9	7.7	5.5	5.6	6.1	6.5	5.8	5.1	6.5	6.6	2.6	3.0	3.2	4.5	4.7	0.8	7.7	3.2
	WNW	SE	S	SSW	NW	NNW	NW	N	N	NNW	NNE	NNW	NNW	NNW	NW	NNW	NNW	WSW	WSW	NW	NNW	NNW	NW	NNW			
May 14	4.7	2.4	2.3	2.8	4.2	2.9	1.8	4.6	3.5	0.5	1.6	2.7	3.0	3.7	3.9	5.8	3.2	3.1	4.1	1.8	0.8	2.4	4.6	4.9	0.5	5.8	0.5
	NNE	NNE	N	N	N	NE	NNE	ENE	NE	SSE	WNW	WNW	E	SW	W	W	WSW	SW	SW	SW	SSW	S	S	SSW			
May 15	3.0	3.0	4.2	5.1	5.3	6.7	6.3	9.8	10.2	7.9	9.7	10.0	11.8	10.9	10.8	10.4	11.9	7.6	6.4	6.3	6.3	6.5	7.8	8.1	3.0	11.9	7.6
	SSW	SW	SW	WSW	SW	SW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	WSW	WSW	WSW			
May 16	4.5	3.3	3.4	3.6	1.0	0.6	2.6	5.8	7.5	8.8	9.4	8.3	13.1	11.0	12.0	9.5	8.5	5.8	6.5	8.2	8.4	7.8	6.7	5.9	0.6	13.1	6.3
	WSW	WSW	SW	SW	SSW	SSE	SSW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	WSW	W	SW	S	S	SSW	SSW	SSW			
May 17	4.5	3.6	2.3	1.2	2.1	3.3	3.3	2.2	1.8	1.9	0.6	3.4	2.1	1.1	1.8	2.4	3.4	3.3	6.1	3.5	1.3	0.5	1.5	3.3	0.5	6.1	**0.3**
	SSW	SSW	SW	S	SW	SW	WSW	NNW	N	WSW	NE	SW	WSW	NW	NE	E	E	E	E	E	NNE	ENE	NNE	ENE			
May 18	2.7	3.8	8.0	11.3	8.5	8.5	10.1	14.3	15.5	15.4	14.1	15.0	15.7	15.8	15.3	14.7	13.9	11.9	11.0	11.1	10.5	8.4	7.8	5.8	2.7	15.8	10.8
	NE	NNE	NE	NE	NE	NE	NNE	NE	NE	NE	NE	NE	NE	NE	NNE	NE	NE	NE	N	N	N	N	NNE	NNE			
May 19	5.2	2.1	1.3	4.5	6.0	7.5	7.5	8.5	9.5	9.3	7.0	6.9	6.0	5.2	6.1	4.3	4.1	4.5	4.0	5.6	7.1	5.4	5.3	4.4	1.3	9.5	4.2
	N	N	NW	N	N	N	NNE	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	N	NE	ESE	ESE	ESE	SE	SE			
May 20	3.3	3.6	3.5	3.4	3.9	3.8	3.9	5.0	4.8	3.9	3.7	5.0	4.3	3.5	5.0	4.2	3.7	3.5	3.8	2.1	2.3	2.4	4.2	4.1	2.1	5.0	3.6
	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SE	SE	SSE	SE	SE	ESE	SE	S	SSE	SSE	S	S	SSE	SSE	SSE			

peace river area monitoring program
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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - May 2021

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	19.7	kph	on May 6 at hour 17	Hours in Service:	744
Maximum Daily Value:	13.7	kph	on May 7	Hours of Data:	744
Minimum Hourly Value:	0.3	kph	on May 5 at hour 1	Hours of Missing Data:	0
Minimum Daily Value:	0.3	kph	on May 17	Hours of Calibration:	0
Monthly Average:	1.1	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 155 (SSE) degree

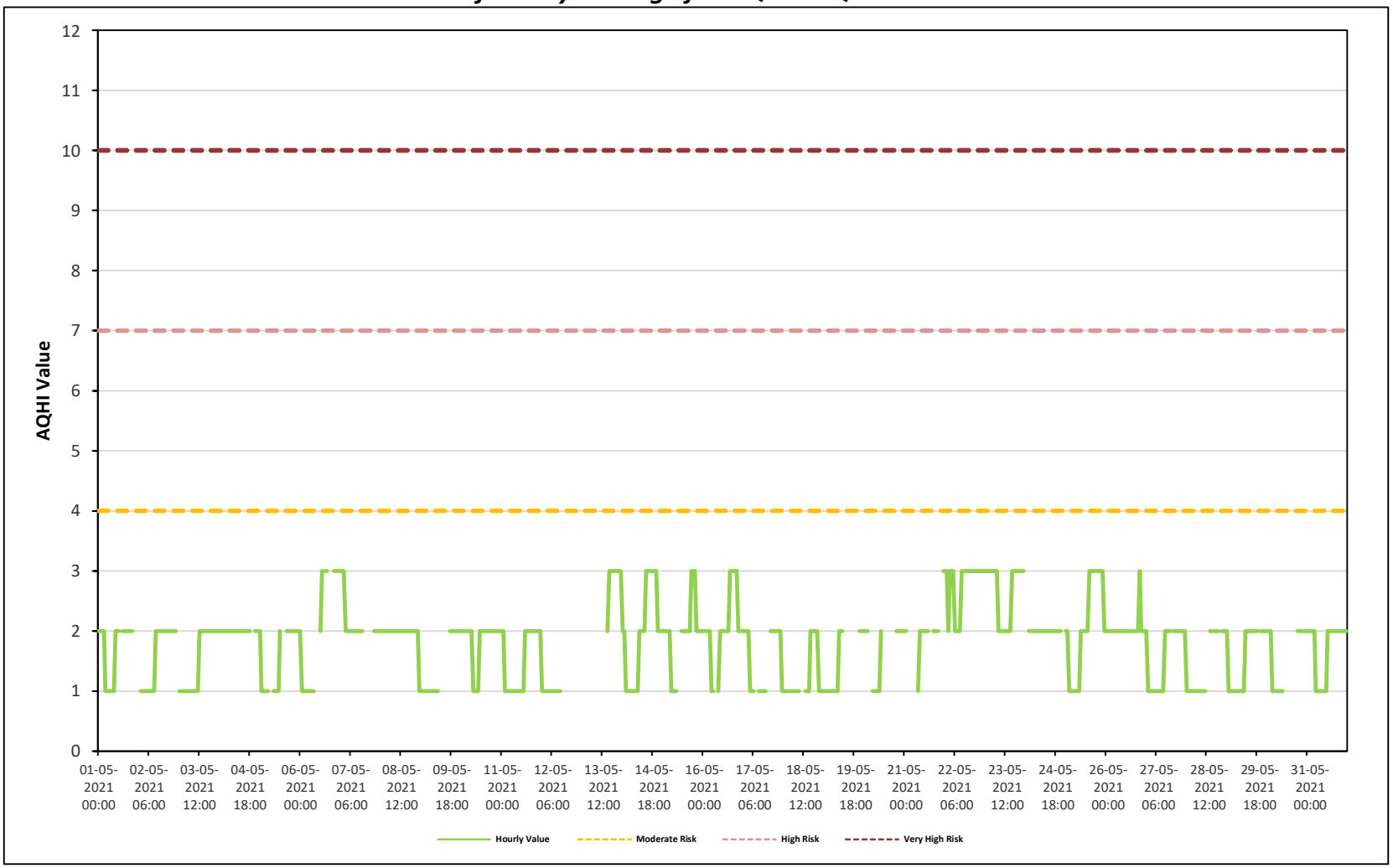
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 21	4.6	3.7	4.3	4.5	4.4	5.3	5.2	4.7	4.8	4.8	4.2	5.8	6.3	5.2	5.8	5.7	6.5	7.4	6.6	5.7	3.9	4.6	4.6	4.1	3.7	7.4	4.9
	SSE	S	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SSE	SSE	SSE			
May 22	4.6	4.6	4.4	4.7	4.9	4.6	5.9	7.3	7.1	7.9	8.3	8.0	7.4	7.2	7.2	8.1	7.2	5.4	4.6	2.5	2.1	3.6	5.0	4.6	2.1	8.3	5.6
	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	S	S	S	SSE	SSE	SSE	SSE			
May 23	4.6	4.3	3.4	3.7	4.0	3.8	3.2	4.2	6.5	7.7	9.2	7.7	7.8	7.6	7.4	6.9	5.6	4.4	4.2	5.5	2.7	3.0	1.1	1.6	1.1	9.2	3.4
	SSE	SSE	S	S	S	S	S	S	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	W	NNW	NNW	NNW	NW	NE	NNW			
May 24	4.5	5.2	8.5	8.9	8.8	8.8	8.5	7.7	11.3	13.7	16.0	17.1	18.4	18.0	15.1	14.4	13.6	13.1	14.4	12.5	10.4	9.5	11.9	16.6	4.5	18.4	11.4
	NNE	NNE	N	N	N	N	N	N	NNE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE			
May 25	13.5	9.1	4.9	5.0	4.8	5.1	9.0	9.5	8.9	8.8	8.2	8.2	8.7	6.7	7.7	9.3	9.1	10.4	10.5	11.4	11.0	11.4	11.6	10.1	4.8	13.5	8.1
	NE	ENE	NE	NNE	NNE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E	E	E	E	E	ESE			
May 26	9.4	8.2	8.9	9.6	8.9	6.7	5.3	6.1	5.3	4.5	5.7	5.4	4.1	2.7	1.9	2.7	2.8	1.3	3.8	5.1	1.8	0.9	4.9	1.9	0.9	9.6	3.6
	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SSE	S	SW	SW	SSW	SSW	SE	ESE	SSE	SE	E	ESE	W	WSW	ENE	NE			
May 27	3.4	1.1	1.4	1.1	0.7	2.7	3.3	2.6	1.8	1.1	1.6	2.9	5.1	4.2	5.2	7.5	4.7	5.8	7.1	5.0	2.5	2.1	1.3	0.8	0.7	7.5	1.5
	WSW	WNW	E	SE	S	SW	WSW	W	WNW	NE	SSE	ENE	NE	ENE	ENE	NE	ENE	NE	NNE	N	N	NNW	NW	NW			
May 28	2.5	4.5	4.2	3.7	4.4	4.8	4.9	5.9	7.8	8.9	7.1	7.3	11.1	11.5	11.1	11.4	7.5	6.9	9.6	9.9	6.0	6.4	2.5	1.2	1.2	11.5	6.1
	W	WSW	W	WNW	NW	W	WNW	WNW	NW	NW	NW	W	W	WSW	W	W	NW	WSW	WSW	WSW	WSW	WSW	WSW	SSW			
May 29	3.4	4.9	6.2	6.5	7.8	9.0	9.7	10.9	11.1	12.2	9.8	11.7	12.1	10.0	9.5	7.8	7.1	6.9	9.5	5.1	2.7	2.4	3.2	1.7	1.7	12.2	7.5
	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	SW			
May 30	1.7	2.5	3.2	3.9	4.2	4.0	3.6	4.7	6.3	5.9	7.3	9.1	8.6	8.4	10.0	10.5	8.9	9.2	9.5	14.7	8.2	2.4	5.4	8.7	1.7	14.7	6.4
	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	SW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	SSW	SW	WSW			
May 31	4.8	5.9	6.9	4.1	4.5	6.6	9.2	9.0	8.1	8.7	9.4	9.1	8.8	9.6	10.3	9.2	9.5	11.2	9.7	5.7	6.4	6.1	3.8	2.9	2.9	11.2	7.4
	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	W	WSW	SW	SW			

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.

AQHI CADOTTE LAKE STATION

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



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

SULPHUR DIOXIDE (SO_2) 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

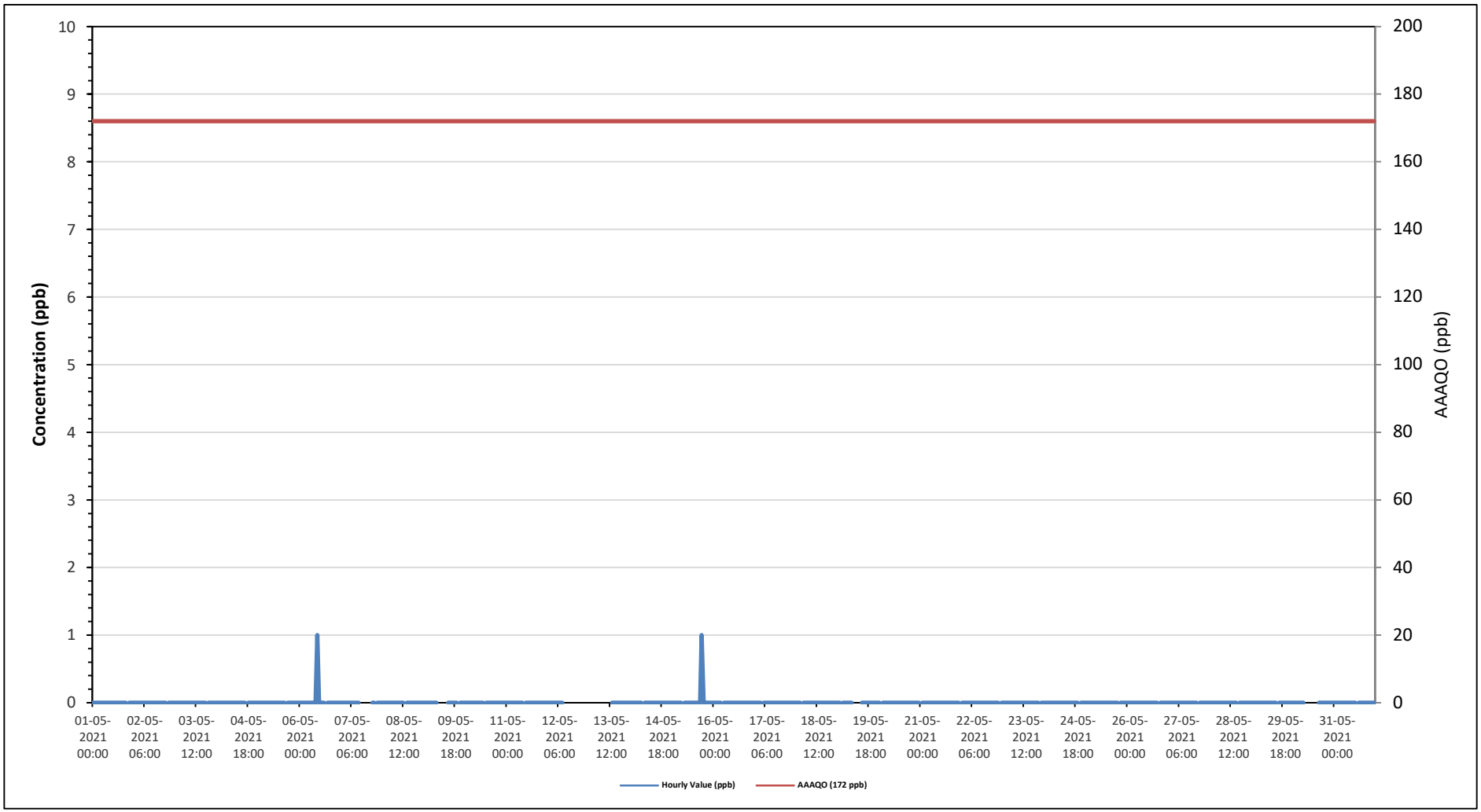
Maximum Hourly Value:	1	ppb	on May 6 at hour 10	Hours in Service:	744
Maximum Daily Value:	0.0	ppb	on May 6	Hours of Data:	661
Minimum Hourly Value:	0	ppb	on May 1 at hour 0	Hours of Missing Data:	47
Minimum Daily Value:	0.0	ppb	on May 1	Hours of Calibration:	36
Monthly Average:	0.0	ppb		Operational Uptime:	93.7

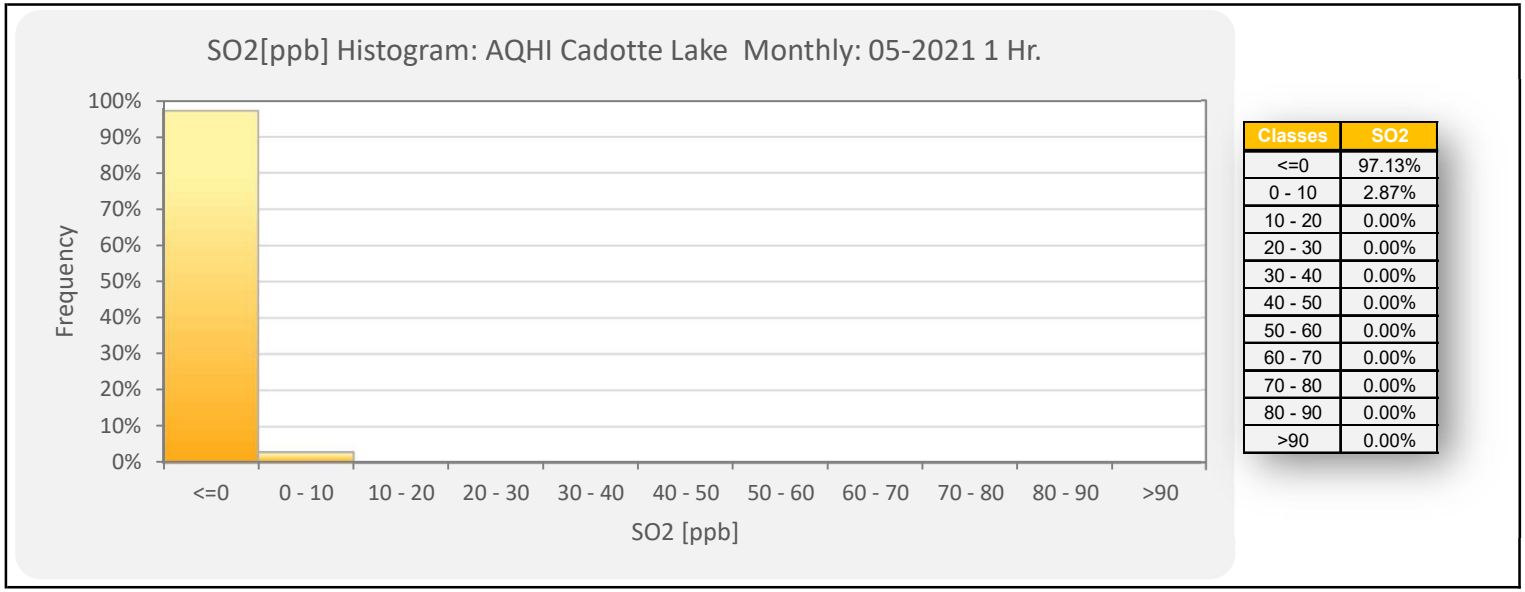
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0.0
May 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
May 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0.0
May 4	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
May 5	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
May 6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.0
May 7	0	0	0	0	0	0	0	0	0	0	0	P	P	P	P	P	P	X	0	0	S	0	0	0	0	0	-
May 8	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
May 9	0	0	0	0	0	0	0	0	P	P	P	P	P	P	0	0	0	0	0	0	S	0	0	0	0	0	-
May 10	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
May 11	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
May 12	0	0	0	0	0	0	0	0	0	S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	0	-
May 13	P	P	P	P	P	P	P	P	P	P	P	X	S	0	0	0	0	0	0	0	0	0	0	0	0	0	-
May 14	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
May 15	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0.0
May 16	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
May 17	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
May 18	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
May 19	0	0	S	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 20	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
May 21	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	0.0
May 22	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
May 23	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
May 24	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
May 25	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
May 26	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
May 27	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
May 28	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
May 29	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
May 30	0	0	0	0	0	0	0	P	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	0	0	0	-
May 31	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	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	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			

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

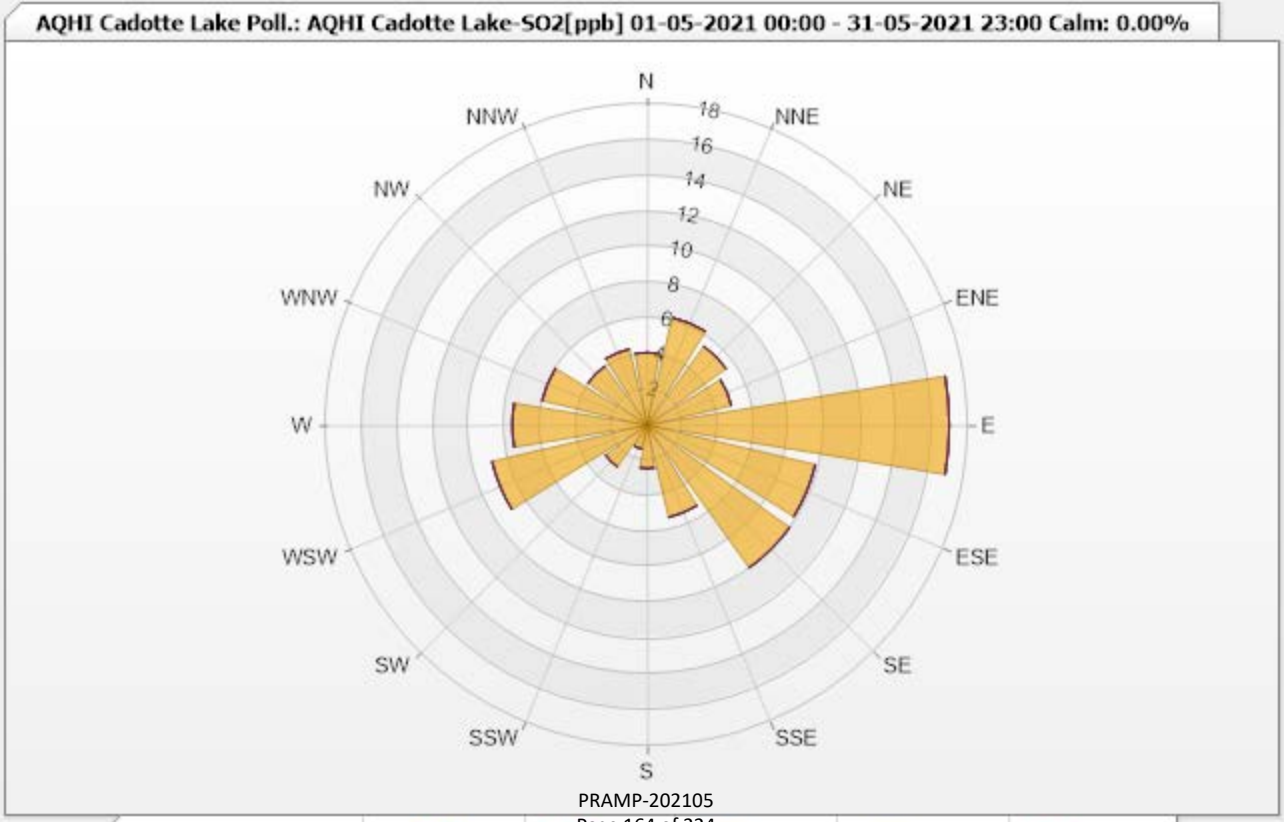




Classes	SO2
<=0	97.13%
0 - 10	2.87%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-SO2[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.84% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	4.08	0	0	0	0	4.08
NNE	6.2	0	0	0	0	6.2
NE	5.45	0	0	0	0	5.45
ENE	4.84	0	0	0	0	4.84
E	16.94	0	0	0	0	16.94
ESE	9.68	0	0	0	0	9.68
SE	9.83	0	0	0	0	9.83
SSE	5.3	0	0	0	0	5.3
S	2.42	0	0	0	0	2.42
SSW	1.36	0	0	0	0	1.36
SW	2.87	0	0	0	0	2.87
WSW	8.93	0	0	0	0	8.93
W	7.56	0	0	0	0	7.56
WNW	6.05	0	0	0	0	6.05
NW	4.08	0	0	0	0	4.08
NNW	4.39	0	0	0	0	4.39
Summary	100	0	0	0	0	100


AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-SO2[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
2
% Icon Classes (ppb)
100 0-10
0 10-50
0 50-100
0 100-172
0 >172.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

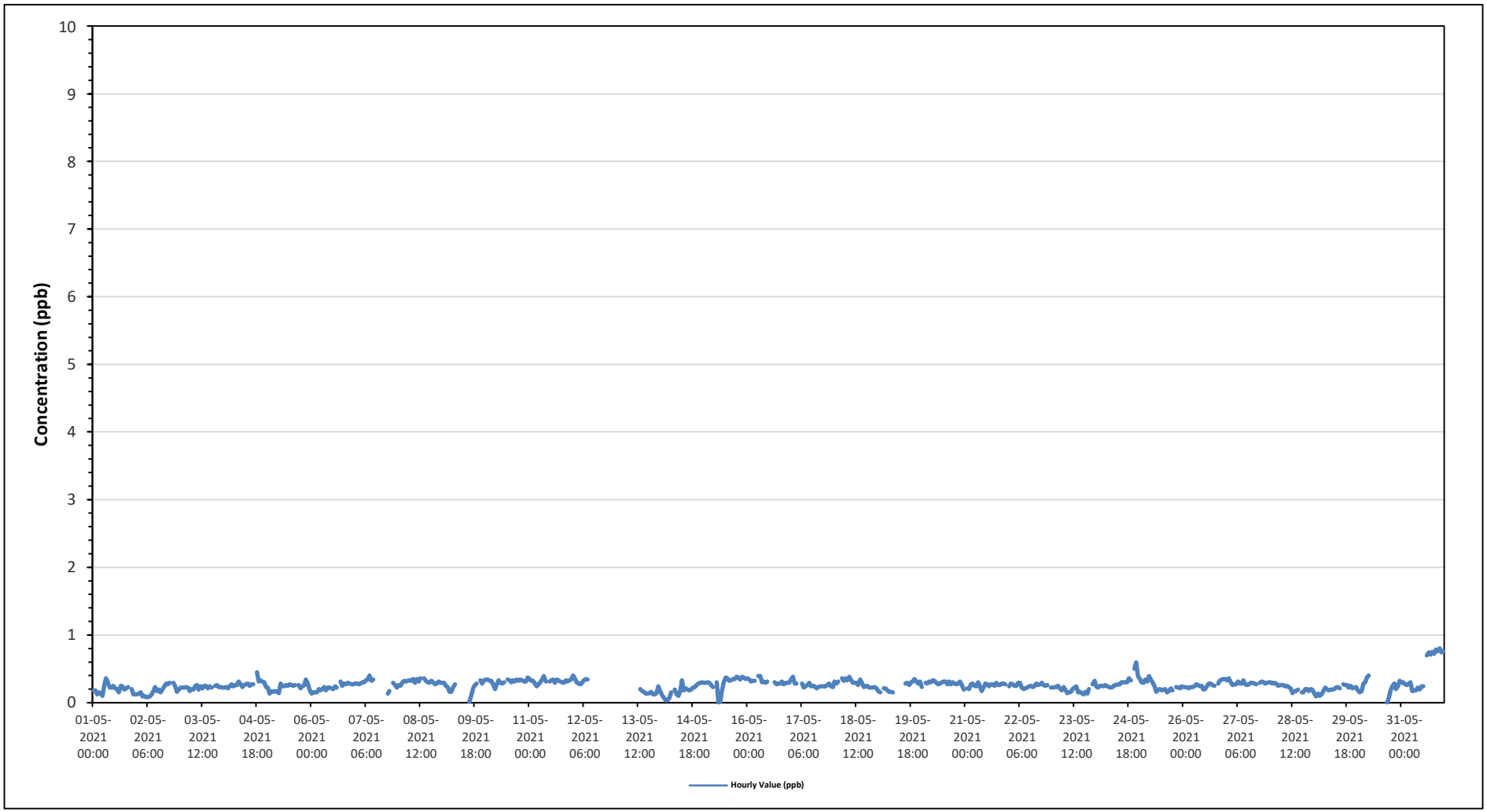
Maximum Hourly Value:	0.80	ppb	on May 31 at hour 21	Hours in Service:	744
Maximum Daily Value:	0.46	ppb	on May 31	Hours of Data:	654
Minimum Hourly Value:	0.00	ppb	on May 15 at hour 8	Hours of Missing Data:	53
Minimum Daily Value:	0.17	ppb	on May 2	Hours of Calibration:	37
Monthly Average:	0.26	ppb		Operational Uptime:	92.9

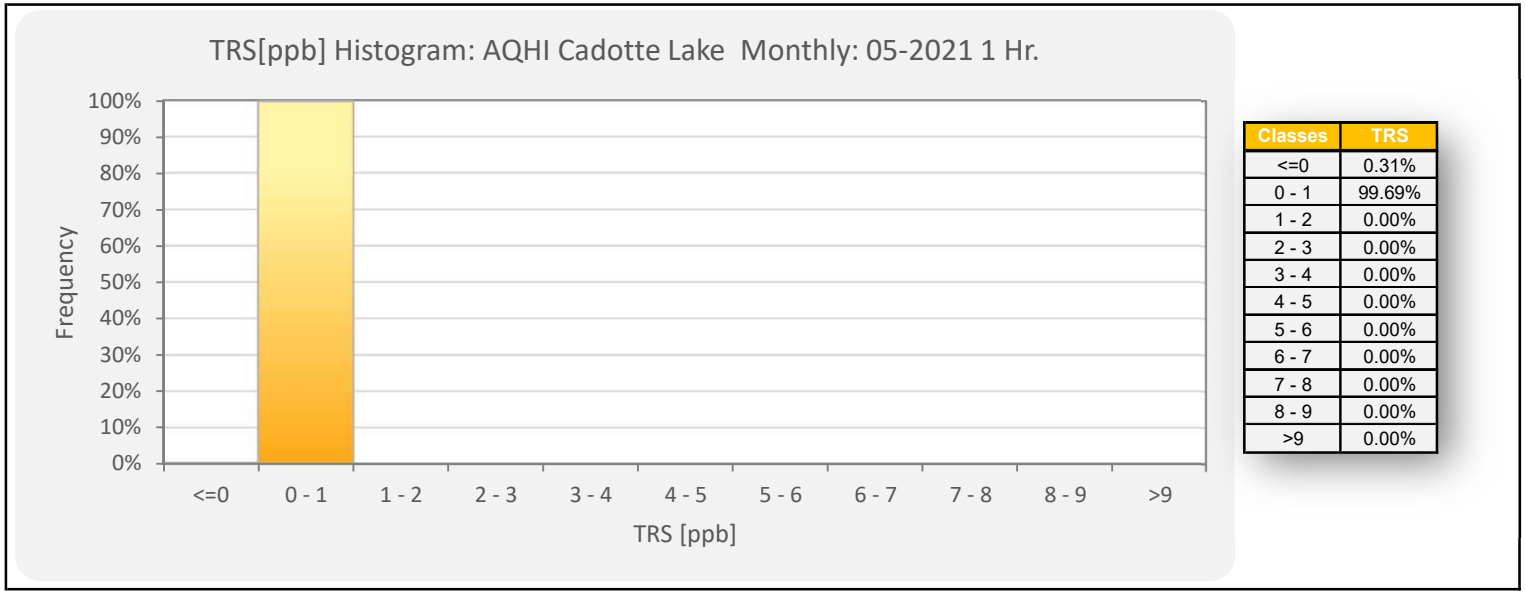
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	0.18	0.18	0.12	0.15	0.13	0.1	0.27	0.36	0.29	0.22	0.22	0.25	0.21	0.2	0.15	0.25	0.24	0.19	0.21	0.23	S	0.2	0.12	0.12	0.10	0.36	0.20
May 2	0.12	0.13	0.15	0.09	0.1	0.08	0.08	0.09	0.12	0.17	0.23	0.17	0.19	0.15	0.19	0.24	0.28	0.27	0.29	S	0.29	0.24	0.16	0.19	0.08	0.29	0.17
May 3	0.22	0.22	0.22	0.23	0.22	0.17	0.2	0.19	0.25	0.26	0.19	0.24	0.21	0.25	0.25	0.21	0.24	0.22	S	0.25	0.26	0.23	0.23	0.22	0.17	0.26	0.23
May 4	0.22	0.23	0.21	0.24	0.27	0.24	0.26	0.26	0.31	0.27	0.23	0.26	0.27	0.28	0.25	0.27	0.27	S	0.45	0.31	0.33	0.31	0.3	0.23	0.21	0.45	0.27
May 5	0.22	0.13	0.17	0.16	0.17	0.16	0.14	0.28	0.25	0.24	0.26	0.25	0.27	0.26	0.25	0.26	S	0.26	0.21	0.24	0.26	0.34	0.28	0.19	0.13	0.34	0.23
May 6	0.13	0.15	0.15	0.15	0.2	0.18	0.2	0.23	0.18	0.22	0.22	0.21	0.2	0.24	0.22	S	0.31	0.25	0.28	0.27	0.29	0.28	0.27	0.27	0.13	0.31	0.22
May 7	0.28	0.28	0.27	0.28	0.3	0.3	0.33	0.34	0.4	0.32	0.34	P	P	P	P	P	P	X	0.13	0.17	S	0.29	0.26	0.22	0.13	0.40	-
May 8	0.26	0.25	0.3	0.32	0.31	0.32	0.33	0.32	0.35	0.29	0.35	0.31	0.36	S	0.36	0.32	0.3	0.29	0.32	0.3	0.27	0.28	0.31	0.29	0.25	0.36	0.31
May 9	0.29	0.29	0.25	0.23	0.16	0.16	0.22	0.27	P	P	P	P	P	P	X	0.01	0.11	0.21	0.26	0.28	S	0.33	0.28	0.33	0.01	0.33	-
May 10	0.34	0.34	0.32	0.32	0.27	0.2	0.27	0.33	0.29	0.28	0.3	S	0.34	0.33	0.3	0.33	0.31	0.34	0.32	0.34	0.33	0.31	0.31	0.37	0.20	0.37	0.31
May 11	0.35	0.32	0.32	0.28	0.24	0.27	0.3	0.35	0.39	0.31	S	0.31	0.33	0.34	0.29	0.34	0.33	0.31	0.3	0.29	0.33	0.31	0.33	0.34	0.24	0.39	0.32
May 12	0.4	0.36	0.3	0.28	0.27	0.29	0.33	0.35	0.34	S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0.27	0.40	-
May 13	P	P	P	P	P	P	P	P	P	P	P	X	S	0.2	0.17	0.16	0.13	0.13	0.14	0.16	0.12	0.12	0.14	0.24	0.12	0.24	-
May 14	0.17	0.11	0.07	0.03	0.03	0.07	0.15	S	0.19	0.12	0.1	0.17	0.33	0.18	0.21	0.19	0.18	0.19	0.22	0.23	0.26	0.28	0.29	0.3	0.03	0.33	0.18
May 15	0.29	0.29	0.3	0.29	0.26	0.23	S	0.3	0	0.01	0.18	0.3	0.37	0.36	0.32	0.33	0.35	0.35	0.38	0.37	0.34	0.38	0.37	0.35	**0.00**	0.38	0.29
May 16	0.36	0.34	0.31	0.32	0.32	S	0.39	0.39	0.3	0.31	0.29	0.31	X	X	X	0.3	0.27	0.28	0.28	0.31	0.27	0.29	0.29	0.29	0.27	0.39	0.31
May 17	0.34	0.38	0.28	0.28	S	X	0.28	0.22	0.24	0.26	0.29	0.24	0.25	0.24	0.21	0.23	0.24	0.24	0.24	0.24	0.26	0.28	0.24	0.23	0.21	0.38	0.26
May 18	0.31	0.28	0.31	S	0.36	0.32	0.36	0.33	0.38	0.34	0.29	0.29	0.29	0.26	0.34	0.29	0.23	0.24	0.25	0.22	0.22	0.22	0.23	0.21	0.21	0.38	0.29
May 19	0.17	0.15	S	0.21	0.21	0.18	0.16	0.16	0.15	C	C	C	C	C	C	0.28	0.29	0.26	0.3	0.31	0.35	0.31	0.28	0.31	0.15	0.35	-
May 20	0.23	S	0.29	0.28	0.31	0.3	0.33	0.32	0.29	0.27	0.28	0.3	0.31	0.31	0.27	0.31	0.27	0.3	0.28	0.27	0.28	0.31	0.26	0.19	0.19	0.33	0.29
May 21	S	0.21	0.2	0.27	0.28	0.25	0.24	0.3	0.23	0.17	0.23	0.28	0.27	0.24	0.27	0.27	0.25	0.29	0.26	0.26	0.28	0.28	0.27	S	0.17	0.30	0.25
May 22	0.24	0.28	0.27	0.25	0.25	0.29	0.29	0.22	0.2	0.21	0.22	0.24	0.25	0.23	0.24	0.28	0.26	0.27	0.29	0.26	0.25	0.26	S	0.22	0.20	0.29	0.25
May 23	0.22	0.23	0.23	0.25	0.21	0.18	0.23	0.19	0.14	0.15	0.16	0.2	0.22	0.24	0.15	0.16	0.14	0.12	0.16	0.13	0.2	S	0.27	0.32	0.12	0.32	0.20
May 24	0.24	0.22	0.25	0.25	0.24	0.26	0.24	0.23	0.22	0.23	0.26	0.26	0.27	0.27	0.3	0.3	0.3	0.3	0.36	0.33	S	0.5	0.59	0.39	0.22	0.59	0.30
May 25	0.35	0.3	0.29	0.34	0.31	0.39	0.34	0.3	0.24	0.16	0.19	0.2	0.18	0.19	0.2	0.15	0.17	0.21	0.18	S	0.23	0.22	0.21	0.24	0.15	0.39	0.24
May 26	0.23	0.23	0.22	0.21	0.23	0.23	0.24	0.27	0.26	0.24	0.25	0.19	0.2	0.25	0.28	0.28	0.26	0.25	S	0.28	0.32	0.34	0.35	0.35	0.19	0.35	0.26
May 27	0.33	0.36	0.3	0.26	0.27	0.27	0.31	0.28	0.28	0.33	0.27	0.26	0.27	0.29	0.29	0.28	0.27	S	0.29	0.31	0.3	0.28	0.29	0.3	0.26	0.36	0.29
May 28	0.3	0.28	0.29	0.28	0.25	0.26	0.26	0.26	0.24	0.25	0.23	0.21	0.14	0.17	0.17	0.19	S	0.15	0.15	0.2	0.2	0.17	0.2	0.19	0.14	0.30	0.22
May 29	0.13	0.09	0.13	0.1	0.12	0.17	0.22	0.2	0.18	0.19	0.19	0.2	0.22	0.23	0.21	S	0.27	0.26	0.26	0.22	0.25	0.21	0.22	0.23	0.09	0.27	0.20
May 30	0.18	0.15	0.17	0.28	0.3	0.37	0.4	P	P	P	P	P	P	P	P	X	0	0.07	0.18	0.24	0.28	0.2	0.24	0.32	**0.00**	0.40	-
May 31	0.29	0.3	0.27	0.26	0.28	0.3	0.17	0.18	0.18	0.22	0.19	0.24	0.24	S	0.7	0.74	0.71	0.75	0.72	0.78	0.76	**0.8**	0.74	0.76	0.17	**0.80**	**0.46**
Diurnal Maximum	0.40	0.38	0.32	0.34	0.36	0.39	0.40	0.39	0.40	0.34	0.35	0.31	0.37	0.36	0.70	0.74	0.71	0.75	0.72	0.78	0.76	0.80	0.74	0.76			
Diurnal Average	0.25	0.24	0.24	0.24	0.24	0.23	0.26	0.27	0.25	0.23	0.24	0.25	0.26	0.25	0.26	0.27	0.26	0.26	0.28	0.28	0.29	0.30	0.29	0.28			

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

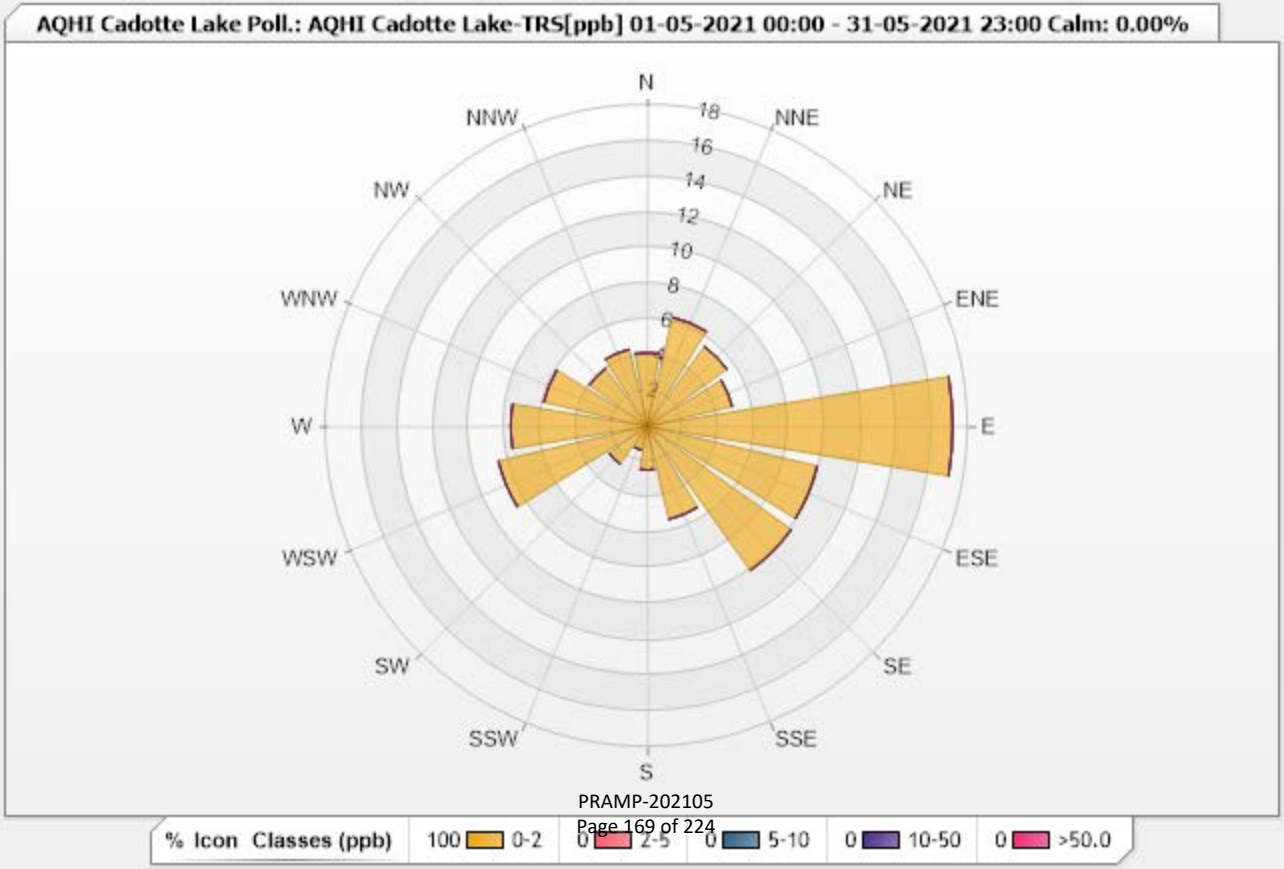




Classes	TRS
<=0	0.31%
0 - 1	99.69%
1 - 2	0.00%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-TRS[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 87.90% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	4.13	0	0	0	0	4.13
NNE	6.27	0	0	0	0	6.27
NE	5.5	0	0	0	0	5.5
ENE	4.89	0	0	0	0	4.89
E	17.13	0	0	0	0	17.13
ESE	9.79	0	0	0	0	9.79
SE	9.94	0	0	0	0	9.94
SSE	5.35	0	0	0	0	5.35
S	2.45	0	0	0	0	2.45
SSW	1.38	0	0	0	0	1.38
SW	2.6	0	0	0	0	2.6
WSW	8.56	0	0	0	0	8.56
W	7.65	0	0	0	0	7.65
WNW	5.96	0	0	0	0	5.96
NW	3.98	0	0	0	0	3.98
NNW	4.43	0	0	0	0	4.43
Summary	100	0	0	0	0	100


AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-TRS[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
2
% Icon Classes (ppb)
100 0-2
0 2-5
0 5-10
0 10-50
0 >50.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

OXIDES OF NITROGEN (NOx) in ppb

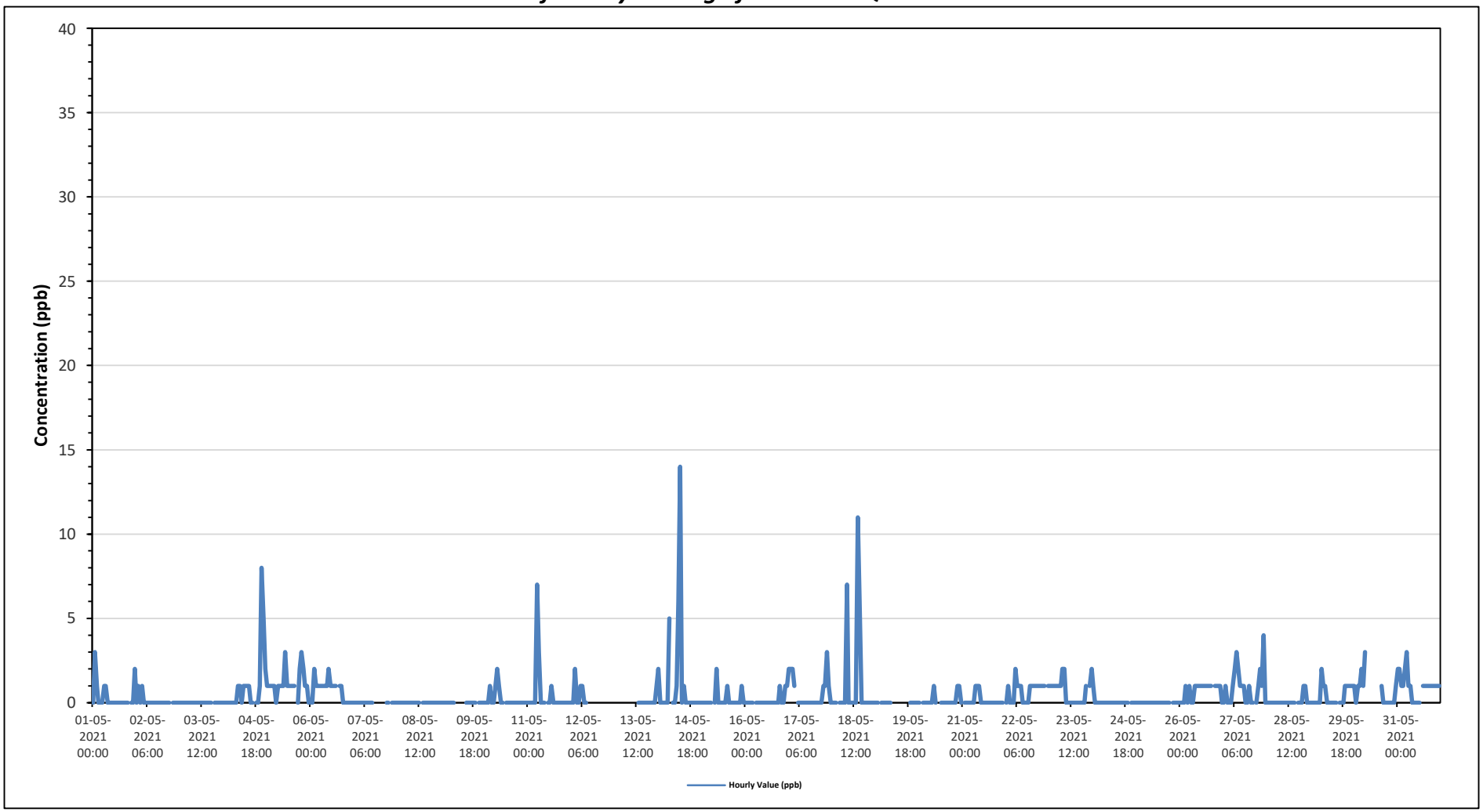
Maximum Hourly Value:	14	ppb	on May 14 at hour 12	Hours in Service:	744
Maximum Daily Value:	1.3	ppb	on May 14	Hours of Data:	654
Minimum Hourly Value:	0	ppb	on May 1 at hour 0	Hours of Missing Data:	49
Minimum Daily Value:	0.0	ppb	on May 3	Hours of Calibration:	41
Monthly Average:	0.4	ppb		Operational Uptime:	93.4

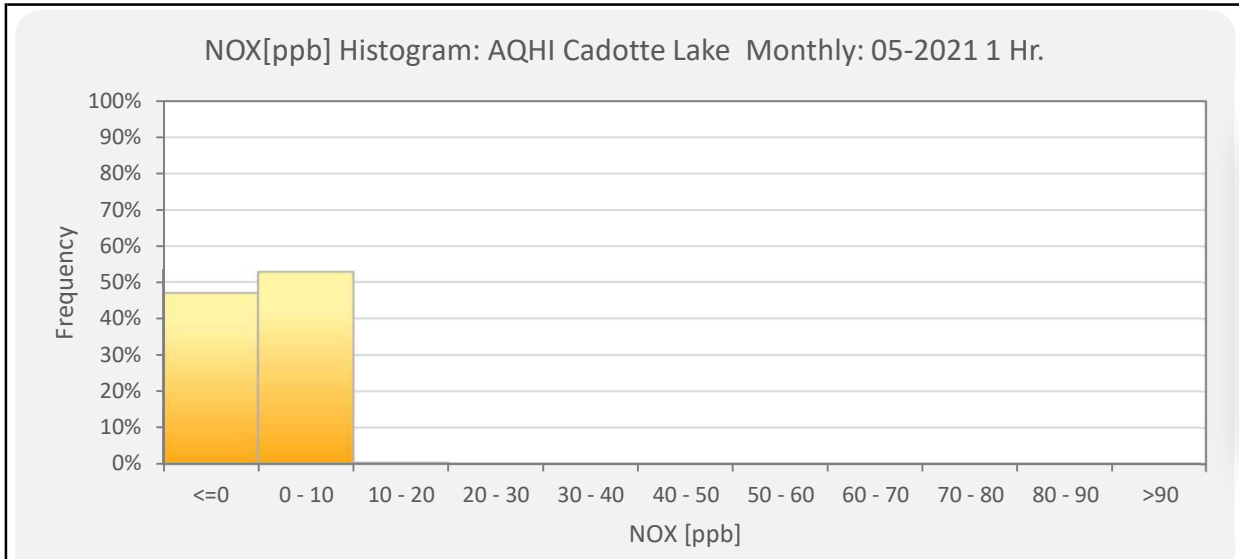
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0	3	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	2	0	3	0.3
May 2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	1	0.1
May 3	0	0	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
May 4	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	0	0	S	0	0	1	8	5	2	0	8	1.0
May 5	1	1	1	1	1	0	1	1	1	1	3	1	1	1	1	1	S	0	2	3	2	1	1	0	0	3	1.1
May 6	0	0	2	1	1	1	1	1	1	1	2	1	1	1	1	S	1	1	0	0	0	0	0	0	0	2	0.7
May 7	0	0	0	0	0	0	0	0	0	0	0	P	P	P	P	P	P	X	0	0	S	0	0	0	0	0	-
May 8	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
May 9	0	0	0	0	0	0	0	0	P	P	P	P	P	P	0	0	0	0	0	0	S	0	0	0	0	0	-
May 10	0	0	0	1	0	0	1	2	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.2
May 11	0	0	0	0	0	7	3	0	0	0	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7	0.5
May 12	0	0	2	0	0	1	1	0	0	S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	2	-
May 13	P	P	P	P	P	P	P	P	P	P	P	X	S	0	0	0	0	0	0	0	0	0	0	1	0	1	-
May 14	2	0	0	0	0	0	5	S	0	0	1	6	14	0	1	0	0	0	0	0	0	0	0	0	0	14	1.3
May 15	0	0	0	0	0	0	S	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2	0.2
May 16	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0.1
May 17	2	2	2	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	1	0	0	3	0.6
May 18	0	0	0	S	0	0	0	0	7	0	0	0	0	0	11	6	0	0	0	0	0	0	0	0	0	11	1.0
May 19	0	0	S	0	0	0	0	0	0	C	C	C	C	C	C	C	C	C	C	0	0	0	0	0	0	0	-
May 20	0	S	0	0	0	0	0	0	1	0	Y	Y	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0.1
May 21	S	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	0.1
May 22	0	1	0	0	0	2	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	S	1	0	2	0.7
May 23	1	1	1	1	1	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	1	S	1	2	0	2	0.7
May 24	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	1	0.0
May 25	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
May 26	0	0	0	1	0	1	0	0	1	1	1	1	1	1	1	1	1	1	S	1	1	1	1	0	0	1	0.7
May 27	0	1	0	0	0	1	2	3	2	1	1	1	0	0	1	0	0	S	0	1	2	1	4	0	0	4	0.9
May 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	1	1	0	0	0	1	0.1
May 29	0	0	0	0	0	0	2	1	1	0	0	0	0	0	0	S	0	0	0	1	1	1	1	1	0	2	0.4
May 30	1	0	1	1	2	1	3	P	P	P	P	P	P	P	P	1	0	0	0	0	0	0	0	1	0	3	-
May 31	2	2	1	1	2	3	1	1	0	0	0	0	0	S	1	1	1	1	1	1	1	1	1	1	0	3	1.0
Diurnal Maximum	2	3	2	1	2	7	5	3	7	1	3	6	14	1	11	6	1	1	2	3	2	8	5	2			
Diurnal Average	0.3	0.4	0.4	0.3	0.2	0.6	0.8	0.5	0.8	0.2	0.3	0.5	0.7	0.3	0.7	0.4	0.2	0.2	0.1	0.4	0.5	0.7	0.6	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	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

