Peace River Area Monitoring Program

FEBRUARY 2022

Monthly Ambient Air Quality Monitoring Report

PRAMP-202202

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

March 24, 2022

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Table of Contents

LIST OF ACRONYMS 4
COVER LETTER 5
NETWORK STATION SUMMARY 6
Listing of Continuous Monitoring Stations 6
Listing of Intermittent Monitoring Stations 6
Monitoring Notes during the Month of February 2022 6
986c Station 6
842b Station 6
Reno Station 7
AQHI – Grimshaw Station 7
VOCs Canister Sampling program: 7
Revisions to Alberta's Ambient Air Quality Data Warehouse 8
Deviations from Authorized Monitoring Methods 8
Disclaimer 8
Certification 9
Map of PRAMP Continuous Monitoring Network 10
CONTINUOUS NETWORK EQUIPMENT AND MONITORING RESULTS SUMMARY 11
986c Station 12
842b Station 15
Reno Station 19
AQHI – Grimshaw Station 23
TABLES, CHARTS, WIND ROSES AND EQUIPMENT CALIBRATION RECORDS 27
986c STATION 28
842b STATION 72
RENO STATION 116
AQHI GRIMSHAW STATION 160

END OF REPORT 228

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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March 24, 2022

RE: PRAMP – February 2022 Monthly Ambient Air Quality Monitoring Report

Enclosed is the February 2022 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
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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 Grimshaw

Station ID	Station Name	Latitude	Longitude
1562	986c	56.36980	-116.92500
1561	842b	56.27406	-116.98129
1563	Reno	55.86936	-117.05739
1689	AQHI-Grimshaw	56.186570	-117.604994

Listing of Intermittent Monitoring Stations

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

Monitoring Notes during the Month of February 2022

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, except precipitation (72.8%).
- **Precipitation:** The precipitation gauge was found to be non-functional (tipping bucket and drain holes frozen) on February 3. Troubleshooting was performed on the precipitation unit and batteries for the unit were changed. The unit passed the tip-test afterwards. In the absence of a clear point of failure, data were invalidated from the time that the ambient temperature dropped consistently below the sensor's operating range (-20°C), to the time that the sensor was found to be working again (January 31 hour 19 to February 3 hour 13). Five and sixty-two hours of data collected in January and February were discarded, respectively, due to this event.

842b Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.

- All parameters met the 90% operational uptime requirement, except TRS (77.2%). **AEP reference #: 388141**.
- **TRS:** The analyzer failed the as-found points check on February 17. Data review showed that although the daily span results were within the acceptable limits, the analyzer failed to recover from the February 11's power failure event properly; a power outage caused sudden jump in lamp voltage. As such, data collected after the power failure on February 11 hour 3 to February 17 hour 7 were discarded. One hundred forty-nine hours of downtime were recorded.
- **Precipitation:** The precipitation gauge was found to be non-functional (tipping bucket and drain holes frozen) on February 17. Troubleshooting was performed on the precipitation unit and batteries for the unit were changed. The unit passed the tip-test afterwards. In the absence of a clear point of failure, data were invalidated from the time that the ambient temperature dropped consistently below the sensor's operating range (-20°C), to the time that the sensor was found to be working again (February 16 hour 7 to February 17 hour 11). Twenty-nine hours of data were discarded due to this event.

Reno Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters failed to meet the 90% operational uptime requirement (82.4%). **AEP reference #: 387887**.
- **All Parameters:** Due to collection issues on datalogger, one hundred fifteen hours of data were lost this month. The data logger was replaced to correct the issue on February 15.
- **Precipitation**: The precipitation gauge was found to be non-functional (tipping bucket and drain holes frozen) on February 1. Troubleshooting was performed on the precipitation unit and batteries for the unit were changed. The unit passed the tip-test afterwards. In the absence of a clear point of failure, data were invalidated from the time that the ambient temperature dropped consistently below the sensor's operating range (-20°C), to the time that the sensor was found to be working again (January 31 hour 16 to February 1 hour 13). Eight and thirteen hours of data collected in January and February were discarded, respectively, due to this event.

AQHI – Grimshaw Station

- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.
- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAQGs) where applicable.
- TRS: On February 15, the BV-supplied CD Nova CDN101 TRS convertor, s/n: 534, was removed, and the PRAMP-owned CD Nova CDN101, s/n: 530, was installed.

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 point 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-Grimshaw Station.
- Sample analysis and analytical results were prepared and provided by InnoTech Alberta.
- There were no canister events recorded this month.

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

Equipment calibration / maintenance records were provided by Bureau Veritas.

Certification

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



Lily Lin, Technical Program Manager, PRAMP Airshed

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

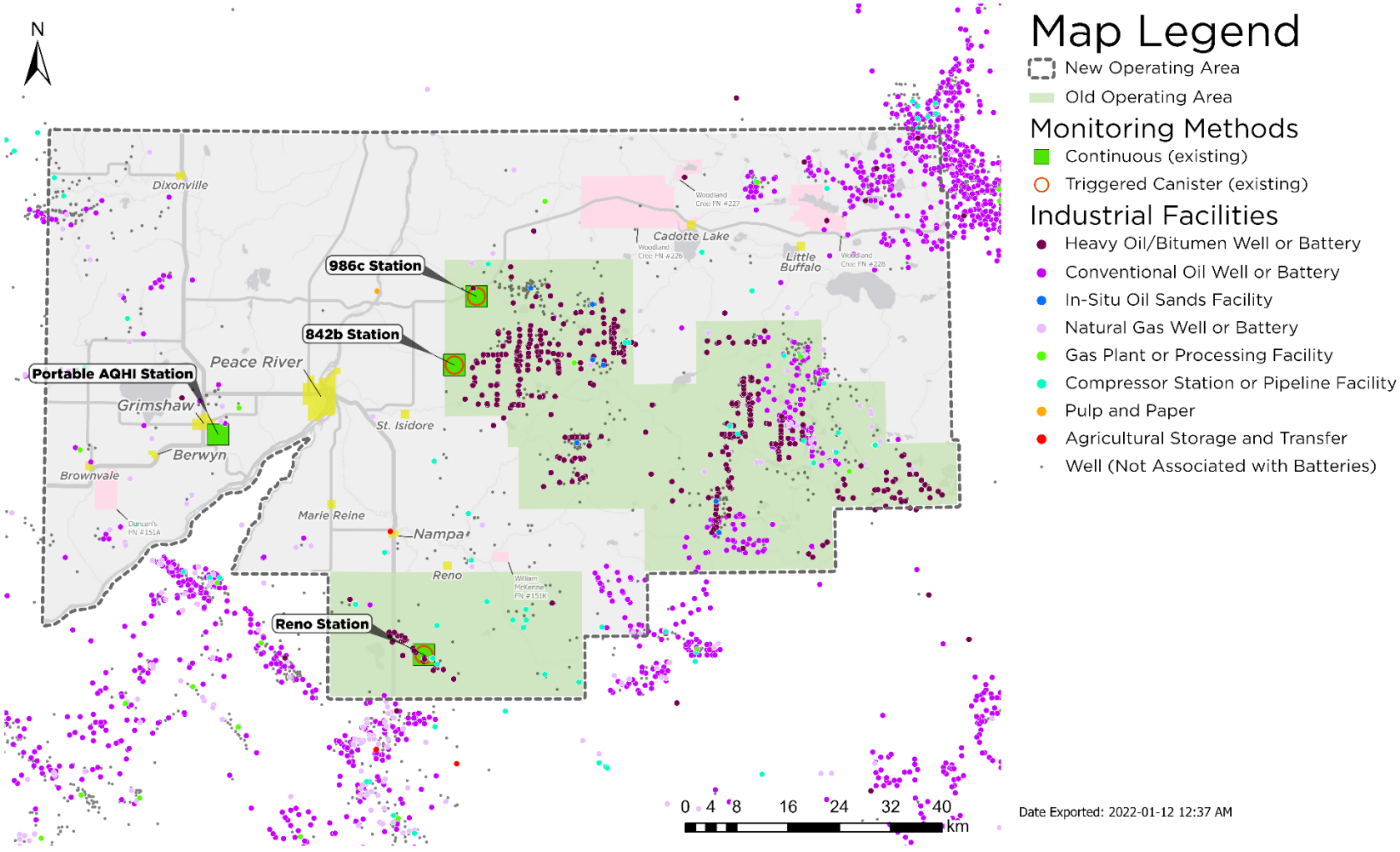
I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements. I also certify that at the time of this report's submission, all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



Michael Bisaga, Technical Program Manager, PRAMP Airshed

March 24, 2022

Map of PRAMP Continuous Monitoring Network



CONTINUOUS NETWORK EQUIPMENT AND MONITORING RESULTS SUMMARY

986c Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO2	**Thermo / 43iQTL**	**1193585646**	
• A successful monthly calibration was performed on February 3. • No operational issues were identified this month.			
TRS	**Thermo / 43iQTL**	**1191833341**	
• A successful monthly calibration was performed on February 3. • Low ambient temperatures had a marked effect on TRS span results. This is a perennial problem when the moisture levels in sample air drop very low, causing TRS analyzer to respond more slowly due to the SO2 scrubber requiring a certain humidity to function optimally. Although daily span check results were often below the requirements, and the daily zero check results were occasionally close to or outside the allowable drift range (while low temperatures were occurring), experience indicates the analyzer's performance remains in compliance with AMD performance criteria, and collected data remain valid.			
THC/CH4/NMHC	**Thermo / 55i**	**1193585652**	
• A successful monthly calibration was performed on February 3. • The span gas cylinder was replaced following a repeat zero-span check on February 16. Another zero-span check was initiated on February 19 hour 7 to obtain the expected span value. Due to an operator error, the expected span value was not updated correctly. This issue did not affect the data quality. Three hours of downtime were recorded due to the additional quality check.			
Relative Humidity (RH)	**Rotronic / HC2-S3**	**61116376**	
• The RH sensor was checked on February 3. The sensor passed the check requirements. • No operational issues were identified this month.			

Parameter	Make / Model	Serial Number	
Barometric Pressure (BP)	**MetOne / 092**	**Y23358**	
• The BP sensor was checked on February 3. The sensor passed the check requirements. • No operational issues were identified this month.			
Ambient Temperature (AT)	**Rotronic / HC2-S3**	**61116376**	
• The AT sensor was checked on February 3. The sensor passed the check requirements. • No operational issues were identified this month.			
Station Temperature (ST)	**Bureau Veritas Canada**	**N/A**	
• The ST sensor was checked on February 3. The sensor passed the check requirements. • No operational issues were identified this month.			
Precipitation (Precip)	**RM Young 52202**	**TB 16325**	
• The precipitation gauge was found to be non-functional (tipping bucket and drain holes frozen) on February 3. Troubleshooting was performed on the precipitation unit and batteries for the unit were changed. The unit passed the tip-test afterwards. In the absence of a clear point of failure, data were invalidated from the time that the ambient temperature dropped consistently below the sensor's operating range (-20°C), to the time that the sensor was found to be working again (January 31 hour 19 to February 3 hour 13). Five and sixty-two hours of data collected in January and February were discarded, respectively, due to this event.			
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 3, 2021. • The anemometer sensor was checked on February 3. The sensor passed the check requirements. • No operational issues were identified this month.			

Monitored Data Summary for 986c Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.1	0	1	February 2 at hour 11	21.7	WSW	0.9	February 27	100.0	95.1
TRS (ppb)	-	-	-	-	-	-	0.09	0.00	0.48	February 8 at hour 14	15	WNW	0.25	February 8	100.0	94.9
THC (ppm)	-	-	-	-	-	-	2.18	2.03	2.88	February 21 at hour 3	4.1	W	2.40	February 21	99.6	94.6
CH4 (ppm)	-	-	-	-	-	-	2.18	2.03	2.88	February 21 at hour 3	4.1	W	2.40	February 21	99.6	94.6
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	February 1 at hour 0	1.1	NW	0.00	February 1	99.6	94.6
RH (%)	-	-	-	-	-	-	69.8	42	93	February 10 at hour 10	23.3	NW	79.0	February 27	100.0	100.0
BP (millibar)	-	-	-	-	-	-	944	923	965	February 22 at hour 1	3	SW	962	February 21	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-10.9	-33.8	8.4	February 9 at hour 22	26.9	WSW	5.2	February 7	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	23.2	21.2	24.5	February 3 at hour 12	6	N	23.8	February 20	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	4.5	0.0	1.4	February 10 at hour 10	23.3	NW	3.0	February 10	90.8	90.8
WSV (km/hr)	-	-	-	-	-	-	4.3	0.1	35.9	February 6 at hour 13	35.9	W	22.8	February 6	100.0	100.0
WDV (sector)	-	-	-	-	-	-	250 (WSW)	-	-	-	-	-	-	-	100.0	100.0

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

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

Alberta Ambient Air Quality Objectives (AAAQOs) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) 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 power outage occurred between February 10 hour 23 and February 11 hour 2. Four hours of downtime were recorded. • A successful monthly calibration was performed on February 17. • No operational issues were identified this month.			
TRS	**Thermo 43iQTL**	**1200736630**	
• A power outage occurred between February 10 hour 23 and February 11 hour 2. Four hours of downtime were recorded. • A successful monthly calibration was performed on February 17. • The analyzer failed the as-found points check on February 17. Data review showed that although the daily span results were within the acceptable limits, the analyzer failed to recover from the February 11's power failure event properly; a power outage caused sudden jump in lamp voltage. As such, data collected after the power failure on February 11 hour 3 to February 17 hour 7 were discarded. One hundred forty-nine hours of downtime were recorded. • Low ambient temperatures had a marked effect on TRS span results. This is a perennial problem when the moisture levels in sample air drop very low, causing TRS analyzer to respond more slowly due to the SO2 scrubber requiring a certain humidity to function optimally. Although daily span check results were often below the requirements, and the daily zero check results were occasionally close to or outside the allowable drift range (while low temperatures were occurring), experience indicates the analyzer's performance remains in compliance with AMD performance criteria, and collected data remain valid.			
THC/CH4/NMHC	**Thermo / 55i**	**1501663728**	
• A power outage occurred between February 10 hour 23 and February 11 hour 2. Hourly data collected on February 11 hour 3 was discarded as the analyzer was recovering from the power outage. Five hours of downtime were recorded. • A successful monthly calibration was performed on February 17. • No operational issues were identified this month.			

Parameter	Make / Model	Serial Number	
Relative Humidity (RH)	**Rotronic / HC2A-S3**	**20370767**	

- A power outage occurred between February 10 hour 23 and February 11 hour 2. Four hours of downtime were recorded.
- The RH sensor was checked on February 17. The sensor passed the check requirements.
- No operational issues were identified this month.

Parameter	Make / Model	Serial Number	
Barometric Pressure (BP)	**MetOne / 092**	**Y23362**	

- A power outage occurred between February 10 hour 23 and February 11 hour 2. Four hours of downtime were recorded.
- The BP sensor was checked on February 17. The sensor passed the check requirements.
- No operational issues were identified this month.

Ambient Temperature (AT)	**Rotronic / HC2A-S3**	**20370767**	

- A power outage occurred between February 10 hour 23 and February 11 hour 2. Four hours of downtime were recorded.
- The temperature sensor was checked on February 17. The sensor passed the check requirements.
- No operational issues were identified this month.

Station Temperature (ST)	**Bureau Veritas Canada**	**N/A**	

- A power outage occurred between February 10 hour 23 and February 11 hour 2. Four hours of downtime were recorded.
- No operational issues were identified this month.

Precipitation (Precip)	**RM Young / 52202**	**TB 15878**	

- A power outage occurred between February 10 hour 23 and February 11 hour 2. Four hours of downtime were recorded.
- The precipitation gauge was found to be non-functional (tipping bucket and drain holes frozen) on February 17. Troubleshooting was performed on the precipitation unit and batteries for the unit were changed. The unit passed the tip-test afterwards. In the absence of a clear point of failure, data were invalidated from the time that the ambient temperature dropped consistently below the sensor's operating range (-20°C), to the time that the sensor was found to be working again (February 16 hour 7 to February 17 hour 11). Twenty-nine hours of data were discarded due to this event.

Parameter	Make / Model	Serial Number	
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 July 4, 2021.
- A power outage occurred between February 10 hour 23 and February 11 hour 2. Four hours of downtime were recorded.
- The anemometer sensors were checked on February 17. The sensor passed the check requirements.
- No operational issues were identified this month.

Monitored Data Summary for 842b Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.1	0	1	February 4 at hour 7	6.5	E	0.7	February 27	99.4	94.5
TRS (ppb)	-	-	-	-	-	-	0.28	0.04	0.83	February 17 at hour 12	10.4	NNW	0.44	February 10	77.2	73.3
THC (ppm)	-	-	-	-	-	-	1.96	1.84	3.77	February 12 at hour 7	2.8	ENE	2.25	February 12	99.3	94.5
CH4 (ppm)	-	-	-	-	-	-	1.96	1.84	3.61	February 12 at hour 7	2.8	ENE	2.23	February 12	99.3	94.5
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.17	February 12 at hour 7	2.8	ENE	0.02	February 12	99.3	94.5
RH (%)	-	-	-	-	-	-	75.0	42	100	February 10 at hour 11	15.4	NW	86.2	February 27	99.4	99.4
BP (millibar)	-	-	-	-	-	-	943	921	964	February 22 at hour 2	3.1	ESE	961	February 21	99.4	99.4
Ext. Temp. (°C)	-	-	-	-	-	-	-11.0	-34.8	7.8	February 9 at hour 23	30.2	W	4.9	February 7	99.4	99.4
Stn. Temp. (°C)	-	-	-	-	-	-	22.4	21.0	23.5	February 21 at hour 9	2.1	SSE	23.0	February 21	99.4	99.4
Precipitation (mm)*	-	-	-	-	-	-	5.3	0.0	1.6	February 10 at hour 11	15.4	NW	3.7	February 10	94.9	94.9
WSV (km/hr)	-	-	-	-	-	-	2.4	0.2	35.5	February 6 at hour 5	35.5	WSW	20.4	February 6	99.4	99.4
WDV (sector)	-	-	-	-	-	-	235 (SW)	-	-	-	-	-	-	-	99.4	99.4

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) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) 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	**Thermo 43iQTL**	**12101910505**	
• A successful monthly calibration was performed on February 1. • No operational issues were identified this month. • Due to collection issues on datalogger, hourly data collected from February 5 hour 8 to February 7 hour 11, from February 7 hour 19 to February 8 hour 16, from February 13 hour 12 to February 14 hour 18 and from February 15 hour 1 to hour 10 were lost. Datalogger was reset to restore the function. A zero-span check was initiated to confirm the analyzer's functionality each time the logger reset. One hundred fifteen hours of downtime were recorded. The data logger was replaced to correct the issue on February 15.			
TRS	**Thermo 43iQTL**	**12101910504**	
• A successful monthly calibration was performed on February 1. • Low ambient temperatures had a marked effect on TRS span results. This is a perennial problem when the moisture levels in sample air drop very low, causing TRS analyzer to respond more slowly due to the SO2 scrubber requiring a certain humidity to function optimally. Although daily span check results were often below the requirements, and the daily zero check results were occasionally close to or outside the allowable drift range (while low temperatures were occurring), experience indicates the analyzer's performance remains in compliance with AMD performance criteria, and collected data remain valid. • Due to collection issues on datalogger, hourly data collected from February 5 hour 8 to February 7 hour 11, from February 7 hour 19 to February 8 hour 16, from February 13 hour 12 to February 14 hour 18 and from February 15 hour 1 to hour 10 were lost. Datalogger was reset to restore the function. A zero-span check was initiated to confirm the analyzer's functionality each time the logger reset. One hundred fifteen hours of downtime were recorded. The data logger was replaced to correct the issue on February 15.			
THC/CH4/NMHC	**Thermo / 55i**	**12101910497**	
• A successful monthly calibration was performed on February 1. • No operational issues were identified this month. • Due to collection issues on datalogger, hourly data collected from February 5 hour 8 to February 7 hour 11, from February 7 hour 19 to February 8 hour 16, from February 13 hour 12 to February 14 hour 18 and from February 15 hour 1 to hour 10 were lost. Datalogger was reset to restore the function. A zero-span check was initiated to confirm the analyzer's functionality each time the logger reset. One hundred fifteen hours of downtime were recorded. The data logger was replaced to correct the issue on February 15.			

Parameter	Make / Model	Serial Number	
Relative Humidity (RH)	**RM Young / 43172VC**	**60837897**	

- The RH sensor was checked on February 1. The sensor passed the check requirements.
- No operational issues were identified this month.
- Due to collection issues on datalogger, hourly data collected from February 5 hour 8 to February 7 hour 11, from February 7 hour 19 to February 8 hour 16, from February 13 hour 12 to February 14 hour 18 and from February 15 hour 1 to hour 10 were lost. Datalogger was reset to restore the function. One hundred fifteen hours of downtime were recorded. The data logger was replaced to correct the issue on February 15.

Barometric Pressure (BP)	**MetOne / 092**	**K12864**	

- The RH sensor was checked on February 1. The sensor passed the check requirements.
- No operational issues were identified this month.
- Due to collection issues on datalogger, hourly data collected from February 5 hour 8 to February 7 hour 11, from February 7 hour 19 to February 8 hour 16, from February 13 hour 12 to February 14 hour 18 and from February 15 hour 1 to hour 10 were lost. Datalogger was reset to restore the function. One hundred fifteen hours of downtime were recorded. The data logger was replaced to correct the issue on February 15.

Ambient Temperature (AT)	**RM Young / 43172VC**	**60837897**	

- The RH sensor was checked on February 1. The sensor passed the check requirements.
- No operational issues were identified this month.
- Due to collection issues on datalogger, hourly data collected from February 5 hour 8 to February 7 hour 11, from February 7 hour 19 to February 8 hour 16, from February 13 hour 12 to February 14 hour 18 and from February 15 hour 1 to hour 10 were lost. Datalogger was reset to restore the function. One hundred fifteen hours of downtime were recorded. The data logger was replaced to correct the issue on February 15.

Station Temperature (ST)	**Bureau Veritas Canada**	**N/A**	

- The RH sensor was checked on February 1. The sensor passed the check requirements.
- No operational issues were identified this month.
- Due to collection issues on datalogger, hourly data collected from February 5 hour 8 to February 7 hour 11, from February 7 hour 19 to February 8 hour 16, from February 13 hour 12 to February 14 hour 18 and from February 15 hour 1 to hour 10 were lost. Datalogger was reset to restore the function. One hundred fifteen hours of downtime were recorded. The data logger was replaced to correct the issue on February 15.

Parameter	Make / Model	Serial Number
Precipitation (Precip)	**RM Young / 5202**	**TB15877**

- The precipitation gauge was found to be non-functional (tipping bucket and drain holes frozen) on February 1. Troubleshooting was performed on the precipitation unit and batteries for the unit were changed. The unit passed the tip-test afterwards. In the absence of a clear point of failure, data were invalidated from the time that the ambient temperature dropped consistently below the sensor's operating range (-20°C), to the time that the sensor was found to be working again (January 31 hour 16 to February 1 hour 13). Eight and thirteen hours of data collected in January and February were discarded, respectively, due to this event.
- Due to collection issues on datalogger, hourly data collected from February 5 hour 8 to February 7 hour 11, from February 7 hour 19 to February 8 hour 16, from February 13 hour 12 to February 14 hour 18 and from February 15 hour 1 to hour 10 were lost. Datalogger was reset to restore the function. One hundred fifteen hours of downtime were recorded. The data logger was replaced to correct the issue on February 15.

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 July 5, 2021.
- The anemometer sensors were checked on February 1. The sensor passed the check requirements.
- No operational issues were identified this month.
- Due to collection issues on datalogger, hourly data collected from February 5 hour 8 to February 7 hour 11, from February 7 hour 19 to February 8 hour 16, from February 13 hour 12 to February 14 hour 18 and from February 15 hour 1 to hour 10 were lost. Datalogger was reset to restore the function. One hundred fifteen hours of downtime were recorded. The data logger was replaced to correct the issue on February 15.

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	0.1	0	1	February 4 at hour 9	5.8	E	0.7	February 27	82.9	78.4
TRS (ppb)	-	-	-	-	-	-	0.19	0.04	0.48	February 7 at hour 17	11.7	W	0.24	February 22	82.9	78.3
THC (ppm)	-	-	-	-	-	-	2.04	1.90	3.04	February 12 at hour 3	0.2	SW	2.27	February 12	82.9	78.3
CH4 (ppm)	-	-	-	-	-	-	2.04	1.90	3.04	February 12 at hour 3	0.2	SW	2.27	February 12	82.9	78.3
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	February 1 at hour 0	2.8	NW	0.00	February 1	82.9	78.3
RH (%)	-	-	-	-	-	-	66.1	44	100	February 10 at hour 14	8.2	NW	75.5	February 17	82.9	82.9
BP (millibar)	-	-	-	-	-	-	943	920	963	February 22 at hour 6	5.2	SW	960	February 21	82.9	82.9
Ext. Temp. (°C)	-	-	-	-	-	-	-12.2	-30.8	7.3	February 9 at hour 19	10.4	SW	3.7	February 9	82.9	82.9
Stn. Temp. (°C)	-	-	-	-	-	-	23.5	21.7	24.8	February 10 at hour 20	3.8	WNW	24.4	February 10	82.9	82.9
Precipitation (mm)*	-	-	-	-	-	-	8.1	0.0	1.5	February 4 at hour 12	3.8	ESE	3.1	February 10	81.0	80.8
WSV (km/hr)	-	-	-	-	-	-	1.3	0.0	20.5	February 10 at hour 1	20.5	WSW	9.0	February 19	82.9	82.9
WDV (sector)	-	-	-	-	-	-	293 (WNW)	-	-	-	-	-	-	-	82.9	82.9

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) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) Exceedances at Reno Station

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

AQHI – Grimshaw Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO2	**Teledyne / T100**	**722**	
• The analyzer did not recover from a small power outage on February 8 at 11:54. No data were collected between February 8 hour 12 and February 9 hour 8 as a result. The analyzer was reset following a repeat zero-span check on February 9 hour 9. The check results from this repeat check and the later scheduled zero-span check failed the span check requirement, which was likely because the permeation tube had not yet achieved its working temperature. Because the analyzer passed the zero-span check on February 10 and February 15's monthly calibration check, data collected between February 9 and 15 were considered valid. Twenty-two hours of downtime were recorded due to this event. • A successful monthly calibration was performed on February 15. • The channel was put into the maintenance mode on February 16 hour 13 while the manifold was being cleaned. One hour of downtime was recorded as a result.			
TRS	**Teledyne / T100U**	**132**	
• A repeat zero-span check was initiated on February 9 hour to assess the analyzer's functionality. The analyzer passed the check requirements. One hour of downtime was recorded due to the additional quality check. • Following a shut-down calibration on February 15, the BV-supplied CD Nova CDN101 TRS convertor, s/n: 534, was removed, and the PRAMP-owned CD Nova CDN101, s/n: 530, was installed. The equipment was left offline to stabilize overnight. A post-repair calibration was completed on February 16. Seventeen hours of downtime were recorded due to this maintenance. • Low ambient temperatures had a marked effect on TRS span results. This is a perennial problem when the moisture levels in sample air drop very low, causing TRS analyzer to respond more slowly due to the SO2 scrubber requiring a certain humidity to function optimally. Although daily span check results were often below the requirements, and the daily zero check results were occasionally close to or outside the allowable drift range (while low temperatures were occurring), experience indicates the analyzer's performance remains in compliance with AMD performance criteria, and collected data remain valid.			

Parameter	Make / Model	Serial Number	
NOx/NO/NO2	**Teledyne / T200**	**837**	
• The analyzer did not recover from a small power outage on February 8 at 11:54. No data were collected between February 8 hour 12 and February 9 hour 8. The analyzer was reset following a repeat zero-span check on February 9 hour 9. The check results passed the span check requirement. Twenty-two hours of downtime were recorded due to this event. • Following a shut-down calibration on February 15, the sample pump was replaced and a routine maintenance was completed on the analyzer. The analyzer was left offline to stabilize overnight. A post-repair calibration was completed on February 16. Fifteen hours of downtime were recorded due to this maintenance. • A repeat zero-span check was completed on February 22 hour 7 to assess the analyzer drift. The check result met the check requirements. No further action was required. One hour of downtime was recorded due to the additional quality check.			
O3	**API / 400A**	**445**	
• A successful monthly calibration was performed on February 16. • No operational issues were identified this month.			
THC/CH4/NMHC	**Thermo / 55i**	**1191032505**	
• A successful monthly calibration was performed on February 15. • No operational issues were identified this month. • The channel was put into the maintenance mode on February 16 hour 13 while the manifold was being cleaned. One hour of downtime was recorded as a result.			
PM 2.5	**Teledyne / T640**	**318**	
• A firmware upgrade was completed on February 15 hour 14. One hour of downtime was recorded due to this maintenance. • A successful monthly calibration was performed on February 16. • No operational issues were identified this month.			

Parameter	Make / Model	Serial Number	
Relative Humidity (RH)	**Vaisala / HMP155**	**N2910506**	
• The sensor was checked on February 15. The sensor passed the check requirements. • No operational issues were identified this month.			
Barometric Pressure (BP)	**MetOne / 092**	**A2397**	
• The sensor was checked on February 15. The sensor passed the check requirements. • No operational issues were identified this month.			
Ambient Temperature (AT)	**Vaisala / HMP155**	**N2910506**	
• The sensor was checked on February 15. 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 July 22, 2021. • The anemometer sensors were checked on February 15. The sensor passed the check requirements. • No operational issues were identified this month.			

Monitored Data Summary for AQHI - Grimshaw Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	1	February 27 at hour 1	10.2	NNE	0.5	February 27	96.6	91.8
TRS (ppb)	-	-	-	-	-	-	0.44	0.11	1.28	February 9 at hour 2	9.5	W	0.95	February 8	97.2	91.9
NOx (ppb)	-	-	-	-	-	-	5.4	0	36	February 20 at hour 19	3.5	NNW	10.3	February 12	94.3	88.8
NO (ppb)	-	-	-	-	-	-	1.1	0	14	February 24 at hour 9	2.7	NW	2.8	February 24	94.3	88.8
NO2 (ppb)	159	-	-	0	-	-	4.3	0	28	February 12 at hour 6	1.7	NNE	9.3	February 12	94.3	88.8
O3 (ppb)	76	-	-	0	-	-	32.3	5	47	February 24 at hour 2	14.2	NNW	44.0	February 6	100.0	95.1
THC (ppm)	-	-	-	-	-	-	2.00	1.85	2.34	February 22 at hour 21	3.1	SSE	2.11	February 22	99.9	94.9
CH4 (ppm)	-	-	-	-	-	-	2.00	1.85	2.23	February 23 at hour 1	10.5	SSE	2.10	February 22	99.9	94.9
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.21	February 22 at hour 21	3.1	SSE	0.02	February 22	99.9	94.9
PM2.5 (µg/m3)	80	30	-	0	0	-	3.8	0.0	52.0	February 13 at hour 16	3	NE	6.5	February 3	99.9	99.4
RH (%)	-	-	-	-	-	-	71.7	47	94	February 10 at hour 13	12.8	NNW	79.3	February 4	100.0	100.0
BP (millibar)	-	-	-	-	-	-	945	923	967	February 22 at hour 3	7.1	NW	964	February 21	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	-10.3	-28.6	8.5	February 9 at hour 21	33.2	WSW	4.1	February 6	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.3	21.0	23.6	February 15 at hour 15	7.9	ENE	23.1	February 7	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	10.4	0.4	38.3	February 6 at hour 3	38.3	WSW	27.9	February 6	100.0	100.0
WDV (sector)	-	-	-	-	-	-	324 (NW)	-	-	-	-	-	-	-	100.0	100.0

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

Alberta Ambient Air Quality Objectives (AAAQOs) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) Exceedances at AQHI - Grimshaw Station

The measured ambient air quality was within the AAAQOs and AAAQGs 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 - February 2022

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

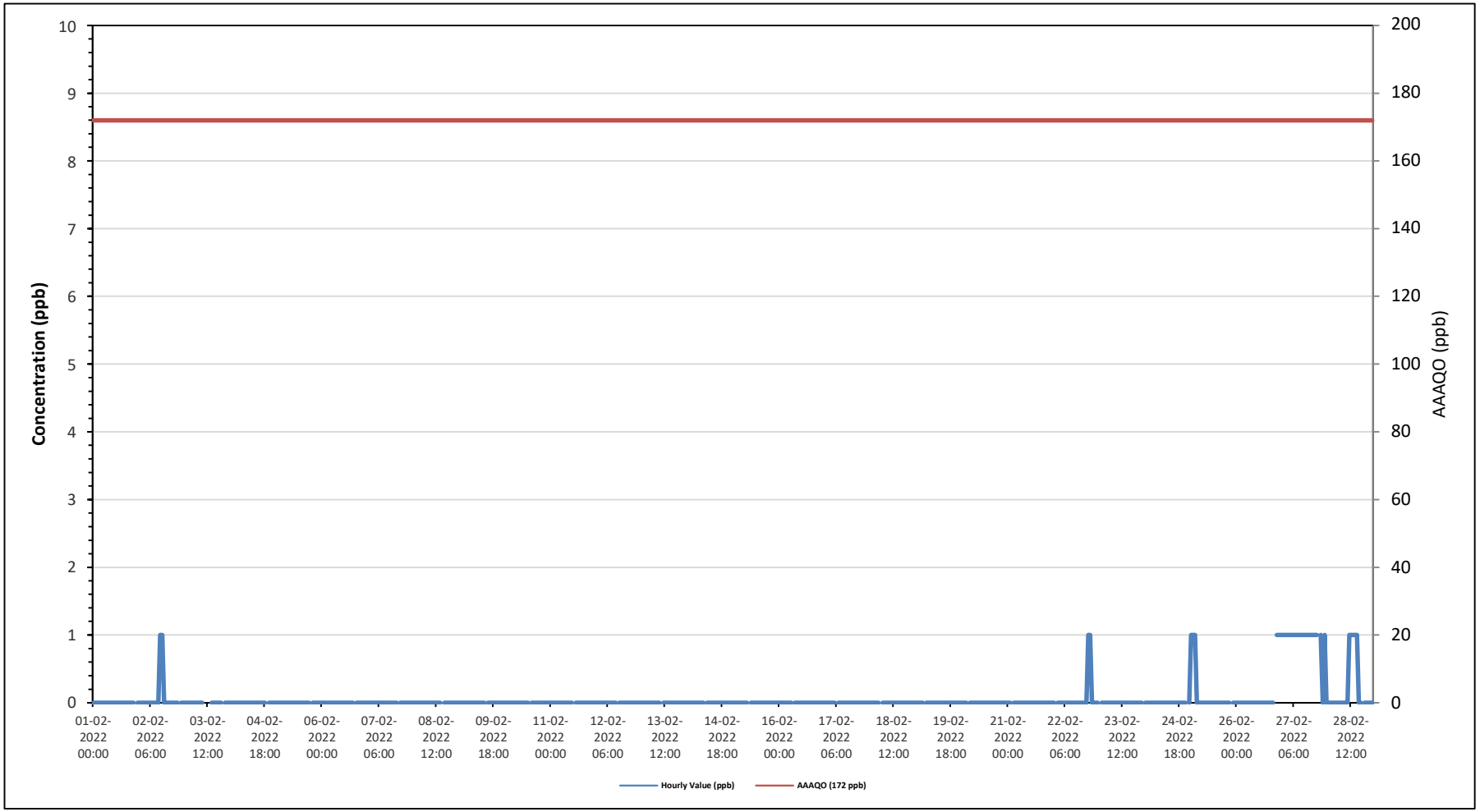
Maximum Hourly Value:	1	ppb	on February 2 at hour 11	Hours in Service:	672
Maximum Daily Value:	0.9	ppb	on February 27	Hours of Data:	639
Minimum Hourly Value:	0	ppb	on February 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on February 1	Hours of Calibration:	33
Monthly Average:	0.1	ppb		Operational Uptime:	100.0

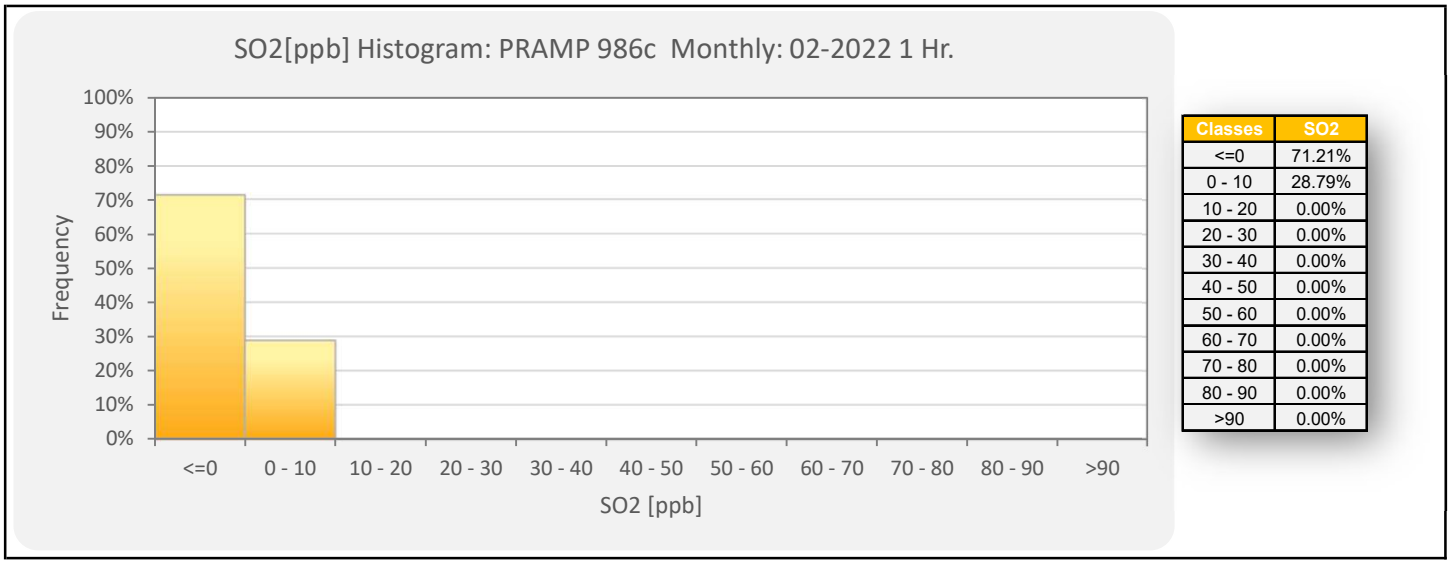
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0.0
Feb 2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	S	0	0	0	1	0.1
Feb 3	0	0	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	S	0	0	0	0	0	0.0
Feb 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Feb 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0.0
Feb 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0.0
Feb 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0.0
Feb 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
Feb 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 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
Feb 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
Feb 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
Feb 13	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 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
Feb 15	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 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
Feb 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
Feb 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
Feb 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
Feb 20	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 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
Feb 22	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0.1
Feb 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
Feb 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
Feb 25	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	1	0.1
Feb 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	1	1	0	1	0.1
Feb 27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	S	1	0	1	0	0	1	0.9
Feb 28	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	S	0	0	0	0	0	0	1	0.2
Diurnal Maximum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Diurnal Average	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	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 SO2 - 986c Station

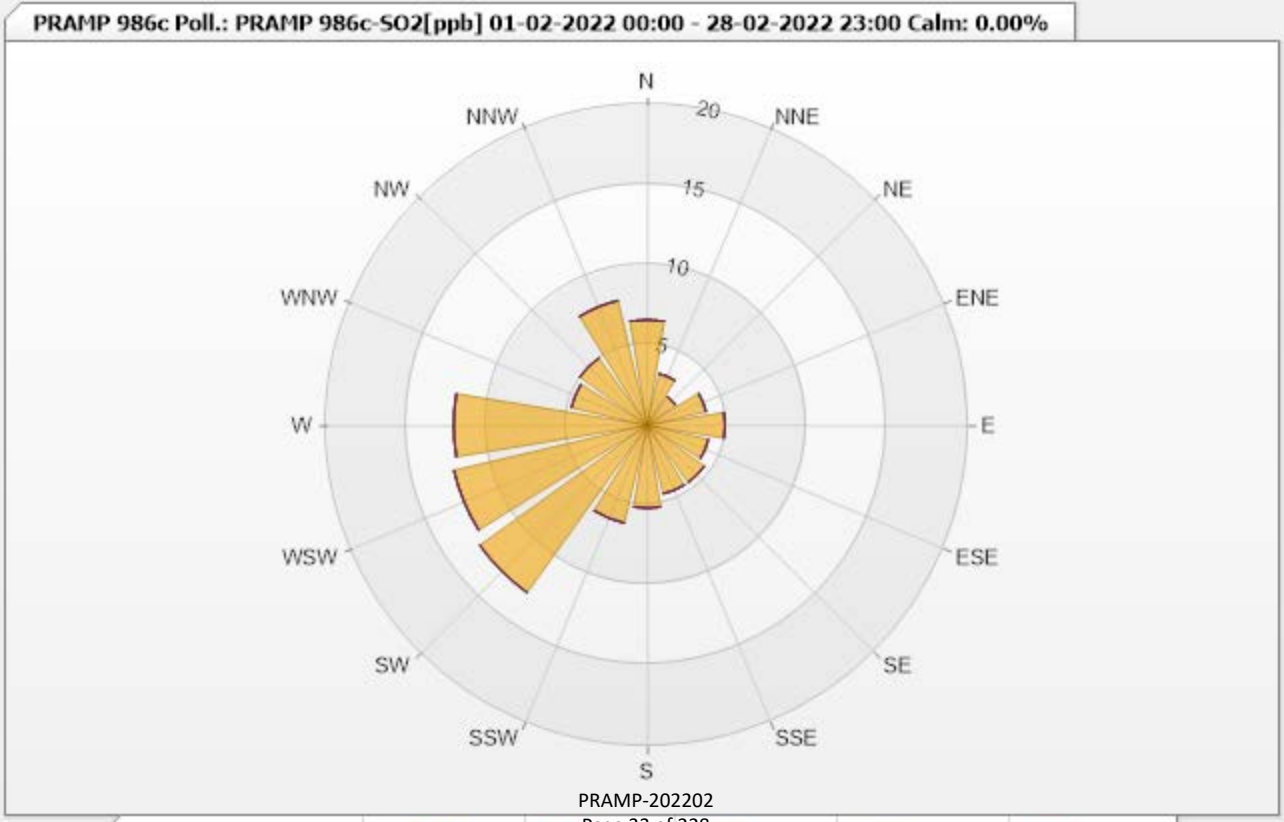




Classes	SO2
<=0	71.21%
0 - 10	28.79%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-SO2[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.09% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	6.57	0	0	0	0	6.57
NNE	3.29	0	0	0	0	3.29
NE	2.19	0	0	0	0	2.19
ENE	3.76	0	0	0	0	3.76
E	4.85	0	0	0	0	4.85
ESE	3.91	0	0	0	0	3.91
SE	4.38	0	0	0	0	4.38
SSE	4.38	0	0	0	0	4.38
S	5.16	0	0	0	0	5.16
SSW	6.26	0	0	0	0	6.26
SW	12.83	0	0	0	0	12.83
WSW	12.36	0	0	0	0	12.36
W	12.05	0	0	0	0	12.05
WNW	4.85	0	0	0	0	4.85
NW	5.16	0	0	0	0	5.16
NNW	7.98	0	0	0	0	7.98
Summary	100	0	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-SO2[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% 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 - February 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

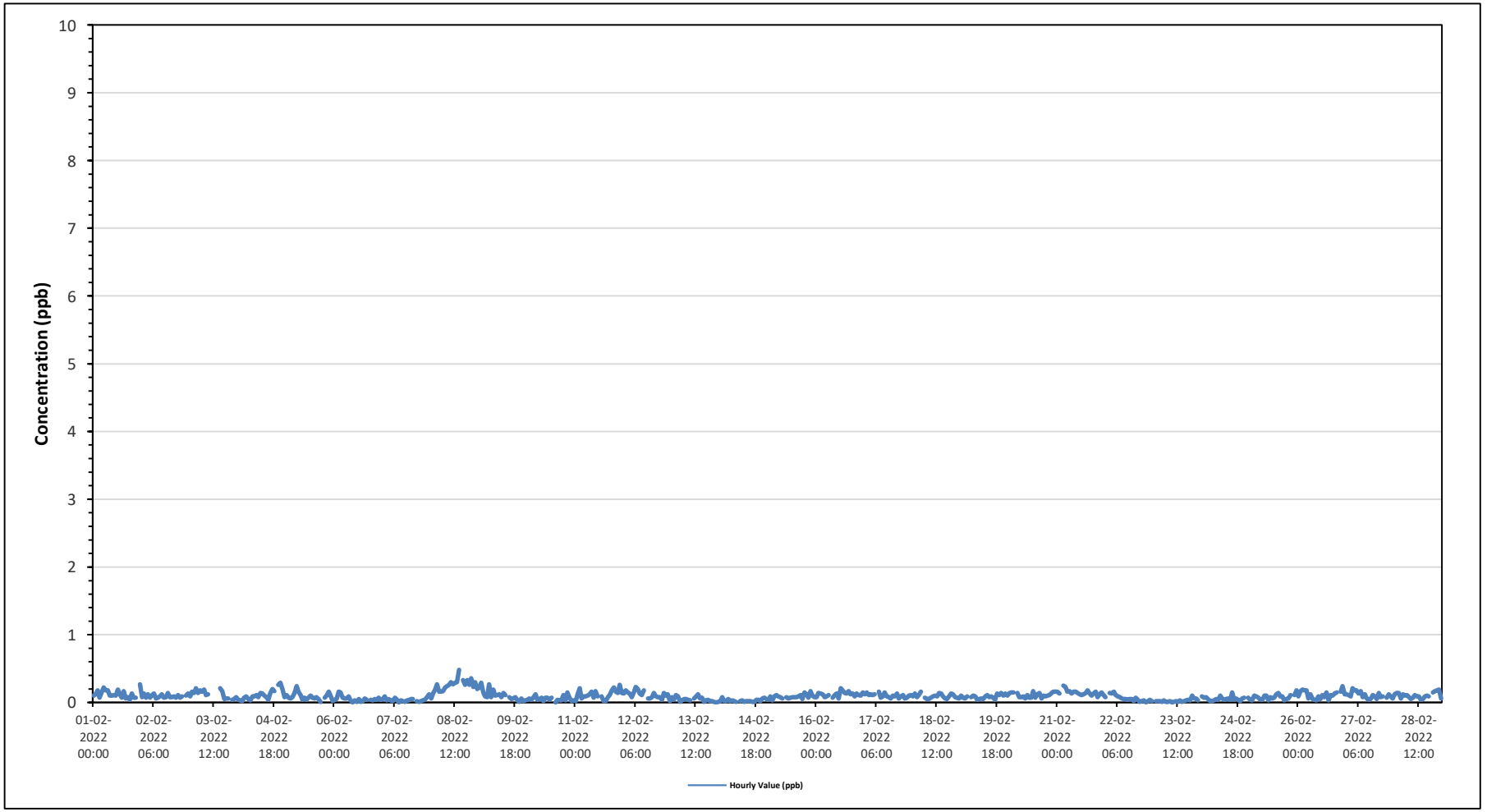
Maximum Hourly Value:	0.48	ppb	on February 8 at hour 14	Hours in Service:	672
Maximum Daily Value:	0.25	ppb	on February 8	Hours of Data:	638
Minimum Hourly Value:	0.00	ppb	on February 6 at hour 9	Hours of Missing Data:	0
Minimum Daily Value:	0.03	ppb	on February 23	Hours of Calibration:	34
Monthly Average:	0.09	ppb		Operational Uptime:	100.0

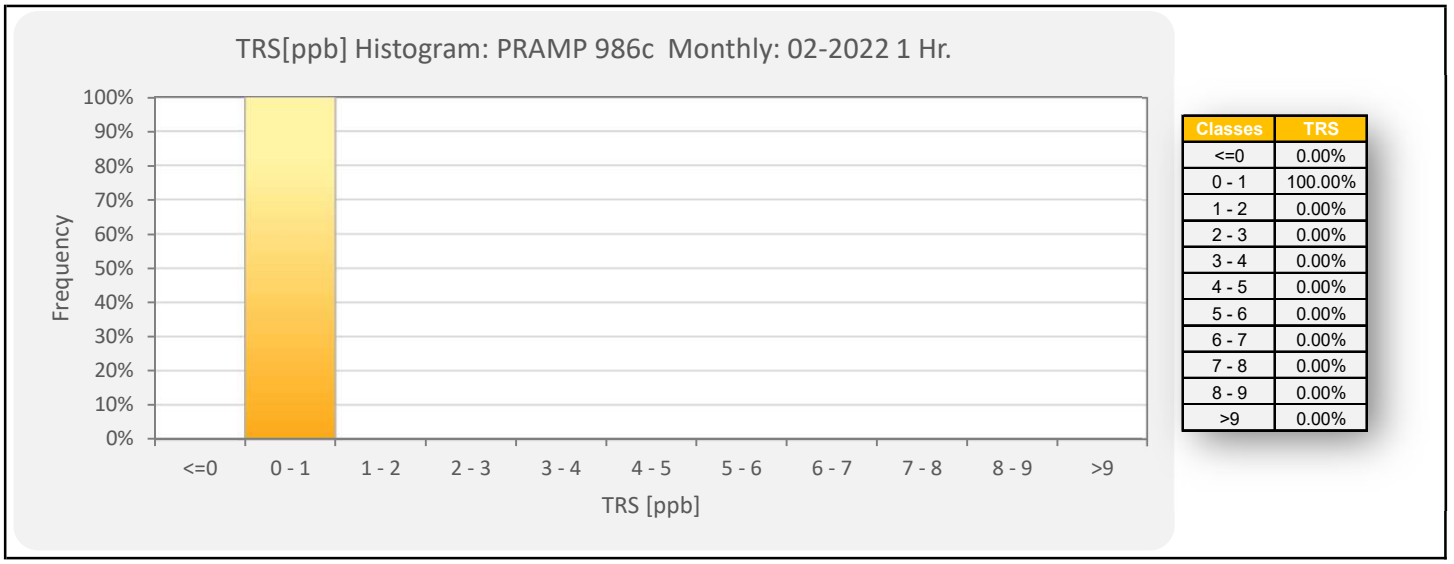
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0.1	0.12	0.18	0.07	0.15	0.22	0.18	0.18	0.1	0.1	0.11	0.1	0.19	0.12	0.07	0.17	0.06	0.08	0.04	0.13	0.07	0.07	S	0.27	0.04	0.27	0.13
Feb 2	0.08	0.13	0.07	0.12	0.07	0.11	0.13	0.06	0.07	0.09	0.12	0.07	0.08	0.14	0.08	0.08	0.09	0.07	0.11	0.07	0.09	S	0.1	0.13	0.06	0.14	0.09
Feb 3	0.09	0.16	0.14	0.21	0.14	0.18	0.16	0.19	0.11	0.12	C	C	C	C	C	0.21	0.17	0.05	0.06	0.06	S	0.04	0.05	0.08	0.04	0.21	0.12
Feb 4	0.04	0.03	0.02	0.07	0.09	0.05	0.03	0.09	0.09	0.11	0.08	0.14	0.13	0.1	0.08	0.04	0.14	0.2	0.17	S	0.26	0.29	0.2	0.08	0.02	0.29	0.11
Feb 5	0.11	0.07	0.06	0.08	0.14	0.24	0.16	0.11	0.04	0.07	0.04	0.07	0.1	0.07	0.06	0.08	0.05	0.01	S	0.07	0.1	0.16	0.1	0.02	0.01	0.24	0.09
Feb 6	0.04	0.05	0.16	0.15	0.07	0.06	0.06	0.09	0.03	0	0.03	0.01	0.05	0.01	0.02	0.06	0.04	S	0.04	0.03	0.05	0.04	0.07	0.04	**0.00**	0.16	0.05
Feb 7	0.05	0.09	0.03	0.05	0.03	0.02	0.07	0.04	0	0.03	0.02	0.01	0.03	0.03	0.05	0.05	S	0.02	0.01	0.02	0.03	0.04	0.08	0.12	**0.00**	0.12	0.04
Feb 8	0.06	0.13	0.19	0.27	0.16	0.16	0.17	0.22	0.24	0.26	0.3	0.27	0.29	0.3	**0.48**	S	0.33	0.26	0.33	0.26	0.36	0.23	0.3	0.2	0.06	**0.48**	**0.25**
Feb 9	0.22	0.29	0.15	0.09	0.08	0.27	0.08	0.19	0.1	0.11	0.12	0.08	0.14	0.11	S	0.08	0.05	0.06	0.08	0.03	0.01	0.06	0.02	0.03	0.01	0.29	0.11
Feb 10	0.04	0.06	0.04	0.07	0.12	0.04	0.05	0.07	0.02	0.07	0.07	0.04	0.07	S	0	0.04	0.03	0.03	0.11	0.03	0.15	0.07	0.02	0.03	**0.00**	0.15	0.06
Feb 11	0.02	0.12	0.21	0.06	0.09	0.09	0.1	0.12	0.16	0.07	0.17	0.09	S	0.09	0.02	0.02	0.08	0.11	0.18	0.22	0.16	0.14	0.26	0.14	0.02	0.26	0.12
Feb 12	0.13	0.18	0.15	0.13	0.08	0.14	0.23	0.2	0.13	0.11	0.18	S	0.06	0.06	0.08	0.14	0.09	0.08	0.08	0.04	0.14	0.1	0.12	0.02	0.02	0.23	0.12
Feb 13	0.08	0.04	0.11	0.09	0.01	0.03	0.05	0.05	0.04	0.03	S	0.06	0.09	0.12	0.06	0.07	0.01	0.03	0.04	0.02	0.02	0.01	0	0.01	**0.00**	0.12	0.05
Feb 14	0.02	0.08	0.02	0.02	0.05	0.02	0.03	0.02	0.01	S	0.02	0.03	0.01	0.02	0.02	0.02	0.01	0.01	0.04	0.04	0.02	0.06	0.07	0.05	0.01	0.08	0.03
Feb 15	0.04	0.09	0.03	0.09	0.11	0.09	0.08	0.06	S	0.08	0.06	0.07	0.08	0.08	0.08	0.09	0.11	0.05	0.15	0.12	0.07	0.17	0.1	0.08	0.03	0.17	0.09
Feb 16	0.08	0.14	0.13	0.12	0.08	0.09	0.11	S	0.07	0.11	0.13	0.06	0.21	0.18	0.14	0.13	0.17	0.12	0.13	0.09	0.13	0.11	0.1	0.15	0.06	0.21	0.12
Feb 17	0.12	0.15	0.11	0.12	0.11	0.12	S	0.16	0.07	0.09	0.15	0.09	0.08	0.06	0.1	0.09	0.13	0.06	0.09	0.11	0.06	0.07	0.1	0.11	0.06	0.16	0.10
Feb 18	0.09	0.13	0.08	0.11	0.16	S	0.07	0.05	0.05	0.07	0.09	0.1	0.09	0.14	0.13	0.09	0.06	0.05	0.09	0.13	0.12	0.08	0.07	0.06	0.05	0.16	0.09
Feb 19	0.1	0.07	0.06	0.09	S	0.08	0.1	0.09	0.04	0.05	0.06	0.05	0.09	0.11	0.08	0.09	0.07	0.04	0.13	0.11	0.14	0.1	0.13	0.1	0.04	0.14	0.09
Feb 20	0.14	0.15	0.15	S	0.14	0.08	0.08	0.09	0.06	0.11	0.07	0.07	0.17	0.07	0.12	0.14	0.06	0.1	0.09	0.1	0.11	0.14	0.16	0.16	0.06	0.17	0.11
Feb 21	0.16	0.13	S	0.25	0.23	0.16	0.17	0.13	0.16	0.16	0.14	0.12	0.11	0.12	0.14	0.18	0.13	0.1	0.13	0.16	0.08	0.12	0.15	0.11	0.08	0.25	0.15
Feb 22	0.08	S	0.14	0.13	0.16	0.11	0.09	0.08	0.06	0.05	0.05	0.04	0.05	0.05	0.02	0.07	0.04	0.01	0.02	0.03	0	0.02	0.04	0.02	**0.00**	0.16	0.06
Feb 23	S	0.02	0.02	0.02	0.01	0.03	0.01	0.01	0.02	0	0.01	0.02	0.01	0.03	0.01	0.02	0.03	0.04	0.03	0.1	0.06	0.06	0.03	S	**0.00**	0.10	0.03
Feb 24	0.09	0.07	0.08	0.05	0.02	0.02	0.03	0.05	0.04	0.1	0.06	0.04	0.05	0.06	0.04	0.15	0.04	0.06	0.04	0.02	0.06	0.07	S	0.07	0.02	0.15	0.06
Feb 25	0.04	0.03	0.1	0.09	0.07	0.04	0.04	0.1	0.1	0.03	0.08	0.06	0.07	0.12	0.14	0.09	0.09	0.03	0.05	0.06	0.11	S	0.11	0.18	0.03	0.18	0.08
Feb 26	0.09	0.17	0.19	0.18	0.18	0.06	0.12	0.05	0.04	0.03	0.09	0.05	0.11	0.08	0.15	0.03	0.11	0.1	0.13	0.15	S	0.16	0.24	0.12	0.03	0.24	0.11
Feb 27	0.12	0.11	0.09	0.21	0.18	0.18	0.13	0.17	0.08	0.12	0.06	0.04	0.05	0.11	0.09	0.05	0.14	0.08	0.09	S	0.07	0.12	0.09	0.06	0.04	0.21	0.11
Feb 28	0.12	0.14	0.14	0.06	0.12	0.1	0.11	0.08	0.05	0.07	0.11	0.09	0.09	0.04	0.05	0.09	0.1	0.09	S	0.15	0.17	0.18	0.19	0.06	0.04	0.19	0.10
Diurnal Maximum	0.22	0.29	0.21	0.27	0.23	0.27	0.23	0.22	0.24	0.26	0.30	0.27	0.29	0.30	0.48	0.21	0.33	0.26	0.33	0.26	0.36	0.29	0.30	0.27			
Diurnal Average	0.09	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.07	0.08	0.09	0.07	0.10	0.09	0.09	0.09	0.09	0.07	0.09	0.09	0.10	0.10	0.11	0.09			

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

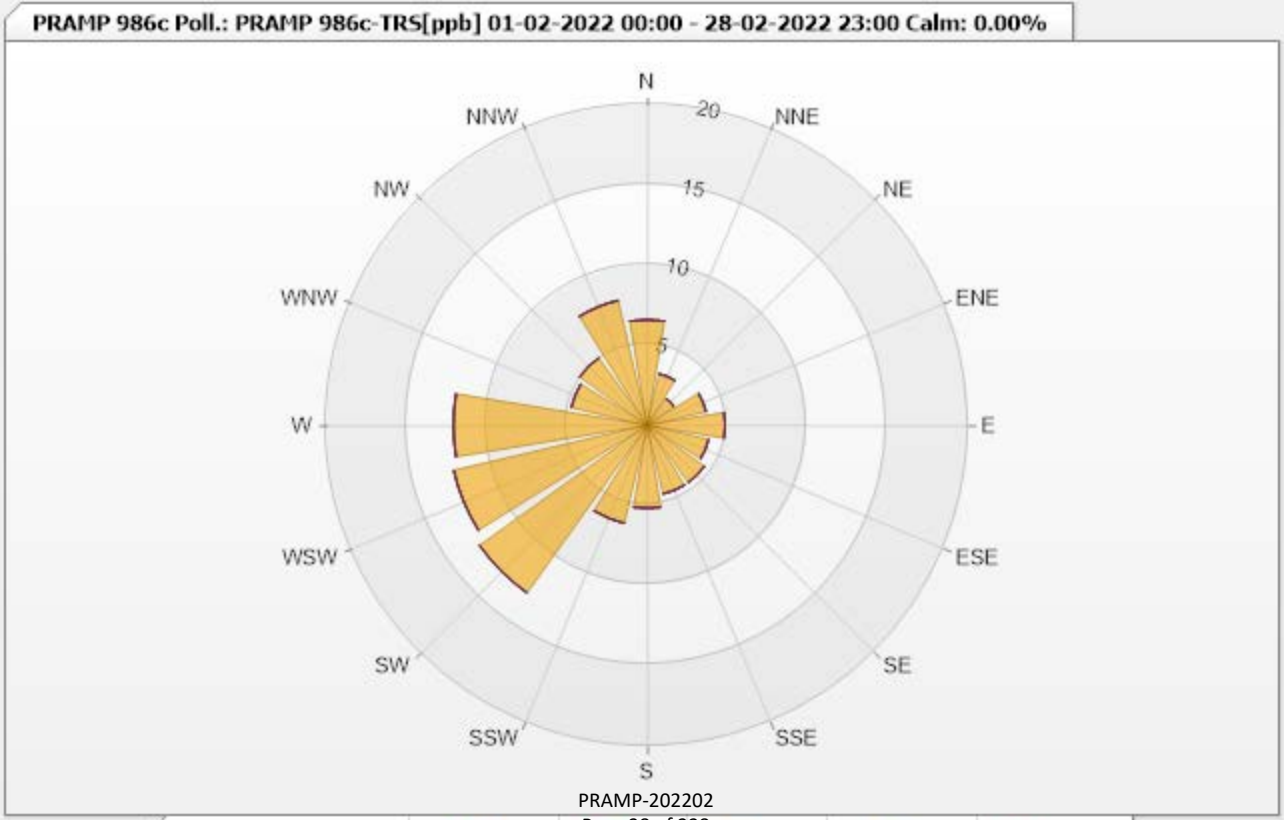




Classes	TRS
<=0	0.00%
0 - 1	100.00%
1 - 2	0.00%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-TRS[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.94% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	6.58	0	0	0	0	6.58
NNE	3.29	0	0	0	0	3.29
NE	2.04	0	0	0	0	2.04
ENE	3.76	0	0	0	0	3.76
E	4.86	0	0	0	0	4.86
ESE	3.92	0	0	0	0	3.92
SE	4.39	0	0	0	0	4.39
SSE	4.39	0	0	0	0	4.39
S	5.17	0	0	0	0	5.17
SSW	6.27	0	0	0	0	6.27
SW	12.85	0	0	0	0	12.85
WSW	12.38	0	0	0	0	12.38
W	12.07	0	0	0	0	12.07
WNW	4.86	0	0	0	0	4.86
NW	5.17	0	0	0	0	5.17
NNW	7.99	0	0	0	0	7.99
Summary	100	0	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-TRS[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% 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

986c Station - February 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

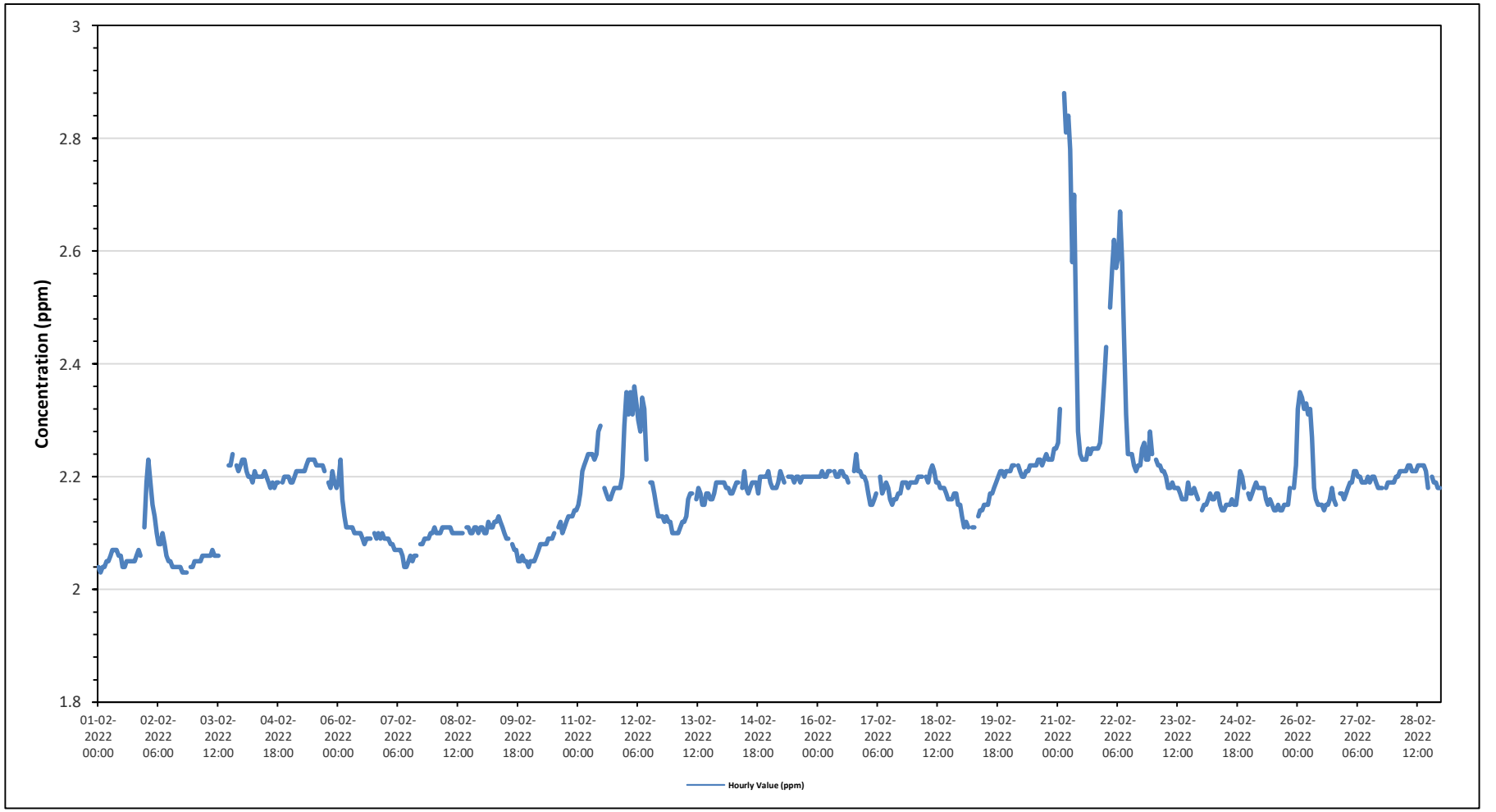
Maximum Hourly Value:	2.88	ppm	on February 21 at hour 3	Hours in Service:	672
Maximum Daily Value:	2.40	ppm	on February 21	Hours of Data:	636
Minimum Hourly Value:	2.03	ppm	on February 1 at hour 1	Hours of Missing Data:	3
Minimum Daily Value:	2.06	ppm	on February 1	Hours of Calibration:	33
Monthly Average:	2.18	ppm		Operational Uptime:	99.6

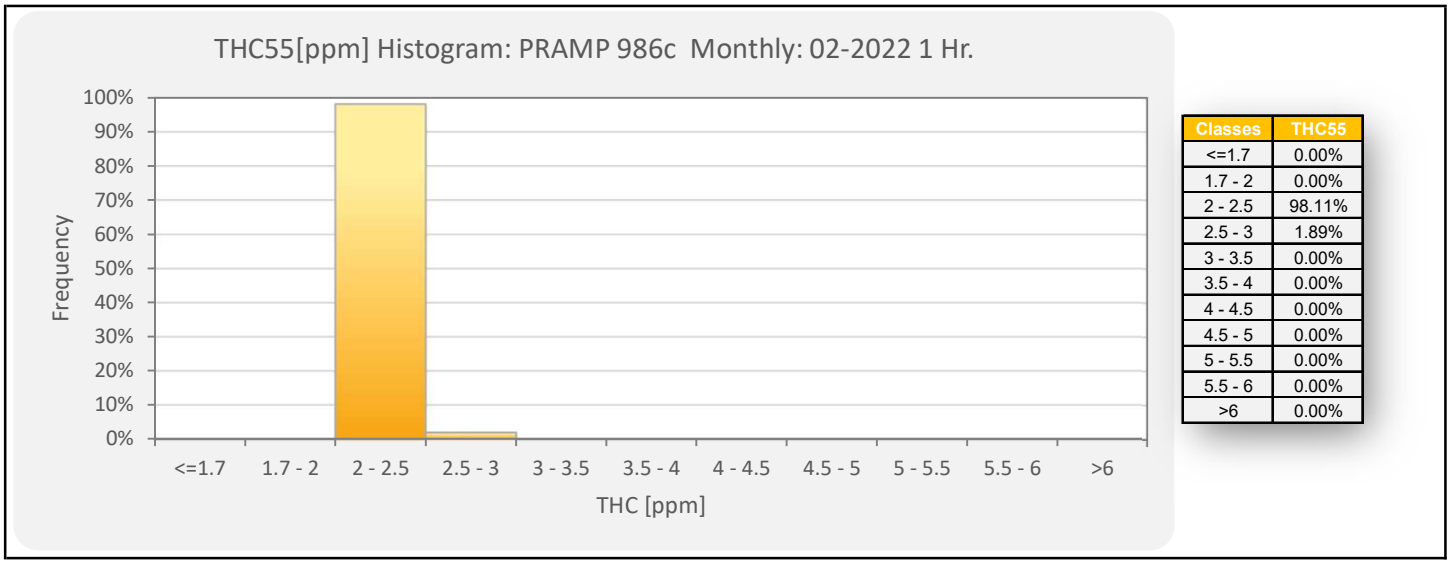
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	2.04	2.03	2.04	2.04	2.05	2.05	2.06	2.07	2.07	2.07	2.06	2.06	2.04	2.04	2.05	2.05	2.05	2.05	2.05	2.06	2.07	2.06	S	2.11	**2.03**	2.11	2.06
Feb 2	2.19	2.23	2.19	2.15	2.13	2.10	2.08	2.08	2.10	2.08	2.06	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	S	2.04	2.04	**2.03**	2.23	2.08
Feb 3	2.05	2.05	2.05	2.05	2.06	2.06	2.06	2.06	2.06	2.07	2.06	2.06	2.06	C	C	C	C	2.22	2.22	2.24	S	2.22	2.21	2.22	2.05	2.24	2.11
Feb 4	2.23	2.23	2.21	2.20	2.20	2.19	2.21	2.20	2.20	2.20	2.20	2.21	2.20	2.19	2.18	2.19	2.18	2.19	2.19	S	2.19	2.20	2.20	2.20	2.18	2.23	2.20
Feb 5	2.19	2.19	2.20	2.21	2.21	2.21	2.21	2.21	2.22	2.23	2.23	2.23	2.23	2.22	2.22	2.22	2.22	2.21	S	2.19	2.18	2.21	2.19	2.18	2.18	2.23	2.21
Feb 6	2.19	2.23	2.16	2.13	2.11	2.11	2.11	2.11	2.10	2.10	2.10	2.10	2.09	2.08	2.09	2.09	2.09	S	2.10	2.09	2.10	2.09	2.10	2.09	2.08	2.23	2.11
Feb 7	2.09	2.09	2.08	2.08	2.07	2.07	2.07	2.07	2.06	2.04	2.04	2.05	2.06	2.05	2.06	2.06	S	2.08	2.08	2.09	2.09	2.09	2.10	2.10	2.04	2.10	2.07
Feb 8	2.11	2.10	2.10	2.10	2.11	2.11	2.11	2.11	2.11	2.10	2.10	2.10	2.10	2.10	2.10	S	2.11	2.11	2.10	2.10	2.11	2.11	2.10	2.11	2.10	2.11	2.10
Feb 9	2.11	2.10	2.10	2.12	2.11	2.11	2.12	2.12	2.13	2.12	2.11	2.10	2.09	2.09	S	2.08	2.07	2.07	2.05	2.05	2.06	2.05	2.05	2.04	2.04	2.13	2.09
Feb 10	2.05	2.05	2.05	2.06	2.07	2.08	2.08	2.08	2.08	2.09	2.09	2.09	2.10	S	2.11	2.12	2.10	2.11	2.12	2.13	2.13	2.13	2.14	2.14	2.05	2.14	2.10
Feb 11	2.15	2.17	2.21	2.22	2.23	2.24	2.24	2.24	2.23	2.24	2.28	2.29	S	2.18	2.17	2.16	2.16	2.17	2.18	2.18	2.18	2.18	2.20	2.29	2.15	2.29	2.21
Feb 12	2.35	2.31	2.35	2.31	2.36	2.33	2.30	2.28	2.34	2.32	2.23	S	2.19	2.19	2.17	2.15	2.13	2.13	2.13	2.12	2.13	2.12	2.12	2.10	2.10	2.36	2.22
Feb 13	2.10	2.10	2.10	2.11	2.12	2.12	2.13	2.16	2.17	2.17	S	2.16	2.18	2.17	2.15	2.15	2.17	2.17	2.16	2.16	2.17	2.19	2.19	2.19	2.10	2.19	2.15
Feb 14	2.19	2.19	2.18	2.18	2.17	2.17	2.18	2.19	2.19	S	2.18	2.21	2.18	2.17	2.18	2.19	2.19	2.19	2.17	2.20	2.20	2.20	2.20	2.21	2.17	2.21	2.19
Feb 15	2.19	2.18	2.18	2.18	2.19	2.21	2.20	2.19	S	2.20	2.20	2.20	2.19	2.20	2.20	2.19	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.18	2.21	2.20
Feb 16	2.20	2.20	2.21	2.20	2.20	2.21	2.21	S	2.21	2.20	2.20	2.21	2.21	2.20	2.20	2.19	NRM	NRM	2.21	2.24	2.21	2.21	2.20	2.20	2.19	2.24	2.21
Feb 17	2.19	2.17	2.15	2.15	2.16	2.17	S	2.20	2.17	2.18	2.19	2.18	2.16	2.15	2.16	2.16	2.17	2.17	2.19	2.19	2.19	2.18	2.19	2.19	2.15	2.20	2.17
Feb 18	2.19	2.19	2.20	2.20	2.20	S	2.20	2.19	2.21	2.22	2.21	2.19	2.19	2.18	2.18	2.18	2.17	2.16	2.16	2.16	2.17	2.17	2.15	2.15	2.15	2.22	2.18
Feb 19	2.13	2.11	2.12	2.11	S	2.11	2.11	NRM	2.13	2.14	2.14	2.15	2.15	2.15	2.17	2.17	2.18	2.19	2.20	2.21	2.21	2.20	2.21	2.21	2.11	2.21	2.16
Feb 20	2.21	2.22	2.22	S	2.22	2.21	2.20	2.20	2.21	2.21	2.22	2.22	2.22	2.22	2.23	2.23	2.22	2.23	2.24	2.23	2.23	2.23	2.25	2.25	2.20	2.25	2.22
Feb 21	2.26	2.32	S	**2.88**	2.81	2.84	2.78	2.58	2.70	2.46	2.28	2.24	2.23	2.23	2.23	2.25	2.24	2.25	2.25	2.25	2.25	2.26	2.31	2.37	2.23	**2.88**	**2.40**
Feb 22	2.43	S	2.50	2.57	2.62	2.57	2.59	2.67	2.58	2.45	2.31	2.24	2.24	2.24	2.22	2.21	2.22	2.22	2.25	2.26	2.23	2.23	2.28	2.24	2.21	2.67	2.36
Feb 23	S	2.23	2.22	2.22	2.21	2.21	2.20	2.18	2.18	2.19	2.18	2.18	2.18	2.17	2.16	2.16	2.16	2.19	2.17	2.17	2.18	2.17	2.16	S	2.16	2.23	2.19
Feb 24	2.14	2.15	2.15	2.16	2.17	2.16	2.16	2.17	2.17	2.15	2.14	2.14	2.15	2.15	2.15	2.16	2.15	2.15	2.18	2.21	2.20	2.18	S	2.17	2.14	2.21	2.16
Feb 25	2.16	2.17	2.18	2.19	2.18	2.18	2.18	2.18	2.16	2.15	2.16	2.15	2.14	2.14	2.15	2.14	2.14	2.15	2.15	2.15	2.18	S	2.18	2.22	2.14	2.22	2.16
Feb 26	2.32	2.35	2.34	2.32	2.33	2.31	2.32	2.27	2.18	2.16	2.15	2.15	2.15	2.14	2.15	2.15	2.16	2.18	2.16	2.15	S	2.17	2.17	2.16	2.14	2.35	2.21
Feb 27	2.17	2.18	2.19	2.19	2.21	2.21	2.20	2.20	2.19	2.19	2.19	2.20	2.19	2.20	2.20	2.19	2.18	2.18	2.18	S	2.18	2.19	2.19	2.19	2.17	2.21	2.19
Feb 28	2.19	2.20	2.20	2.21	2.21	2.21	2.21	2.22	2.22	2.21	2.21	2.21	2.22	2.22	2.22	2.22	2.21	2.18	S	2.20	2.19	2.19	2.18	2.18	2.18	2.22	2.20
Diurnal Maximum	2.43	2.35	2.50	2.88	2.81	2.84	2.78	2.67	2.70	2.46	2.31	2.29	2.24	2.24	2.23	2.25	2.24	2.25	2.25	2.26	2.25	2.26	2.31	2.37			
Diurnal Average	2.18	2.18	2.18	2.21	2.21	2.21	2.20	2.20	2.20	2.18	2.17	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.17	2.17	2.18			

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 THC - 986c Station

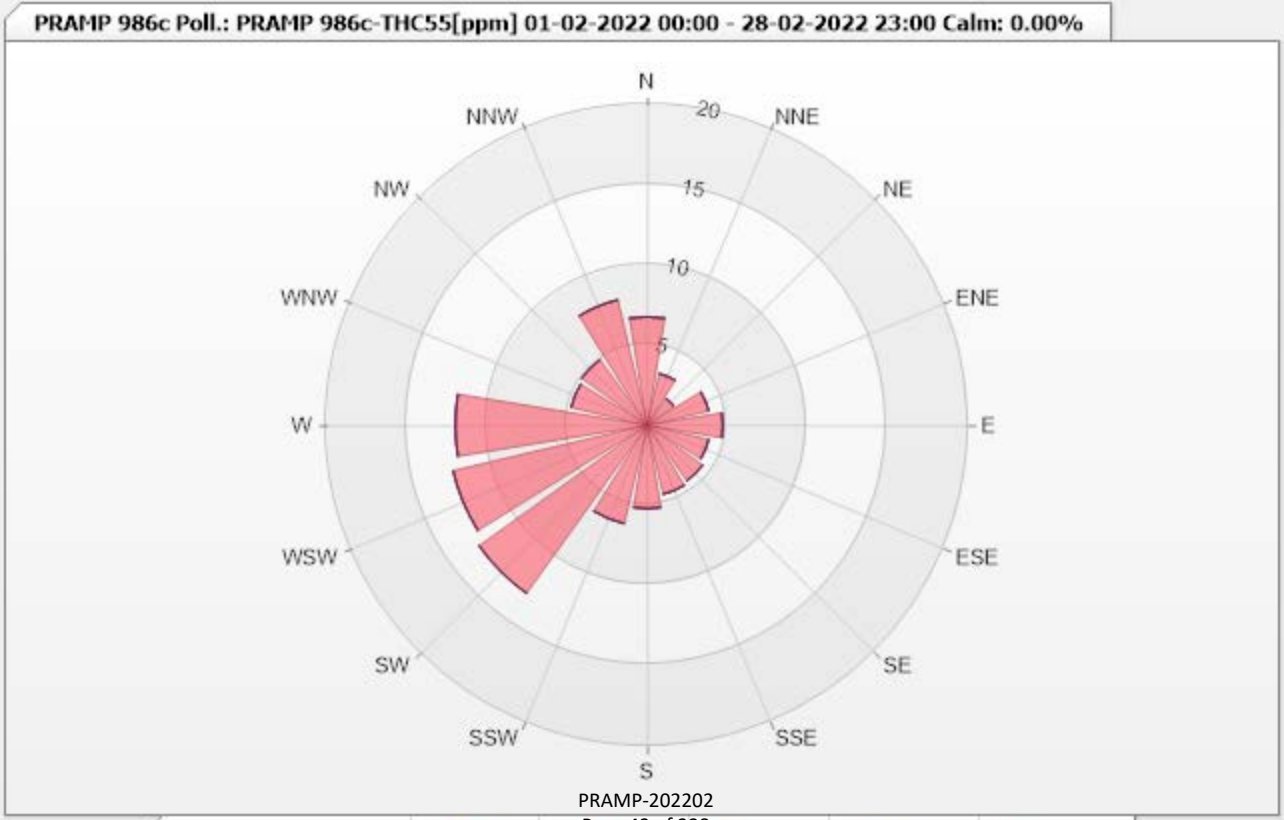




Classes	THC55
<=1.7	0.00%
1.7 - 2	0.00%
2 - 2.5	98.11%
2.5 - 3	1.89%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-THC55[ppm] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.64% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0	6.76	0	0	0	6.76
NNE	0	3.3	0	0	0	3.3
NE	0	2.04	0	0	0	2.04
ENE	0	3.93	0	0	0	3.93
E	0	4.72	0	0	0	4.72
ESE	0	3.93	0	0	0	3.93
SE	0	4.25	0	0	0	4.25
SSE	0	4.4	0	0	0	4.4
S	0	5.19	0	0	0	5.19
SSW	0	6.29	0	0	0	6.29
SW	0	12.89	0	0	0	12.89
WSW	0	12.42	0	0	0	12.42
W	0	11.95	0	0	0	11.95
WNW	0	4.87	0	0	0	4.87
NW	0	5.03	0	0	0	5.03
NNW	0	8.02	0	0	0	8.02
Summary	0	100	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-THC55[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
0 0-2
100 2-5
0 5-10
0 10-40
0 >40.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

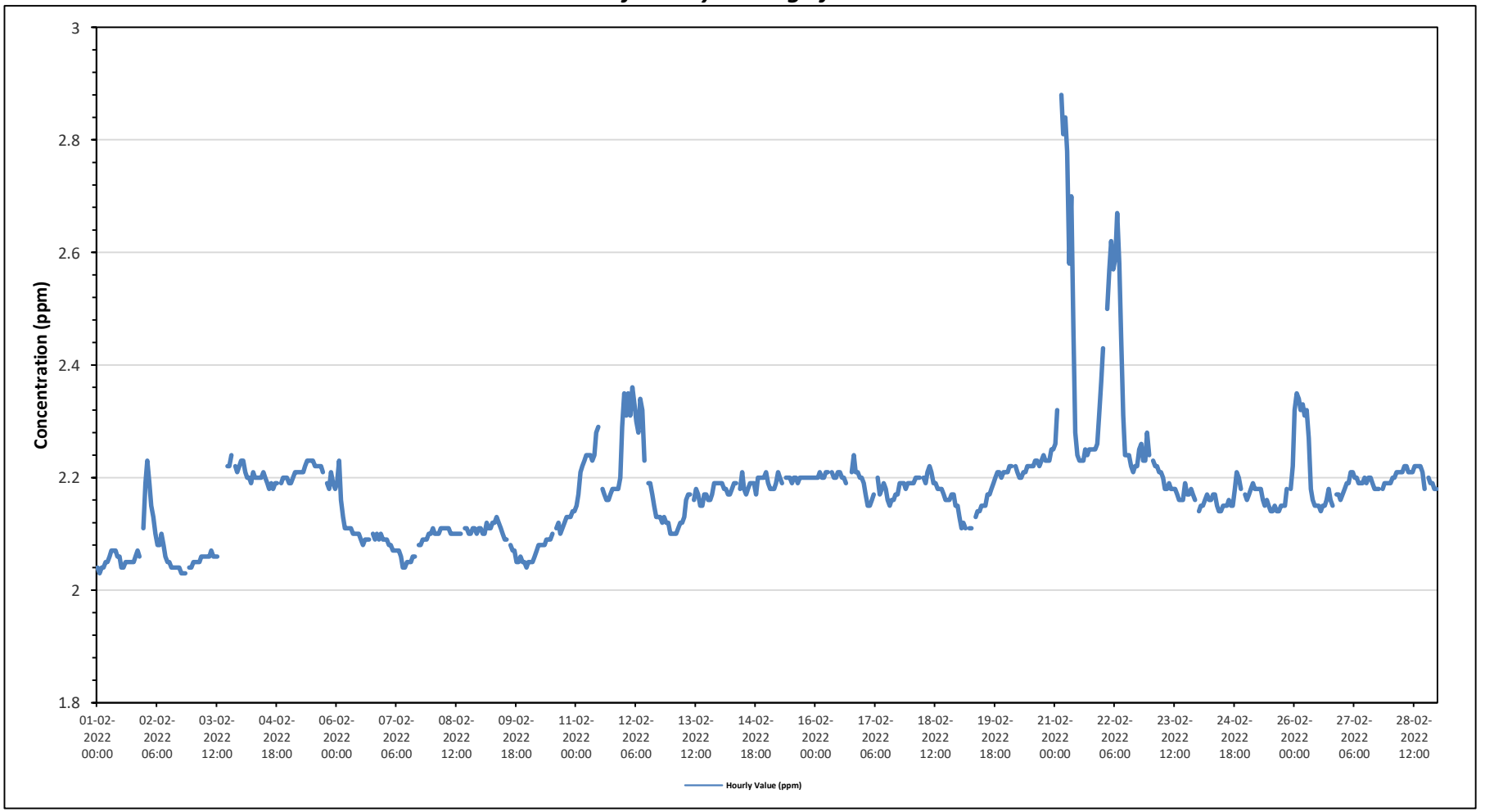
Maximum Hourly Value:	2.88	ppm	on February 21 at hour 3	Hours in Service:	672
Maximum Daily Value:	2.40	ppm	on February 21	Hours of Data:	636
Minimum Hourly Value:	2.03	ppm	on February 1 at hour 1	Hours of Missing Data:	3
Minimum Daily Value:	2.06	ppm	on February 1	Hours of Calibration:	33
Monthly Average:	2.18	ppm		Operational Uptime:	99.6

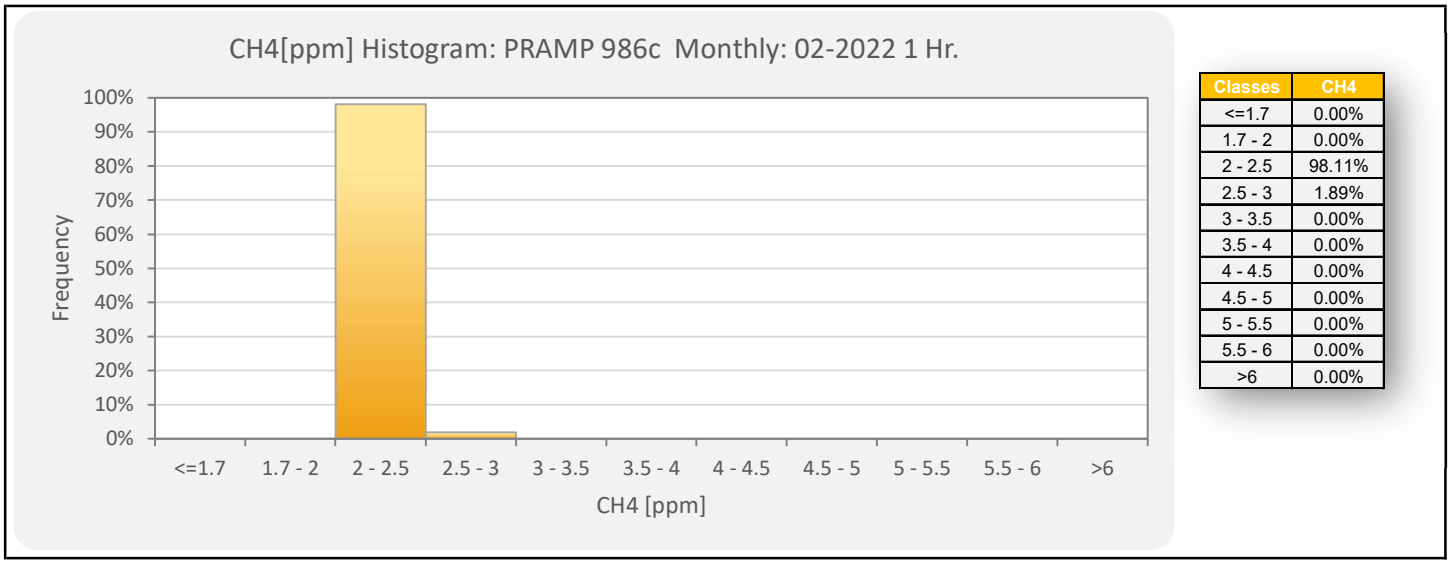
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	2.04	2.03	2.04	2.04	2.05	2.05	2.06	2.07	2.07	2.07	2.06	2.06	2.04	2.04	2.05	2.05	2.05	2.05	2.05	2.06	2.07	2.06	S	2.11	**2.03**	2.11	2.06
Feb 2	2.19	2.23	2.19	2.15	2.13	2.10	2.08	2.08	2.10	2.08	2.06	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.03	S	2.04	2.04	**2.03**	2.23	2.08
Feb 3	2.05	2.05	2.05	2.05	2.06	2.06	2.06	2.06	2.06	2.07	2.06	2.06	2.06	C	C	C	C	2.22	2.22	2.24	S	2.22	2.21	2.22	2.05	2.24	2.11
Feb 4	2.23	2.23	2.21	2.20	2.20	2.19	2.21	2.20	2.20	2.20	2.20	2.21	2.20	2.19	2.18	2.19	2.18	2.19	2.19	S	2.19	2.20	2.20	2.20	2.18	2.23	2.20
Feb 5	2.19	2.19	2.20	2.21	2.21	2.21	2.21	2.21	2.22	2.23	2.23	2.23	2.23	2.22	2.22	2.22	2.22	2.21	S	2.19	2.18	2.21	2.19	2.18	2.18	2.23	2.21
Feb 6	2.19	2.23	2.16	2.13	2.11	2.11	2.11	2.11	2.10	2.10	2.10	2.10	2.09	2.08	2.09	2.09	2.09	S	2.10	2.09	2.10	2.09	2.10	2.09	2.08	2.23	2.11
Feb 7	2.09	2.09	2.08	2.08	2.07	2.07	2.07	2.07	2.06	2.04	2.04	2.05	2.05	2.05	2.06	2.06	S	2.08	2.08	2.09	2.09	2.09	2.10	2.10	2.04	2.10	2.07
Feb 8	2.11	2.10	2.10	2.10	2.11	2.11	2.11	2.11	2.11	2.10	2.10	2.10	2.10	2.10	2.10	S	2.11	2.11	2.10	2.10	2.11	2.11	2.10	2.11	2.10	2.11	2.10
Feb 9	2.11	2.10	2.10	2.12	2.11	2.11	2.12	2.12	2.13	2.12	2.11	2.10	2.09	2.09	S	2.08	2.07	2.07	2.05	2.05	2.06	2.05	2.05	2.04	2.04	2.13	2.09
Feb 10	2.05	2.05	2.05	2.06	2.07	2.08	2.08	2.08	2.08	2.09	2.09	2.09	2.10	S	2.11	2.12	2.10	2.11	2.12	2.13	2.13	2.13	2.14	2.14	2.05	2.14	2.10
Feb 11	2.15	2.17	2.21	2.22	2.23	2.24	2.24	2.24	2.23	2.24	2.28	2.29	S	2.18	2.17	2.16	2.16	2.17	2.18	2.18	2.18	2.18	2.20	2.29	2.15	2.29	2.21
Feb 12	2.35	2.31	2.35	2.31	2.36	2.33	2.30	2.28	2.34	2.32	2.23	S	2.19	2.19	2.17	2.15	2.13	2.13	2.13	2.12	2.13	2.12	2.12	2.10	2.10	2.36	2.22
Feb 13	2.10	2.10	2.10	2.11	2.12	2.12	2.13	2.16	2.17	2.17	S	2.16	2.18	2.17	2.15	2.15	2.17	2.17	2.16	2.16	2.17	2.19	2.19	2.19	2.10	2.19	2.15
Feb 14	2.19	2.19	2.18	2.18	2.17	2.17	2.18	2.19	2.19	S	2.18	2.21	2.18	2.17	2.18	2.19	2.19	2.19	2.17	2.20	2.20	2.20	2.20	2.21	2.17	2.21	2.19
Feb 15	2.19	2.18	2.18	2.18	2.19	2.21	2.20	2.19	S	2.20	2.20	2.20	2.19	2.20	2.20	2.19	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.18	2.21	2.20
Feb 16	2.20	2.20	2.21	2.20	2.20	2.21	2.21	S	2.21	2.20	2.20	2.21	2.21	2.20	2.20	2.19	NRM	NRM	2.21	2.24	2.21	2.21	2.20	2.20	2.19	2.24	2.21
Feb 17	2.19	2.17	2.15	2.15	2.16	2.17	S	2.20	2.17	2.18	2.19	2.18	2.16	2.15	2.16	2.16	2.17	2.17	2.19	2.19	2.19	2.18	2.19	2.19	2.15	2.20	2.17
Feb 18	2.19	2.19	2.20	2.20	2.20	S	2.20	2.19	2.21	2.22	2.21	2.19	2.19	2.18	2.18	2.18	2.17	2.16	2.16	2.16	2.17	2.17	2.15	2.15	2.15	2.22	2.18
Feb 19	2.13	2.11	2.12	2.11	S	2.11	2.11	NRM	2.13	2.14	2.14	2.15	2.15	2.15	2.17	2.17	2.18	2.19	2.20	2.21	2.21	2.20	2.21	2.21	2.11	2.21	2.16
Feb 20	2.21	2.22	2.22	S	2.22	2.21	2.20	2.20	2.21	2.21	2.22	2.22	2.22	2.22	2.23	2.23	2.22	2.23	2.24	2.23	2.23	2.23	2.25	2.25	2.20	2.25	2.22
Feb 21	2.26	2.32	S	**2.88**	2.81	2.84	2.78	2.58	2.70	2.46	2.28	2.24	2.23	2.23	2.23	2.25	2.24	2.25	2.25	2.25	2.25	2.26	2.31	2.37	2.23	**2.88**	**2.40**
Feb 22	2.43	S	2.50	2.57	2.62	2.57	2.59	2.67	2.58	2.45	2.31	2.24	2.24	2.24	2.22	2.21	2.22	2.22	2.25	2.26	2.23	2.23	2.28	2.24	2.21	2.67	2.36
Feb 23	S	2.23	2.22	2.22	2.21	2.21	2.20	2.18	2.18	2.19	2.18	2.18	2.18	2.17	2.16	2.16	2.16	2.19	2.17	2.17	2.18	2.17	2.16	S	2.16	2.23	2.19
Feb 24	2.14	2.15	2.15	2.16	2.17	2.16	2.16	2.17	2.17	2.15	2.14	2.14	2.15	2.15	2.15	2.16	2.15	2.15	2.18	2.21	2.20	2.18	S	2.17	2.14	2.21	2.16
Feb 25	2.16	2.17	2.18	2.19	2.18	2.18	2.18	2.18	2.16	2.15	2.16	2.15	2.14	2.14	2.15	2.14	2.14	2.15	2.15	2.15	2.18	S	2.18	2.22	2.14	2.22	2.16
Feb 26	2.32	2.35	2.34	2.32	2.33	2.31	2.32	2.27	2.18	2.16	2.15	2.15	2.15	2.14	2.15	2.15	2.16	2.18	2.16	2.15	S	2.17	2.17	2.16	2.14	2.35	2.21
Feb 27	2.17	2.18	2.19	2.19	2.21	2.21	2.20	2.20	2.19	2.19	2.19	2.20	2.19	2.20	2.20	2.19	2.18	2.18	2.18	S	2.18	2.19	2.19	2.19	2.17	2.21	2.19
Feb 28	2.19	2.20	2.20	2.21	2.21	2.21	2.21	2.22	2.22	2.21	2.21	2.21	2.22	2.22	2.22	2.22	2.21	2.18	S	2.20	2.19	2.19	2.18	2.18	2.18	2.22	2.20
Diurnal Maximum	2.43	2.35	2.50	2.88	2.81	2.84	2.78	2.67	2.70	2.46	2.31	2.29	2.24	2.24	2.23	2.25	2.24	2.25	2.25	2.26	2.25	2.26	2.31	2.37			
Diurnal Average	2.18	2.18	2.18	2.21	2.21	2.21	2.20	2.20	2.20	2.18	2.17	2.16	2.15	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.17	2.17	2.18			