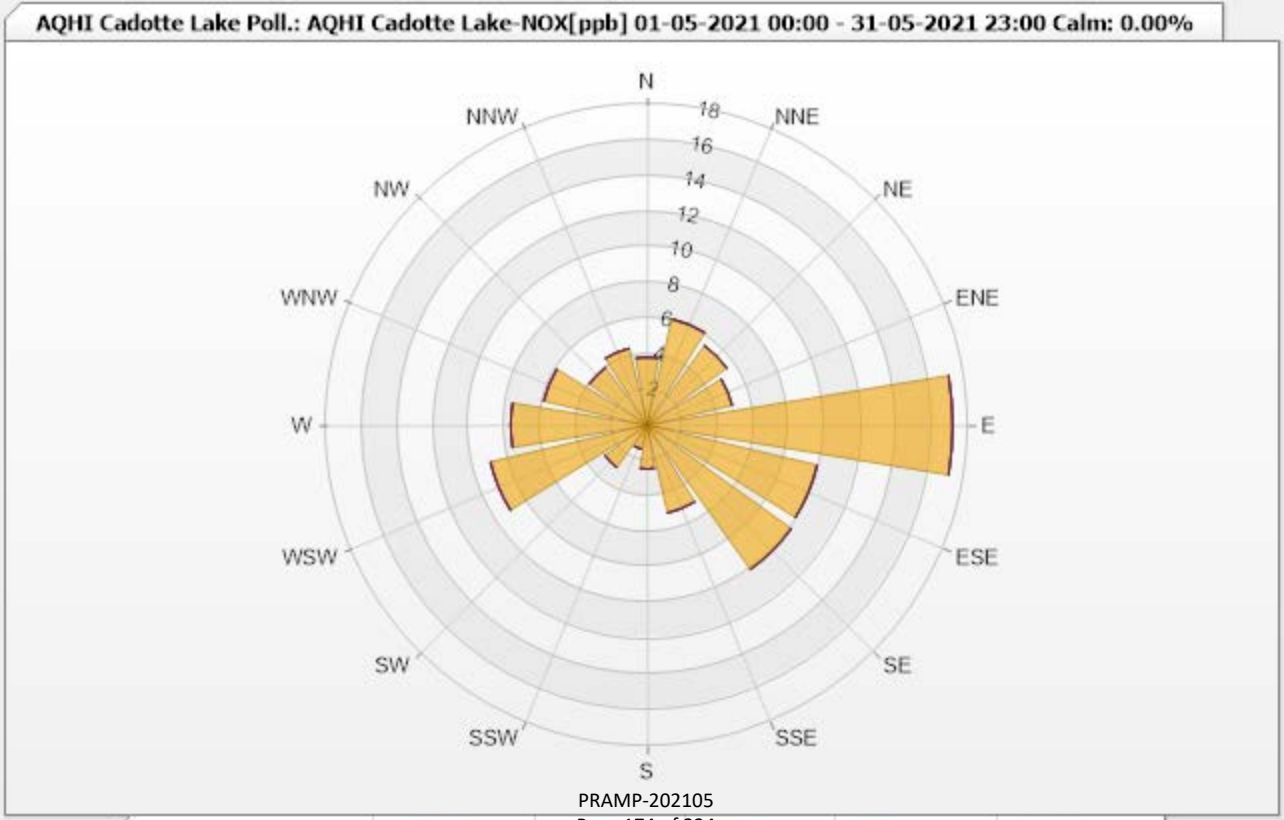




Classes	NOX
<=0	46.94%
0 - 10	52.75%
10 - 20	0.31%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NOX[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 87.90% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	3.82	0	0	0	0	3.82
NNE	6.12	0	0	0	0	6.12
NE	5.5	0	0	0	0	5.5
ENE	4.89	0	0	0	0	4.89
E	17.13	0	0	0	0	17.13
ESE	9.79	0	0	0	0	9.79
SE	9.94	0	0	0	0	9.94
SSE	5.05	0	0	0	0	5.05
S	2.45	0	0	0	0	2.45
SSW	1.38	0	0	0	0	1.38
SW	2.91	0	0	0	0	2.91
WSW	9.02	0	0	0	0	9.02
W	7.65	0	0	0	0	7.65
WNW	5.96	0	0	0	0	5.96
NW	3.98	0	0	0	0	3.98
NNW	4.43	0	0	0	0	4.43
Summary	100	0	0	0	0	100


AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NOX[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
2
% Icon Classes (ppb)
100 0-30
0 30-50
0 50-76
0 76-159
0 >159.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

NITRIC OXIDE (NO) in ppb

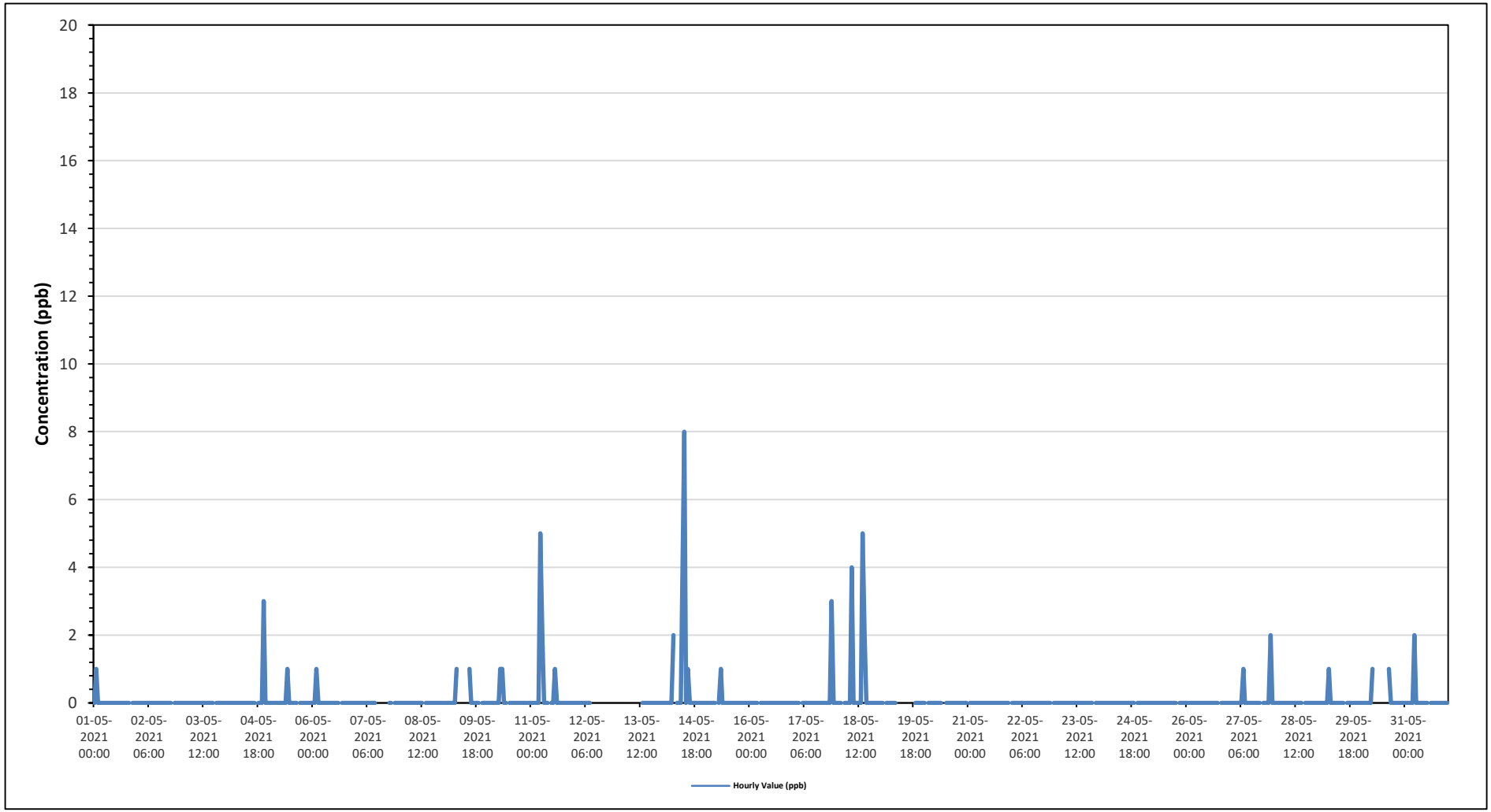
Maximum Hourly Value:	8	ppb	on May 14 at hour 12	Hours in Service:	744
Maximum Daily Value:	0.7	ppb	on May 14	Hours of Data:	654
Minimum Hourly Value:	0	ppb	on May 1 at hour 0	Hours of Missing Data:	49
Minimum Daily Value:	0.0	ppb	on May 2	Hours of Calibration:	41
Monthly Average:	0.1	ppb		Operational Uptime:	93.4

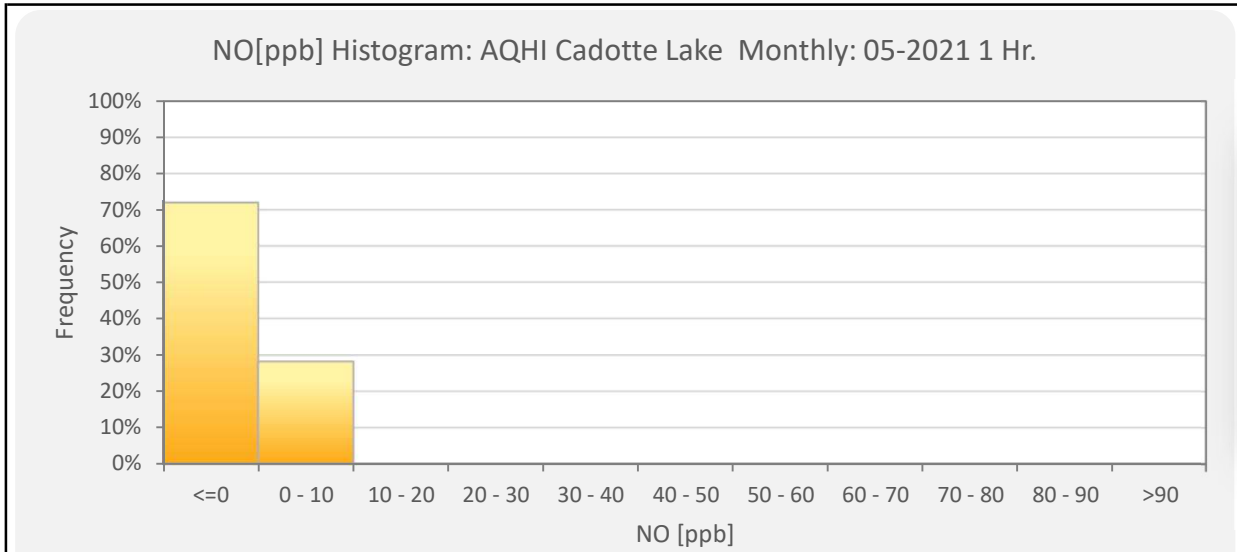
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0.0
May 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
May 3	0	0	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
May 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	3	0	0	0	3	0.1
May 5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	1	0.0
May 6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.0
May 7	0	0	0	0	0	0	0	0	0	0	0	P	P	P	P	P	P	X	0	0	S	0	0	0	0	0	-
May 8	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
May 9	0	0	0	0	0	0	0	1	P	P	P	P	P	P	1	0	0	0	0	0	S	0	0	0	0	1	-
May 10	0	0	0	0	0	0	0	1	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
May 11	0	0	0	0	0	5	2	0	0	0	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5	0.3
May 12	0	0	0	0	0	0	0	0	0	S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	0	-
May 13	P	P	P	P	P	P	P	P	P	P	P	X	S	0	0	0	0	0	0	0	0	0	0	0	0	0	-
May 14	0	0	0	0	0	0	2	S	0	0	0	4	8	0	1	0	0	0	0	0	0	0	0	0	0	**8**	**0.7**
May 15	0	0	0	0	0	0	S	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
May 16	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
May 17	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0.1
May 18	0	0	0	S	0	0	0	0	4	0	0	0	0	0	5	2	0	0	0	0	0	0	0	0	0	5	0.5
May 19	0	0	S	0	0	0	0	0	0	C	C	C	C	C	C	C	C	C	C	0	0	0	0	0	0	0	-
May 20	0	S	0	0	0	0	0	0	0	0	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
May 21	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	0.0
May 22	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
May 23	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
May 24	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
May 25	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
May 26	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
May 27	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	2	0	0	2	0.1
May 28	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
May 29	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.0
May 30	0	0	0	0	0	0	1	P	P	P	P	P	P	P	P	1	0	0	0	0	0	0	0	0	0	1	-
May 31	0	0	0	0	0	2	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	2	0.1
Diurnal Maximum	0	1	1	0	0	5	2	1	4	0	1	4	8	1	5	2	0	0	0	0	0	3	2	0			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.2	0.0	0.0	0.2	0.3	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.2	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

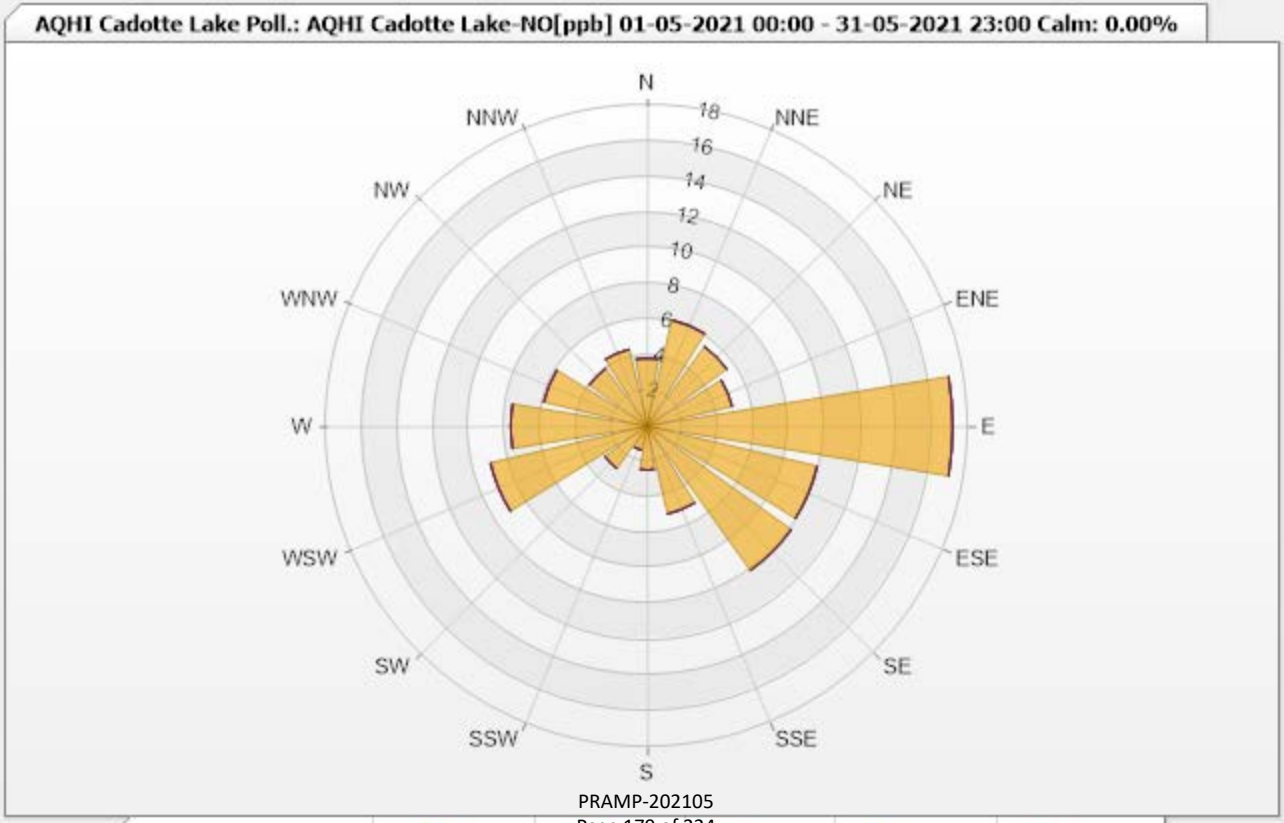




Classes	NO
<=0	71.87%
0 - 10	28.13%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NO[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 87.90% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	3.82	0	0	0	0	3.82
NNE	6.12	0	0	0	0	6.12
NE	5.5	0	0	0	0	5.5
ENE	4.89	0	0	0	0	4.89
E	17.13	0	0	0	0	17.13
ESE	9.79	0	0	0	0	9.79
SE	9.94	0	0	0	0	9.94
SSE	5.05	0	0	0	0	5.05
S	2.45	0	0	0	0	2.45
SSW	1.38	0	0	0	0	1.38
SW	2.91	0	0	0	0	2.91
WSW	9.02	0	0	0	0	9.02
W	7.65	0	0	0	0	7.65
WNW	5.96	0	0	0	0	5.96
NW	3.98	0	0	0	0	3.98
NNW	4.43	0	0	0	0	4.43
Summary	100	0	0	0	0	100


AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NO[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
2
% Icon Classes (ppb)
100 0-30
0 30-50
0 50-76
0 76-159
0 >159.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

NITROGEN DIOXIDE (NO_2) in ppb

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

Number of 1-Hour Exceedances: 0

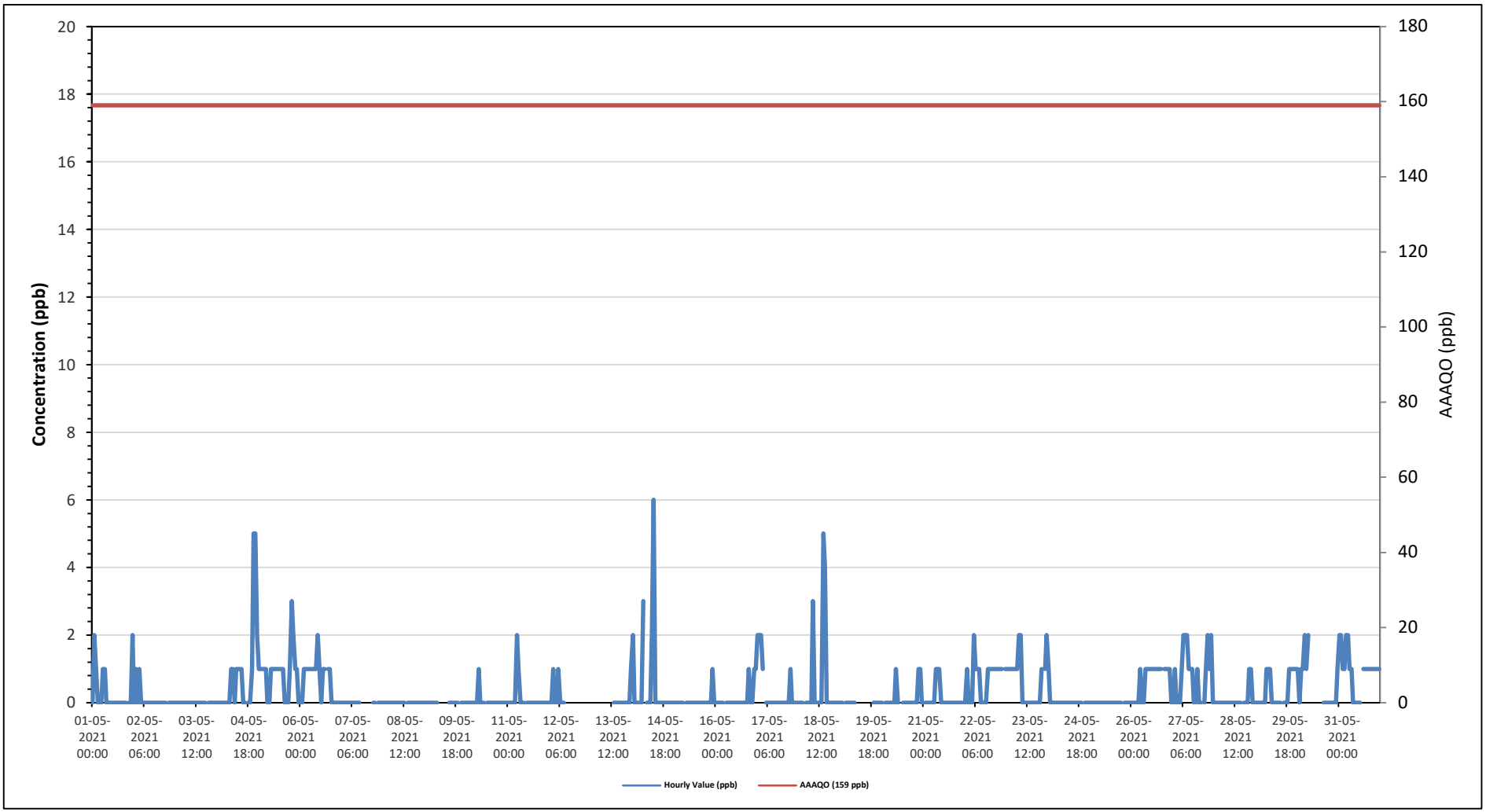
Maximum Hourly Value:	6	ppb	on May 14 at hour 12	Hours in Service:	744
Maximum Daily Value:	1.0	ppb	on May 31	Hours of Data:	654
Minimum Hourly Value:	0	ppb	on May 1 at hour 0	Hours of Missing Data:	49
Minimum Daily Value:	0.0	ppb	on May 3	Hours of Calibration:	41
Monthly Average:	0.3	ppb		Operational Uptime:	93.4

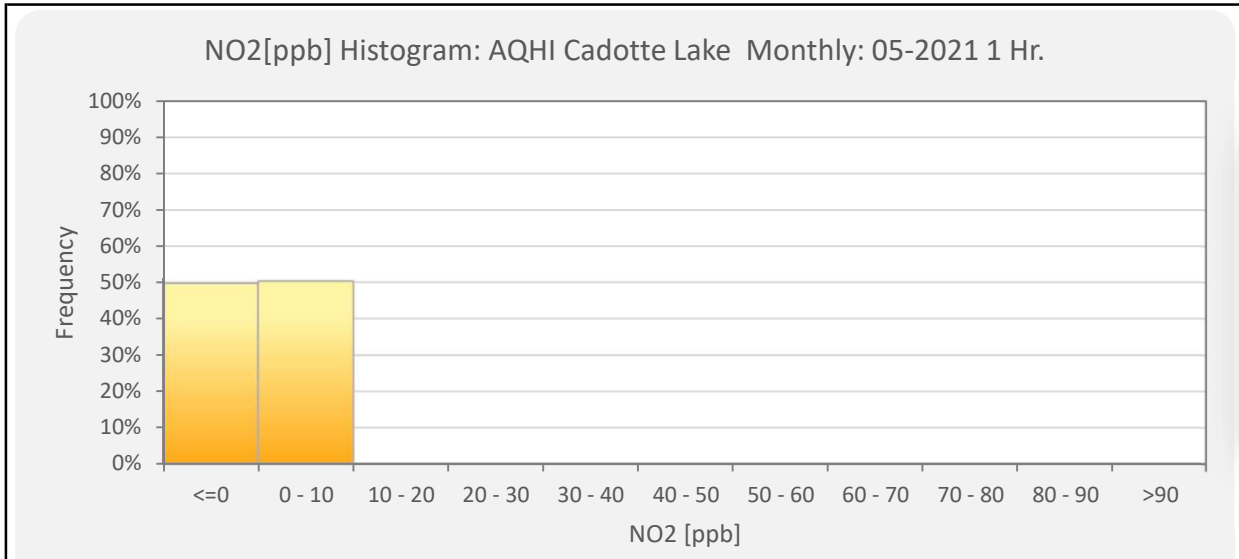
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0	2	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	2	0	2	0.3
May 2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	1	0.1
May 3	0	0	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
May 4	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	0	0	S	0	0	1	5	5	2	0	5	0.8
May 5	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	S	0	1	3	2	1	1	0	0	3	0.9
May 6	0	0	1	1	1	1	1	1	1	1	2	1	0	1	1	S	1	1	0	0	0	0	0	0	0	2	0.7
May 7	0	0	0	0	0	0	0	0	0	0	0	P	P	P	P	P	P	X	0	0	S	0	0	0	0	0	-
May 8	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
May 9	0	0	0	0	0	0	0	0	P	P	P	P	P	P	0	0	0	0	0	0	S	0	0	0	0	0	-
May 10	0	0	0	0	0	0	0	1	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
May 11	0	0	0	0	0	2	1	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.1
May 12	0	0	1	0	0	1	0	0	0	S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	1	-
May 13	P	P	P	P	P	P	P	P	P	P	P	X	S	0	0	0	0	0	0	0	0	0	0	1	0	1	-
May 14	2	0	0	0	0	0	3	S	0	0	0	2	6	0	0	0	0	0	0	0	0	0	0	0	0	6	0.6
May 15	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0.0
May 16	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0.1
May 17	2	2	2	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0.3
May 18	0	0	0	S	0	0	0	0	3	0	0	0	0	0	5	4	0	0	0	0	0	0	0	0	0	5	0.5
May 19	0	0	S	0	0	0	0	0	0	C	C	C	C	C	C	C	C	C	C	0	0	0	0	0	0	0	-
May 20	0	S	0	0	0	0	0	0	1	0	Y	Y	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0.1
May 21	S	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	0.1
May 22	0	1	0	0	0	2	1	1	1	0	0	0	0	1	1	1	1	1	1	1	1	1	S	1	0	2	0.7
May 23	1	1	1	1	1	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	1	S	1	2	0	2	0.7
May 24	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	1	0.0
May 25	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
May 26	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	S	1	1	1	1	0	0	1	0.7
May 27	0	1	0	0	0	1	2	2	2	1	1	1	0	0	1	0	0	S	0	1	2	1	2	0	0	2	0.8
May 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	1	1	0	0	0	1	0.1
May 29	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	S	0	0	0	1	1	1	1	1	0	1	0.3
May 30	1	0	1	1	2	1	2	P	P	P	P	P	P	P	P	0	0	0	0	0	0	0	0	1	0	2	-
May 31	2	2	1	1	2	2	1	1	0	0	0	0	0	S	1	1	1	1	1	1	1	1	1	1	0	2	1.0
Diurnal Maximum	2	2	2	1	2	2	3	2	3	1	2	2	6	1	5	4	1	1	1	3	2	5	5	2			
Diurnal Average	0.3	0.4	0.3	0.2	0.2	0.4	0.5	0.4	0.5	0.2	0.2	0.3	0.4	0.2	0.4	0.3	0.2	0.2	0.1	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	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 NO2 - AQHI - Cadotte Lake Station

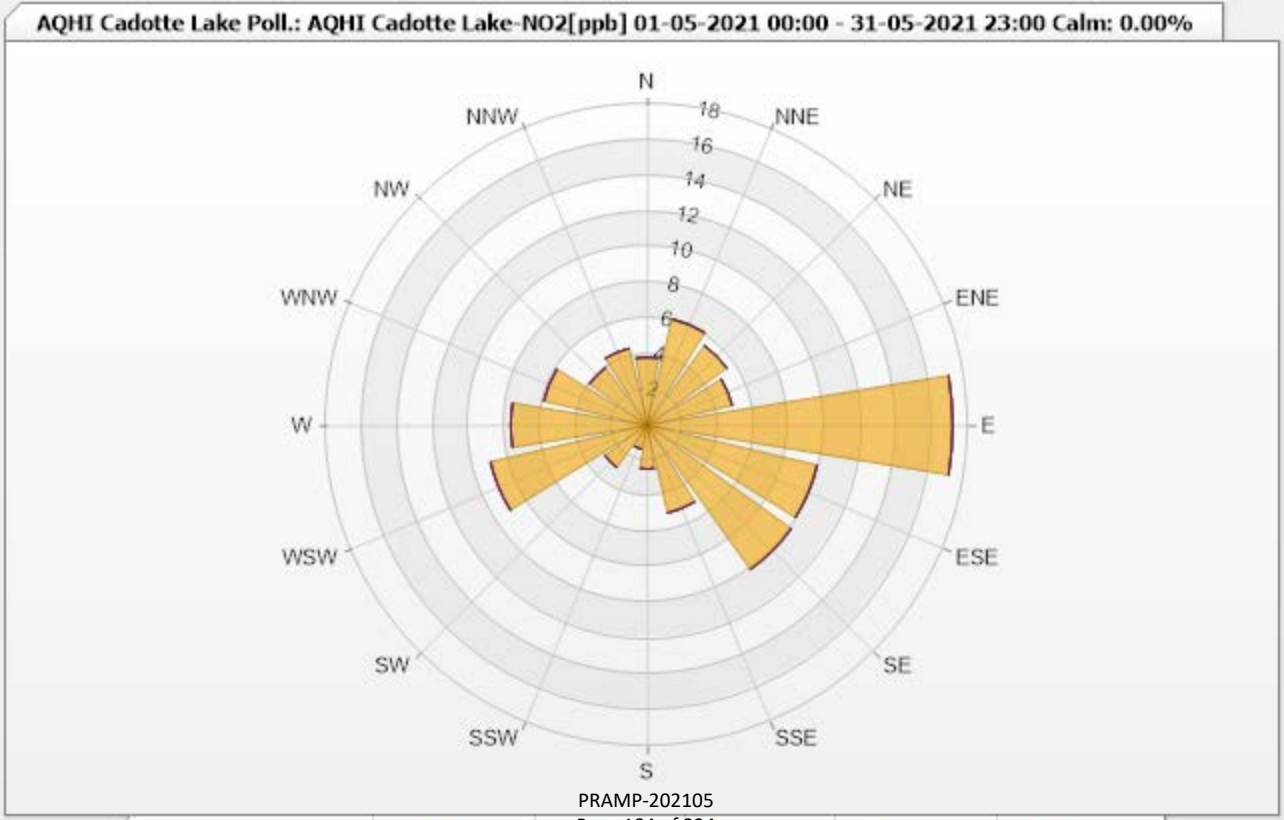




Classes	NO2
<=0	49.69%
0 - 10	50.31%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NO2[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 87.90% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	3.82	0	0	0	0	3.82
NNE	6.12	0	0	0	0	6.12
NE	5.5	0	0	0	0	5.5
ENE	4.89	0	0	0	0	4.89
E	17.13	0	0	0	0	17.13
ESE	9.79	0	0	0	0	9.79
SE	9.94	0	0	0	0	9.94
SSE	5.05	0	0	0	0	5.05
S	2.45	0	0	0	0	2.45
SSW	1.38	0	0	0	0	1.38
SW	2.91	0	0	0	0	2.91
WSW	9.02	0	0	0	0	9.02
W	7.65	0	0	0	0	7.65
WNW	5.96	0	0	0	0	5.96
NW	3.98	0	0	0	0	3.98
NNW	4.43	0	0	0	0	4.43
Summary	100	0	0	0	0	100


AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NO2[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
2
% Icon Classes (ppb)
100 0-30
0 30-50
0 50-76
0 76-159
0 >159.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

OZONE (O_3) in ppb

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

Number of 1-Hour Exceedances: 0

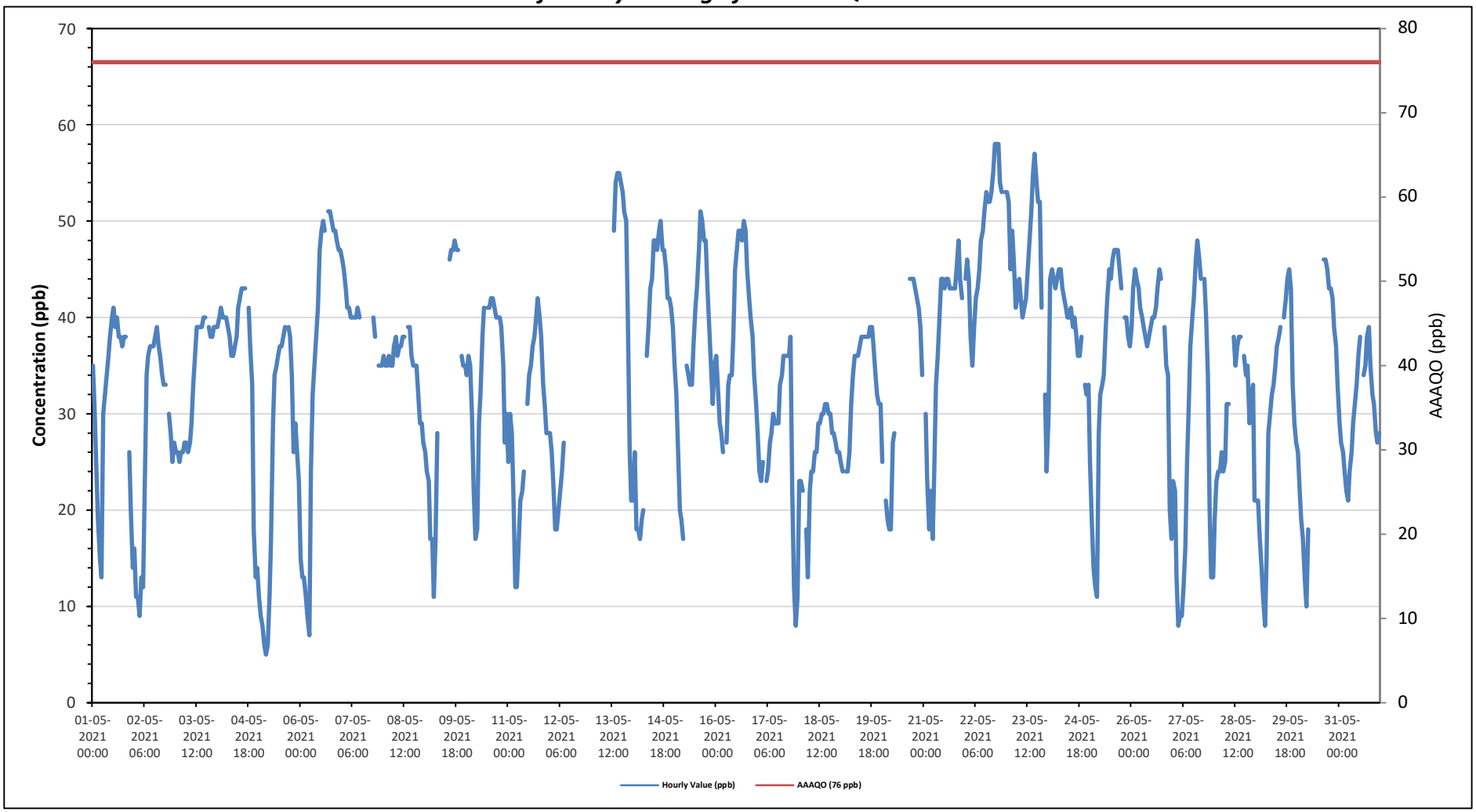
Maximum Hourly Value:	58	ppb	on May 22 at hour 17	Hours in Service:	744
Maximum Daily Value:	48.8	ppb	on May 22	Hours of Data:	657
Minimum Hourly Value:	5	ppb	on May 5 at hour 4	Hours of Missing Data:	51
Minimum Daily Value:	24.9	ppb	on May 5	Hours of Calibration:	36
Monthly Average:	34.0	ppb		Operational Uptime:	93.1

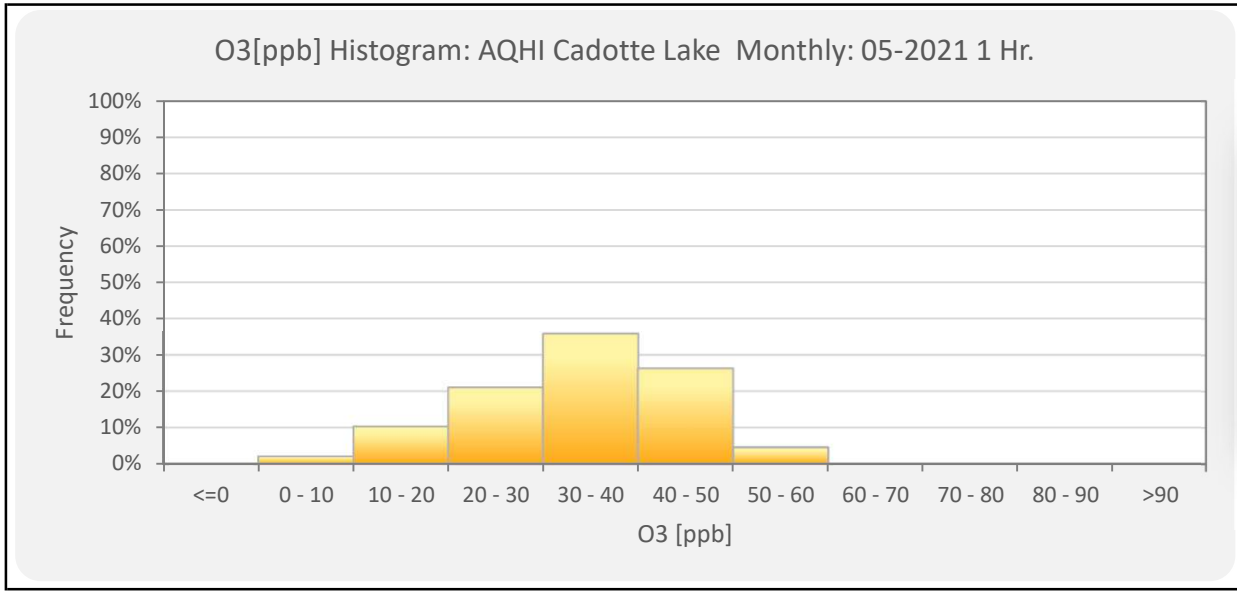
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	35	31	24	19	15	13	30	32	34	36	38	40	41	39	40	38	38	37	38	38	S	26	20	14	13.0	41.0	31.1
May 2	16	11	11	9	13	12	23	34	36	37	37	37	38	39	37	36	34	33	33	S	30	28	25	27	9.0	39.0	27.7
May 3	26	26	25	26	26	27	27	26	27	29	33	36	39	39	39	39	40	40	S	39	38	38	39	39	25.0	40.0	33.2
May 4	39	40	41	40	40	40	39	38	36	36	37	38	41	42	43	43	43	S	41	37	33	18	13	14	13.0	43.0	36.2
May 5	11	9	8	6	5	6	11	17	29	34	35	36	37	37	38	39	S	39	38	34	26	29	26	23	5.0	39.0	24.9
May 6	15	13	13	11	9	7	24	32	35	38	41	47	49	50	49	S	51	51	50	49	49	48	47	47	7.0	51.0	35.9
May 7	46	45	43	41	41	40	40	40	40	41	40	P	P	P	P	P	P	X	40	38	S	35	35	35	35.0	46.0	-
May 8	36	35	35	36	35	35	37	38	36	37	37	38	38	S	39	39	36	35	35	35	32	29	29	27	27.0	39.0	35.2
May 9	26	24	23	17	17	11	17	28	P	P	P	P	P	P	46	47	47	48	47	47	S	36	35	35	11.0	48.0	-
May 10	34	36	35	30	22	17	18	29	32	38	41	S	41	41	42	42	41	40	40	40	39	35	27	30	17.0	42.0	34.3
May 11	25	30	28	22	12	12	17	21	22	24	S	31	34	35	37	38	40	42	40	38	33	31	28	28	12.0	42.0	29.0
May 12	28	26	23	18	18	20	22	24	27	S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	18.0	28.0	-
May 13	P	P	P	P	P	P	P	P	P	P	P	X	S	49	54	55	55	54	53	51	50	41	26	21	21.0	55.0	-
May 14	21	26	18	18	17	19	20	S	36	39	43	44	48	48	47	49	50	47	47	45	42	42	41	39	17.0	50.0	36.8
May 15	35	32	26	20	19	17	S	35	34	33	33	37	41	43	47	51	50	48	48	43	39	35	31	35	17.0	51.0	36.2
May 16	36	33	29	28	26	S	27	33	34	34	38	45	47	49	49	48	50	49	45	42	40	38	34	31	26.0	50.0	38.5
May 17	28	24	23	25	S	23	24	27	28	30	29	29	29	33	34	36	36	36	36	38	22	12	8	11	8.0	38.0	27.0
May 18	23	23	22	S	18	13	22	24	24	26	26	29	29	30	30	31	31	30	30	28	28	27	26	26	13.0	31.0	25.9
May 19	25	24	S	24	24	26	31	34	36	36	36	37	38	38	38	38	38	39	39	37	34	32	31	31	24.0	39.0	33.3
May 20	25	S	21	19	18	18	27	28	NRM	NRM	35	C	C	C	C	C	44	44	44	43	42	41	39	34	18.0	44.0	-
May 21	S	30	23	18	22	17	24	33	36	40	44	44	43	44	44	43	43	43	43	45	48	44	42	S	17.0	48.0	37.0
May 22	44	46	44	38	35	39	42	43	45	48	49	51	53	52	52	53	55	**58**	**58**	**58**	54	53	S	53	35.0	**58.0**	**48.8**
May 23	53	52	45	49	46	41	42	44	42	40	41	42	45	48	51	55	57	54	52	52	41	S	32	24	24.0	57.0	45.6
May 24	30	44	45	44	43	44	45	45	43	42	41	40	40	41	39	40	38	36	36	38	S	33	32	33	30.0	45.0	39.7
May 25	25	19	14	12	11	28	32	33	34	39	42	45	44	46	47	47	47	45	43	S	40	40	38	37	11.0	47.0	35.1
May 26	39	43	45	44	43	41	40	39	38	37	38	39	40	40	41	43	45	44	S	39	35	34	20	17	17.0	45.0	38.4
May 27	23	22	13	8	9	9	12	16	25	31	37	40	42	46	48	46	44	S	44	40	34	20	13	13	8.0	48.0	27.6
May 28	19	23	24	24	26	24	25	31	31	NRM	NRM	38	35	37	38	38	S	36	34	35	29	31	33	21	19.0	38.0	30.1
May 29	21	21	17	14	11	8	15	28	30	32	33	35	37	38	39	S	40	42	44	45	43	33	29	27	8.0	45.0	29.7
May 30	26	22	19	17	13	10	18	P	P	P	P	P	P	P	P	46	46	45	43	43	42	39	37	33	10.0	46.0	-
May 31	29	27	26	24	22	21	24	26	29	31	33	36	38	S	34	35	38	39	35	32	31	28	27	28	21.0	39.0	30.1
Diurnal Maximum	53	52	45	49	46	44	45	45	45	48	49	51	53	52	54	55	57	58	58	58	54	53	47	53			
Diurnal Average	28.9	28.9	26.3	24.2	22.6	22.0	26.7	31.4	33.3	35.5	37.5	38.9	40.3	41.8	42.3	42.9	43.6	42.7	42.0	41.0	37.5	33.7	29.8	28.7			

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 O3 - AQHI - Cadotte Lake Station

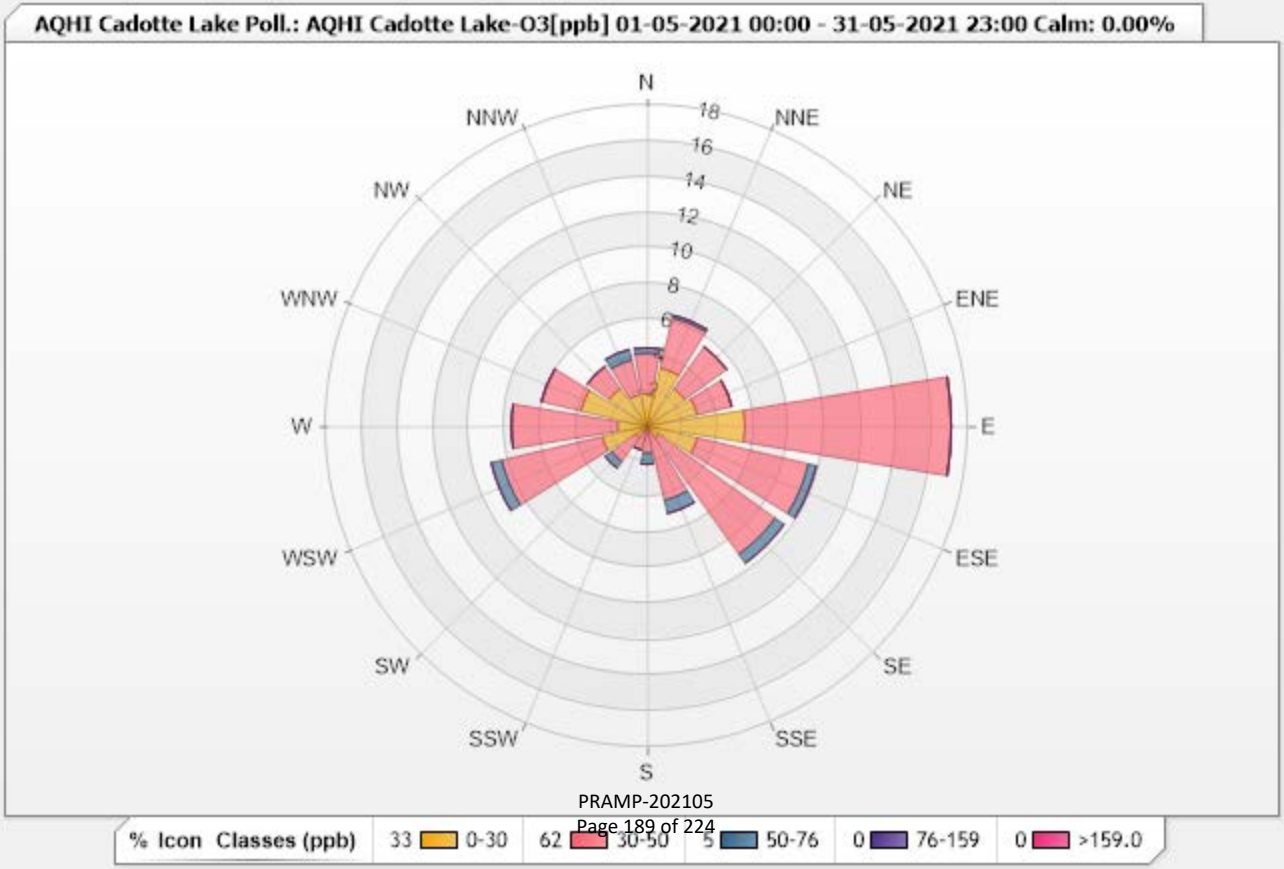




Classes	O3
<=0	0.00%
0 - 10	2.13%
10 - 20	10.35%
20 - 30	21.00%
30 - 40	35.77%
40 - 50	26.18%
50 - 60	4.57%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-O3[ppb] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.31% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	1.83	2.28	0.3	0	0	4.41
NNE	3.35	2.89	0.15	0	0	6.39
NE	2.59	2.89	0	0	0	5.48
ENE	2.89	1.98	0	0	0	4.87
E	5.48	11.57	0	0	0	17.05
ESE	2.89	6.39	0.46	0	0	9.74
SE	0.76	8.07	0.61	0	0	9.44
SSE	0.15	4.11	0.76	0	0	5.02
S	0	1.52	0.61	0	0	2.13
SSW	0.15	1.22	0	0	0	1.37
SW	0.76	1.67	0.46	0	0	2.89
WSW	2.59	5.78	0.61	0	0	8.98
W	1.67	5.94	0	0	0	7.61
WNW	3.81	2.28	0	0	0	6.09
NW	2.59	1.52	0	0	0	4.11
NNW	1.83	1.98	0.61	0	0	4.42
Summary	33.34	62.09	4.57	0	0	100


AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-O3[ppb] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
% Icon Classes (ppb)
33 0-30
62 30-50
5 50-76
0 76-159
0 >159.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