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 CH4 - 986c Station

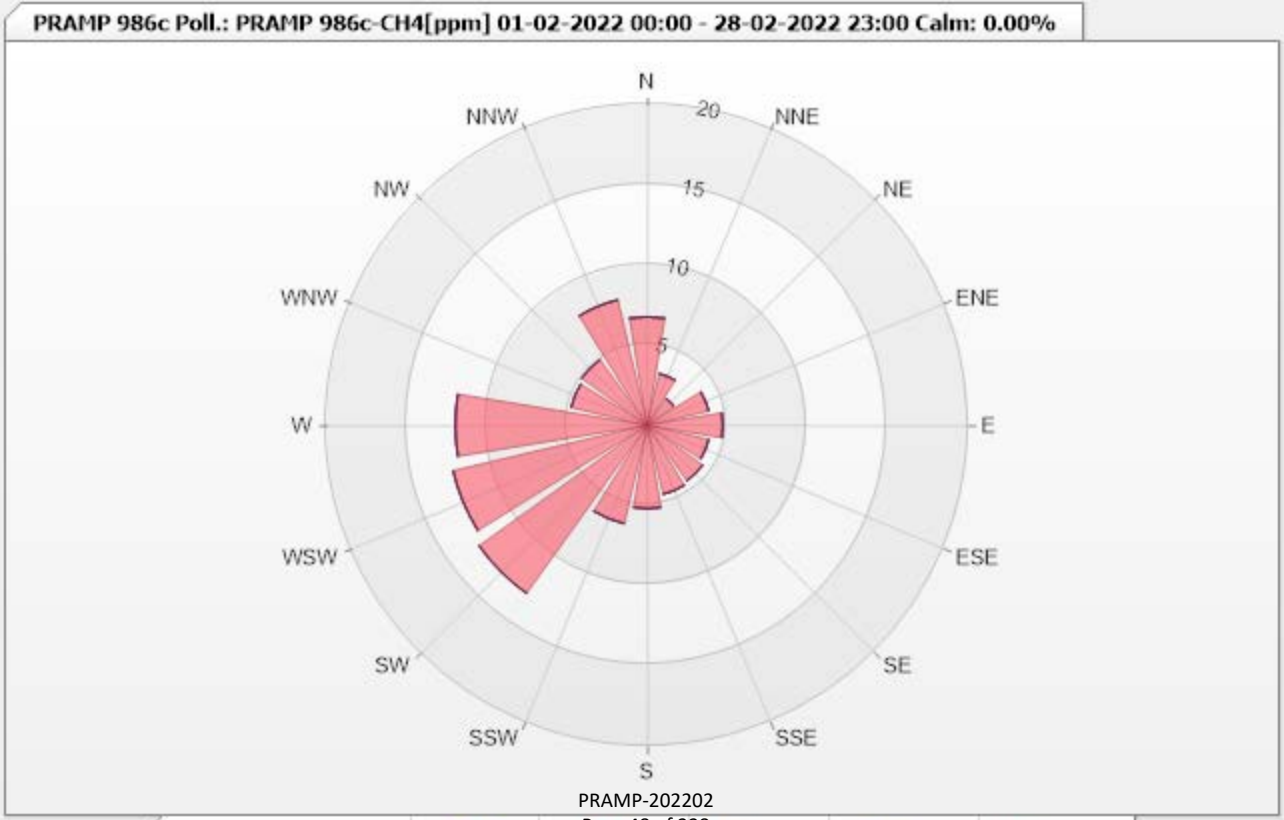




Classes	CH4
<=1.7	0.00%
1.7 - 2	0.00%
2 - 2.5	98.11%
2.5 - 3	1.89%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-CH4[ppm] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.64% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0	6.76	0	0	0	6.76
NNE	0	3.3	0	0	0	3.3
NE	0	2.04	0	0	0	2.04
ENE	0	3.93	0	0	0	3.93
E	0	4.72	0	0	0	4.72
ESE	0	3.93	0	0	0	3.93
SE	0	4.25	0	0	0	4.25
SSE	0	4.4	0	0	0	4.4
S	0	5.19	0	0	0	5.19
SSW	0	6.29	0	0	0	6.29
SW	0	12.89	0	0	0	12.89
WSW	0	12.42	0	0	0	12.42
W	0	11.95	0	0	0	11.95
WNW	0	4.87	0	0	0	4.87
NW	0	5.03	0	0	0	5.03
NNW	0	8.02	0	0	0	8.02
Summary	0	100	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-CH4[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
0 0-2
100 2-5
0 5-10
0 10-20
0 >20.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

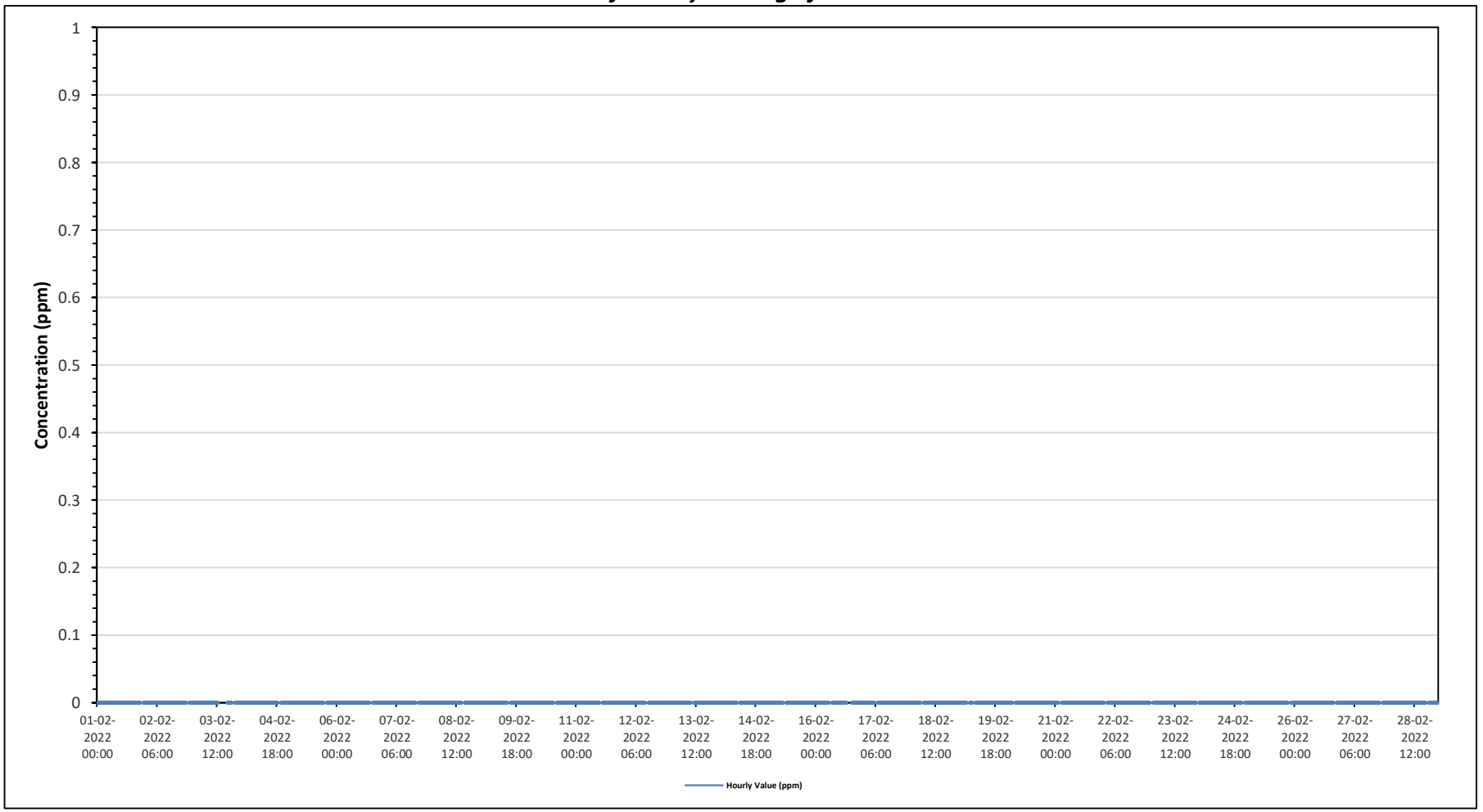
Maximum Hourly Value:	0.00	ppm	on February 1 at hour 0	Hours in Service:	672
Maximum Daily Value:	0.00	ppm	on February 1	Hours of Data:	636
Minimum Hourly Value:	0.00	ppm	on February 1 at hour 0	Hours of Missing Data:	3
Minimum Daily Value:	0.00	ppm	on February 1	Hours of Calibration:	33
Monthly Average:	0.00	ppm		Operational Uptime:	99.6

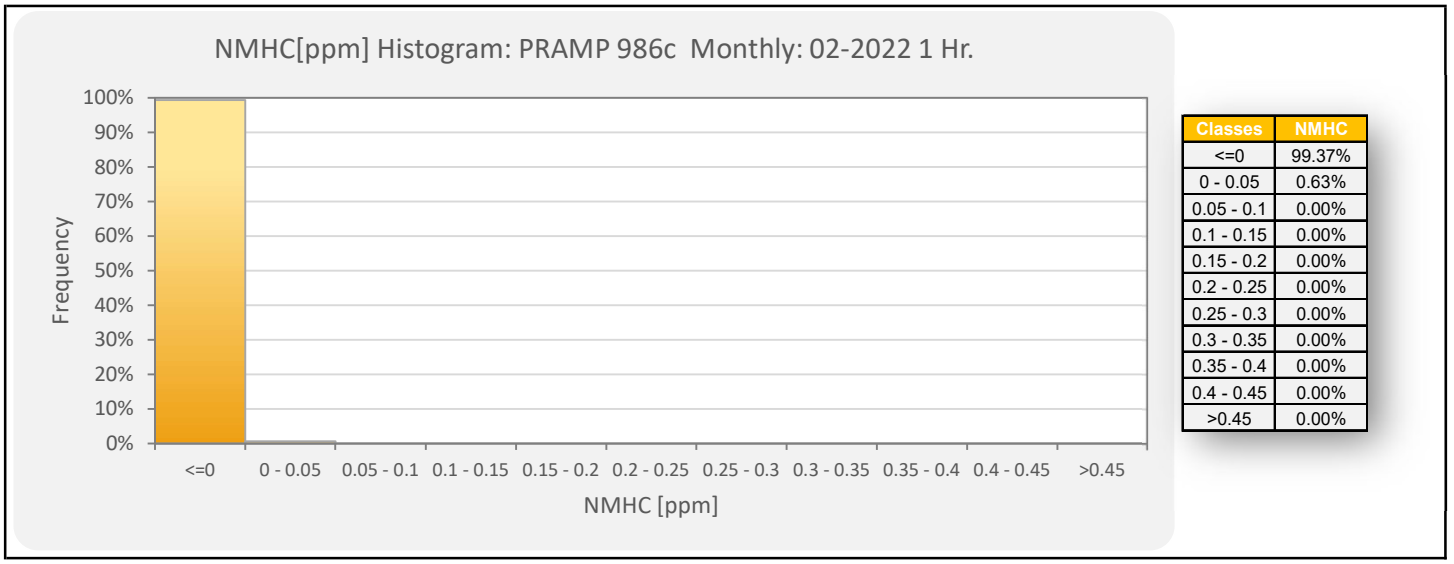
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Feb 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Feb 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Feb 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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
Feb 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
Feb 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
Feb 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
Feb 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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
Feb 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
Feb 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	NRM	NRM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 17	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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
Feb 19	0.00	0.00	0.00	0.00	S	0.00	0.00	NRM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 20	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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
Feb 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
Feb 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
Feb 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Feb 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Feb 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Feb 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	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

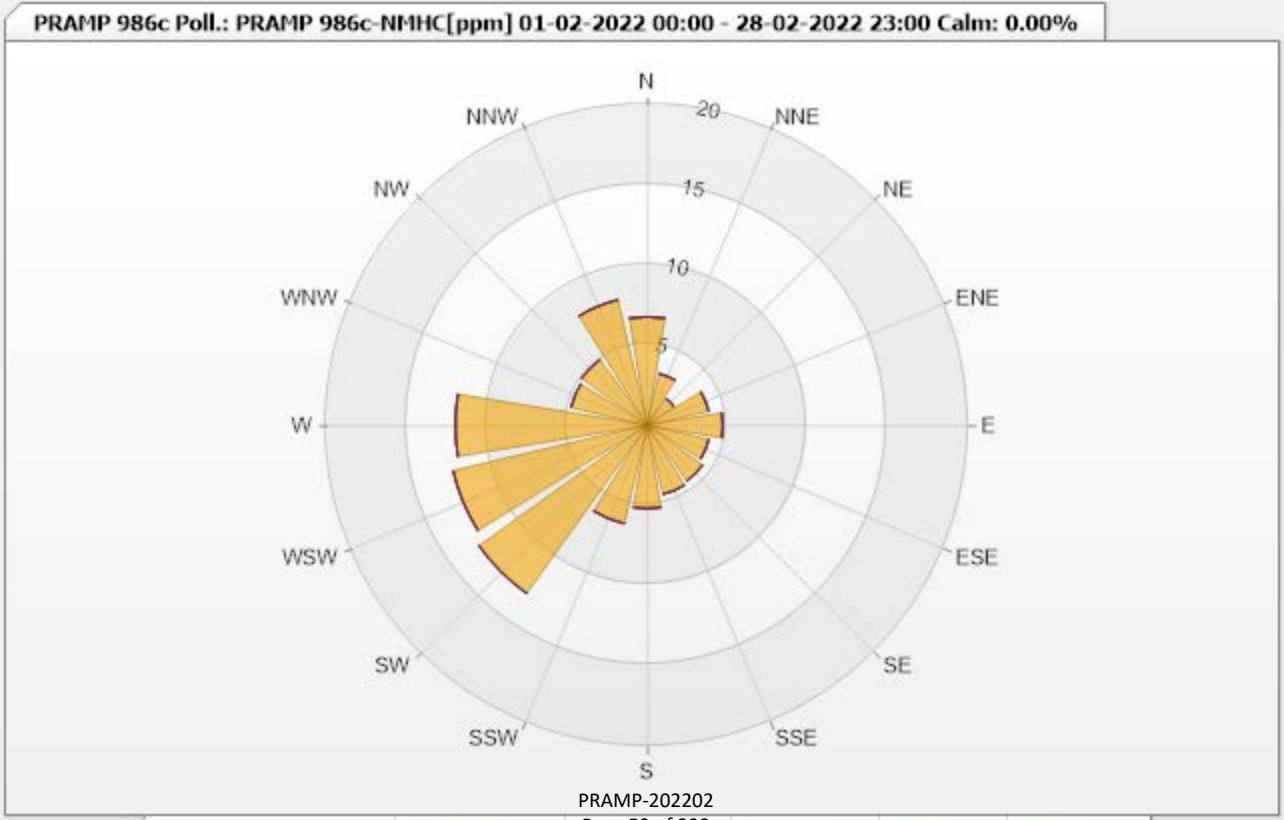




Classes	NMHC
<=0	99.37%
0 - 0.05	0.63%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-NMHC[ppm] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.64% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	6.76	0	0	0	0	6.76
NNE	3.3	0	0	0	0	3.3
NE	2.04	0	0	0	0	2.04
ENE	3.93	0	0	0	0	3.93
E	4.72	0	0	0	0	4.72
ESE	3.93	0	0	0	0	3.93
SE	4.25	0	0	0	0	4.25
SSE	4.4	0	0	0	0	4.4
S	5.19	0	0	0	0	5.19
SSW	6.29	0	0	0	0	6.29
SW	12.89	0	0	0	0	12.89
WSW	12.42	0	0	0	0	12.42
W	11.95	0	0	0	0	11.95
WNW	4.87	0	0	0	0	4.87
NW	5.03	0	0	0	0	5.03
NNW	8.02	0	0	0	0	8.02
Summary	100	0	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-NMHC[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
100 0-0.1
0 0.1-0.3
0 0.3-1
0 1-2
0 >2.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

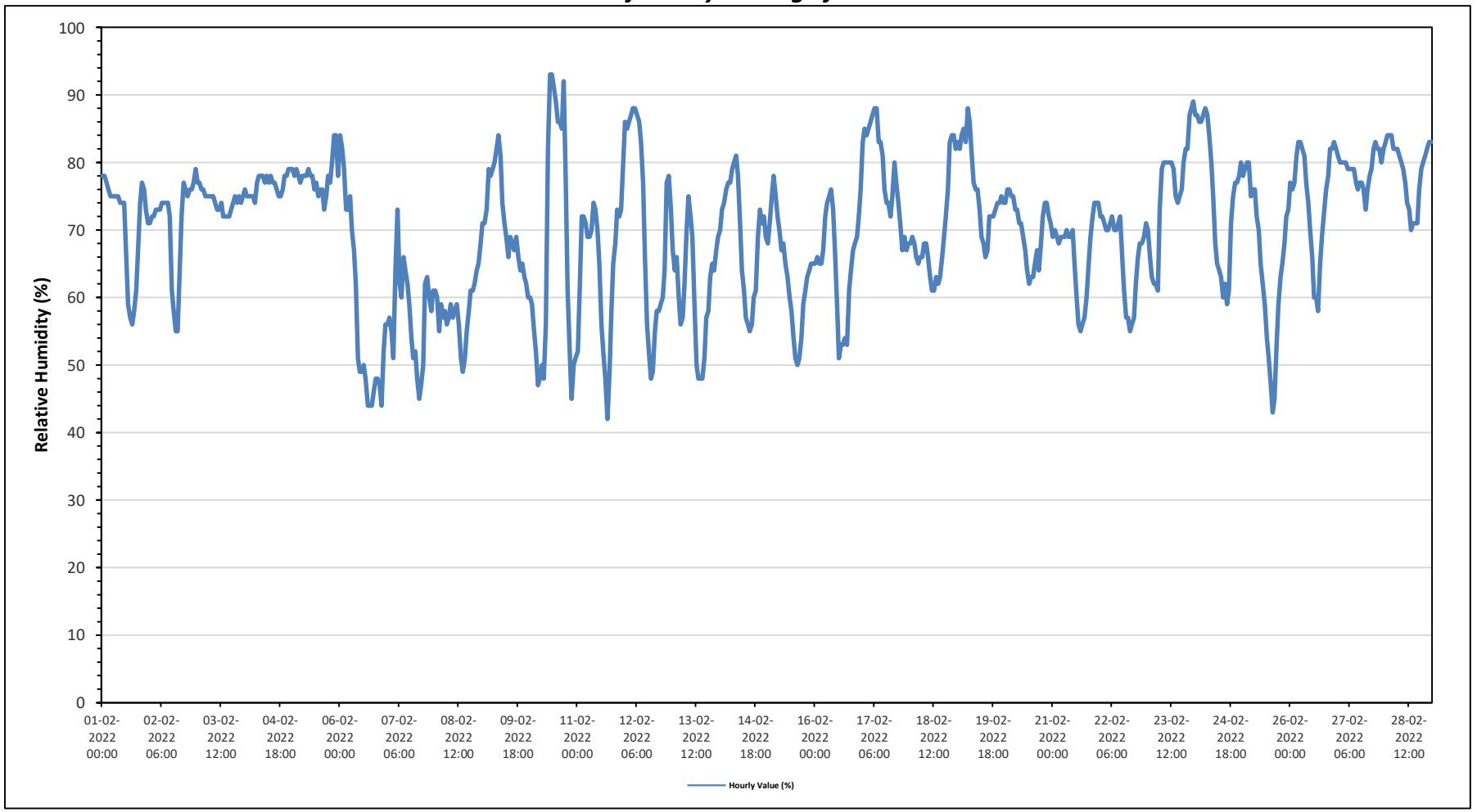
Maximum Hourly Value:	93	%	on February 10 at hour 10	Hours in Service:	672
Maximum Daily Value:	79.0	%	on February 27	Hours of Data:	672
Minimum Hourly Value:	42	%	on February 11 at hour 15	Hours of Missing Data:	0
Minimum Daily Value:	57.5	%	on February 7	Hours of Calibration:	0
Monthly Average:	69.8	%		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
Feb 1	78	78	77	76	75	75	75	75	75	74	74	74	67	59	57	56	58	61	67	74	77	76	73	71	56	78	70.9
Feb 2	71	72	72	73	73	73	74	74	74	74	72	61	58	55	55	64	72	77	76	75	76	76	77	79	55	79	71.0
Feb 3	77	77	76	76	75	75	75	75	75	74	73	73	74	72	72	72	72	73	74	75	74	75	74	75	72	77	74.3
Feb 4	76	75	75	75	75	74	77	78	78	78	77	78	77	78	77	77	76	75	75	76	78	78	79	79	74	79	76.7
Feb 5	79	78	79	78	77	78	78	78	79	78	78	76	77	75	76	76	73	75	78	77	80	84	84	78	73	84	77.9
Feb 6	84	82	79	73	73	75	70	67	62	51	49	49	50	48	44	44	44	46	48	48	47	44	52	56	44	84	57.7
Feb 7	56	57	55	51	64	73	62	60	66	64	62	59	54	51	52	48	45	47	50	62	63	60	58	61	45	73	57.5
Feb 8	61	60	55	59	57	58	56	57	59	57	58	59	56	51	49	51	55	58	61	61	62	64	65	68	49	68	58.2
Feb 9	71	71	73	79	78	79	80	82	84	81	74	71	69	66	69	68	67	69	66	64	65	63	62	60	60	84	71.3
Feb 10	60	59	55	52	47	48	50	48	56	82	**93**	**93**	91	89	86	86	85	92	77	61	52	45	50	51	45	**93**	67.0
Feb 11	52	61	72	72	71	69	69	70	74	73	70	65	56	52	48	**42**	49	58	65	68	73	72	73	80	**42**	80	64.8
Feb 12	86	85	86	87	88	88	87	86	83	77	66	56	52	48	49	55	58	58	59	60	64	77	78	73	48	88	71.1
Feb 13	67	64	66	60	56	57	62	70	75	72	69	59	50	48	48	48	51	57	58	63	65	64	67	69	48	75	61.0
Feb 14	70	73	74	76	77	77	79	80	81	78	71	64	61	57	56	55	56	60	61	69	73	71	72	69	55	81	69.2
Feb 15	68	71	75	78	75	72	70	67	68	65	63	60	58	54	51	50	51	54	59	61	63	64	65	65	50	78	63.6
Feb 16	65	66	65	65	67	72	74	75	76	73	67	59	51	53	53	54	53	61	64	67	68	69	72	76	51	76	65.2
Feb 17	83	85	84	85	86	87	88	88	83	83	81	76	74	74	72	75	80	77	74	71	67	69	67	68	67	88	78.2
Feb 18	68	69	68	66	65	66	66	68	68	66	63	61	61	63	62	63	66	69	72	76	83	84	84	82	61	84	69.1
Feb 19	83	82	84	85	83	88	86	81	77	76	76	73	69	68	66	67	72	72	72	73	74	74	75	74	66	88	76.3
Feb 20	74	76	76	75	75	73	73	71	71	69	67	64	62	63	63	65	67	64	68	72	74	74	72	71	62	76	70.0
Feb 21	69	70	69	68	69	69	69	70	69	69	70	65	60	56	55	56	57	60	65	69	72	74	74	74	55	74	66.6
Feb 22	72	72	71	70	70	71	72	70	70	71	72	66	61	57	57	55	56	57	62	66	68	68	69	71	55	72	66.4
Feb 23	70	66	63	62	62	61	73	79	80	80	80	80	80	79	75	74	75	76	80	82	82	87	88	89	61	89	76.0
Feb 24	87	87	86	86	87	88	87	84	80	75	68	65	64	63	60	62	59	61	71	75	77	77	78	80	59	88	75.3
Feb 25	78	79	80	80	75	76	76	72	70	65	62	59	54	51	47	43	45	53	59	63	65	68	72	73	43	80	65.2
Feb 26	77	76	77	81	83	83	82	81	77	74	70	66	60	60	58	65	69	73	76	78	82	82	83	82	58	83	74.8
Feb 27	81	80	80	80	80	79	79	79	79	77	76	77	77	76	73	76	78	79	82	83	82	82	80	82	73	83	**79.0**
Feb 28	83	84	84	84	82	82	82	81	80	79	77	74	73	70	71	71	71	76	79	80	81	82	83	83	70	84	78.8
Diurnal Maximum	87	87	86	87	88	88	88	88	84	83	93	93	91	89	86	86	85	92	82	83	83	87	88	89			
Diurnal Average	73.1	73.4	73.4	73.3	73.0	73.8	74.0	73.8	73.9	72.7	70.6	67.2	64.1	62.0	60.8	61.4	62.9	65.6	67.8	69.6	71.0	71.5	72.4	72.8			

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 - 986c Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

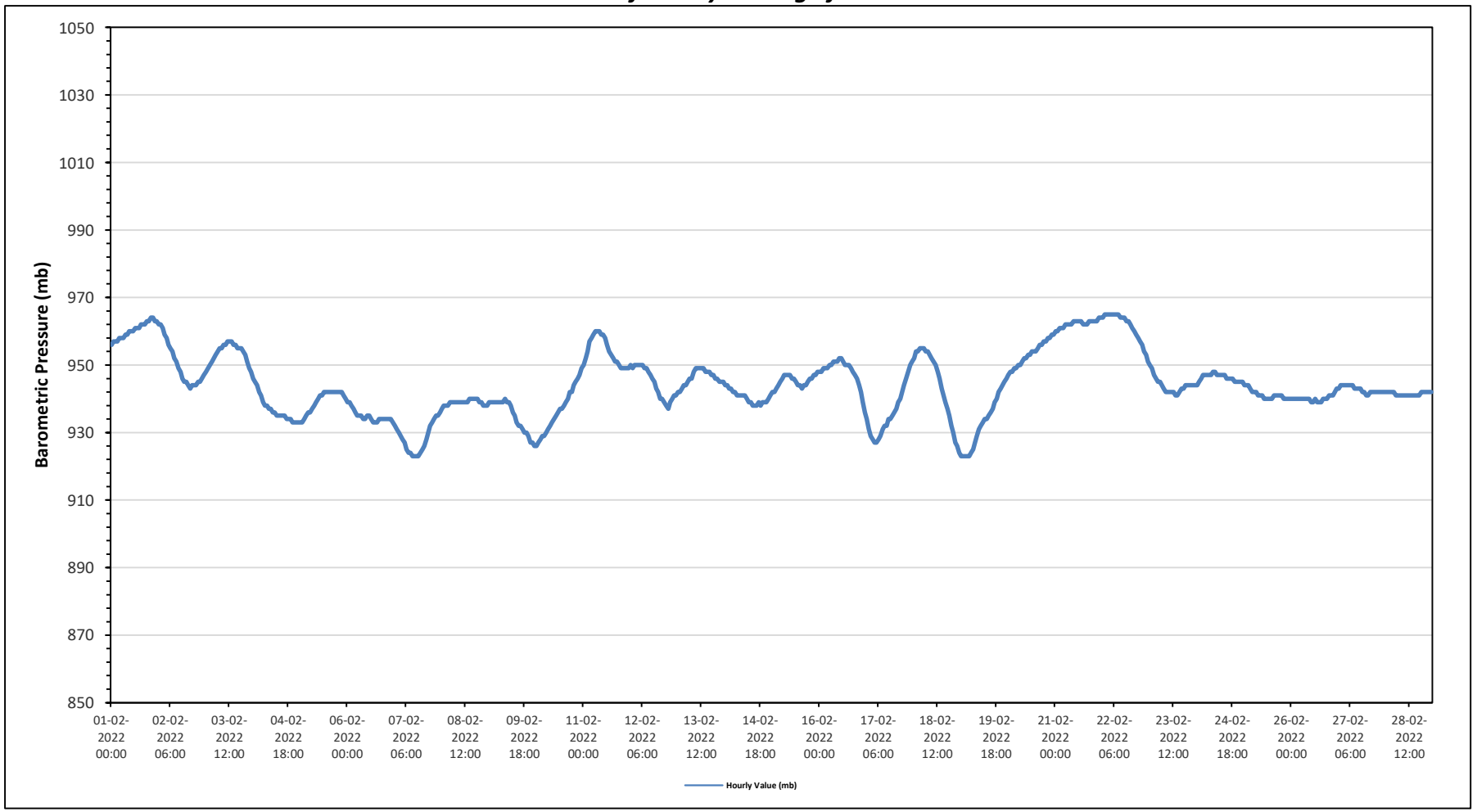
Maximum Hourly Value:	965	mb	on February 22 at hour 1	Hours in Service:	672
Maximum Daily Value:	962	mb	on February 21	Hours of Data:	672
Minimum Hourly Value:	923	mb	on February 7 at hour 9	Hours of Missing Data:	0
Minimum Daily Value:	928	mb	on February 7	Hours of Calibration:	0
Monthly Average:	944	mb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	956	957	957	957	958	958	958	959	959	960	960	960	961	961	961	962	962	962	963	963	964	964	963	963	956	964	960.3
Feb 2	962	962	961	959	958	956	955	954	952	951	949	948	946	945	945	944	943	944	944	944	945	945	946	947	943	962	950.2
Feb 3	948	949	950	951	952	953	954	955	955	956	956	957	957	957	956	956	955	955	955	954	953	951	949	948	948	957	953.4
Feb 4	946	945	944	942	941	939	938	938	937	937	936	936	935	935	935	935	935	934	934	934	933	933	933	933	933	946	937.0
Feb 5	933	933	934	935	936	936	937	938	939	940	941	941	942	942	942	942	942	942	942	942	942	942	941	940	933	942	939.3
Feb 6	939	939	938	937	936	935	935	935	934	934	935	935	934	933	933	933	934	934	934	934	934	934	934	933	933	939	934.8
Feb 7	932	931	930	929	928	927	925	924	924	**923**	**923**	**923**	**923**	924	925	926	928	930	932	933	934	935	935	936	**923**	936	928.3
Feb 8	937	938	938	938	939	939	939	939	939	939	939	939	939	939	940	940	940	940	940	939	939	938	938	938	937	940	938.9
Feb 9	939	939	939	939	939	939	939	939	940	939	939	938	936	935	933	932	932	931	930	930	929	927	927	926	926	940	934.8
Feb 10	926	927	928	929	929	930	931	932	933	934	935	936	937	937	938	939	940	942	942	944	945	946	947	949	926	949	936.5
Feb 11	950	952	954	957	958	959	960	960	960	959	959	958	956	954	953	952	951	951	950	949	949	949	949	949	949	960	954.1
Feb 12	950	949	950	950	950	950	950	949	949	948	947	946	945	943	942	940	940	939	938	937	939	940	941	941	937	950	944.7
Feb 13	942	942	943	944	944	945	946	946	948	949	949	949	949	949	948	948	948	947	947	946	946	945	945	945	942	949	946.3
Feb 14	944	944	943	943	942	942	941	941	941	941	941	940	939	939	938	938	938	939	938	939	939	939	940	941	938	944	940.4
Feb 15	942	942	943	944	945	946	947	947	947	947	946	946	945	944	944	943	944	944	945	946	946	947	947	948	942	948	945.2
Feb 16	948	948	949	949	949	950	950	951	951	951	952	952	951	950	950	950	949	948	947	946	944	942	939	936	936	952	948.0
Feb 17	934	931	929	928	927	927	928	929	931	932	932	934	934	935	936	937	939	940	942	944	946	948	950	951	927	951	936.0
Feb 18	952	954	954	955	955	955	954	954	953	952	951	950	948	946	943	941	939	937	935	932	930	927	926	924	924	955	944.5
Feb 19	**923**	**923**	**923**	**923**	**923**	924	925	927	929	931	932	933	934	934	935	936	937	939	940	942	943	944	945	946	**923**	946	933.0
Feb 20	947	948	948	949	949	950	950	951	952	952	953	953	954	954	954	955	956	956	957	957	958	958	959	959	947	959	953.3
Feb 21	960	960	961	961	961	962	962	962	962	963	963	963	963	963	962	962	962	963	963	963	963	963	964	964	960	964	**962.3**
Feb 22	964	**965**	**965**	**965**	**965**	**965**	**965**	**965**	**965**	964	964	964	963	963	962	961	960	959	958	957	956	954	953	951	951	**965**	961.4
Feb 23	950	949	947	946	945	945	944	943	942	942	942	942	942	941	941	942	943	943	944	944	944	944	944	944	941	950	943.9
Feb 24	944	945	946	947	947	947	947	947	948	948	947	947	947	947	947	946	946	946	946	945	945	945	945	945	944	948	946.3
Feb 25	944	944	944	943	942	942	942	941	941	941	940	940	940	940	940	941	941	941	941	941	940	940	940	940	940	944	941.2
Feb 26	940	940	940	940	940	940	940	940	940	940	939	939	940	939	939	939	940	940	940	941	941	941	942	943	939	943	940.1
Feb 27	943	944	944	944	944	944	944	944	943	943	943	943	942	942	941	941	942	942	942	942	942	942	942	942	941	944	942.7
Feb 28	942	942	942	942	942	941	941	941	941	941	941	941	941	941	941	941	941	941	942	942	942	942	942	942	941	942	941.5
Diurnal Maximum	964	965	965	965	965	965	965	965	965	964	964	964	963	963	962	962	962	963	963	963	964	964	964	964			
Diurnal Average	944	944	944	945	944	945	945	945	945	945	945	945	944	944	944	944	944	944	944	944	944	944	944	944			

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 - February 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

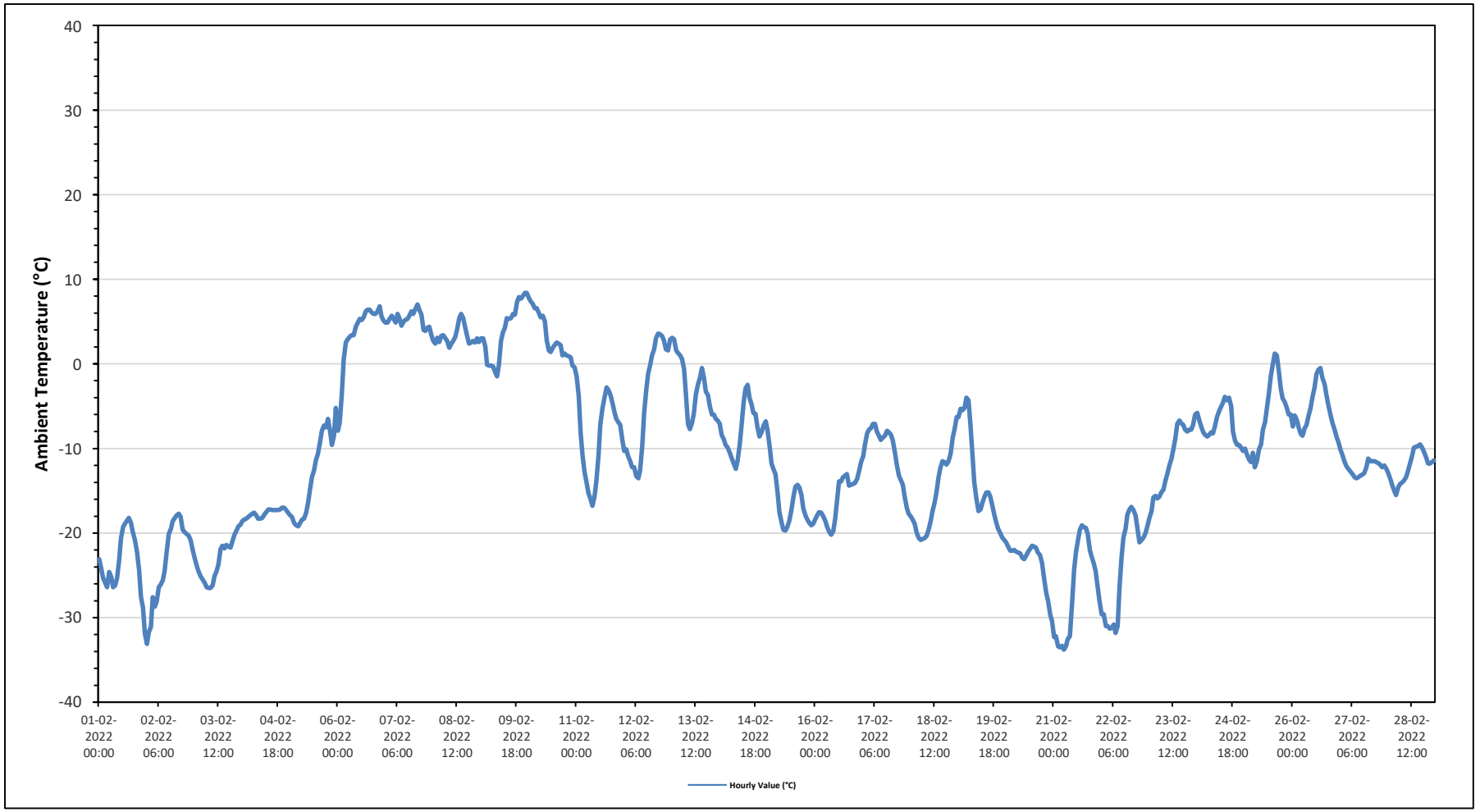
Maximum Hourly Value:	8.4	°C	on February 9 at hour 22	Hours in Service:	672
Maximum Daily Value:	5.2	°C	on February 7	Hours of Data:	672
Minimum Hourly Value:	-33.8	°C	on February 21 at hour 5	Hours of Missing Data:	0
Minimum Daily Value:	-26.6	°C	on February 21	Hours of Calibration:	0
Monthly Average:	-10.9	°C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	-23.1	-24.1	-25.3	-25.8	-26.4	-24.6	-25.2	-26.4	-26.2	-25.3	-23.2	-20.6	-19.3	-18.9	-18.5	-18.2	-18.8	-19.9	-20.8	-22.2	-24.4	-27.5	-28.9	-31.9	-31.9	-18.2	-23.6
Feb 2	-33.1	-31.7	-31.1	-27.6	-28.7	-28.1	-26.4	-26.1	-25.6	-24.5	-22.2	-20.1	-19.5	-18.6	-18.2	-17.9	-17.7	-18.1	-19.6	-19.9	-20.1	-20.3	-20.8	-22	-33.1	-17.7	-23.2
Feb 3	-22.9	-23.8	-24.5	-25.1	-25.5	-25.9	-26.4	-26.5	-26.5	-26.2	-25.1	-24.5	-23.7	-21.9	-21.5	-21.8	-21.4	-21.6	-21.7	-20.9	-20.2	-19.7	-19.2	-19	-26.5	-19.0	-23.1
Feb 4	-18.6	-18.4	-18.3	-18.1	-17.9	-17.7	-17.6	-17.9	-18.3	-18.3	-18.2	-17.8	-17.5	-17.2	-17.2	-17.3	-17.3	-17.3	-17.3	-17.2	-17	-17	-17.3	-17.6	-18.6	-17.0	-17.7
Feb 5	-17.9	-18.1	-18.8	-19.1	-19.2	-18.8	-18.4	-18.3	-17.6	-16.5	-14.8	-13.4	-12.6	-11.4	-10.6	-9.4	-7.9	-7.3	-7.5	-6.5	-7.9	-9.6	-8.5	-5.2	-19.2	-5.2	-13.1
Feb 6	-7.9	-6.9	-3.5	0.5	2.5	2.9	3.2	3.4	3.4	4.4	4.9	5.3	5.2	5.5	6.2	6.4	6.4	6.1	5.9	5.9	6.2	6.8	5.6	5.1	-7.9	6.8	3.5
Feb 7	4.9	4.9	5.3	5.7	5.3	4.9	5.9	5.3	4.5	5	5.2	5.3	5.7	6.2	5.9	6.5	7	6.3	5.8	4	3.9	4.3	4.4	3.4	3.4	7.0	**5.2**
Feb 8	2.7	2.4	3.1	2.6	3.3	3.4	3.1	2.7	1.9	2.4	2.7	3.2	4.1	5.4	5.9	5.4	4.4	3.3	2.4	2.5	2.7	2.5	3	2.6	1.9	5.9	3.2
Feb 9	3	3	2.1	-0.1	-0.2	-0.2	-0.3	-0.9	-1.5	-0.1	2.7	3.7	4.3	5.4	5.3	5.4	5.9	5.8	7.3	7.9	7.7	8	**8.4**	**8.4**	-1.5	**8.4**	3.8
Feb 10	7.8	7.4	7.1	6.6	6.6	6.1	5.5	5.7	5	2.8	1.6	1.4	1.9	2.2	2.5	2.4	2.2	1	1.2	1	0.9	0.8	-0.2	-0.4	-0.4	7.8	3.3
Feb 11	-1.5	-3.8	-8.1	-11	-12.8	-14.1	-15.3	-16	-16.8	-15.7	-13.9	-10.9	-7.2	-5.3	-4	-2.8	-3.1	-3.7	-4.6	-5.7	-6.5	-6.9	-7.2	-9	-16.8	-1.5	-8.6
Feb 12	-10.3	-10.1	-10.9	-11.5	-12.2	-12.2	-13.3	-13.5	-12.5	-9.6	-5.8	-3.1	-1.2	-0.1	1	1.7	3	3.6	3.5	3.3	2.8	1.7	1.6	2.9	-13.5	3.6	-4.2
Feb 13	3.1	2.9	1.6	1.3	1	0.6	-0.6	-3.6	-7.1	-7.7	-7	-5.9	-3.6	-2.4	-1.6	-0.5	-1.7	-3.3	-3.7	-5	-6	-6	-6.5	-6.7	-7.7	3.1	-2.9
Feb 14	-7.1	-8.4	-8.9	-9.6	-9.9	-10.5	-11.2	-11.8	-12.4	-11.4	-9.5	-7.2	-4.5	-2.9	-2.5	-4	-4.8	-5.8	-5.9	-7.4	-8.6	-8.1	-7.3	-6.8	-12.4	-2.5	-7.8
Feb 15	-7.9	-9.8	-11.8	-12.5	-13	-15.2	-17.5	-18.7	-19.6	-19.7	-19.3	-18.5	-17.2	-15.6	-14.5	-14.3	-14.6	-15.5	-17.1	-17.9	-18.4	-18.8	-19.1	-18.9	-19.7	-7.9	-16.1
Feb 16	-18.4	-17.9	-17.5	-17.6	-18	-18.6	-19.3	-19.9	-20.2	-19.8	-18.4	-16	-13.9	-13.9	-13.4	-13.2	-13	-14.4	-14.3	-14.2	-14.1	-13.6	-12.6	-11.6	-20.2	-11.6	-16.0
Feb 17	-10.9	-9.5	-8.2	-7.8	-7.6	-7.1	-7.1	-8	-8.5	-9	-8.7	-8.5	-7.9	-8.1	-8.4	-9.1	-10.5	-11.9	-13.2	-13.7	-14.3	-15.7	-17	-17.7	-17.7	-7.1	-10.4
Feb 18	-18	-18.4	-18.9	-20	-20.6	-20.8	-20.7	-20.6	-20.3	-19.6	-18.6	-17.4	-16.4	-15.2	-13.4	-12.3	-11.5	-11.6	-11.9	-11.5	-10.6	-8.7	-7.7	-6.3	-20.8	-6.3	-15.5
Feb 19	-6.3	-5.3	-5.5	-5.2	-4	-4.3	-7	-10.7	-14	-15.9	-17.4	-17.2	-16.4	-15.7	-15.2	-15.2	-15.7	-16.8	-17.8	-18.8	-19.5	-20	-20.5	-20.8	-20.8	-4.0	-13.6
Feb 20	-21.1	-21.6	-22.1	-22.1	-22	-22.2	-22.3	-22.4	-22.9	-23.1	-22.7	-22.2	-21.9	-21.5	-21.6	-21.7	-22.3	-22.6	-23.5	-25.4	-27.1	-28	-29.6	-30.4	-30.4	-21.1	-23.4
Feb 21	-32.3	-32.2	-33.4	-33.5	-33.3	**-33.8**	-33.4	-32.5	-32.2	-28.5	-24.4	-22.3	-20.8	-19.6	-19.1	-19.3	-19.4	-20.1	-22	-22.8	-23.6	-24.5	-26.4	-28.1	**-33.8**	-19.1	-26.6
Feb 22	-29.6	-29.6	-31	-31	-31.3	-31.2	-30.8	-31.8	-31	-26.4	-22.8	-20.5	-19.5	-17.8	-17.2	-16.9	-17.3	-17.9	-19.6	-21.1	-20.8	-20.5	-20	-19.1	-31.8	-16.9	-23.9
Feb 23	-18.2	-17.4	-15.8	-15.6	-15.9	-15.7	-15.2	-14.9	-13.8	-12.9	-12	-11.2	-10.1	-8.7	-7.1	-6.7	-7	-7.2	-7.8	-8	-7.8	-7.8	-7.2	-6	-18.2	-6.0	-11.3
Feb 24	-5.8	-6.7	-7.4	-8.1	-8.4	-8.6	-8.4	-8.1	-8.2	-7.3	-6.3	-5.6	-5.1	-4.6	-3.9	-4.3	-4	-5	-8	-9.1	-9.6	-9.6	-9.9	-10.3	-10.3	-3.9	-7.2
Feb 25	-10	-10.7	-11.3	-11.6	-10.5	-12.2	-11.5	-10.1	-9.5	-7.8	-6.9	-5.3	-3.4	-1.5	0	1.2	1	-0.7	-2.9	-4.1	-4.5	-5.1	-6	-6	-12.2	1.2	-6.2
Feb 26	-7.4	-6.1	-6.6	-7.5	-8.3	-8.5	-7.6	-7.2	-6.1	-5.3	-3.9	-2.9	-1.2	-0.7	-0.5	-1.7	-2.4	-3.7	-5	-6	-7	-7.8	-8.6	-9.3	-9.3	-0.5	-5.5
Feb 27	-10.1	-10.8	-11.5	-12.1	-12.4	-12.7	-13	-13.4	-13.5	-13.4	-13.2	-13.1	-12.9	-12.2	-11.2	-11.5	-11.5	-11.5	-11.6	-11.7	-11.9	-12.2	-12	-12.4	-13.5	-10.1	-12.2
Feb 28	-12.9	-13.6	-14.3	-15	-15.5	-14.6	-14.2	-14	-13.8	-13.4	-12.7	-11.8	-11	-9.9	-9.8	-9.7	-9.5	-9.9	-10.4	-11	-11.8	-11.8	-11.6	-11.4	-15.5	-9.5	-12.2
Diurnal Maximum	7.8	7.4	7.1	6.6	6.6	6.1	5.9	5.7	5.0	5.0	5.2	5.3	5.7	6.2	6.2	6.5	7.0	6.3	7.3	7.9	7.7	8.0	8.4	8.4			
Diurnal Average	-11.8	-11.9	-12.3	-12.5	-12.7	-12.8	-13.0	-13.4	-13.7	-13.0	-11.8	-10.6	-9.5	-8.5	-8.0	-7.8	-7.9	-8.6	-9.3	-9.8	-10.3	-10.5	-10.8	-10.9			

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 - February 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

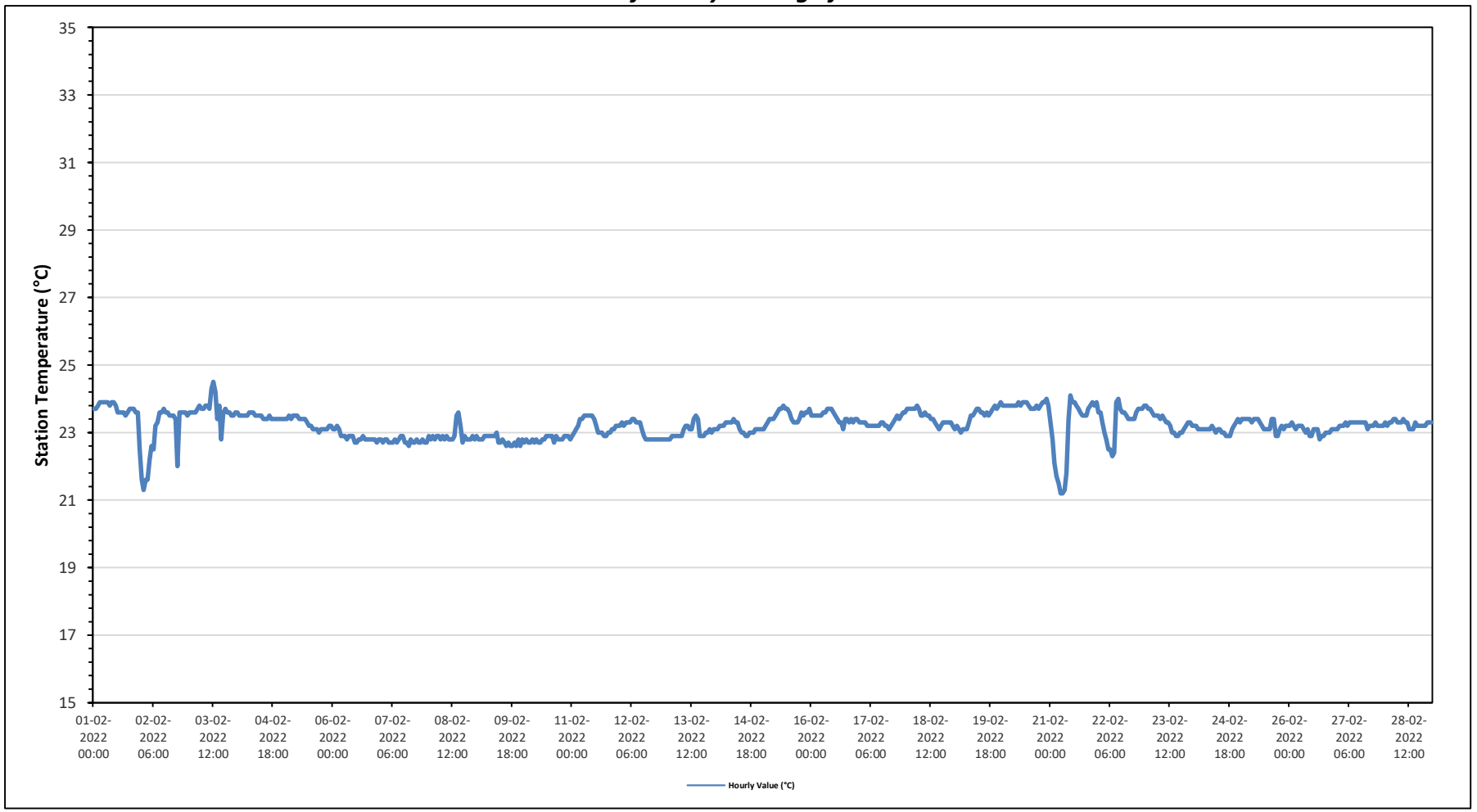
Maximum Hourly Value:	24.5	°C	on February 3 at hour 12	Hours in Service:	672
Maximum Daily Value:	23.8	°C	on February 20	Hours of Data:	672
Minimum Hourly Value:	21.2	°C	on February 21 at hour 5	Hours of Missing Data:	0
Minimum Daily Value:	22.7	°C	on February 7	Hours of Calibration:	0
Monthly Average:	23.2	°C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	23.7	23.7	23.8	23.9	23.9	23.9	23.9	23.9	23.8	23.9	23.9	23.8	23.6	23.6	23.6	23.6	23.5	23.6	23.7	23.7	23.7	23.6	23.6	22.5	22.5	23.9	23.7
Feb 2	21.6	21.3	21.6	21.6	22.2	22.6	22.5	23.2	23.3	23.6	23.6	23.7	23.6	23.6	23.5	23.5	23.5	23.4	22.0	23.6	23.6	23.6	23.6	23.5	21.3	23.7	23.0
Feb 3	23.6	23.6	23.6	23.6	23.7	23.8	23.7	23.7	23.8	23.8	23.7	24.3	**24.5**	24.2	23.4	23.8	22.8	23.6	23.7	23.6	23.6	23.5	23.5	23.6	22.8	**24.5**	23.7
Feb 4	23.6	23.5	23.5	23.5	23.5	23.5	23.6	23.6	23.6	23.5	23.5	23.5	23.5	23.4	23.4	23.4	23.5	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.6	23.5
Feb 5	23.4	23.4	23.5	23.4	23.5	23.5	23.5	23.4	23.4	23.4	23.4	23.3	23.2	23.2	23.1	23.1	23.1	23.0	23.1	23.1	23.1	23.1	23.2	23.2	23.0	23.5	23.3
Feb 6	23.1	23.1	23.2	23.1	22.9	22.9	22.9	22.8	22.9	22.9	22.9	22.7	22.7	22.8	22.8	22.9	22.8	22.8	22.8	22.8	22.8	22.8	22.7	22.8	22.7	23.2	22.9
Feb 7	22.8	22.7	22.8	22.8	22.7	22.7	22.7	22.8	22.7	22.8	22.9	22.9	22.7	22.7	22.6	22.8	22.7	22.7	22.8	22.7	22.7	22.8	22.7	22.7	22.6	22.9	22.7
Feb 8	22.9	22.8	22.9	22.8	22.9	22.9	22.8	22.9	22.8	22.9	22.8	22.8	22.8	22.9	23.5	23.6	23.2	22.7	22.9	22.8	22.8	22.8	22.9	22.8	22.7	23.6	22.9
Feb 9	22.9	22.8	22.8	22.8	22.9	22.9	22.9	22.9	22.9	22.9	23.0	22.7	22.7	22.8	22.7	22.6	22.7	22.6	22.6	22.7	22.6	22.8	22.6	22.8	22.6	23.0	22.8
Feb 10	22.7	22.8	22.7	22.7	22.8	22.7	22.8	22.7	22.7	22.8	22.8	22.9	22.9	22.9	22.9	22.7	22.9	22.8	22.8	22.8	22.9	22.9	22.9	22.8	22.7	22.9	22.8
Feb 11	22.9	23.0	23.1	23.2	23.4	23.4	23.5	23.5	23.5	23.5	23.5	23.4	23.2	23.0	23.0	23.0	22.9	22.9	23.0	23.0	23.1	23.1	23.2	23.2	22.9	23.5	23.2
Feb 12	23.2	23.3	23.2	23.3	23.3	23.3	23.4	23.4	23.3	23.3	23.3	23.1	22.9	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	22.8	23.4	23.0
Feb 13	22.8	22.8	22.9	22.9	22.9	22.9	22.9	22.9	23.1	23.2	23.2	23.1	23.1	23.4	23.5	23.4	22.9	22.9	22.9	23.0	23.0	23.1	23.0	23.1	22.8	23.5	23.0
Feb 14	23.1	23.1	23.2	23.2	23.2	23.3	23.3	23.3	23.3	23.4	23.3	23.3	23.1	23.0	23.0	22.9	22.9	23.0	23.0	23.0	23.1	23.1	23.1	23.1	22.9	23.4	23.1
Feb 15	23.1	23.2	23.3	23.4	23.4	23.4	23.5	23.6	23.7	23.7	23.8	23.7	23.7	23.6	23.4	23.3	23.3	23.3	23.4	23.6	23.5	23.6	23.6	23.7	23.1	23.8	23.5
Feb 16	23.5	23.5	23.5	23.5	23.5	23.5	23.6	23.6	23.7	23.7	23.7	23.6	23.5	23.4	23.3	23.3	23.1	23.4	23.4	23.3	23.4	23.3	23.4	23.4	23.1	23.7	23.5
Feb 17	23.3	23.3	23.3	23.3	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.3	23.2	23.2	23.1	23.2	23.3	23.4	23.5	23.4	23.5	23.6	23.6	23.1	23.6	23.3
Feb 18	23.7	23.7	23.7	23.7	23.7	23.8	23.7	23.5	23.5	23.6	23.5	23.5	23.4	23.4	23.3	23.2	23.1	23.2	23.3	23.3	23.3	23.3	23.3	23.2	23.1	23.8	23.5
Feb 19	23.1	23.2	23.1	23.0	23.1	23.1	23.1	23.3	23.5	23.5	23.6	23.7	23.7	23.6	23.6	23.5	23.6	23.5	23.6	23.7	23.8	23.7	23.8	23.9	23.0	23.9	23.5
Feb 20	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.8	23.9	23.8	23.9	23.9	23.9	23.8	23.7	23.7	23.7	23.8	23.7	23.8	23.9	23.9	24.0	23.8	23.7	24.0	**23.8**
Feb 21	23.3	22.8	22.1	21.7	21.5	**21.2**	**21.2**	21.3	21.8	23.4	24.1	23.9	23.9	23.8	23.7	23.6	23.5	23.5	23.5	23.7	23.8	23.9	23.8	23.9	**21.2**	24.1	23.0
Feb 22	23.6	23.6	23.3	23.0	22.8	22.5	22.5	22.3	22.4	23.9	24.0	23.7	23.6	23.6	23.5	23.4	23.4	23.4	23.4	23.6	23.7	23.7	23.7	23.8	22.3	24.0	23.4
Feb 23	23.8	23.7	23.7	23.6	23.5	23.5	23.5	23.4	23.5	23.4	23.3	23.3	23.2	23.0	23.0	22.9	22.9	23.0	23.0	23.1	23.2	23.3	23.3	23.2	22.9	23.8	23.3
Feb 24	23.2	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.2	23.1	23.0	23.1	23.1	23.0	23.0	22.9	22.9	22.9	23.1	23.2	23.3	23.4	23.3	22.9	23.4	23.1
Feb 25	23.4	23.4	23.4	23.4	23.4	23.3	23.4	23.4	23.4	23.3	23.2	23.1	23.1	23.1	23.1	23.4	23.4	22.9	22.9	23.1	23.2	23.1	23.2	23.2	22.9	23.4	23.2
Feb 26	23.2	23.3	23.2	23.1	23.2	23.2	23.2	23.1	23.0	23.1	22.9	22.9	23.1	23.1	23.1	22.8	22.9	22.9	23.0	23.0	23.0	23.1	23.1	23.1	22.8	23.3	23.1
Feb 27	23.1	23.2	23.2	23.2	23.3	23.2	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.1	23.2	23.2	23.2	23.3	23.2	23.2	23.2	23.2	23.1	23.3	23.2
Feb 28	23.3	23.2	23.3	23.3	23.4	23.4	23.3	23.3	23.3	23.4	23.3	23.3	23.1	23.1	23.1	23.3	23.2	23.2	23.2	23.2	23.2	23.3	23.3	23.3	23.1	23.4	23.3
Diurnal Maximum	23.8	23.8	23.8	23.9	23.9	23.9	23.9	23.9	23.9	23.9	24.1	24.3	24.5	24.2	23.7	23.8	23.7	23.8	23.7	23.8	23.9	23.9	24.0	23.9			
Diurnal Average	23.2	23.2	23.2	23.1	23.2	23.2	23.2	23.2	23.2	23.4	23.4	23.3	23.3	23.3	23.2	23.2	23.1	23.1	23.1	23.2	23.3	23.3	23.3	23.2			

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 - 986c Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2022

Summary of Hourly Averages

PRECIPITATION in mm

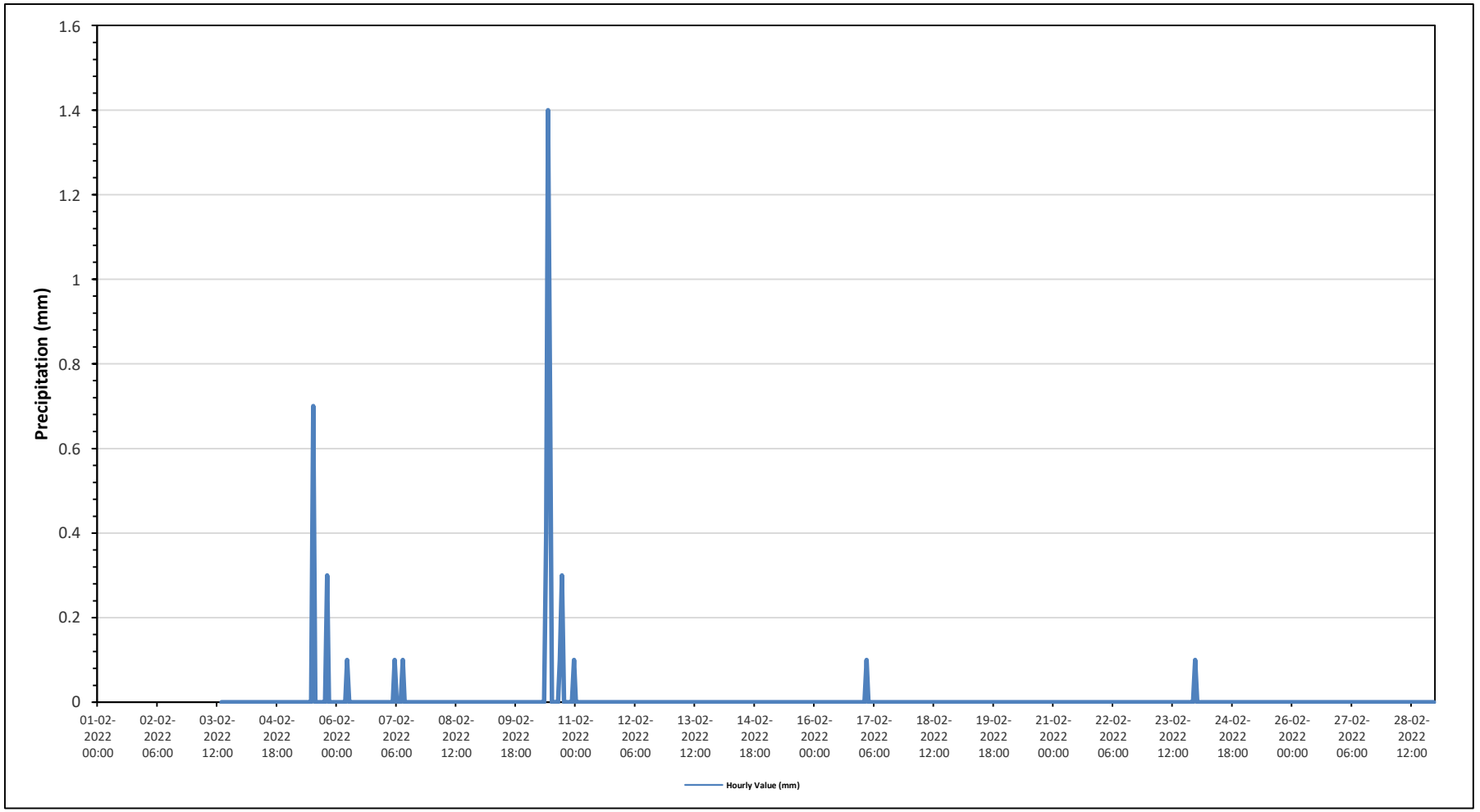
Maximum Hourly Value:	1.4	mm	on February 10 at hour 10	Hours in Service:	672
Maximum Daily Value:	3.0	mm	on February 10	Hours of Data:	610
Minimum Hourly Value:	0.0	mm	on February 3 at hour 14	Hours of Missing Data:	62
Minimum Daily Value:	0.0	mm	on February 4	Hours of Calibration:	0
Monthly Total:	4.5	mm		Operational Uptime:	90.8

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
Feb 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Feb 2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Feb 3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0	0	0	0	0	0	0	0	0	0	0.0	0.0	-
Feb 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 5	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0.3	0	0	0	0	0.0	0.7	1.0
Feb 6	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	0.1	0.1
Feb 7	0	0	0	0	0	0.1	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.2
Feb 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 10	0	0	0	0	0	0	0	0	0	0.4	**1.4**	0.7	0	0	0	0	0.1	0.3	0	0	0	0	0	0.1	0.0	**1.4**	**3.0**
Feb 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 17	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	0.1	0.1
Feb 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	0.1	0.1
Feb 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.4	1.4	0.7	0.7	0.0	0.0	0.0	0.1	0.3	0.0	0.3	0.0	0.0	0.0	0.1			
Diurnal Average	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

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

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

Timeseries Chart of Hourly Average for Precipitation - 986c Station



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PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

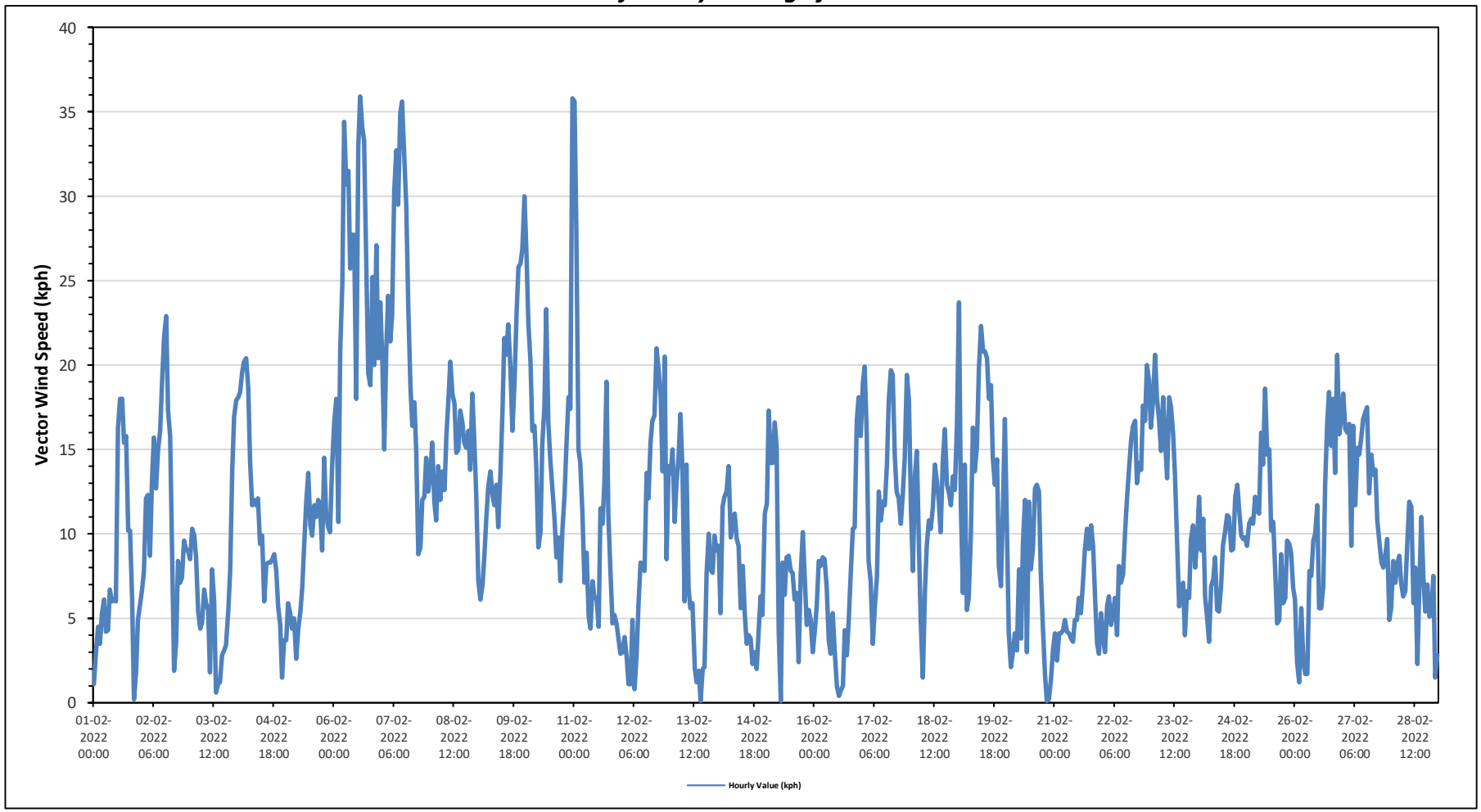
Maximum Hourly Value:	35.9	kph	on February 6 at hour 13	Hours in Service:	672
Maximum Daily Value:	22.8	kph	on February 6	Hours of Data:	672
Minimum Hourly Value:	0.1	kph	on February 13 at hour 15	Hours of Missing Data:	0
Minimum Daily Value:	0.9	kph	on February 16	Hours of Calibration:	0
Monthly Average:	4.3	kph		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	1.1	3.0	4.5	3.5	5.3	6.1	4.2	4.3	6.7	6.0	6.1	6.0	16.3	18.0	18.0	15.4	15.8	10.2	10.2	6.1	0.2	1.8	4.9	5.8	0.2	18.0	5.8
Feb 2	6.7	7.8	12.1	12.3	8.7	13.3	15.7	12.7	15.0	16.1	18.9	21.7	22.9	17.3	15.8	9.3	1.9	3.6	8.4	7.1	7.4	9.6	9.1	9.0	1.9	22.9	6.0
Feb 3	8.5	10.3	9.9	8.6	5.4	4.4	4.8	6.7	5.9	5.5	1.8	7.9	6.0	0.6	1.1	1.2	2.8	3.1	3.4	5.5	7.8	13.8	16.9	17.9	0.6	17.9	1.4
Feb 4	18.1	18.4	19.6	20.2	20.4	18.7	14.3	11.7	12.0	11.7	12.1	9.4	9.9	6.0	8.2	8.3	8.3	8.5	8.8	7.8	5.7	4.6	1.5	3.7	1.5	20.4	9.6
Feb 5	3.7	5.9	5.3	4.4	5.0	2.6	4.4	5.4	6.8	9.5	11.8	13.6	10.5	9.9	11.7	11.0	12.0	11.6	9.0	14.5	11.2	10.4	10.1	14.0	2.6	14.5	6.4
Feb 6	16.6	18.0	10.7	20.9	24.8	34.4	30.7	31.5	25.7	27.7	27.7	18.0	33.0	**35.9**	34.1	33.3	26.3	19.5	18.8	25.2	20.0	27.1	20.4	23.7	10.7	**35.9**	**22.8**
Feb 7	20.0	15.0	21.1	24.1	21.4	23.0	30.3	32.7	29.5	34.9	35.6	32.5	29.4	23.2	18.7	16.4	17.8	14.9	8.8	9.2	12.0	12.2	14.5	12.5	8.8	35.6	19.1
Feb 8	13.6	15.4	11.9	10.8	14.0	12.0	13.7	12.6	15.8	18.0	20.2	18.3	17.7	14.8	15.0	17.3	16.6	15.4	15.1	16.1	13.8	18.3	15.7	12.3	10.8	20.2	14.5
Feb 9	7.2	6.1	7.0	8.7	11.1	12.8	13.7	12.3	11.7	12.9	10.4	13.5	17.2	21.6	20.6	22.4	20.0	16.1	19.0	23.1	25.8	26.0	26.9	30.0	6.1	30.0	15.4
Feb 10	26.4	22.4	20.2	16.1	16.4	14.0	9.2	10.1	15.3	17.5	23.3	16.6	14.3	12.6	10.8	8.6	9.8	7.2	10.3	12.3	15.2	18.1	17.4	35.8	7.2	35.8	13.8
Feb 11	35.6	27.9	15.0	14.2	11.3	7.1	8.9	5.1	4.4	7.2	6.2	6.2	4.5	11.5	10.6	13.1	19.0	11.1	7.8	4.7	5.2	4.7	3.9	2.9	2.9	35.6	5.0
Feb 12	3.0	3.9	2.7	1.1	1.1	4.9	0.8	2.9	5.8	8.3	8.1	7.8	13.6	12.1	15.4	16.7	17.0	21.0	19.7	18.0	13.7	20.5	8.5	14.0	0.8	21.0	5.8
Feb 13	13.6	15.0	10.7	13.0	14.5	17.1	13.7	6.0	14.1	6.8	5.6	5.9	2.0	1.2	1.9	**0.1**	2.0	2.1	7.7	10.0	7.9	7.7	9.9	9.0	**0.1**	17.1	3.0
Feb 14	9.3	5.3	11.6	12.2	12.5	14.0	9.8	10.6	11.2	9.7	9.3	5.6	8.1	5.4	3.5	4.0	3.8	2.3	3.0	2.0	4.1	6.3	5.2	11.2	2.0	14.0	4.0
Feb 15	11.8	17.3	14.2	14.2	16.6	15.2	4.3	**0.1**	8.3	6.4	8.6	8.7	7.8	7.7	6.1	6.5	2.4	7.6	10.1	7.2	4.6	5.5	4.9	3.0	**0.1**	17.3	4.0
Feb 16	4.3	5.7	8.4	8.1	8.6	8.5	6.9	3.7	2.9	5.3	3.0	1.0	0.4	0.7	1.0	4.3	2.8	4.8	7.7	10.3	10.4	16.7	18.1	15.8	0.4	18.1	**0.9**
Feb 17	18.9	19.9	15.9	8.4	7.2	3.5	5.7	7.5	12.5	10.8	11.9	11.7	14.1	17.9	19.7	19.4	14.6	12.5	12.1	10.6	12.2	14.5	19.4	17.9	3.5	19.9	7.6
Feb 18	11.3	7.8	13.5	14.9	9.4	4.8	1.5	6.6	9.3	10.8	10.3	11.5	14.1	13.2	11.9	10.1	14.3	16.2	12.9	12.4	11.7	13.4	12.6	16.3	1.5	16.3	5.5
Feb 19	23.7	11.8	6.5	14.1	5.5	6.2	9.8	16.3	13.7	15.1	19.8	22.3	20.8	20.8	20.4	18.0	18.8	14.5	12.9	14.4	8.1	6.9	11.2	16.8	5.5	23.7	8.1
Feb 20	10.1	4.1	2.1	2.9	4.1	3.1	7.9	3.8	9.5	12.0	3.0	11.9	7.9	9.1	12.7	12.9	12.5	7.7	4.5	1.7	**0.1**	0.2	1.4	3.2	**0.1**	12.9	2.9
Feb 21	4.1	2.5	4.1	4.1	4.3	4.9	4.2	4.1	3.8	3.6	4.9	4.9	6.2	5.3	7.1	9.0	10.3	9.1	10.5	9.2	6.3	3.5	2.9	5.3	2.5	10.5	5.3
Feb 22	4.0	3.0	5.7	6.3	4.6	5.2	6.2	4.0	8.1	7.1	7.6	10.2	12.1	13.9	15.6	16.4	16.7	13.0	14.2	13.8	17.6	16.7	20.0	19.1	3.0	20.0	10.4
Feb 23	16.3	17.8	20.6	18.1	16.8	14.9	18.1	15.4	13.3	18.1	17.5	15.9	13.5	9.6	5.7	6.8	7.1	4.0	6.6	6.2	9.7	10.5	8.0	9.7	4.0	20.6	11.6
Feb 24	12.2	9.0	10.9	6.3	5.0	3.6	6.9	7.3	8.6	5.5	5.4	6.9	9.3	10.1	11.1	11.0	9.0	9.1	12.2	12.9	11.4	9.9	9.7	9.8	3.6	12.9	5.6
Feb 25	9.3	10.6	10.9	10.6	12.2	11.4	11.2	16.0	14.1	18.6	14.7	15.0	10.2	10.7	7.6	4.7	4.9	8.8	5.9	6.2	9.6	9.4	8.9	6.8	4.7	18.6	9.1
Feb 26	6.1	2.4	1.2	5.6	2.4	1.7	1.7	7.8	7.5	9.6	10.0	11.7	5.6	5.6	6.9	12.9	16.6	18.4	15.2	18.0	13.6	20.6	15.9	17.0	1.2	20.6	8.0
Feb 27	18.3	16.2	16.0	16.5	9.3	16.4	11.7	15.1	14.7	15.7	16.8	17.2	17.5	12.4	14.7	13.5	13.8	10.8	9.5	8.3	8.0	8.8	9.7	4.9	4.9	18.3	10.2
Feb 28	5.6	8.4	7.1	8.2	8.7	7.1	6.3	6.6	9.3	11.9	11.6	5.9	8.0	2.3	7.2	11.0	7.4	5.4	7.0	5.1	5.2	7.5	1.5	2.8	1.5	11.9	3.9
Diurnal Maximum	36	28	21	24	25	34	31	33	30	35	36	33	33	36	34	33	26	21	20	25	26	27	27	36			
Diurnal Average	12.1	11.1	10.7	11.0	10.2	10.4	9.9	10.0	11.3	12.2	12.2	12.1	12.6	11.8	11.9	11.9	11.6	10.3	10.4	10.6	9.9	11.6	11.0	12.5			

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.

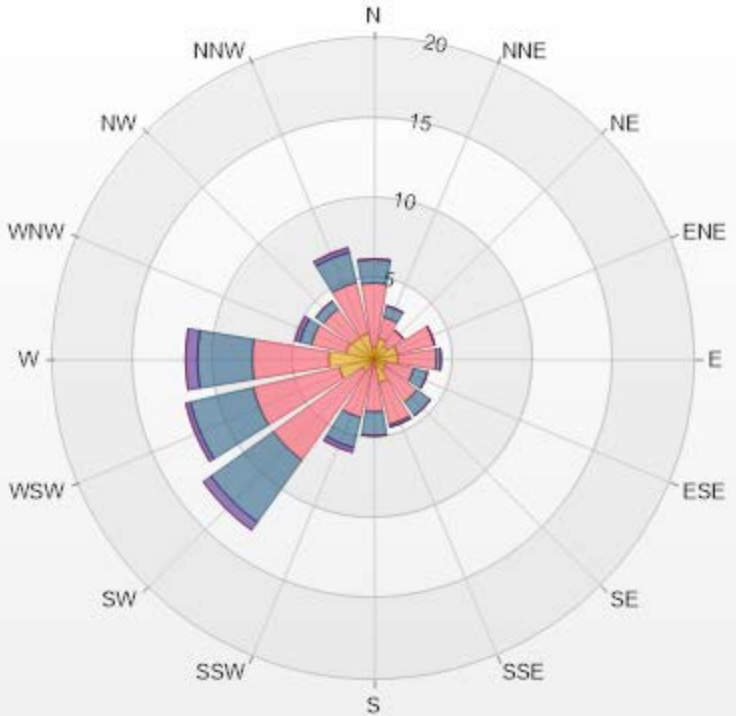
Timeseries Chart of Hourly Average for VWS - 986c Station



Wind: PRAMP 986c Monitor: WDS [KPH] Monthly: 02-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 3.72% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.74	4.02	1.49	0	0	6.25
NNE	1.34	1.34	0.74	0	0	3.42
NE	1.04	1.19	0	0	0	2.23
ENE	1.49	2.38	0	0	0	3.87
E	1.49	2.38	0.3	0	0	4.17
ESE	0.74	1.79	0.89	0	0	3.42
SE	0.89	2.38	1.04	0	0	4.31
SSE	1.49	2.68	0.15	0	0	4.32
S	0.45	2.83	1.49	0	0	4.77
SSW	0	3.72	1.93	0.3	0	5.95
SW	0.89	6.85	4.76	0.6	0	13.1
WSW	2.23	5.51	4.02	0.3	0	12.06
W	2.83	4.76	3.42	0.74	0	11.75
WNW	1.79	2.23	0.74	0.3	0	5.06
NW	1.64	2.23	0.6	0	0	4.47
NNW	1.64	3.27	1.93	0.3	0	7.14
Summary	20.69	49.56	23.5	2.54	0	96.29

PRAMP 986c 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 3.72% Calm Wind Avg Speed: 0.98(KPH)



% Icon Classes (KPH)	21 1.8-6.0	50 6.0-15.0	24 15.0-29.0	3 29.0-39.0	0 >39.0

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PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

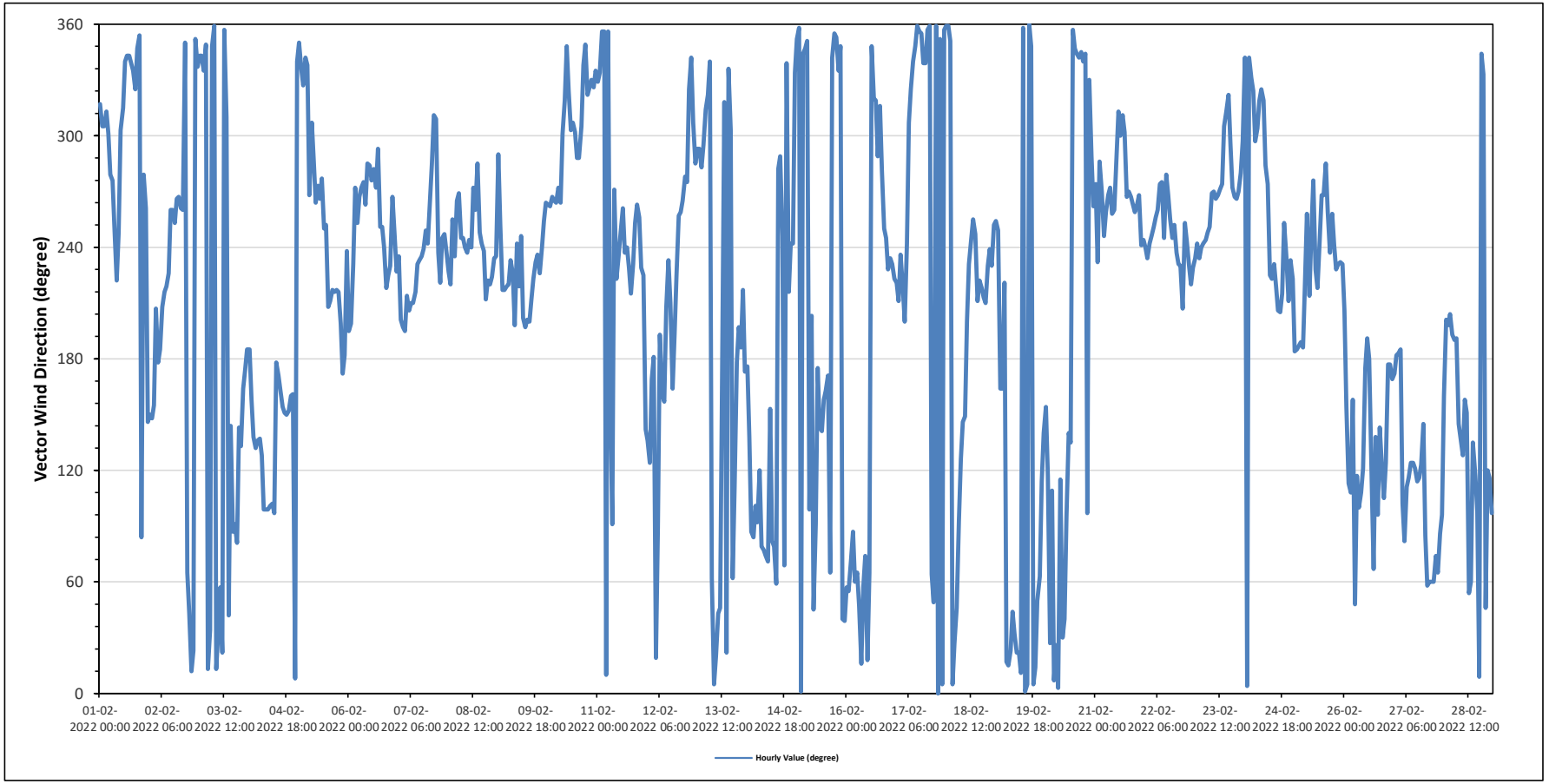
Monthly Average:	250 (WSW) degree	Hours in Service:	672
		Hours of Data:	672
		Hours of Missing Data:	0
		Hours of Calibration:	0
		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																						Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Feb 1	NW	WNW	WNW	NW	WNW	W	W	WSW	SW	WSW	WNW	NW	NNW	NNW	NNW	NNW	NNW	NW	NNW	N	E	W	W	SE	321	NW
Feb 2	SSE	SE	SSE	SSW	S	S	SSW	SW	SW	SW	WSW	WSW	WSW	W	W	W	WSW	N	ENE	NE	NNE	NNE	N	NNW	239	WSW
Feb 3	NNW	NNW	NNW	NNW	NNE	NE	NNW	N	NNE	NNE	ENE	NNE	N	NW	NE	SE	E	E	E	SE	SE	SSE	S	S	44	NE
Feb 4	S	SSE	SE	SE	SE	SE	SE	E	E	E	E	E	E	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	N	NNW	136	SE
Feb 5	N	NNW	NW	NNW	NNW	W	NW	WNW	W	W	W	W	WSW	WSW	SSW	SSW	SW	SW	SW	SW	SSW	S	S	SW	241	WSW
Feb 6	SSW	SSW	SW	W	WSW	W	W	W	W	WNW	WNW	W	W	W	WNW	WSW	WSW	WSW	SW	SW	SW	W	WSW	SW	258	WSW
Feb 7	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	W	WNW	NW	NW	SW	SW	WSW	WSW	SW	230	SW
Feb 8	SW	SW	WSW	SW	W	W	WSW	WSW	WSW	SW	WSW	WSW	W	WSW	WNW	WSW	WSW	SW	SSW	SW	SW	SW	SW	SW	242	WSW
Feb 9	WNW	WSW	SW	SW	SW	SW	SW	SW	SSW	WSW	SW	WSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	WSW	W	227	SW
Feb 10	W	W	W	W	W	W	W	WNW	NW	NNW	NW	WNW	NW	WNW	WNW	WNW	WNW	NNW	NNW	NW	NW	NNW	NW	NNW	303	WNW
Feb 11	NNW	NNW	N	N	N	N	SSE	E	W	SW	SW	WSW	W	SW	WSW	SW	SSW	SW	WSW	W	WSW	SW	SW	SE	283	W
Feb 12	SE	ESE	SSE	S	NNE	E	S	SSE	SSE	SSW	SW	SSW	SSE	S	SW	WSW	WSW	W	W	W	NW	NNW	NW	WNW	255	WSW
Feb 13	WNW	WNW	W	WNW	NW	NW	NNW	ENE	N	NNE	NE	NE	SSE	NW	NNE	NNW	WNW	ENE	ESE	S	SSW	S	SW	S	308	NW
Feb 14	S	SE	E	E	E	E	ESE	ENE	ENE	ENE	ENE	SSE	E	ENE	ENE	W	WNW	WSW	ENE	NNW	SW	WSW	WSW	NNW	93	E
Feb 15	N	N	N	NNW	NNW	N	E	SSW	NE	E	S	SE	SE	SSE	SSE	S	ENE	NNW	N	N	NNW	NNW	NE	NE	13	NNE
Feb 16	ENE	NE	ENE	E	ENE	ENE	NE	NNE	ENE	ENE	NNE	ENE	NNW	NW	NW	WNW	NW	W	WSW	WSW	SW	SW	SW	SW	244	WSW
Feb 17	SW	SSW	SW	SW	SSW	WSW	NW	NW	NNW	NNW	N	N	N	NNW	NNW	N	N	ENE	NE	N	N	N	N	N	341	NNW
Feb 18	N	N	N	N	NNE	NE	E	SE	SE	SSE	SSW	SW	WSW	WSW	WSW	SSW	SW	SW	SSW	SSW	SW	WSW	SW	WSW	235	SW
Feb 19	WSW	WSW	SSE	SSE	SW	NNE	NNE	NNE	NE	NNE	NNE	NNE	NNE	N	N	N	N	NNW	N	NNE	NE	ENE	ESE	SE	15	NNE
Feb 20	SSE	ESE	NNE	ESE	N	NNE	N	ESE	NNE	NE	E	SE	SE	N	NNW	NNW	NNW	NNW	NNW	NNW	E	NNW	WNW	W	23	NNE
Feb 21	W	SW	WNW	W	WSW	WSW	W	W	WSW	WSW	WNW	NW	WNW	NW	WNW	W	W	W	W	WSW	W	W	WSW	WSW	271	W
Feb 22	WSW	SW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	W	W	WSW	WSW	WSW	SW	SW	SW	SSW	WSW	WSW	SW	SW	SW	242	WSW
Feb 23	SW	WSW	SW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	WNW	NW	NW	WNW	W	W	W	W	W	WNW	261	W
Feb 24	NNW	N	NNW	NNW	NW	WNW	WNW	NW	NW	NW	WNW	W	SW	SW	SW	SW	SSW	SSW	SSW	WSW	SW	SSW	SW	SW	260	WSW
Feb 25	S	S	S	S	S	SW	WSW	SSW	WSW	W	SW	SW	WSW	W	W	WNW	WSW	SW	WSW	WSW	SW	SW	SW	SW	230	SW
Feb 26	SSW	SSE	ESE	ESE	SSE	NE	ESE	E	ESE	ESE	S	S	S	ESE	ENE	SE	E	SE	ESE	ESE	ESE	S	S	SSE	140	SE
Feb 27	S	S	S	S	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	E	ENE	ENE	ENE	ENE	ENE	ENE	E	E	116	ESE
Feb 28	SSE	SSW	SSW	SSW	S	S	S	SE	SE	SE	SSE	SSE	NE	ENE	SE	ESE	E	N	NNW	NNW	NE	ESE	ESE	E	142	SE

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



peace river area monitoring program
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PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	35.9	kph	on February 6 at hour 13	Hours in Service:	672
Maximum Daily Value:	22.8	kph	on February 6	Hours of Data:	672
Minimum Hourly Value:	0.1	kph	on February 13 at hour 15	Hours of Missing Data:	0
Minimum Daily Value:	0.9	kph	on February 16	Hours of Calibration:	0
Monthly Average:	4.3	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 250 (WSW) degree

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	1.1	3.0	4.5	3.5	5.3	6.1	4.2	4.3	6.7	6.0	6.1	6.0	16.3	18.0	18.0	15.4	15.8	10.2	10.2	6.1	0.2	1.8	4.9	5.8	0.2	18.0	5.8
	NW	WNW	WNW	NW	WNW	W	W	WSW	SW	WSW	WNW	NW	NNW	NNW	NNW	NNW	NNW	NW	NNW	N	E	W	W	SE			
Feb 2	6.7	7.8	12.1	12.3	8.7	13.3	15.7	12.7	15.0	16.1	18.9	21.7	22.9	17.3	15.8	9.3	1.9	3.6	8.4	7.1	7.4	9.6	9.1	9.0	1.9	22.9	6.0
	SSE	SE	SSE	SSW	S	S	SSW	SW	SW	SW	WSW	WSW	WSW	W	W	W	WSW	N	ENE	NE	NNE	NNE	N	NNW			
Feb 3	8.5	10.3	9.9	8.6	5.4	4.4	4.8	6.7	5.9	5.5	1.8	7.9	6.0	0.6	1.1	1.2	2.8	3.1	3.4	5.5	7.8	13.8	16.9	17.9	0.6	17.9	1.4
	NNW	NNW	NNW	NNW	NNE	NE	NNW	N	NNE	NNE	ENE	NNE	N	NW	NE	SE	E	E	E	SE	SE	SSE	SSE	S			
Feb 4	18.1	18.4	19.6	20.2	20.4	18.7	14.3	11.7	12.0	11.7	12.1	9.4	9.9	6.0	8.2	8.3	8.3	8.5	8.8	7.8	5.7	4.6	1.5	3.7	1.5	20.4	9.6
	S	SSE	SE	SE	SE	SE	SE	E	E	E	E	E	E	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	N	NNW			
Feb 5	3.7	5.9	5.3	4.4	5.0	2.6	4.4	5.4	6.8	9.5	11.8	13.6	10.5	9.9	11.7	11.0	12.0	11.6	9.0	14.5	11.2	10.4	10.1	14.0	2.6	14.5	6.4
	N	NNW	NW	NNW	NNW	W	NW	WNW	W	W	W	W	WSW	WSW	SSW	SSW	SW	SW	SW	SW	SSW	S	S	SW			
Feb 6	16.6	18.0	10.7	20.9	24.8	34.4	30.7	31.5	25.7	27.7	27.7	18.0	33.0	**35.9**	34.1	33.3	26.3	19.5	18.8	25.2	20.0	27.1	20.4	23.7	10.7	**35.9**	**22.8**
	SSW	SSW	SW	W	WSW	W	W	W	W	WNW	WNW	W	W	W	WNW	WSW	WSW	WSW	SW	SW	SW	W	WSW	SW			
Feb 7	20.0	15.0	21.1	24.1	21.4	23.0	30.3	32.7	29.5	34.9	35.6	32.5	29.4	23.2	18.7	16.4	17.8	14.9	8.8	9.2	12.0	12.2	14.5	12.5	8.8	35.6	19.1
	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	W	WNW	NW	NW	SW	SW	WSW	WSW	SW			
Feb 8	13.6	15.4	11.9	10.8	14.0	12.0	13.7	12.6	15.8	18.0	20.2	18.3	17.7	14.8	15.0	17.3	16.6	15.4	15.1	16.1	13.8	18.3	15.7	12.3	10.8	20.2	14.5
	SW	SW	WSW	SW	W	W	WSW	WSW	WSW	SW	WSW	WSW	W	WSW	WNW	WSW	WSW	SW	SSW	SW	SW	SW	SW	SW			
Feb 9	7.2	6.1	7.0	8.7	11.1	12.8	13.7	12.3	11.7	12.9	10.4	13.5	17.2	21.6	20.6	22.4	20.0	16.1	19.0	23.1	25.8	26.0	26.9	30.0	6.1	30.0	15.4
	WNW	WSW	SW	SW	SW	SW	SW	SW	SSW	WSW	SW	WSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	WSW	W			
Feb 10	26.4	22.4	20.2	16.1	16.4	14.0	9.2	10.1	15.3	17.5	23.3	16.6	14.3	12.6	10.8	8.6	9.8	7.2	10.3	12.3	15.2	18.1	17.4	35.8	7.2	35.8	13.8
	W	W	W	W	W	W	W	WNW	NW	NNW	NW	WNW	NW	WNW	WNW	WNW	WNW	NNW	NNW	NW	NW	NNW	NW	NNW			
Feb 11	35.6	27.9	15.0	14.2	11.3	7.1	8.9	5.1	4.4	7.2	6.2	6.2	4.5	11.5	10.6	13.1	19.0	11.1	7.8	4.7	5.2	4.7	3.9	2.9	2.9	35.6	5.0
	NNW	NNW	N	N	N	N	SSE	E	W	SW	SW	WSW	W	SW	WSW	SW	SSW	SW	WSW	W	WSW	SW	SW	SE			
Feb 12	3.0	3.9	2.7	1.1	1.1	4.9	0.8	2.9	5.8	8.3	8.1	7.8	13.6	12.1	15.4	16.7	17.0	21.0	19.7	18.0	13.7	20.5	8.5	14.0	0.8	21.0	5.8
	SE	ESE	SSE	S	NNE	E	S	SSE	SSE	SSW	SW	SSW	SSE	S	SW	WSW	WSW	W	W	W	NW	NNW	NW	WNW			
Feb 13	13.6	15.0	10.7	13.0	14.5	17.1	13.7	6.0	14.1	6.8	5.6	5.9	2.0	1.2	1.9	**0.1**	2.0	2.1	7.7	10.0	7.9	7.7	9.9	9.0	**0.1**	17.1	3.0
	WNW	WNW	W	WNW	NW	NW	NNW	ENE	N	NNE	NE	NE	SSE	NW	NNE	NNW	WNW	ENE	ESE	S	SSW	S	SW	S			
Feb 14	9.3	5.3	11.6	12.2	12.5	14.0	9.8	10.6	11.2	9.7	9.3	5.6	8.1	5.4	3.5	4.0	3.8	2.3	3.0	2.0	4.1	6.3	5.2	11.2	2.0	14.0	4.0
	S	SE	E	E	E	E	ESE	ENE	ENE	ENE	ENE	SSE	E	ENE	ENE	W	WNW	WSW	ENE	NNW	SW	WSW	WSW	NNW			
Feb 15	11.8	17.3	14.2	14.2	16.6	15.2	4.3	**0.1**	8.3	6.4	8.6	8.7	7.8	7.7	6.1	6.5	2.4	7.6	10.1	7.2	4.6	5.5	4.9	3.0	**0.1**	17.3	4.0
	N	N	N	NNW	NNW	N	E	SSW	NE	E	S	SE	SE	SSE	SSE	S	ENE	NNW	N	N	NNW	NNW	NE	NE			
Feb 16	4.3	5.7	8.4	8.1	8.6	8.5	6.9	3.7	2.9	5.3	3.0	1.0	0.4	0.7	1.0	4.3	2.8	4.8	7.7	10.3	10.4	16.7	18.1	15.8	0.4	18.1	**0.9**
	ENE	NE	ENE	E	ENE	ENE	NE	NNE	ENE	ENE	NNE	ENE	NNW	NW	NW	WNW	NW	W	WSW	WSW	SW	SW	SW	SW			
Feb 17	18.9	19.9	15.9	8.4	7.2	3.5	5.7	7.5	12.5	10.8	11.9	11.7	14.1	17.9	19.7	19.4	14.6	12.5	12.1	10.6	12.2	14.5	19.4	17.9	3.5	19.9	7.6
	SW	SSW	SW	SW	SSW	WSW	NW	NW	NNW	NNW	N	N	N	NNW	NNW	N	N	ENE	NE	N	N	N	N	N			
Feb 18	11.3	7.8	13.5	14.9	9.4	4.8	1.5	6.6	9.3	10.8	10.3	11.5	14.1	13.2	11.9	10.1	14.3	16.2	12.9	12.4	11.7	13.4	12.6	16.3	1.5	16.3	5.5
	N	N	N	N	NNE	NE	E	SE	SE	SSE	SSW	SW	WSW	WSW	WSW	SSW	SW	SW	SSW	SSW	SW	WSW	SW	WSW			
Feb 19	23.7	11.8	6.5	14.1	5.5	6.2	9.8	16.3	13.7	15.1	19.8	22.3	20.8	20.8	20.4	18.0	18.8	14.5	12.9	14.4	8.1	6.9	11.2	16.8	5.5	23.7	8.1
	WSW	WSW	SSE	SSE	SW	NNE	NNE	NNE	NE	NNE	NNE	NNE	NNE	N	N	N	N	NNW	N	NNE	NE	ENE	ESE	SE			
Feb 20	10.1	4.1	2.1	2.9	4.1	3.1	7.9	3.8	9.5	12.0	3.0	11.9	7.9	9.1	12.7	12.9	12.5	7.7	4.5	1.7	**0.1**	0.2	1.4	3.2	**0.1**	12.9	2.9
	SSE	ESE	NNE	ESE	N	NNE	N	ESE	NNE	NE	E	SE	SE	N	NNW	NNW	NNW	NNW	NNW	NNW	E	NNW	WNW	W			

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PEACE RIVER AREA MONITORING PROGRAM

986c Station - February 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	35.9	kph	on February 6 at hour 13	Hours in Service:	672
Maximum Daily Value:	22.8	kph	on February 6	Hours of Data:	672
Minimum Hourly Value:	0.1	kph	on February 13 at hour 15	Hours of Missing Data:	0
Minimum Daily Value:	0.9	kph	on February 16	Hours of Calibration:	0
Monthly Average:	4.3	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 250 (WSW) degree