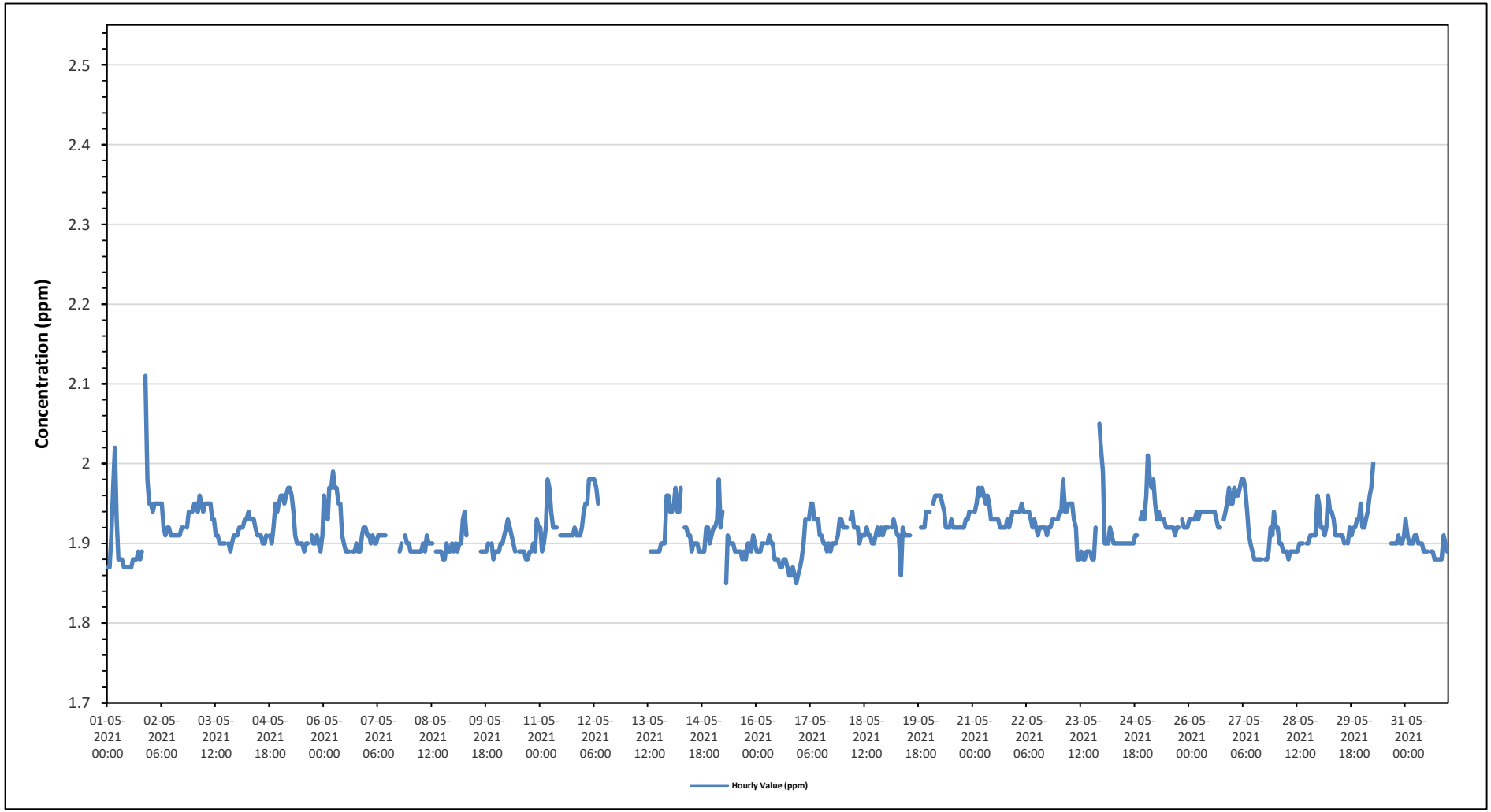
Maximum Hourly Value:	2.11	ppm	on May 1 at hour 21	Hours in Service:	744
Maximum Daily Value:	1.94	ppm	on May 21	Hours of Data:	659
Minimum Hourly Value:	1.85	ppm	on May 15 at hour 7	Hours of Missing Data:	49
Minimum Daily Value:	1.88	ppm	on May 16	Hours of Calibration:	36
Monthly Average:	1.92	ppm		Operational Uptime:	93.4

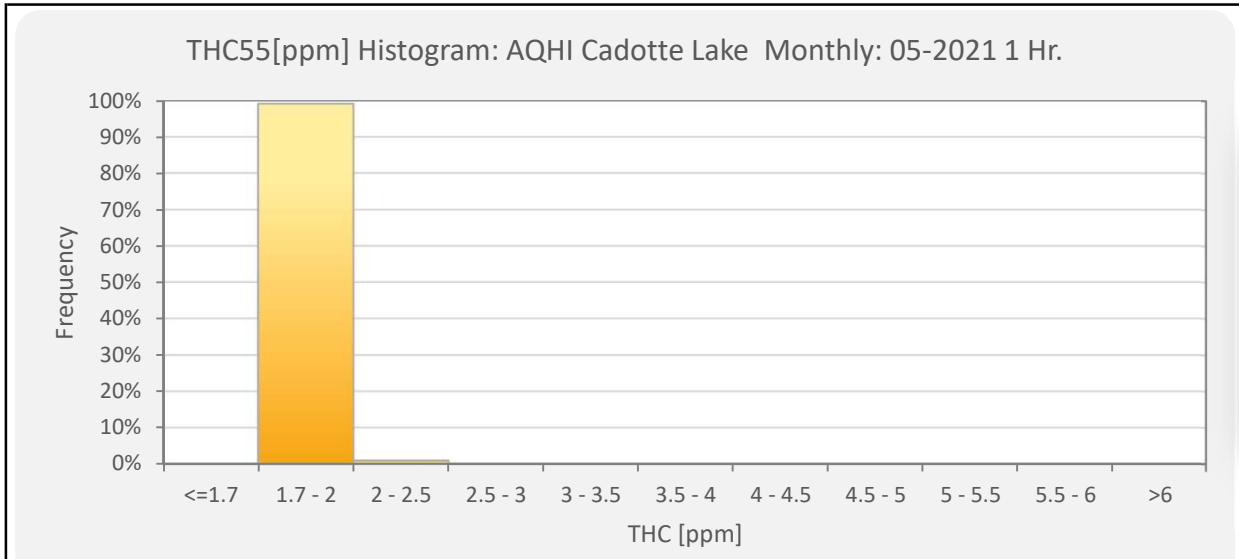
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	1.87	1.87	1.91	1.97	2.02	1.93	1.88	1.88	1.88	1.87	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.89	1.88	1.89	S	2.11	1.98	1.95	1.87	2.11	1.91
May 2	1.95	1.94	1.95	1.95	1.95	1.95	1.95	1.92	1.91	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.92	S	1.92	1.94	1.94	1.94	1.91	1.95	1.93
May 3	1.95	1.95	1.94	1.96	1.95	1.94	1.95	1.95	1.95	1.95	1.93	1.93	1.91	1.91	1.90	1.90	1.90	1.90	S	1.90	1.89	1.90	1.91	1.91	1.89	1.96	1.93
May 4	1.91	1.92	1.92	1.92	1.93	1.93	1.94	1.93	1.93	1.93	1.92	1.91	1.91	1.91	1.90	1.90	1.91	S	1.91	1.90	1.92	1.95	1.94	1.95	1.90	1.95	1.92
May 5	1.96	1.96	1.95	1.96	1.97	1.97	1.96	1.94	1.91	1.90	1.90	1.90	1.90	1.89	1.90	1.90	S	1.91	1.90	1.90	1.91	1.90	1.89	1.91	1.89	1.97	1.92
May 6	1.96	1.94	1.93	1.97	1.97	1.99	1.97	1.97	1.95	1.95	1.91	1.90	1.89	1.89	1.89	S	1.89	1.89	1.90	1.89	1.89	1.91	1.92	1.92	1.89	1.99	1.93
May 7	1.91	1.91	1.90	1.91	1.90	1.90	1.91	1.91	1.91	1.91	1.91	P	P	P	P	P	P	X	1.89	1.90	S	1.91	1.90	1.90	1.89	1.91	-
May 8	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.89	1.91	1.90	1.90	1.90	S	1.89	1.89	1.89	1.89	1.88	1.88	1.90	1.89	1.89	1.90	1.88	1.91	1.89
May 9	1.89	1.90	1.89	1.90	1.90	1.93	1.94	1.91	P	P	P	P	P	P	X	1.89	1.89	1.89	1.89	1.90	S	1.90	1.88	1.89	1.88	1.94	-
May 10	1.89	1.89	1.90	1.90	1.91	1.92	1.93	1.92	1.91	1.90	1.89	S	1.89	1.89	1.89	1.89	1.88	1.88	1.89	1.89	1.90	1.89	1.93	1.92	1.88	1.93	1.90
May 11	1.92	1.89	1.90	1.92	1.98	1.97	1.94	1.92	1.92	1.92	S	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.92	1.91	1.91	1.91	1.92	1.89	1.98	1.92
May 12	1.94	1.95	1.95	1.98	1.98	1.98	1.98	1.97	1.95	S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1.94	1.98	-
May 13	P	P	P	P	P	P	P	P	P	P	P	X	S	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.90	1.96	1.96	1.89	1.96	-
May 14	1.94	1.94	1.95	1.97	1.94	1.94	1.97	S	1.92	1.92	1.91	1.91	1.89	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.92	1.92	1.90	1.91	1.89	1.97	1.92
May 15	1.92	1.92	1.93	1.98	1.92	1.94	S	1.85	1.91	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.88	1.89	1.88	1.90	1.90	1.89	1.91	1.90	1.85	1.98	1.90
May 16	1.89	1.89	1.89	1.90	1.90	S	1.90	1.91	1.90	1.90	1.88	1.88	1.88	1.87	1.87	1.88	1.88	1.87	1.86	1.86	1.87	1.86	1.85	1.86	1.85	1.91	1.88
May 17	1.87	1.88	1.90	1.93	S	1.93	1.95	1.95	1.93	1.93	1.93	1.91	1.91	1.90	1.90	1.89	1.90	1.89	1.90	1.90	1.90	1.91	1.93	1.93	1.87	1.95	1.91
May 18	1.92	1.92	1.92	S	1.93	1.94	1.92	1.92	1.92	1.90	1.91	1.91	1.91	1.92	1.91	1.91	1.90	1.90	1.91	1.92	1.91	1.92	1.91	1.92	1.90	1.94	1.92
May 19	1.92	1.92	S	1.92	1.93	1.92	1.91	1.91	1.86	1.92	1.91	1.91	1.91	1.91	C	C	C	C	C	1.92	1.92	1.92	1.94	1.94	1.86	1.94	1.92
May 20	1.94	S	1.95	1.96	1.96	1.96	1.96	1.95	1.94	1.92	1.92	1.92	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.93	1.93	1.94	1.94	1.92	1.96	1.93
May 21	S	1.94	1.95	1.97	1.96	1.97	1.96	1.95	1.96	1.95	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.92	1.92	1.93	1.92	1.93	1.94	S	1.92	1.97	1.94
May 22	1.94	1.94	1.94	1.95	1.94	1.94	1.94	1.94	1.93	1.92	1.93	1.92	1.91	1.92	1.92	1.92	1.92	1.91	1.92	1.92	1.93	1.93	S	1.93	1.91	1.95	1.93
May 23	1.94	1.94	1.98	1.94	1.94	1.95	1.95	1.95	1.93	1.92	1.88	1.88	1.89	1.88	1.88	1.89	1.89	1.89	1.88	1.88	1.92	S	2.05	2.02	1.88	2.05	1.92
May 24	1.99	1.90	1.90	1.90	1.92	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.91	1.91	S	1.93	1.94	1.93	1.90	1.99	1.91
May 25	1.96	2.01	1.98	1.97	1.98	1.95	1.93	1.94	1.93	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.91	1.92	1.92	S	1.93	1.92	1.92	1.92	1.91	2.01	1.94
May 26	1.93	1.93	1.93	1.93	1.94	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.92	1.92	S	1.93	1.94	1.95	1.97	1.95	1.92	1.97	1.94
May 27	1.95	1.97	1.96	1.96	1.97	1.98	1.98	1.97	1.94	1.91	1.90	1.89	1.88	1.88	1.88	1.88	1.88	S	1.88	1.88	1.89	1.92	1.91	1.94	1.88	1.98	1.92
May 28	1.92	1.92	1.90	1.90	1.89	1.89	1.89	1.88	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.90	S	1.90	1.90	1.91	1.91	1.91	1.91	1.96	1.88	1.96	1.90
May 29	1.95	1.92	1.92	1.91	1.92	1.96	1.94	1.94	1.93	1.91	1.91	1.91	1.91	1.91	1.90	S	1.90	1.92	1.91	1.92	1.92	1.93	1.93	1.95	1.90	1.96	1.92
May 30	1.92	1.92	1.93	1.94	1.96	1.97	2.00	P	P	P	P	P	P	P	P	X	1.90	1.90	1.90	1.90	1.91	1.90	1.90	1.91	1.90	2.00	-
May 31	1.93	1.91	1.90	1.90	1.90	1.91	1.91	1.90	1.90	1.90	1.89	1.89	1.89	S	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.91	1.90	1.89	1.88	1.93	1.90
Diurnal Maximum	1.99	2.01	1.98	1.98	2.02	1.99	2.00	1.97	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.93	1.92	1.92	1.92	1.93	1.94	2.11	2.05	2.02			
Diurnal Average	1.93	1.92	1.93	1.94	1.94	1.94	1.94	1.93	1.92	1.92	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.91	1.92	1.92	1.93			

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 - AQHI - Cadotte Lake Station

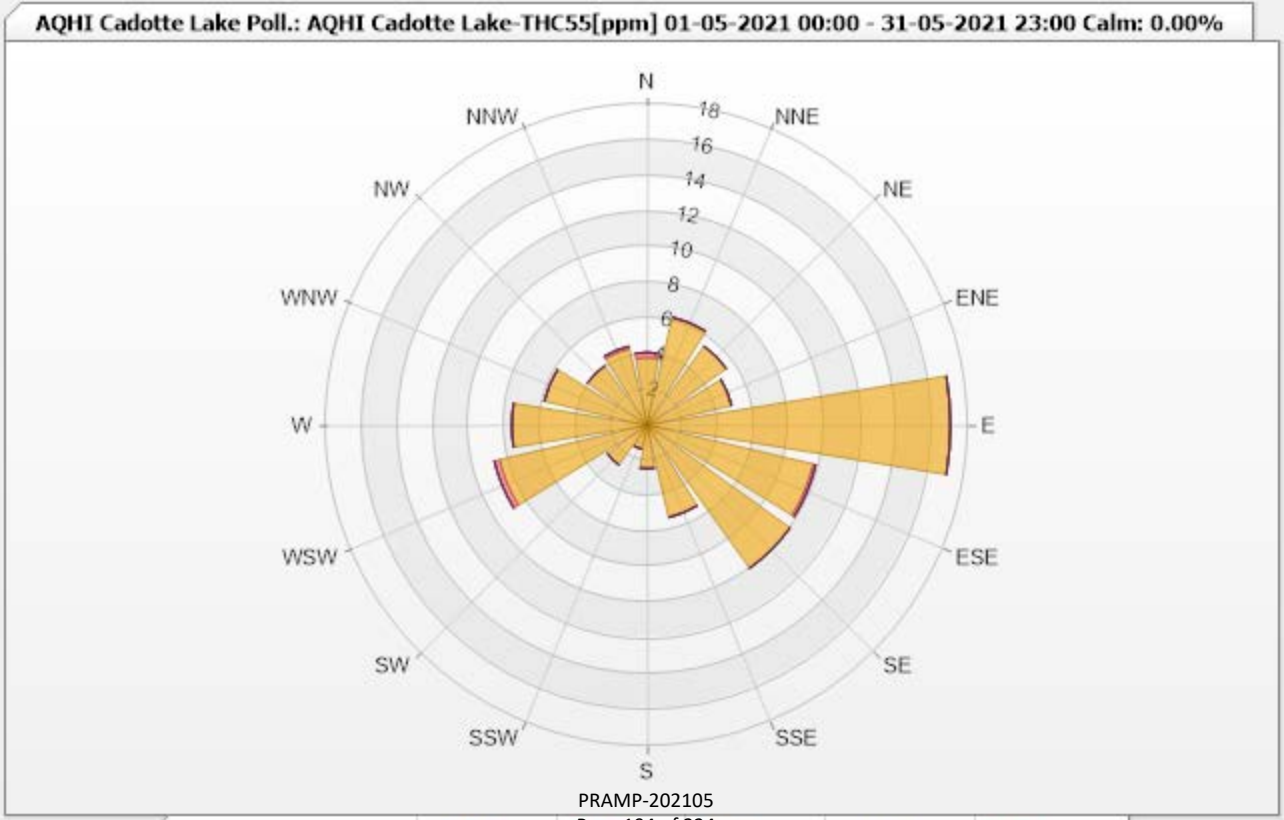




Classes	THC55
<=1.7	0.00%
1.7 - 2	99.09%
2 - 2.5	0.91%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-THC55[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.58% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	3.79	0.3	0	0	0	4.09
NNE	6.22	0	0	0	0	6.22
NE	5.46	0	0	0	0	5.46
ENE	4.86	0	0	0	0	4.86
E	17	0	0	0	0	17
ESE	9.56	0.15	0	0	0	9.71
SE	9.86	0	0	0	0	9.86
SSE	5.31	0	0	0	0	5.31
S	2.43	0	0	0	0	2.43
SSW	1.37	0	0	0	0	1.37
SW	2.73	0	0	0	0	2.73
WSW	8.5	0.3	0	0	0	8.8
W	7.59	0	0	0	0	7.59
WNW	5.92	0	0	0	0	5.92
NW	4.1	0	0	0	0	4.1
NNW	4.4	0.15	0	0	0	4.55
Summary	99.1	0.9	0	0	0	100


AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-THC55[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
2
% Icon Classes (ppm)
99 0-2
1 2-5
0 5-10
0 10-40
0 >40.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

METHANE (CH4) in ppm

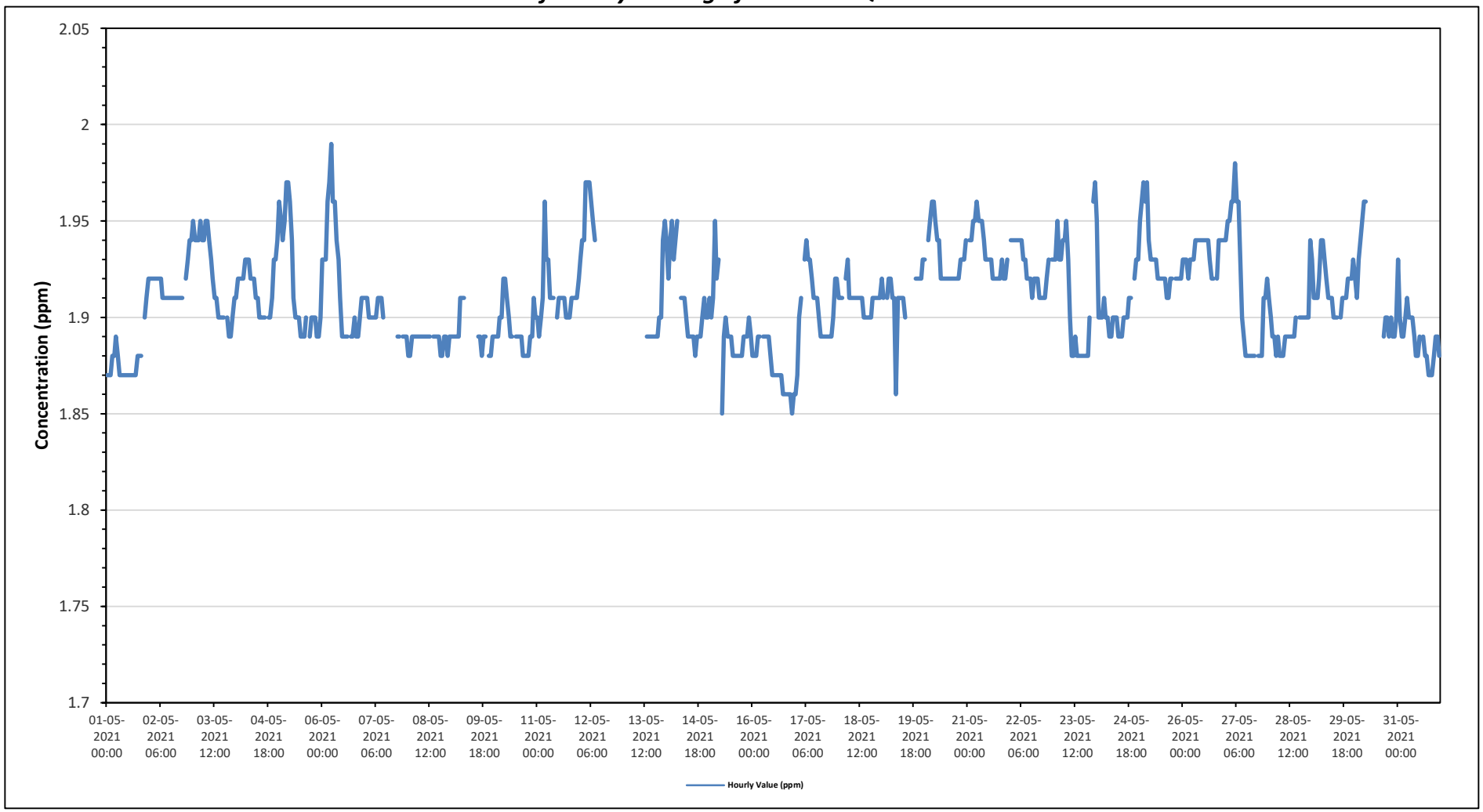
Maximum Hourly Value:	1.99	ppm	on May 6 at hour 5	Hours in Service:	744
Maximum Daily Value:	1.93	ppm	on May 21	Hours of Data:	659
Minimum Hourly Value:	1.85	ppm	on May 15 at hour 7	Hours of Missing Data:	49
Minimum Daily Value:	1.87	ppm	on May 16	Hours of Calibration:	36
Monthly Average:	1.91	ppm		Operational Uptime:	93.4

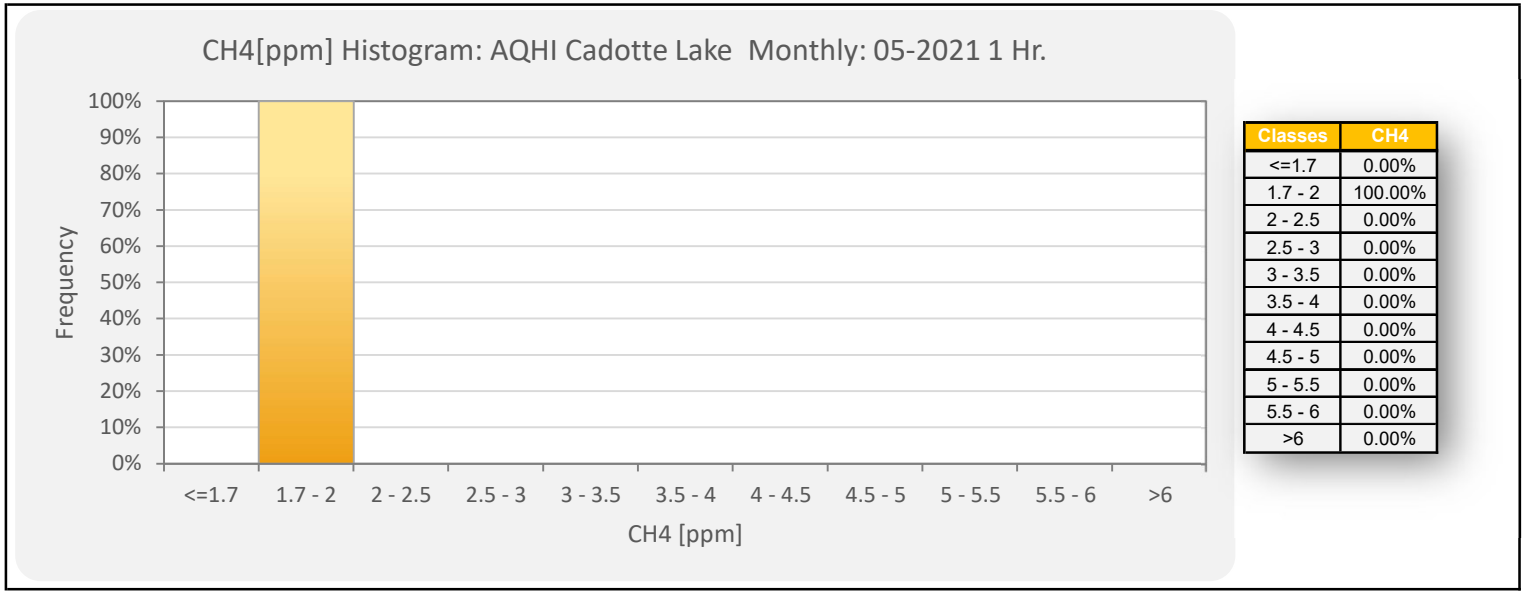
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	1.87	1.87	1.87	1.88	1.88	1.89	1.88	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.88	1.88	1.88	S	1.90	1.91	1.92	1.87	1.92	1.88
May 2	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	S	1.92	1.93	1.94	1.94	1.91	1.94	1.92
May 3	1.95	1.94	1.94	1.94	1.95	1.94	1.94	1.95	1.95	1.94	1.93	1.92	1.91	1.91	1.90	1.90	1.90	1.90	S	1.90	1.89	1.89	1.90	1.91	1.89	1.95	1.92
May 4	1.91	1.92	1.92	1.92	1.92	1.93	1.93	1.93	1.92	1.92	1.92	1.91	1.91	1.90	1.90	1.90	1.90	S	1.90	1.90	1.91	1.93	1.93	1.94	1.90	1.94	1.92
May 5	1.96	1.95	1.94	1.95	1.97	1.97	1.96	1.94	1.91	1.90	1.90	1.90	1.89	1.89	1.89	1.90	S	1.89	1.90	1.90	1.90	1.89	1.89	1.90	1.89	1.97	1.92
May 6	1.93	1.93	1.93	1.96	1.97	**1.99**	1.96	1.96	1.94	1.93	1.91	1.89	1.89	1.89	1.89	S	1.89	1.89	1.90	1.89	1.89	1.90	1.91	1.91	1.89	**1.99**	1.92
May 7	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.91	1.91	1.91	1.90	P	P	P	P	P	P	X	1.89	1.89	S	1.89	1.89	1.89	1.89	1.91	-
May 8	1.88	1.88	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	S	1.89	1.89	1.89	1.89	1.88	1.88	1.89	1.89	1.88	1.89	1.88	1.89	1.89
May 9	1.89	1.89	1.89	1.89	1.89	1.91	1.91	1.91	P	P	P	P	P	P	X	1.89	1.89	1.88	1.89	1.89	S	1.88	1.88	1.89	1.88	1.91	-
May 10	1.89	1.89	1.89	1.90	1.90	1.92	1.92	1.91	1.90	1.89	1.89	S	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.89	1.89	1.91	1.90	1.88	1.92	1.89
May 11	1.90	1.89	1.90	1.91	1.96	1.93	1.93	1.91	1.91	1.91	S	1.90	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.91	1.91	1.91	1.91	1.92	1.89	1.96	1.91
May 12	1.93	1.94	1.94	1.97	1.97	1.97	1.96	1.95	1.94	S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1.93	1.97	-
May 13	P	P	P	P	P	P	P	P	P	P	P	X	S	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.94	1.95	1.89	1.95	-
May 14	1.94	1.92	1.94	1.95	1.93	1.94	1.95	S	1.91	1.91	1.91	1.90	1.89	1.89	1.89	1.89	1.88	1.89	1.89	1.89	1.90	1.91	1.90	1.90	1.88	1.95	1.91
May 15	1.91	1.90	1.91	1.95	1.92	1.93	S	1.85	1.89	1.90	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.89	1.89	1.89	1.90	1.89	**1.85**	1.95	1.89
May 16	1.88	1.88	1.88	1.89	1.89	S	1.89	1.89	1.89	1.89	1.88	1.87	1.87	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.85	1.86	**1.85**	1.89	1.87
May 17	1.86	1.87	1.90	1.91	S	1.93	1.94	1.93	1.93	1.92	1.91	1.91	1.91	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.92	1.92	1.86	1.94	1.90
May 18	1.91	1.91	1.91	S	1.92	1.93	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.91	1.91	1.91	1.91	1.91	1.90	1.93	1.91
May 19	1.92	1.91	S	1.91	1.92	1.92	1.91	1.91	1.86	1.91	1.91	1.91	1.91	1.90	C	C	C	C	C	1.92	1.92	1.92	1.92	1.93	1.86	1.93	1.91
May 20	1.93	S	1.94	1.95	1.96	1.96	1.95	1.94	1.94	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.93	1.93	1.93	1.94	1.92	1.96	1.93
May 21	S	1.94	1.94	1.95	1.95	1.96	1.95	1.95	1.95	1.94	1.93	1.93	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.93	1.92	1.92	1.93	S	1.92	1.96	**1.93**
May 22	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.93	1.92	1.92	1.92	1.91	1.92	1.92	1.92	1.91	1.91	1.91	1.91	1.92	1.93	S	1.93	1.91	1.94	1.93
May 23	1.93	1.93	1.95	1.93	1.93	1.94	1.94	1.95	1.93	1.90	1.88	1.88	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.90	S	1.96	1.97	1.88	1.97	1.91
May 24	1.95	1.90	1.90	1.90	1.91	1.90	1.90	1.89	1.89	1.90	1.90	1.90	1.89	1.89	1.89	1.90	1.90	1.90	1.91	1.91	S	1.92	1.93	1.93	1.89	1.95	1.90
May 25	1.95	1.96	1.97	1.96	1.97	1.94	1.93	1.93	1.93	1.93	1.92	1.92	1.92	1.92	1.92	1.91	1.91	1.92	1.92	S	1.92	1.92	1.92	1.92	1.91	1.97	1.93
May 26	1.93	1.93	1.93	1.92	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.92	1.92	S	1.92	1.94	1.94	1.94	1.94	1.92	1.94	1.93
May 27	1.94	1.95	1.95	1.96	1.96	1.98	1.96	1.96	1.93	1.90	1.89	1.88	1.88	1.88	1.88	1.88	1.88	S	1.88	1.88	1.88	1.91	1.91	1.92	1.88	1.98	1.91
May 28	1.91	1.90	1.89	1.89	1.88	1.89	1.88	1.88	1.88	1.89	1.89	1.89	1.89	1.89	1.89	1.90	S	1.90	1.90	1.90	1.90	1.90	1.90	1.94	1.88	1.94	1.89
May 29	1.93	1.91	1.91	1.91	1.92	1.94	1.94	1.93	1.92	1.91	1.91	1.91	1.90	1.90	1.90	S	1.90	1.91	1.91	1.91	1.92	1.92	1.92	1.93	1.90	1.94	1.92
May 30	1.92	1.91	1.93	1.94	1.95	1.96	1.96	P	P	P	P	P	P	P	P	X	1.89	1.90	1.90	1.89	1.90	1.89	1.89	1.90	1.89	1.96	-
May 31	1.93	1.90	1.89	1.89	1.90	1.91	1.90	1.90	1.90	1.89	1.88	1.88	1.89	S	1.89	1.88	1.88	1.87	1.87	1.87	1.88	1.89	1.89	1.88	1.87	1.93	1.89
Diurnal Maximum	1.96	1.96	1.97	1.97	1.97	1.99	1.96	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.92	1.92	1.92	1.93	1.94	1.94	1.96	1.97			
Diurnal Average	1.92	1.91	1.92	1.92	1.93	1.93	1.93	1.92	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.90	1.89	1.90	1.89	1.90	1.90	1.91	1.91	1.92			

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 - AQHI - Cadotte Lake Station

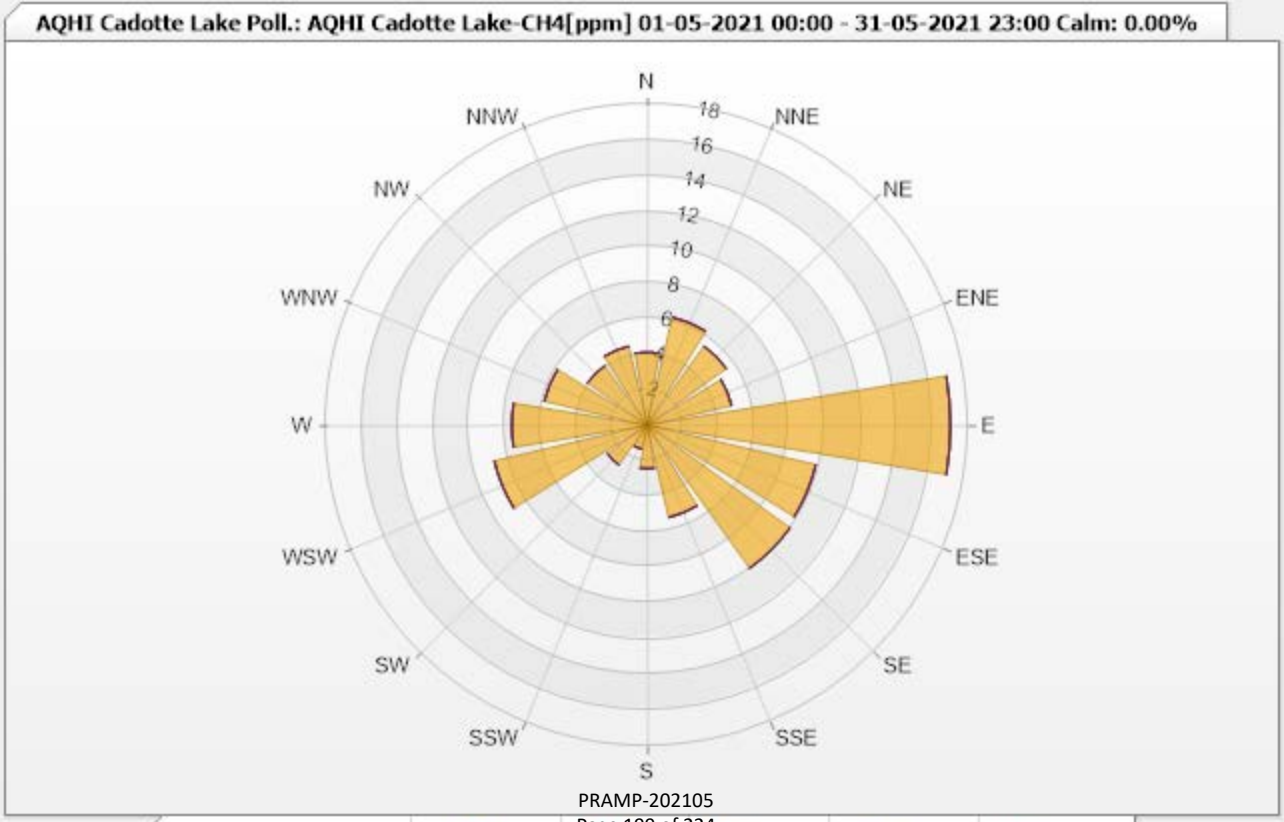




Classes	CH4
<=1.7	0.00%
1.7 - 2	100.00%
2 - 2.5	0.00%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-CH4[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.58% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	4.1	0	0	0	0	4.1
NNE	6.22	0	0	0	0	6.22
NE	5.46	0	0	0	0	5.46
ENE	4.86	0	0	0	0	4.86
E	17	0	0	0	0	17
ESE	9.71	0	0	0	0	9.71
SE	9.86	0	0	0	0	9.86
SSE	5.31	0	0	0	0	5.31
S	2.43	0	0	0	0	2.43
SSW	1.37	0	0	0	0	1.37
SW	2.73	0	0	0	0	2.73
WSW	8.8	0	0	0	0	8.8
W	7.59	0	0	0	0	7.59
WNW	5.92	0	0	0	0	5.92
NW	4.1	0	0	0	0	4.1
NNW	4.55	0	0	0	0	4.55
Summary	100	0	0	0	0	100


AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-CH4[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
2
% Icon Classes (ppm)
100 0-2
0 2-5
0 5-10
0 10-20
0 >20.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

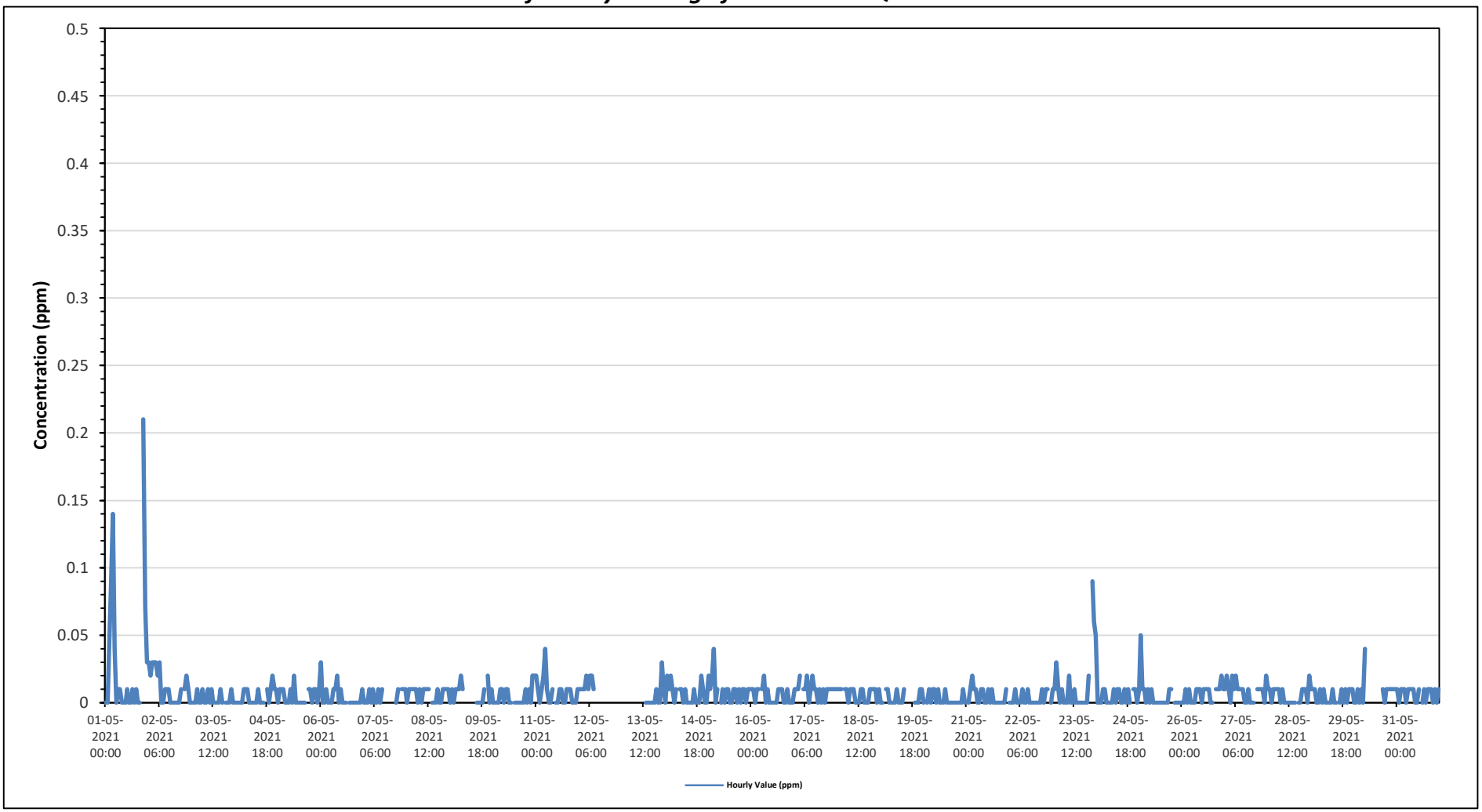
Maximum Hourly Value:	0.21	ppm	on May 1 at hour 21	Hours in Service:	744
Maximum Daily Value:	0.03	ppm	on May 1	Hours of Data:	659
Minimum Hourly Value:	0.00	ppm	on May 1 at hour 0	Hours of Missing Data:	49
Minimum Daily Value:	0.00	ppm	on May 3	Hours of Calibration:	36
Monthly Average:	0.01	ppm		Operational Uptime:	93.4

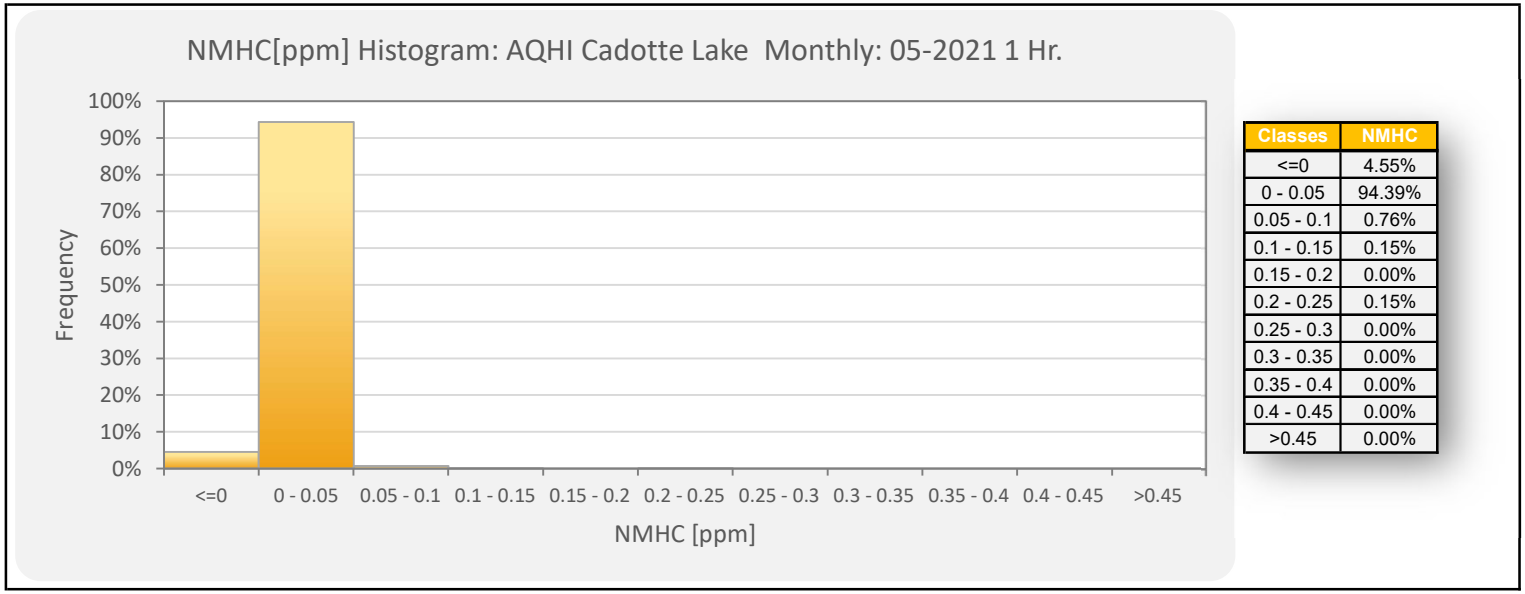
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
May 1	0.00	0.00	0.04	0.09	0.14	0.04	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	S	0.21	0.07	0.03	0.00	0.21	0.03
May 2	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	S	0.01	0.02	0.01	0.00	0.00	0.03	0.01
May 3	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	S	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00
May 4	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	S	0.01	0.00	0.01	0.02	0.01	0.01	0.00	0.02	0.00
May 5	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	S	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.02	0.00
May 6	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.02	0.00	0.01	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00
May 7	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.01	P	P	P	P	P	P	X	0.00	0.01	S	0.01	0.01	0.01	0.00	0.01	-
May 8	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.01	S	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.01
May 9	0.00	0.01	0.00	0.01	0.01	0.01	0.02	0.01	P	P	P	P	P	P	X	0.00	0.00	0.00	0.00	0.01	S	0.02	0.00	0.01	0.00	0.02	-
May 10	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.02	0.02	0.00	0.02	0.00
May 11	0.02	0.01	0.00	0.01	0.02	0.04	0.01	0.00	0.00	0.01	S	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.04	0.01
May 12	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.01	S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0.01	0.02	-
May 13	P	P	P	P	P	P	P	P	P	P	P	X	S	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.01	0.00	0.03	-
May 14	0.00	0.02	0.01	0.02	0.01	0.00	0.01	S	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.02	0.01
May 15	0.02	0.01	0.02	0.04	0.00	0.01	S	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.04	0.01
May 16	0.01	0.01	0.00	0.01	0.01	S	0.01	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.01
May 17	0.01	0.01	0.01	0.02	S	0.01	0.01	0.02	0.00	0.01	0.02	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.02	0.01
May 18	0.01	0.01	0.01	S	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01
May 19	0.00	0.00	S	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	C	C	C	C	C	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.00
May 20	0.00	S	0.00	0.01	0.00	0.01	0.01	0.00	0.01	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	0.01	0.00	0.00	0.01	0.00
May 21	S	0.00	0.01	0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	S	0.00	0.02	0.00
May 22	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	S	0.00	0.00	0.01	0.00
May 23	0.01	0.01	0.03	0.01	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	S	0.09	0.06	0.00	0.09	0.01
May 24	0.05	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.01	0.00	S	0.01	0.01	0.00	0.00	0.05	0.01
May 25	0.01	0.05	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	S	0.00	0.00	0.00	0.00	0.00	0.05	0.01
May 26	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.00	S	0.01	0.01	0.01	0.02	0.01	0.00	0.02	0.01
May 27	0.01	0.02	0.01	0.00	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	S	0.01	0.01	0.01	0.01	0.00	0.02	0.00	0.02	0.01
May 28	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.01	0.01	0.01	0.00	0.02	0.00	0.02	0.01
May 29	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	S	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.00
May 30	0.00	0.00	0.01	0.00	0.01	0.00	0.04	P	P	P	P	P	P	P	P	X	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.04	-
May 31	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.01	S	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.01
Diurnal Maximum	0.05	0.05	0.04	0.09	0.14	0.04	0.04	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.21	0.09	0.06			
Diurnal Average	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	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	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

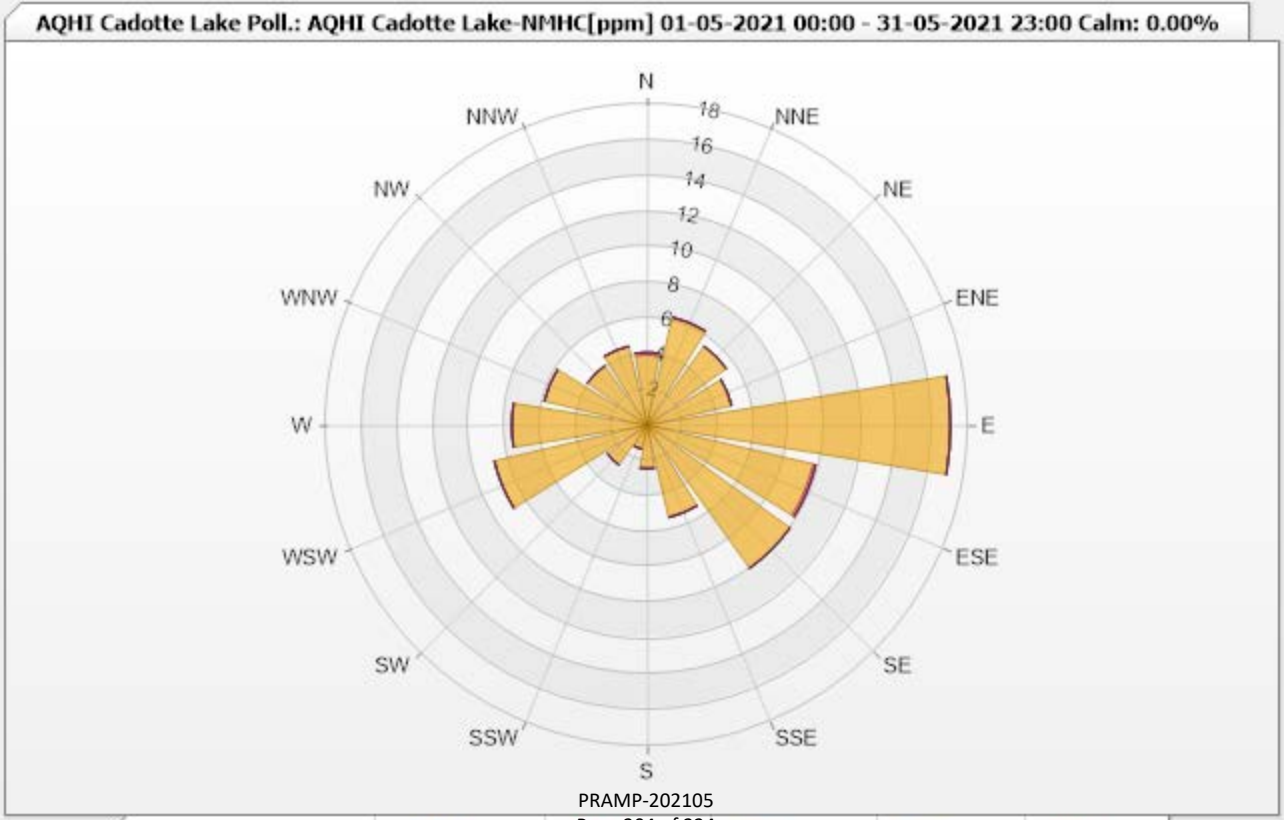




Classes	NMHC
<=0	4.55%
0 - 0.05	94.39%
0.05 - 0.1	0.76%
0.1 - 0.15	0.15%
0.15 - 0.2	0.00%
0.2 - 0.25	0.15%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NMHC[ppm] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.58% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-0.9	0.9-2	>2.0	Total
N	3.95	0.15	0	0	0	4.1
NNE	6.22	0	0	0	0	6.22
NE	5.46	0	0	0	0	5.46
ENE	4.86	0	0	0	0	4.86
E	17	0	0	0	0	17
ESE	9.56	0.15	0	0	0	9.71
SE	9.86	0	0	0	0	9.86
SSE	5.31	0	0	0	0	5.31
S	2.43	0	0	0	0	2.43
SSW	1.37	0	0	0	0	1.37
SW	2.73	0	0	0	0	2.73
WSW	8.8	0	0	0	0	8.8
W	7.59	0	0	0	0	7.59
WNW	5.92	0	0	0	0	5.92
NW	4.1	0	0	0	0	4.1
NNW	4.55	0	0	0	0	4.55
Summary	100	0.3	0	0	0	100


AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-NMHC[ppm] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
2
% Icon Classes (ppm)
100 0-0.1
0 0.1-0.3
0 0.3-0.9
0 0.9-2
0 >2.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

PARTICULATE MATTER 2.5 ($PM_{2.5}$) in $\mu g/m^3$

Alberta Ambient Air Quality Guidelines (AAAQG): 1-Hour 80 µg/m3, Alberta Ambient Air Quality Objectives (AAAQO): 24-Hour 29 µg/m3

Number of 1-Hour Exceedances: 0 Number of 24-Hour Exceedances: 0

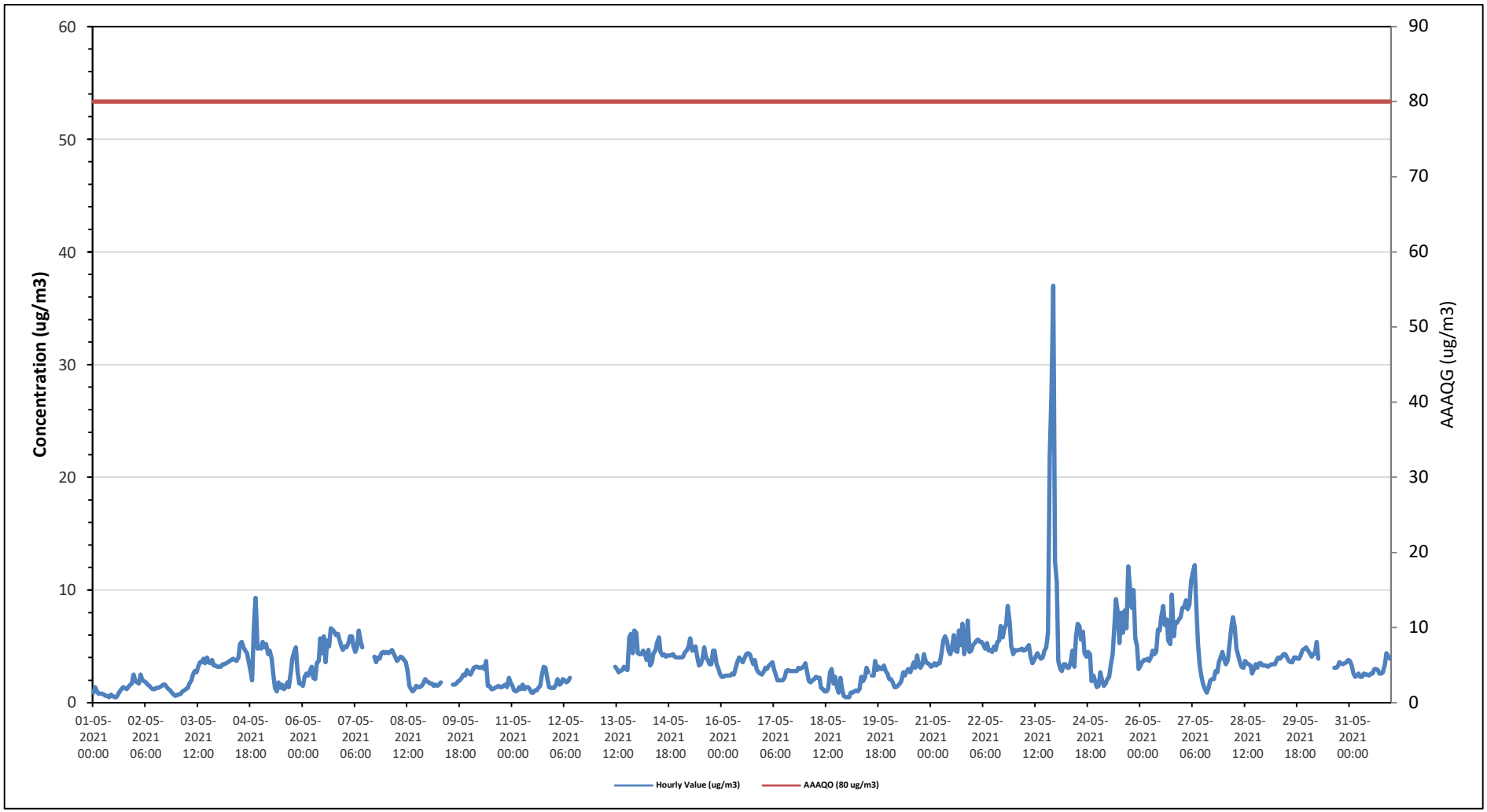
Maximum Hourly Value:	37.0 $\mu g/m^3$ on May 23 at hour 22	Hours in Service:	744
Maximum Daily Value:	7.9 $\mu g/m^3$ on May 23	Hours of Data:	698
Minimum Hourly Value:	0.5 $\mu g/m^3$ on May 1 at hour 9	Hours of Missing Data:	45
Minimum Daily Value:	1.0 $\mu g/m^3$ on May 1	Hours of Calibration:	1
Monthly Average:	3.6 $\mu g/m^3$	Operational Uptime:	94.0