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 21	4.1	2.5	4.1	4.1	4.3	4.9	4.2	4.1	3.8	3.6	4.9	4.9	6.2	5.3	7.1	9.0	10.3	9.1	10.5	9.2	6.3	3.5	2.9	5.3	2.5	10.5	5.3
	W	SW	WNW	W	WSW	WSW	W	W	WSW	WSW	WNW	NW	WNW	NW	WNW	W	W	W	W	WSW	W	W	WSW	WSW			
Feb 22	4.0	3.0	5.7	6.3	4.6	5.2	6.2	4.0	8.1	7.1	7.6	10.2	12.1	13.9	15.6	16.4	16.7	13.0	14.2	13.8	17.6	16.7	20.0	19.1	3.0	20.0	10.4
	WSW	SW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	W	W	WSW	WSW	WSW	SW	SW	SW	SSW	WSW	WSW	SW	SW	SW			
Feb 23	16.3	17.8	20.6	18.1	16.8	14.9	18.1	15.4	13.3	18.1	17.5	15.9	13.5	9.6	5.7	6.8	7.1	4.0	6.6	6.2	9.7	10.5	8.0	9.7	4.0	20.6	11.6
	SW	WSW	SW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	WNW	NW	NW	WNW	W	W	W	W	W	WNW			
Feb 24	12.2	9.0	10.9	6.3	5.0	3.6	6.9	7.3	8.6	5.5	5.4	6.9	9.3	10.1	11.1	11.0	9.0	9.1	12.2	12.9	11.4	9.9	9.7	9.8	3.6	12.9	5.6
	NNW	N	NNW	NNW	NW	WNW	WNW	NW	NW	NW	WNW	W	SW	SW	SW	SW	SSW	SSW	SSW	WSW	SW	SSW	SW	SW			
Feb 25	9.3	10.6	10.9	10.6	12.2	11.4	11.2	16.0	14.1	18.6	14.7	15.0	10.2	10.7	7.6	4.7	4.9	8.8	5.9	6.2	9.6	9.4	8.9	6.8	4.7	18.6	9.1
	S	S	S	S	S	SW	WSW	SSW	WSW	W	SW	SW	WSW	W	W	WNW	WSW	SW	WSW	WSW	SW	SW	SW	SW			
Feb 26	6.1	2.4	1.2	5.6	2.4	1.7	1.7	7.8	7.5	9.6	10.0	11.7	5.6	5.6	6.9	12.9	16.6	18.4	15.2	18.0	13.6	20.6	15.9	17.0	1.2	20.6	8.0
	SSW	SSE	ESE	ESE	SSE	NE	ESE	E	ESE	ESE	S	S	S	ESE	ENE	SE	E	SE	ESE	ESE	ESE	S	S	SSE			
Feb 27	18.3	16.2	16.0	16.5	9.3	16.4	11.7	15.1	14.7	15.7	16.8	17.2	17.5	12.4	14.7	13.5	13.8	10.8	9.5	8.3	8.0	8.8	9.7	4.9	4.9	18.3	10.2
	S	S	S	S	E	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	E	ENE	ENE	ENE	ENE	ENE	ENE	E	E			
Feb 28	5.6	8.4	7.1	8.2	8.7	7.1	6.3	6.6	9.3	11.9	11.6	5.9	8.0	2.3	7.2	11.0	7.4	5.4	7.0	5.1	5.2	7.5	1.5	2.8	1.5	11.9	3.9
	SSE	SSW	SSW	SSW	S	S	S	SE	SE	SE	SSE	SSE	NE	ENE	SE	ESE	E	N	NNW	NNW	NE	ESE	ESE	E			

C	Monthly Calibration	S	Daily Zero-Span Check	Q	Quality Assurance			
K	Collection Error	N	No Data (Machine Not in Service)	Y	Routine Maintenance	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 - February 2022

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

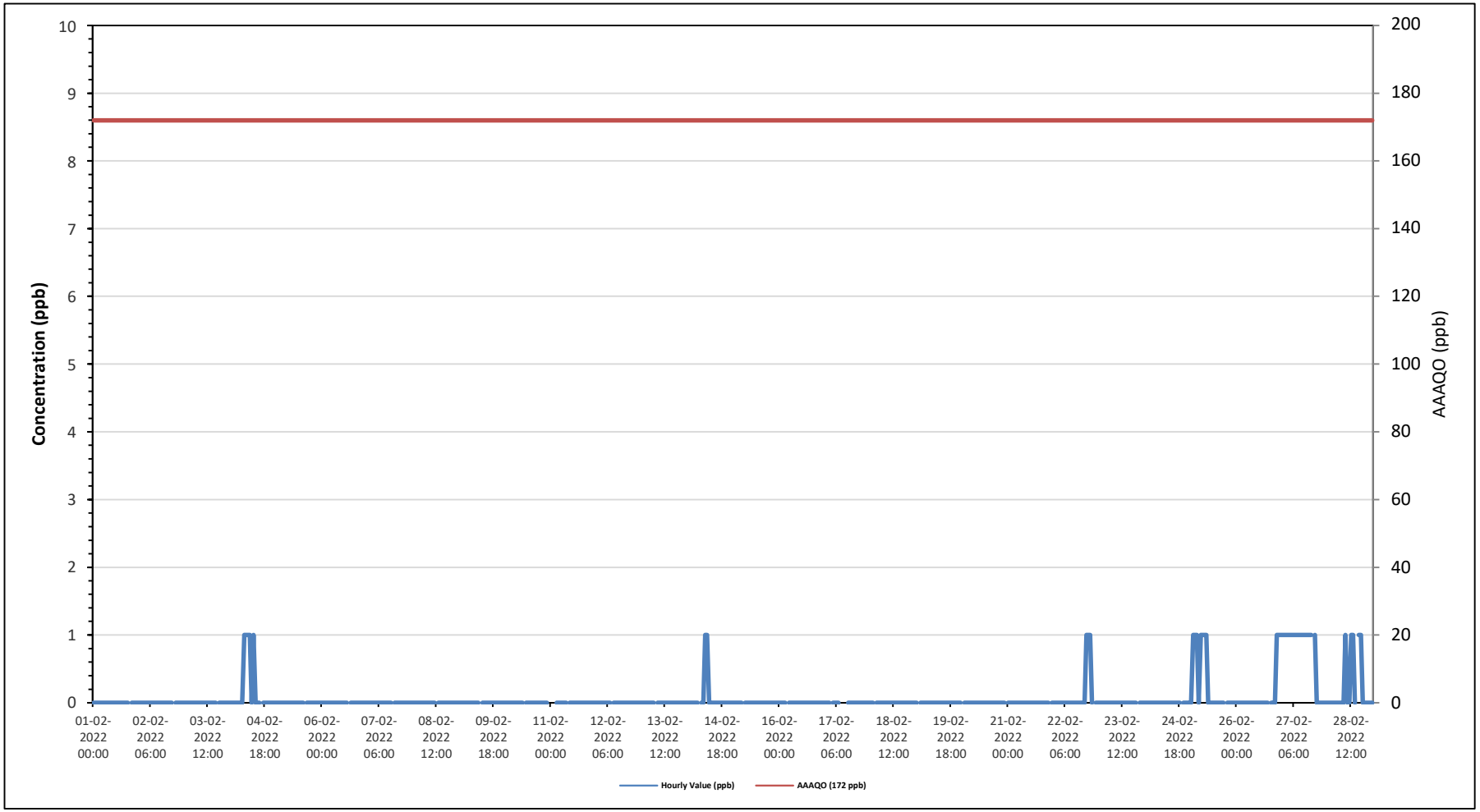
Maximum Hourly Value:	1	ppb	on February 4 at hour 7	Hours in Service:	672
Maximum Daily Value:	0.7	ppb	on February 27	Hours of Data:	635
Minimum Hourly Value:	0	ppb	on February 1 at hour 0	Hours of Missing Data:	4
Minimum Daily Value:	0.0	ppb	on February 1	Hours of Calibration:	33
Monthly Average:	0.1	ppb		Operational Uptime:	99.4

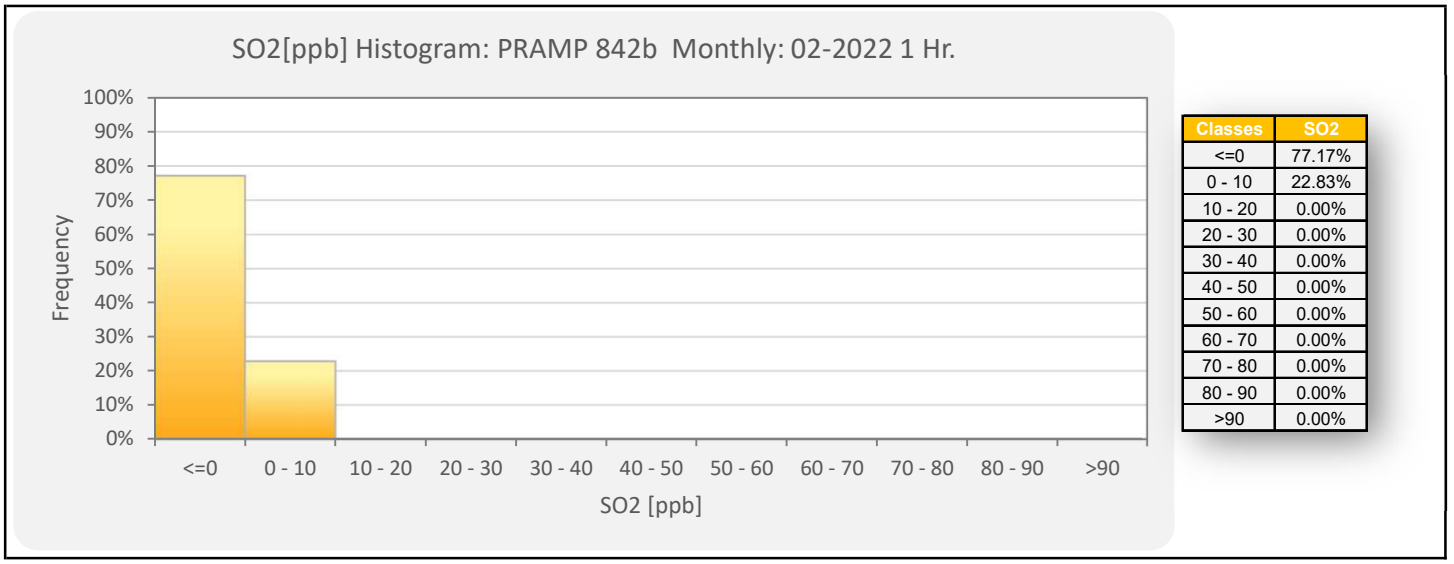
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0.0
Feb 3	0	0	0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

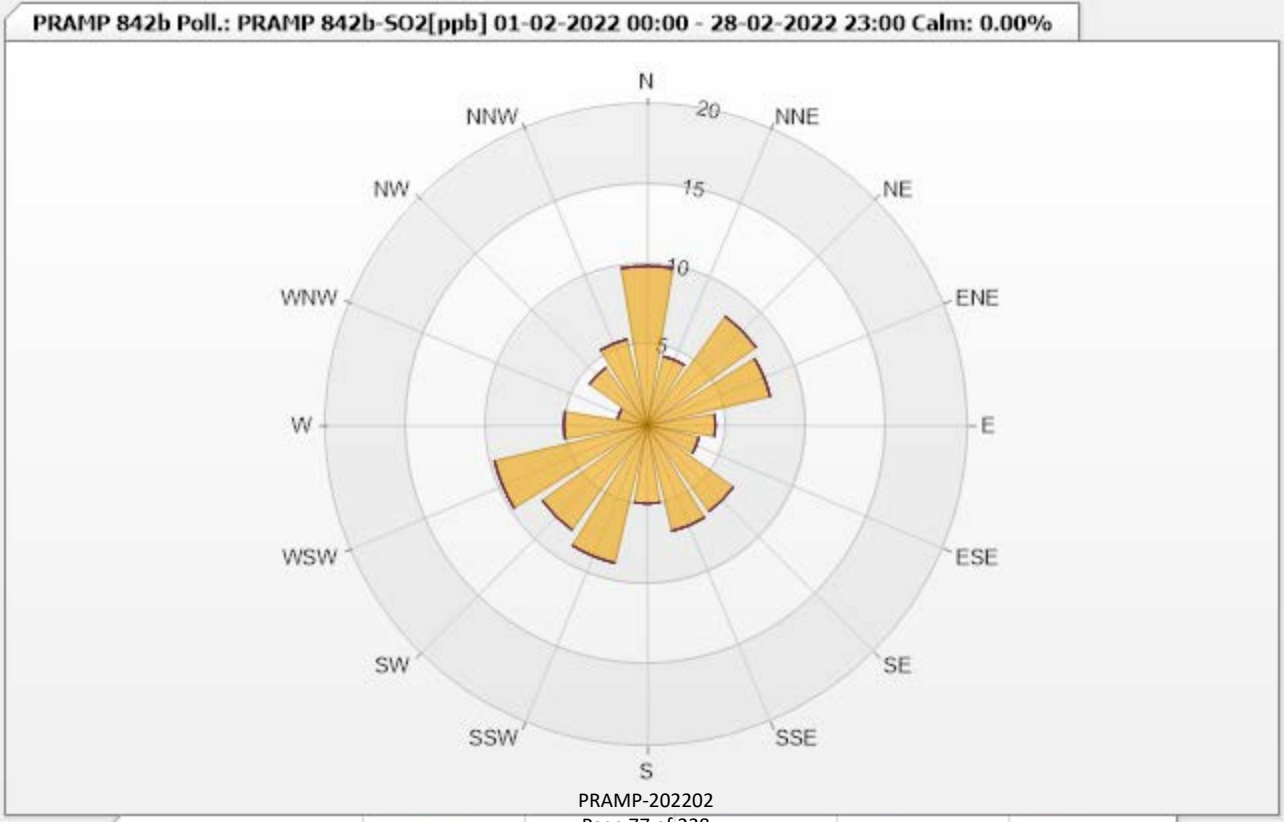




Classes	SO2
<=0	77.17%
0 - 10	22.83%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-SO2[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	9.92	0	0	0	0	9.92
NNE	4.41	0	0	0	0	4.41
NE	8.35	0	0	0	0	8.35
ENE	7.87	0	0	0	0	7.87
E	4.25	0	0	0	0	4.25
ESE	3.31	0	0	0	0	3.31
SE	6.61	0	0	0	0	6.61
SSE	6.77	0	0	0	0	6.77
S	4.88	0	0	0	0	4.88
SSW	8.82	0	0	0	0	8.82
SW	8.03	0	0	0	0	8.03
WSW	9.76	0	0	0	0	9.76
W	5.2	0	0	0	0	5.2
WNW	1.89	0	0	0	0	1.89
NW	4.41	0	0	0	0	4.41
NNW	5.51	0	0	0	0	5.51
Summary	100	0	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-SO2[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% 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 - February 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

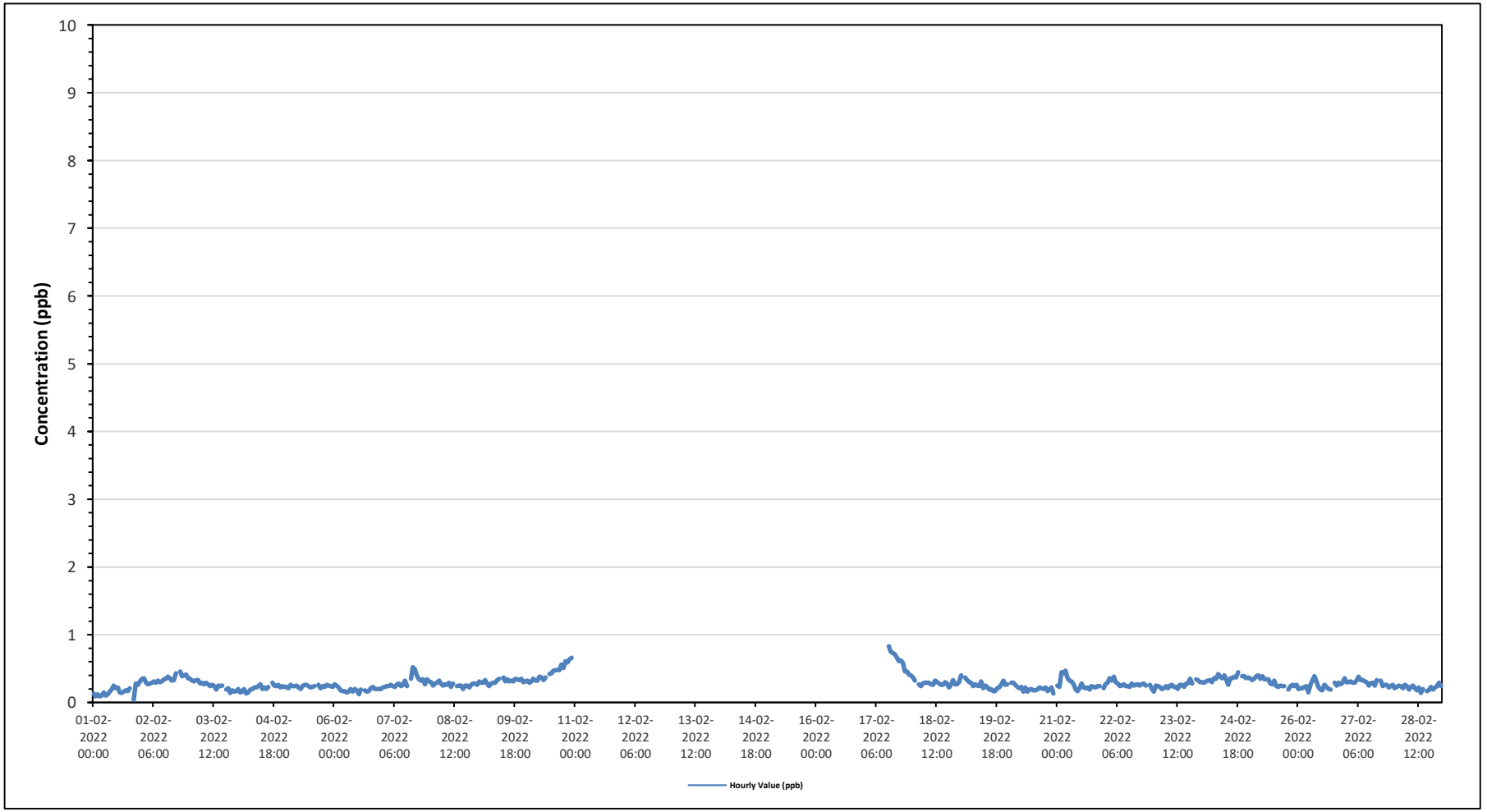
Maximum Hourly Value:	0.83	ppb	on February 17 at hour 12	Hours in Service:	672
Maximum Daily Value:	0.44	ppb	on February 10	Hours of Data:	493
Minimum Hourly Value:	0.04	ppb	on February 1 at hour 20	Hours of Missing Data:	153
Minimum Daily Value:	0.17	ppb	on February 1	Hours of Calibration:	26
Monthly Average:	0.28	ppb		Operational Uptime:	77.2

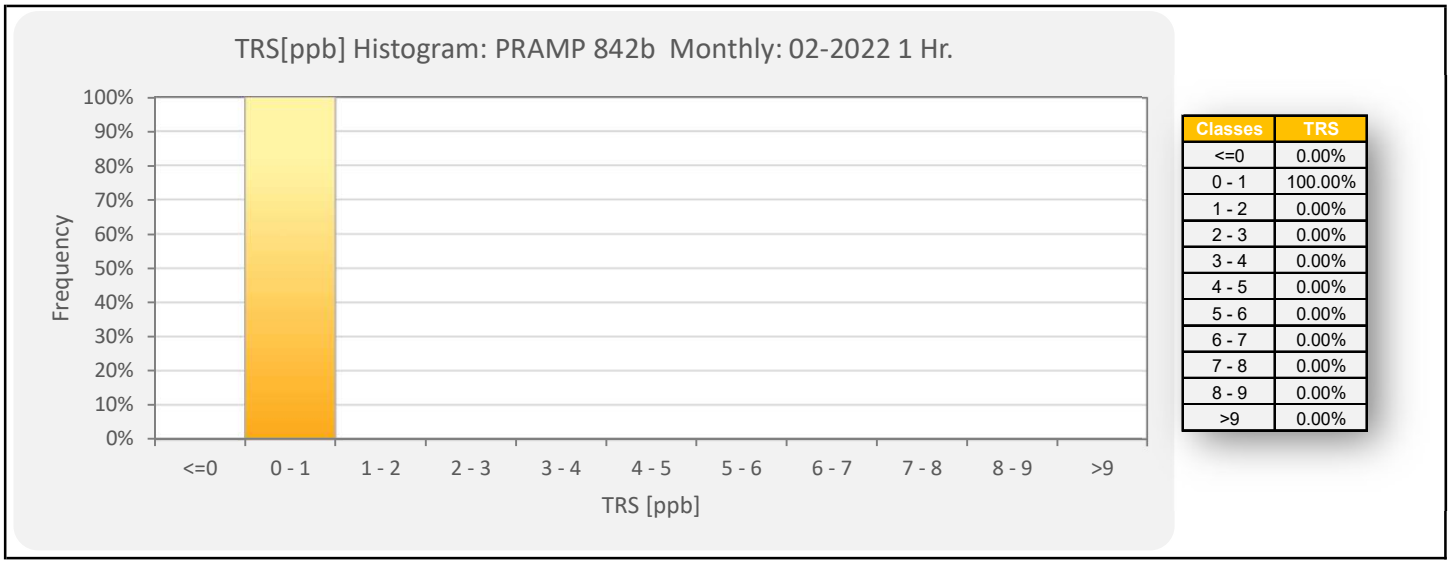
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0.13	0.09	0.12	0.09	0.1	0.15	0.1	0.12	0.16	0.2	0.25	0.21	0.22	0.15	0.14	0.16	0.18	0.17	0.21	S	0.04	0.28	0.26	0.31	**0.04**	0.31	0.17
Feb 2	0.35	0.36	0.29	0.27	0.28	0.29	0.31	0.29	0.32	0.3	0.31	0.34	0.35	0.38	0.36	0.32	0.33	0.43	S	0.46	0.39	0.4	0.41	0.36	0.27	0.46	0.34
Feb 3	0.35	0.32	0.31	0.33	0.33	0.28	0.29	0.27	0.29	0.27	0.24	0.26	0.24	0.19	0.25	0.24	0.25	S	0.19	0.21	0.14	0.18	0.16	0.17	0.14	0.35	0.25
Feb 4	0.2	0.15	0.16	0.2	0.13	0.15	0.19	0.2	0.22	0.22	0.24	0.27	0.2	0.22	0.2	0.23	S	0.29	0.25	0.24	0.26	0.22	0.24	0.23	0.13	0.29	0.21
Feb 5	0.23	0.21	0.26	0.24	0.24	0.25	0.22	0.2	0.24	0.26	0.26	0.24	0.22	0.23	0.24	S	0.26	0.21	0.24	0.23	0.26	0.25	0.24	0.23	0.20	0.26	0.24
Feb 6	0.27	0.25	0.22	0.18	0.17	0.17	0.15	0.16	0.2	0.16	0.2	0.18	0.12	0.19	S	0.18	0.16	0.17	0.21	0.23	0.2	0.2	0.2	0.2	0.12	0.27	0.19
Feb 7	0.22	0.23	0.24	0.24	0.26	0.24	0.23	0.27	0.28	0.24	0.26	0.32	0.24	S	0.35	0.52	0.49	0.4	0.34	0.32	0.34	0.27	0.34	0.31	0.22	0.52	0.30
Feb 8	0.3	0.25	0.28	0.29	0.32	0.28	0.25	0.27	0.26	0.29	0.23	0.28	S	0.24	0.25	0.25	0.2	0.25	0.25	0.22	0.26	0.28	0.28	0.26	0.20	0.32	0.26
Feb 9	0.31	0.29	0.29	0.33	0.28	0.24	0.28	0.29	0.29	0.33	0.35	S	0.37	0.31	0.34	0.31	0.32	0.31	0.35	0.34	0.33	0.35	0.3	0.31	0.24	0.37	0.31
Feb 10	0.32	0.29	0.31	0.35	0.32	0.32	0.38	0.37	0.33	0.37	S	0.42	0.43	0.47	0.48	0.48	0.48	0.56	0.51	0.61	0.59	0.64	0.66	P	0.29	0.66	**0.44**
Feb 11	P	P	P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Feb 12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Feb 13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Feb 14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Feb 15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Feb 16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Feb 17	X	X	X	X	X	X	X	X	C	C	C	C	**0.83**	0.75	0.73	0.71	0.66	0.61	0.62	0.58	0.46	0.46	0.41	0.4	0.40	**0.83**	-
Feb 18	0.37	0.32	S	0.27	0.24	0.28	0.29	0.29	0.29	0.27	0.26	0.32	0.3	0.28	0.26	0.26	0.3	0.28	0.22	0.27	0.33	0.27	0.27	0.3	0.22	0.37	0.28
Feb 19	0.4	S	0.37	0.33	0.3	0.29	0.24	0.27	0.25	0.24	0.31	0.21	0.25	0.23	0.19	0.2	0.17	0.17	0.21	0.22	0.26	0.32	0.26	0.27	0.17	0.40	0.26
Feb 20	S	0.29	0.29	0.26	0.23	0.21	0.23	0.16	0.22	0.16	0.19	0.2	0.18	0.18	0.19	0.22	0.21	0.2	0.22	0.17	0.19	0.22	0.13	S	0.13	0.29	0.21
Feb 21	0.25	0.23	0.45	0.43	0.47	0.37	0.32	0.31	0.27	0.19	0.17	0.21	0.28	0.22	0.21	0.22	0.19	0.24	0.23	0.22	0.24	0.24	S	0.21	0.17	0.47	0.27
Feb 22	0.27	0.29	0.36	0.32	0.38	0.3	0.28	0.24	0.25	0.27	0.24	0.24	0.23	0.28	0.25	0.26	0.27	0.25	0.27	0.28	0.25	S	0.26	0.2	0.20	0.38	0.27
Feb 23	0.16	0.25	0.24	0.23	0.2	0.21	0.24	0.21	0.25	0.26	0.23	0.23	0.2	0.26	0.26	0.23	0.28	0.28	0.35	0.28	S	0.34	0.33	0.3	0.16	0.35	0.25
Feb 24	0.3	0.29	0.31	0.32	0.33	0.3	0.36	0.35	0.42	0.38	0.36	0.4	0.34	0.26	0.36	0.36	0.38	0.37	0.45	S	0.39	0.39	0.36	0.37	0.26	0.45	0.35
Feb 25	0.36	0.33	0.35	0.39	0.4	0.35	0.39	0.34	0.34	0.34	0.28	0.27	0.32	0.24	0.23	0.25	0.24	0.24	S	0.19	0.24	0.26	0.24	0.26	0.19	0.40	0.30
Feb 26	0.2	0.21	0.21	0.23	0.24	0.15	0.26	0.33	0.39	0.31	0.23	0.19	0.18	0.26	0.23	0.2	0.19	S	0.29	0.25	0.29	0.27	0.29	0.36	0.15	0.39	0.25
Feb 27	0.3	0.3	0.31	0.29	0.29	0.32	0.38	0.33	0.33	0.31	0.3	0.25	0.28	0.29	0.25	0.33	S	0.32	0.24	0.26	0.26	0.22	0.24	0.26	0.22	0.38	0.29
Feb 28	0.21	0.23	0.25	0.24	0.21	0.26	0.24	0.19	0.23	0.25	0.21	0.18	0.22	0.14	0.2	S	0.17	0.18	0.23	0.19	0.22	0.24	0.29	0.24	0.14	0.29	0.22
Diurnal Maximum	0.40	0.36	0.45	0.43	0.47	0.37	0.39	0.37	0.42	0.38	0.36	0.42	0.83	0.75	0.73	0.71	0.66	0.61	0.62	0.61	0.59	0.64	0.66	0.40			
Diurnal Average	0.28	0.26	0.28	0.28	0.27	0.26	0.27	0.26	0.28	0.27	0.26	0.26	0.29	0.27	0.28	0.30	0.29	0.30	0.29	0.29	0.28	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 - 842b Station

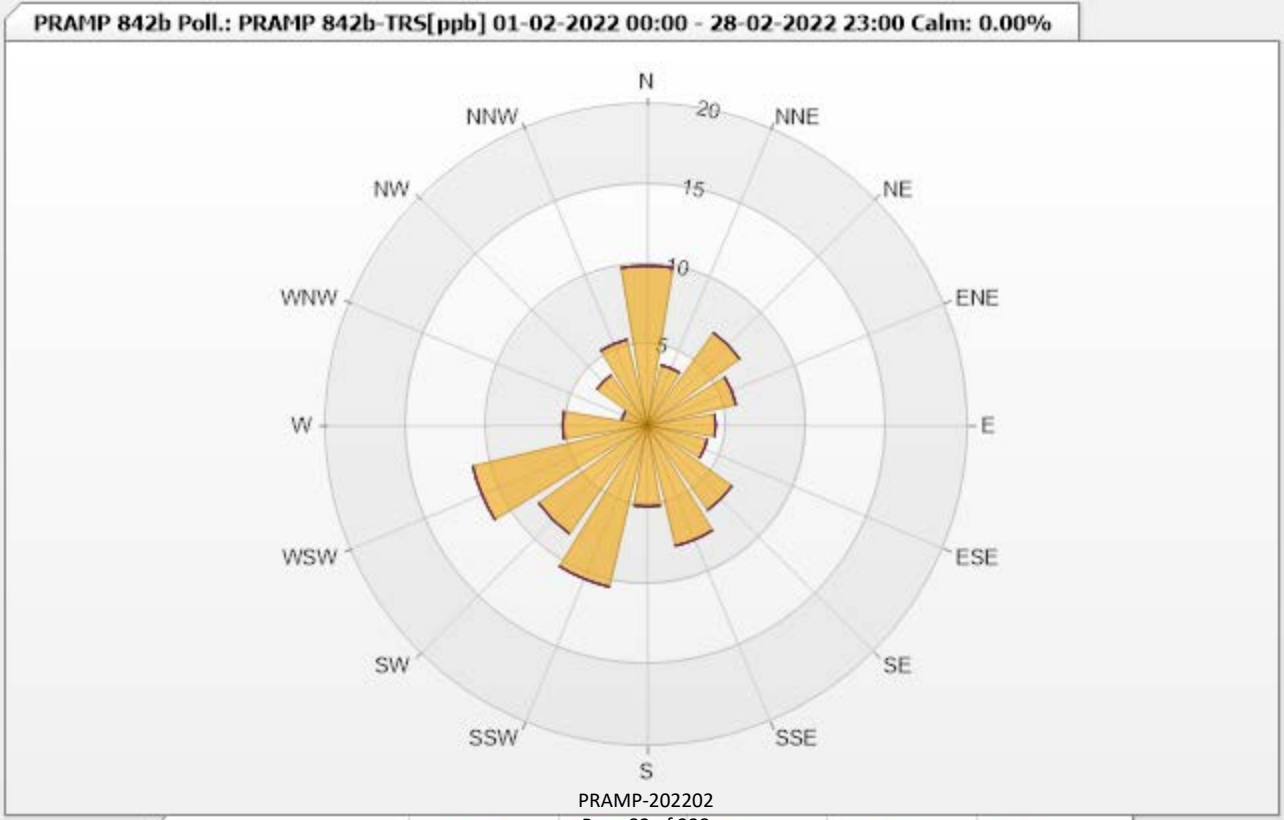




Classes	TRS
<=0	0.00%
0 - 1	100.00%
1 - 2	0.00%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-TRS[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 73.36% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	9.94	0	0	0	0	9.94
NNE	3.85	0	0	0	0	3.85
NE	7.1	0	0	0	0	7.1
ENE	5.68	0	0	0	0	5.68
E	4.26	0	0	0	0	4.26
ESE	3.85	0	0	0	0	3.85
SE	6.49	0	0	0	0	6.49
SSE	7.71	0	0	0	0	7.71
S	5.07	0	0	0	0	5.07
SSW	10.34	0	0	0	0	10.34
SW	8.32	0	0	0	0	8.32
WSW	11.16	0	0	0	0	11.16
W	5.27	0	0	0	0	5.27
WNW	1.62	0	0	0	0	1.62
NW	3.85	0	0	0	0	3.85
NNW	5.48	0	0	0	0	5.48
Summary	100	0	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-TRS[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% 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 - February 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

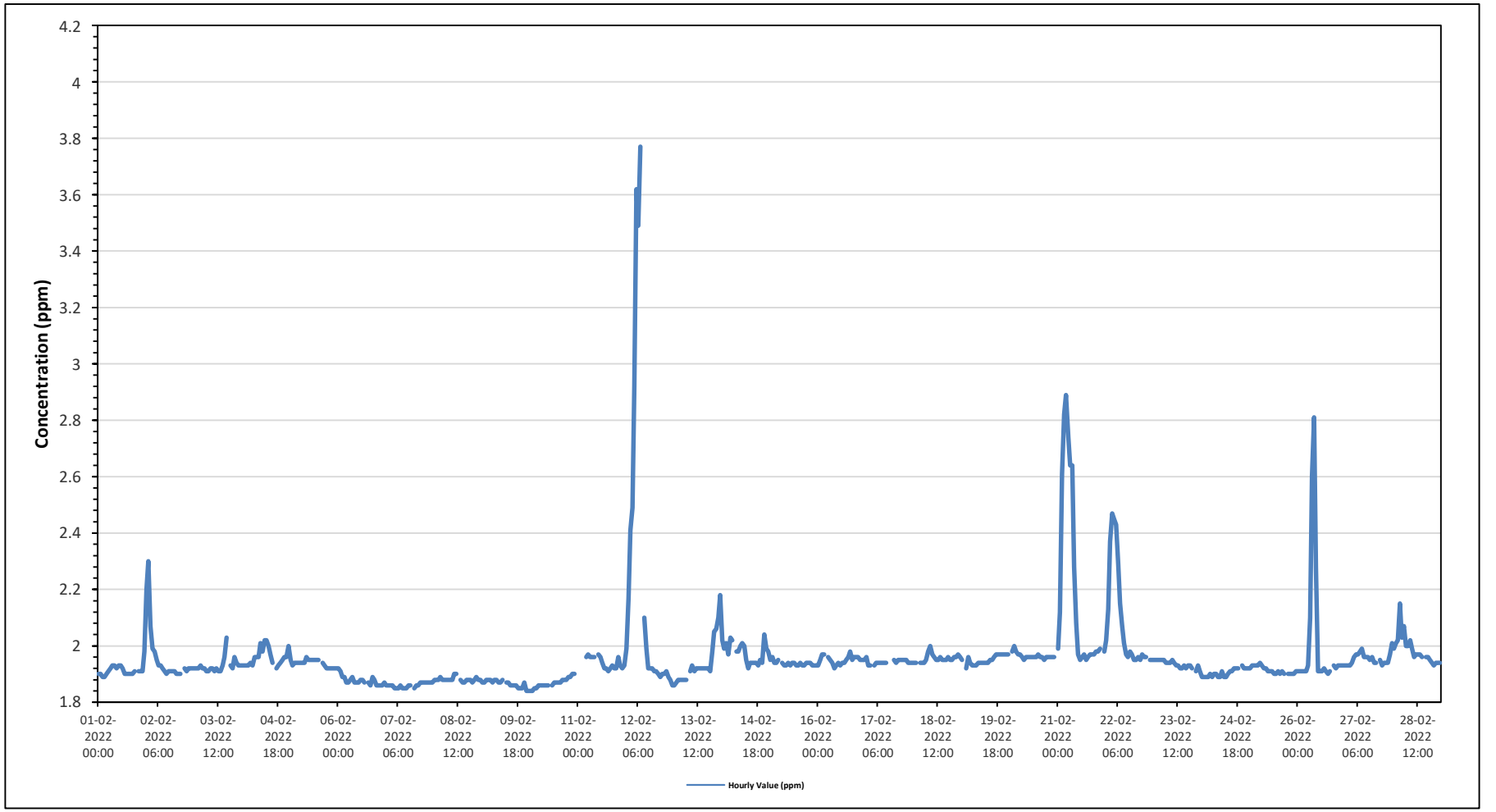
Maximum Hourly Value:	3.77	ppm	on February 12 at hour 7	Hours in Service:	672
Maximum Daily Value:	2.25	ppm	on February 12	Hours of Data:	635
Minimum Hourly Value:	1.84	ppm	on February 9 at hour 22	Hours of Missing Data:	5
Minimum Daily Value:	1.86	ppm	on February 7	Hours of Calibration:	32
Monthly Average:	1.96	ppm		Operational Uptime:	99.3

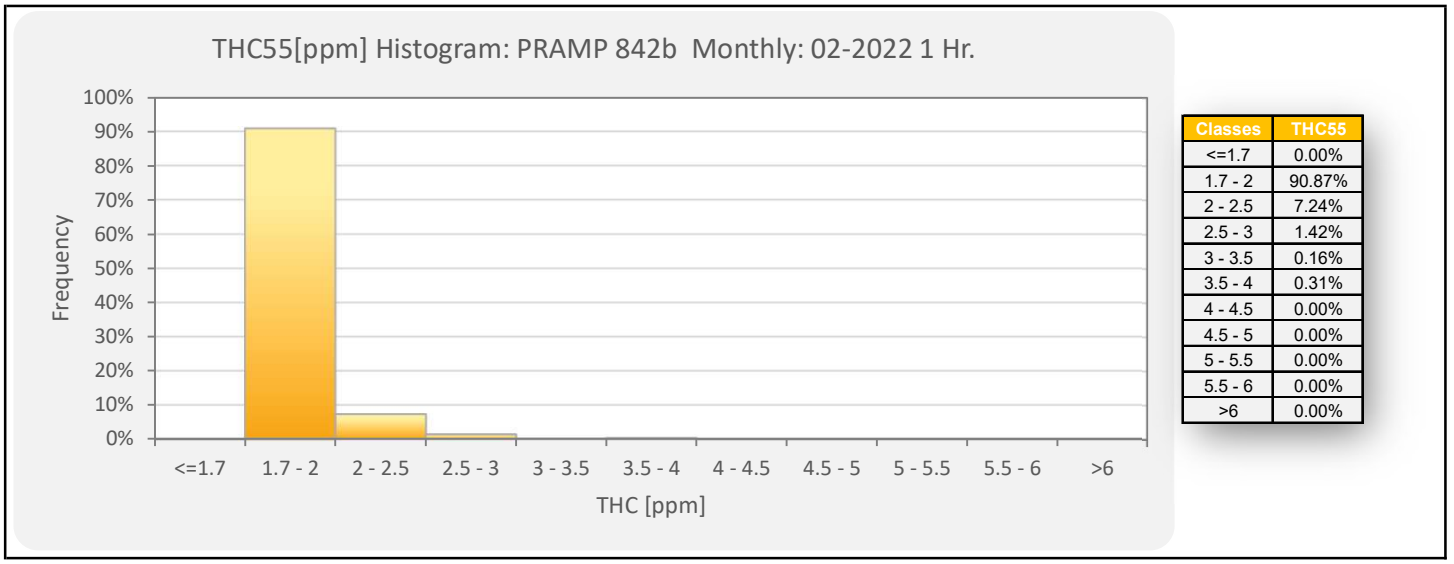
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	1.90	1.90	1.89	1.89	1.90	1.91	1.92	1.93	1.93	1.92	1.93	1.93	1.92	1.90	1.90	1.90	1.90	1.90	1.91	S	1.91	1.91	1.91	1.98	1.89	1.98	1.91
Feb 2	2.20	2.30	2.07	1.99	1.98	1.95	1.93	1.93	1.92	1.91	1.90	1.91	1.91	1.91	1.91	1.90	1.90	1.90	S	1.92	1.91	1.92	1.92	1.92	1.90	2.30	1.96
Feb 3	1.92	1.92	1.92	1.93	1.92	1.92	1.91	1.91	1.92	1.92	1.91	1.92	1.91	1.91	1.93	1.96	2.03	S	1.93	1.92	1.96	1.94	1.93	1.93	1.91	2.03	1.93
Feb 4	1.93	1.93	1.93	1.93	1.94	1.93	1.96	1.96	1.96	2.01	1.98	2.02	2.02	2.00	1.97	1.94	S	1.92	1.93	1.94	1.95	1.96	1.96	2.00	1.92	2.02	1.96
Feb 5	1.95	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.96	1.95	1.95	1.95	1.95	1.95	1.95	S	1.94	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.96	1.94
Feb 6	1.92	1.91	1.89	1.89	1.87	1.87	1.88	1.89	1.87	1.87	1.87	1.88	1.88	1.87	S	1.87	1.86	1.89	1.88	1.86	1.86	1.86	1.86	1.87	1.86	1.92	1.88
Feb 7	1.86	1.86	1.86	1.86	1.85	1.85	1.85	1.86	1.85	1.85	1.85	1.86	1.86	S	1.85	1.86	1.86	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.85	1.87	1.86
Feb 8	1.88	1.88	1.88	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.90	1.90	S	1.88	1.87	1.87	1.88	1.88	1.88	1.87	1.88	1.89	1.88	1.88	1.87	1.90	1.88
Feb 9	1.87	1.87	1.88	1.88	1.88	1.87	1.88	1.88	1.87	1.87	1.88	S	1.87	1.87	1.86	1.86	1.86	1.86	1.85	1.85	1.85	1.87	1.84	1.84	**1.84**	1.88	1.87
Feb 10	1.84	1.84	1.85	1.85	1.86	1.86	1.86	1.86	1.86	1.86	S	1.86	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.89	1.89	1.90	1.90	P	**1.84**	1.90	1.87
Feb 11	P	P	P	X	1.96	1.97	1.96	1.96	1.96	S	1.97	1.96	1.94	1.92	1.92	1.91	1.92	1.93	1.92	1.92	1.96	1.93	1.92	1.93	1.91	1.97	1.94
Feb 12	1.99	2.17	2.41	2.49	2.92	3.62	3.49	**3.77**	S	2.10	1.99	1.92	1.92	1.92	1.91	1.91	1.90	1.89	1.90	1.90	1.91	1.89	1.88	1.86	1.86	**3.77**	**2.25**
Feb 13	1.86	1.87	1.88	1.88	1.88	1.88	1.88	S	1.91	1.93	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.91	1.98	2.05	2.06	2.10	2.18	1.86	2.18	1.94
Feb 14	2.02	1.99	2.01	1.97	2.03	2.02	S	1.98	1.98	2.00	2.01	2.00	1.95	1.92	1.94	1.94	1.94	1.94	1.93	1.95	1.94	2.04	1.99	1.98	1.92	2.04	1.98
Feb 15	1.95	1.96	1.94	1.94	1.95	S	1.94	1.93	1.93	1.94	1.93	1.94	1.94	1.93	1.93	1.94	1.93	1.93	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.96	1.94
Feb 16	1.93	1.95	1.97	1.97	S	1.96	1.95	1.94	1.92	1.93	1.94	1.93	1.94	1.94	1.95	1.96	1.98	1.95	1.96	1.96	1.96	1.95	1.95	1.95	1.92	1.98	1.95
Feb 17	1.96	1.93	1.93	S	1.93	1.94	1.94	1.94	1.94	1.94	1.94	C	C	C	1.95	1.94	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.93	1.96	1.94
Feb 18	1.94	1.94	S	1.94	1.94	1.94	1.95	1.98	2.00	1.97	1.96	1.95	1.95	1.96	1.95	1.95	1.95	1.96	1.95	1.95	1.96	1.96	1.97	1.96	1.94	2.00	1.96
Feb 19	1.95	S	1.92	1.96	1.94	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.92	1.97	1.95
Feb 20	S	1.98	2.00	1.98	1.97	1.97	1.96	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.96	S	1.95	2.00	1.96
Feb 21	1.99	2.12	2.61	2.82	2.89	2.74	2.64	2.64	2.28	2.08	1.97	1.95	1.96	1.97	1.95	1.96	1.97	1.97	1.97	1.98	1.98	1.99	S	1.98	1.95	2.89	2.19
Feb 22	2.02	2.13	2.37	2.47	2.45	2.43	2.29	2.15	2.07	2.01	1.97	1.96	1.98	1.97	1.95	1.95	1.96	1.95	1.97	1.96	1.96	S	1.95	1.95	1.95	2.47	2.08
Feb 23	1.95	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.95	1.94	1.93	1.93	1.92	1.92	1.93	1.92	1.93	1.93	1.92	S	1.91	1.93	1.91	1.91	1.95	1.93
Feb 24	1.89	1.89	1.89	1.89	1.90	1.89	1.90	1.90	1.89	1.89	1.91	1.89	1.89	1.90	1.91	1.91	1.92	1.92	1.92	S	1.93	1.92	1.92	1.92	1.89	1.93	1.90
Feb 25	1.92	1.93	1.93	1.93	1.93	1.94	1.93	1.92	1.92	1.91	1.91	1.91	1.90	1.90	1.91	1.90	1.91	1.90	S	1.90	1.90	1.90	1.90	1.91	1.90	1.94	1.91
Feb 26	1.91	1.91	1.91	1.91	1.91	1.93	2.10	2.60	2.81	2.28	1.91	1.91	1.91	1.92	1.91	1.90	1.91	S	1.93	1.92	1.93	1.93	1.93	1.93	1.90	2.81	2.01
Feb 27	1.93	1.93	1.93	1.94	1.96	1.97	1.97	1.98	1.99	1.96	1.96	1.96	1.95	1.96	1.94	1.94	S	1.95	1.93	1.94	1.94	1.94	1.97	2.01	1.93	2.01	1.95
Feb 28	1.99	2.01	2.02	2.15	2.03	2.07	2.00	2.00	2.02	1.99	1.96	1.97	1.97	1.97	1.96	S	1.96	1.96	1.95	1.94	1.93	1.94	1.94	1.94	1.93	2.15	1.99
Diurnal Maximum	2.20	2.30	2.61	2.82	2.92	3.62	3.49	3.77	2.81	2.28	2.01	2.02	2.02	2.00	1.97	1.96	2.03	1.97	1.97	1.98	2.05	2.06	2.10	2.18			
Diurnal Average	1.94	1.96	1.99	2.01	2.02	2.04	2.03	2.06	1.98	1.96	1.94	1.93	1.93	1.93	1.92	1.92	1.93	1.92	1.92	1.93	1.93	1.93	1.93	1.94			

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

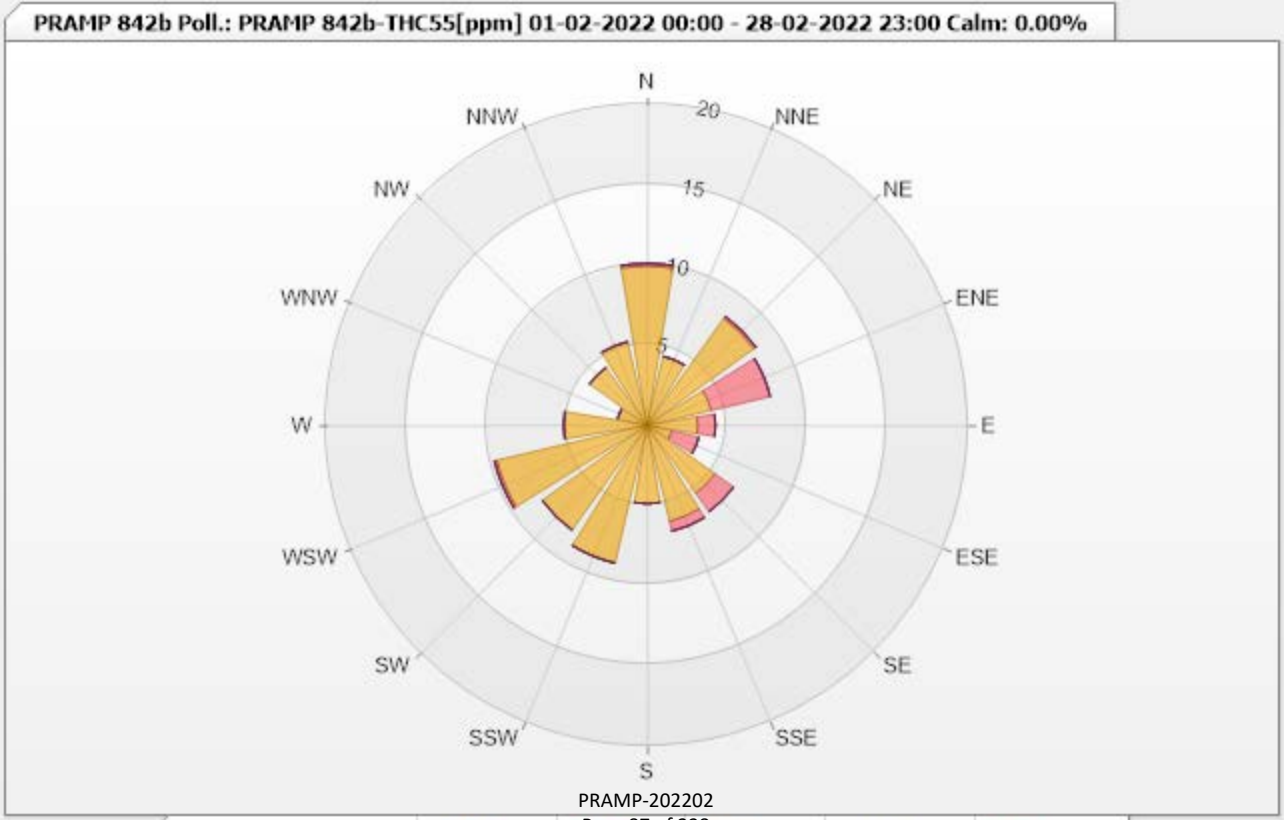




Classes	THC55
<=1.7	0.00%
1.7 - 2	90.87%
2 - 2.5	7.24%
2.5 - 3	1.42%
3 - 3.5	0.16%
3.5 - 4	0.31%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-THC55[ppm] Monthly: 02-2022 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	2-5	5-10	10-40	>40.0	Total
N	9.92	0.16	0	0	0	10.08
NNE	4.41	0	0	0	0	4.41
NE	8.19	0.16	0	0	0	8.35
ENE	4.09	3.78	0	0	0	7.87
E	3.15	1.1	0	0	0	4.25
ESE	1.57	1.73	0	0	0	3.3
SE	5.2	1.42	0	0	0	6.62
SSE	6.14	0.63	0	0	0	6.77
S	4.88	0	0	0	0	4.88
SSW	8.82	0	0	0	0	8.82
SW	8.03	0	0	0	0	8.03
WSW	9.61	0.16	0	0	0	9.77
W	5.2	0	0	0	0	5.2
WNW	1.89	0	0	0	0	1.89
NW	4.41	0	0	0	0	4.41
NNW	5.35	0	0	0	0	5.35
Summary	90.86	9.14	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-THC55[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
91 0-2
9 2-5
0 5-10
0 10-40
0 >40.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

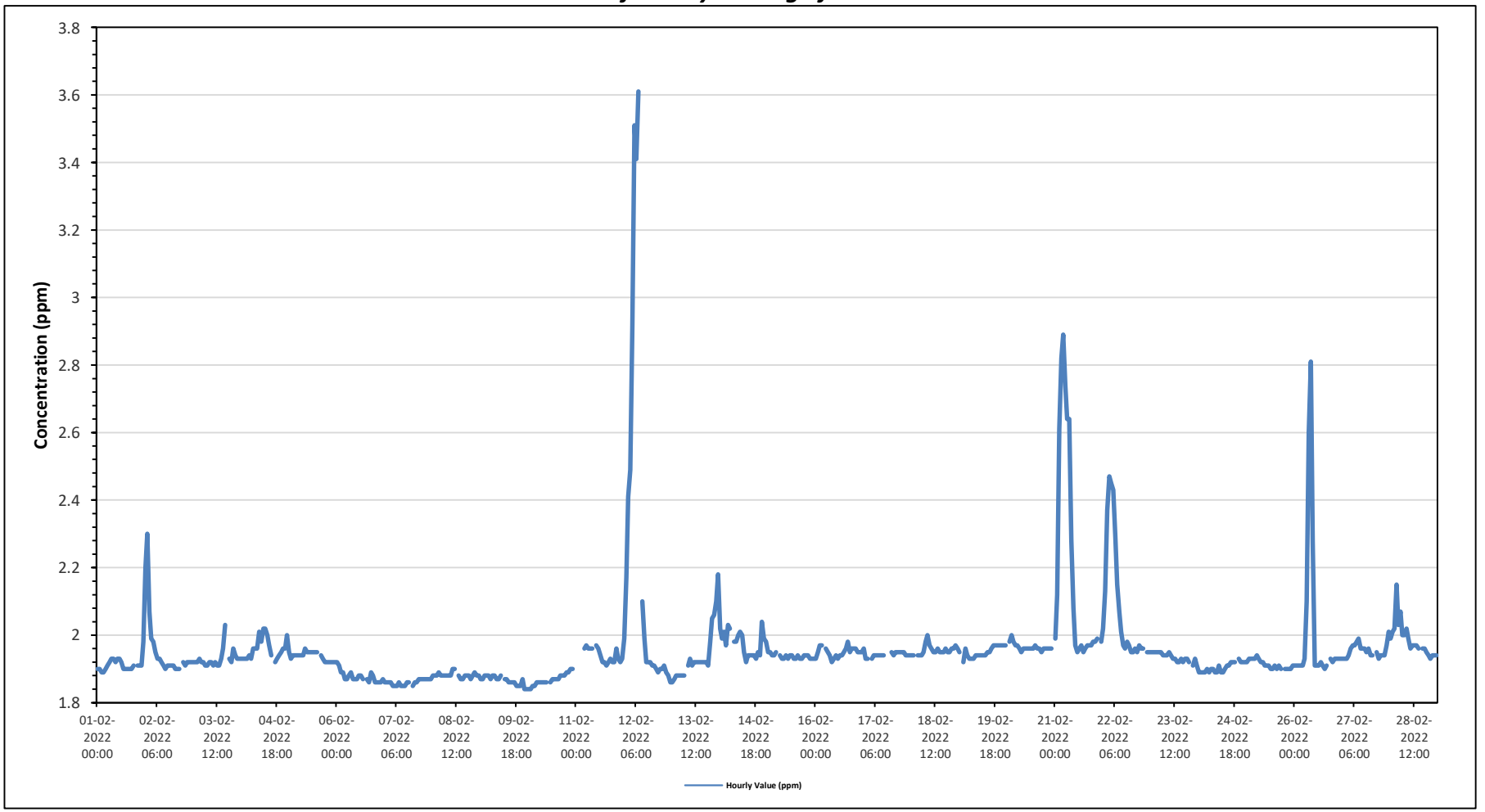
Maximum Hourly Value:	3.61	ppm	on February 12 at hour 7	Hours in Service:	672
Maximum Daily Value:	2.23	ppm	on February 12	Hours of Data:	635
Minimum Hourly Value:	1.84	ppm	on February 9 at hour 22	Hours of Missing Data:	5
Minimum Daily Value:	1.86	ppm	on February 7	Hours of Calibration:	32
Monthly Average:	1.96	ppm		Operational Uptime:	99.3

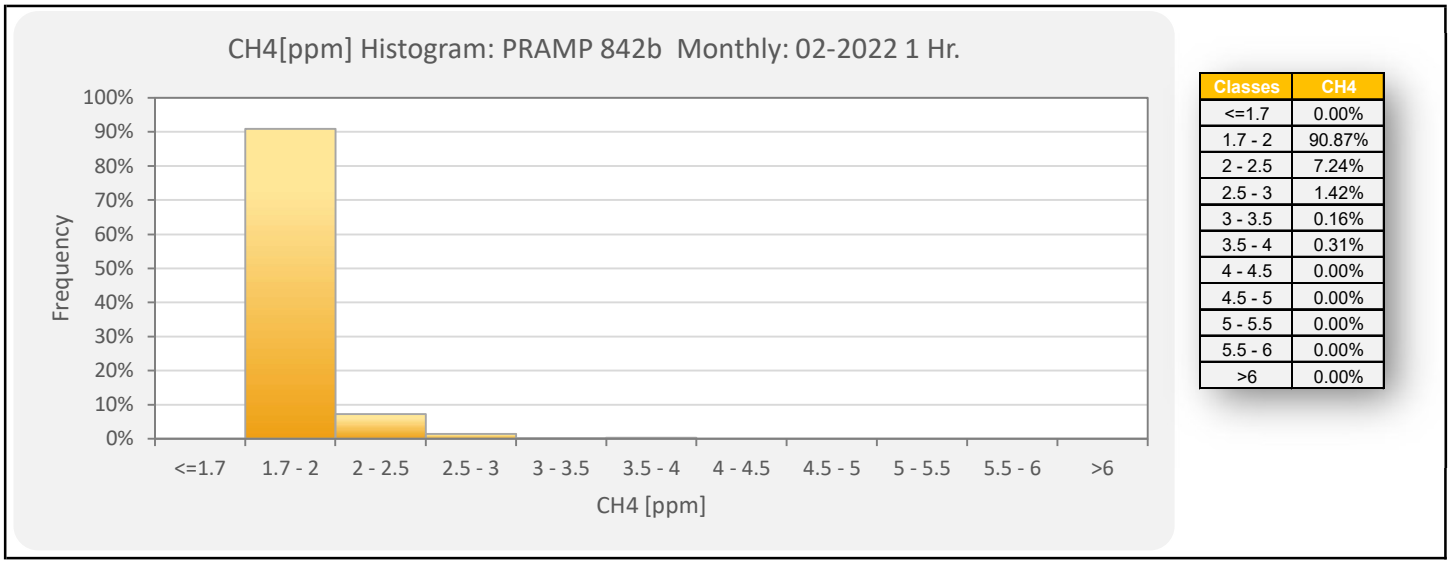
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	1.90	1.90	1.89	1.89	1.90	1.91	1.92	1.93	1.93	1.92	1.93	1.93	1.92	1.90	1.90	1.90	1.90	1.90	1.91	S	1.91	1.91	1.91	1.98	1.89	1.98	1.91
Feb 2	2.20	2.30	2.07	1.99	1.98	1.95	1.93	1.93	1.92	1.91	1.90	1.91	1.91	1.91	1.91	1.90	1.90	1.90	S	1.92	1.91	1.92	1.92	1.92	1.90	2.30	1.96
Feb 3	1.92	1.92	1.92	1.93	1.92	1.92	1.91	1.91	1.92	1.92	1.91	1.92	1.91	1.91	1.93	1.96	2.03	S	1.93	1.92	1.96	1.94	1.93	1.93	1.91	2.03	1.93
Feb 4	1.93	1.93	1.93	1.93	1.94	1.93	1.96	1.96	1.96	2.01	1.98	2.02	2.02	2.00	1.97	1.94	S	1.92	1.93	1.94	1.95	1.96	1.96	2.00	1.92	2.02	1.96
Feb 5	1.95	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.96	1.95	1.95	1.95	1.95	1.95	1.95	S	1.94	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.96	1.94
Feb 6	1.92	1.91	1.89	1.89	1.87	1.87	1.88	1.89	1.87	1.87	1.87	1.88	1.88	1.87	S	1.87	1.86	1.89	1.88	1.86	1.86	1.86	1.86	1.87	1.86	1.92	1.88
Feb 7	1.86	1.86	1.86	1.86	1.85	1.85	1.85	1.86	1.85	1.85	1.85	1.86	1.86	S	1.85	1.86	1.86	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.85	1.87	1.86
Feb 8	1.88	1.88	1.88	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.90	1.90	S	1.88	1.87	1.87	1.88	1.88	1.88	1.87	1.88	1.89	1.88	1.88	1.87	1.90	1.88
Feb 9	1.87	1.87	1.88	1.88	1.88	1.87	1.88	1.88	1.87	1.87	1.88	S	1.87	1.87	1.86	1.86	1.86	1.86	1.85	1.85	1.85	1.87	1.84	1.84	**1.84**	1.88	1.87
Feb 10	1.84	1.84	1.85	1.85	1.86	1.86	1.86	1.86	1.86	1.86	S	1.86	1.87	1.87	1.87	1.87	1.88	1.88	1.88	1.89	1.89	1.90	1.90	P	**1.84**	1.90	1.87
Feb 11	P	P	P	X	1.96	1.97	1.96	1.96	1.96	S	1.97	1.96	1.94	1.92	1.92	1.91	1.92	1.93	1.92	1.92	1.96	1.93	1.92	1.93	1.91	1.97	1.94
Feb 12	1.99	2.17	2.41	2.49	2.92	3.51	3.41	**3.61**	S	2.10	1.99	1.92	1.92	1.92	1.91	1.91	1.90	1.89	1.90	1.90	1.91	1.89	1.88	1.86	1.86	**3.61**	**2.23**
Feb 13	1.86	1.87	1.88	1.88	1.88	1.88	1.88	S	1.91	1.93	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.91	1.98	2.05	2.06	2.10	2.18	1.86	2.18	1.94
Feb 14	2.02	1.99	2.01	1.97	2.03	2.02	S	1.98	1.98	2.00	2.01	2.00	1.95	1.92	1.94	1.94	1.94	1.94	1.93	1.95	1.94	2.04	1.99	1.98	1.92	2.04	1.98
Feb 15	1.95	1.95	1.94	1.94	1.95	S	1.94	1.93	1.93	1.94	1.93	1.94	1.94	1.93	1.93	1.94	1.93	1.93	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.95	1.94
Feb 16	1.93	1.95	1.97	1.97	S	1.96	1.95	1.94	1.92	1.93	1.94	1.93	1.94	1.94	1.95	1.96	1.98	1.95	1.96	1.96	1.96	1.95	1.95	1.95	1.92	1.98	1.95
Feb 17	1.96	1.93	1.93	S	1.93	1.94	1.94	1.94	1.94	1.94	1.94	C	C	C	1.95	1.94	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.93	1.96	1.94
Feb 18	1.94	1.94	S	1.94	1.94	1.94	1.95	1.98	2.00	1.97	1.96	1.95	1.95	1.96	1.95	1.95	1.95	1.96	1.95	1.95	1.96	1.96	1.97	1.96	1.94	2.00	1.96
Feb 19	1.95	S	1.92	1.96	1.94	1.93	1.93	1.93	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.95	1.96	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.92	1.97	1.95
Feb 20	S	1.98	2.00	1.98	1.97	1.97	1.96	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.96	S	1.95	2.00	1.96
Feb 21	1.99	2.12	2.61	2.82	2.89	2.74	2.64	2.64	2.28	2.08	1.97	1.95	1.96	1.97	1.95	1.96	1.97	1.97	1.97	1.98	1.98	1.99	S	1.98	1.95	2.89	2.19
Feb 22	2.02	2.13	2.37	2.47	2.45	2.43	2.29	2.15	2.07	2.01	1.97	1.96	1.98	1.97	1.95	1.95	1.96	1.95	1.97	1.96	1.96	S	1.95	1.95	1.95	2.47	2.08
Feb 23	1.95	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.95	1.94	1.93	1.93	1.92	1.92	1.93	1.92	1.93	1.93	1.92	S	1.91	1.93	1.91	1.91	1.95	1.93
Feb 24	1.89	1.89	1.89	1.89	1.90	1.89	1.90	1.90	1.89	1.89	1.91	1.89	1.89	1.90	1.91	1.91	1.92	1.92	1.92	S	1.93	1.92	1.92	1.92	1.89	1.93	1.90
Feb 25	1.92	1.93	1.93	1.93	1.93	1.94	1.93	1.92	1.92	1.91	1.91	1.91	1.90	1.90	1.91	1.90	1.91	1.90	S	1.90	1.90	1.90	1.90	1.91	1.90	1.94	1.91
Feb 26	1.91	1.91	1.91	1.91	1.91	1.93	2.10	2.60	2.81	2.28	1.91	1.91	1.91	1.92	1.91	1.90	1.91	S	1.93	1.92	1.93	1.93	1.93	1.93	1.90	2.81	2.01
Feb 27	1.93	1.93	1.93	1.94	1.96	1.97	1.97	1.98	1.99	1.96	1.96	1.96	1.95	1.96	1.94	1.94	S	1.95	1.93	1.94	1.94	1.94	1.97	2.01	1.93	2.01	1.95
Feb 28	1.99	2.01	2.02	2.15	2.03	2.07	2.00	2.00	2.02	1.99	1.96	1.97	1.97	1.97	1.96	S	1.96	1.96	1.95	1.94	1.93	1.94	1.94	1.94	1.93	2.15	1.99
Diurnal Maximum	2.20	2.30	2.61	2.82	2.92	3.51	3.41	3.61	2.81	2.28	2.01	2.02	2.02	2.00	1.97	1.96	2.03	1.97	1.97	1.98	2.05	2.06	2.10	2.18			
Diurnal Average	1.94	1.96	1.99	2.01	2.02	2.04	2.03	2.05	1.98	1.96	1.94	1.93	1.93	1.93	1.92	1.92	1.93	1.92	1.92	1.93	1.93	1.93	1.93	1.94			

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

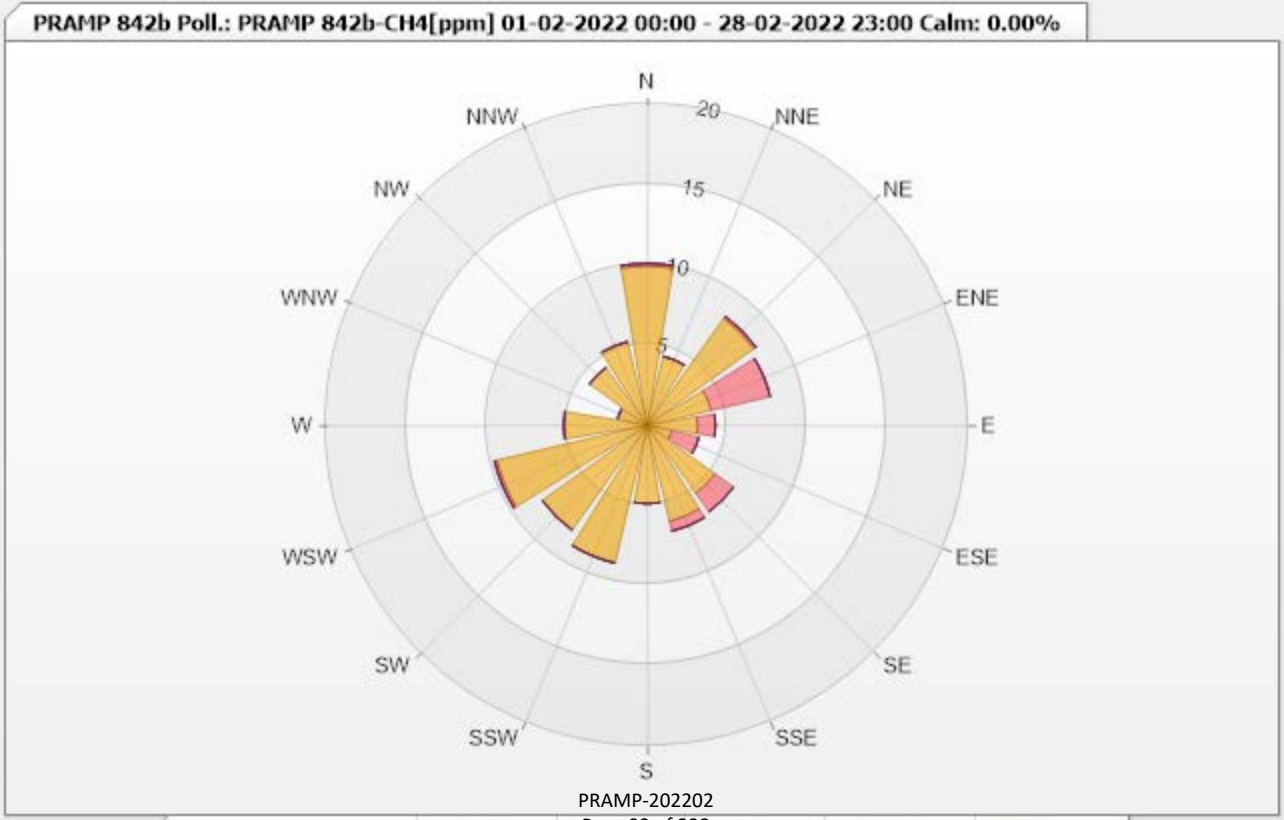




Classes	CH4
<=1.7	0.00%
1.7 - 2	90.87%
2 - 2.5	7.24%
2.5 - 3	1.42%
3 - 3.5	0.16%
3.5 - 4	0.31%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-CH4[ppm] Monthly: 02-2022 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	2-5	5-10	10-20	>20.0	Total
N	9.92	0.16	0	0	0	10.08
NNE	4.41	0	0	0	0	4.41
NE	8.19	0.16	0	0	0	8.35
ENE	4.09	3.78	0	0	0	7.87
E	3.15	1.1	0	0	0	4.25
ESE	1.57	1.73	0	0	0	3.3
SE	5.2	1.42	0	0	0	6.62
SSE	6.14	0.63	0	0	0	6.77
S	4.88	0	0	0	0	4.88
SSW	8.82	0	0	0	0	8.82
SW	8.03	0	0	0	0	8.03
WSW	9.61	0.16	0	0	0	9.77
W	5.2	0	0	0	0	5.2
WNW	1.89	0	0	0	0	1.89
NW	4.41	0	0	0	0	4.41
NNW	5.35	0	0	0	0	5.35
Summary	90.86	9.14	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-CH4[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
91 0-2
9 2-5
0 5-10
0 10-20
0 >20.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

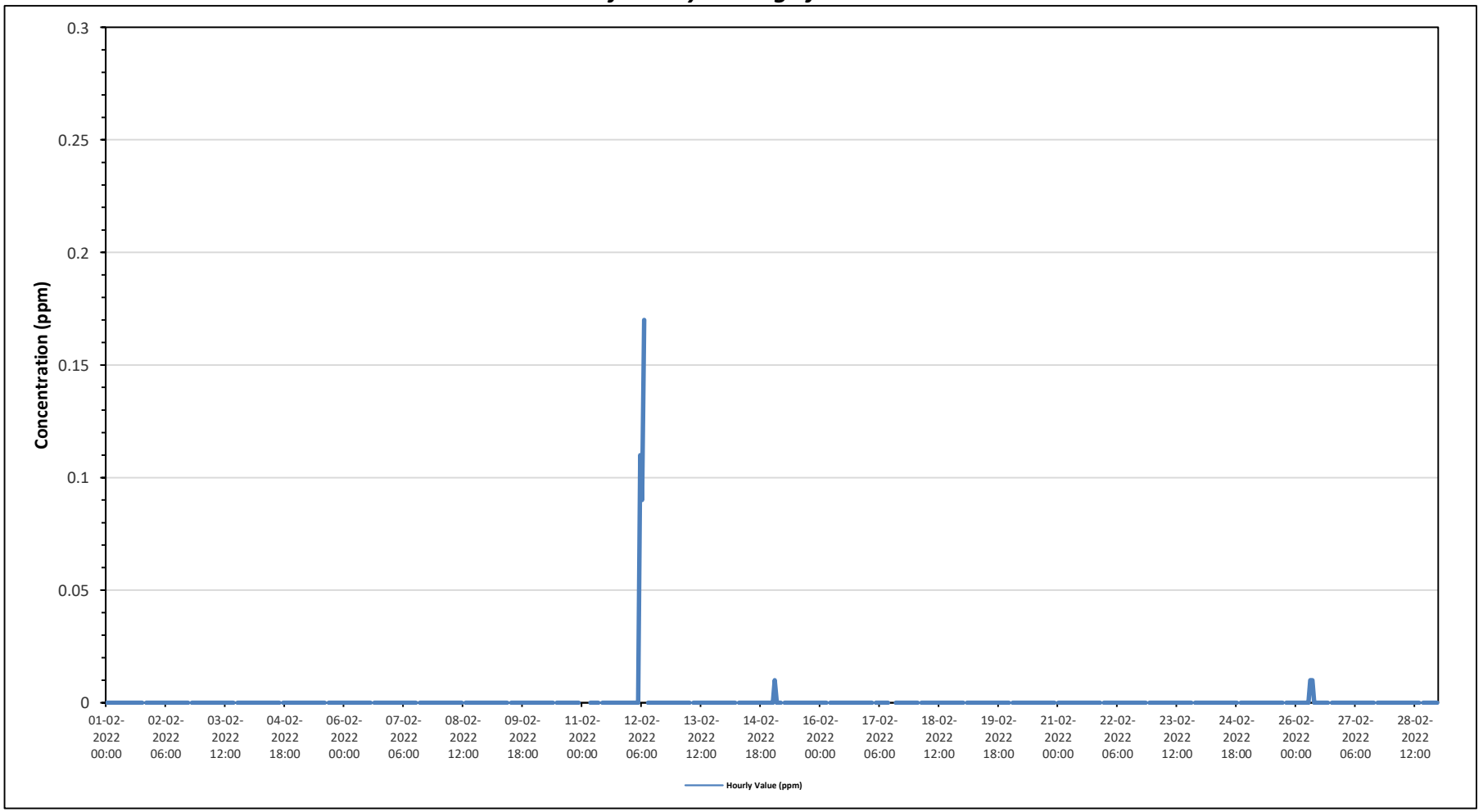
Maximum Hourly Value:	0.17	ppm	on February 12 at hour 7	Hours in Service:	672
Maximum Daily Value:	0.02	ppm	on February 12	Hours of Data:	635
Minimum Hourly Value:	0.00	ppm	on February 1 at hour 0	Hours of Missing Data:	5
Minimum Daily Value:	0.00	ppm	on February 1	Hours of Calibration:	32
Monthly Average:	0.00	ppm		Operational Uptime:	99.3

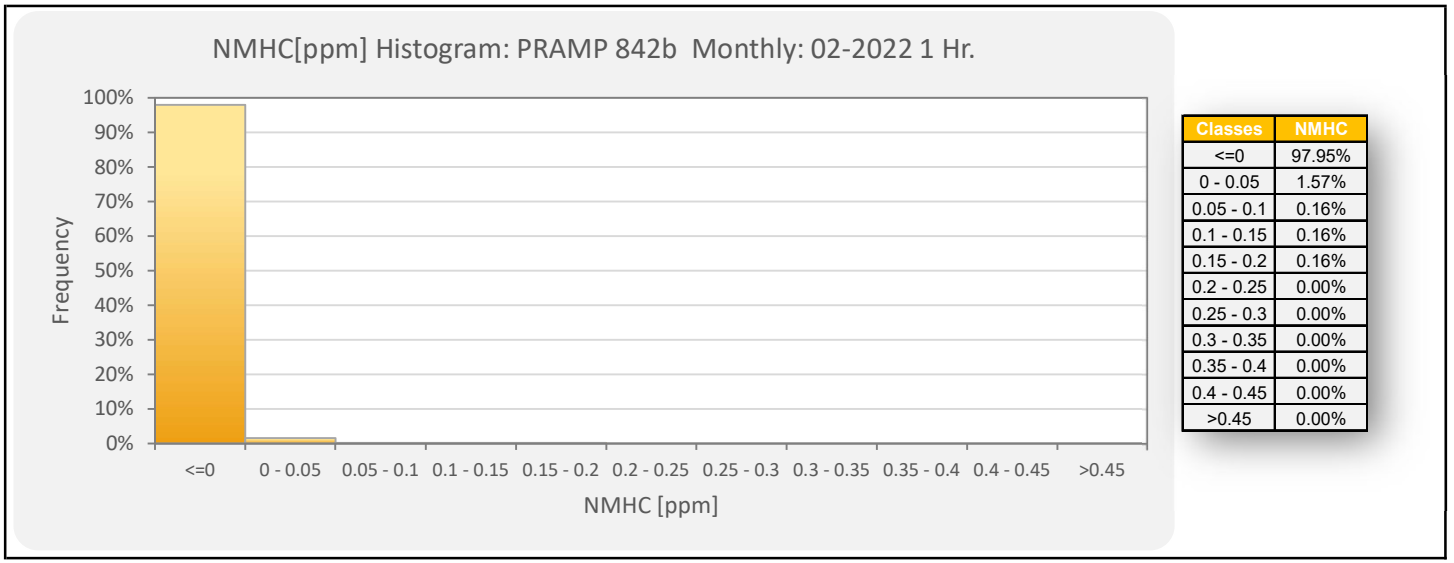
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	P	0.00	0.00	0.00
Feb 11	P	P	P	X	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 12	0.00	0.00	0.00	0.00	0.00	0.11	0.09	**0.17**	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.17**	**0.02**
Feb 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 14	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 15	0.00	0.01	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	0.01	0.00
Feb 16	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 17	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00
Feb 18	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 19	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 20	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
Feb 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Feb 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Feb 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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
Feb 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Feb 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diurnal Maximum	0.00	0.01	0.00	0.00	0.00	0.11	0.09	0.17	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Diurnal Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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

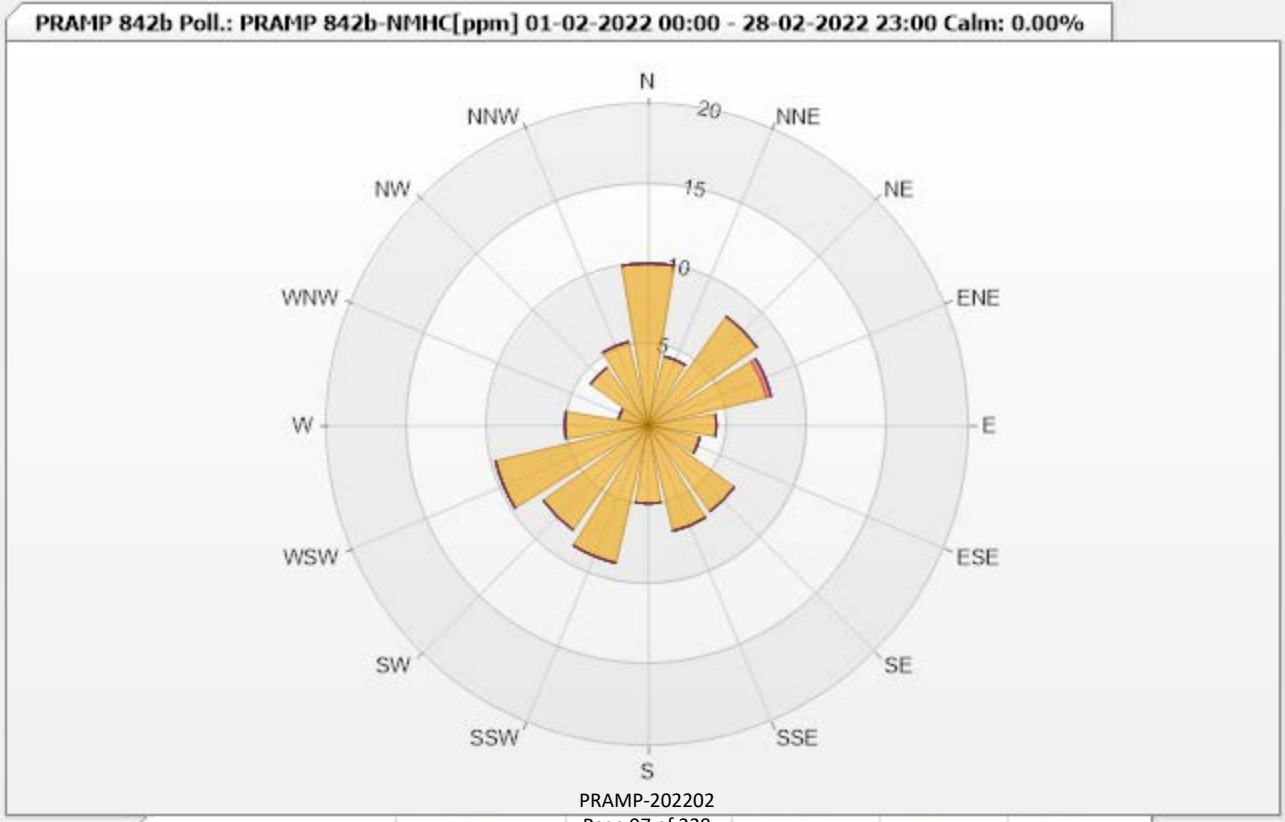




Classes	NMHC
<=0	97.95%
0 - 0.05	1.57%
0.05 - 0.1	0.16%
0.1 - 0.15	0.16%
0.15 - 0.2	0.16%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-NMHC[ppm] Monthly: 02-2022 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	0.3-1	1-2	>2.0	Total
N	10.08	0	0	0	0	10.08
NNE	4.41	0	0	0	0	4.41
NE	8.35	0	0	0	0	8.35
ENE	7.56	0.31	0	0	0	7.87
E	4.25	0	0	0	0	4.25
ESE	3.31	0	0	0	0	3.31
SE	6.61	0	0	0	0	6.61
SSE	6.77	0	0	0	0	6.77
S	4.88	0	0	0	0	4.88
SSW	8.82	0	0	0	0	8.82
SW	8.03	0	0	0	0	8.03
WSW	9.76	0	0	0	0	9.76
W	5.2	0	0	0	0	5.2
WNW	1.89	0	0	0	0	1.89
NW	4.41	0	0	0	0	4.41
NNW	5.35	0	0	0	0	5.35
Summary	100	0.31	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-NMHC[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
100 0-0.1
0 0.1-0.3
0 0.3-1
0 1-2
0 >2.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

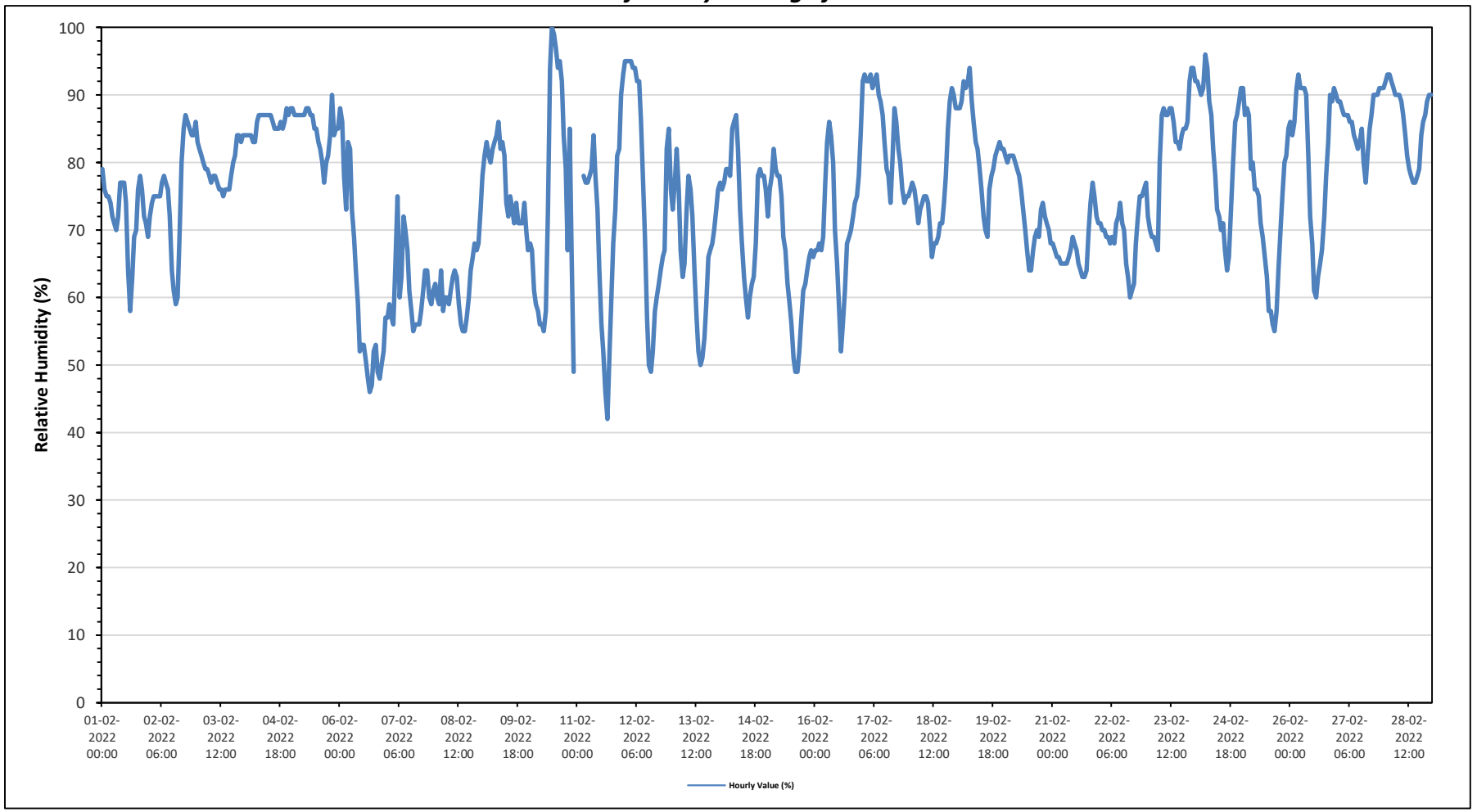
Maximum Hourly Value:	100	%	on February 10 at hour 11	Hours in Service:	672
Maximum Daily Value:	86.2	%	on February 27	Hours of Data:	668
Minimum Hourly Value:	42	%	on February 11 at hour 15	Hours of Missing Data:	4
Minimum Daily Value:	61.1	%	on February 6	Hours of Calibration:	0
Monthly Average:	75.0	%		Operational Uptime:	99.4

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	79	76	75	75	74	72	71	70	72	77	77	77	74	64	58	63	69	70	76	78	76	72	71	69	58	79	72.3
Feb 2	72	74	75	75	75	75	77	78	77	76	72	64	61	59	60	70	80	85	87	86	85	84	84	86	59	87	75.7
Feb 3	83	82	81	80	79	79	78	77	78	78	77	76	76	75	76	76	76	78	80	81	84	84	83	84	75	84	79.2
Feb 4	84	84	84	84	83	83	86	87	87	87	87	87	87	87	86	85	85	85	86	85	86	88	87	88	83	88	85.8
Feb 5	88	87	87	87	87	87	87	88	88	87	87	85	85	83	82	80	77	80	81	84	90	84	85	85	77	90	85.0
Feb 6	88	86	78	73	83	82	73	69	64	59	52	53	53	51	48	46	47	52	53	49	48	50	52	57	46	88	61.1
Feb 7	57	59	57	56	65	75	60	63	72	70	67	61	58	55	56	56	56	58	61	64	64	60	59	61	55	75	61.3
Feb 8	62	60	59	64	58	60	60	59	61	63	64	63	59	56	55	55	57	60	64	66	68	67	68	73	55	73	61.7
Feb 9	78	81	83	81	80	82	83	84	86	82	83	81	74	72	75	73	71	74	71	71	71	74	70	67	67	86	77.0
Feb 10	68	67	61	59	58	56	56	55	58	73	94	**100**	99	97	94	95	92	84	79	67	85	67	49	P	49	**100**	74.5
Feb 11	P	P	P	78	77	77	78	79	84	78	73	64	56	52	46	**42**	52	60	68	73	81	82	90	93	**42**	93	70.6
Feb 12	95	95	95	95	94	94	92	92	86	77	69	57	50	49	52	58	60	62	64	66	67	82	85	76	49	95	75.5
Feb 13	73	77	82	76	67	63	65	73	78	76	72	64	57	52	50	51	54	59	66	67	68	70	73	76	50	82	67.0
Feb 14	77	76	77	79	79	78	85	86	87	82	73	68	63	60	57	60	62	63	68	78	79	78	78	76	57	87	73.7
Feb 15	72	76	78	82	79	78	78	75	69	67	62	59	56	51	49	49	52	57	61	62	64	66	67	66	49	82	65.6
Feb 16	67	67	68	67	69	77	83	86	84	80	70	65	59	52	56	61	68	69	70	72	74	75	78	84	52	86	70.9
Feb 17	92	93	92	92	93	91	92	93	90	89	87	83	79	78	74	80	88	86	82	80	76	74	75	75	74	93	84.8
Feb 18	76	77	76	74	71	73	74	75	75	74	70	66	68	68	69	71	71	74	78	85	89	91	90	88	66	91	76.0
Feb 19	88	88	89	92	91	92	94	89	86	83	82	79	76	72	70	69	76	78	79	81	82	83	82	82	69	94	82.6
Feb 20	81	80	81	81	81	80	79	78	76	73	70	67	64	64	67	69	70	69	73	74	72	71	70	68	64	81	73.3
Feb 21	68	67	66	66	65	65	65	65	66	67	69	68	67	65	64	63	63	64	70	74	77	75	72	71	63	77	67.6
Feb 22	71	70	70	69	69	68	69	68	71	72	74	71	70	65	63	60	61	62	68	72	75	75	76	77	60	77	69.4
Feb 23	72	70	69	69	68	67	80	87	88	87	87	88	88	86	83	83	82	84	85	85	86	92	94	94	67	94	82.3
Feb 24	92	92	91	90	91	96	94	89	87	82	78	73	72	70	71	67	64	66	73	80	86	87	89	91	64	96	82.1
Feb 25	91	87	88	87	79	80	76	76	75	71	69	66	63	58	58	56	55	58	64	70	75	80	81	85	55	91	72.8
Feb 26	86	84	86	91	93	91	91	91	90	81	72	68	61	60	63	65	67	72	78	83	90	89	91	90	60	93	80.5
Feb 27	89	89	88	87	87	87	86	86	84	83	82	83	85	80	77	81	85	87	90	90	90	91	91	91	77	91	**86.2**
Feb 28	92	93	93	92	91	90	90	90	89	87	84	81	79	78	77	77	78	79	84	86	87	89	90	90	77	93	86.1
Diurnal Maximum	95	95	95	95	94	96	94	93	90	89	94	100	99	97	94	95	92	87	90	90	90	92	94	94			
Diurnal Average	79.3	79.1	78.9	78.6	78.1	78.5	78.6	78.9	78.9	77.2	75.1	72.0	69.3	66.4	65.6	66.5	68.5	70.5	73.5	75.3	77.7	77.9	77.9	79.4			

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 - 842b Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

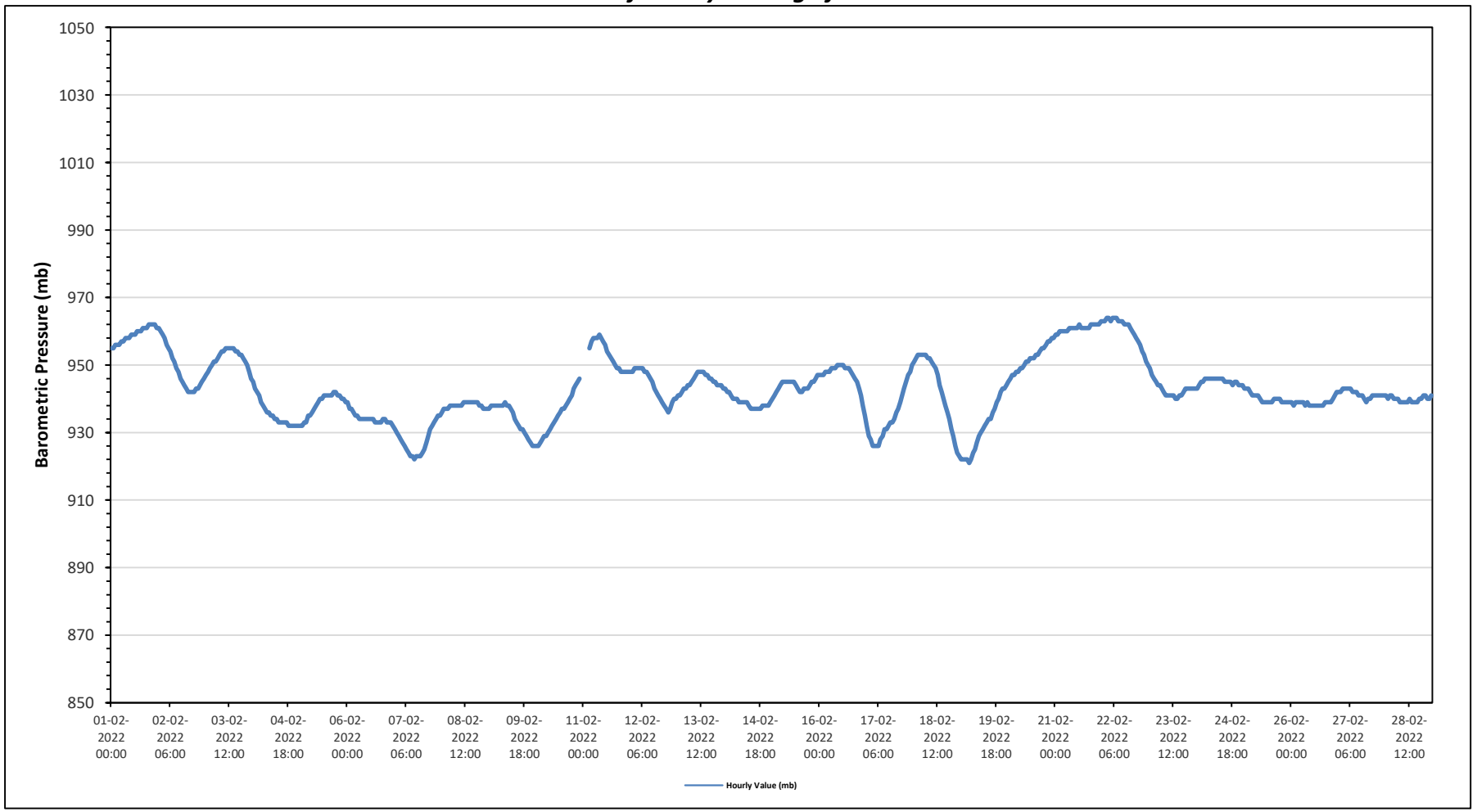
Maximum Hourly Value:	964	mb	on February 22 at hour 2	Hours in Service:	672
Maximum Daily Value:	961	mb	on February 21	Hours of Data:	668
Minimum Hourly Value:	921	mb	on February 19 at hour 4	Hours of Missing Data:	4
Minimum Daily Value:	928	mb	on February 7	Hours of Calibration:	0
Monthly Average:	943	mb		Operational Uptime:	99.4

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	955	955	956	956	956	957	957	958	958	958	959	959	959	960	960	960	961	961	961	962	962	962	962	961	955	962	959.0
Feb 2	961	960	959	958	956	955	954	952	951	949	948	946	945	944	943	942	942	942	942	943	943	944	945	946	942	961	948.8
Feb 3	947	948	949	950	951	951	952	953	954	954	955	955	955	955	955	954	954	953	953	952	951	950	948	946	946	955	951.9
Feb 4	945	943	942	941	939	938	937	936	936	935	935	934	934	933	933	933	933	933	932	932	932	932	932	932	932	945	935.5
Feb 5	932	932	933	933	935	935	936	937	938	939	940	940	941	941	941	941	941	942	942	941	941	940	940	939	932	942	938.3
Feb 6	939	937	937	936	935	935	934	934	934	934	934	934	934	934	933	933	933	933	934	934	933	933	933	932	932	939	934.3
Feb 7	931	930	929	928	927	926	925	924	923	923	922	923	923	923	924	925	927	929	931	932	933	934	935	935	922	935	927.6
Feb 8	936	937	937	937	938	938	938	938	938	938	938	939	939	939	939	939	939	939	939	938	938	937	937	937	936	939	938.0
Feb 9	937	938	938	938	938	938	938	938	939	938	938	937	936	934	933	932	931	931	930	929	928	927	926	926	926	939	934.1
Feb 10	926	926	927	928	929	929	930	931	932	933	934	935	936	937	937	938	939	940	941	943	944	945	946	P	926	946	935.0
Feb 11	P	P	P	955	957	958	958	958	959	958	957	956	954	953	952	951	950	949	949	948	948	948	948	948	948	959	953.0
Feb 12	948	948	949	949	949	949	949	948	948	947	946	945	943	942	941	940	939	938	937	936	937	939	940	940	936	949	943.6
Feb 13	941	941	942	943	943	944	944	945	946	947	948	948	948	948	947	947	946	946	945	945	944	944	944	943	941	948	945.0
Feb 14	943	942	942	941	940	940	940	939	939	939	939	939	938	937	937	937	937	937	937	938	938	938	938	939	937	943	938.9
Feb 15	940	941	942	943	944	945	945	945	945	945	945	945	944	943	942	942	943	943	943	944	945	945	946	947	940	947	943.8
Feb 16	947	947	947	948	948	948	949	949	949	950	950	950	950	949	949	949	948	947	946	945	943	941	938	935	935	950	946.8
Feb 17	932	929	928	926	926	926	926	928	929	931	931	932	933	933	934	936	937	939	941	943	945	947	948	950	926	950	934.6
Feb 18	951	952	953	953	953	953	953	952	952	951	950	949	947	944	942	940	938	936	934	931	929	926	924	923	923	953	943.2
Feb 19	922	922	922	922	**921**	922	924	925	927	929	930	931	932	933	934	934	936	937	939	940	942	943	943	944	**921**	944	931.4
Feb 20	945	946	947	947	948	948	949	949	950	951	951	952	952	952	953	953	954	955	955	956	957	957	958	958	945	958	951.8
Feb 21	959	959	960	960	960	960	960	961	961	961	961	961	962	961	961	961	961	961	962	962	962	962	962	963	959	963	**961.0**
Feb 22	963	963	**964**	**964**	963	**964**	**964**	**964**	963	963	963	962	962	962	961	960	959	958	957	956	954	953	951	950	950	**964**	960.1
Feb 23	949	947	946	945	944	944	943	942	941	941	941	941	941	940	940	941	941	942	943	943	943	943	943	943	940	949	942.8
Feb 24	943	944	945	945	946	946	946	946	946	946	946	946	946	946	945	945	945	945	944	945	945	944	944	944	943	946	945.1
Feb 25	943	943	943	942	941	941	941	941	940	939	939	939	939	939	939	940	940	940	940	939	939	939	939	939	939	943	940.2
Feb 26	939	938	939	939	939	939	939	938	939	938	938	938	938	938	938	938	938	939	939	939	939	940	941	942	938	942	938.8
Feb 27	942	942	943	943	943	943	943	942	942	942	941	941	941	940	939	940	940	941	941	941	941	941	941	941	939	943	941.4
Feb 28	941	940	941	941	940	940	940	939	939	939	939	939	940	939	939	939	939	940	940	941	941	941	940	940	939	941	939.9
Diurnal Maximum	963	963	964	964	963	964	964	964	963	963	963	962	962	962	961	961	961	961	962	962	962	962	962	963			
Diurnal Average	943	943	943	943	943	943	943	943	944	944	944	943	943	943	943	943	943	943	943	943	943	943	943	942			