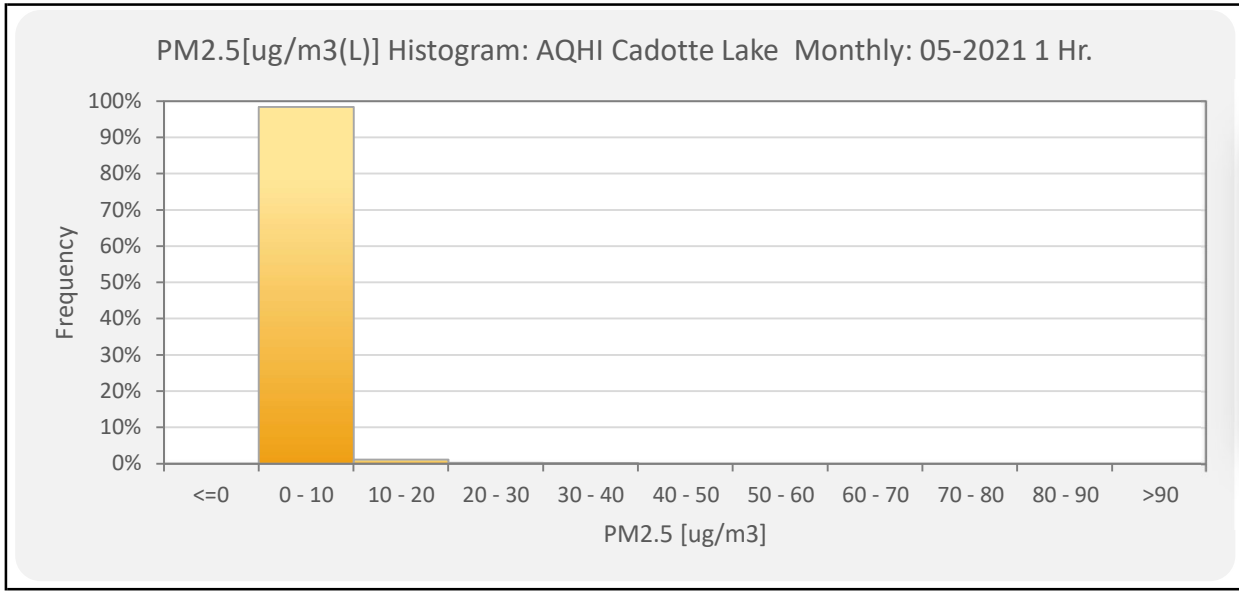
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
May 1	0.9	1.4	1	0.8	0.8	0.8	0.7	0.6	0.6	0.5	0.7	0.6	0.5	0.5	0.7	1	1.2	1.4	1.3	1.2	1.4	1.6	1.7	2.5	0.5	2.5	1.0
May 2	2	2	2	3	2	2	2	2	2	1	1	1	1	1	1	2	2	2	1	1	1	1	1	1	0.6	2.5	1.5
May 3	1	1	1	1	1	1	1	2	2	3	3	3	3	4	4	4	4	4	4	4	4	3	3	3	0.7	4.0	2.5
May 4	3	3	3	3	4	4	4	4	4	4	4	4	5	5	5	5	4	4	3	2	7	9	5	5	2.0	9.3	4.3
May 5	5	5	5	5	4	5	4	3	1	1	2	1	2	1	1	2	1	3	4	5	5	3	2	2	1.0	5.4	2.9
May 6	2	2	3	2	3	3	2	2	4	4	6	4	6	4	6	5	7	7	6	6	6	6	5	5	1.5	6.6	4.3
May 7	5	5	5	6	6	5	5	5	6	6	5	P	P	P	P	P	P	4	4	4	4	4	5	4	3.6	6.4	4.8
May 8	5	4	5	5	4	4	4	4	4	4	4	4	3	2	1	1	1	2	1	1	2	2	2	2	1.0	4.7	2.9
May 9	2	2	2	2	2	2	2	2	P	P	P	P	P	P	2	2	2	2	2	2	3	2	3	3	1.5	2.9	1.9
May 10	3	3	3	3	3	3	3	3	3	4	2	2	1	1	1	1	2	1	1	2	2	1	2	2	1.2	3.7	2.2
May 11	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	2	3	3	3	2	1	1	1	0.9	3.2	1.5
May 12	1	2	2	2	2	2	2	2	2	2	P	P	P	P	P	P	P	P	P	P	P	P	P	P	1.3	2.2	-
May 13	P	P	P	P	P	P	P	P	P	P	P	3	3	3	3	3	3	3	3	6	6	4	6	6	2.7	6.4	-
May 14	4	4	4	5	4	4	5	3	4	4	5	5	6	5	4	4	4	4	4	4	4	4	4	4	3.3	5.8	4.3
May 15	4	4	4	5	5	5	6	5	5	5	4	3	3	4	5	4	4	3	3	5	5	3	3	3	2.6	5.7	4.1
May 16	2	2	2	2	2	2	3	3	3	4	4	4	4	4	4	4	4	4	3	4	3	3	3	3	2.3	4.4	3.2
May 17	3	3	3	3	3	4	3	3	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	2.0	3.6	2.8
May 18	4	3	2	2	2	2	2	2	2	1	1	1	1	1	3	3	2	2	1	1	2	1	1	1	0.5	3.5	1.8
May 19	1	1	1	1	1	1	1	1	2	2	2	3	3	C	2	2	4	3	3	3	3	3	3	3	0.5	3.7	2.1
May 20	2	2	2	1	1	2	2	2	3	2	3	3	3	3	4	3	4	3	3	3	4	4	4	3	1.4	4.3	2.8
May 21	3	3	4	3	4	4	4	6	6	6	5	4	5	6	5	5	6	5	7	4	5	7	5	5	3.2	7.3	4.8
May 22	5	5	6	6	5	5	5	5	5	5	5	5	5	5	5	6	7	6	7	7	9	7	5	4	4.3	8.6	5.5
May 23	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	5	5	6	22	28	37	13	3.5	37.0	7.9
May 24	11	4	3	3	3	3	3	3	4	5	3	6	7	7	6	6	4	4	5	4	2	2	2	1	1.4	10.7	4.2
May 25	2	3	2	2	2	2	2	3	4	7	9	8	5	8	6	8	7	12	10	8	10	6	5	3	1.5	12.1	5.6
May 26	3	4	4	4	4	4	4	5	4	5	7	6	8	9	7	7	6	5	10	6	7	7	7	8	3.3	9.6	5.8
May 27	8	9	9	8	9	11	12	12	9	5	3	2	2	1	1	1	2	2	2	3	3	4	4	5	0.9	12.2	5.3
May 28	4	3	4	5	7	8	7	5	4	4	3	3	4	4	3	3	3	3	3	3	4	4	3	3	2.6	7.6	4.0
May 29	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	3.2	4.9	3.9
May 30	5	4	4	4	4	5	4	P	P	P	P	P	P	P	P	3	3	3	4	4	3	4	4	4	3.1	5.4	-
May 31	4	3	3	2	2	3	2	2	3	3	3	2	3	3	3	3	3	3	3	3	3	4	4	4	2.3	4.4	2.9
Diurnal Maximum	11	9	9	8	9	11	12	12	9	7	9	8	8	9	7	8	7	12	10	8	22	28	37	13			
Diurnal Average	3.4	3.2	3.2	3.2	3.3	3.5	3.4	3.3	3.5	3.4	3.5	3.3	3.4	3.5	3.4	3.5	3.5	3.6	3.8	3.7	4.6	4.6	4.6	3.6			

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 PM2.5 - AQHI - Cadotte Lake Station

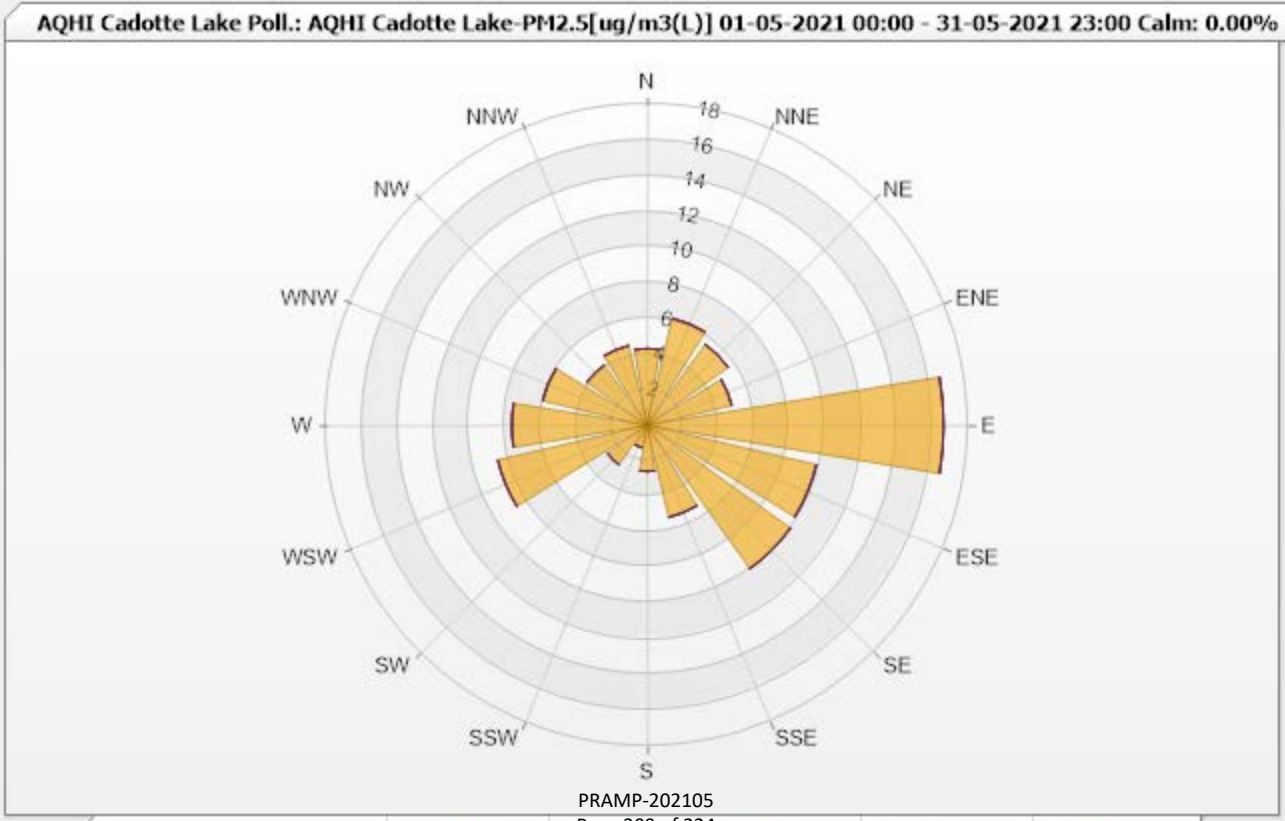




Classes	PM2.5
<=0	0.00%
0 - 10	98.42%
10 - 20	1.15%
20 - 30	0.29%
30 - 40	0.14%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-PM2.5[ug/m3(L)] Monthly: 05-2021 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 93.82% Calm Avg: 0.00 [ug/m3(L)]

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	4.3	0	0	0	0	4.3
NNE	6.16	0	0	0	0	6.16
NE	5.59	0	0	0	0	5.59
ENE	4.87	0	0	0	0	4.87
E	16.62	0	0	0	0	16.62
ESE	9.74	0	0	0	0	9.74
SE	9.89	0	0	0	0	9.89
SSE	5.3	0	0	0	0	5.3
S	2.58	0	0	0	0	2.58
SSW	1.29	0	0	0	0	1.29
SW	2.72	0	0	0	0	2.72
WSW	8.6	0	0	0	0	8.6
W	7.59	0	0	0	0	7.59
WNW	6.02	0	0	0	0	6.02
NW	4.15	0	0	0	0	4.15
NNW	4.58	0	0	0	0	4.58
Summary	100	0	0	0	0	100


AQHI Cadotte Lake Poll.: AQHI Cadotte Lake-PM2.5[ug/m3(L)] 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
% Icon Classes (ug/m3(L))
100 0-50
0 50-80
0 80-120
0 120-240
0 >240.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

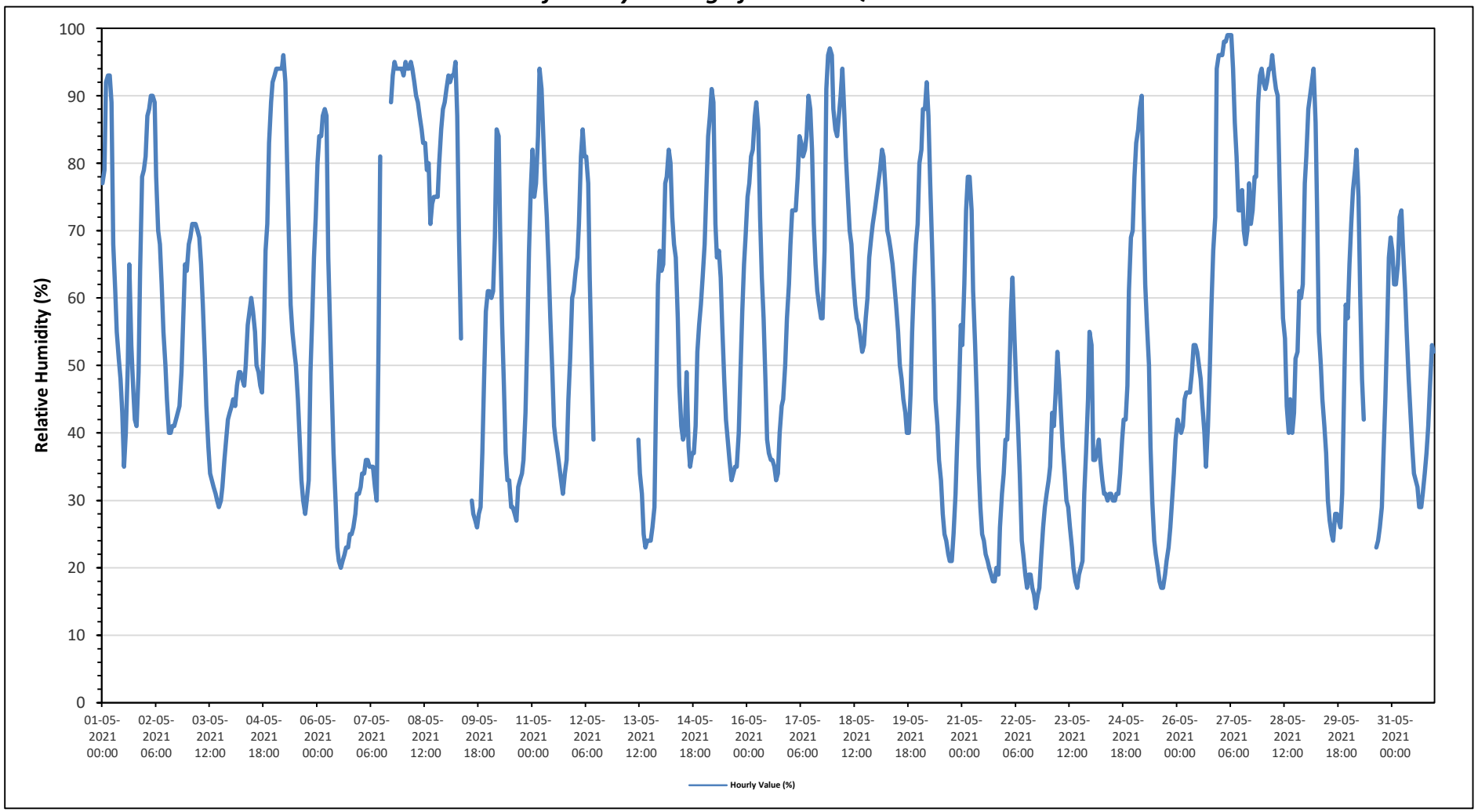
Maximum Hourly Value:	99	%	on May 27 at hour 4	Hours in Service:	744
Maximum Daily Value:	85.2	%	on May 8	Hours of Data:	704
Minimum Hourly Value:	14	%	on May 22 at hour 17	Hours of Missing Data:	40
Minimum Daily Value:	30.4	%	on May 22	Hours of Calibration:	0
Monthly Average:	55.8	%		Operational Uptime:	94.6

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
May 1	77	79	92	93	93	89	68	61	55	51	48	43	35	40	50	65	53	47	42	41	49	64	78	79	35	93	62.2
May 2	81	87	88	90	90	89	78	70	68	62	55	50	45	40	40	41	41	42	43	44	49	57	65	64	40	90	61.6
May 3	68	69	71	71	71	70	69	65	59	51	44	38	34	33	32	31	30	29	30	32	36	39	42	43	29	71	48.2
May 4	44	45	44	47	49	49	48	47	50	56	58	60	58	55	50	49	47	46	54	67	71	83	89	92	44	92	56.6
May 5	93	94	94	94	94	96	92	80	69	59	55	52	50	45	39	33	30	28	30	33	49	57	66	72	28	96	62.7
May 6	80	84	84	87	88	87	66	56	45	37	30	23	21	20	21	22	23	23	25	25	26	28	31	31	20	88	44.3
May 7	32	34	34	36	36	35	35	35	32	30	52	81	P	P	P	P	P	89	93	95	94	94	94	94	30	95	59.2
May 8	93	95	94	94	95	94	92	90	89	87	85	83	83	79	80	71	74	75	75	75	80	85	88	89	71	95	**85.2**
May 9	91	93	92	93	93	95	87	69	54	P	P	P	P	P	30	28	27	26	28	29	37	48	58	61	26	95	59.9
May 10	61	60	61	69	85	84	70	56	47	37	33	33	29	29	28	27	32	33	34	36	43	54	67	76	27	85	49.3
May 11	82	75	77	84	94	91	84	77	72	64	57	49	41	39	37	35	33	31	34	36	45	51	60	61	31	94	58.7
May 12	64	66	71	81	85	81	81	77	63	50	39	P	P	P	P	P	P	P	P	P	P	P	P	P	39	85	-
May 13	P	P	P	P	P	P	P	P	P	P	P	39	34	31	25	23	24	24	24	26	29	44	62	67	23	67	-
May 14	64	65	77	78	82	80	72	68	66	57	47	41	39	40	49	38	35	37	37	41	52	56	59	63	35	82	56.0
May 15	68	75	84	87	91	89	71	66	67	63	56	48	42	39	36	33	34	35	35	40	48	58	65	69	33	91	58.3
May 16	75	77	81	82	87	89	85	72	63	57	47	39	37	36	36	35	33	34	40	44	45	50	57	62	33	89	56.8
May 17	68	73	73	73	78	84	83	81	82	84	90	88	82	71	65	61	59	57	57	67	91	96	97	96	57	97	77.3
May 18	88	85	84	87	90	94	87	81	75	70	68	63	59	57	56	54	52	53	57	60	66	69	71	73	52	94	70.8
May 19	75	77	79	82	81	76	70	69	67	65	62	59	55	50	48	45	43	40	40	46	55	63	68	71	40	82	61.9
May 20	80	82	88	88	92	87	77	67	59	45	41	36	33	28	25	24	22	21	21	25	31	38	45	56	21	92	50.5
May 21	53	62	73	78	78	73	61	53	45	35	29	25	24	22	21	20	19	18	18	20	19	26	31	34	18	78	39.0
May 22	39	39	46	58	63	54	47	41	34	24	22	19	17	19	19	17	16	**14**	16	17	22	26	29	31	**14**	63	30.4
May 23	33	35	43	41	46	52	48	43	38	34	30	29	26	23	20	18	17	19	20	21	31	37	45	55	17	55	33.5
May 24	53	36	36	37	39	36	33	31	31	30	31	31	30	30	31	31	34	39	42	42	47	61	69	70	30	70	39.6
May 25	78	83	85	88	90	74	62	56	50	38	30	24	22	20	18	17	17	19	21	23	26	30	34	39	17	90	43.5
May 26	42	41	40	41	45	46	46	46	49	53	53	52	50	48	44	40	35	41	49	59	67	72	94	96	35	96	52.0
May 27	96	96	98	98	**99**	**99**	**99**	94	86	81	73	73	76	70	68	70	77	71	73	78	78	89	93	94	68	**99**	84.5
May 28	92	91	92	94	94	96	93	91	90	78	65	57	54	44	40	45	40	43	51	52	61	60	62	77	40	96	69.3
May 29	81	88	90	92	94	86	73	55	50	45	41	37	30	27	25	24	28	28	27	26	31	47	59	57	24	94	51.7
May 30	65	71	76	79	82	75	60	48	42	P	P	P	P	P	P	23	24	26	29	36	45	55	66	69	23	82	53.9
May 31	67	62	62	65	72	73	67	61	55	48	43	38	34	33	32	29	29	31	34	37	41	47	53	52	29	73	48.5
Diurnal Maximum	96	96	98	98	99	99	99	94	90	87	90	88	83	79	80	71	77	89	93	95	94	96	97	96			
Diurnal Average	69.4	70.6	73.6	76.2	79.2	77.4	70.1	63.5	58.4	53.3	49.4	46.8	42.2	39.6	38.0	36.2	35.4	37.3	39.3	42.4	48.8	56.1	63.2	66.4			

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 RH - AQHI - Cadotte Lake Station



peace river area monitoring program

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

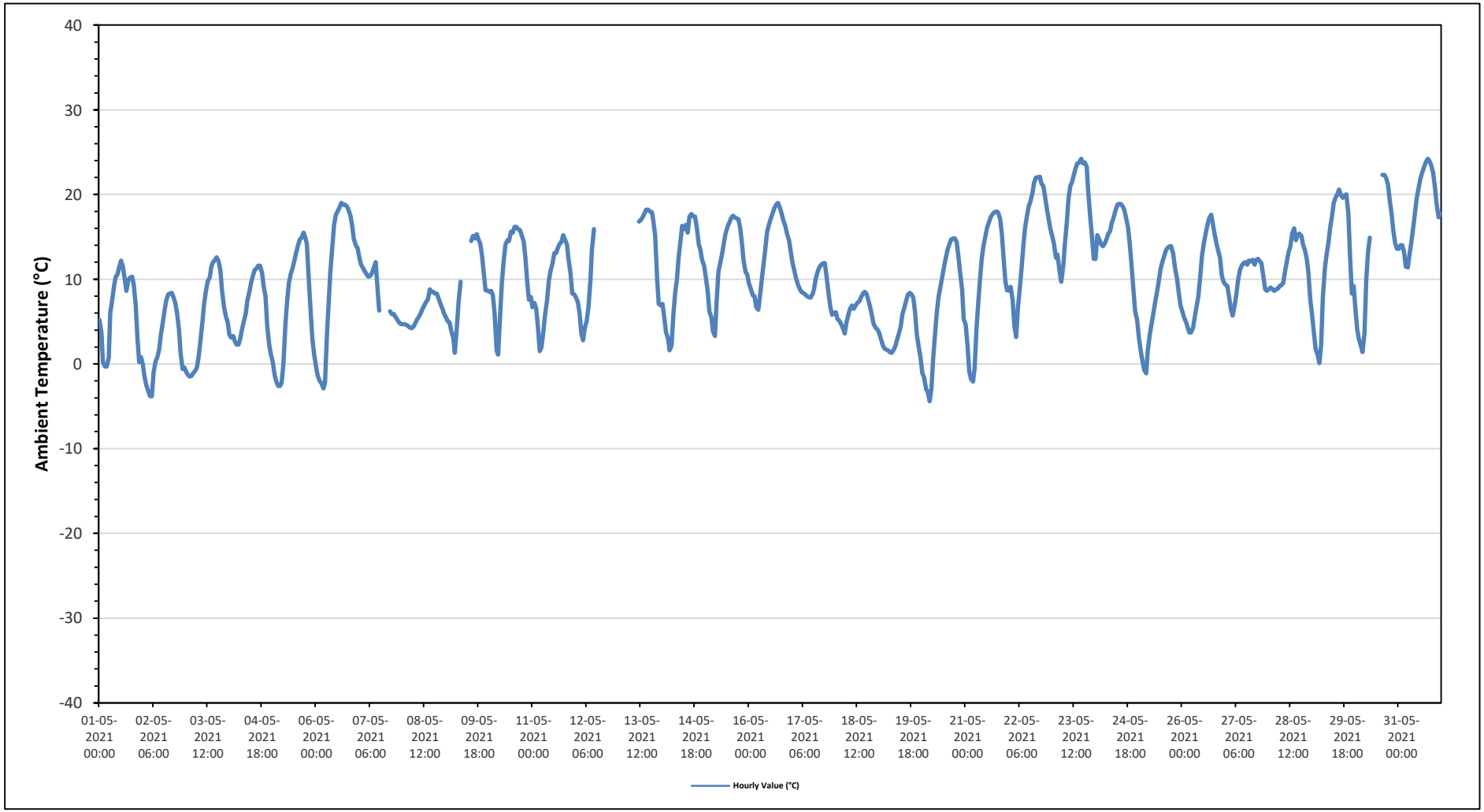
Maximum Hourly Value:	24.2	°C	on May 23 at hour 16	Hours in Service:	744
Maximum Daily Value:	18.3	°C	on May 31	Hours of Data:	704
Minimum Hourly Value:	-4.4	°C	on May 20 at hour 4	Hours of Missing Data:	40
Minimum Daily Value:	2.5	°C	on May 2	Hours of Calibration:	0
Monthly Average:	10.0	°C		Operational Uptime:	94.6

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			
May 1	5.2	3.7	0.2	-0.3	-0.3	0.7	6	7.6	9.2	10.3	10.6	11.5	12.2	11.5	9.9	8.6	9.9	10.2	10.3	9.4	7	3	0.2	0.8	-0.3	12.2	6.6
May 2	0	-1.5	-2.5	-3.2	-3.8	-3.8	-1	0.3	0.7	1.7	3.5	4.8	6.2	7.5	8.2	8.3	8.4	7.9	7.2	6	4	1.3	-0.6	-0.4	-3.8	8.4	2.5
May 3	-1	-1.3	-1.5	-1.4	-1.1	-0.8	-0.4	0.9	2.8	5	7	8.7	9.8	10.2	11.5	12	12.3	12.6	12.1	11	8.5	6.8	5.6	4.9	-1.5	12.6	5.6
May 4	3.4	3.1	3.3	2.7	2.3	2.3	2.9	4.1	5	6	7.5	8.5	9.6	10.4	11.1	11.3	11.6	11.6	10.8	9.1	8	4.4	2.2	1.2	1.2	11.6	6.4
May 5	0.2	-1.3	-2.1	-2.6	-2.6	-2.2	0	4.7	7.5	9.6	10.6	11.4	12.1	13.2	14	14.7	14.9	15.5	14.9	14.2	9.8	6.2	2.9	1.1	-2.6	15.5	6.9
May 6	-0.4	-1.4	-2	-2.3	-2.9	-2.2	3.6	7.4	10.8	13.8	16.4	17.6	18	18.5	19	18.8	18.8	18.6	18.2	17.5	16.3	14.8	14	13.7	-2.9	19.0	11.0
May 7	12.6	11.7	11.3	10.9	10.6	10.3	10.4	10.7	11.4	12	9.5	6.3	P	P	P	P	P	6.2	5.9	5.9	5.6	5.2	4.9	4.7	4.7	12.6	8.7
May 8	4.7	4.7	4.6	4.5	4.3	4.2	4.4	4.8	5.3	5.6	6	6.5	6.9	7.3	7.6	8.8	8.5	8.5	8.3	8.3	7.7	7	6.5	5.9	4.2	8.8	6.3
May 9	5.5	5	4.9	3.9	3.1	1.3	4.3	7.3	9.7	P	P	P	P	P	14.5	15.1	14.8	15.3	14.7	14.2	12.8	10.4	8.7	8.7	1.3	15.3	9.2
May 10	8.5	8.6	8.1	5.9	1.6	1.1	5.9	9.7	12.2	14.1	14.6	14.5	15.6	15.5	16.2	16.2	15.9	15.8	15.2	14.5	12.6	9.8	7.6	7.9	1.1	16.2	11.2
May 11	6.7	7.2	6.5	4.3	1.5	2	4	5.8	7.5	9.8	11	11.8	13.1	13.1	13.7	14.2	14.4	15.2	14.7	14.1	12.4	10.7	8.3	8.2	1.5	15.2	9.6
May 12	7.9	7.3	6	3.6	2.8	4.3	5	6.6	9.8	13.5	15.9	P	P	P	P	P	P	P	P	P	P	P	P	P	2.8	15.9	-
May 13	P	P	P	P	P	P	P	P	P	P	P	16.8	17	17.3	17.8	18.2	18.2	18	17.9	16.8	15.1	9.9	7.1	6.9	6.9	18.2	-
May 14	7.1	5.5	3.7	3	1.6	2.2	5.8	8.6	9.9	12.6	14.7	16.3	15.9	16.4	15.5	17.4	17.7	17.4	17.4	16.1	14.1	13.5	12.3	11.6	1.6	17.7	11.5
May 15	10.4	8.7	6.2	5.5	3.9	3.3	7.5	10.9	11.9	13.1	14.2	15.4	16.2	16.7	17.2	17.5	17.3	17.2	17.1	16.1	14.3	12.1	10.8	10.6	3.3	17.5	12.3
May 16	9.5	8.8	8.1	8	6.7	6.4	7.8	10	11.8	13.6	15.6	16.5	17.2	17.7	18.4	18.8	19	18.5	17.7	17	16.3	15.4	14.6	13.4	6.4	19.0	13.6
May 17	11.9	11	10.2	9.4	8.9	8.5	8.4	8.2	8	7.9	7.8	8.2	8.8	10.2	10.9	11.4	11.7	11.9	11.9	10.3	8.3	6.7	5.8	6	5.8	11.9	9.3
May 18	6.1	5.3	5.1	4.7	4.3	3.6	4.9	5.9	6.5	6.9	6.5	6.9	7.2	7.4	7.8	8.3	8.5	8.3	7.6	6.8	5.7	4.8	4.3	4.1	3.6	8.5	6.1
May 19	3.7	3	2.2	1.8	1.7	1.6	1.4	1.3	1.6	2.1	2.8	3.6	4.4	5.9	6.6	7.5	8.2	8.4	8.2	7.8	6.1	3.5	1.9	0.9	0.9	8.4	4.0
May 20	-1.1	-1.6	-3	-3.3	**-4.4**	-2.9	0.7	3.4	6	7.9	9	10.3	11.5	12.5	13.5	14.2	14.7	14.8	14.8	14.4	12.7	10.7	8.7	5.3	**-4.4**	14.8	7.0
May 21	4.6	2.2	-0.9	-1.8	-2.1	-0.6	4.3	7.3	10.1	12.6	14	15.2	16.1	16.8	17.4	17.7	17.9	18	17.9	17.2	15.5	12.6	9.8	8.7	-2.1	18.0	10.4
May 22	8.7	9.1	7.6	4.5	3.2	6.6	9.1	11.5	14.1	16.2	17.5	18.6	19.2	20.2	21.4	22	22	22.1	21.3	21	19.7	18.3	17.1	15.9	3.2	22.1	15.3
May 23	15.1	14.2	12.5	12.9	11	9.7	11.6	14	16.7	19.6	21	21.5	22.3	23.1	23.7	23.8	**24.2**	23.7	23.8	23.3	20.3	17.3	15	12.4	9.7	**24.2**	18.0
May 24	12.4	15.2	14.7	14.2	13.9	14.2	14.7	15.3	15.7	16.6	17.3	18.1	18.8	18.9	18.9	18.6	18.2	17.1	16.1	14.1	11.6	8.5	6.2	5.2	5.2	18.9	14.8
May 25	3.1	1.4	0.4	-0.7	-1.1	1.5	3.4	4.7	5.9	7.2	8.5	9.8	11.2	12	12.8	13.4	13.7	13.9	13.9	13	11.4	10.1	8.7	6.9	-1.1	13.9	7.7
May 26	6.2	5.5	5	4.3	3.7	3.7	4.3	5.6	6.8	8	10.5	12.7	14.3	15.4	16.4	17.2	17.6	16.6	15.4	14.2	13.3	12.5	10.4	9.6	3.7	17.6	10.4
May 27	9.4	9.2	7.9	6.5	5.7	6.9	8.3	9.8	11.1	11.6	11.9	12	11.7	12.2	12.1	12.3	11.7	12.3	12.4	12.1	11.9	10.3	8.8	8.6	5.7	12.4	10.3
May 28	8.8	9	8.8	8.6	8.8	8.9	9.2	9.3	9.6	10.8	12.1	13.2	13.9	15.4	16	14.6	15.2	15.4	15.1	14.1	13.4	12.4	10.9	7.6	7.6	16.0	11.7
May 29	5.8	3.5	1.8	1.1	0.1	2.2	8	11.3	12.8	14.3	16.1	17.4	19	19.6	20.1	20.6	19.9	19.6	19.9	20	17.8	12.5	8.3	9.2	0.1	20.6	12.5
May 30	6.5	4.1	2.9	2.1	1.4	3.6	9.9	13.2	14.9	P	P	P	P	P	P	22.3	22.3	22	21.2	19.4	17.6	15.8	14.2	13.6	1.4	22.3	12.6
May 31	13.6	14	14	13.2	11.5	11.4	13	14.4	16	18	19.5	20.8	21.9	22.6	23.2	23.8	**24.2**	24	23.4	22.6	21	18.9	17.3	17.8	11.4	**24.2**	**18.3**
Diurnal Maximum	15.1	15.2	14.7	14.2	13.9	14.2	14.7	15.3	16.7	19.6	21.0	21.5	22.3	23.1	23.7	23.8	24.2	24.0	23.8	23.3	21.0	18.9	17.3	17.8			
Diurnal Average	6.5	5.8	4.8	4.0	3.1	3.6	5.9	7.8	9.4	10.7	11.8	12.7	13.7	14.4	14.8	15.4	15.6	15.2	14.8	14.0	12.4	10.2	8.4	7.7			

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 - AQHI - Cadotte Lake Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

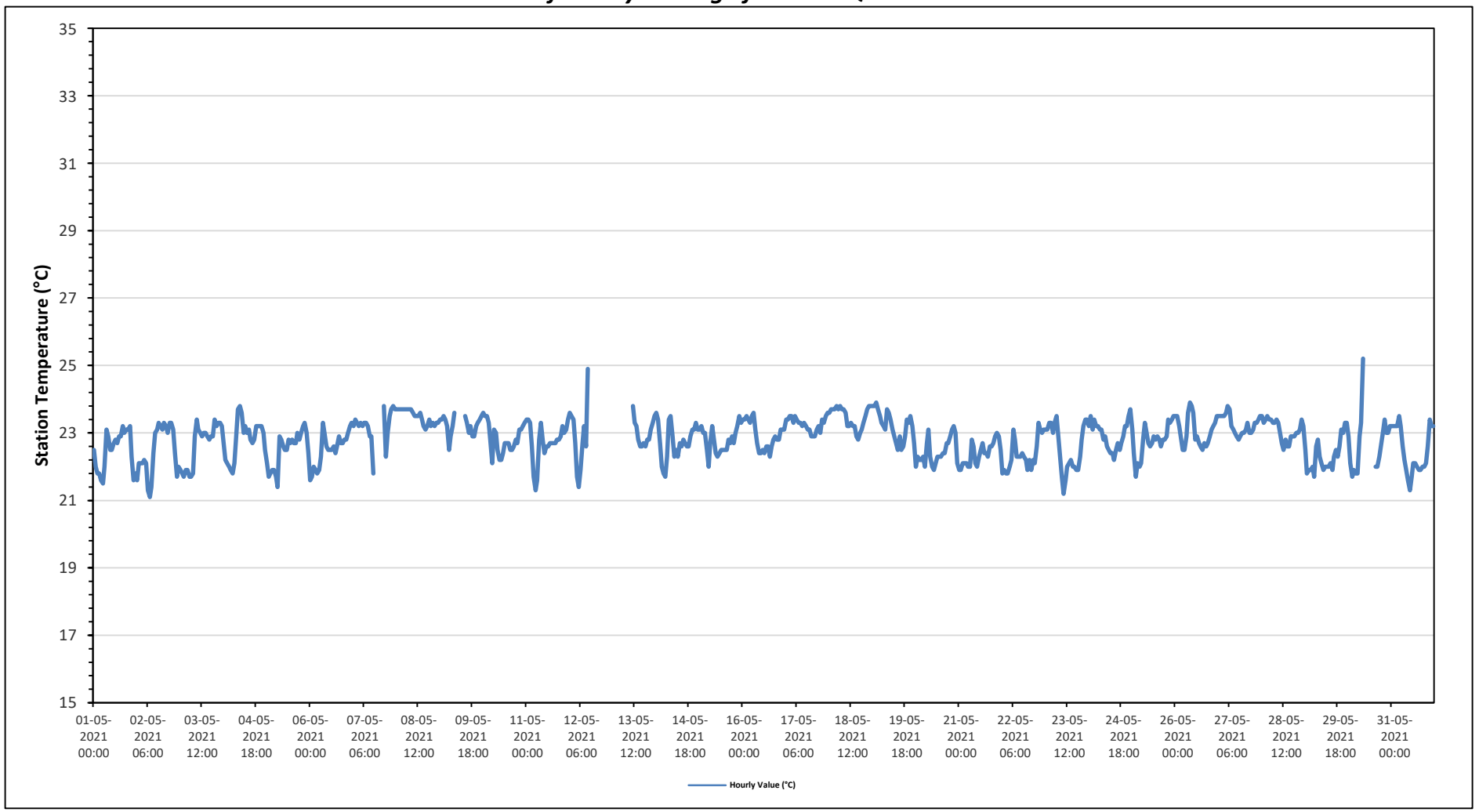
Maximum Hourly Value:	25.2	°C	on May 30 at hour 8	Hours in Service:	744
Maximum Daily Value:	23.5	°C	on May 8	Hours of Data:	704
Minimum Hourly Value:	21.1	°C	on May 2 at hour 7	Hours of Missing Data:	40
Minimum Daily Value:	22.3	°C	on May 29	Hours of Calibration:	0
Monthly Average:	22.8	°C		Operational Uptime:	94.6

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
May 1	22.5	22.0	21.8	21.8	21.6	21.5	22.0	23.1	22.9	22.5	22.5	22.7	22.8	22.7	22.9	22.9	23.2	23.0	23.1	23.1	23.2	22.3	21.6	21.8	21.5	23.2	22.5
May 2	21.6	22.1	22.1	22.1	22.2	22.1	21.3	**21.1**	21.4	22.4	23.0	23.1	23.3	23.2	23.1	23.3	23.2	23.0	23.3	23.3	23.1	22.4	21.7	22.0	**21.1**	23.3	22.5
May 3	21.9	21.8	21.7	21.9	21.9	21.7	21.7	21.8	22.9	23.4	23.1	23.0	22.9	23.0	23.0	22.9	22.8	22.9	22.9	23.4	23.2	23.3	23.3	23.2	21.7	23.4	22.7
May 4	22.7	22.2	22.1	22.0	21.9	21.8	22.1	23.0	23.7	23.8	23.6	23.0	23.2	23.0	23.1	22.8	22.7	22.8	23.2	23.2	23.2	23.2	23.0	22.5	21.8	23.8	22.8
May 5	22.1	21.7	21.8	21.9	21.9	21.7	21.4	22.9	22.8	22.6	22.5	22.5	22.8	22.7	22.8	22.7	22.7	23.0	22.8	23.0	23.2	23.3	23.0	22.4	21.4	23.3	22.5
May 6	21.6	21.7	22.0	21.9	21.8	21.9	22.3	23.3	23.0	22.6	22.5	22.5	22.5	22.6	22.4	22.6	22.9	22.7	22.7	22.8	22.8	23.0	23.2	23.3	21.6	23.3	22.5
May 7	23.2	23.4	23.3	23.2	23.3	23.2	23.3	23.3	23.2	22.9	22.9	21.8	**P**	**P**	**P**	**P**	**P**	23.8	22.3	23.0	23.5	23.7	23.8	23.7	21.8	23.8	23.2
May 8	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.6	23.5	23.5	23.5	23.6	23.4	23.2	23.1	23.2	23.4	23.2	23.3	23.2	23.3	23.3	23.1	23.7	**23.5**
May 9	23.4	23.4	23.5	23.4	23.2	22.5	22.9	23.2	23.6	**P**	**P**	**P**	**P**	**P**	23.5	23.3	23.0	23.2	22.9	22.9	23.2	23.3	23.4	23.5	22.5	23.6	23.2
May 10	23.6	23.5	23.5	23.3	22.8	22.1	23.1	23.0	22.5	22.2	22.2	22.4	22.7	22.7	22.7	22.5	22.5	22.6	22.8	22.7	23.1	23.1	23.2	23.3	22.1	23.6	22.8
May 11	23.4	23.4	23.3	22.6	21.7	21.3	21.6	22.8	23.3	22.8	22.4	22.6	22.6	22.7	22.7	22.7	22.7	22.8	22.8	22.9	23.2	23.0	23.1	23.4	21.3	23.4	22.7
May 12	23.6	23.5	23.4	22.7	21.7	21.4	21.9	22.7	23.2	22.6	24.9	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	21.4	24.9	-
May 13	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	23.8	23.3	23.2	22.8	22.6	22.6	22.7	22.6	22.8	22.8	23.1	23.3	23.5	22.6	23.8	-
May 14	23.6	23.4	22.7	22.0	21.8	21.7	22.3	23.4	23.5	22.9	22.3	22.5	22.3	22.7	22.6	22.8	22.7	22.6	22.6	22.9	23.1	23.1	23.3	23.1	21.7	23.6	22.7
May 15	23.1	23.2	23.0	23.0	22.5	22.0	22.7	23.2	22.8	22.4	22.3	22.4	22.5	22.5	22.5	22.5	22.8	22.7	22.9	22.7	23.0	23.2	23.5	23.3	22.0	23.5	22.8
May 16	23.4	23.4	23.5	23.4	23.3	23.5	23.6	23.1	22.7	22.4	22.4	22.5	22.4	22.6	22.6	22.3	22.6	22.8	22.9	22.8	22.8	23.1	23.1	23.1	22.3	23.6	22.9
May 17	23.4	23.4	23.5	23.5	23.3	23.5	23.4	23.3	23.3	23.2	23.3	23.2	23.1	23.1	22.9	22.9	22.9	23.1	23.2	23.0	23.4	23.3	23.5	23.6	22.9	23.6	23.3
May 18	23.6	23.7	23.7	23.7	23.8	23.7	23.8	23.7	23.7	23.6	23.2	23.2	23.3	23.2	23.2	22.9	22.8	23.0	23.1	23.3	23.5	23.7	23.8	23.8	22.8	23.8	23.5
May 19	23.8	23.8	23.9	23.7	23.5	23.3	23.2	23.1	23.7	23.6	23.4	23.1	22.9	22.7	22.5	22.9	22.5	22.6	22.9	23.4	23.3	23.5	23.2	22.7	22.5	23.9	23.2
May 20	22.0	22.3	22.2	22.2	22.3	22.0	22.7	23.1	22.3	22.0	21.9	22.1	22.3	22.3	22.3	22.4	22.4	22.7	22.7	22.9	23.1	23.2	23.0	22.1	21.9	23.2	22.4
May 21	21.9	21.9	22.1	22.1	22.1	22.0	22.0	22.8	22.6	22.1	22.0	22.3	22.5	22.7	22.4	22.4	22.3	22.6	22.6	22.7	22.9	23.0	22.9	22.5	21.9	23.0	22.4
May 22	21.8	21.9	21.8	21.8	22.0	22.2	23.1	22.8	22.3	22.3	22.3	22.4	22.3	22.2	21.9	22.2	21.9	22.2	22.1	22.6	23.3	23.1	23.0	23.1	21.8	23.3	22.4
May 23	23.1	23.1	23.3	23.3	23.0	23.3	23.5	22.9	22.3	21.7	21.2	21.6	22.0	22.1	22.2	22.0	22.0	21.9	21.9	22.3	22.8	23.2	23.4	23.4	21.2	23.5	22.6
May 24	23.2	23.5	23.1	23.4	23.2	23.2	23.1	23.1	22.8	22.9	22.6	22.5	22.4	22.4	22.2	22.5	22.7	22.5	22.7	22.9	23.2	23.2	23.5	23.7	22.2	23.7	22.9
May 25	23.1	22.4	21.7	22.1	22.0	22.1	22.8	23.3	23.0	22.7	22.6	22.7	22.9	22.8	22.9	22.8	22.6	22.8	22.8	22.9	23.4	23.3	23.4	23.5	21.7	23.5	22.8
May 26	23.5	23.5	23.2	22.9	22.5	22.5	22.9	23.6	23.9	23.8	23.6	22.8	22.9	22.7	22.6	22.5	22.7	22.6	22.7	22.9	23.1	23.2	23.3	23.5	22.5	23.9	23.1
May 27	23.5	23.5	23.5	23.5	23.6	23.8	23.7	23.2	23.1	23.0	22.9	22.8	22.9	23.0	23.0	23.1	23.3	23.0	23.0	23.1	23.3	23.3	23.4	23.5	22.8	23.8	23.3
May 28	23.5	23.3	23.4	23.5	23.4	23.4	23.3	23.3	23.4	23.3	23.0	22.7	22.5	22.8	22.6	22.6	22.9	22.9	22.9	23.0	23.0	23.1	23.4	23.2	22.5	23.5	23.1
May 29	22.5	21.8	21.9	21.9	22.0	21.7	22.6	22.8	22.3	22.1	21.9	22.0	22.0	22.0	22.1	21.9	22.3	22.5	22.3	22.6	23.1	23.0	23.3	23.3	21.7	23.3	22.3
May 30	22.9	22.1	21.7	21.9	21.8	21.8	22.9	23.3	**25.2**	**P**	**P**	**P**	**P**	**P**	**P**	22.0	22.0	22.3	22.6	23.0	23.4	23.0	23.0	23.2	21.7	**25.2**	22.7
May 31	23.2	23.2	23.2	23.2	23.5	23.2	22.6	22.2	21.9	21.6	21.3	21.7	22.1	22.1	22.0	21.9	21.9	22.0	22.0	22.1	22.6	23.4	23.2	23.2	21.3	23.5	22.5
Diurnal Maximum	23.8	23.8	23.9	23.7	23.8	23.8	23.8	23.7	25.2	23.8	24.9	23.8	23.5	23.6	23.5	23.3	23.3	23.8	23.4	23.4	23.5	23.7	23.8	23.8			
Diurnal Average	22.9	22.9	22.8	22.7	22.6	22.5	22.7	23.0	23.0	22.8	22.7	22.6	22.7	22.7	22.7	22.6	22.6	22.8	22.8	22.9	23.1	23.2	23.2	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)	**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 - AQHI - Cadotte Lake Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

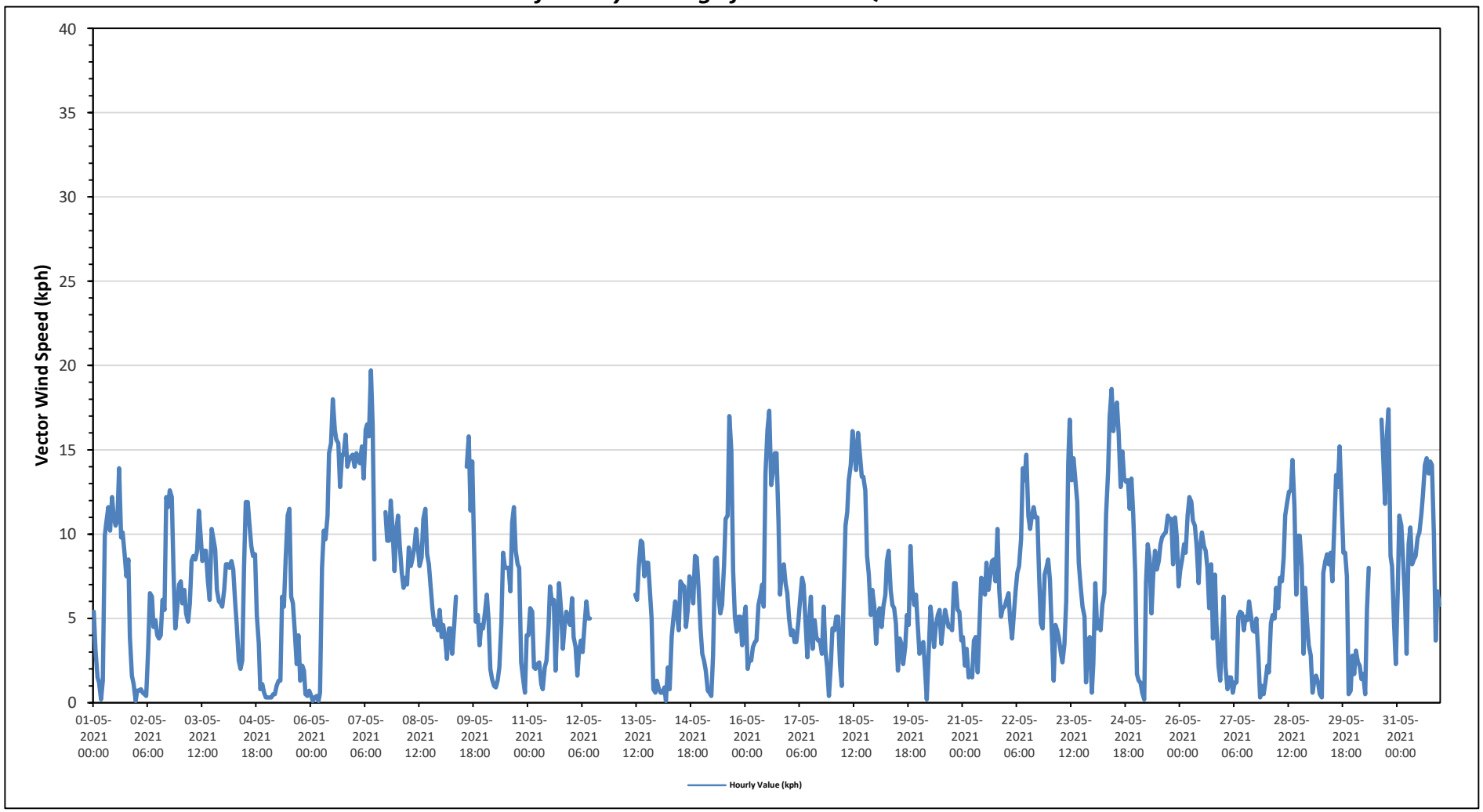
Maximum Hourly Value:	19.7	kph	on May 7 at hour 9	Hours in Service:	744
Maximum Daily Value:	12.8	kph	on May 7	Hours of Data:	704
Minimum Hourly Value:	0.1	kph	on May 1 at hour 23	Hours of Missing Data:	40
Minimum Daily Value:	1.3	kph	on May 27	Hours of Calibration:	0
Monthly Average:	1.3	kph		Operational Uptime:	94.6

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
May 1	5.4	3.1	1.5	1.2	0.2	1.3	9.9	10.7	11.6	10.2	12.2	11.1	10.5	10.8	13.9	9.8	10.1	8.8	7.5	8.5	3.9	1.6	1.1	**0.1**	**0.1**	13.9	5.5
May 2	0.7	0.7	0.8	0.6	0.5	0.4	3.2	6.5	6.3	4.5	4.9	4.0	3.8	4.0	6.1	5.5	12.2	11.6	12.6	12.2	7.8	4.4	5.5	7.0	0.4	12.6	3.9
May 3	7.2	5.9	6.7	5.3	4.8	5.9	8.4	8.7	8.5	9.0	11.4	9.9	8.4	9.0	9.0	7.2	6.1	10.3	9.8	9.1	6.7	6.0	5.9	5.7	4.8	11.4	7.5
May 4	6.7	8.2	8.2	8.0	8.4	7.9	5.9	4.6	2.5	2.0	2.5	8.0	11.9	11.9	10.5	9.3	8.7	8.8	5.2	3.5	0.8	1.1	0.6	0.3	0.3	11.9	4.6
May 5	0.3	0.3	0.3	0.5	0.5	1.0	1.3	1.3	6.3	5.7	8.5	11.1	11.5	6.3	5.9	4.1	2.3	4.0	1.3	2.2	1.9	0.5	0.4	0.7	0.3	11.5	2.3
May 6	0.4	**0.1**	0.3	0.4	**0.1**	0.6	8.0	10.2	9.7	11.1	14.8	15.4	18.0	16.2	15.6	15.4	12.8	14.7	14.7	15.9	14.0	14.4	14.6	14.7	**0.1**	18.0	10.1
May 7	14.0	14.8	14.4	14.2	15.2	13.3	16.2	16.5	15.8	**19.7**	16.4	8.5	**P**	**P**	**P**	**P**	**P**	11.3	9.6	9.6	12.0	10.4	7.8	10.2	7.8	**19.7**	**12.8**
May 8	11.1	9.3	7.7	6.8	7.4	7.0	9.2	8.1	8.5	9.2	10.3	9.1	8.1	8.6	10.9	11.5	8.8	8.2	6.9	5.6	4.6	4.9	4.3	5.5	4.3	11.5	7.2
May 9	3.9	4.6	3.8	2.6	4.4	4.4	2.9	4.6	6.3	**P**	**P**	**P**	**P**	**P**	14.0	15.8	11.4	14.3	9.4	4.8	5.2	3.4	4.6	4.4	2.6	15.8	4.1
May 10	5.4	6.4	4.9	2.0	1.4	1.0	0.9	1.3	2.1	4.7	8.9	8.0	8.0	8.0	6.6	10.7	11.6	9.0	8.2	8.0	2.4	1.5	0.6	4.0	0.6	11.6	2.3
May 11	4.0	5.6	5.4	2.1	2.0	2.3	2.4	1.1	0.8	2.1	2.5	4.5	6.9	5.9	6.1	1.9	4.7	7.1	5.5	3.2	4.7	5.4	4.9	4.6	0.8	7.1	2.0
May 12	6.2	3.9	3.3	1.6	3.1	3.7	3.0	4.7	6.0	5.0	5.0	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	1.6	6.2	-
May 13	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	6.4	6.1	8.1	9.6	9.5	7.5	8.3	8.3	6.9	5.0	0.8	0.6	1.3	0.6	9.6	-
May 14	0.8	0.6	0.6	0.9	**0.1**	2.1	0.8	3.9	4.9	6.0	5.3	4.3	7.2	7.0	6.9	4.5	5.5	7.5	7.0	5.9	8.7	8.6	6.6	4.4	**0.1**	8.7	3.9
May 15	2.9	2.5	1.9	0.7	0.6	0.4	2.8	8.5	8.6	6.3	5.3	5.8	8.2	10.9	11.1	17.0	14.9	7.8	5.1	4.2	5.1	5.1	3.4	4.9	0.4	17.0	3.6
May 16	5.7	2.0	2.5	2.5	3.3	3.6	3.7	5.8	6.3	7.0	5.7	13.6	16.2	17.3	12.9	13.6	14.8	14.8	10.7	6.4	8.0	8.2	7.1	6.5	2.0	17.3	5.6
May 17	5.0	4.0	4.3	3.6	3.6	4.8	6.1	7.4	7.0	5.0	2.7	4.8	6.3	3.2	4.9	3.9	3.7	3.7	2.9	5.7	3.1	2.1	0.4	2.4	0.4	7.4	2.0
May 18	4.4	4.3	5.1	5.1	2.3	1.0	6.0	10.5	11.3	13.2	14.1	16.1	14.8	13.8	16.0	14.8	13.4	13.4	12.6	8.7	7.6	5.2	6.7	5.7	1.0	16.1	9.1
May 19	3.5	5.3	5.6	4.5	5.7	6.4	8.4	9.0	6.7	5.8	5.6	4.7	1.9	3.8	3.5	2.3	3.3	5.2	4.6	9.3	6.8	5.8	6.4	4.6	1.9	9.3	3.9
May 20	2.9	3.3	3.6	2.0	0.2	3.1	5.7	4.8	3.3	4.5	5.2	5.5	3.5	4.5	5.5	5.0	4.5	4.5	4.3	7.1	7.1	5.5	5.4	3.7	0.2	7.1	4.0
May 21	3.9	2.2	3.2	1.5	1.9	1.5	3.7	3.9	1.8	4.1	7.4	7.3	6.4	8.3	6.7	7.5	8.4	8.5	7.2	10.3	6.7	5.1	5.6	5.7	1.5	10.3	4.8
May 22	6.1	6.5	5.0	3.8	5.2	6.6	7.7	8.1	9.7	13.9	13.2	14.7	11.1	10.3	11.1	11.6	11.0	11.0	7.5	4.7	4.4	7.6	8.0	8.5	3.8	14.7	8.3
May 23	7.3	4.0	1.3	4.6	4.3	3.8	2.9	2.4	3.5	6.0	14.2	16.8	13.2	14.5	13.3	11.9	8.3	6.8	5.7	5.1	1.2	3.7	3.9	0.6	0.6	16.8	4.2
May 24	2.3	7.1	4.4	4.9	4.3	5.8	6.5	11.2	13.7	16.9	18.6	16.1	17.4	17.8	16.0	12.8	14.9	13.3	13.1	13.2	11.5	13.3	11.2	7.7	2.3	18.6	11.3
May 25	1.7	1.3	1.2	0.6	0.2	7.1	9.4	8.6	5.3	7.6	9.0	7.9	8.4	9.4	9.8	10.0	10.1	11.1	10.9	10.9	8.2	11.0	9.8	6.9	0.2	11.1	6.9
May 26	7.9	8.5	9.4	8.9	11.1	12.2	11.9	10.8	10.5	9.3	7.1	9.2	10.1	9.3	9.0	8.0	5.6	8.2	3.8	7.6	4.7	2.2	1.3	4.0	1.3	12.2	7.2
May 27	6.3	2.1	0.8	1.5	1.5	0.6	1.2	1.2	5.1	5.4	5.3	4.3	5.1	4.9	6.0	5.1	4.3	4.2	5.0	2.8	0.3	1.0	0.5	1.2	0.3	6.3	**1.3**
May 28	2.2	1.8	4.7	5.2	5.0	6.8	5.6	7.4	7.2	8.6	11.1	11.9	12.5	12.6	14.4	11.6	6.4	9.9	9.9	8.1	2.9	6.8	4.8	3.4	1.8	14.4	6.8
May 29	2.8	0.6	1.4	1.6	1.2	0.5	0.3	7.7	8.4	8.8	8.2	8.9	7.2	10.6	13.5	12.8	15.2	11.9	8.9	8.9	7.5	0.5	0.7	2.8	0.3	15.2	5.7
May 30	1.7	3.1	2.4	2.2	1.4	1.7	0.5	5.5	8.0	**P**	**P**	**P**	**P**	**P**	**P**	16.8	14.5	11.8	15.8	17.4	8.7	8.1	4.7	2.3	0.5	17.4	5.4
May 31	6.8	11.1	10.5	8.5	6.0	2.9	9.4	10.4	8.2	8.5	8.7	9.8	10.1	11.2	12.3	14.1	14.5	13.6	14.3	14.1	9.9	3.7	6.6	5.8	2.9	14.5	9.4
Diurnal Maximum	14	15	14	14	15	13	16	17	16	20	19	17	18	18	16	17	15	15	16	17	14	14	15	15			
Diurnal Average	4.7	4.4	4.2	3.6	3.5	4.0	5.5	6.8	7.1	7.9	8.7	9.2	9.4	9.6	10.0	9.8	9.3	9.5	8.3	8.0	6.0	5.3	4.8	4.7			

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)			

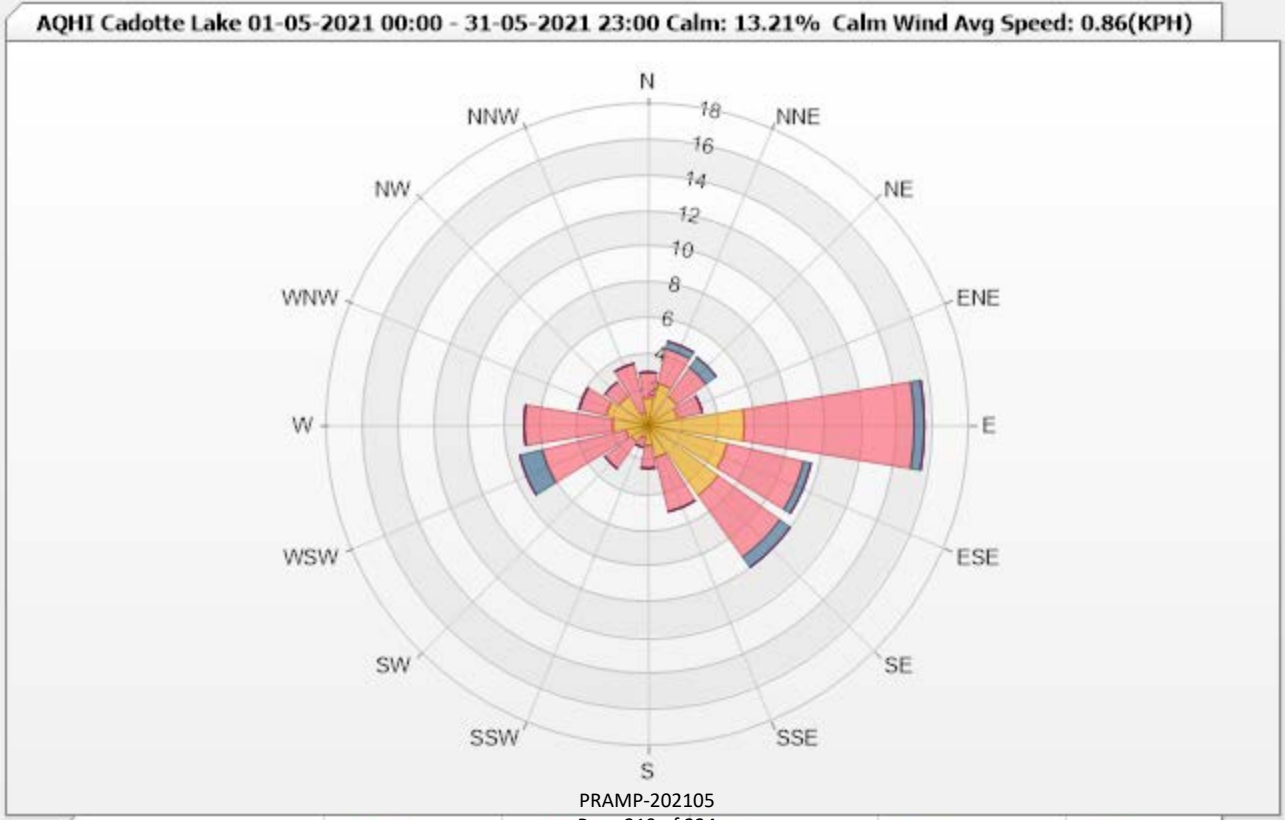
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

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



Wind: AQHI Cadotte Lake Monitor: WDS [KPH] Monthly: 05-2021 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 13.21% Valid Data: 94.62%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.56	1.42	0	0	0	2.98
NNE	2.41	1.99	0.43	0	0	4.83
NE	1.99	1.99	0.71	0	0	4.69
ENE	1.7	1.42	0	0	0	3.12
E	5.4	9.52	0.57	0	0	15.49
ESE	4.55	4.4	0.43	0	0	9.38
SE	4.83	4.26	0.71	0	0	9.8
SSE	1.85	3.13	0	0	0	4.98
S	1.14	1.28	0	0	0	2.42
SSW	0.71	0.57	0	0	0	1.28
SW	1.14	1.85	0	0	0	2.99
WSW	1.28	4.83	1.28	0	0	7.39
W	1.99	4.97	0	0	0	6.96
WNW	2.41	1.56	0	0	0	3.97
NW	1.99	0.99	0	0	0	2.98
NNW	0.71	2.84	0	0	0	3.55
Summary	35.66	47.02	4.13	0	0	86.81


AQHI Cadotte Lake 01-05-2021 00:00 - 31-05-2021 23:00 Calm: 13.21% Calm Wind Avg Speed: 0.86(KPH)
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
18
16
14
12
10
8
6
% Icon Classes (KPH)
36 1.8-6.0
47 6.0-15.0
4 15.0-29.0
0 29.0-39.0
0 >39.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

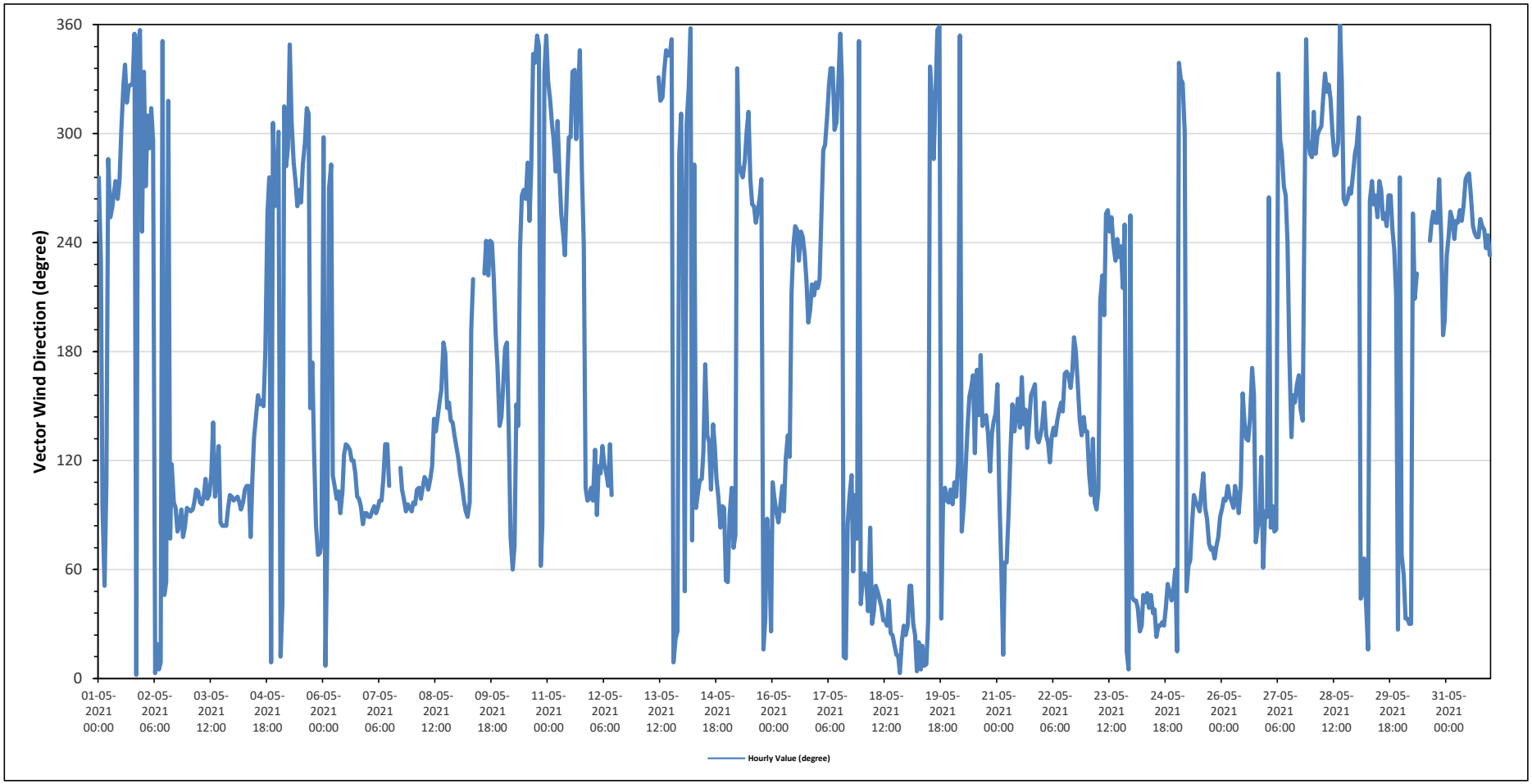
Monthly Average:	110 (ESE)	degree	
Hours in Service:	744		
Hours of Data:	704		
Hours of Missing Data:	40		
Hours of Calibration:	0		
Operational Uptime:	94.6		

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
May 1	W	SW	E	NE	ESE	WNW	WSW	WSW	W	W	W	W	WNW	NW	NNW	NW	NW	NW	NW	N	N	NNW	N	WSW	300	WNW
May 2	NNW	W	NW	WNW	NW	WNW	N	NNE	N	N	N	NE	NE	NW	ENE	ESE	E	E	E	E	E	ENE	E	E	68	ENE
May 3	E	E	E	E	ESE	ESE	E	E	E	ESE	E	E	ESE	SE	E	ESE	SE	E	E	E	E	E	E	E	100	E
May 4	E	E	E	E	E	E	ESE	ESE	ESE	ENE	ESE	SE	SE	SSE	SSE	SSE	SSE	S	WSW	W	N	NW	WSW	W	129	SE
May 5	WNW	NNE	NE	NW	W	WNW	NNW	NW	WNW	W	WSW	W	W	W	WNW	NW	NW	SSE	S	ESE	E	ENE	ENE	ENE	275	W
May 6	WNW	N	ENE	W	W	ESE	ESE	E	ESE	E	ESE	ESE	SE	SE	SE	ESE	ESE	ESE	E	E	E	E	E	E	108	ESE
May 7	E	E	E	E	E	E	E	E	ESE	SE	SE	ESE	P	P	P	P	P	ESE	ESE	E	E	E	E	E	102	E
May 8	E	E	ESE	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SSE	SSE	S	S	SSE	SSE	SE	SE	SE	SE	128	SE
May 9	ESE	ESE	ESE	E	E	E	E	S	SW	P	P	P	P	P	SW	WSW	SW	WSW	WSW	SW	S	S	SE	SE	202	SSW
May 10	SSE	S	S	SE	ENE	ENE	ENE	SSE	SE	SW	W	W	W	WNW	WSW	W	NNW	NNW	N	NNW	ENE	E	NNW	N	291	WNW
May 11	NNW	NW	WNW	WNW	W	NW	W	WSW	WSW	SW	W	WNW	WNW	NNW	NNW	WNW	NW	NNW	W	WSW	ESE	E	E	ESE	315	NW
May 12	E	SE	E	ESE	ESE	SE	ESE	ESE	ESE	SE	E	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-
May 13	P	P	P	P	P	P	P	P	P	P	P	NNW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	WNW	NW	-	-
May 14	SW	NE	WNW	NW	N	ENE	W	E	E	ESE	ESE	SE	S	SE	SE	ESE	SE	SE	ESE	E	E	E	E	NE	111	ESE
May 15	NE	E	ESE	ENE	ENE	NNW	W	W	W	WNW	WNW	NW	W	W	WSW	WSW	WSW	W	W	NNE	NNE	E	ENE	NNE	280	W
May 16	ESE	E	E	E	E	ESE	E	ESE	SE	ESE	SSW	SW	WSW	WSW	SW	WSW	WSW	SW	SW	SSW	SSW	SW	SSW	SW	216	SW
May 17	SSW	SW	WSW	WNW	WNW	NW	NW	NNW	NNW	WNW	NW	NNW	N	NNW	NNE	NNE	E	E	ESE	ENE	E	ENE	N	NE	340	NNW
May 18	NE	ENE	NE	NE	E	NNE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	33	NNE
May 19	NNE	NE	NE	NNE	NNE	N	NNE	N	NNE	N	N	NNE	NNW	NW	WNW	NW	N	N	NNE	E	ESE	E	E	ESE	33	NNE
May 20	E	ESE	E	ESE	N	E	E	ESE	SE	SSE	SSE	SSE	ESE	SSE	SE	S	SE	SE	SE	SE	ESE	SE	SE	SE	135	SE
May 21	SSE	ESE	ENE	NNE	ENE	ENE	E	SE	SSE	SE	SE	SSE	SE	SSE	SE	SE	SE	SE	SSE	SSE	SSE	SE	SE	SE	140	SE
May 22	SE	SSE	SE	SE	ESE	SE	SE	SE	SE	SE	SSE	SE	SSE	SSE	SSE	SSE	SSE	S	S	SSE	SE	SE	SE	SE	152	SSE
May 23	SE	ESE	E	SE	E	E	E	SSW	SW	SSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	SSW	WSW	NNE	N	WSW	232	SW
May 24	NE	NE	NE	NE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	ENE	39	NE
May 25	NNE	NNW	NNW	NNW	WNW	NE	ENE	ENE	E	E	E	E	E	E	ESE	E	E	ENE	ENE	ENE	ENE	ENE	ENE	E	81	E
May 26	E	E	E	ESE	E	E	E	ESE	E	E	ESE	SSE	SE	SE	SE	SE	S	SSE	ENE	E	E	ESE	ENE	E	111	ESE
May 27	E	W	E	E	E	E	NNW	WNW	WNW	W	W	WSW	S	SE	SSE	SSE	SSE	SSE	SE	SE	WSW	N	WNW	WNW	178	S
May 28	WNW	NW	WNW	WNW	WNW	WNW	NW	NNW	NW	NW	NW	WNW	WNW	WNW	WNW	N	NNW	W	W	W	W	W	W	WNW	299	WNW
May 29	WNW	NW	NE	NE	ENE	NE	NNE	W	W	W	W	WSW	W	W	WSW	WSW	WSW	W	W	WSW	SW	SSW	NNE	W	261	W
May 30	ENE	ENE	NNE	NNE	NNE	NNE	WSW	SSW	SW	P	P	P	P	P	P	WSW	WSW	WSW	WSW	WSW	W	WSW	S	SSW	247	WSW
May 31	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	252	WSW

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 - AQHI - Cadotte Lake Station



peace river area monitoring program
pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	19.7	kph	on May 7 at hour 9	Hours in Service:	744
Maximum Daily Value:	12.8	kph	on May 7	Hours of Data:	704
Minimum Hourly Value:	0.1	kph	on May 1 at hour 23	Hours of Missing Data:	40
Minimum Daily Value:	1.3	kph	on May 27	Hours of Calibration:	0
Monthly Average:	1.3	kph		Operational Uptime:	94.6

WIND DIRECTION

Monthly Average: 110 (ESE) 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			
May 1	5.4	3.1	1.5	1.2	0.2	1.3	9.9	10.7	11.6	10.2	12.2	11.1	10.5	10.8	13.9	9.8	10.1	8.8	7.5	8.5	3.9	1.6	1.1	**0.1**	**0.1**	13.9	5.5
	W	SW	E	NE	ESE	WNW	WSW	WSW	W	W	W	W	WNW	NW	NNW	NW	NW	NW	NW	N	N	NNW	N	WSW			
May 2	0.7	0.7	0.8	0.6	0.5	0.4	3.2	6.5	6.3	4.5	4.9	4.0	3.8	4.0	6.1	5.5	12.2	11.6	12.6	12.2	7.8	4.4	5.5	7.0	0.4	12.6	3.9
	NNW	W	NW	WNW	NW	WNW	N	NNE	N	N	N	NE	NE	NW	ENE	ESE	E	E	E	E	E	ENE	E	E			
May 3	7.2	5.9	6.7	5.3	4.8	5.9	8.4	8.7	8.5	9.0	11.4	9.9	8.4	9.0	9.0	7.2	6.1	10.3	9.8	9.1	6.7	6.0	5.9	5.7	4.8	11.4	7.5
	E	E	E	E	ESE	ESE	E	E	E	ESE	E	E	ESE	SE	E	ESE	SE	E	E	E	E	E	E	E			
May 4	6.7	8.2	8.2	8.0	8.4	7.9	5.9	4.6	2.5	2.0	2.5	8.0	11.9	11.9	10.5	9.3	8.7	8.8	5.2	3.5	0.8	1.1	0.6	0.3	0.3	11.9	4.6
	E	E	E	E	E	E	ESE	ESE	ESE	ENE	ESE	SE	SE	SSE	SSE	SSE	SSE	S	WSW	W	N	NW	WSW	W			
May 5	0.3	0.3	0.3	0.5	0.5	1.0	1.3	1.3	6.3	5.7	8.5	11.1	11.5	6.3	5.9	4.1	2.3	4.0	1.3	2.2	1.9	0.5	0.4	0.7	0.3	11.5	2.3
	WNW	NNE	NE	NW	W	WNW	NNW	NW	WNW	W	WSW	W	W	W	WNW	NW	NW	SSE	S	ESE	E	ENE	ENE	ENE			
May 6	0.4	**0.1**	0.3	0.4	**0.1**	0.6	8.0	10.2	9.7	11.1	14.8	15.4	18.0	16.2	15.6	15.4	12.8	14.7	14.7	15.9	14.0	14.4	14.6	14.7	**0.1**	18.0	10.1
	WNW	N	ENE	W	W	ESE	ESE	E	ESE	E	ESE	ESE	SE	SE	SE	ESE	ESE	ESE	E	E	E	E	E	E			
May 7	14.0	14.8	14.4	14.2	15.2	13.3	16.2	16.5	15.8	**19.7**	16.4	8.5	**P**	**P**	**P**	**P**	**P**	11.3	9.6	9.6	12.0	10.4	7.8	10.2	7.8	**19.7**	**12.8**
	E	E	E	E	E	E	E	E	ESE	SE	SE	ESE	**P**	**P**	**P**	**P**	**P**	ESE	ESE	E	E	E	E	E			
May 8	11.1	9.3	7.7	6.8	7.4	7.0	9.2	8.1	8.5	9.2	10.3	9.1	8.1	8.6	10.9	11.5	8.8	8.2	6.9	5.6	4.6	4.9	4.3	5.5	4.3	11.5	7.2
	E	E	ESE	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SSE	SSE	S	S	SSE	SSE	SE	SE	SE	SE			
May 9	3.9	4.6	3.8	2.6	4.4	4.4	2.9	4.6	6.3	**P**	**P**	**P**	**P**	**P**	14.0	15.8	11.4	14.3	9.4	4.8	5.2	3.4	4.6	4.4	2.6	15.8	4.1
	ESE	ESE	ESE	E	E	E	E	S	SW	**P**	**P**	**P**	**P**	**P**	SW	WSW	SW	WSW	WSW	SW	S	S	SE	SE			
May 10	5.4	6.4	4.9	2.0	1.4	1.0	0.9	1.3	2.1	4.7	8.9	8.0	8.0	8.0	6.6	10.7	11.6	9.0	8.2	8.0	2.4	1.5	0.6	4.0	0.6	11.6	2.3
	SSE	S	S	SE	ENE	ENE	ENE	SSE	SE	SW	W	W	W	WNW	WSW	W	NNW	NNW	N	NNW	ENE	E	NNW	N			
May 11	4.0	5.6	5.4	2.1	2.0	2.3	2.4	1.1	0.8	2.1	2.5	4.5	6.9	5.9	6.1	1.9	4.7	7.1	5.5	3.2	4.7	5.4	4.9	4.6	0.8	7.1	2.0
	NNW	NW	WNW	WNW	W	NW	W	WSW	WSW	SW	W	WNW	WNW	NNW	NNW	WNW	NW	NNW	W	WSW	ESE	E	E	ESE			
May 12	6.2	3.9	3.3	1.6	3.1	3.7	3.0	4.7	6.0	5.0	5.0	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	1.6	6.2	-
	E	SE	E	ESE	ESE	SE	ESE	ESE	ESE	SE	E	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**			
May 13	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	6.4	6.1	8.1	9.6	9.5	7.5	8.3	8.3	6.9	5.0	0.8	0.6	1.3	0.6	9.6	-
	P	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	NNW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	WNW	NW			
May 14	0.8	0.6	0.6	0.9	**0.1**	2.1	0.8	3.9	4.9	6.0	5.3	4.3	7.2	7.0	6.9	4.5	5.5	7.5	7.0	5.9	8.7	8.6	6.6	4.4	**0.1**	8.7	3.9
	SW	NE	WNW	NW	N	ENE	W	E	E	ESE	ESE	SE	S	SE	SE	ESE	SE	SE	ESE	E	E	E	E	NE			
May 15	2.9	2.5	1.9	0.7	0.6	0.4	2.8	8.5	8.6	6.3	5.3	5.8	8.2	10.9	11.1	17.0	14.9	7.8	5.1	4.2	5.1	5.1	3.4	4.9	0.4	17.0	3.6
	NE	E	ESE	ENE	ENE	NNW	W	W	W	WNW	WNW	NW	W	W	WSW	WSW	WSW	W	W	NNE	NNE	E	ENE	NNE			
May 16	5.7	2.0	2.5	2.5	3.3	3.6	3.7	5.8	6.3	7.0	5.7	13.6	16.2	17.3	12.9	13.6	14.8	14.8	10.7	6.4	8.0	8.2	7.1	6.5	2.0	17.3	5.6
	ESE	E	E	E	E	ESE	E	ESE	SE	ESE	SSW	SW	WSW	WSW	SW	WSW	WSW	SW	SW	SSW	SSW	SW	SSW	SW			
May 17	5.0	4.0	4.3	3.6	3.6	4.8	6.1	7.4	7.0	5.0	2.7	4.8	6.3	3.2	4.9	3.9	3.7	3.7	2.9	5.7	3.1	2.1	0.4	2.4	0.4	7.4	2.0
	SSW	SW	WSW	WNW	WNW	NW	NW	NNW	NNW	WNW	NW	NNW	N	NNW	NNE	NNE	E	E	ESE	ENE	E	ENE	N	NE			
May 18	4.4	4.3	5.1	5.1	2.3	1.0	6.0	10.5	11.3	13.2	14.1	16.1	14.8	13.8	16.0	14.8	13.4	13.4	12.6	8.7	7.6	5.2	6.7	5.7	1.0	16.1	9.1
	NE	ENE	NE	NE	E	NNE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE			
May 19	3.5	5.3	5.6	4.5	5.7	6.4	8.4	9.0	6.7	5.8	5.6	4.7	1.9	3.8	3.5	2.3	3.3	5.2	4.6	9.3	6.8	5.8	6.4	4.6	1.9	9.3	3.9
	NNE	NE	NE	NNE	NNE	N	NNE	N	NNE	N	N	NNE	NNW	NW	WNW	NW	N	N	NNE	E	ESE	E	E	ESE			
May 20	2.9	3.3	3.6	2.0	0.2	3.1	5.7	4.8	3.3	4.5	5.2	5.5	3.5	4.5	5.5	5.0	4.5	4.5	4.3	7.1	7.1	5.5	5.4	3.7	0.2	7.1	4.0
	E	ESE	E	ESE	N	E	E	ESE	SE	SSE	SSE	SSE	ESE	SSE	SE	S	SE	SE	SE	SE	ESE	SE	SE	SE			

peace river area monitoring program
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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Cadotte Lake Station - May 2021

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	19.7	kph	on May 7 at hour 9	Hours in Service:	744
Maximum Daily Value:	12.8	kph	on May 7	Hours of Data:	704
Minimum Hourly Value:	0.1	kph	on May 1 at hour 23	Hours of Missing Data:	40
Minimum Daily Value:	1.3	kph	on May 27	Hours of Calibration:	0
Monthly Average:	1.3	kph		Operational Uptime:	94.6

WIND DIRECTION

Monthly Average: 110 (ESE) 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			
May 21	3.9	2.2	3.2	1.5	1.9	1.5	3.7	3.9	1.8	4.1	7.4	7.3	6.4	8.3	6.7	7.5	8.4	8.5	7.2	10.3	6.7	5.1	5.6	5.7	1.5	10.3	4.8
	SSE	ESE	ENE	NNE	ENE	ENE	E	SE	SSE	SE	SE	SSE	SE	SSE	SE	SE	SE	SE	SSE	SSE	SSE	SE	SE	SE			
May 22	6.1	6.5	5.0	3.8	5.2	6.6	7.7	8.1	9.7	13.9	13.2	14.7	11.1	10.3	11.1	11.6	11.0	11.0	7.5	4.7	4.4	7.6	8.0	8.5	3.8	14.7	8.3
	SE	SSE	SE	SE	ESE	SE	SE	SE	SE	SE	SSE	SE	SSE	SSE	SSE	SSE	SSE	S	S	SSE	SE	SE	SE	SE			
May 23	7.3	4.0	1.3	4.6	4.3	3.8	2.9	2.4	3.5	6.0	14.2	16.8	13.2	14.5	13.3	11.9	8.3	6.8	5.7	5.1	1.2	3.7	3.9	0.6	0.6	16.8	4.2
	SE	ESE	E	SE	E	E	ESE	SSW	SW	SSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	SSW	WSW	NNE	N	WSW			
May 24	2.3	7.1	4.4	4.9	4.3	5.8	6.5	11.2	13.7	16.9	18.6	16.1	17.4	17.8	16.0	12.8	14.9	13.3	13.1	13.2	11.5	13.3	11.2	7.7	2.3	18.6	11.3
	NE	NE	NE	NE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	ENE			
May 25	1.7	1.3	1.2	0.6	0.2	7.1	9.4	8.6	5.3	7.6	9.0	7.9	8.4	9.4	9.8	10.0	10.1	11.1	10.9	10.9	8.2	11.0	9.8	6.9	0.2	11.1	6.9
	NNE	NNW	NNW	NNW	WNW	NE	ENE	ENE	E	E	E	E	E	E	ESE	E	E	ENE	ENE	ENE	ENE	ENE	ENE	E			
May 26	7.9	8.5	9.4	8.9	11.1	12.2	11.9	10.8	10.5	9.3	7.1	9.2	10.1	9.3	9.0	8.0	5.6	8.2	3.8	7.6	4.7	2.2	1.3	4.0	1.3	12.2	7.2
	E	E	E	ESE	E	E	E	ESE	E	E	ESE	SSE	SE	SE	SE	SE	S	SSE	ENE	E	E	ESE	ENE	E			
May 27	6.3	2.1	0.8	1.5	1.5	0.6	1.2	1.2	5.1	5.4	5.3	4.3	5.1	4.9	6.0	5.1	4.3	4.2	5.0	2.8	0.3	1.0	0.5	1.2	0.3	6.3	**1.3**
	E	W	E	E	E	E	NNW	WNW	WNW	W	W	WSW	S	SE	SSE	SSE	SSE	SSE	SE	SE	WSW	N	WNW	WNW			
May 28	2.2	1.8	4.7	5.2	5.0	6.8	5.6	7.4	7.2	8.6	11.1	11.9	12.5	12.6	14.4	11.6	6.4	9.9	9.9	8.1	2.9	6.8	4.8	3.4	1.8	14.4	6.8
	WNW	NW	WNW	WNW	WNW	WNW	NW	NNW	NW	NW	NW	WNW	WNW	WNW	WNW	N	NNW	W	W	W	W	W	W	WNW			
May 29	2.8	0.6	1.4	1.6	1.2	0.5	0.3	7.7	8.4	8.8	8.2	8.9	7.2	10.6	13.5	12.8	15.2	11.9	8.9	8.9	7.5	0.5	0.7	2.8	0.3	15.2	5.7
	WNW	NW	NE	NE	ENE	NE	NNE	W	W	W	W	WSW	W	W	WSW	WSW	WSW	W	W	WSW	SW	SSW	NNE	W			
May 30	1.7	3.1	2.4	2.2	1.4	1.7	0.5	5.5	8.0	**P**	**P**	**P**	**P**	**P**	**P**	16.8	14.5	11.8	15.8	17.4	8.7	8.1	4.7	2.3	0.5	17.4	5.4
	ENE	ENE	NNE	NNE	NNE	NNE	WSW	SSW	SW	**P**	**P**	**P**	**P**	**P**	**P**	WSW	WSW	WSW	WSW	WSW	W	WSW	S	SSW			
May 31	6.8	11.1	10.5	8.5	6.0	2.9	9.4	10.4	8.2	8.5	8.7	9.8	10.1	11.2	12.3	14.1	14.5	13.6	14.3	14.1	9.9	3.7	6.6	5.8	2.9	14.5	9.4
	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW			

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.

END OF REPORT

This page, 224 of 224, ends the May 2021 Monthly Ambient Air Quality Monitoring Report.

Peace River Area Monitoring Program

MAY 2021

Ambient Air Monitoring Calibration Report

- 842b STATION-

CAL-PRAMP-202105-01561

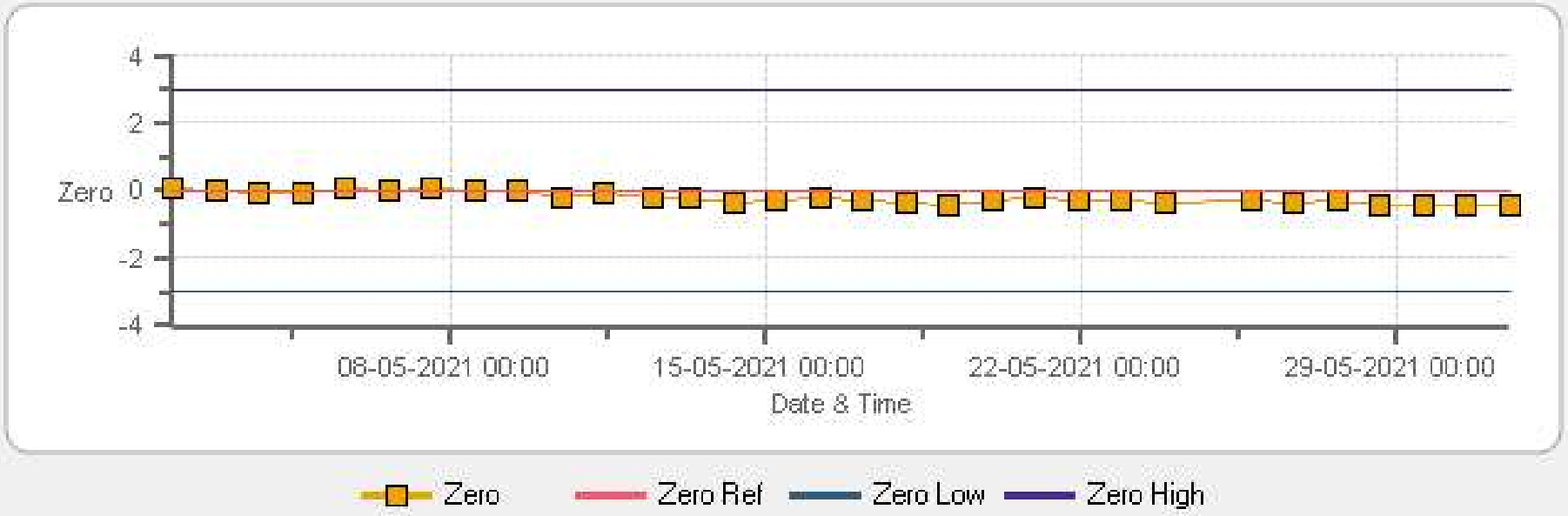
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

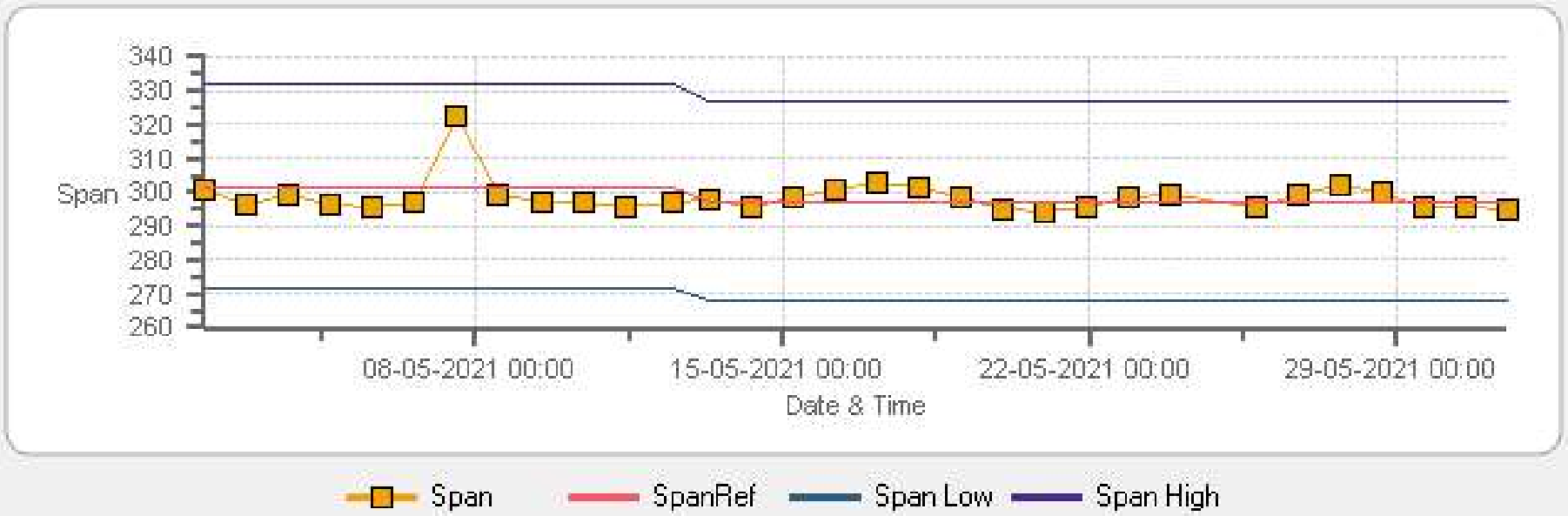
June 15, 2021

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

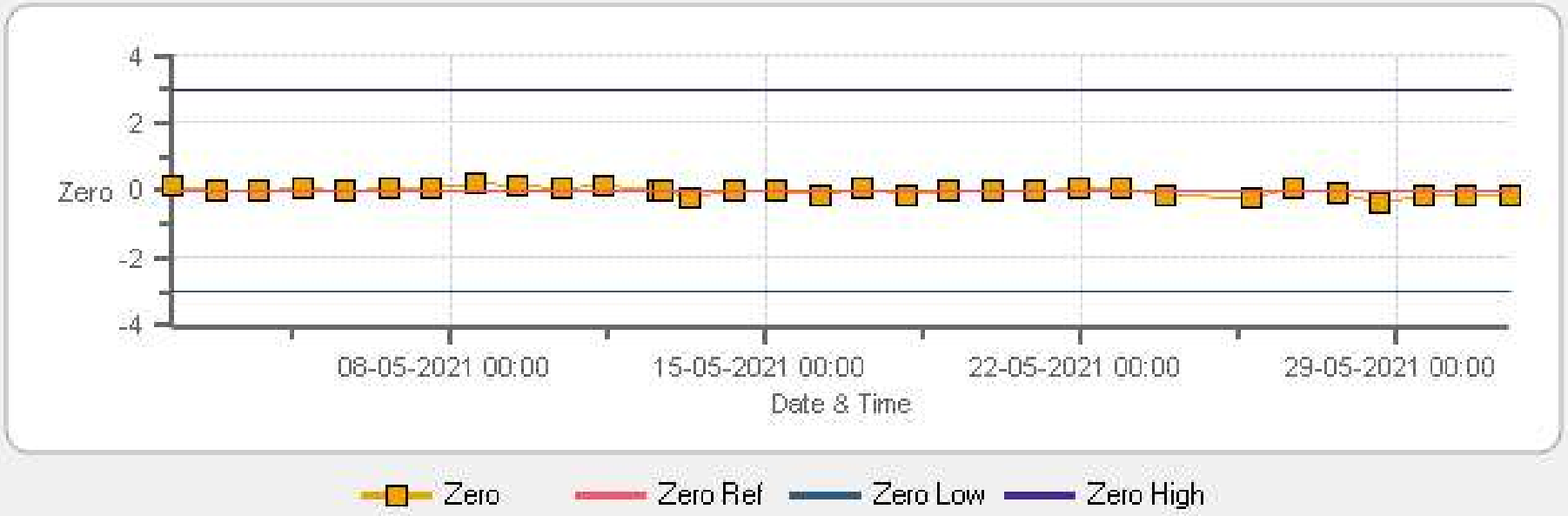
SO2[ppb] Calibration: PRAMP 842b Monthly: 05-2021 Type: SpanAndZero - Zero



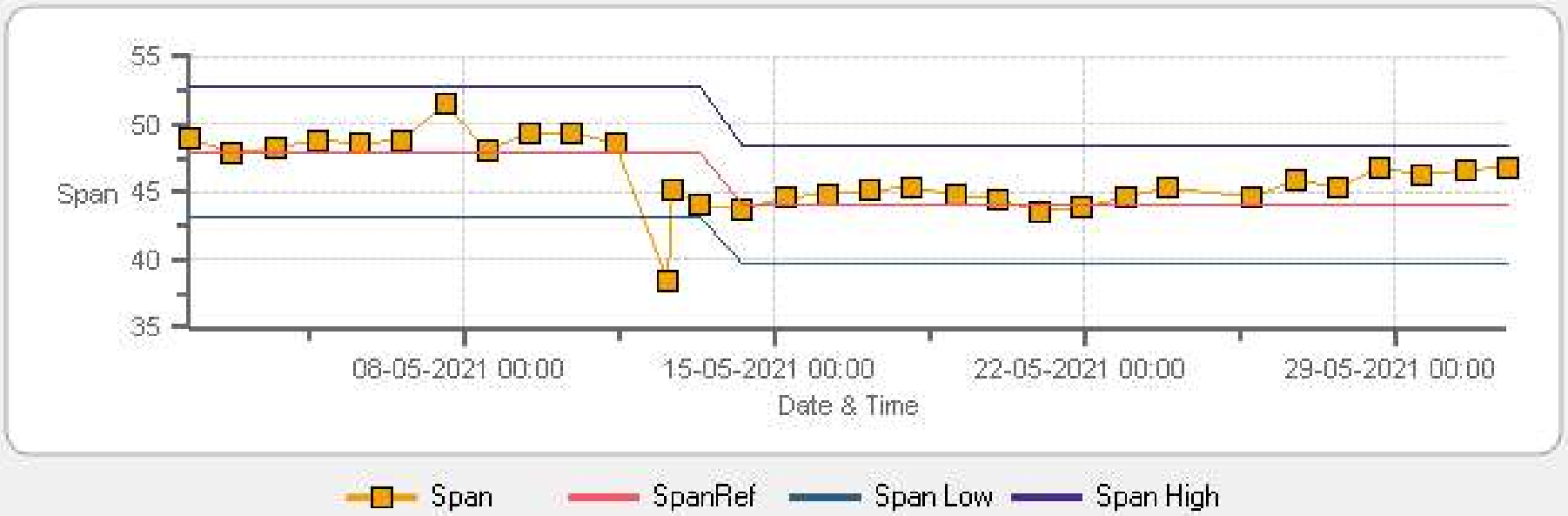
SO2[ppb] Calibration: PRAMP 842b Monthly: 05-2021 Type: SpanAndZero - Span



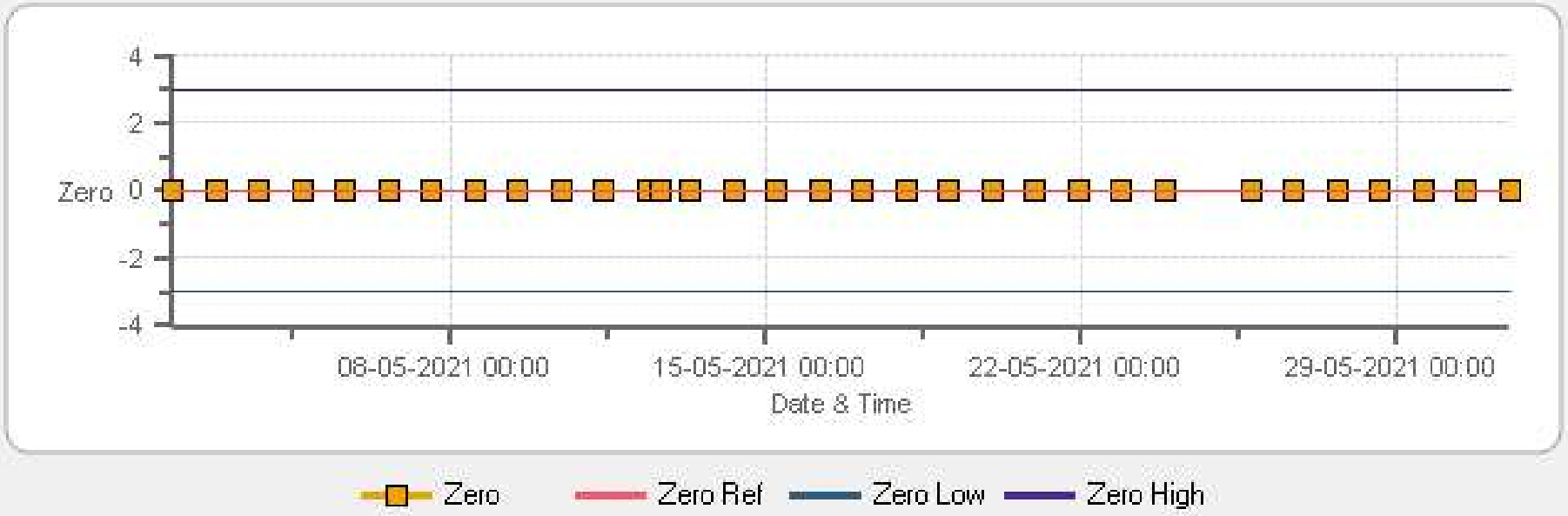
TRS[ppb] Calibration: PRAMP 842b Monthly: 05-2021 Type: SpanAndZero - Zero