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

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

Timeseries Chart of Hourly Average for BP - 842b Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

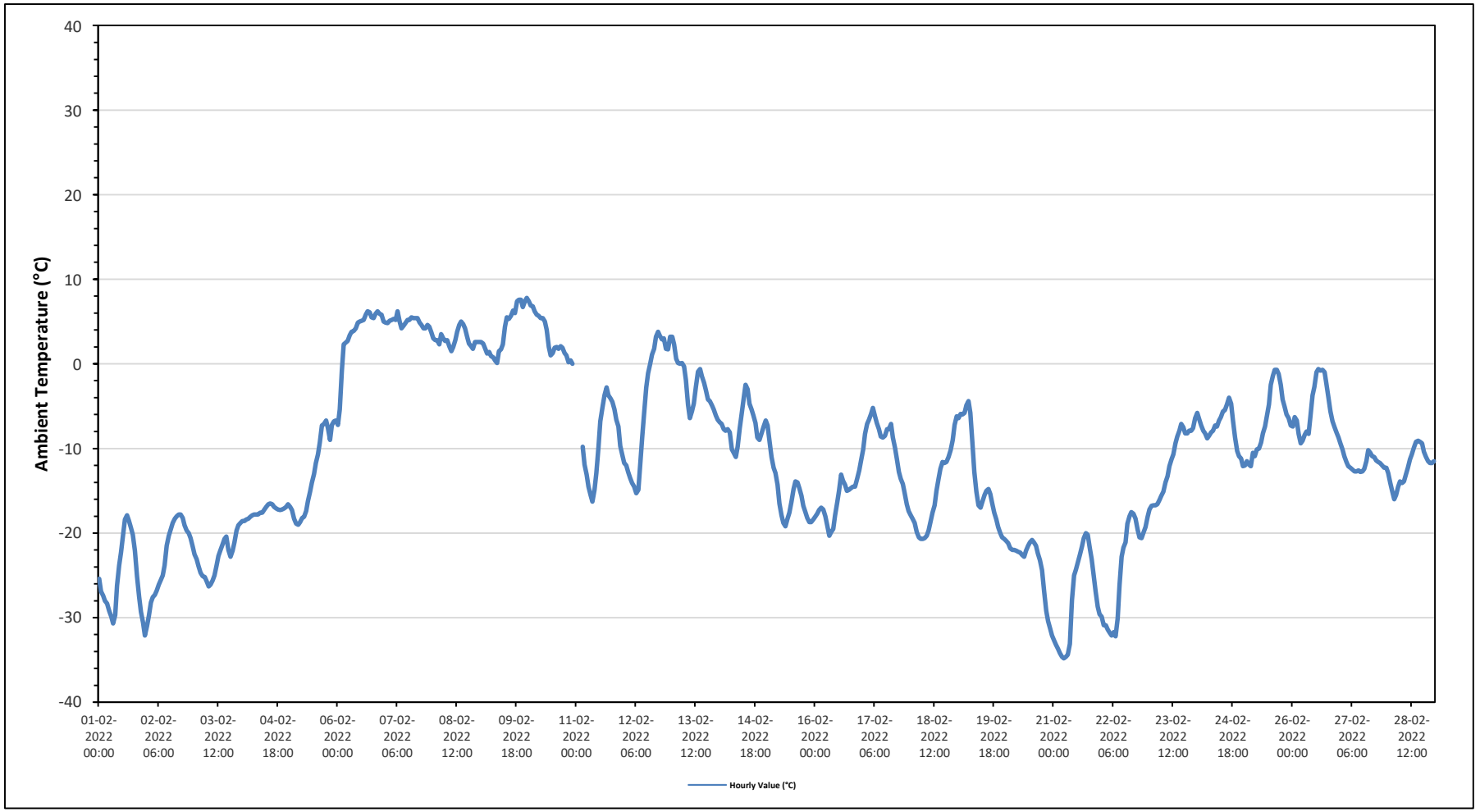
Maximum Hourly Value:	7.8	°C	on February 9 at hour 23	Hours in Service:	672
Maximum Daily Value:	4.9	°C	on February 7	Hours of Data:	668
Minimum Hourly Value:	-34.8	°C	on February 21 at hour 5	Hours of Missing Data:	4
Minimum Daily Value:	-27.8	°C	on February 21	Hours of Calibration:	0
Monthly Average:	-11.0	°C		Operational Uptime:	99.4

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	-25.4	-26.9	-27.4	-28	-28.3	-29.2	-29.9	-30.7	-29.7	-26.2	-23.8	-22.3	-20.2	-18.4	-17.9	-18.5	-19.4	-20.2	-22.1	-25.1	-27.5	-29.3	-30.6	-32.1	-32.1	-17.9	-25.4
Feb 2	-31	-29.8	-28.2	-27.6	-27.3	-26.8	-26.1	-25.6	-25	-23.8	-21.5	-20.3	-19.5	-18.8	-18.3	-18	-17.8	-17.8	-18.2	-19.1	-19.7	-20	-20.6	-21.6	-31.0	-17.8	-22.6
Feb 3	-22.5	-23.1	-23.9	-24.7	-25.1	-25.2	-25.7	-26.3	-26.1	-25.6	-25	-23.8	-22.7	-22	-21.4	-20.7	-20.4	-22	-22.8	-22.1	-21.1	-19.7	-19.1	-18.8	-26.3	-18.8	-22.9
Feb 4	-18.6	-18.6	-18.4	-18.3	-18.1	-17.9	-17.8	-17.8	-17.8	-17.6	-17.6	-17.2	-16.9	-16.6	-16.5	-16.6	-16.9	-17.1	-17.2	-17.3	-17.2	-17.1	-16.9	-16.6	-18.6	-16.5	-17.4
Feb 5	-16.9	-17.3	-18.3	-18.9	-19	-18.7	-18.2	-18.1	-17.4	-16.2	-15.1	-14	-13	-11.7	-10.7	-9.3	-7.3	-7.1	-6.7	-7.6	-9	-7.2	-6.8	-6.7	-19.0	-6.7	-13.0
Feb 6	-7.2	-5.4	-0.8	2.3	2.5	2.7	3.4	3.8	3.9	4.2	4.9	5	5.1	5.2	5.8	6.2	6.1	5.5	5.4	5.9	6.2	5.9	5.8	5	-7.2	6.2	3.6
Feb 7	4.9	4.8	5.1	5.2	5.3	5.2	6.2	5	4.2	4.5	4.8	5.2	5.2	5.5	5.4	5.4	5.4	4.9	4.6	4.2	4.2	4.6	4.4	3.7	3.7	6.2	**4.9**
Feb 8	3	2.8	2.8	2.3	3.5	3	2.7	2.8	2.1	1.5	2	2.8	3.8	4.6	5	4.7	4.2	3.2	2.4	2.1	1.8	2.6	2.6	2.6	1.5	5.0	3.0
Feb 9	2.6	2.4	1.8	1.2	1.4	0.9	0.8	0.4	0.1	1.5	1.7	2.3	4.4	5.5	5.3	5.7	6.3	6	7.4	7.6	7.6	6.7	7.4	**7.8**	0.1	**7.8**	4.0
Feb 10	7.4	6.9	6.8	6.2	5.8	5.7	5.4	5.4	5	4	2	1	1.3	1.9	2	1.8	2.1	1.9	1.3	1	0.2	0.4	0	**P**	0.0	7.4	3.3
Feb 11	**P**	**P**	**P**	-9.8	-11.9	-13.1	-14.5	-15.5	-16.3	-14.9	-12.9	-9.9	-6.8	-5.2	-3.7	-2.8	-3.7	-4.1	-4.5	-5.4	-6.6	-7.4	-9.7	-10.8	-16.3	-2.8	-9.0
Feb 12	-11.7	-12	-12.8	-13.5	-14.1	-14.5	-15.3	-14.9	-11.9	-8.5	-5.8	-2.8	-1.1	0	1.1	1.8	3.2	3.8	3.3	2.9	3	1.8	1.7	3.2	-15.3	3.8	-4.7
Feb 13	3.2	2.3	0.6	0.1	0	0.1	-0.3	-1.9	-4.8	-6.4	-5.6	-4.7	-2.7	-0.9	-0.6	-1.5	-2.2	-3.1	-4.2	-4.4	-4.9	-5.4	-6.1	-6.6	-6.6	3.2	-2.5
Feb 14	-6.9	-7.1	-7.7	-7.9	-7.7	-8.1	-10.1	-10.5	-11	-9.8	-7.6	-6	-4.1	-2.5	-3	-4.7	-5.4	-6.1	-7	-8.7	-9	-8.2	-7.4	-6.7	-11.0	-2.5	-7.2
Feb 15	-7.3	-9.3	-11	-12.3	-12.9	-14.3	-16.5	-17.9	-18.8	-19.2	-18.4	-17.6	-16.3	-14.8	-13.9	-14	-14.7	-15.6	-16.8	-17.5	-18.2	-18.7	-18.7	-18.4	-19.2	-7.3	-15.5
Feb 16	-18.1	-17.7	-17.3	-17	-17.2	-18	-19.1	-20.3	-19.9	-19.5	-17.9	-16.4	-15	-13.1	-13.8	-14.3	-15	-14.9	-14.7	-14.5	-14.5	-13.6	-12.6	-11.4	-20.3	-11.4	-16.1
Feb 17	-10.1	-8.3	-7.1	-6.6	-5.9	-5.2	-6.2	-7	-7.7	-8.6	-8.7	-8.5	-7.7	-7.7	-7.1	-8.7	-9.9	-11.2	-12.8	-13.6	-14.2	-15.3	-16.6	-17.4	-17.4	-5.2	-9.7
Feb 18	-17.9	-18.3	-18.8	-19.9	-20.5	-20.7	-20.7	-20.6	-20.3	-19.7	-18.6	-17.6	-16.7	-15	-13.6	-12.4	-11.6	-11.7	-11.6	-11	-10.2	-9	-7.2	-6.2	-20.7	-6.2	-15.4
Feb 19	-6.4	-5.9	-6	-5.8	-4.9	-4.4	-5.8	-9.4	-12.7	-15.1	-16.7	-17	-16.3	-15.5	-15	-14.8	-15.4	-16.6	-17.6	-18.4	-19.3	-20	-20.5	-20.7	-20.7	-4.4	-13.3
Feb 20	-20.9	-21.2	-21.8	-22	-22	-22.1	-22.2	-22.3	-22.6	-22.8	-22.1	-21.5	-21.1	-20.8	-21.1	-21.5	-22.4	-23.2	-24.4	-26.9	-29.2	-30.4	-31.3	-32.1	-32.1	-20.8	-23.7
Feb 21	-32.7	-33.2	-33.7	-34.2	-34.6	**-34.8**	-34.6	-34.4	-33.1	-27.9	-25	-24.3	-23.4	-22.6	-21.6	-20.6	-20	-20.2	-21.8	-23.1	-25.1	-26.9	-28.7	-29.6	**-34.8**	-20.0	-27.8
Feb 22	-29.9	-30.9	-30.9	-31.4	-31.8	-32.1	-31.7	-32.2	-30.1	-26.2	-22.8	-21.7	-21.1	-18.9	-18	-17.5	-17.7	-18.3	-19.6	-20.5	-20.6	-19.9	-19.3	-18.1	-32.2	-17.5	-24.2
Feb 23	-17.2	-16.8	-16.7	-16.7	-16.6	-16.1	-15.6	-15.1	-14	-13.3	-12.1	-11.3	-10.7	-9.4	-8.6	-7.9	-7.1	-7.5	-8.2	-8.2	-7.9	-7.9	-7.6	-6.4	-17.2	-6.4	-11.6
Feb 24	-5.8	-6.6	-7.3	-7.9	-8.2	-8.8	-8.5	-8.1	-7.9	-7.3	-7.4	-6.7	-6.3	-5.6	-5.5	-4.8	-4	-4.7	-6.7	-8.7	-10.3	-10.9	-11.2	-12.1	-12.1	-4.0	-7.6
Feb 25	-12	-11.5	-11.9	-12.1	-10.5	-10.9	-10.1	-10	-9.3	-8.2	-7.4	-6.2	-4.8	-2.5	-1.4	-0.7	-0.7	-1.2	-2.5	-4.2	-5.1	-6	-6.4	-7.3	-12.1	-0.7	-6.8
Feb 26	-7.4	-6.3	-6.7	-8.3	-9.4	-9.1	-8.4	-8	-8.3	-6.2	-3.7	-2.7	-1	-0.6	-0.8	-0.7	-1	-2.4	-4.1	-5.6	-6.8	-7.5	-8.1	-8.7	-9.4	-0.6	-5.5
Feb 27	-9.4	-10.1	-10.9	-11.6	-12.1	-12.3	-12.5	-12.7	-12.7	-12.6	-12.8	-12.7	-12.4	-11.5	-10.2	-10.5	-10.9	-11	-11.4	-11.6	-11.7	-12	-12.3	-12.3	-12.8	-9.4	-11.7
Feb 28	-12.9	-14.1	-15	-16	-15.5	-14.5	-13.9	-14.1	-13.9	-13	-12.3	-11.3	-10.7	-9.9	-9.2	-9.1	-9.2	-9.4	-10.4	-11	-11.5	-11.7	-11.7	-11.5	-16.0	-9.1	-12.2
Diurnal Maximum	7.4	6.9	6.8	6.2	5.8	5.7	6.2	5.4	5.0	4.5	4.9	5.2	5.2	5.5	5.8	6.2	6.3	6.0	7.4	7.6	7.6	6.7	7.4	7.8			
Diurnal Average	-12.1	-12.3	-12.4	-12.6	-12.7	-12.8	-13.0	-13.4	-13.4	-12.6	-11.6	-10.7	-9.7	-8.6	-8.1	-8.0	-8.1	-8.6	-9.3	-10.0	-10.6	-10.8	-11.0	-11.5			

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 - 842b Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

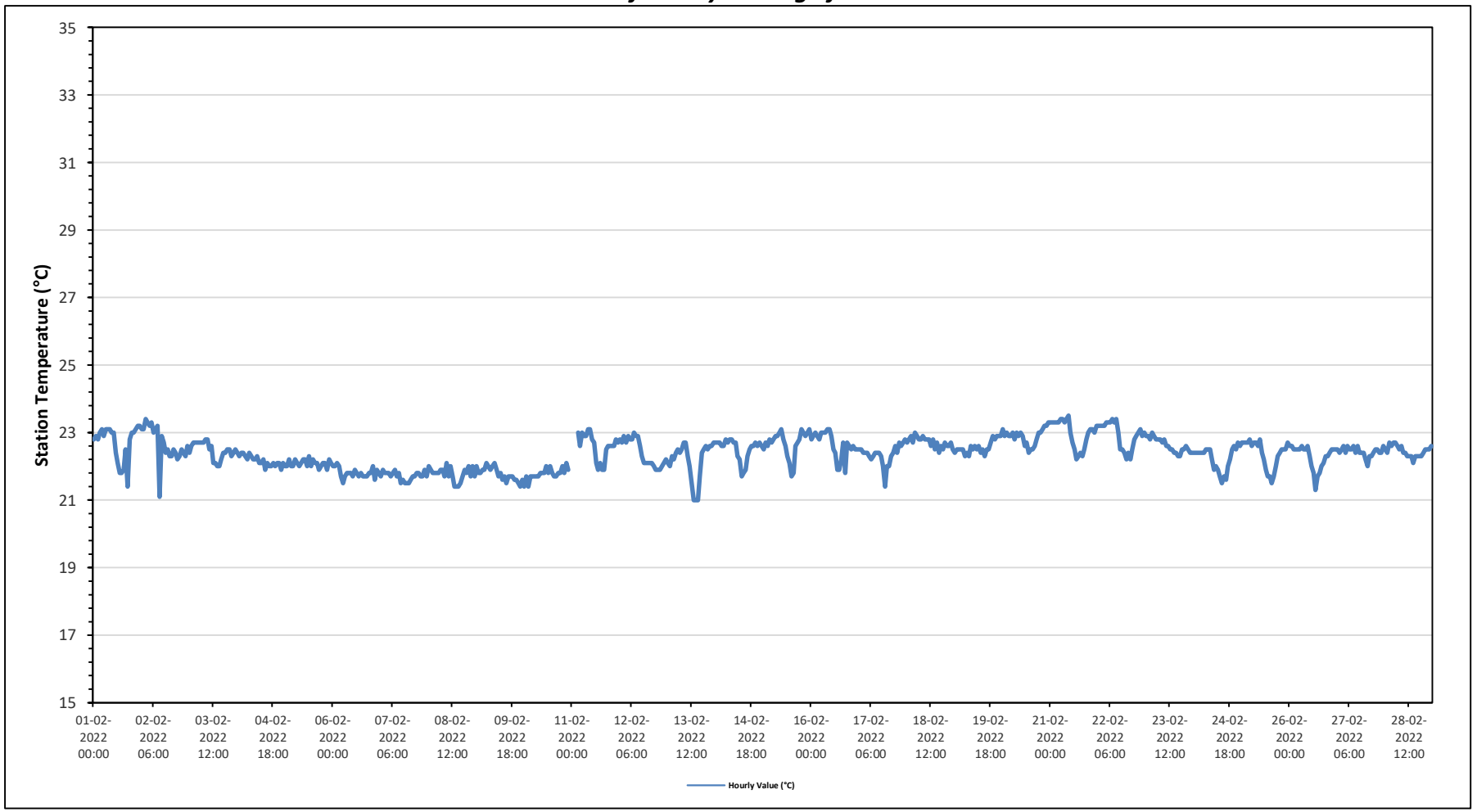
Maximum Hourly Value:	23.5	°C	on February 21 at hour 9	Hours in Service:	672
Maximum Daily Value:	23.0	°C	on February 21	Hours of Data:	668
Minimum Hourly Value:	21.0	°C	on February 13 at hour 13	Hours of Missing Data:	4
Minimum Daily Value:	21.7	°C	on February 7	Hours of Calibration:	0
Monthly Average:	22.4	°C		Operational Uptime:	99.4

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	22.8	22.9	22.8	23.0	23.1	22.9	23.1	23.1	23.1	23.0	23.0	22.4	22.1	21.8	21.8	21.9	22.5	21.4	22.8	23.0	23.0	23.1	23.2	23.2	21.4	23.2	22.7
Feb 2	23.1	23.1	23.4	23.3	23.2	23.3	23.0	23.1	23.2	21.1	22.9	22.7	22.4	22.5	22.3	22.3	22.5	22.4	22.2	22.3	22.5	22.4	22.3	22.6	21.1	23.4	22.7
Feb 3	22.4	22.6	22.7	22.7	22.7	22.7	22.7	22.7	22.8	22.8	22.5	22.6	22.1	22.1	22.0	22.0	22.2	22.4	22.4	22.5	22.5	22.3	22.4	22.5	22.0	22.8	22.5
Feb 4	22.4	22.3	22.4	22.4	22.3	22.2	22.4	22.3	22.2	22.2	22.3	22.1	22.1	22.2	21.9	22.1	22.0	22.0	22.1	22.0	22.1	22.1	21.9	22.1	21.9	22.4	22.2
Feb 5	22.0	22.0	22.2	22.0	22.0	22.2	22.1	22.0	22.1	22.2	22.2	22.0	22.3	22.0	22.2	22.1	22.1	21.9	22.0	22.1	22.1	21.9	22.2	22.1	21.9	22.3	22.1
Feb 6	22.0	22.0	22.1	22.0	21.7	21.5	21.7	21.8	21.8	21.8	21.7	21.9	21.8	21.7	21.8	21.7	21.7	21.7	21.8	21.8	22.0	21.6	21.9	21.8	21.5	22.1	21.8
Feb 7	21.7	21.9	21.8	21.8	21.8	21.7	21.8	21.9	21.7	21.8	21.5	21.6	21.5	21.5	21.5	21.6	21.7	21.7	21.8	21.8	21.7	21.7	21.9	21.7	21.5	21.9	21.7
Feb 8	22.0	21.9	21.8	21.8	21.8	21.8	21.9	21.9	21.7	22.1	21.7	22.0	21.7	21.4	21.4	21.4	21.5	21.7	21.9	21.8	22.0	21.7	22.0	21.7	21.4	22.1	21.8
Feb 9	22.0	21.8	21.8	21.9	21.9	22.1	22.0	21.9	22.0	22.1	21.9	21.7	21.8	21.6	21.7	21.5	21.7	21.7	21.7	21.6	21.6	21.5	21.4	21.6	21.4	22.1	21.8
Feb 10	21.4	21.7	21.4	21.7	21.7	21.7	21.7	21.7	21.8	21.8	21.8	22.0	21.8	22.0	21.8	21.7	21.7	21.8	21.8	22.0	21.8	22.1	21.9	P	21.4	22.1	21.8
Feb 11	P	P	P	23.0	22.6	23.0	22.9	22.9	23.1	23.1	22.8	22.7	22.1	21.9	22.1	21.9	21.9	22.5	22.6	22.6	22.6	22.6	22.8	22.7	21.9	23.1	22.6
Feb 12	22.8	22.7	22.9	22.7	22.9	22.8	22.8	23.0	22.9	22.9	22.6	22.3	22.1	22.1	22.1	22.1	22.1	22.0	21.9	21.9	21.9	22.0	22.1	22.2	21.9	23.0	22.4
Feb 13	22.1	22.0	22.3	22.2	22.4	22.5	22.4	22.5	22.7	22.7	22.3	22.0	21.5	**21.0**	**21.0**	**21.0**	21.7	22.4	22.5	22.6	22.5	22.6	22.6	22.7	**21.0**	22.7	22.2
Feb 14	22.7	22.7	22.7	22.6	22.6	22.8	22.7	22.8	22.8	22.7	22.7	22.3	22.2	21.7	21.8	21.9	22.3	22.5	22.6	22.6	22.7	22.6	22.7	22.6	21.7	22.8	22.5
Feb 15	22.5	22.7	22.6	22.8	22.7	22.8	22.9	22.9	23.0	23.1	22.8	22.6	22.3	22.1	21.7	21.8	22.6	22.7	22.8	23.1	23.0	22.9	23.0	23.1	21.7	23.1	22.7
Feb 16	22.8	22.9	23.0	22.9	22.8	23.0	23.0	23.0	23.1	23.1	22.9	22.5	22.4	21.9	21.9	22.2	22.7	21.8	22.7	22.6	22.5	22.6	22.5	22.5	21.8	23.1	22.6
Feb 17	22.5	22.5	22.4	22.4	22.4	22.3	22.2	22.3	22.4	22.4	22.4	22.3	22.0	21.4	22.0	22.0	22.3	22.4	22.6	22.4	22.7	22.6	22.7	22.8	21.4	22.8	22.4
Feb 18	22.7	22.8	22.9	22.7	23.0	22.9	22.8	22.8	22.9	22.8	22.8	22.8	22.6	22.8	22.5	22.7	22.4	22.6	22.5	22.7	22.6	22.6	22.7	22.5	22.4	23.0	22.7
Feb 19	22.4	22.5	22.5	22.5	22.5	22.3	22.4	22.3	22.6	22.5	22.6	22.5	22.6	22.4	22.5	22.3	22.5	22.5	22.7	22.9	22.8	22.9	22.9	22.9	22.3	22.9	22.6
Feb 20	23.1	22.9	23.0	22.9	22.9	23.0	22.8	23.0	22.9	23.0	22.9	22.6	22.7	22.4	22.5	22.5	22.6	22.8	23.0	23.0	23.1	23.2	23.2	23.3	22.4	23.3	22.9
Feb 21	23.3	23.3	23.3	23.3	23.3	23.4	23.4	23.3	23.4	**23.5**	23.0	22.7	22.5	22.2	22.3	22.4	22.3	22.5	22.8	23.0	23.1	23.1	23.0	23.2	22.2	**23.5**	**23.0**
Feb 22	23.2	23.2	23.2	23.2	23.3	23.3	23.3	23.4	23.3	23.4	23.0	22.5	22.5	22.4	22.2	22.4	22.2	22.5	22.8	22.9	23.0	23.1	22.9	23.0	22.2	23.4	22.9
Feb 23	22.9	22.9	22.8	23.0	22.9	22.8	22.8	22.8	22.7	22.8	22.6	22.6	22.5	22.5	22.4	22.4	22.3	22.3	22.5	22.5	22.6	22.5	22.4	22.4	22.3	23.0	22.6
Feb 24	22.4	22.4	22.4	22.4	22.4	22.4	22.5	22.5	22.5	22.2	21.9	22.0	21.9	21.7	21.5	21.7	21.6	22.0	22.2	22.5	22.6	22.5	22.7	22.6	21.5	22.7	22.2
Feb 25	22.7	22.7	22.7	22.7	22.8	22.6	22.7	22.7	22.6	22.8	22.4	22.2	21.9	21.7	21.7	21.5	21.7	22.0	22.3	22.4	22.5	22.5	22.5	22.7	21.5	22.8	22.4
Feb 26	22.6	22.6	22.5	22.5	22.5	22.5	22.6	22.5	22.5	22.6	22.3	22.0	21.8	21.3	21.7	21.8	22.0	22.1	22.3	22.3	22.4	22.5	22.5	22.5	21.3	22.6	22.3
Feb 27	22.5	22.4	22.5	22.6	22.4	22.6	22.5	22.5	22.6	22.4	22.6	22.4	22.4	22.4	22.2	22.0	22.3	22.3	22.4	22.5	22.5	22.4	22.4	22.6	22.0	22.6	22.4
Feb 28	22.5	22.4	22.7	22.6	22.7	22.7	22.6	22.5	22.6	22.4	22.4	22.3	22.3	22.3	22.1	22.3	22.3	22.3	22.3	22.4	22.5	22.5	22.5	22.6	22.1	22.7	22.5
Diurnal Maximum	23.3	23.3	23.4	23.3	23.3	23.4	23.4	23.4	23.4	23.5	23.0	22.8	22.7	22.8	22.5	22.7	22.7	22.8	23.0	23.1	23.1	23.2	23.2	23.3			
Diurnal Average	22.5	22.5	22.5	22.6	22.5	22.6	22.6	22.6	22.6	22.5	22.4	22.3	22.1	22.0	22.0	22.0	22.1	22.2	22.4	22.4	22.5	22.4	22.5	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 - 842b Station



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2022

Summary of Hourly Averages

PRECIPITATION in mm

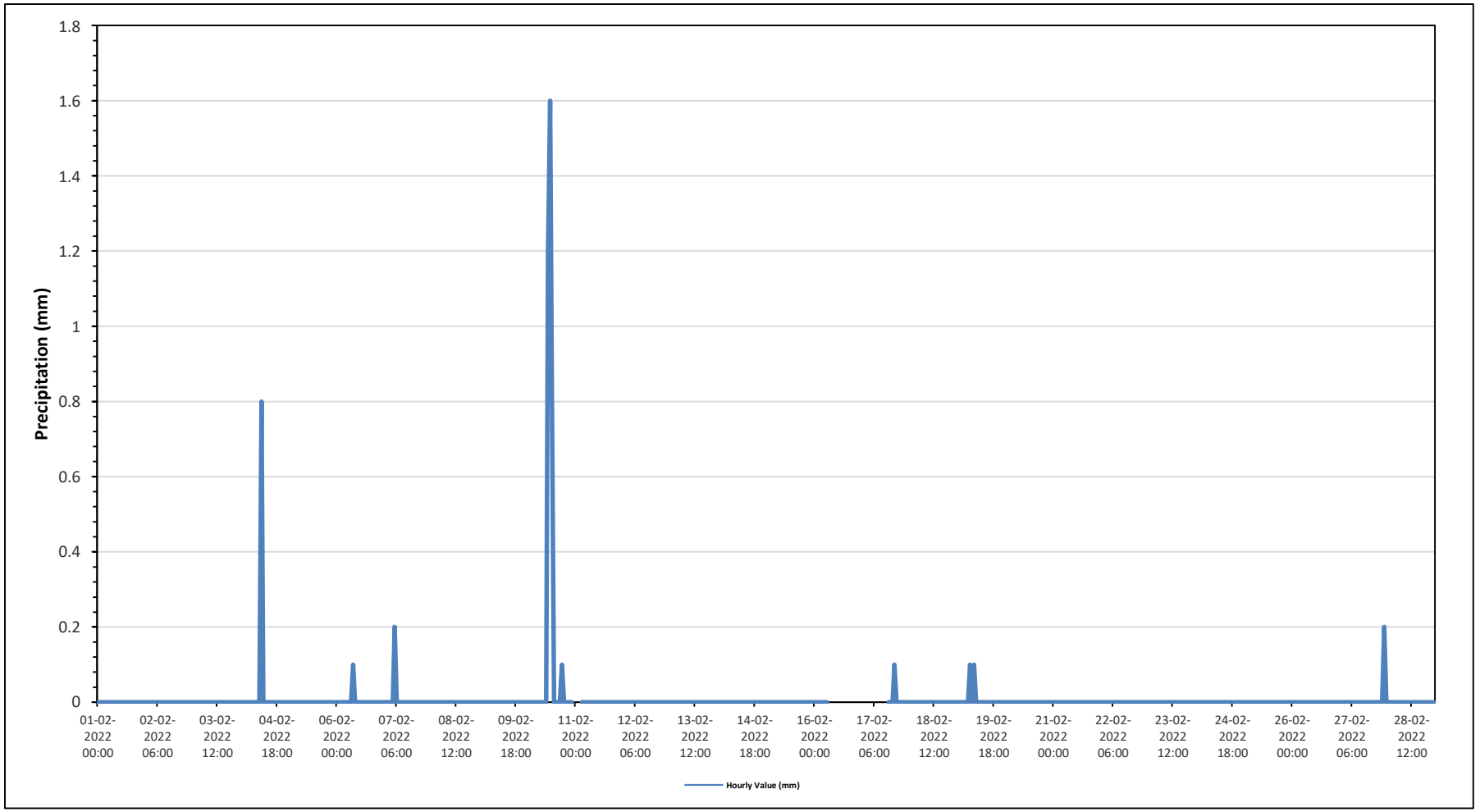
Maximum Hourly Value:	1.6	mm	on February 10 at hour 11	Hours in Service:	672
Maximum Daily Value:	3.7	mm	on February 10	Hours of Data:	638
Minimum Hourly Value:	0.0	mm	on February 1 at hour 0	Hours of Missing Data:	34
Minimum Daily Value:	0.0	mm	on February 1	Hours of Calibration:	0
Monthly Total:	5.3	mm		Operational Uptime:	94.9

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	Total
Feb 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 4	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.8	0.8
Feb 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 6	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Feb 7	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	0.2
Feb 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 10	0	0	0	0	0	0	0	0	0	0	1.2	**1.6**	0.8	0	0	0	0	0.1	0	0	0	0	0	**P**	0.0	**1.6**	**3.7**
Feb 11	**P**	**P**	**P**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 16	0	0	0	0	0	0	0	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	0.0	0.0	-
Feb 17	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**X**	**NRM**	0	0	0	0.1	0	0	0	0	0	0	0	0.0	0.1	-
Feb 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 19	0	0	0	0	0	0	0.1	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.2
Feb 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0.0	0.2	0.2
Feb 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.1	0.0	1.2	1.6	0.8	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.0			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

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



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

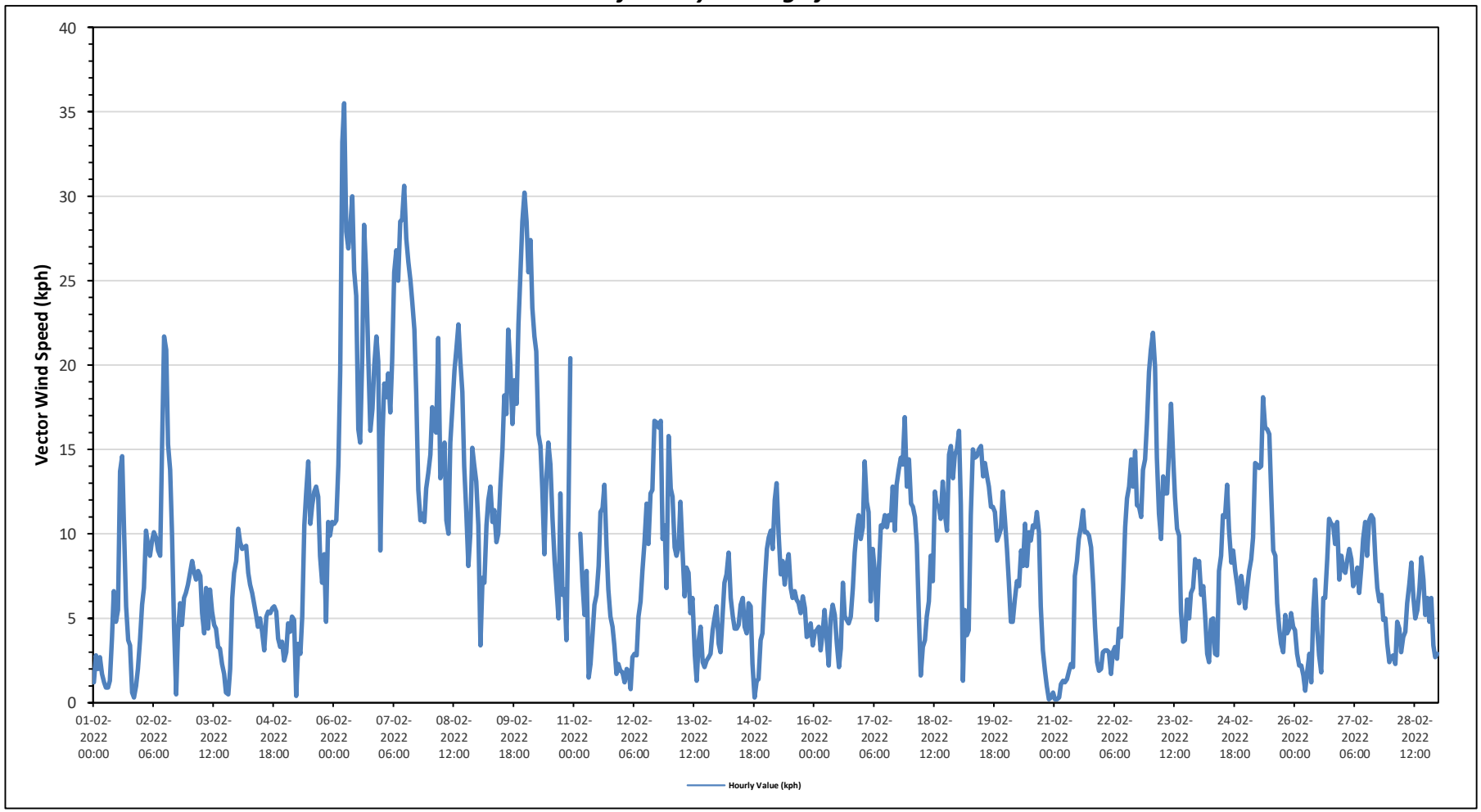
Maximum Hourly Value:	35.5	kph	on February 6 at hour 5	Hours in Service:	672
Maximum Daily Value:	20.4	kph	on February 6	Hours of Data:	668
Minimum Hourly Value:	0.2	kph	on February 20 at hour 21	Hours of Missing Data:	4
Minimum Daily Value:	1.6	kph	on February 16	Hours of Calibration:	0
Monthly Average:	2.4	kph		Operational Uptime:	99.4

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			
Feb 1	1.2	2.8	2.0	2.7	1.7	1.2	0.9	0.9	1.3	3.8	6.6	4.8	5.5	13.7	14.6	10.3	5.7	3.7	3.4	0.6	0.3	1.0	2.0	3.7	0.3	14.6	2.5
Feb 2	5.8	6.8	10.2	9.4	8.7	9.6	10.1	9.8	9.0	8.7	15.0	21.7	20.9	15.3	13.8	10.1	4.5	0.5	4.2	5.9	4.6	6.2	6.5	7.0	0.5	21.7	6.3
Feb 3	7.7	8.4	7.7	7.3	7.8	7.5	5.3	4.1	6.8	4.4	6.7	5.4	4.6	4.4	3.3	3.2	2.3	1.7	0.6	0.5	2.0	6.2	7.7	8.4	0.5	8.4	3.8
Feb 4	10.3	9.5	9.1	9.2	9.3	7.7	7.0	6.5	5.9	5.2	4.5	5.0	4.2	3.1	5.1	5.4	5.3	5.6	5.7	5.4	3.8	3.3	3.6	2.5	2.5	10.3	5.3
Feb 5	3.0	4.7	4.2	5.1	4.9	0.4	3.5	2.9	5.1	10.5	12.4	14.3	10.6	11.7	12.5	12.8	12.2	8.7	7.1	8.8	4.8	10.7	9.9	10.7	0.4	14.3	6.2
Feb 6	10.6	10.8	14.1	19.7	33.2	**35.5**	27.9	26.9	28.1	30.0	25.6	24.1	16.2	15.4	20.5	28.3	25.4	20.5	16.1	17.4	20.0	21.7	20.2	9.0	9.0	**35.5**	**20.4**
Feb 7	15.7	18.9	18.1	19.5	17.2	20.2	25.5	26.8	25.0	28.5	28.6	30.6	27.5	26.1	25.0	23.7	22.1	18.3	12.6	10.8	11.2	10.7	12.7	13.6	10.7	30.6	18.5
Feb 8	14.7	17.5	16.2	16.0	21.6	13.3	13.8	15.4	10.8	10.0	15.4	17.5	19.7	20.9	22.4	20.3	18.4	14.0	11.3	8.1	9.9	15.1	14.1	13.1	8.1	22.4	14.8
Feb 9	10.5	3.4	7.4	7.1	10.5	12.0	12.8	10.7	11.4	9.5	10.0	12.8	15.0	18.2	17.1	22.1	20.0	16.5	19.1	17.7	22.4	25.6	28.5	30.2	3.4	30.2	14.0
Feb 10	28.5	25.5	27.4	23.4	21.7	20.8	15.9	15.2	12.7	8.8	13.1	15.4	14.1	10.9	8.4	6.8	5.0	12.4	6.4	6.7	3.7	11.5	20.4	**P**	3.7	28.5	12.8
Feb 11	**P**	**P**	**P**	10.0	7.2	5.2	7.8	1.5	2.3	4.1	5.8	6.4	8.1	11.3	11.5	12.9	9.3	6.7	5.1	4.5	3.4	1.7	2.3	1.9	1.5	12.9	2.7
Feb 12	1.8	1.2	2.0	1.9	0.8	2.7	2.9	2.8	5.1	6.0	7.8	9.5	11.8	9.4	12.4	12.6	16.7	16.6	16.3	16.7	9.7	10.5	6.8	15.8	0.8	16.7	3.8
Feb 13	12.7	12.2	9.2	8.7	9.2	11.9	9.0	6.3	8.0	7.7	5.3	6.2	2.8	1.3	3.7	4.5	2.4	2.1	2.5	2.7	2.9	4.3	5.0	5.7	1.3	12.7	3.2
Feb 14	3.5	3.0	5.2	7.1	7.6	8.9	6.2	5.1	4.4	4.4	4.6	5.8	6.2	4.5	4.1	5.9	5.7	2.3	0.3	1.3	1.4	3.7	4.1	7.1	0.3	8.9	2.6
Feb 15	9.1	9.8	10.2	9.1	12.0	13.0	9.9	7.6	8.4	7.0	8.1	8.8	6.8	6.2	6.6	6.1	5.9	5.3	6.3	5.6	3.9	4.0	4.7	3.4	3.4	13.0	6.8
Feb 16	4.2	4.3	4.5	3.1	4.2	5.5	3.8	2.2	4.9	5.8	5.2	3.5	2.1	3.2	7.1	5.1	4.9	4.7	5.1	6.8	8.9	10.3	11.1	9.7	2.1	11.1	**1.6**
Feb 17	10.4	14.3	11.9	11.3	6.0	9.1	7.7	4.9	7.8	10.5	10.4	11.1	10.4	11.1	10.8	12.8	10.2	12.9	13.8	14.5	14.1	16.9	12.8	14.4	4.9	16.9	6.1
Feb 18	11.8	11.6	11.0	9.4	5.1	1.6	3.3	3.7	5.1	6.0	8.7	7.2	12.5	11.7	11.6	10.9	13.1	11.2	10.2	14.7	15.2	13.3	14.7	15.0	1.6	15.2	5.1
Feb 19	16.1	11.7	1.3	5.5	4.0	4.3	11.1	15.0	14.5	14.6	15.0	15.2	13.4	14.2	13.4	12.8	11.6	11.6	11.3	9.6	9.9	10.3	12.5	10.9	1.3	16.1	8.3
Feb 20	9.1	7.2	4.8	4.8	6.1	7.2	6.9	9.0	8.1	10.6	8.1	10.1	9.6	10.5	10.4	11.3	10.1	5.7	3.1	1.9	1.0	**0.2**	0.3	0.6	**0.2**	11.3	6.2
Feb 21	**0.2**	**0.2**	0.3	1.1	1.3	1.2	1.4	1.9	2.3	2.1	7.5	8.4	9.7	10.4	11.4	10.1	10.1	9.9	9.2	7.0	4.5	2.4	1.9	2.0	**0.2**	11.4	3.8
Feb 22	3.0	3.1	3.1	3.0	1.7	3.0	3.3	2.6	4.4	3.9	6.8	10.4	12.1	12.8	14.4	12.8	14.9	11.7	11.6	11.0	13.8	14.4	16.5	19.6	1.7	19.6	7.4
Feb 23	20.9	21.9	19.9	14.5	11.2	9.7	13.4	12.4	12.4	15.2	17.7	14.6	12.2	10.3	9.9	5.4	3.6	3.7	6.1	5.0	6.5	6.8	8.5	8.0	3.6	21.9	9.5
Feb 24	8.4	6.4	6.9	5.2	2.9	2.4	4.9	5.0	2.9	2.8	7.8	8.7	11.1	11.0	12.9	10.3	8.3	9.0	7.8	6.9	5.9	7.5	6.7	5.6	2.4	12.9	4.0
Feb 25	6.7	7.8	8.5	9.8	14.2	14.1	13.9	14.0	18.1	16.3	16.2	15.9	12.5	9.0	8.7	5.9	4.4	3.5	3.0	5.2	4.1	4.4	5.3	4.5	3.0	18.1	8.7
Feb 26	4.3	2.9	2.2	2.2	1.6	0.7	1.9	2.9	1.2	5.5	7.3	4.3	2.8	1.8	6.2	6.2	8.5	10.9	10.6	10.5	9.4	10.7	7.3	8.7	0.7	10.9	4.2
Feb 27	7.9	7.7	8.5	9.1	8.5	6.9	7.2	8.0	6.5	8.0	9.7	10.7	8.7	10.8	11.1	10.9	8.4	6.8	6.0	6.4	4.9	5.0	3.5	2.4	2.4	11.1	7.6
Feb 28	2.7	2.8	2.3	4.8	4.4	3.0	3.9	4.2	5.9	7.0	8.3	6.2	5.0	5.5	6.8	8.6	7.3	5.2	6.2	4.8	6.2	3.4	2.7	2.9	2.3	8.6	4.4
Diurnal Maximum	29	26	27	23	33	36	28	27	28	30	29	31	28	26	25	28	25	21	19	18	22	26	29	30			
Diurnal Average	8.9	8.8	8.5	8.6	8.7	8.5	8.6	8.2	8.5	9.2	10.7	11.2	10.6	10.5	11.3	11.0	9.9	8.6	7.9	7.8	7.4	8.6	9.0	8.8			

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.