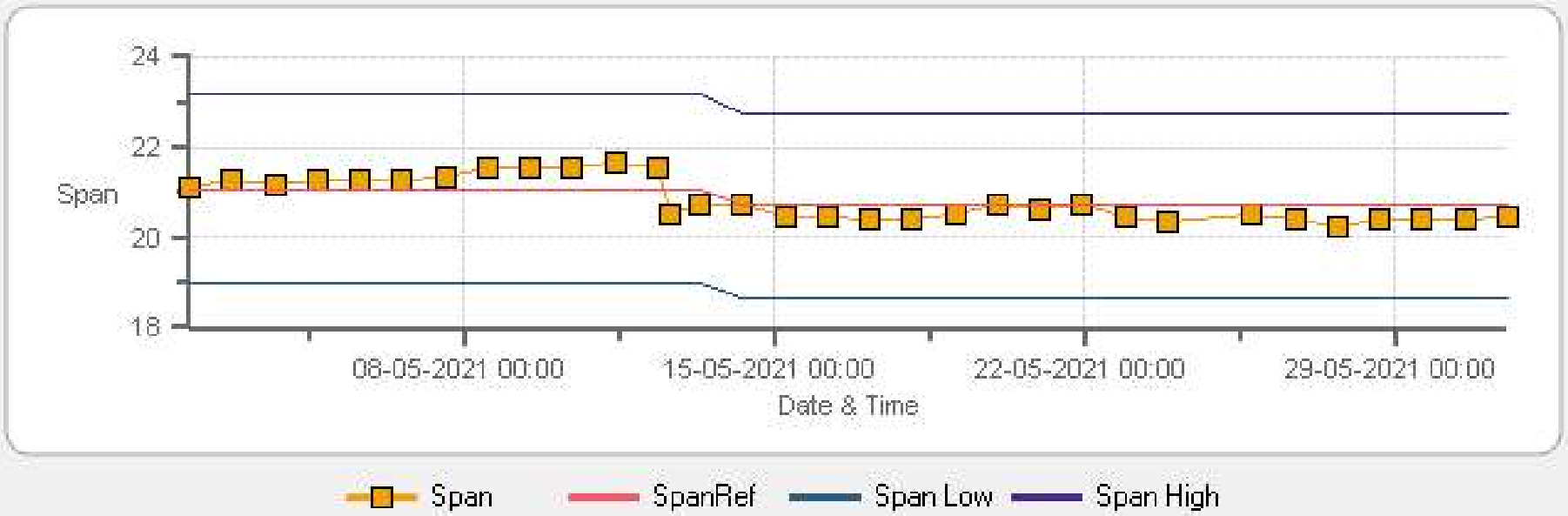
TRS[ppb] Calibration: PRAMP 842b Monthly: 05-2021 Type: SpanAndZero - Span



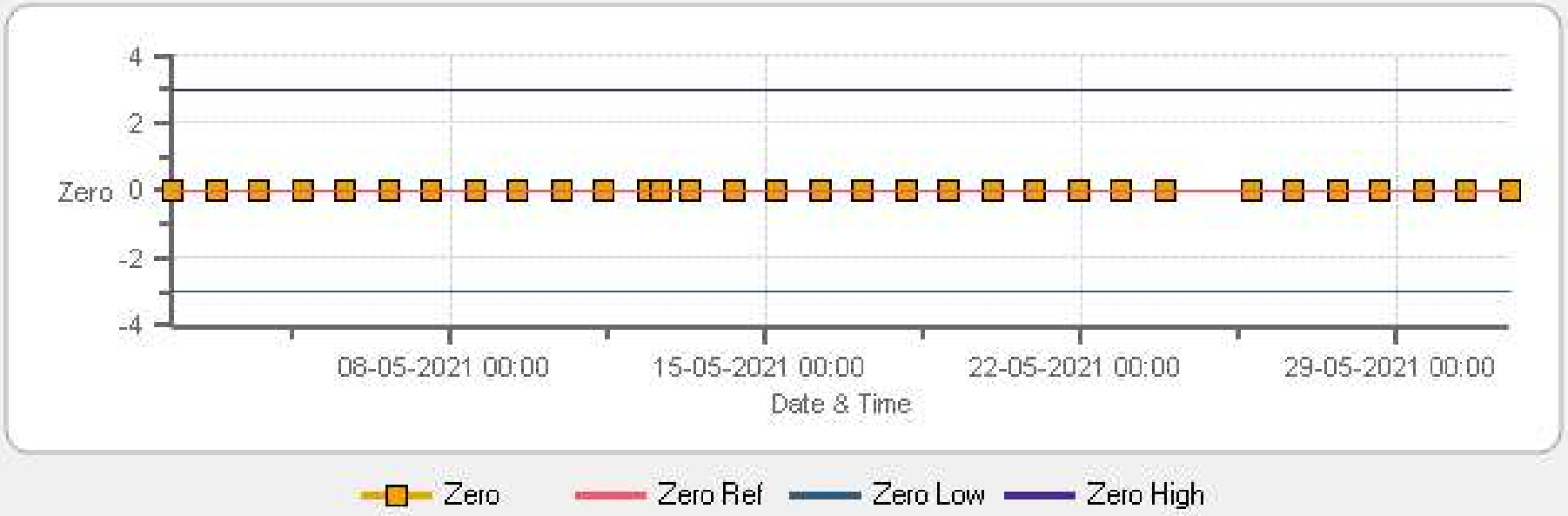
THC55[ppm] Calibration: PRAMP 842b Monthly: 05-2021 Type: SpanAndZero - Zero



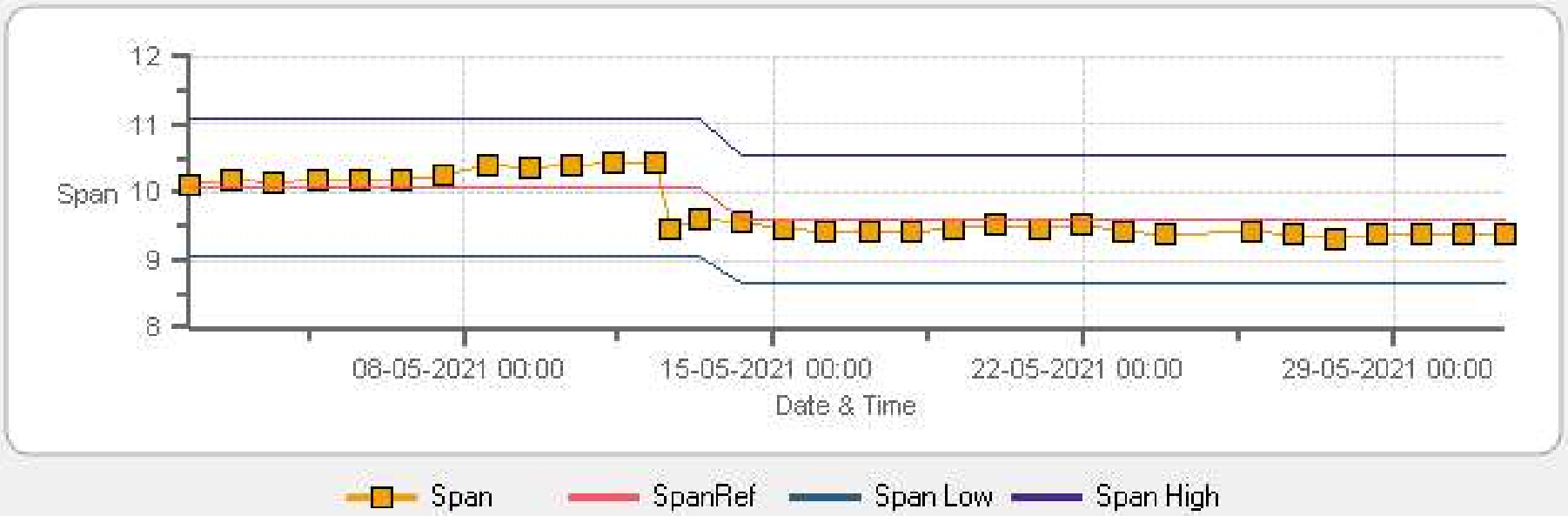
THC55[ppm] Calibration: PRAMP 842b Monthly: 05-2021 Type: SpanAndZero - Span



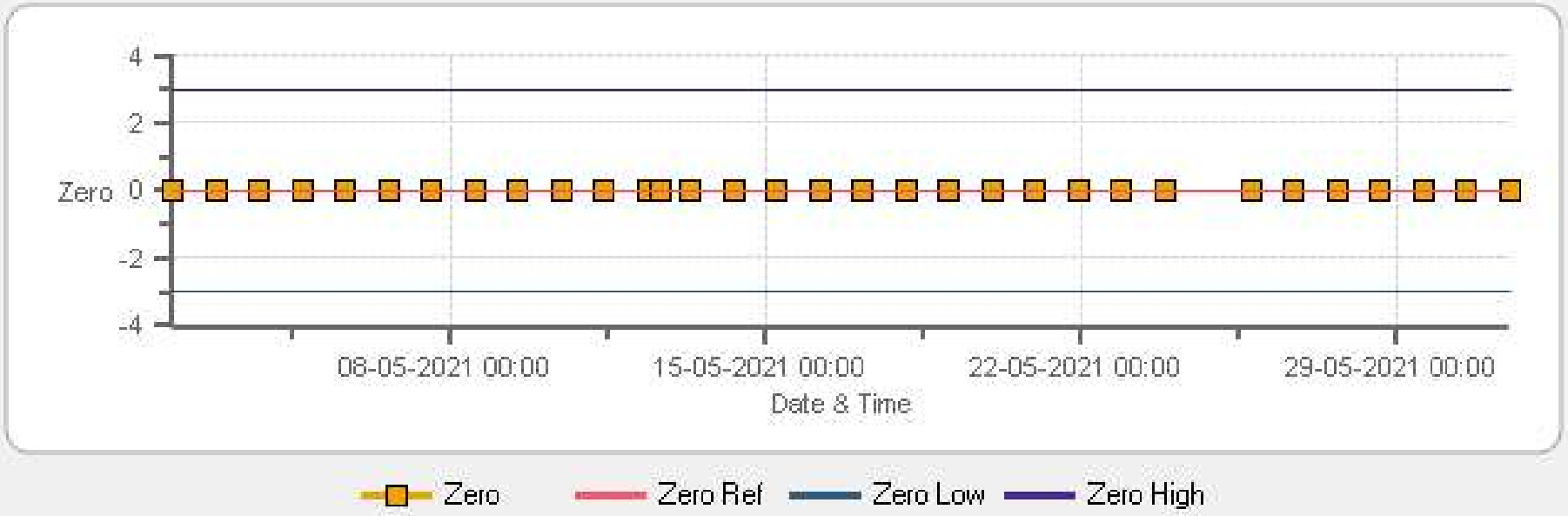
CH4[ppm] Calibration: PRAMP 842b Monthly: 05-2021 Type: SpanAndZero - Zero



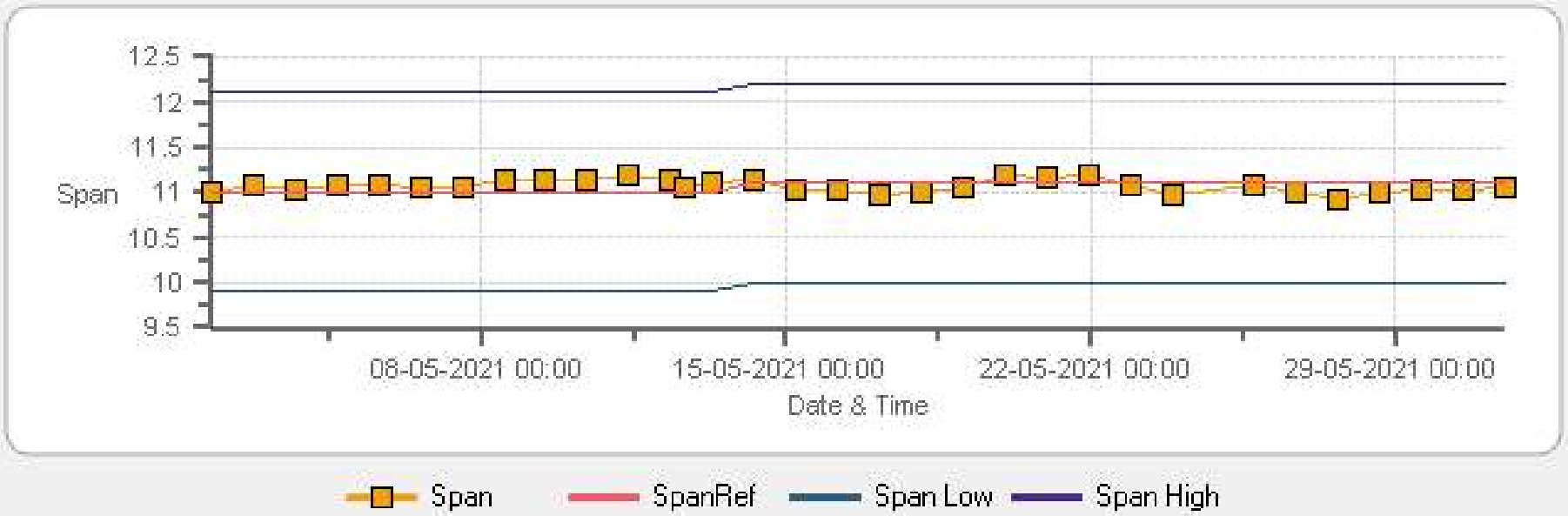
CH4[ppm] Calibration: PRAMP 842b Monthly: 05-2021 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP 842b Monthly: 05-2021 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 842b Monthly: 05-2021 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	12-May-2021	PREVIOUS CALIBRATION DATE:	06-Apr-2021
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.8
LOCATION:	842b	BAROMETRIC (mBar):	945
PURPOSE	Routine	START TIME (MST):	07:52
PERFORMED BY:	Limin Li	END TIME (MST):	12:30

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	426
INITIAL		FINAL	
BKG/OFFSET	7.8	BKG/OFFSET	7.8
COEF/SLOPE	1.075	COEF/SLOPE	1.073
Expected (reference) Value	301.5	Expected (reference) Value	297.4

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	16-Mar-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0001011	HIGH ID	n/a
CONC (ppm):	50.10	EXPIRY DATE	n/a
CYLINDER (psi):	450	LOW ID	n/a
EXPIRY DATE	01-Jul-2027	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 (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
6000		6000	0.00	0	0		
5955	45.50	6000	379.93	381.7	380	0.995	1.000
5978	21.60	6000	180.36	n/a	180.7	n/a	0.998
5989	10.80	6000	90.18	n/a	90.4	n/a	0.998

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Sample filter changed.
10:16 - 10:30 = user error. Calibration restarts at mid-point.

SO2[ppb] Station: PRAMP 842b Daily: 12-05-2021 Type: AVG 1 Min. [1 Min.]

TRS Analyzer Calibration by Dilution

DATE:	12-May-2021	PREVIOUS CALIBRATION DATE:	06-Apr-2021
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	22.8
LOCATION:	842b	BAROMETRIC (mBar):	945
PURPOSE	Removal/Shut-down	START TIME (MST):	07:46
PERFORMED BY:	Limin Li	END TIME (MST):	10:16

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100 ppb
SERIAL #	1162460023	FLOW (mL/min)	388
INITIAL		FINAL	
BKG/OFFSET	3.41	BKG/OFFSET	n/a
COEF/SLOPE	1.112	COEF/SLOPE	n/a
Expected (reference) Value	47.95	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:	18-Mar-2021	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):	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:	08:21	SO2 Conc (ppb)	380
END TIME:	08:41	Analyzer Response (ppb)	0.0

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	0	n/a		
7442	58.50	7500	78.00	85.3	n/a	0.914	n/a
7472	28.50	7500	38.00	41.6	n/a	0.913	n/a
7486	14.25	7500	19.00	20.5	n/a	0.927	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.095	-0.1%

COMMENTS:

Remove BV analyzer.
Converter CDN-101 #576.

TRS Analyzer Calibration by Dilution

DATE:	12-May-2021	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	21.3
LOCATION:	842b	BAROMETRIC (mBar):	944
PURPOSE	Install/Post-Repair	START TIME (MST):	11:06
PERFORMED BY:	Limin Li	END TIME (MST):	14:24

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	374
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	11.9
COEF/SLOPE	n/a	COEF/SLOPE	0.892
Expected (reference) Value	n/a	Expected (reference) Value	44.13

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	Teledyne
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	18-Mar-2021	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):	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 (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	n/a	0		
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:

Install PRAMP analyzer.
Converter CDN-101 #576.

TRS[ppb] Station: PRAMP 842b Daily: 12-05-2021 Type: AVG 1 Min. [1 Min.]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	12-May-2021	PREVIOUS CALIBRATION DATE:	06-Apr-2021
CLIENT:	PRAMP	TEMPERATURE (°C):	20.1
LOCATION:	842b	BAROMETRIC (mBar):	944
PURPOSE	Removal/Shut-down	START TIME (MST):	11:35
PERFORMED BY:	Limin Li	END TIME (MST):	13:10

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1501663728	529
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.001	1.001	1.001

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL70331		HIGH ID:	n/a
MODEL:	2010	MODEL:	701	CH_4/C_3H_8 (ppm):	909.0	308.0	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	1700		LOW ID:	n/a
MFC CALIBRATION DATE:	16-Mar-2021	OXIDIZER ID:	111	EXPIRY DATE	21-Jan-2028		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	847.0
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1756.0

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.07	11.01	21.07		10.07	11.01	21.07

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3500		3500	0.00	0.00	0.00	0.00	0.00	0.00	n/a	n/a	n/a						
3444	55.80	3500	14.49	13.50	28.00	15.77	13.58	29.35	n/a	n/a	n/a	0.919	0.994	0.954	n/a	n/a	n/a
3472	27.90	3500	7.25	6.75	14.00	7.76	6.70	14.46	n/a	n/a	n/a	0.934	1.008	0.968	n/a	n/a	n/a
3486	13.90	3500	3.61	3.36	6.97	3.81	3.32	7.13	n/a	n/a	n/a	0.948	1.013	0.978	n/a	n/a	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.090	-0.4%
NMHC	1.000	1.006	-0.2%
THC	1.000	1.050	-0.3%

Comments:

Shutdown calibration, then rebuilt pump.

Use Zero Chrom? **No**

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	12-May-2021	PREVIOUS CALIBRATION DATE:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	22.5
LOCATION:	842b	BAROMETRIC (mBar):	943
PURPOSE	Install/Post-Repair	START TIME (MST):	13:46
PERFORMED BY:	Limin Li	END TIME (MST):	16:18

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1501663728	1021
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	n/a	n/a	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL70331		HIGH ID:	n/a
MODEL:	2010	MODEL:	701	CH_4/C_3H_8 (ppm):	909.0	308.0	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	1700		LOW ID:	n/a
MFC CALIBRATION DATE:	16-Mar-2021	OXIDIZER ID:	111	EXPIRY DATE	21-Jan-2028		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	847.0
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1756.0

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.07	11.01	21.07		9.60	11.10	20.70

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3500		3500	0.00	0.00	0.00	n/a	n/a	0.00	0.00	0.00	0.00						
3444	55.80	3500	14.49	13.50	28.00	n/a	n/a	n/a	14.48	13.53	28.01	n/a	n/a	n/a	1.001	0.998	0.999
3472	27.90	3500	7.25	6.75	14.00	n/a	n/a	n/a	7.11	6.66	13.77	n/a	n/a	n/a	1.019	1.014	1.017
3486	13.90	3500	3.61	3.36	6.97	n/a	n/a	n/a	3.49	3.31	6.80	n/a	n/a	n/a	1.034	1.016	1.026

LINEAR REGRESSION ANALYSIS:

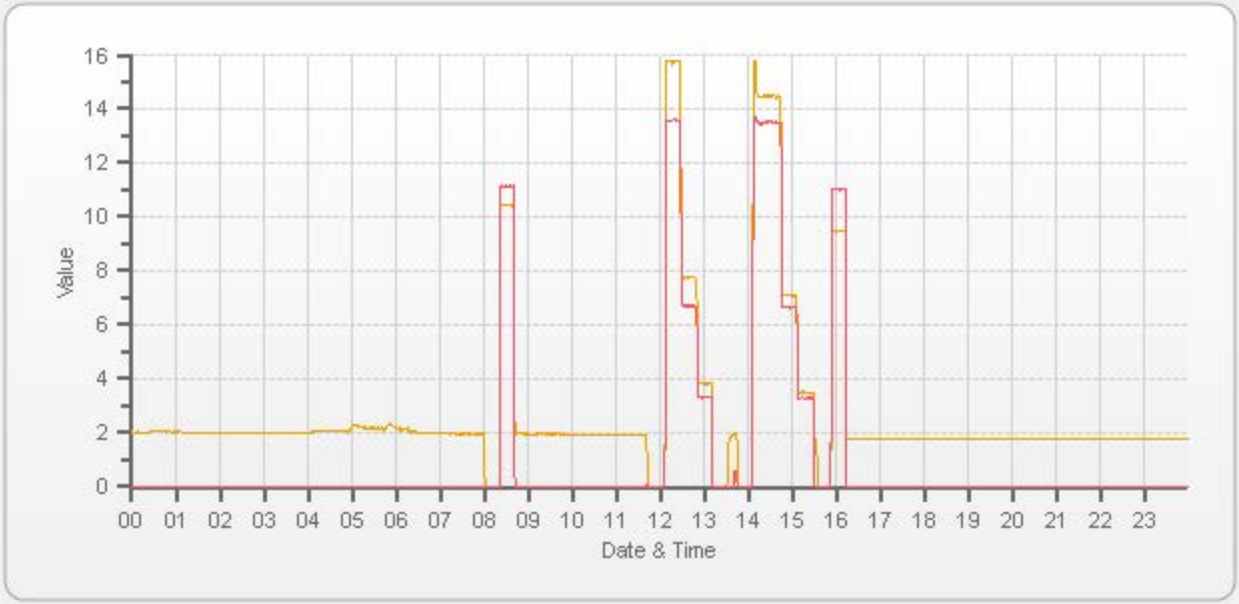
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.001	-0.4%
NMHC	1.000	1.003	-0.2%
THC	1.000	1.002	-0.3%

Comments:

Post-repair after sample pump rebuild

Use Zero Chrom? **No**

Station: PRAMP 842b Daily: 12-05-2021 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	May 12, 2021
Technician:	Limin Li
Station:	PRAMP 842b

Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 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:	April 6, 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	

TIP TEST - Slowly pour water until 10 tip are heard. (10 tips = 1 ml)

# of Tips	Data Logger Response (ml):	Manual Specification = +/- 0.1 ml
10	0.90	0.10

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	April 6, 2021
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	FS 160459244 expires June 10, 2021
Reference Temperature (^{o}C):	14.9
Station - Ambient Temperature (^{o}C):	15.0
Temperature Difference (^{o}C):	-0.1

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	April 6, 2021	
Reference Barometer ID:	Brunton 05490 expires Jan 12, 2022	
Reference Pressure - Units/Reading:	millibar	944.5
Station Pressure - Units/Reading:	millibar	944.2
Pressure Tolerance +/- 15% of error:	803 - 1086	

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	April 6, 2021	
Reference Hygrometer ID:	FS 160459244 expires June 10, 2021	
Reference Hygrometer % RH- Reading:	45.36	
Station Hygrometer % RH- Reading:	42.20	
RH Tolerance +/- 15% of difference:	38.56 - 52.16	7.0%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	April 6, 2021	Previous check date:	April 6, 2021
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	SE
Wind speed on Data Logger (kph):	9	Wind Direction on Data Logger:	SE
		Wind Direction Pass/Fail?:	Pass

Comments

Tip-test result to be confirmed at next visit

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

MAY 2021

Ambient Air Monitoring Calibration Report

- 986c STATION-

CAL-PRAMP-202105-01562

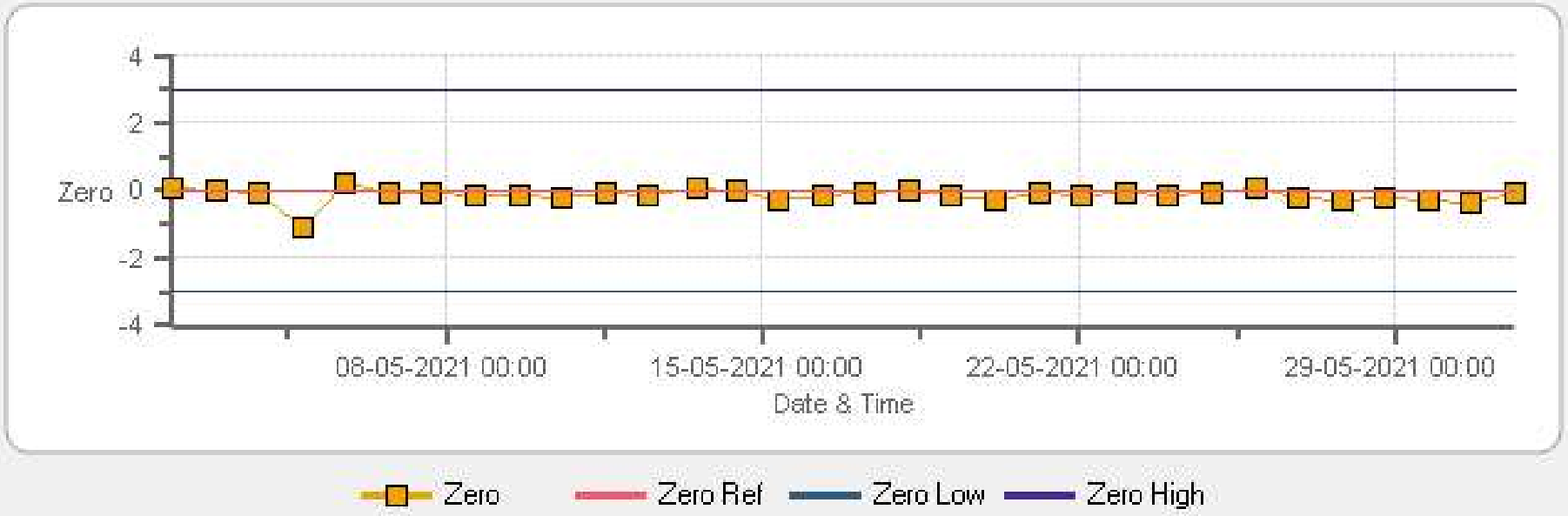
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

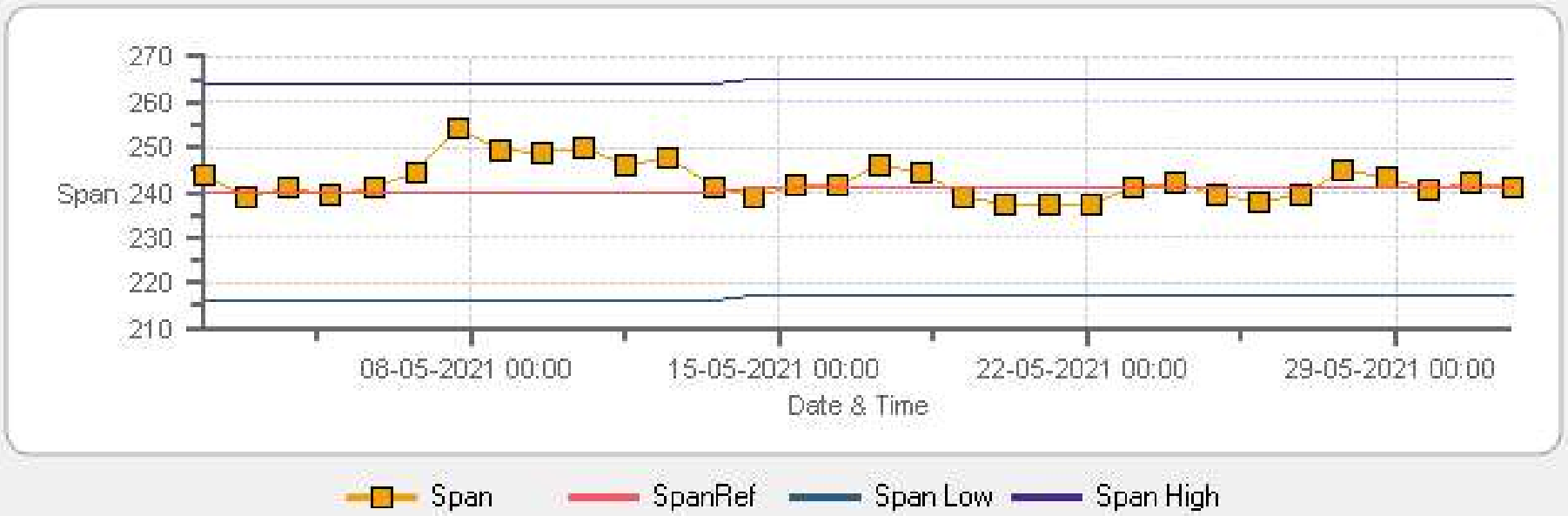
June 15, 2021

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

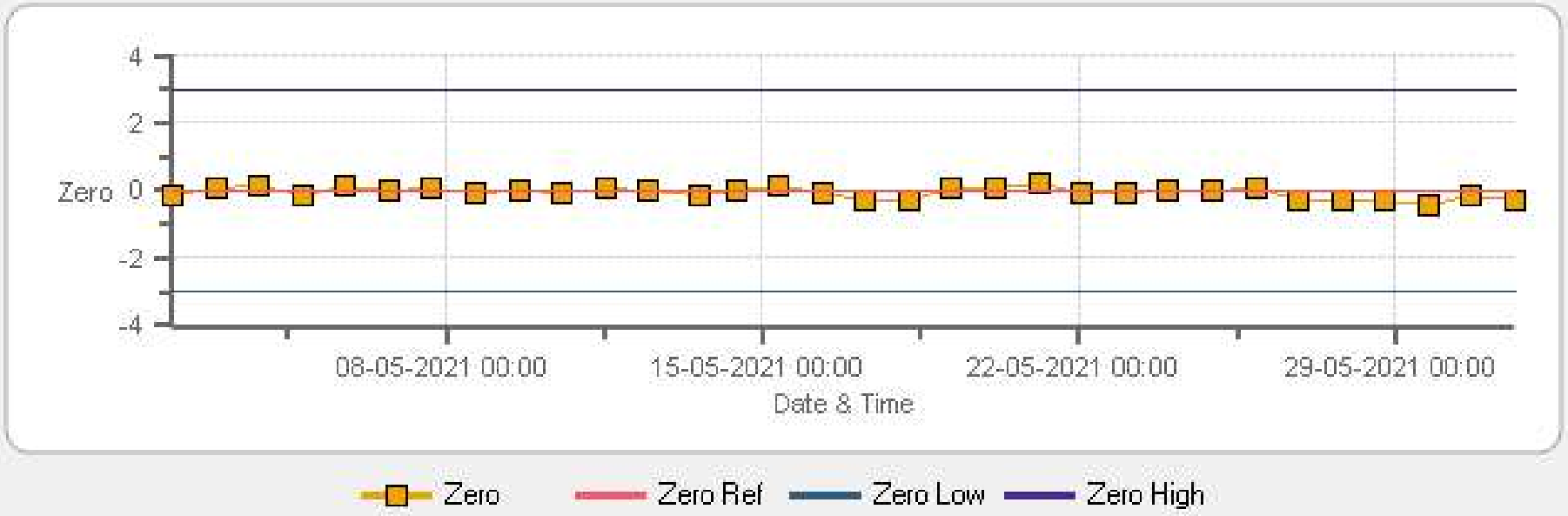
SO2[ppb] Calibration: PRAMP 986c Monthly: 05-2021 Type: SpanAndZero - Zero



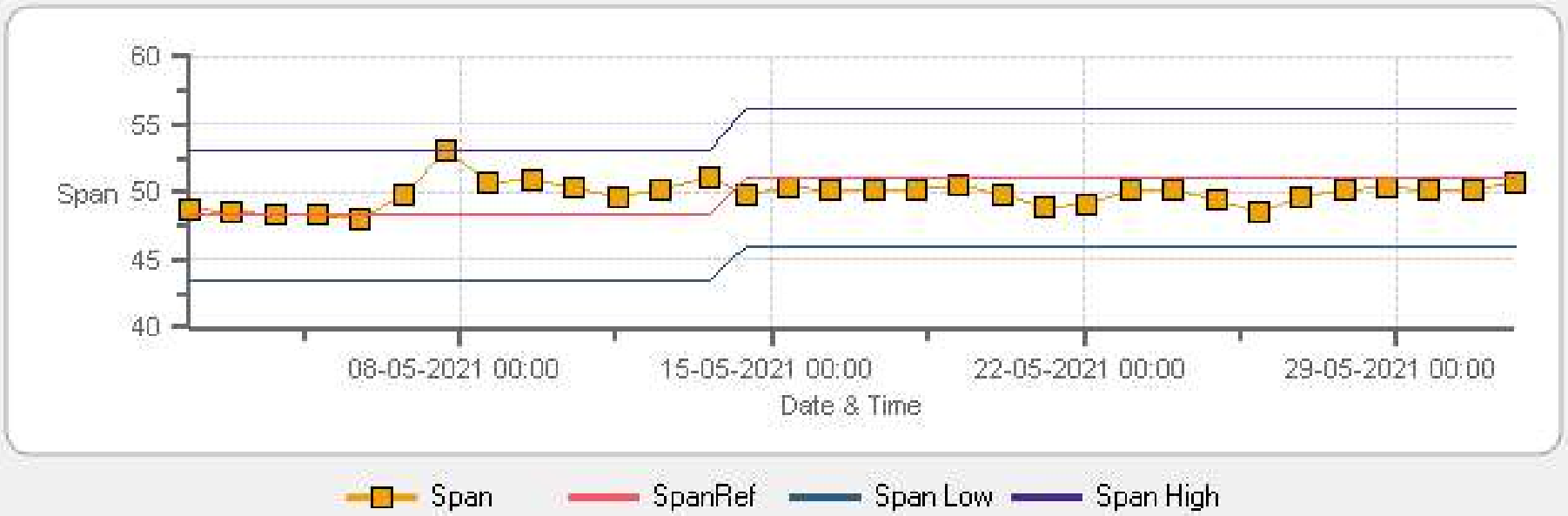
SO2[ppb] Calibration: PRAMP 986c Monthly: 05-2021 Type: SpanAndZero - Span



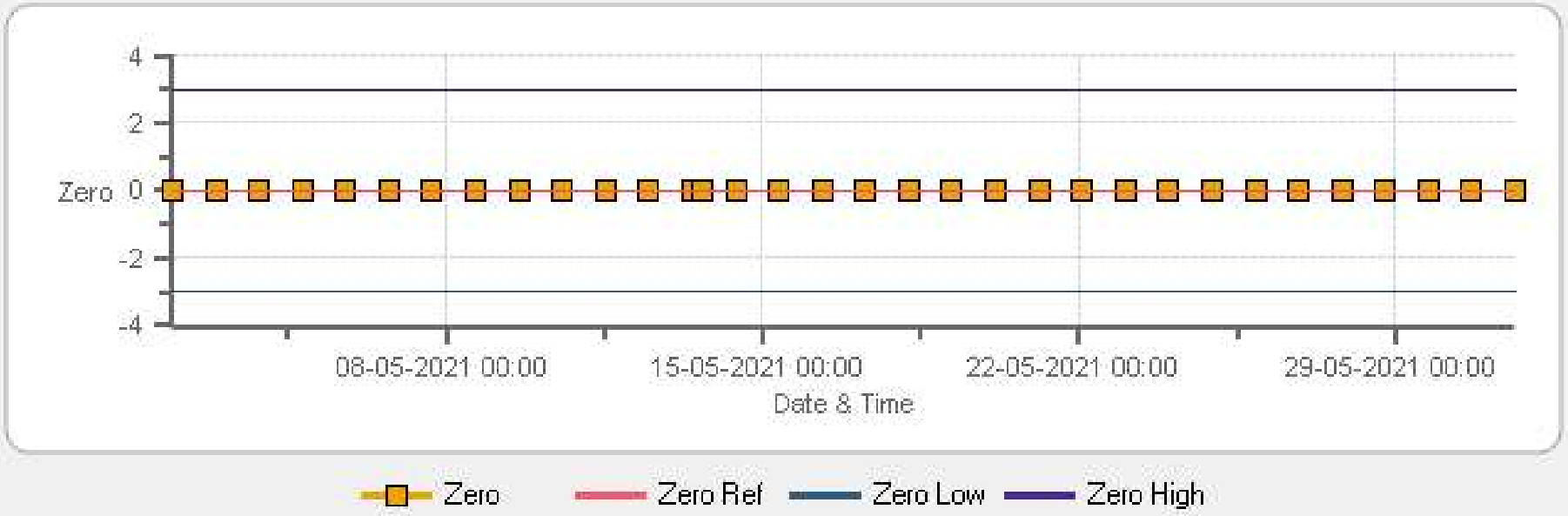
TRS[ppb] Calibration: PRAMP 986c Monthly: 05-2021 Type: SpanAndZero - Zero



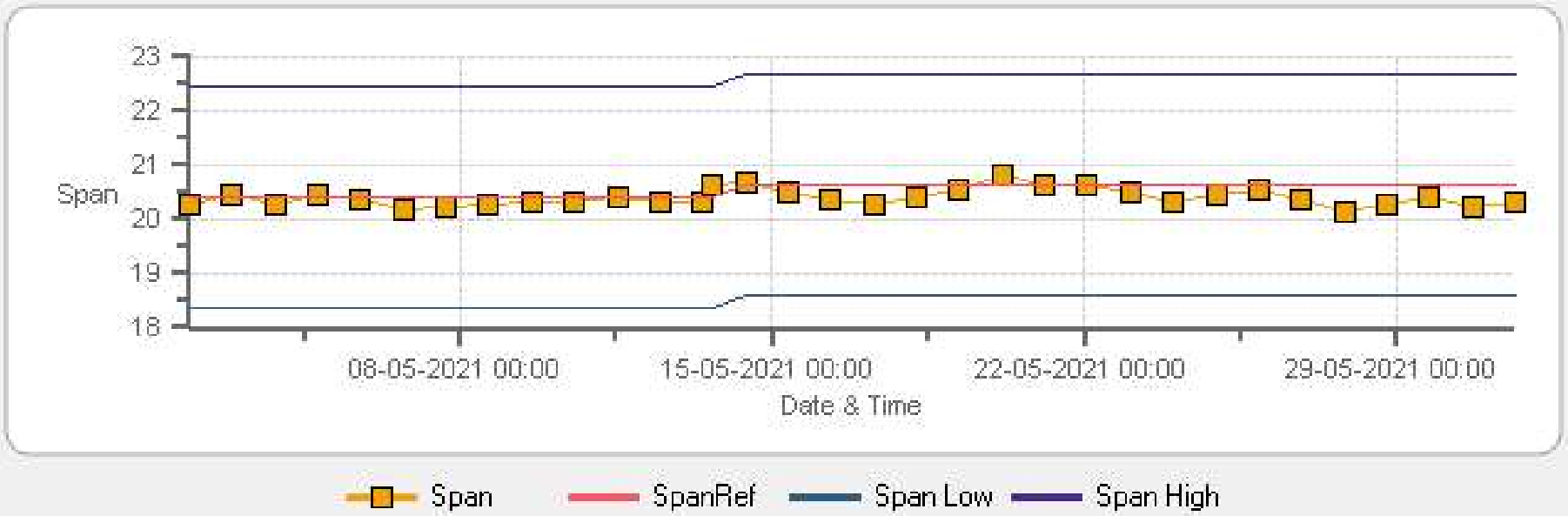
TRS[ppb] Calibration: PRAMP 986c Monthly: 05-2021 Type: SpanAndZero - Span



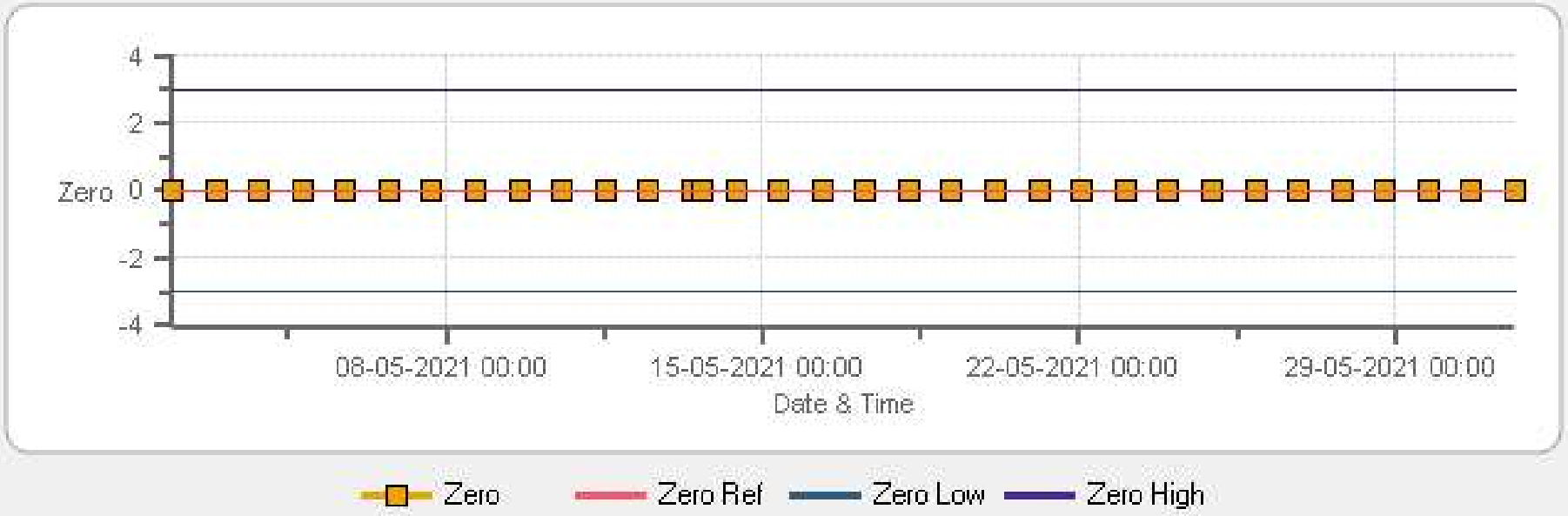
THC55[ppm] Calibration: PRAMP 986c Monthly: 05-2021 Type: SpanAndZero - Zero



THC55[ppm] Calibration: PRAMP 986c Monthly: 05-2021 Type: SpanAndZero - Span

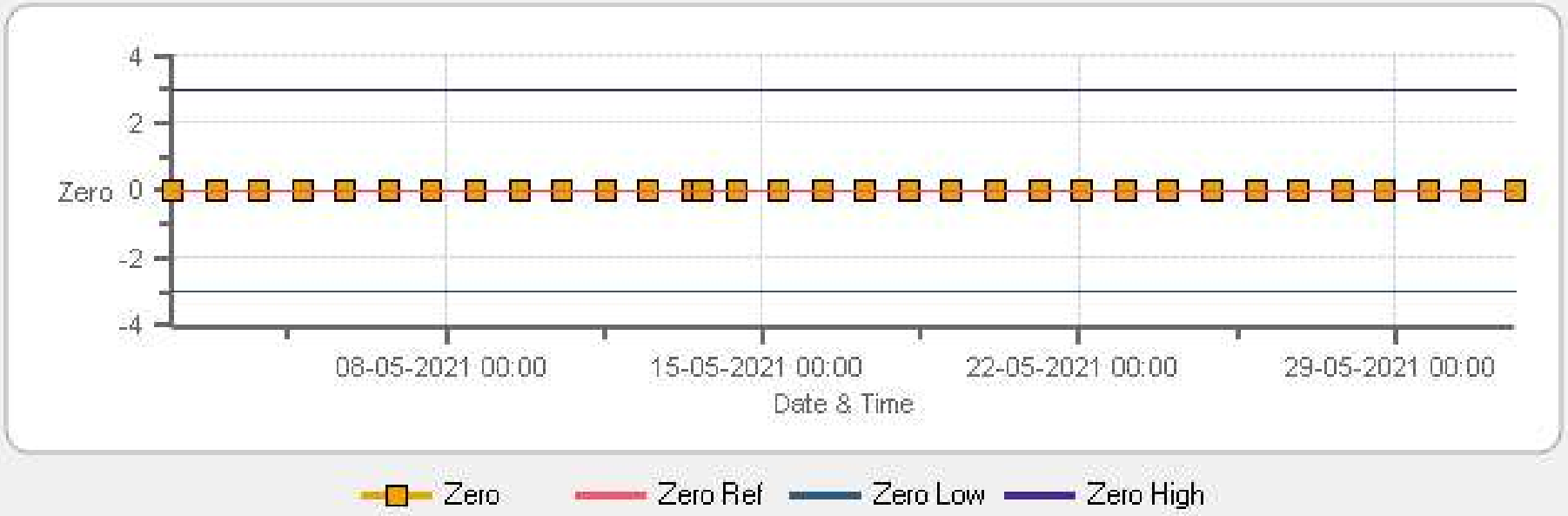


CH4[ppm] Calibration: PRAMP 986c Monthly: 05-2021 Type: SpanAndZero - Zero

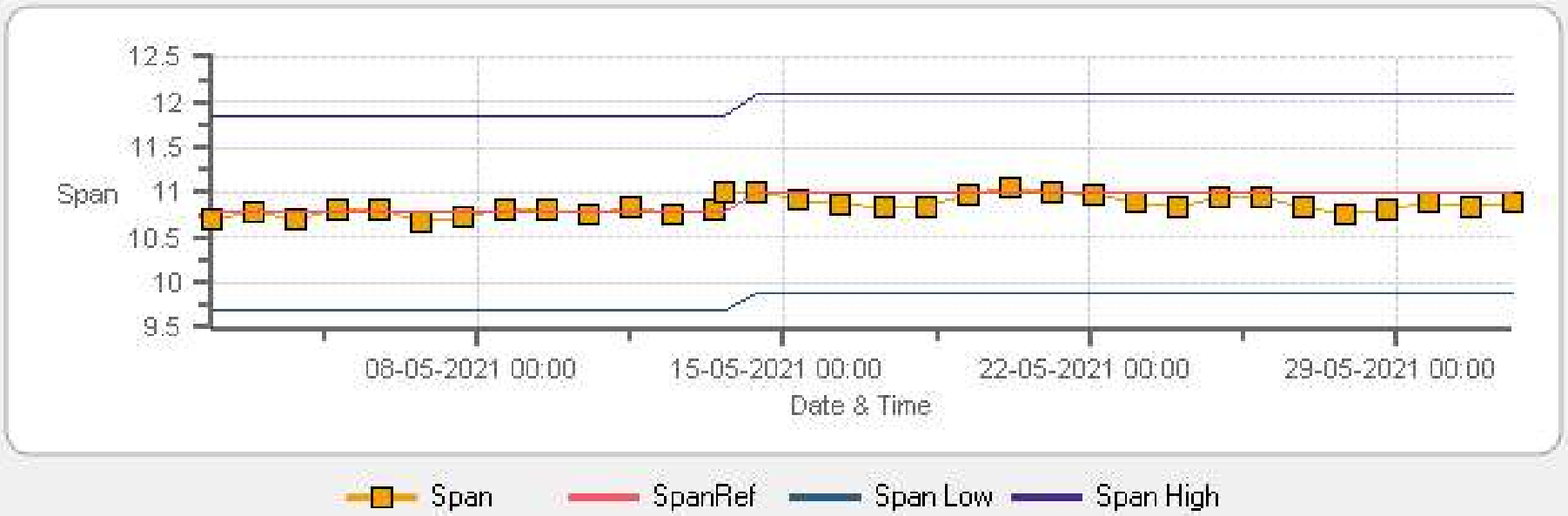


CH4[ppm] Calibration: PRAMP 986c Monthly: 05-2021 Type: SpanAndZero - Span

NMHC[ppm] Calibration: PRAMP 986c Monthly: 05-2021 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 986c Monthly: 05-2021 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	13-May-2021	PREVIOUS CALIBRATION DATE:	22-Apr-2021
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.0
LOCATION:	986C	BAROMETRIC (mBar):	947
PURPOSE	Routine	START TIME (MST):	09:36
PERFORMED BY:	Limin Li	END TIME (MST):	13:05

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	431
INITIAL		FINAL	
BKG/OFFSET	12.9	BKG/OFFSET	12.5
COEF/SLOPE	1.035	COEF/SLOPE	1.004
Expected (reference) Value	240.2	Expected (reference) Value	241

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	16-Mar-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0001011	HIGH ID	n/a
CONC (ppm):	50.10	EXPIRY DATE	n/a
CYLINDER (psi):	450	LOW ID	n/a
EXPIRY DATE	01-Jul-2027	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 (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
6000		6000	0.00	-0.1	0		
5955	45.50	6000	379.93	389	380	0.976	1.000
5978	21.60	6000	180.36	n/a	180.6	n/a	0.999
5989	10.80	6000	90.18	n/a	89.7	n/a	1.005

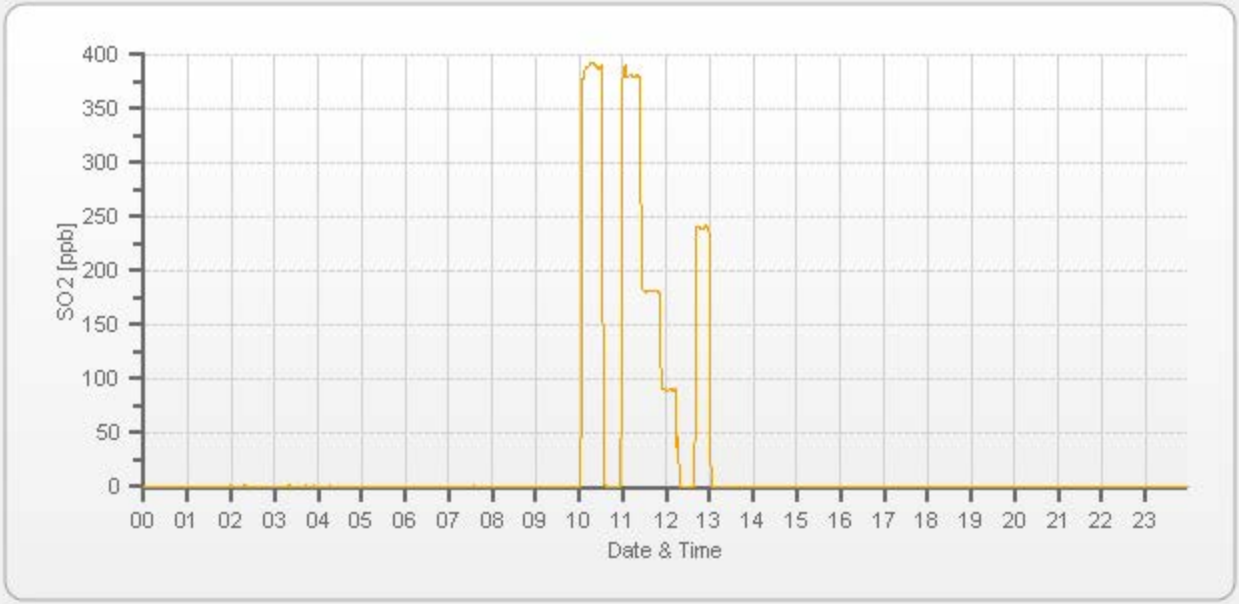
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.0%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

SO2[ppb] Station: PRAMP 986c Daily: 13-05-2021 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	13-May-2021	PREVIOUS CALIBRATION DATE:	22-Apr-2021
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.0
LOCATION:	986C	BAROMETRIC (mBar):	947
PURPOSE	Routine	START TIME (MST):	09:36
PERFORMED BY:	Limin Li	END TIME (MST):	14:13

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	428
INITIAL		FINAL	
BKG/OFFSET	12.3	BKG/OFFSET	12.5
COEF/SLOPE	0.866	COEF/SLOPE	0.886
Expected (reference) Value	48.28	Expected (reference) Value	51.13

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	Teledyne
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	18-Mar-2021	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):	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:	10:02	SO2 Conc (ppb)	380
END TIME:	10:22	Analyzer Response (ppb)	0.3

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	-0.1	0		
7442	58.50	7500	78.00	76.3	78	1.021	1.000
7472	28.50	7500	38.00	n/a	37.75	n/a	1.007
7486	14.25	7500	19.00	n/a	19.05	n/a	0.997

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.0%

COMMENTS:

Sample filter changed.
10:29-10:39 = user error. AF high starts at 10:40
14:14-14:29 = data valid. Flag not removed in error
Converter: CDNova CDN-101 #583


TRS[ppb] Station: PRAMP 986c Daily: 13-05-2021 Type: AVG 1 Min. [1 Min.]
TRS [ppb]
80
70
60
50
40
30
20
10
0
-10
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
TRS [ppb]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	13-May-2021	PREVIOUS CALIBRATION DATE:	22-Apr-2021
CLIENT:	PRAMP	TEMPERATURE (°C):	23.8
LOCATION:	986C	BAROMETRIC (mBar):	947
PURPOSE	Routine	START TIME (MST):	12:16
PERFORMED BY:	Limin Li	END TIME (MST):	15:53

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1193585652	1338
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.997	0.999	0.998

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL70331		HIGH ID:	n/a
MODEL:	2010	MODEL:	701	CH_4/C_3H_8 (ppm):	909.0	308.0	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	1700		LOW ID:	n/a
MFC CALIBRATION DATE:	16-Mar-2021	OXIDIZER ID:	111	EXPIRY DATE	21-Jan-2028		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	847.0
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1756.0

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	9.64	10.78	20.42		9.64	10.99	20.64

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3500		3500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
3444	55.80	3500	14.49	13.50	28.00	14.54	13.22	27.76	14.52	13.47	27.99	0.997	1.021	1.008	0.998	1.002	1.000
3472	27.90	3500	7.25	6.75	14.00	n/a	n/a	n/a	7.25	6.74	13.99	n/a	n/a	n/a	0.999	1.002	1.001
3486	13.90	3500	3.61	3.36	6.97	n/a	n/a	n/a	3.58	3.40	6.98	n/a	n/a	n/a	1.008	0.989	0.999

LINEAR REGRESSION ANALYSIS:

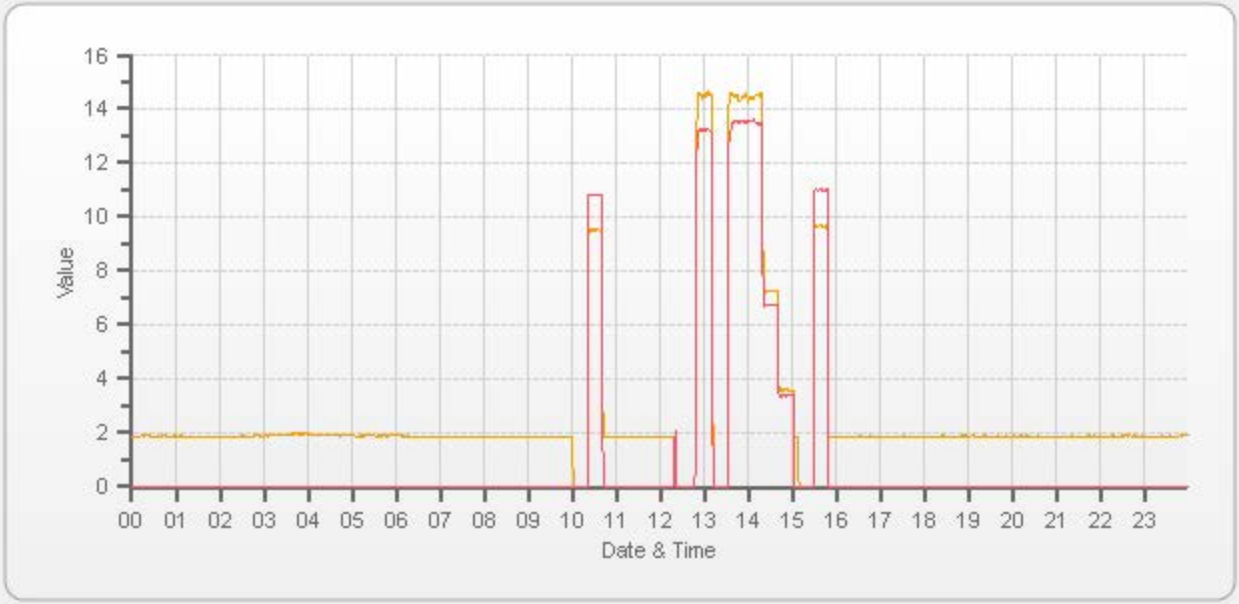
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.003	-0.1%
NMHC	1.000	0.996	0.1%
THC	1.000	1.000	0.0%

Comments:

Sample filter changed. Monhtly calibration - no issues.

Use Zero Chrom? **No**

Station: PRAMP 986c Daily: 13-05-2021 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	May 13, 2021		
Technician:	Limin Li		
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

PRECIPITATION SENSOR CHECK

Checklist:	**Reply:**	**Comments:**
Previous check date:	April 22, 2021	
Is the sensor Level?	yes	
Is the heater operating properly?	other - see comments	No heater
Are the bucket drain holes clean?	yes	
Is the screen on the housing? (screen should be on between July and September	yes	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

TIP TEST - Slowly pour water until 5 tips are heard. (5 tips = 1 ml)

# of Tips	**Data Logger Response (ml):**	**Manual Specification = +/- 0.1 ml**
5	1.0	0.00

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	April 22, 2021	
Parameter:	Temperature @ 2 metres	
Reference Thermometer ID:	FS 160459244 expires June 10, 2021	
Reference Temperature (^{o}C):	15.7	
Station - Ambient Temperature (^{o}C):	15.0	
Temperature Difference (^{o}C):	0.7	

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	April 22, 2021	
Reference Barometer ID:	Brunton 05490 expires Jan 12, 2022	
Reference Pressure - Units/Reading:	millibar	947.4
Station Pressure - Units/Reading:	millibar	947.4
Pressure Tolerance +/- 15% of error:	805 - 1090	0.00%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	April 22, 2021	
Reference Hygrometer ID:	FS 160459244 expires June 10, 2021	
Reference Hygrometer % RH- Reading:	46.00	
Station Hygrometer % RH- Reading:	47.20	
RH Tolerance +/- 15% of difference:	39.10 - 52.90	-2.6%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	April 22, 2021	Previous check date:	April 22, 2021
Wind Speed Observed (kph):	15 ~ 20	Wind Direction Observed:	N
Wind speed on Data Logger (kph):	17.9	Wind Direction on Data Logger:	N
		Wind Direction Pass/Fail?:	Pass

Comments

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	986C	**Reviewed By:**	Ferdinand Roy
Audit Date:	July 16, 2020	**Start/End Time (mst):**	15:07 / 16:17
Calibration Purpose:	installation	**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

MAY 2021

Ambient Air Monitoring Calibration Report

- RENO STATION-

CAL-PRAMP-202105-01563

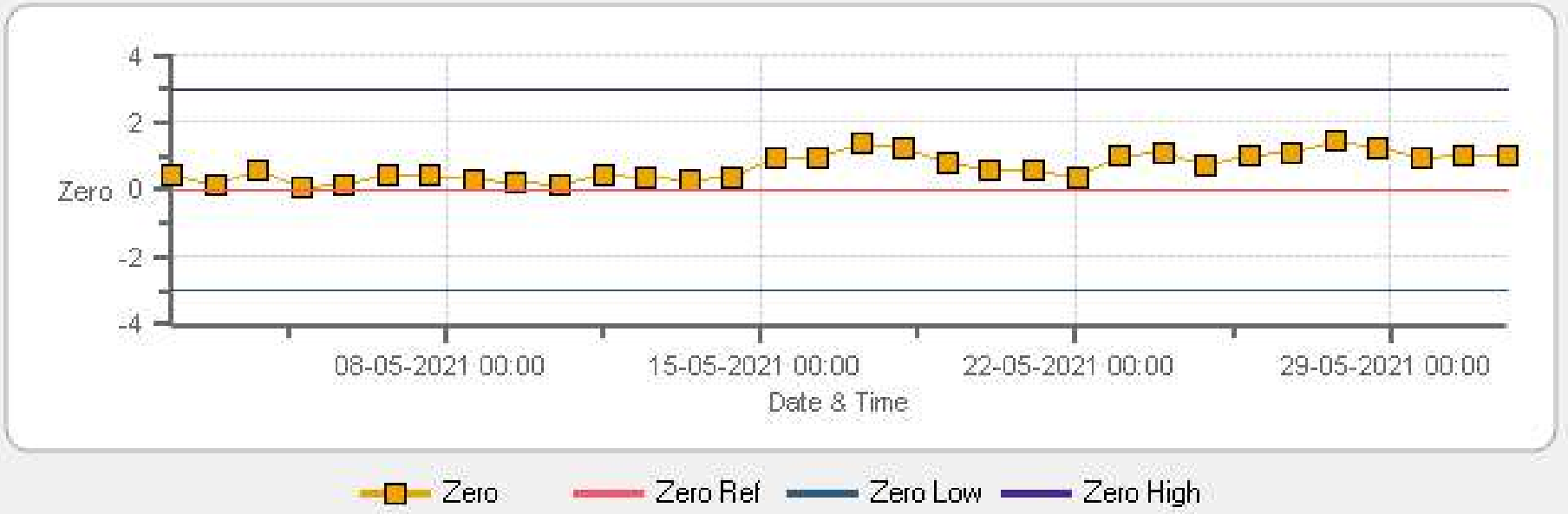
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

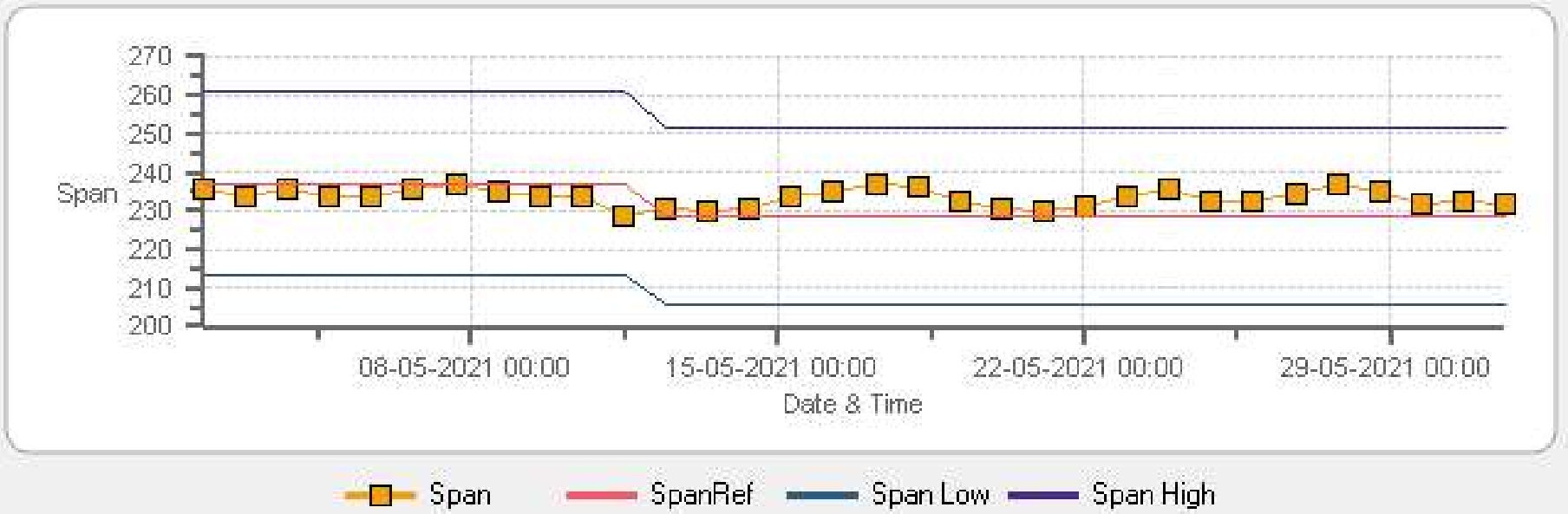
June 15, 2021

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

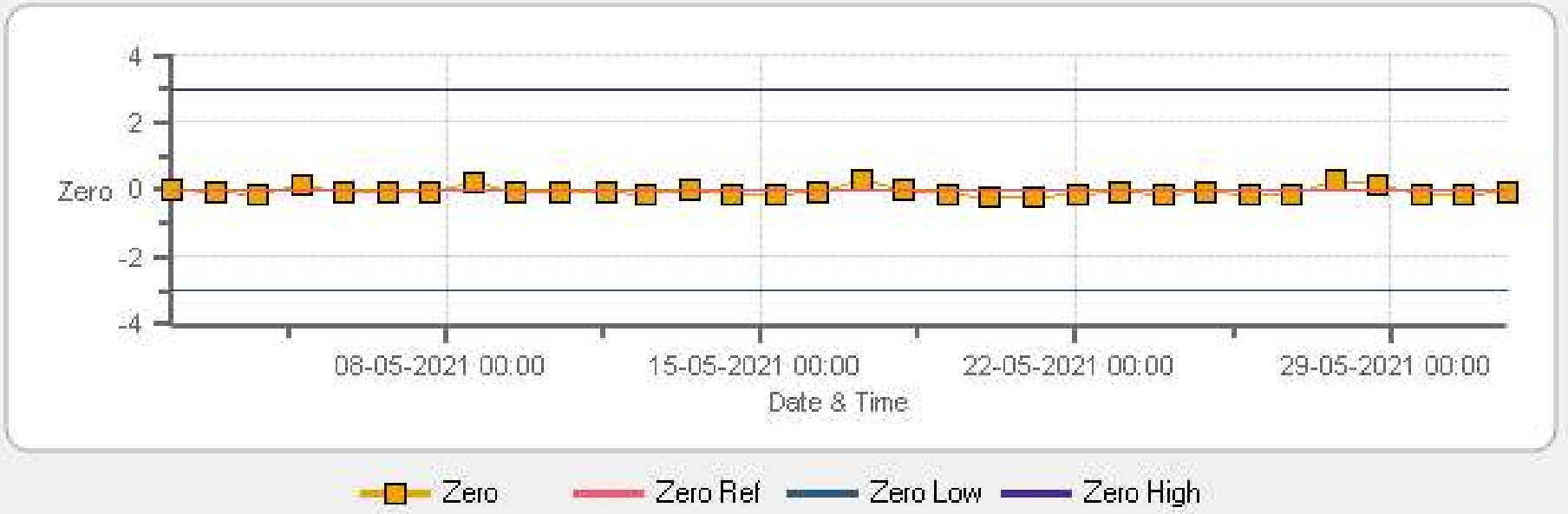
SO2[ppb] Calibration: PRAMP RENO Monthly: 05-2021 Type: SpanAndZero - Zero



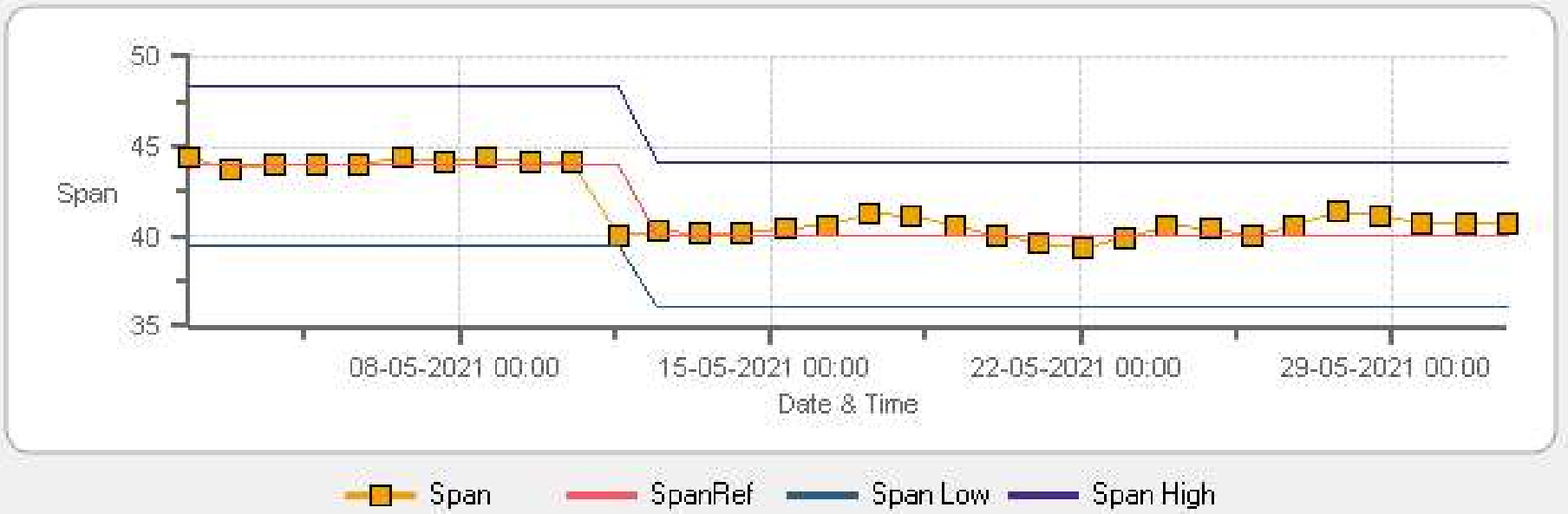
SO2[ppb] Calibration: PRAMP RENO Monthly: 05-2021 Type: SpanAndZero - Span



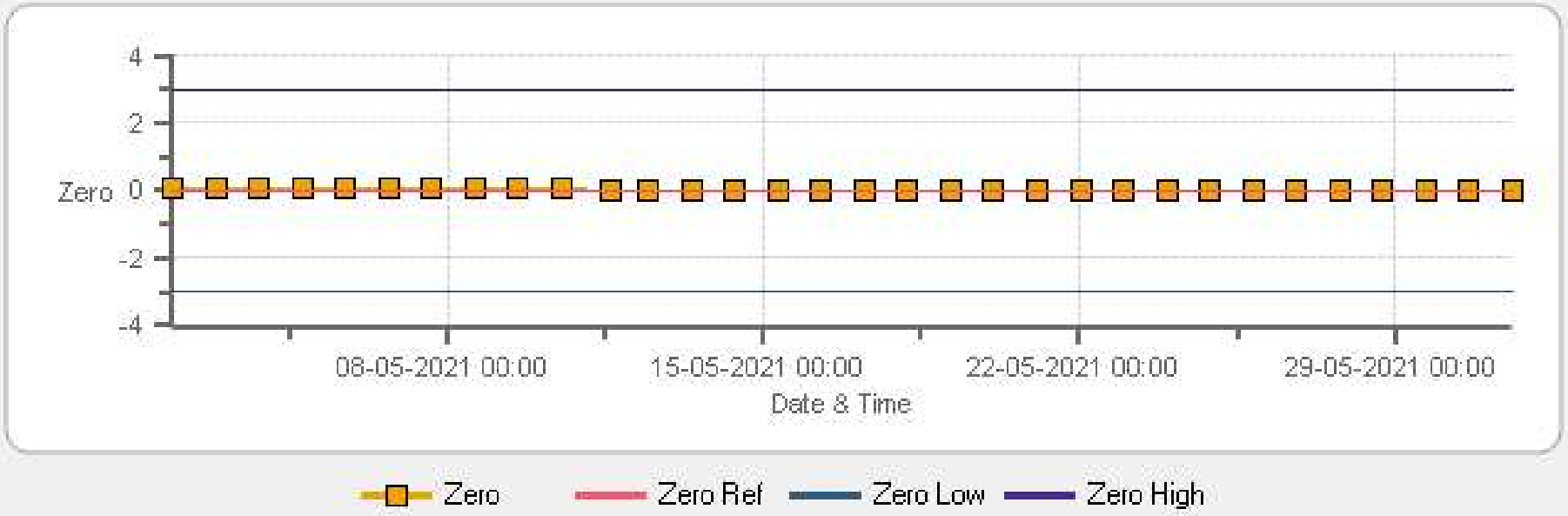
TRS[ppb] Calibration: PRAMP RENO Monthly: 05-2021 Type: SpanAndZero - Zero



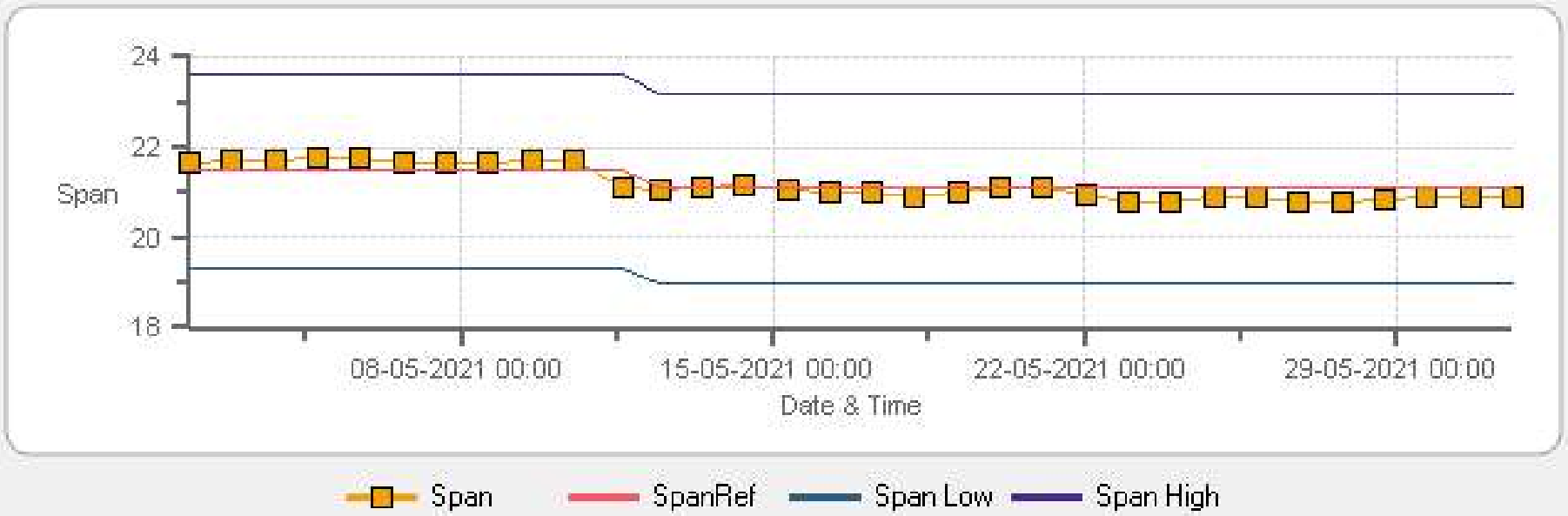
TRS[ppb] Calibration: PRAMP RENO Monthly: 05-2021 Type: SpanAndZero - Span



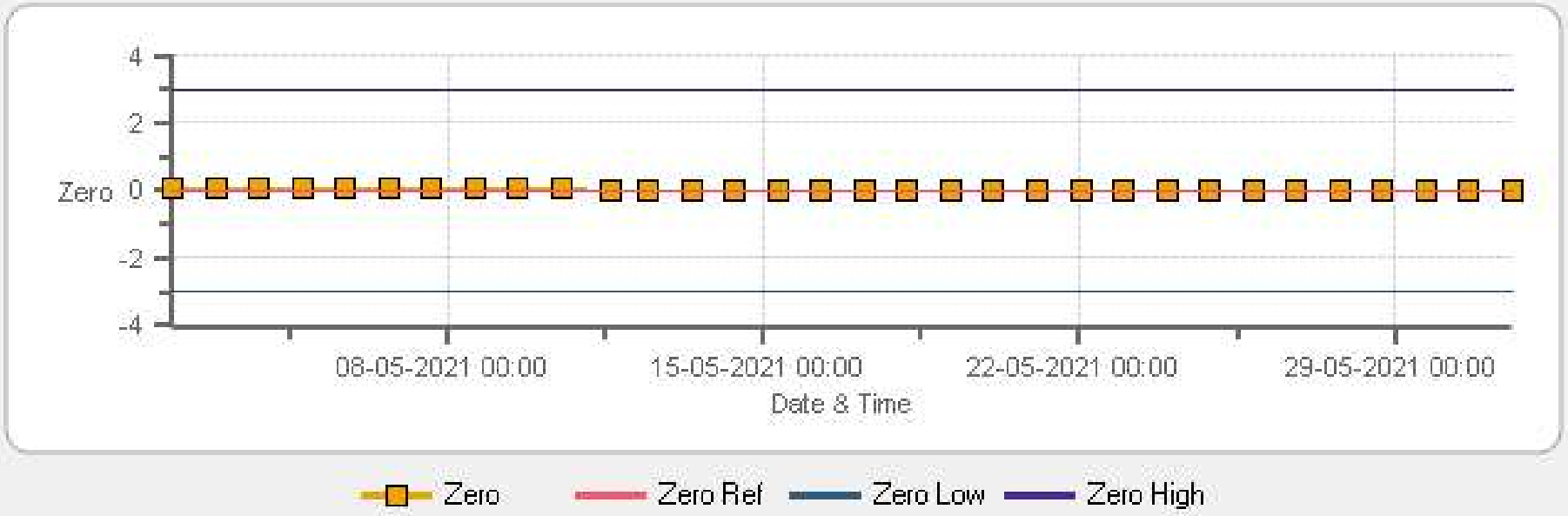
THC55[ppm] Calibration: PRAMP RENO Monthly: 05-2021 Type: SpanAndZero - Zero



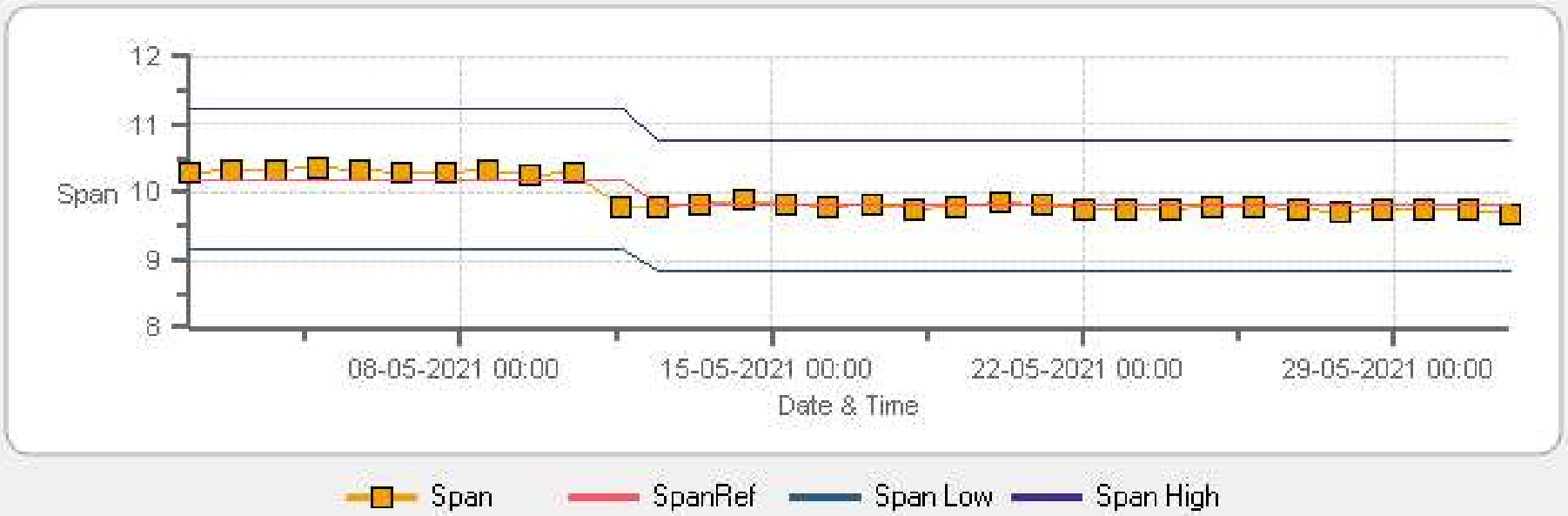
THC55[ppm] Calibration: PRAMP RENO Monthly: 05-2021 Type: SpanAndZero - Span



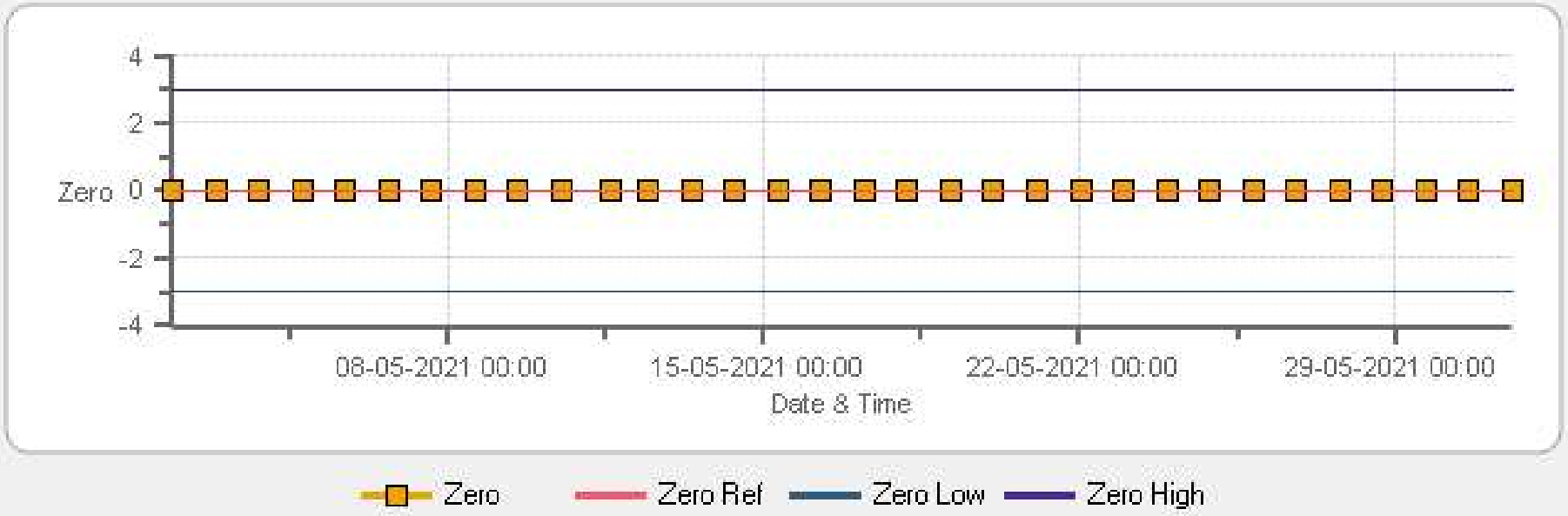
CH4[ppm] Calibration: PRAMP RENO Monthly: 05-2021 Type: SpanAndZero - Zero



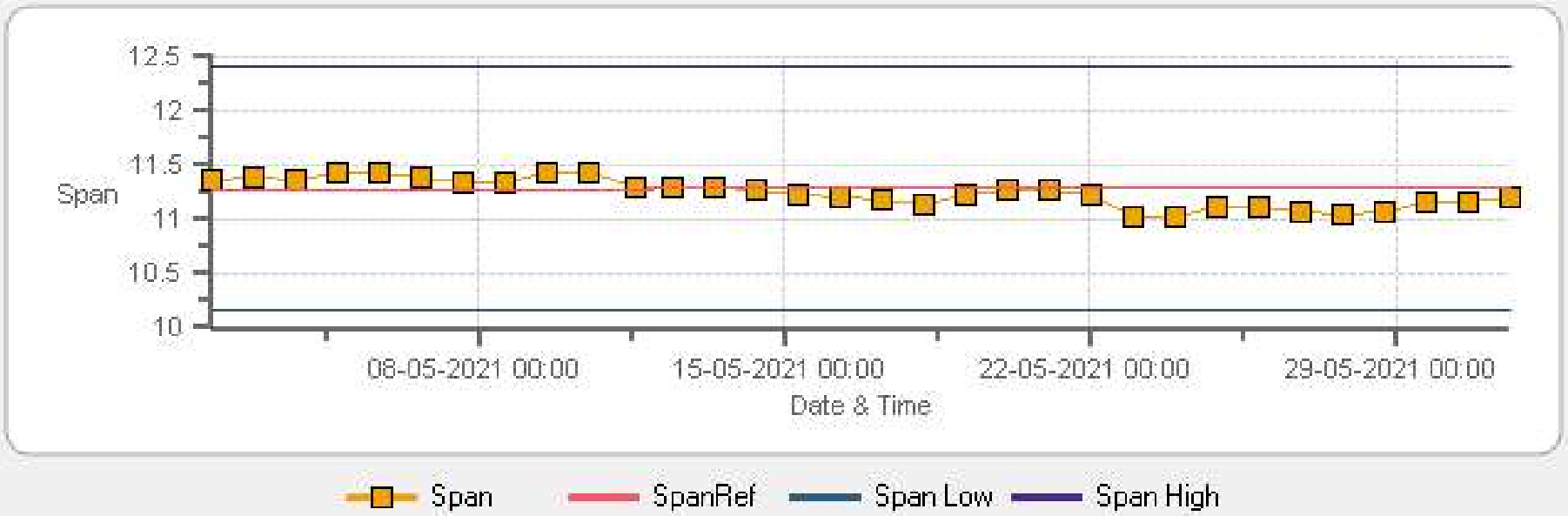
CH4[ppm] Calibration: PRAMP RENO Monthly: 05-2021 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP RENO Monthly: 05-2021 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP RENO Monthly: 05-2021 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	11-May-2021	PREVIOUS CALIBRATION DATE:	05-Apr-2021
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	24.9
LOCATION:	Reno	BAROMETRIC (mBar):	946
PURPOSE	Routine	START TIME (MST):	08:24
PERFORMED BY:	Limin Li	END TIME (MST):	12:13

ANALYZER:

MAKE/MODEL	API 100A	RANGE	500 ppb
SERIAL #	1502	FLOW (mL/min)	659
INITIAL		FINAL	
BKG/OFFSET	79.8	BKG/OFFSET	79.8
COEF/SLOPE	1.056	COEF/SLOPE	1.04
Expected (reference) Value	237.1	Expected (reference) Value	228.7

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	16-Mar-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0001011	HIGH ID	n/a
CONC (ppm):	50.10	EXPIRY DATE	n/a
CYLINDER (psi):	450	LOW ID	n/a
EXPIRY DATE	01-Jul-2027	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 (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
6000		6000	0.00	-0.4	0		
5955	45.50	6000	379.93	385	380	0.986	1.000
5978	21.60	6000	180.36	n/a	179.5	n/a	1.005
5989	10.80	6000	90.18	n/a	89.5	n/a	1.008

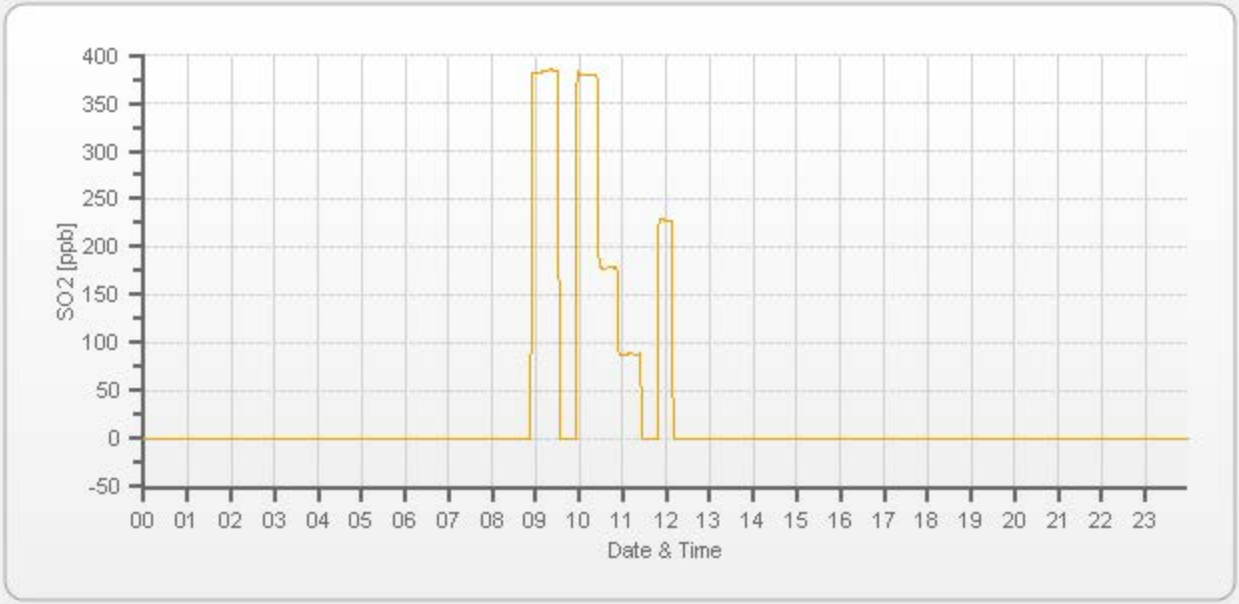
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

SO2[ppb] Station: PRAMP RENO Daily: 11-05-2021 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	11-May-2021	PREVIOUS CALIBRATION DATE:	05-Apr-2021
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	24.9
LOCATION:	Reno	BAROMETRIC (mBar):	946
PURPOSE	Routine	START TIME (MST):	08:24
PERFORMED BY:	Limin Li	END TIME (MST):	13:54

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100 ppb
SERIAL #	1162460022	FLOW (mL/min)	412
INITIAL		FINAL	
BKG/OFFSET	3.25	BKG/OFFSET	3.04
COEF/SLOPE	1.079	COEF/SLOPE	0.985
Expected (reference) Value	43.94	Expected (reference) Value	40.08

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	Teledyne
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	18-Mar-2021	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):	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:	08:53	SO2 Conc (ppb)	380
END TIME:	09:13	Analyzer Response (ppb)	0.2

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	0.03	0		
7442	58.50	7500	78.00	84.5	78	0.923	1.000
7472	28.50	7500	38.00	n/a	37.9	n/a	1.003
7486	14.25	7500	19.00	n/a	18.8	n/a	1.011

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.
COnveter = CDN-101 #552

TRS[ppb] Station: PRAMP RENO Daily: 11-05-2021 Type: AVG 1 Min. [1 Min.]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	11-May-2021	PREVIOUS CALIBRATION DATE:	05-Apr-2021
CLIENT:	PRAMP	TEMPERATURE (°C):	21.3
LOCATION:	Reno	BAROMETRIC (mBar):	946
PURPOSE	Routine	START TIME (MST):	11:27
PERFORMED BY:	Limin Li	END TIME (MST):	14:59

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1505664392	1196
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.999	0.999	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL70331		HIGH ID:	n/a
MODEL:	2010	MODEL:	701	CH_4/C_3H_8 (ppm):	909.0	308.0	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	1700		LOW ID:	n/a
MFC CALIBRATION DATE:	16-Mar-2021	OXIDIZER ID:	111	EXPIRY DATE	21-Jan-2028		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	847.0
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1756.0

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	10.20	11.28	21.48		9.80	11.29	21.09

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3500		3500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
3444	55.80	3500	14.49	13.50	28.00	14.99	13.65	28.64	14.48	13.54	28.02	0.967	0.989	0.978	1.001	0.997	0.999
3472	27.90	3500	7.25	6.75	14.00	n/a	n/a	n/a	7.26	6.81	14.07	n/a	n/a	n/a	0.998	0.991	0.995
3486	13.90	3500	3.61	3.36	6.97	n/a	n/a	n/a	3.65	3.49	7.14	n/a	n/a	n/a	0.989	0.964	0.977

LINEAR REGRESSION ANALYSIS:

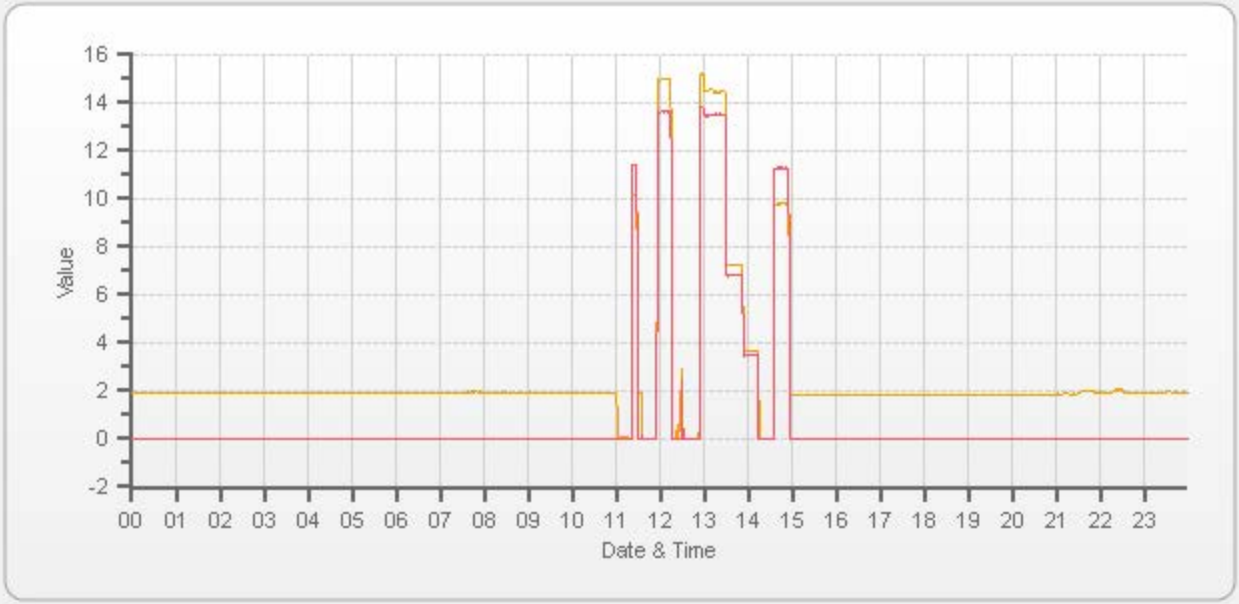
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	0.998	0.1%
NMHC	1.000	1.000	0.3%
THC	1.000	0.999	0.2%

Comments:

Sample filter changed.

Use Zero Chrom? **No**

Station: PRAMP RENO Daily: 11-05-2021 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	May 11, 2021		
Technician:	Limin Li		
Station:	PRAMP Reno		
Unit:	**Make:**	**Model:**	**Serial #:**
Precipitation Sampler:	RM Young	52202	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	

TIP TEST - Slowly pour water until 10 tip are heard. (10 tips = 1 ml)

# of Tips	**Data Logger Response (ml):**	**Manual Specification = +/- 0.1 ml**
10	0.80	0.20

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	April 5, 2021	
Parameter:	Temperature @ 2 metres	
Reference Thermometer ID:	FS 160459244 expires June 10, 2021	
Reference Temperature (^{o}C):	9.6	
Station - Ambient Temperature (^{o}C):	9.4	
Temperature Difference (^{o}C):	0.2	

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	April 5, 2021	
Reference Barometer ID:	Brunton 05490 expires Jan 12, 2022	
Reference Pressure - Units/Reading:	millibar	946.2
Station Pressure - Units/Reading:	millibar	946.5
Pressure Tolerance +/- 15% of error:	804 - 1088	-0.03%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	April 5, 2021	
Reference Hygrometer ID:	FS 160459244 expires June 10, 2021	
Reference Hygrometer % RH- Reading:	71.80	
Station Hygrometer % RH- Reading:	64.80	
RH Tolerance +/- 15% of difference:	61.03 - 82.57	9.7%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	April 5, 2021	Previous check date:	April 5, 2021
Wind Speed Observed (kph):	0~5	Wind Direction Observed:	NW
Wind speed on Data Logger (kph):	2.6	Wind Direction on Data Logger:	NW
		Wind Direction Pass/Fail?:	Pass

Comments

Tip-test result to be confirmed at next visit.

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	Reno	**Reviewed By:**	Ferdinand Roy
Audit Date:	June 17, 2020	**Start/End Time (mst):**	16:12 / 17:13
Calibration Purpose:	routine annual	**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

MAY 2021

Ambient Air Monitoring Calibration Report

- AQHI - CADOTTE LAKE STATION-

CAL-PRAMP-202105-01651

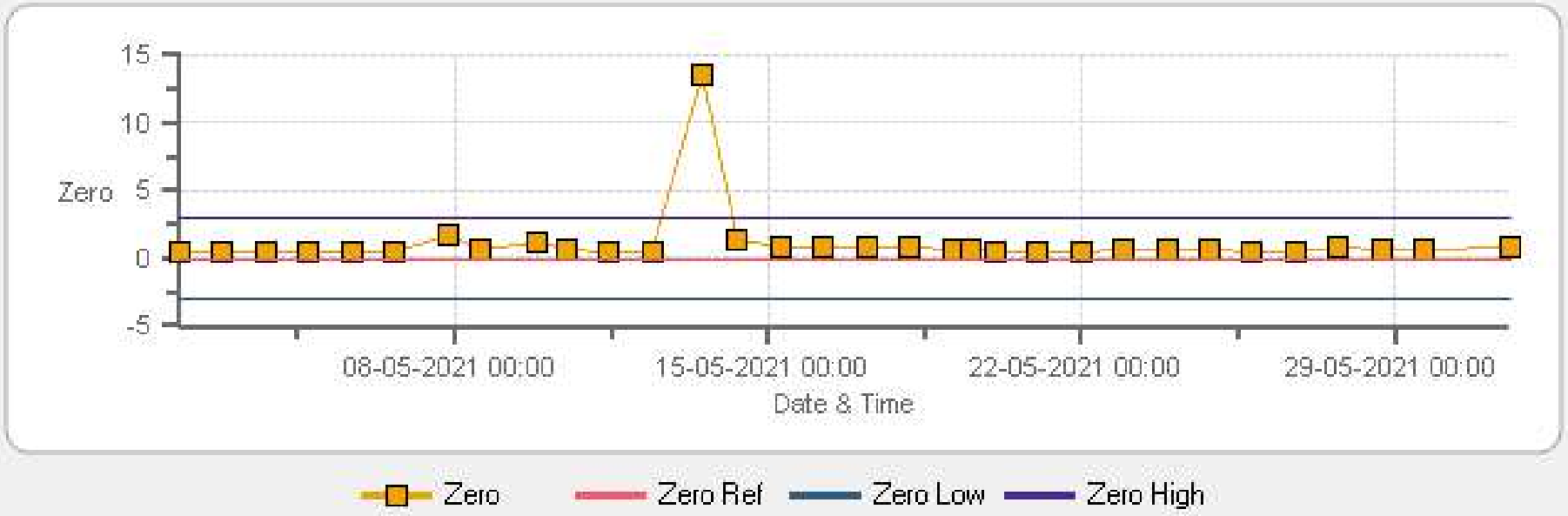
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

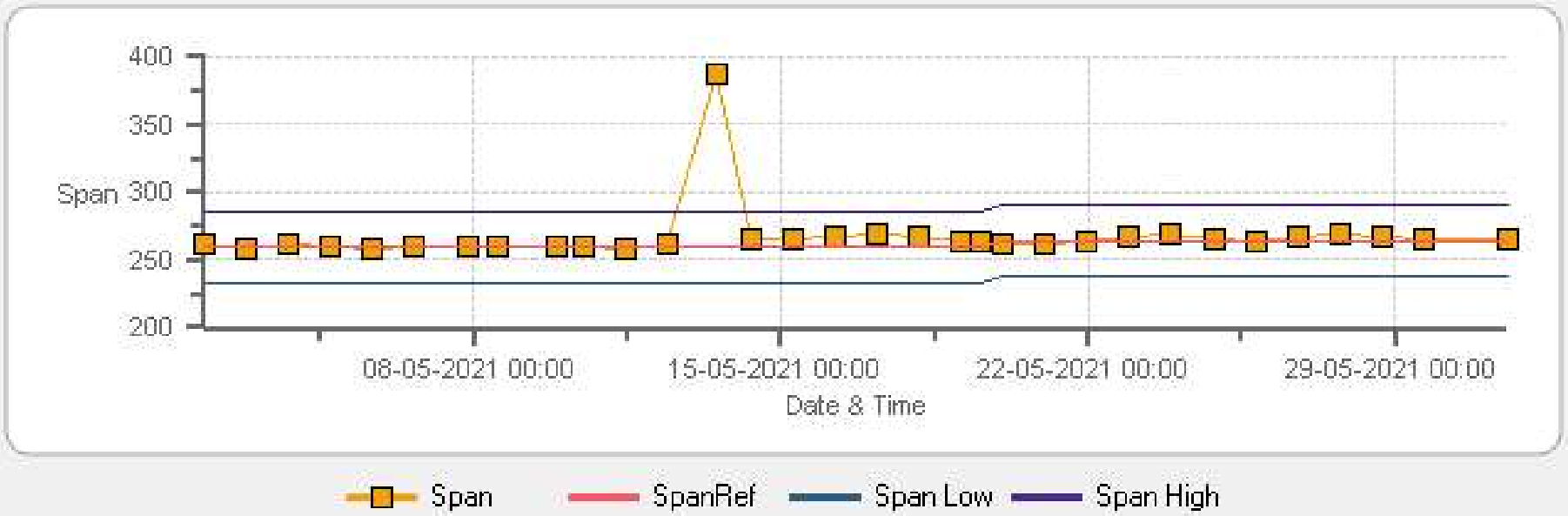
June 16, 2021

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

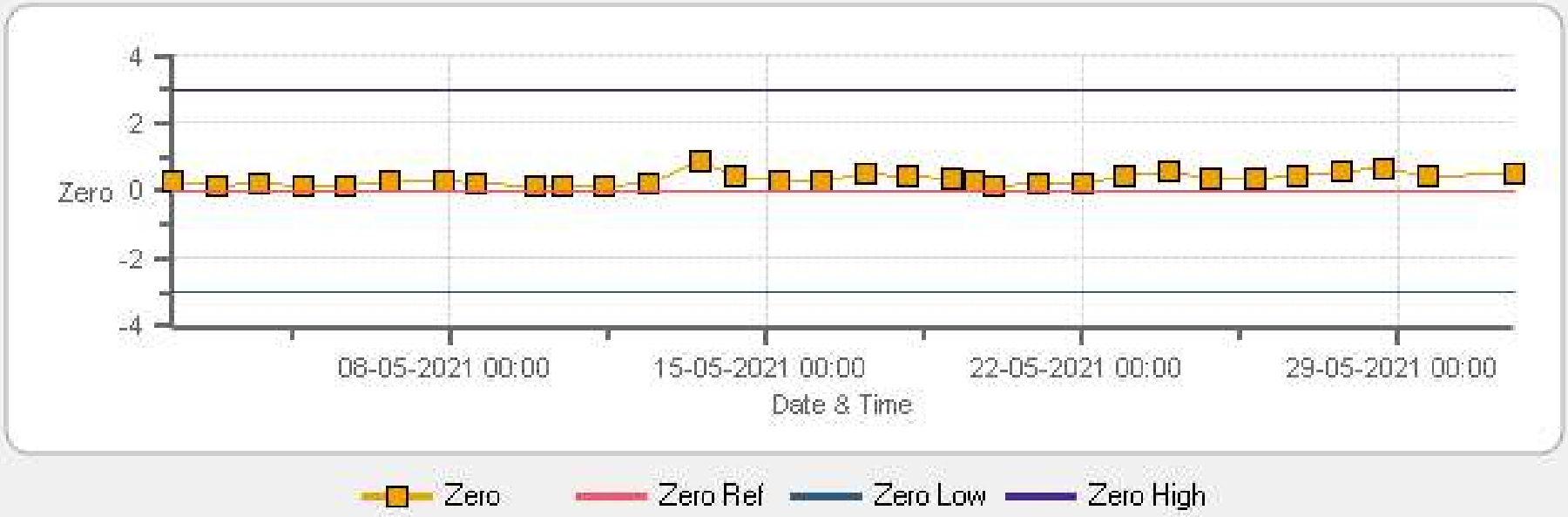
SO2[ppb] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Zero



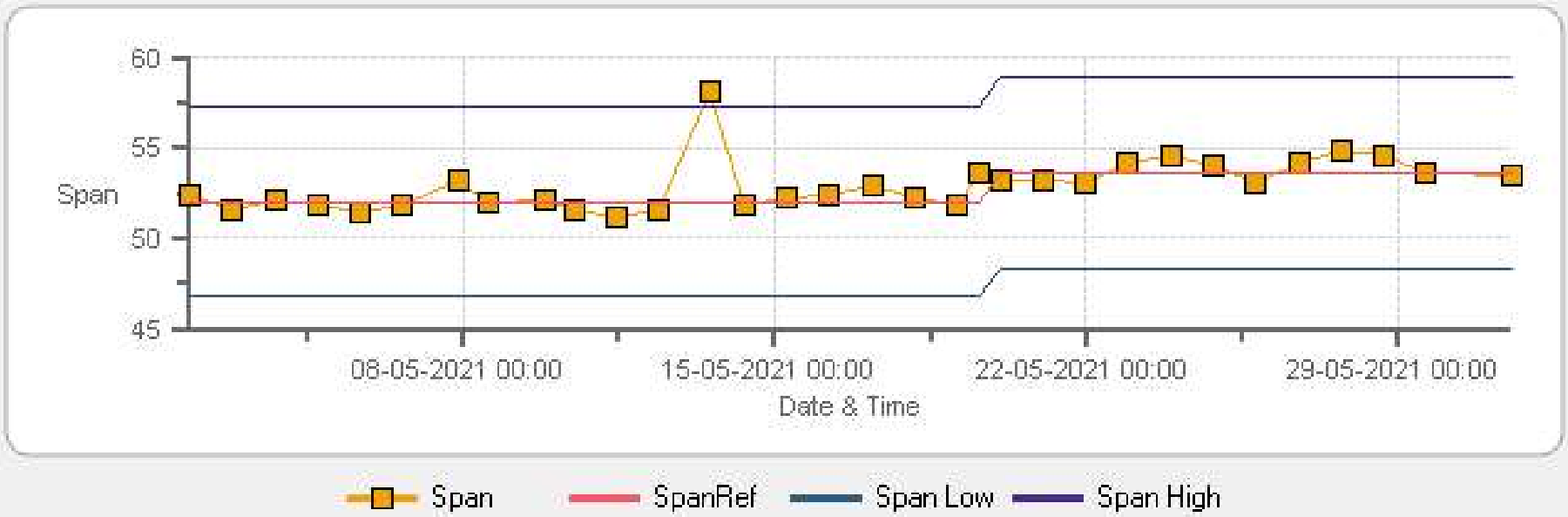
SO2[ppb] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Span

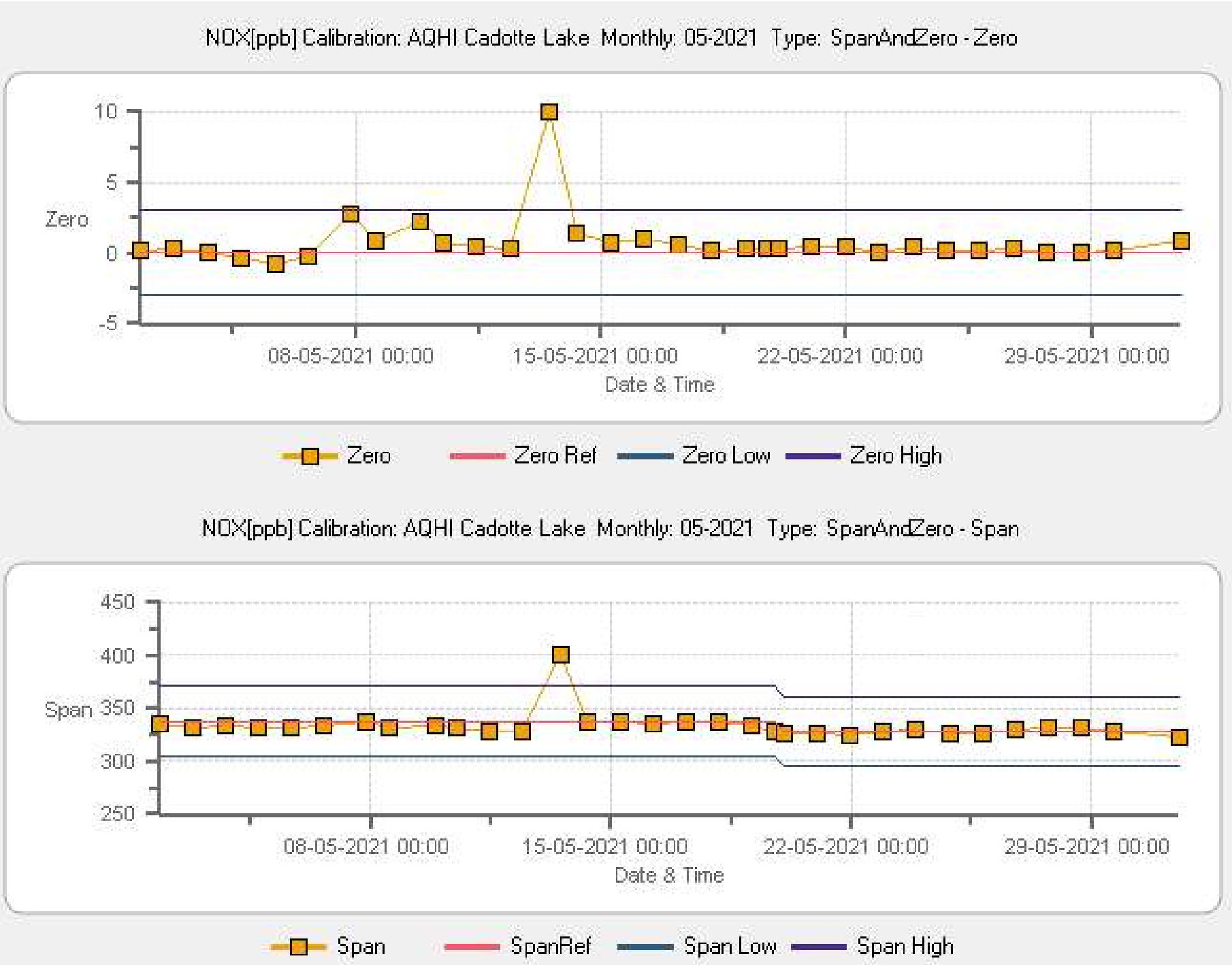


TRS[ppb] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Zero

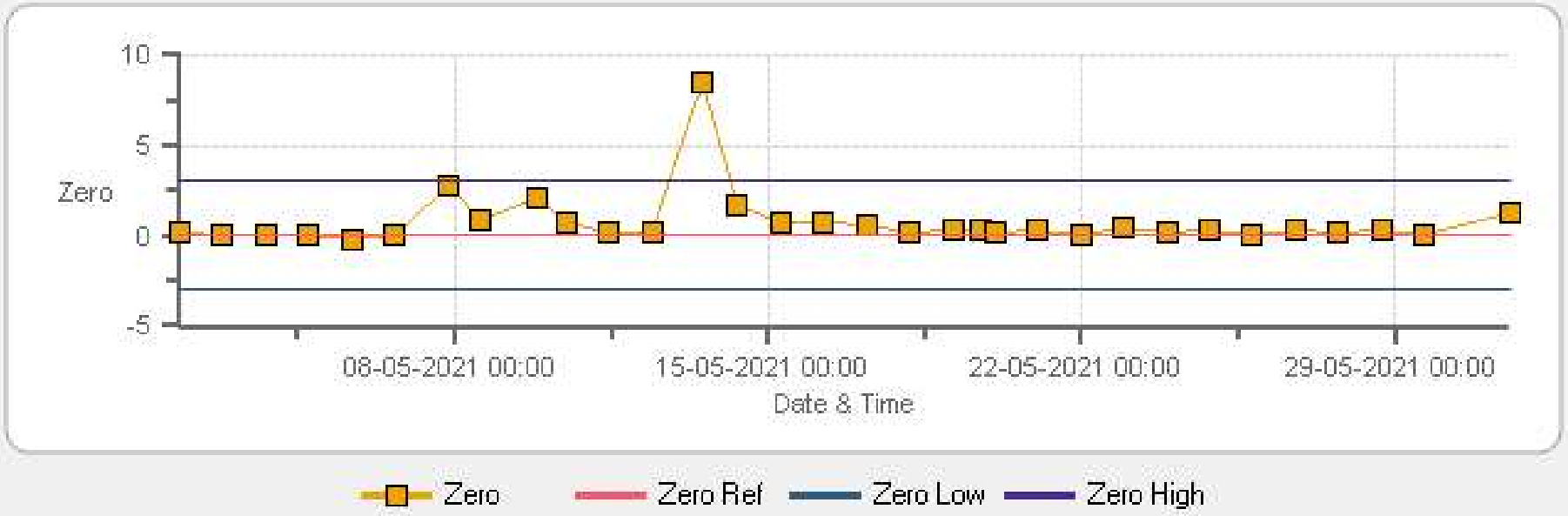


TRS[ppb] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Span

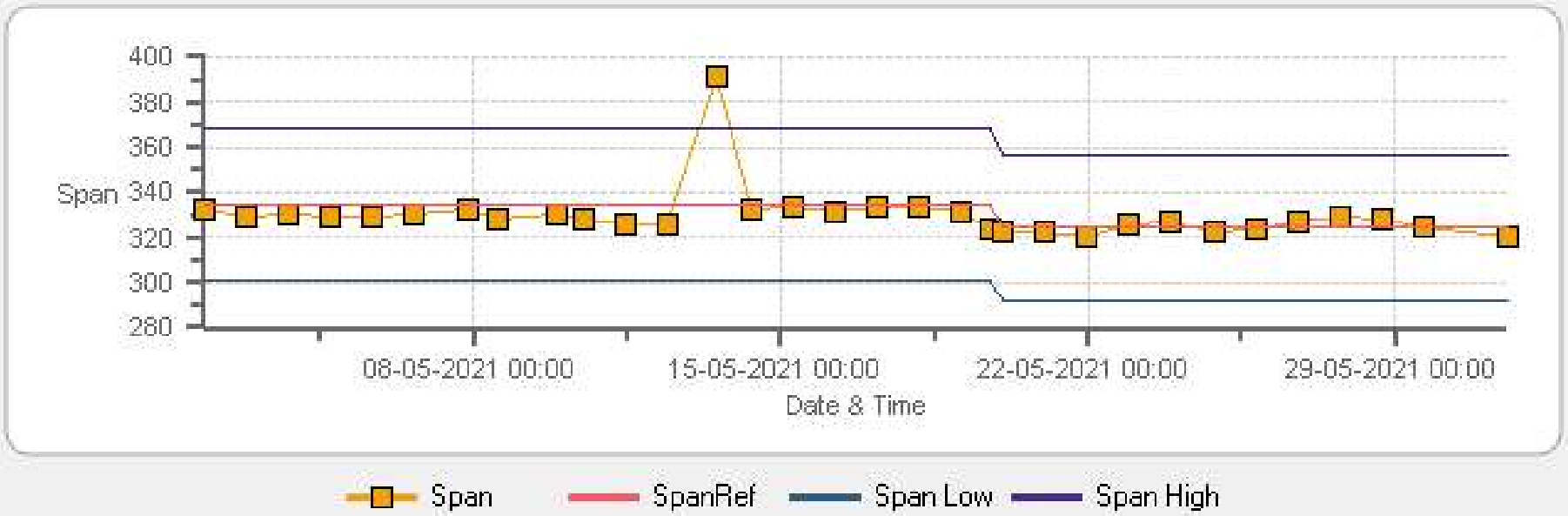


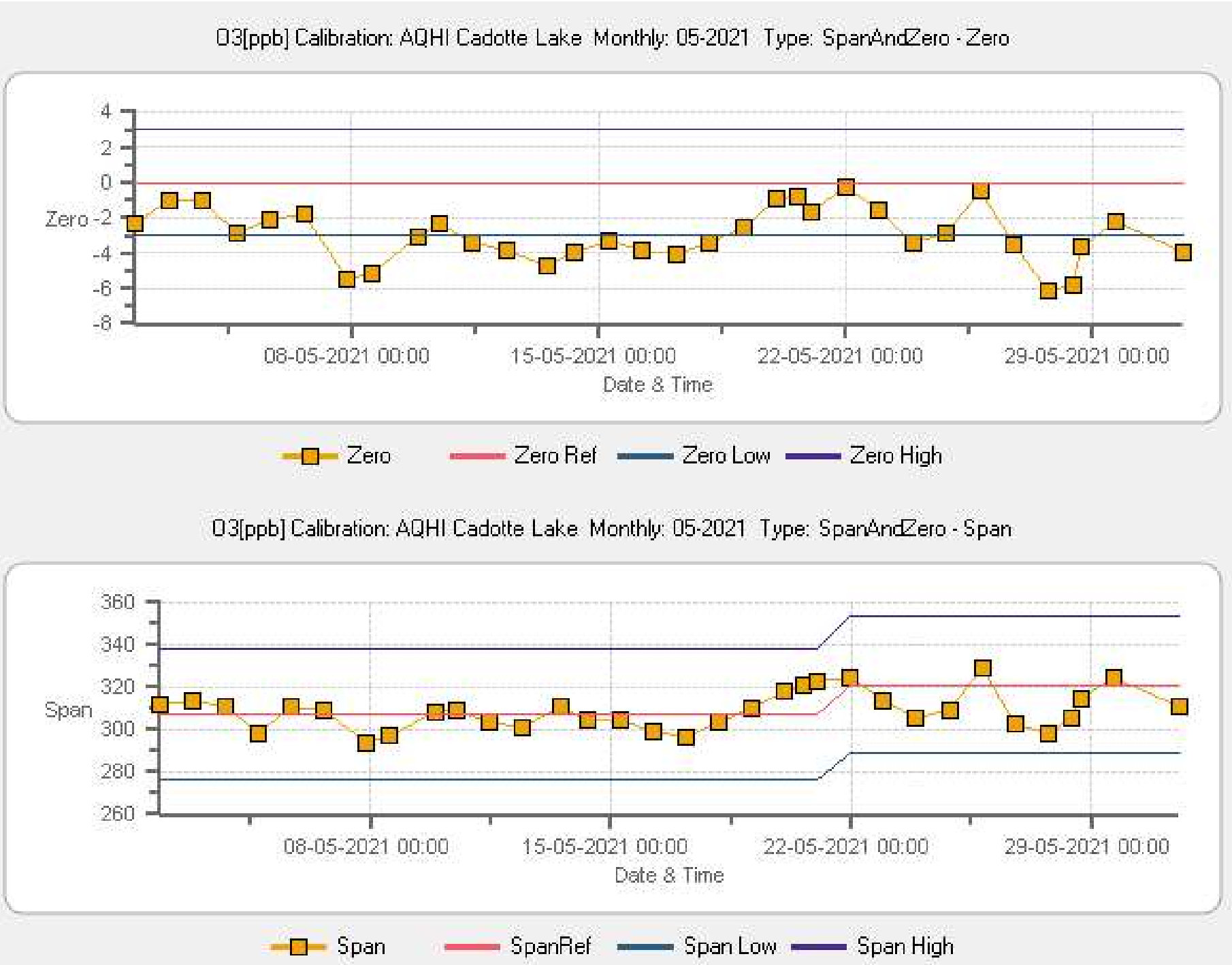

NOX[ppb] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Zero
10
5
0
-5
Zero
08-05-2021 00:00
15-05-2021 00:00
22-05-2021 00:00
29-05-2021 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NOX[ppb] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Span
450
400
350
300
250
Span
08-05-2021 00:00
15-05-2021 00:00
22-05-2021 00:00
29-05-2021 00:00
Date & Time
Span
SpanRef
Span Low
Span High

NO2[ppb] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Zero

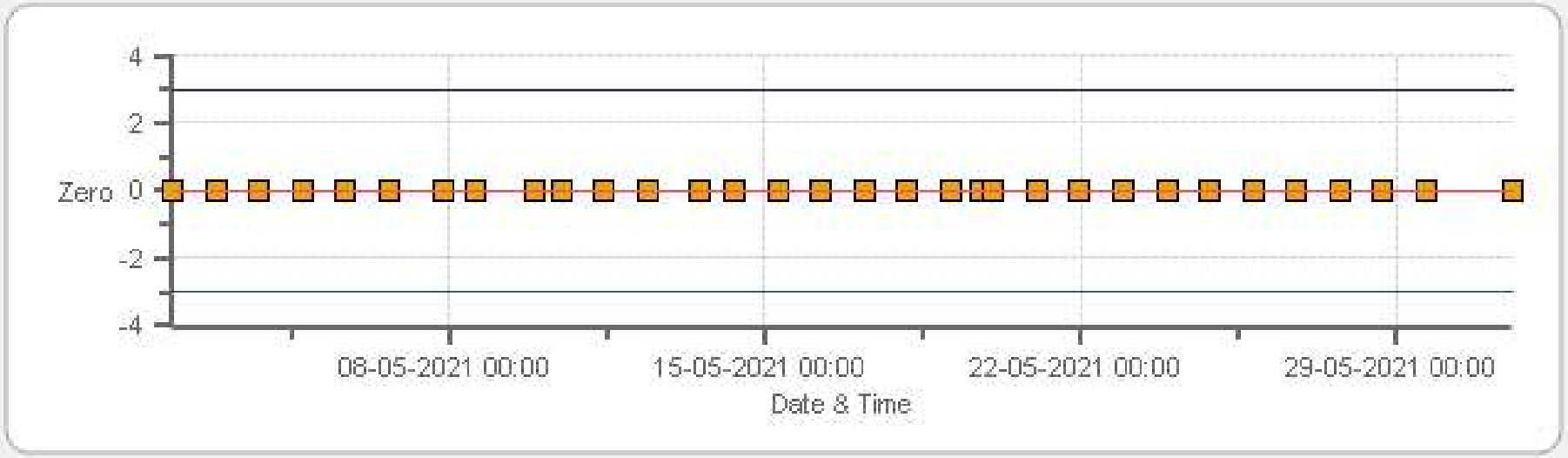


NO2[ppb] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Span

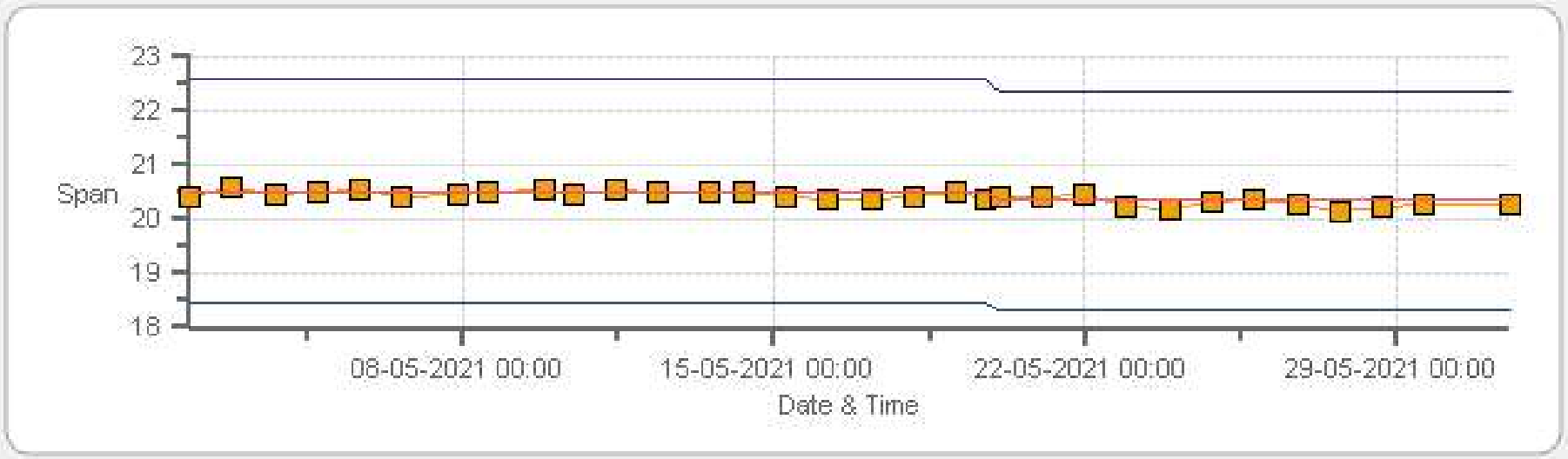



O3[ppb] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Zero
4
2
0
-2
-4
-6
-8
Zero
08-05-2021 00:00
15-05-2021 00:00
22-05-2021 00:00
29-05-2021 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
O3[ppb] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Span
360
340
320
300
280
260
Span
08-05-2021 00:00
15-05-2021 00:00
22-05-2021 00:00
29-05-2021 00:00
Date & Time
Span
SpanRef
Span Low
Span High

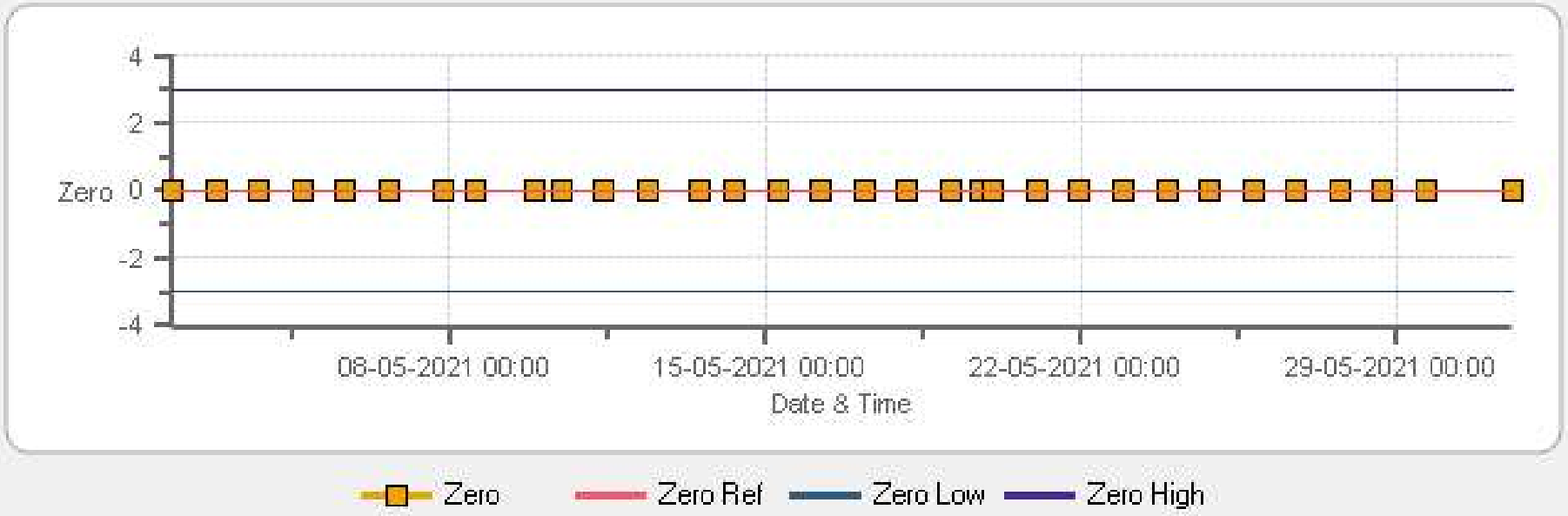
THC55[ppm] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Zero



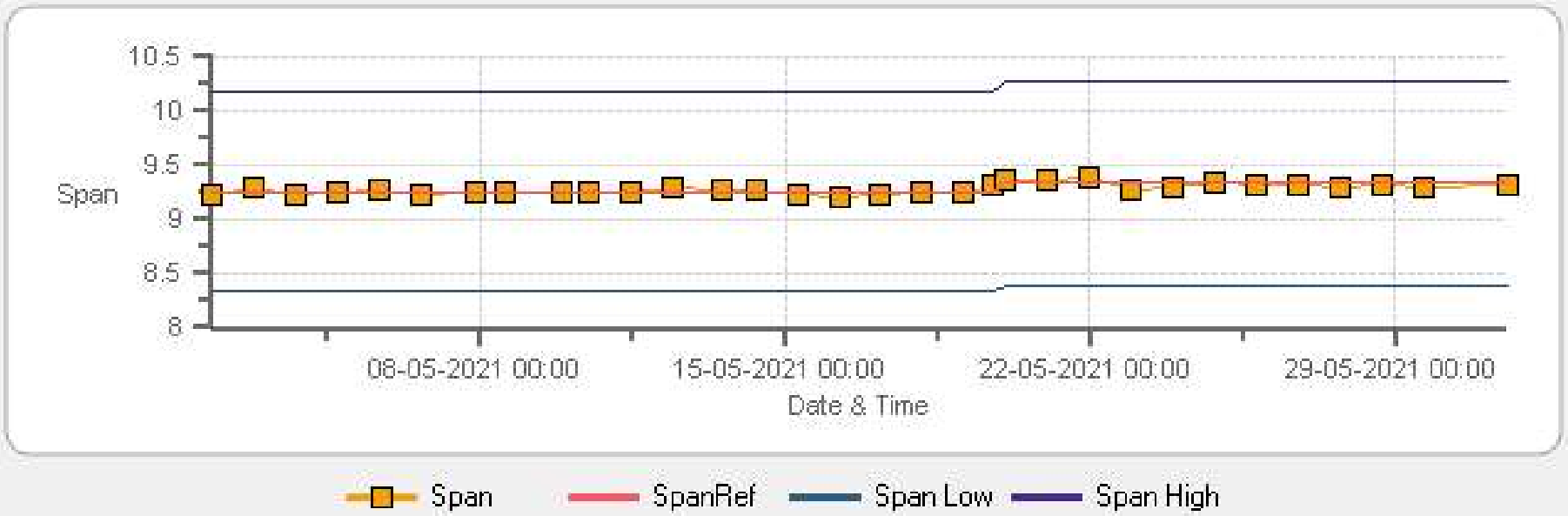
THC55[ppm] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Span



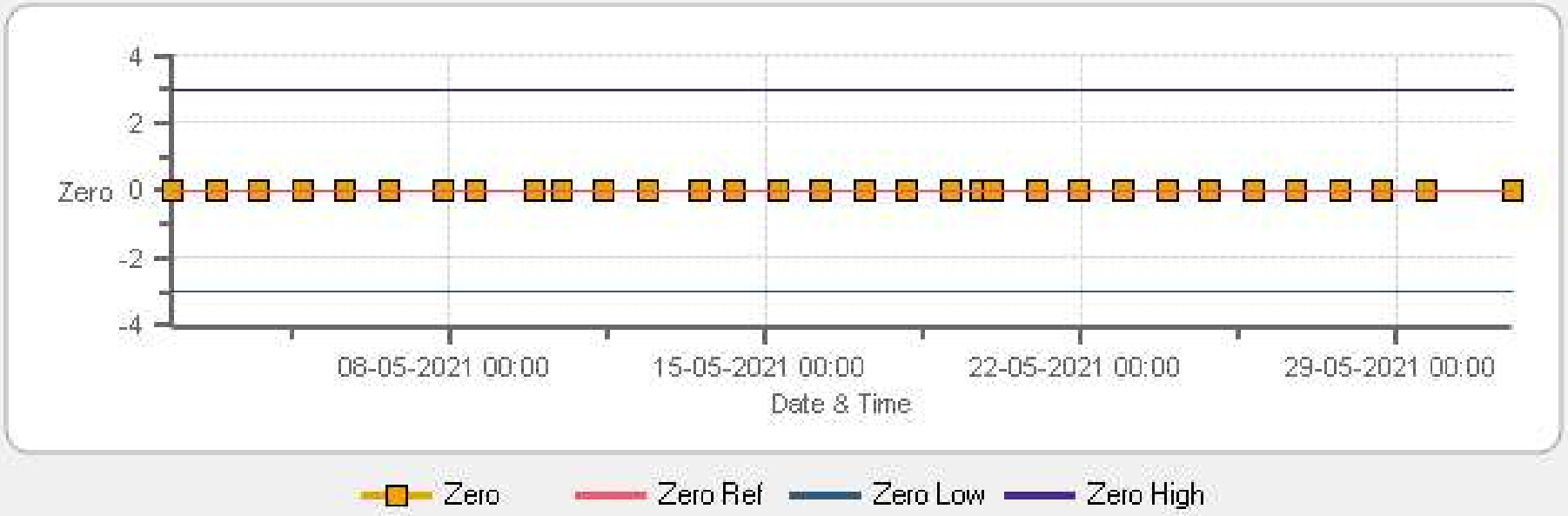
CH4[ppm] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Zero



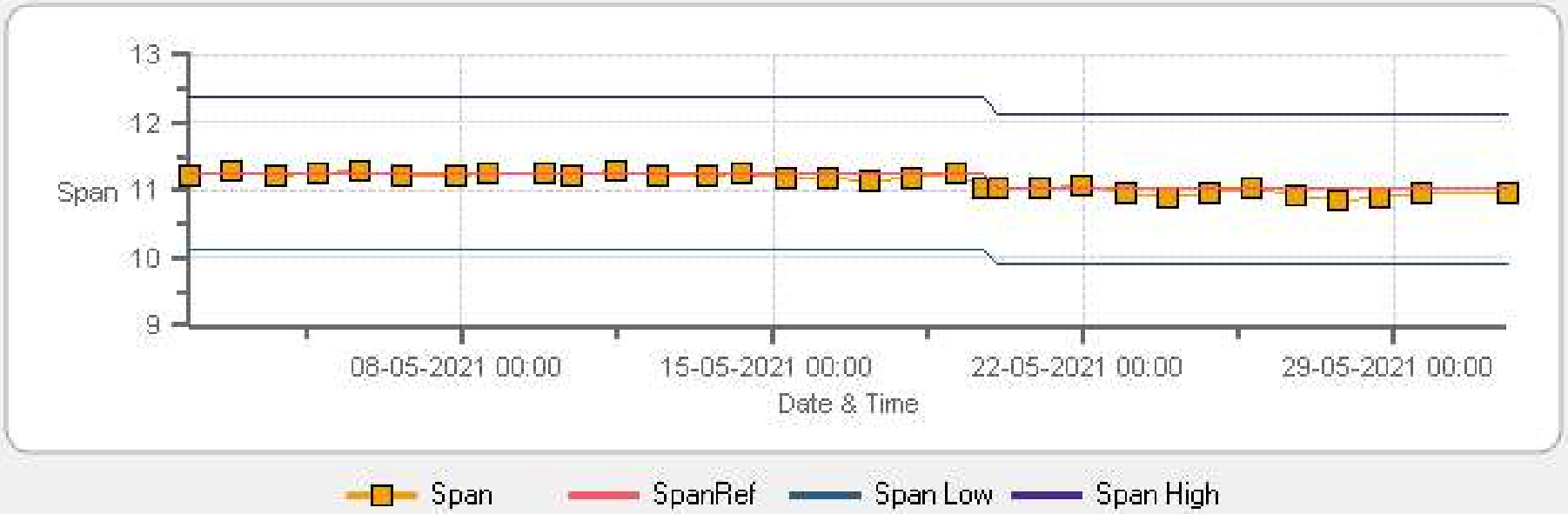
CH4[ppm] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Span



NMHC[ppm] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: AQHI Cadotte Lake Monthly: 05-2021 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	19-May-2021	PREVIOUS CALIBRATION DATE:	20-Apr-2021
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.995
CLIENT:	PRAMP	TEMPERATURE (°C):	24.4
LOCATION:	Cadotte Lake	BAROMETRIC (mBar):	950
PURPOSE	Routine	START TIME (MST):	09:02
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	13:16

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	531
INITIAL		FINAL	
BKG/OFFSET	19.4	BKG/OFFSET	19.6
COEF/SLOPE	0.921	COEF/SLOPE	0.929
Expected (reference) Value	259.3	Expected (reference) Value	264.1

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	API
MODEL:	2010	MODEL:	701
ID:	17100415	ID:	850
MFC CALIBRATION DATE:	23-Mar-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):	1050	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 (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4997		4997	0.00	0.2	0		
4958	38.80	4997	383.57	378.1	383.6	1.015	1.000
4981	17.70	4999	174.91	n/a	173.9	n/a	1.006
4989	8.80	4998	86.98	n/a	86.7	n/a	1.003

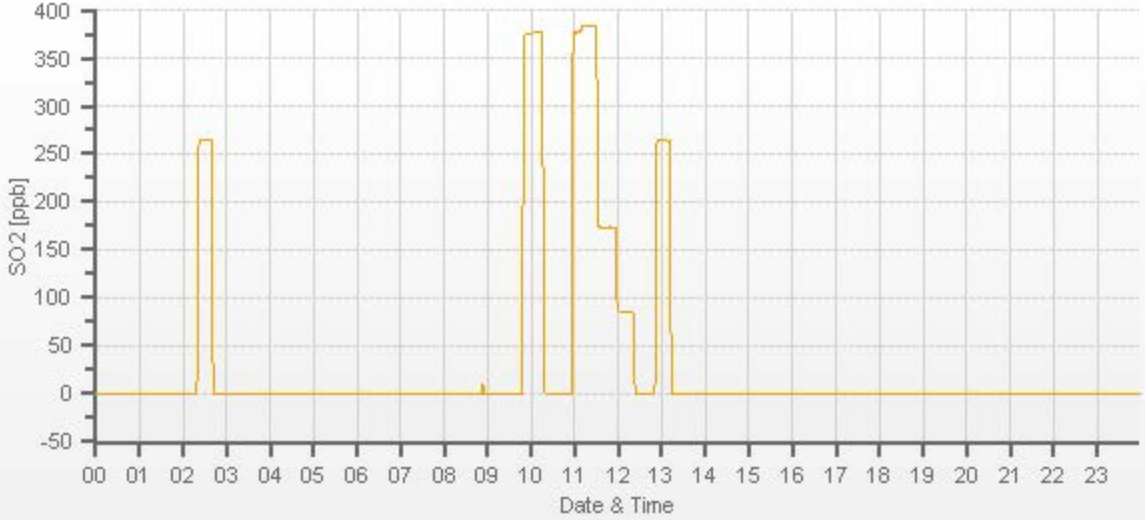
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	-0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

SO2[ppb] Station: AQHI Cadotte Lake Daily: 19-05-2021 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	19-May-2021	PREVIOUS CALIBRATION DATE:	20-Apr-2021
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	24.4
LOCATION:	Cadotte Lake	BAROMETRIC (mBar):	950
PURPOSE	Routine	START TIME (MST):	09:02
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:28

ANALYZER:

MAKE/MODEL	Teledyne T100U	RANGE	100 ppb
SERIAL #	132	FLOW (mL/min)	521
INITIAL		FINAL	
BKG/OFFSET	22.1	BKG/OFFSET	22.1
COEF/SLOPE	0.968	COEF/SLOPE	1.012
Expected (reference) Value	52.01	Expected (reference) Value	53.57

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	701
ID:	1991	ID:	850
MFC CALIBRATION DATE:	23-Mar-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002472	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	1890	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	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:	09:50	SO2 Conc (ppb)	380
END TIME:	10:08	Analyzer Response (ppb)	0.3

CALIBRATION:

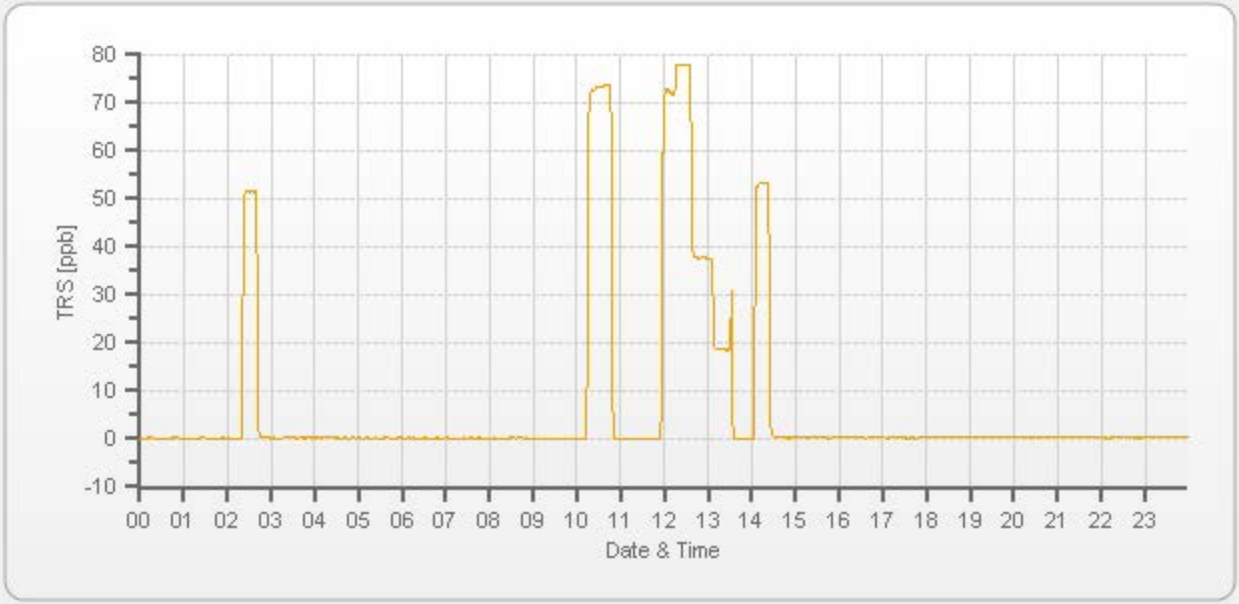
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001		4001	0.00	-0.88	0		
3966	33.16	3999	78.02	74.09	78.05	1.041	1.000
3984	16.15	4000	38.00	n/a	37.81	n/a	1.005
3991	8.09	3999	19.03	n/a	18.86	n/a	1.009

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.


TRS[ppb] Station: AQHI Cadotte Lake Daily: 19-05-2021 Type: AVG 1 Min. [1 Min.]
TRS [ppb]
80
70
60
50
40
30
20
10
0
-10
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
TRS [ppb]

NOx Calibration by Dilution/Gas-Phase Titration

CALIBRATION:

				ANALYZER:			
DATE:	19-May-2021	PREVIOUS CALIBRATION DATE:	20-Apr-2021	MAKE/MODEL:	Teledyne T200	PREVIOUS CF.	
CLIENT:	PRAMP	TEMPERATURE (°C):	24.4	SERIAL #:	837	NOx	1.000
LOCATION:	Cadotte Lake	BAROMETRIC (mBar):	950	FLOW (mL/min)	451	NO	1.000
PURPOSE	Routine	START TIME (MST):	09:02	RANGE (ppb)	500	NO2	1.005
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	18:07	GPT FOR O3?		Yes	

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	CYLINDER ID:	EY0002493		HIGH ID:	n/a
MODEL:	2010	MODEL:	701	NO/NOx (PPM):	50.9	51.1	HIGH EXPIRY:	n/a
ID:	17100415	ID:	850	CYLINDER (psi):	1050		LOW ID:	n/a
MFC CALIBRATION DATE:	23-Mar-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:	0.5	-0.1	n/a	BKG/OFFSET:	0	-0.1	n/a
SLOPE/COEF/CE:	1.104	1.094	0.9993	SLOPE/COEF/CE:	1.081	1.077	0.9993

EXPECTED (REFERENCE) VALUE:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	337.5	2.9	334.6		327.6	3.4	324.2

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 (mL/min)			CONCENTRATION (ppb)									CORRECTION FACTOR (CF.)					
			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
4997		4997	0.0	0.0	0.0	0.0	-0.4	-0.3	0.0	0.0	0.0						
4958	38.80	4997	395.2	396.8	1.6	386.6	389.0	2.4	395.2	396.8	1.6	1.022	1.019		1.000	1.000	
4981	17.70	4999	180.2	180.9	0.7	n/a	n/a	n/a	179.8	179.6	-0.2	n/a	n/a		1.002	1.007	
4989	8.80	4998	89.6	90.0	0.4	n/a	n/a	n/a	89.1	89.3	0.1	n/a	n/a		1.006	1.008	

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	4997	0	395.0	395.0	0.0				
AS-FOUND HIGH	38.80	4997	250	143.1	396.0	253.0	251.9	253	0.996	100.44%
ADJUSTED HIGH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**n/a**	**n/a**	n/a
MID	38.80	4997	147	245.5	398.2	152.8	149.5	152.8	0.978	102.21%
LOW	38.80	4997	48	343.3	396.1	52.8	51.7	52.8	0.979	102.13%
NO2 adjustment not required.									AVERAGE:	101.59%

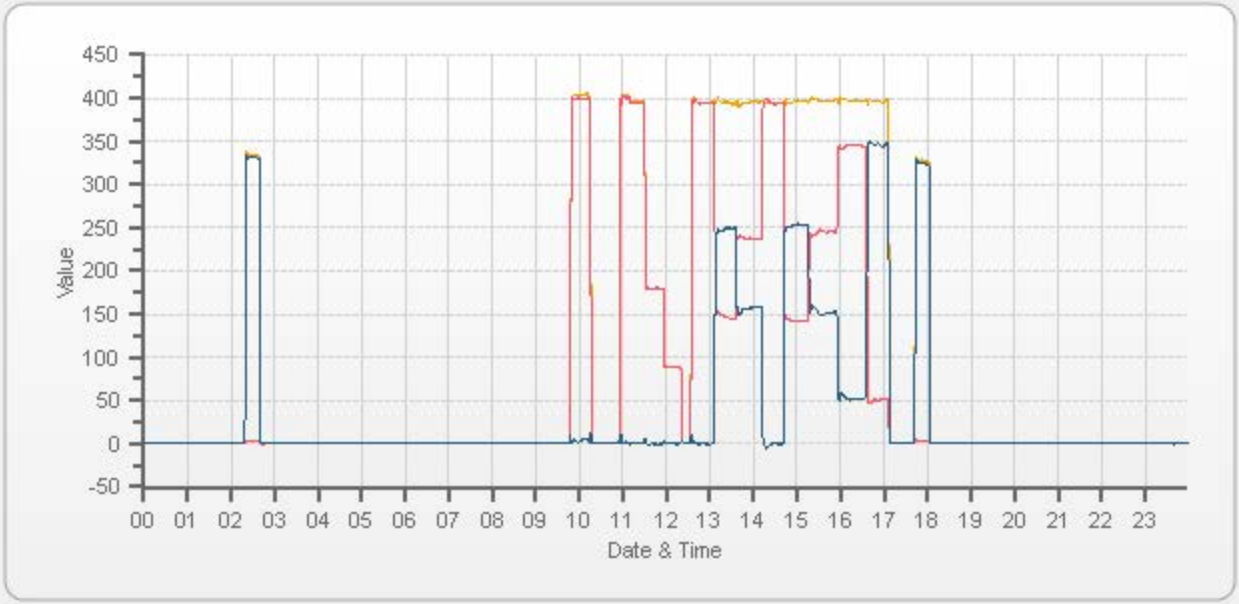
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
NO	1.000	1.000	-0.06%
NOx	1.000	1.000	-0.11%
NO2	1.000	1.000	0.37%

COMMENTS:

Sample filter changed.
12:34-14:12 = 1st GPT attempt. Mid-point O3 setting too high. Restarted GPT at reference point.
Extra O3 SETPOINT = 340; NO DROP/O3 = 344.2

Station: AQHI Cadotte Lake Daily: 19-05-2021 Type: AVG 1 Min. [1 Min.]



Ozone Calibration by Direct GPT

DATE:	20-May-2021	PREVIOUS CALIBRATION DATE:	21-Apr-2021
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.1
LOCATION:	Cadotte Lake	BAROMETRIC (mBar):	954
PURPOSE	As-Found	START TIME (MST):	08:15
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	09:55

ANALYZER:

MAKE/MODEL	Teledyne T400	RANGE	500 ppb
SERIAL #	824	FLOW (mL/min)	767
INITIAL		FINAL	
BKG/OFFSET	-1.1	BKG/OFFSET	n/a
COEF/SLOPE	1.051	COEF/SLOPE	n/a
Expected (reference) Value	307.1	Expected (reference) Value	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	API
MODEL:	2010	MODEL:	701
ID:	17100415	ID:	850
MFC CALIBRATION DATE:	23-Mar-2021	OXIDIZER ID:	n/a
	CALIBRATION METHOD:	Direct GPT	
GPT DATE:	19-May-2021	GPT END TIME:	17:05

CALIBRATION PARAMETERS:

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
DILUENT	GAS	TOTAL	ACTUAL	INDICATED Initial	INDICATED Final	Initial	Final
4997		4997	0.0	0.1	n/a		
4997		4997	344.2	349.1	n/a	0.986	n/a
4997		4997	**149.5**	152.7	n/a	0.980	n/a
4997		4997	51.7	51.5	n/a	1.006	n/a

LINEAR REGRESSION ANALYSIS:

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

COMMENTS:

Multi-point As-found to check O3 analyzer response using API701 zero air in calibration system.

Ozone Calibration by Direct GPT

DATE:	20-May-2021	PREVIOUS CALIBRATION DATE:	21-Apr-2021
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.1
LOCATION:	Cadotte Lake	BAROMETRIC (mBar):	954
PURPOSE	Routine	START TIME (MST):	11:33
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	15:21

ANALYZER:

MAKE/MODEL	Teledyne T400	RANGE	500 ppb
SERIAL #	824	FLOW (mL/min)	767
INITIAL		FINAL	
BKG/OFFSET	-1.1	BKG/OFFSET	-0.4
COEF/SLOPE	1.051	COEF/SLOPE	1.084
Expected (reference) Value	307.1	Expected (reference) Value	321.2

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Thermo
MODEL:	2010	MODEL:	111
ID:	17100415	ID:	111-33575-245
MFC CALIBRATION DATE:	23-Mar-2021	OXIDIZER ID:	n/a
	CALIBRATION METHOD:	Direct GPT	
GPT DATE:	20-May-2021	GPT END TIME:	11:33

CALIBRATION PARAMETERS:

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4997		4997	0.0	0.4	0.0		
4997		4997	370.0	363.6	370.1	1.019	1.000
4997		4997	162.7	n/a	164.3	n/a	0.990
4997		4997	58.4	n/a	61.0	n/a	0.957

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.998	0.3%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.


O3[ppb] Station: AQHI Cadotte Lake Daily: 20-05-2021 Type: AVG 1 Min. [1 Min.]
O3 [ppb]
400
350
300
250
200
150
100
50
0
-50
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
O3 [ppb]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	19-May-2021	PREVIOUS CALIBRATION DATE:	21-Apr-2021
CLIENT:	PRAMP	TEMPERATURE (°C):	21.6
LOCATION:	Cadotte Lake	BAROMETRIC (mBar):	951
PURPOSE	Routine	START TIME (MST):	14:38
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	18:25

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1191032505	1086.3
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.998	0.998	0.998

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Environics	MAKE:	API	CYLINDER ID:	LL84567		HIGH ID:	n/a
MODEL:	2000	MODEL:	701	CH_4/C_3H_8 (ppm):	591.0	200.0	HIGH EXPIRY:	n/a
ID:	1991	ID:	850	CYLINDER (psi):	900		LOW ID:	n/a
MFC CALIBRATION DATE:	23-Mar-2021	OXIDIZER ID:	00941	EXPIRY DATE	17-Jul-2027		LOW EXPIRY:	n/a

CALIBRATION PARAMETERS:

POINT (CH4/NMHC)	HIGH	MID	LOW	CH4 EQUIVILANCE	
TARGET	14	7	3.5	C_3H_8 as CH_4	550.0
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1141.0

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	9.26	11.26	20.52		TBD	TBD	TBD

CALIBRATION:

FLOW RATE (mL/min)			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
			CALCULATED			INITIAL INDICATED			FINAL INDICATED			INITIAL			FINAL		
DILUENT	GAS	TOTAL	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC	CH4	NMHC	THC
3001		3001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
2928	73.58	3002	14.48	13.48	27.96	14.40	13.91	28.31	14.51	13.53	28.04	1.006	0.969	0.988	0.998	0.996	0.997
2964	36.79	3000	7.25	6.74	13.99	n/a	n/a	n/a	7.26	6.80	14.05	n/a	n/a	n/a	0.998	0.992	0.996
2982	18.36	3000	3.62	3.37	6.98	n/a	n/a	n/a	3.61	3.42	7.04	n/a	n/a	n/a	1.002	0.984	0.992

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.002	0.0%
NMHC	1.000	1.003	0.1%
THC	1.000	1.002	0.0%

Comments:

Operator error at 16:06 - forgot to update calibrator during high point adjust. Sample filter changed.

Use Zero Chrom? **Yes**

Station: AQHI Cadotte Lake Daily: 19-05-2021 Type: AVG 1 Min. [1 Min.]

Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	May 19, 2021	April 20, 2021	**Weather Conditions:**	Mainly cloudy with sunny breaks	
Company:	PRAMP		**Start Time (mst):**	12:55	
Station:	Cadotte Lake		**End Time (mst):**	13:31	
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)	713.5	Ambient Temp (°C)	6.9	ASC Heater Duty (%)	0.0
Box Temp (°C)	27.0	Current PMT HV (V)	1542	LED Temp (°C)	35.11
P3 Value	46	PMT Setting (V)	1547	Pump PWM (%)	40
Sample Flow (L/min)	4.95	Sample RH (%RH)	14.9	Sample Temp (°C)	25.0

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)	714.1	713.5	714.1	713.5	+/- 10 mm Hg
Ambient Temperature (°C)	6.10	7	n/a		+/- 2°C
Sample Flow (L/min)	5.03	5.01	5.02	4.98	+/-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:	May 19, 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:	April 20, 2021		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	F.S. 160348895 expires Sep 4, 2022		
Reference Temperature (°C):	3.5		
Station - Ambient Temperature (°C):	2.7		
Temperature Difference (°C):	0.8		
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	April 20, 2021		
Reference Hygrometer ID:	F.S. 160348895 expires Sep 4, 2022		
Reference Hygrometer % RH- Reading:	57.62		
Station Hygrometer % RH- Reading:	62.60		
RH Tolerance +/- 15% of difference:	48.98 - 66.26	-8.6%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	April 20, 2021	Previous check date:	April 20, 2021
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	NE
Wind speed on Data Logger (kph):	6.8	Wind Direction on Data Logger:	NE
		Wind Direction Pass/Fail?:	Pass

Comments

No issues. Temp/RH @10:18; WS/Wd @ 10:25

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	Cadotte Lake	**Reviewed By:**	Ferdinand Roy
Audit Date:	June 18, 2020	**Start/End Time (mst):**	14:28 / 15:15
Calibration Purpose:	installation	**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