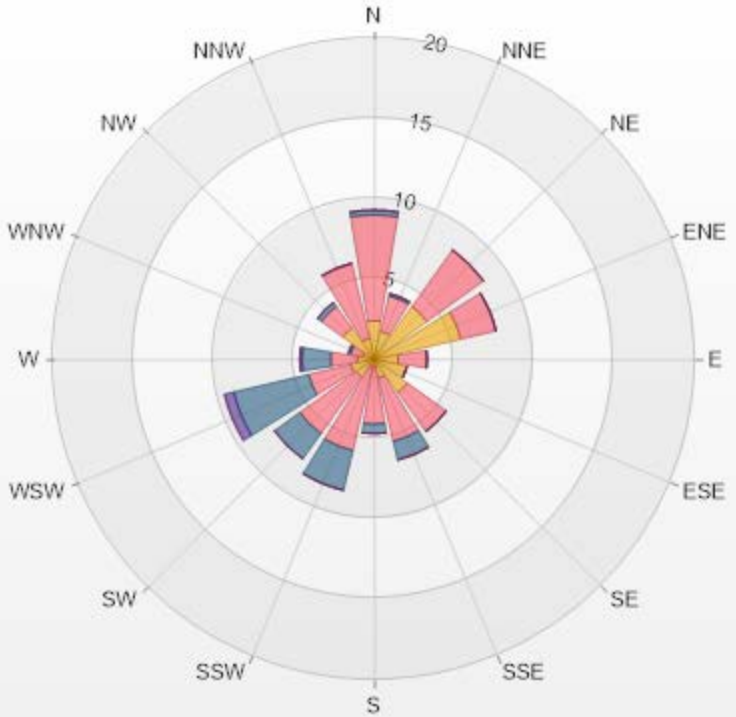
Timeseries Chart of Hourly Average for VWS - 842b Station



Wind: PRAMP 842b Monitor: WDS [KPH] Monthly: 02-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 5.99% Valid Data: 99.40%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	2.4	6.59	0.3	0	0	9.29
NNE	1.8	2.25	0.15	0	0	4.2
NE	4.04	4.34	0	0	0	8.38
ENE	5.54	2.25	0	0	0	7.79
E	1.5	1.8	0	0	0	3.3
ESE	2.1	0	0	0	0	2.1
SE	2.54	2.99	0	0	0	5.53
SSE	1.2	4.04	1.2	0	0	6.44
S	0.45	3.59	0.6	0	0	4.64
SSW	0.45	5.39	2.54	0	0	8.38
SW	1.35	4.34	1.95	0	0	7.64
WSW	1.5	2.69	4.79	0.6	0	9.58
W	1.05	1.65	1.8	0.15	0	4.65
WNW	0.75	0.75	0.15	0	0	1.65
NW	2.4	1.65	0.3	0	0	4.35
NNW	1.35	4.79	0	0	0	6.14
Summary	30.42	49.11	13.78	0.75	0	94.06

PRAMP 842b 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 5.99% Calm Wind Avg Speed: 1.01(KPH)



% Icon Classes (KPH)	30	1.8-6.0	49	6.0-15.0	14	15.0-29.0	1	29.0-39.0	0	>39.0

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PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average: 235 (SW) degree

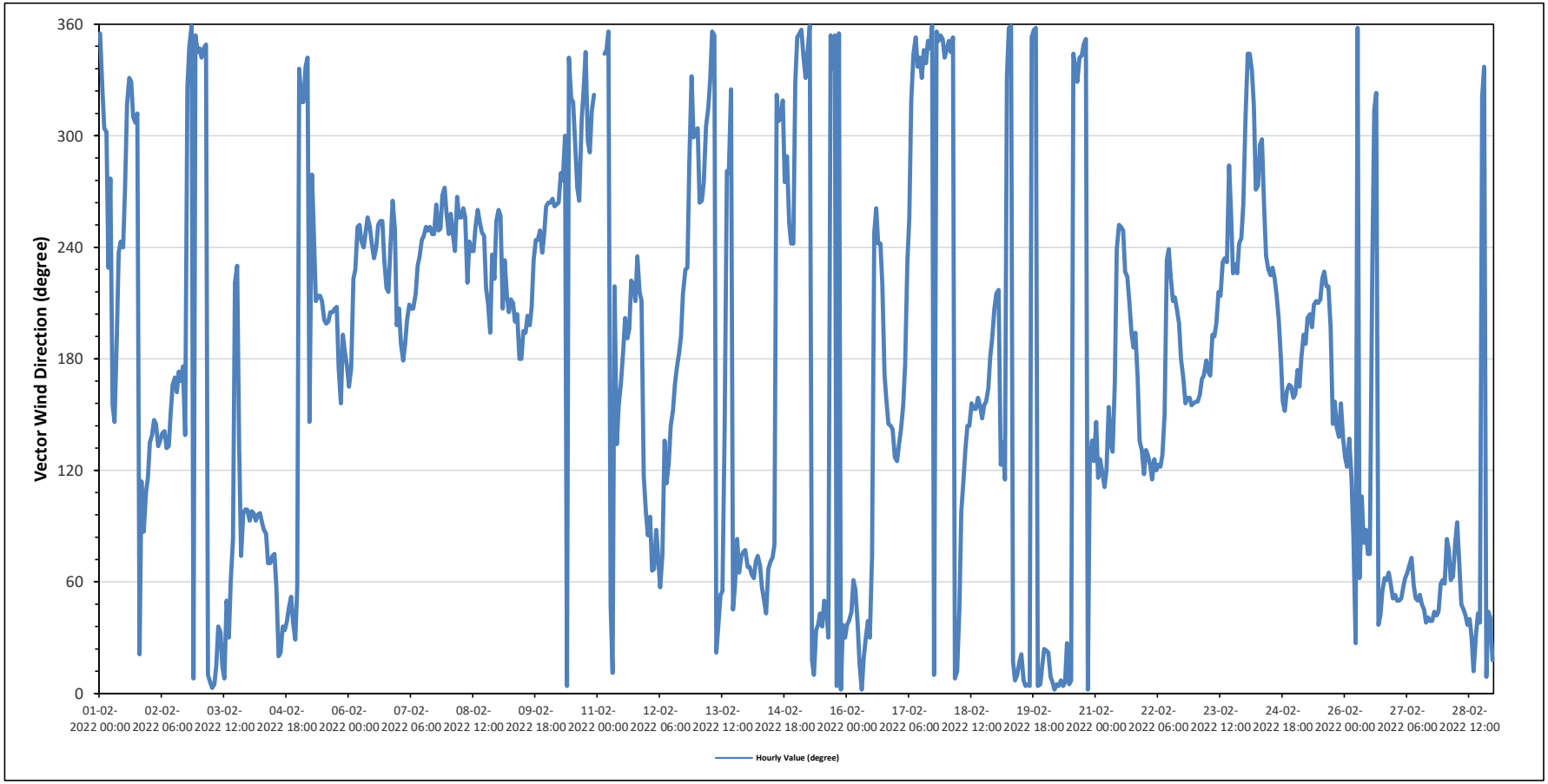
Hours in Service: 672
Hours of Data: 668
Hours of Missing Data: 4
Hours of Calibration: 0
Operational Uptime: 99.4

Day	Hourly Period Starting at (MST)																						Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Feb 1	N	NW	WNW	WNW	SW	W	SSE	SE	S	SW	WSW	WSW	W	NW	NNW	NNW	NW	NW	NW	NNE	ESE	E	ESE	ESE	303	WNW
Feb 2	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	S	SSE	S	SE	NW	NNW	N	N	N	NNW	149	SSE
Feb 3	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NE	NNE	NNE	N	NE	NNE	ENE	E	SW	SW	SE	ENE	E	E	E	25	NNE
Feb 4	E	E	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	NNE	NNE	NE	NE	NE	NE	NE	NE	NNE	ENE	72	ENE
Feb 5	NNW	NW	NW	NNW	NNW	SE	W	WSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSE	S	S	S	208	SSW
Feb 6	SSE	S	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	W	WSW	SSW	241	WSW
Feb 7	SSW	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	W	W	WSW	230	SW
Feb 8	WSW	WSW	WSW	SW	W	WSW	WSW	W	WSW	SW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SW	SW	WSW	245	WSW
Feb 9	WSW	WSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	SW	WSW	W	223	SW
Feb 10	W	W	W	W	W	W	W	W	WNW	N	NNW	NW	NW	WNW	W	W	NW	NW	NNW	WNW	WNW	NW	NW	P	288	WNW
Feb 11	P	P	P	NNW	NNW	N	NE	NNE	SW	SE	SSE	SSE	S	SSW	S	SSW	SW	SW	SSW	SW	SW	SSW	ESE	E	200	SSW
Feb 12	E	E	ENE	ENE	E	ENE	ENE	ENE	SE	ESE	ESE	SE	SSE	SSE	S	S	S	SSW	SW	SW	WNW	NNW	WNW	WNW	197	SSW
Feb 13	WNW	W	W	W	WNW	NW	NNW	N	N	NNE	NE	NE	NE	SE	W	W	NW	NE	ENE	E	ENE	ENE	ENE	ENE	334	NNW
Feb 14	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	ENE	ENE	ENE	E	NW	NW	NW	NW	W	WNW	WSW	WSW	WSW	NNW	44	NE
Feb 15	N	N	N	NNW	NNW	NNW	N	NNE	N	NE	NE	NE	NE	NE	NE	NNE	N	NNW	N	N	N	N	NE	NNE	8	N
Feb 16	NE	NE	NE	ENE	NE	NE	NNE	N	NNE	NNE	NE	NNE	ENE	WSW	W	WSW	WSW	SW	S	SSE	SE	SE	SE	SE	106	ESE
Feb 17	SE	SE	SE	SSE	S	SW	WSW	NW	NNW	N	NNW	NNW	NNW	NNW	NNW	N	NNW	N	N	N	N	N	N	NNW	351	N
Feb 18	NNW	N	NNW	N	N	NNE	NE	E	ESE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	S	S	SSW	154	SSE
Feb 19	SSW	SW	ESE	SE	ESE	NNW	N	N	NNE	N	N	NNE	NNE	N	N	N	N	N	N	N	N	N	NNE	NNE	5	N
Feb 20	NNE	NNE	N	N	N	N	N	N	N	N	NNE	N	N	NNW	NNW	NNW	NNW	NNW	NNW	N	N	SE	SE	SE	360	N
Feb 21	SE	ESE	SE	ESE	ESE	ESE	SSE	SE	SE	SSE	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	S	SSW	SSE	SE	SE	ESE	210	SSW
Feb 22	SE	SE	ESE	ESE	SE	ESE	ESE	ESE	SE	SSE	SW	WSW	SW	SSW	SSW	SSW	SSW	S	SSE	SSE	SSE	SSE	SSE	SSE	177	S
Feb 23	SSE	SSE	SSE	SSE	S	S	S	S	S	S	SSW	SW	SSW	SW	SW	SW	WNW	WSW	SW	SW	SW	WSW	WSW	W	195	SSW
Feb 24	NW	NNW	NNW	NNW	NW	W	W	WNW	WNW	W	SW	SW	SW	SW	SW	SSW	SSW	S	SSE	SSE	SSE	SSE	SSE	SSE	223	SW
Feb 25	SSE	S	SSE	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SSW	SE	SSE	SE	SE	SSE	SE	195	SSW
Feb 26	SE	ESE	SE	ESE	E	NNE	N	ENE	ESE	E	E	ENE	ENE	SW	NW	NW	NE	NE	NE	ENE	ENE	ENE	ENE	NE	59	ENE
Feb 27	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	51	NE
Feb 28	ENE	E	ENE	ENE	ENE	E	E	ENE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NE	NE	NW	NNW	N	NE	NE	NNE	38	NE

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



peace river area monitoring program

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PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	35.5	kph	on February 6 at hour 5	Hours in Service:	672
Maximum Daily Value:	20.4	kph	on February 6	Hours of Data:	668
Minimum Hourly Value:	0.2	kph	on February 20 at hour 21	Hours of Missing Data:	4
Minimum Daily Value:	1.6	kph	on February 16	Hours of Calibration:	0
Monthly Average:	2.4	kph		Operational Uptime:	99.4

WIND DIRECTION

Monthly Average: 235 (SW) degree

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	1.2	2.8	2.0	2.7	1.7	1.2	0.9	0.9	1.3	3.8	6.6	4.8	5.5	13.7	14.6	10.3	5.7	3.7	3.4	0.6	0.3	1.0	2.0	3.7	0.3	14.6	2.5
	N	NW	WNW	WNW	SW	W	SSE	SE	S	SW	WSW	WSW	W	NW	NNW	NNW	NW	NW	NW	NNE	ESE	E	ESE	ESE			
Feb 2	5.8	6.8	10.2	9.4	8.7	9.6	10.1	9.8	9.0	8.7	15.0	21.7	20.9	15.3	13.8	10.1	4.5	0.5	4.2	5.9	4.6	6.2	6.5	7.0	0.5	21.7	6.3
	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	S	SSE	S	SE	NW	NNW	N	N	N	NNW			
Feb 3	7.7	8.4	7.7	7.3	7.8	7.5	5.3	4.1	6.8	4.4	6.7	5.4	4.6	4.4	3.3	3.2	2.3	1.7	0.6	0.5	2.0	6.2	7.7	8.4	0.5	8.4	3.8
	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NE	NNE	NNE	N	NE	NNE	ENE	E	SW	SW	SE	ENE	E	E	E			
Feb 4	10.3	9.5	9.1	9.2	9.3	7.7	7.0	6.5	5.9	5.2	4.5	5.0	4.2	3.1	5.1	5.4	5.3	5.6	5.7	5.4	3.8	3.3	3.6	2.5	2.5	10.3	5.3
	E	E	E	E	E	E	E	E	E	ENE	ENE	ENE	ENE	ENE	NNE	NNE	NE	NE	NE	NE	NE	NE	NNE	ENE			
Feb 5	3.0	4.7	4.2	5.1	4.9	0.4	3.5	2.9	5.1	10.5	12.4	14.3	10.6	11.7	12.5	12.8	12.2	8.7	7.1	8.8	4.8	10.7	9.9	10.7	0.4	14.3	6.2
	NNW	NW	NW	NNW	NNW	SE	W	WSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSE	S	S	S			
Feb 6	10.6	10.8	14.1	19.7	33.2	**35.5**	27.9	26.9	28.1	30.0	25.6	24.1	16.2	15.4	20.5	28.3	25.4	20.5	16.1	17.4	20.0	21.7	20.2	9.0	9.0	**35.5**	**20.4**
	SSE	S	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	W	WSW	SSW			
Feb 7	15.7	18.9	18.1	19.5	17.2	20.2	25.5	26.8	25.0	28.5	28.6	30.6	27.5	26.1	25.0	23.7	22.1	18.3	12.6	10.8	11.2	10.7	12.7	13.6	10.7	30.6	18.5
	SSW	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	W	W	WSW			
Feb 8	14.7	17.5	16.2	16.0	21.6	13.3	13.8	15.4	10.8	10.0	15.4	17.5	19.7	20.9	22.4	20.3	18.4	14.0	11.3	8.1	9.9	15.1	14.1	13.1	8.1	22.4	14.8
	WSW	WSW	WSW	SW	W	WSW	WSW	W	WSW	SW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SW	SW	WSW			
Feb 9	10.5	3.4	7.4	7.1	10.5	12.0	12.8	10.7	11.4	9.5	10.0	12.8	15.0	18.2	17.1	22.1	20.0	16.5	19.1	17.7	22.4	25.6	28.5	30.2	3.4	30.2	14.0
	WSW	WSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	SW	WSW	W			
Feb 10	28.5	25.5	27.4	23.4	21.7	20.8	15.9	15.2	12.7	8.8	13.1	15.4	14.1	10.9	8.4	6.8	5.0	12.4	6.4	6.7	3.7	11.5	20.4	**P**	3.7	28.5	12.8
	W	W	W	W	W	W	W	W	WNW	N	NNW	NW	NW	WNW	W	W	NW	NW	NNW	WNW	WNW	NW	NW	**P**			
Feb 11	**P**	**P**	**P**	10.0	7.2	5.2	7.8	1.5	2.3	4.1	5.8	6.4	8.1	11.3	11.5	12.9	9.3	6.7	5.1	4.5	3.4	1.7	2.3	1.9	1.5	12.9	2.7
	P	**P**	**P**	NNW	NNW	N	NE	NNE	SW	SE	SSE	SSE	S	SSW	S	SSW	SW	SW	SSW	SW	SW	SSW	ESE	E			
Feb 12	1.8	1.2	2.0	1.9	0.8	2.7	2.9	2.8	5.1	6.0	7.8	9.5	11.8	9.4	12.4	12.6	16.7	16.6	16.3	16.7	9.7	10.5	6.8	15.8	0.8	16.7	3.8
	E	E	ENE	ENE	E	ENE	ENE	ENE	SE	ESE	ESE	SE	SSE	SSE	S	S	S	SSW	SW	SW	WNW	NNW	WNW	WNW			
Feb 13	12.7	12.2	9.2	8.7	9.2	11.9	9.0	6.3	8.0	7.7	5.3	6.2	2.8	1.3	3.7	4.5	2.4	2.1	2.5	2.7	2.9	4.3	5.0	5.7	1.3	12.7	3.2
	WNW	W	W	W	WNW	NW	NNW	N	N	NNE	NE	NE	NE	SE	W	W	NW	NE	ENE	E	ENE	ENE	ENE	ENE			
Feb 14	3.5	3.0	5.2	7.1	7.6	8.9	6.2	5.1	4.4	4.4	4.6	5.8	6.2	4.5	4.1	5.9	5.7	2.3	0.3	1.3	1.4	3.7	4.1	7.1	0.3	8.9	2.6
	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	ENE	ENE	ENE	E	NW	NW	NW	NW	W	WNW	WSW	WSW	WSW	NNW			
Feb 15	9.1	9.8	10.2	9.1	12.0	13.0	9.9	7.6	8.4	7.0	8.1	8.8	6.8	6.2	6.6	6.1	5.9	5.3	6.3	5.6	3.9	4.0	4.7	3.4	3.4	13.0	6.8
	N	N	N	NNW	NNW	NNW	N	NNE	N	NE	NE	NE	NE	NE	NE	NNE	N	NNW	N	N	N	N	NE	NNE			
Feb 16	4.2	4.3	4.5	3.1	4.2	5.5	3.8	2.2	4.9	5.8	5.2	3.5	2.1	3.2	7.1	5.1	4.9	4.7	5.1	6.8	8.9	10.3	11.1	9.7	2.1	11.1	**1.6**
	NE	NE	NE	ENE	NE	NE	NNE	N	NNE	NNE	NE	NNE	ENE	WSW	W	WSW	WSW	SW	S	SSE	SE	SE	SE	SE			
Feb 17	10.4	14.3	11.9	11.3	6.0	9.1	7.7	4.9	7.8	10.5	10.4	11.1	10.4	11.1	10.8	12.8	10.2	12.9	13.8	14.5	14.1	16.9	12.8	14.4	4.9	16.9	6.1
	SE	SE	SE	SSE	S	SW	WSW	NW	NNW	N	NNW	NNW	NNW	NNW	NNW	N	NNW	N	N	N	N	N	N	NNW			
Feb 18	11.8	11.6	11.0	9.4	5.1	1.6	3.3	3.7	5.1	6.0	8.7	7.2	12.5	11.7	11.6	10.9	13.1	11.2	10.2	14.7	15.2	13.3	14.7	15.0	1.6	15.2	5.1
	NNW	N	NNW	N	N	NNE	NE	E	ESE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SE	SSE	SSE	SSE	S	S	SSW			
Feb 19	16.1	11.7	1.3	5.5	4.0	4.3	11.1	15.0	14.5	14.6	15.0	15.2	13.4	14.2	13.4	12.8	11.6	11.6	11.3	9.6	9.9	10.3	12.5	10.9	1.3	16.1	8.3
	SSW	SW	ESE	SE	ESE	NNW	N	N	NNE	N	N	NNE	NNE	N	N	N	N	N	N	N	N	N	NNE	NNE			
Feb 20	9.1	7.2	4.8	4.8	6.1	7.2	6.9	9.0	8.1	10.6	8.1	10.1	9.6	10.5	10.4	11.3	10.1	5.7	3.1	1.9	1.0	**0.2**	0.3	0.6	**0.2**	11.3	6.2
	NNE	NNE	N	N	N	N	N	N	N	N	NNE	N	N	NNW	NNW	NNW	NNW	NNW	NNW	N	N	SE	SE	SE			

peace river area monitoring program
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PEACE RIVER AREA MONITORING PROGRAM

842b Station - February 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	35.5	kph	on February 6 at hour 5	Hours in Service:	672
Maximum Daily Value:	20.4	kph	on February 6	Hours of Data:	668
Minimum Hourly Value:	0.2	kph	on February 20 at hour 21	Hours of Missing Data:	4
Minimum Daily Value:	1.6	kph	on February 16	Hours of Calibration:	0
Monthly Average:	2.4	kph		Operational Uptime:	99.4

WIND DIRECTION

Monthly Average: 235 (SW) degree

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 21	**0.2**	**0.2**	0.3	1.1	1.3	1.2	1.4	1.9	2.3	2.1	7.5	8.4	9.7	10.4	11.4	10.1	10.1	9.9	9.2	7.0	4.5	2.4	1.9	2.0	**0.2**	11.4	3.8
	SE	ESE	SE	ESE	ESE	ESE	SSE	SE	SE	SSE	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	S	SSW	SSE	SE	SE	ESE			
Feb 22	3.0	3.1	3.1	3.0	1.7	3.0	3.3	2.6	4.4	3.9	6.8	10.4	12.1	12.8	14.4	12.8	14.9	11.7	11.6	11.0	13.8	14.4	16.5	19.6	1.7	19.6	7.4
	SE	SE	ESE	ESE	SE	ESE	ESE	ESE	SE	SSE	SW	WSW	SW	SSW	SSW	SSW	SSW	S	SSE	SSE	SSE	SSE	SSE	SSE			
Feb 23	20.9	21.9	19.9	14.5	11.2	9.7	13.4	12.4	12.4	15.2	17.7	14.6	12.2	10.3	9.9	5.4	3.6	3.7	6.1	5.0	6.5	6.8	8.5	8.0	3.6	21.9	9.5
	SSE	SSE	SSE	SSE	S	S	S	S	S	S	SSW	SW	SSW	SW	SW	SW	WNW	WSW	SW	SW	SW	WSW	WSW	W			
Feb 24	8.4	6.4	6.9	5.2	2.9	2.4	4.9	5.0	2.9	2.8	7.8	8.7	11.1	11.0	12.9	10.3	8.3	9.0	7.8	6.9	5.9	7.5	6.7	5.6	2.4	12.9	4.0
	NW	NNW	NNW	NNW	NW	W	W	WNW	WNW	W	SW	SW	SW	SW	SW	SSW	SSW	S	SSE	SSE	SSE	SSE	SSE	SSE			
Feb 25	6.7	7.8	8.5	9.8	14.2	14.1	13.9	14.0	18.1	16.3	16.2	15.9	12.5	9.0	8.7	5.9	4.4	3.5	3.0	5.2	4.1	4.4	5.3	4.5	3.0	18.1	8.7
	SSE	S	SSE	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SSW	SE	SSE	SE	SE	SSE	SE			
Feb 26	4.3	2.9	2.2	2.2	1.6	0.7	1.9	2.9	1.2	5.5	7.3	4.3	2.8	1.8	6.2	6.2	8.5	10.9	10.6	10.5	9.4	10.7	7.3	8.7	0.7	10.9	4.2
	SE	ESE	SE	ESE	E	NNE	N	ENE	ESE	E	E	ENE	ENE	SW	NW	NW	NE	NE	NE	ENE	ENE	ENE	ENE	NE			
Feb 27	7.9	7.7	8.5	9.1	8.5	6.9	7.2	8.0	6.5	8.0	9.7	10.7	8.7	10.8	11.1	10.9	8.4	6.8	6.0	6.4	4.9	5.0	3.5	2.4	2.4	11.1	7.6
	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE			
Feb 28	2.7	2.8	2.3	4.8	4.4	3.0	3.9	4.2	5.9	7.0	8.3	6.2	5.0	5.5	6.8	8.6	7.3	5.2	6.2	4.8	6.2	3.4	2.7	2.9	2.3	8.6	4.4
	ENE	E	ENE	ENE	ENE	E	E	ENE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NE	NE	NW	NNW	N	NE	NE	NNE			

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 pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

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

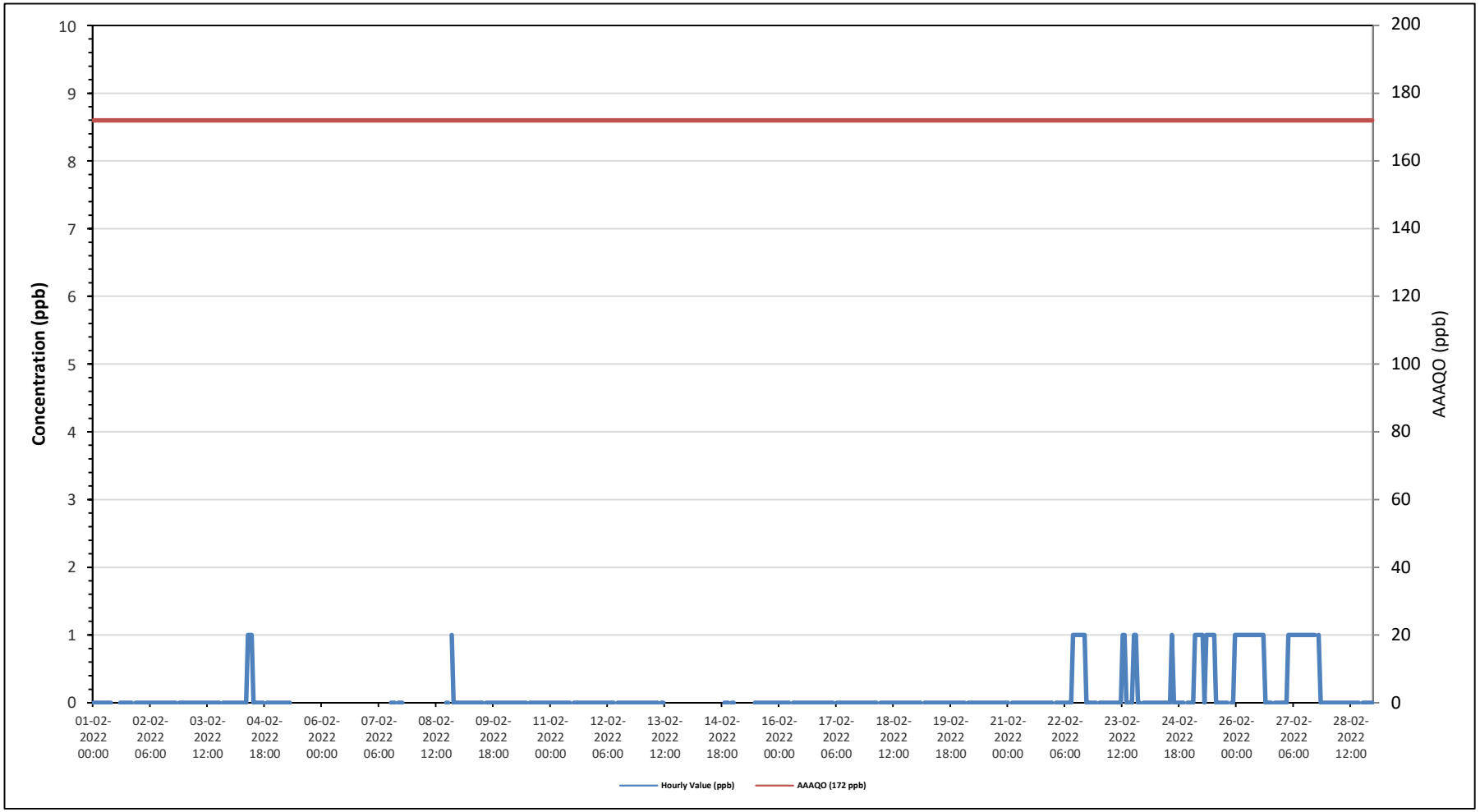
Maximum Hourly Value:	1	ppb	on February 4 at hour 9	Hours in Service:	672
Maximum Daily Value:	0.7	ppb	on February 27	Hours of Data:	527
Minimum Hourly Value:	0	ppb	on February 1 at hour 0	Hours of Missing Data:	115
Minimum Daily Value:	0.0	ppb	on February 1	Hours of Calibration:	30
Monthly Average:	0.1	ppb		Operational Uptime:	82.9

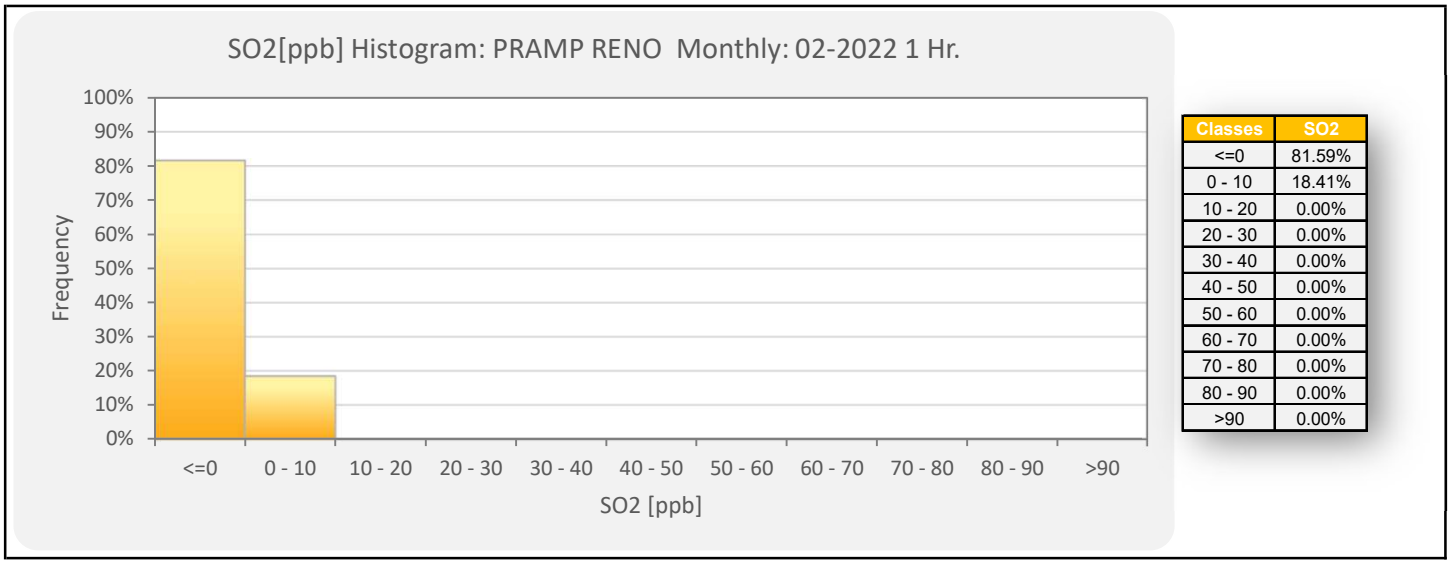
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0	0	0	0	0	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	S	0	0	0	0	0.0
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0.0
Feb 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Feb 4	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0.1
Feb 5	0	0	0	0	0	0	0	0	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0	0	-
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	0	0	0	S	0	0	0	K	K	K	K	K	0	0	-
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0	0	S	1	0	0	0	0	1	-
Feb 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
Feb 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
Feb 11	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 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
Feb 13	0	0	0	0	0	0	0	0	0	S	0	0	K	K	K	K	K	K	K	K	K	K	K	K	0	0	-
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0	0	0	S	0	0	0	-
Feb 15	0	K	K	K	K	K	K	K	Y	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Feb 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
Feb 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
Feb 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
Feb 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
Feb 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
Feb 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
Feb 22	S	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	S	0	1	0.3
Feb 23	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	S	0	0	1	0.2
Feb 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	S	0	0	0	1	0.0
Feb 25	0	0	1	1	1	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	S	0	0	1	0	1	0.5
Feb 26	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	S	0	0	0	0	0	1	0.7
Feb 27	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	S	1	0	0	0	0	0	1	0.7
Feb 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
Diurnal Maximum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1			
Diurnal Average	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.1	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 SO2 - Reno Station

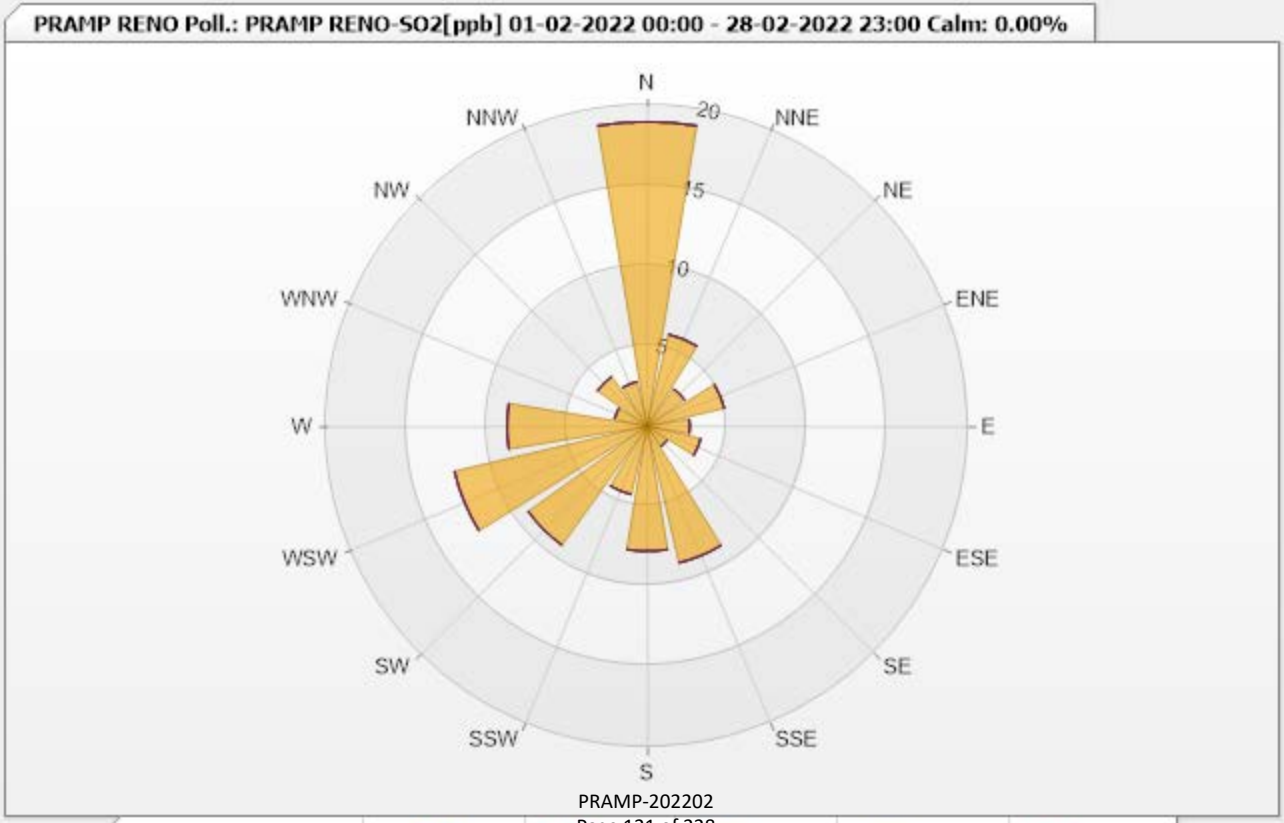




Classes	SO2
<=0	81.59%
0 - 10	18.41%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-SO2[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 78.42% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	18.98	0	0	0	0	18.98
NNE	5.88	0	0	0	0	5.88
NE	2.85	0	0	0	0	2.85
ENE	4.93	0	0	0	0	4.93
E	2.66	0	0	0	0	2.66
ESE	3.42	0	0	0	0	3.42
SE	1.52	0	0	0	0	1.52
SSE	8.73	0	0	0	0	8.73
S	7.78	0	0	0	0	7.78
SSW	4.36	0	0	0	0	4.36
SW	9.11	0	0	0	0	9.11
WSW	12.33	0	0	0	0	12.33
W	8.73	0	0	0	0	8.73
WNW	2.09	0	0	0	0	2.09
NW	3.8	0	0	0	0	3.8
NNW	2.85	0	0	0	0	2.85
Summary	100	0	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-SO2[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% 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 - February 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

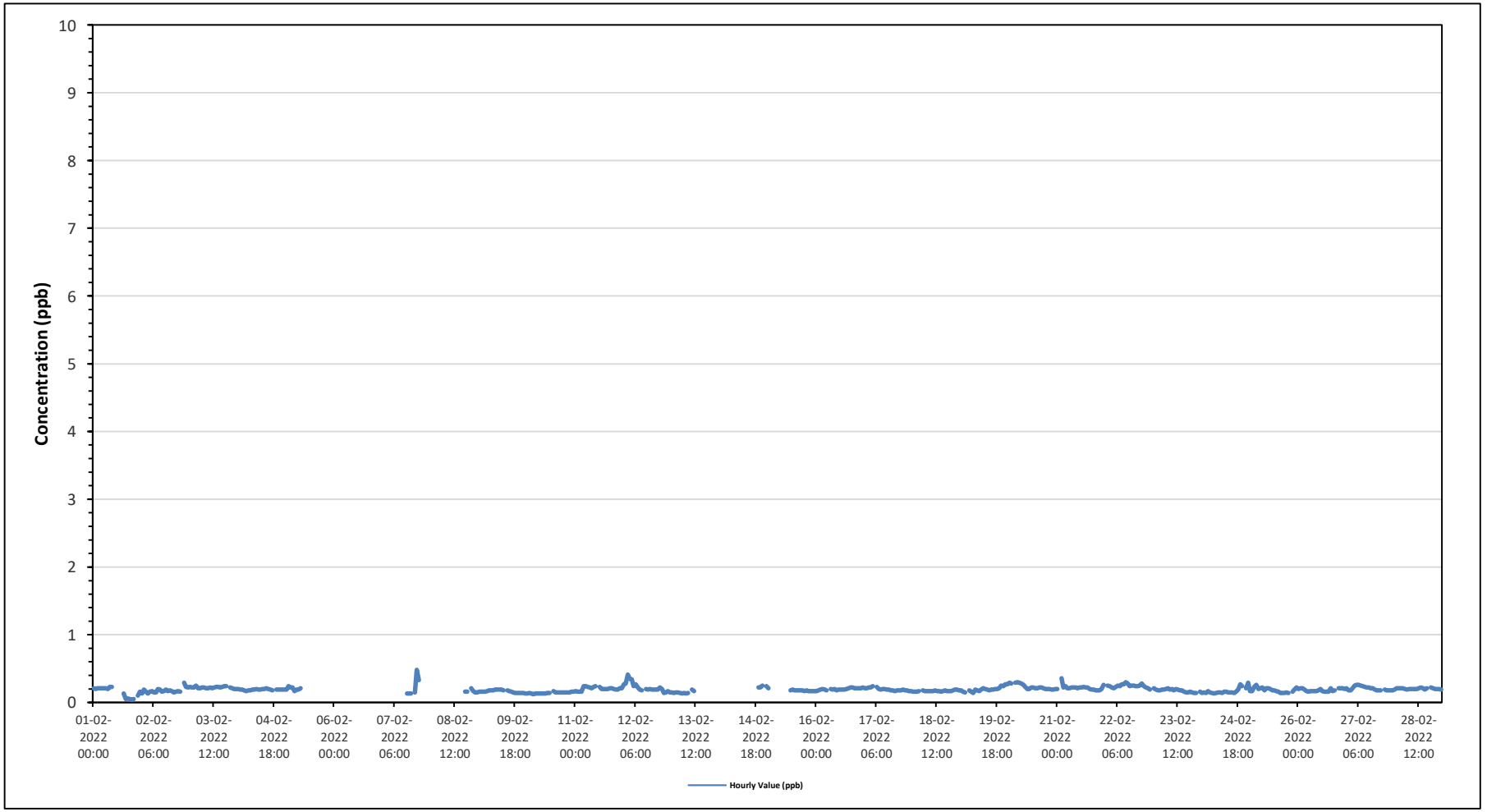
Maximum Hourly Value:	0.48	ppb	on February 7 at hour 17	Hours in Service:	672
Maximum Daily Value:	0.24	ppb	on February 22	Hours of Data:	526
Minimum Hourly Value:	0.04	ppb	on February 1 at hour 19	Hours of Missing Data:	115
Minimum Daily Value:	0.14	ppb	on February 10	Hours of Calibration:	31
Monthly Average:	0.19	ppb		Operational Uptime:	82.9

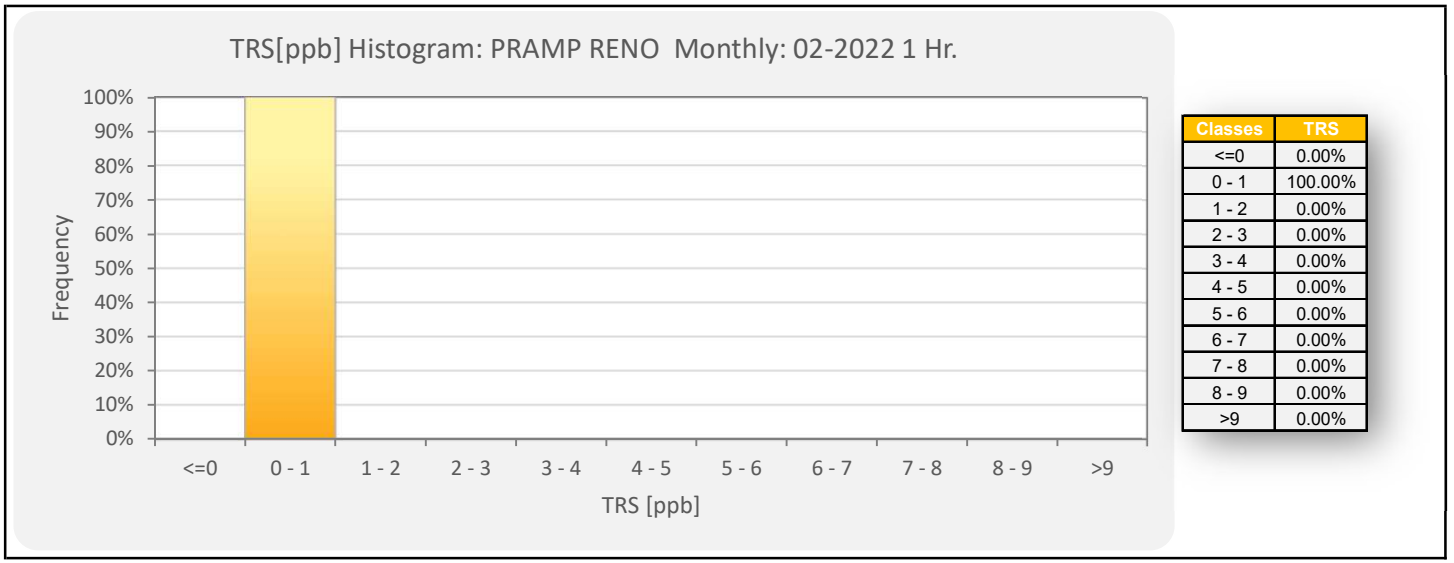
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0.21	0.2	0.21	0.21	0.21	0.21	0.21	0.2	0.23	0.23	C	C	C	C	C	0.13	0.05	0.06	0.05	0.04	0.05	S	0.1	0.16	**0.04**	0.23	0.15
Feb 2	0.13	0.19	0.16	0.13	0.16	0.17	0.15	0.15	0.2	0.19	0.16	0.17	0.19	0.17	0.18	0.17	0.15	0.16	0.17	0.16	S	0.29	0.23	0.22	0.13	0.29	0.18
Feb 3	0.23	0.22	0.22	0.25	0.21	0.21	0.22	0.22	0.21	0.21	0.22	0.21	0.22	0.23	0.23	0.22	0.23	0.24	0.24	S	0.22	0.21	0.2	0.2	0.20	0.25	0.22
Feb 4	0.2	0.19	0.19	0.18	0.17	0.18	0.18	0.19	0.19	0.2	0.19	0.19	0.2	0.2	0.21	0.2	0.19	0.18	S	0.19	0.19	0.19	0.19	0.19	0.17	0.21	0.19
Feb 5	0.19	0.24	0.22	0.22	0.17	0.19	0.19	0.21	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0.17	0.24	-
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	0.13	0.13	0.13	S	0.15	**0.48**	0.33	K	K	K	K	K	0.13	**0.48**	-
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0.16	0.16	S	0.21	0.17	0.15	0.15	0.15	0.21	-
Feb 9	0.16	0.16	0.16	0.16	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.18	S	0.18	0.17	0.16	0.15	0.14	0.14	0.14	0.14	0.14	0.13	0.13	0.19	0.16
Feb 10	0.13	0.14	0.13	0.12	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	S	0.17	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.12	0.17	0.14
Feb 11	0.17	0.16	0.16	0.16	0.24	0.24	0.23	0.22	0.21	0.23	0.24	S	0.23	0.2	0.2	0.2	0.2	0.21	0.21	0.2	0.19	0.19	0.21	0.21	0.16	0.24	0.20
Feb 12	0.27	0.28	0.41	0.35	0.34	0.24	0.27	0.22	0.19	0.18	S	0.2	0.19	0.2	0.19	0.19	0.19	0.19	0.22	0.2	0.14	0.15	0.17	0.15	0.14	0.41	0.22
Feb 13	0.15	0.14	0.15	0.15	0.14	0.13	0.14	0.13	0.14	S	0.19	0.17	K	K	K	K	K	K	K	K	K	K	K	K	0.13	0.19	-
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0.22	0.22	0.25	S	0.24	0.22	0.25	-
Feb 15	0.21	K	K	K	K	K	K	K	Y	Y	Y	0.18	0.19	0.18	0.18	0.18	0.18	0.18	0.17	0.18	0.17	0.17	0.17	0.17	0.17	0.21	-
Feb 16	0.17	0.18	0.19	0.2	0.19	0.18	S	0.2	0.19	0.2	0.18	0.19	0.19	0.19	0.19	0.2	0.21	0.22	0.22	0.21	0.21	0.21	0.21	0.22	0.17	0.22	0.20
Feb 17	0.21	0.21	0.22	0.22	0.24	S	0.23	0.2	0.19	0.2	0.2	0.19	0.19	0.18	0.18	0.17	0.18	0.18	0.18	0.19	0.18	0.18	0.17	0.17	0.17	0.24	0.19
Feb 18	0.16	0.16	0.16	0.17	S	0.18	0.17	0.17	0.17	0.17	0.17	0.18	0.17	0.17	0.16	0.17	0.18	0.17	0.17	0.17	0.18	0.19	0.19	0.18	0.16	0.19	0.17
Feb 19	0.18	0.16	0.15	S	0.18	0.16	0.14	0.19	0.18	0.17	0.19	0.21	0.2	0.19	0.18	0.19	0.19	0.2	0.2	0.21	0.25	0.24	0.27	0.27	0.14	0.27	0.20
Feb 20	0.29	0.28	S	0.29	0.3	0.29	0.28	0.26	0.23	0.2	0.2	0.22	0.22	0.21	0.21	0.22	0.22	0.21	0.2	0.2	0.2	0.19	0.19	0.2	0.19	0.30	0.23
Feb 21	0.2	S	0.36	0.22	0.24	0.21	0.21	0.22	0.22	0.22	0.21	0.22	0.22	0.23	0.22	0.22	0.2	0.19	0.19	0.18	0.18	0.18	0.2	0.26	0.18	0.36	0.22
Feb 22	S	0.25	0.24	0.22	0.21	0.23	0.25	0.24	0.27	0.27	0.3	0.28	0.24	0.25	0.25	0.24	0.24	0.25	0.28	0.24	0.22	0.21	0.19	S	0.19	0.30	**0.24**
Feb 23	0.21	0.19	0.18	0.18	0.19	0.19	0.2	0.21	0.19	0.2	0.18	0.2	0.19	0.18	0.18	0.16	0.15	0.15	0.16	0.15	0.14	0.14	S	0.16	0.14	0.21	0.18
Feb 24	0.14	0.15	0.14	0.17	0.15	0.14	0.13	0.14	0.15	0.15	0.14	0.16	0.16	0.15	0.15	0.15	0.14	0.16	0.19	0.27	0.24	S	0.21	0.29	0.13	0.29	0.17
Feb 25	0.17	0.17	0.23	0.26	0.2	0.21	0.22	0.18	0.21	0.21	0.2	0.18	0.18	0.17	0.16	0.14	0.14	0.14	0.15	0.14	S	0.16	0.19	0.22	0.14	0.26	0.18
Feb 26	0.2	0.21	0.21	0.19	0.17	0.16	0.17	0.17	0.17	0.17	0.18	0.2	0.17	0.16	0.16	0.16	0.21	0.17	0.18	S	0.21	0.21	0.21	0.2	0.16	0.21	0.18
Feb 27	0.21	0.18	0.18	0.21	0.25	0.26	0.26	0.25	0.24	0.23	0.22	0.22	0.21	0.21	0.19	0.18	0.18	0.18	S	0.19	0.18	0.18	0.18	0.18	0.18	0.26	0.21
Feb 28	0.19	0.21	0.21	0.21	0.21	0.2	0.19	0.2	0.2	0.2	0.2	0.2	0.21	0.22	0.21	0.19	0.21	S	0.22	0.21	0.2	0.2	0.2	0.19	0.19	0.22	0.20
Diurnal Maximum	0.29	0.28	0.41	0.35	0.34	0.29	0.28	0.26	0.27	0.27	0.30	0.28	0.24	0.25	0.25	0.24	0.24	0.48	0.33	0.27	0.25	0.29	0.27	0.29			
Diurnal Average	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.19	0.20	0.20	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.19	0.19	0.18	0.19	0.19	0.19	0.20			

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

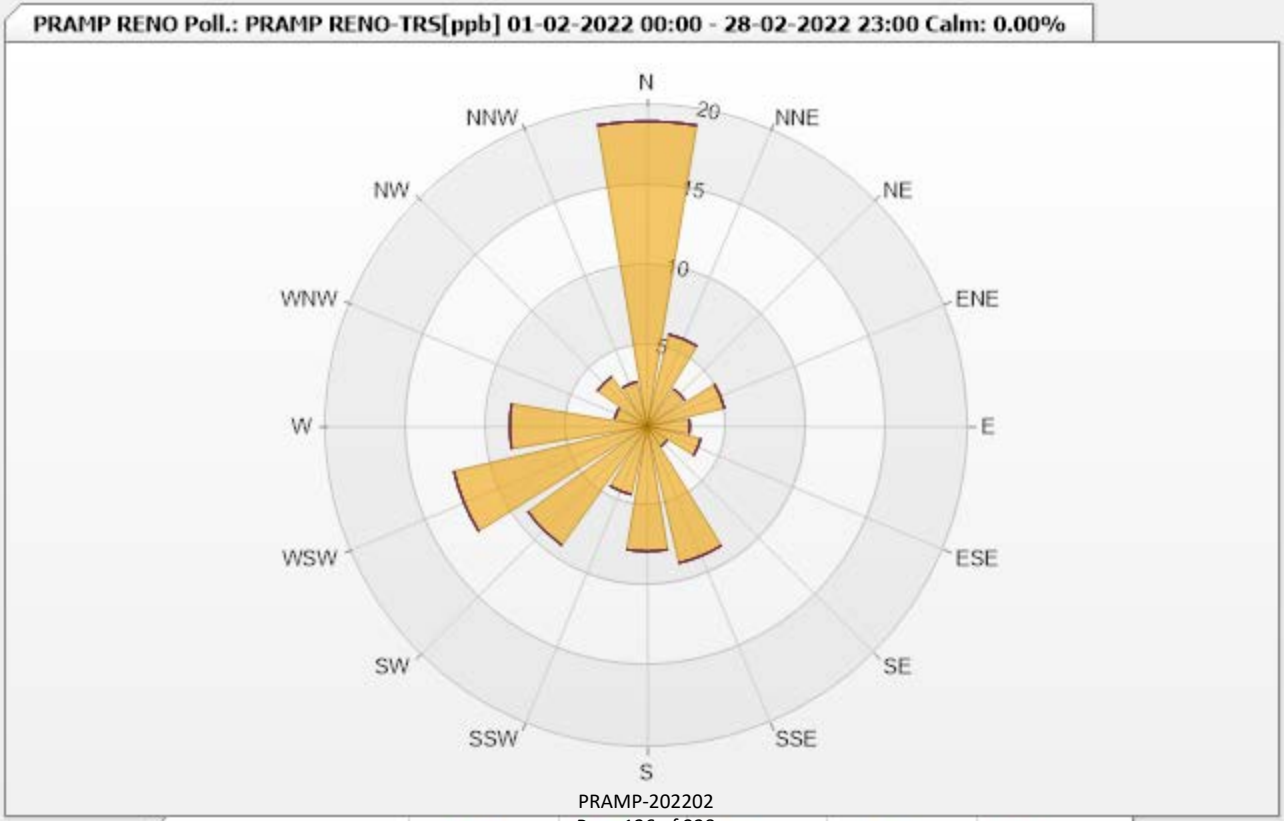




Classes	TRS
<=0	0.00%
0 - 1	100.00%
1 - 2	0.00%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-TRS[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 78.27% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	19.01	0	0	0	0	19.01
NNE	5.89	0	0	0	0	5.89
NE	2.85	0	0	0	0	2.85
ENE	4.94	0	0	0	0	4.94
E	2.66	0	0	0	0	2.66
ESE	3.42	0	0	0	0	3.42
SE	1.52	0	0	0	0	1.52
SSE	8.75	0	0	0	0	8.75
S	7.79	0	0	0	0	7.79
SSW	4.37	0	0	0	0	4.37
SW	9.13	0	0	0	0	9.13
WSW	12.36	0	0	0	0	12.36
W	8.56	0	0	0	0	8.56
WNW	2.09	0	0	0	0	2.09
NW	3.8	0	0	0	0	3.8
NNW	2.85	0	0	0	0	2.85
Summary	100	0	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-TRS[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppb)
100 0-2
0 2-5
0 5-10
0 10-50
0 >50.0

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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

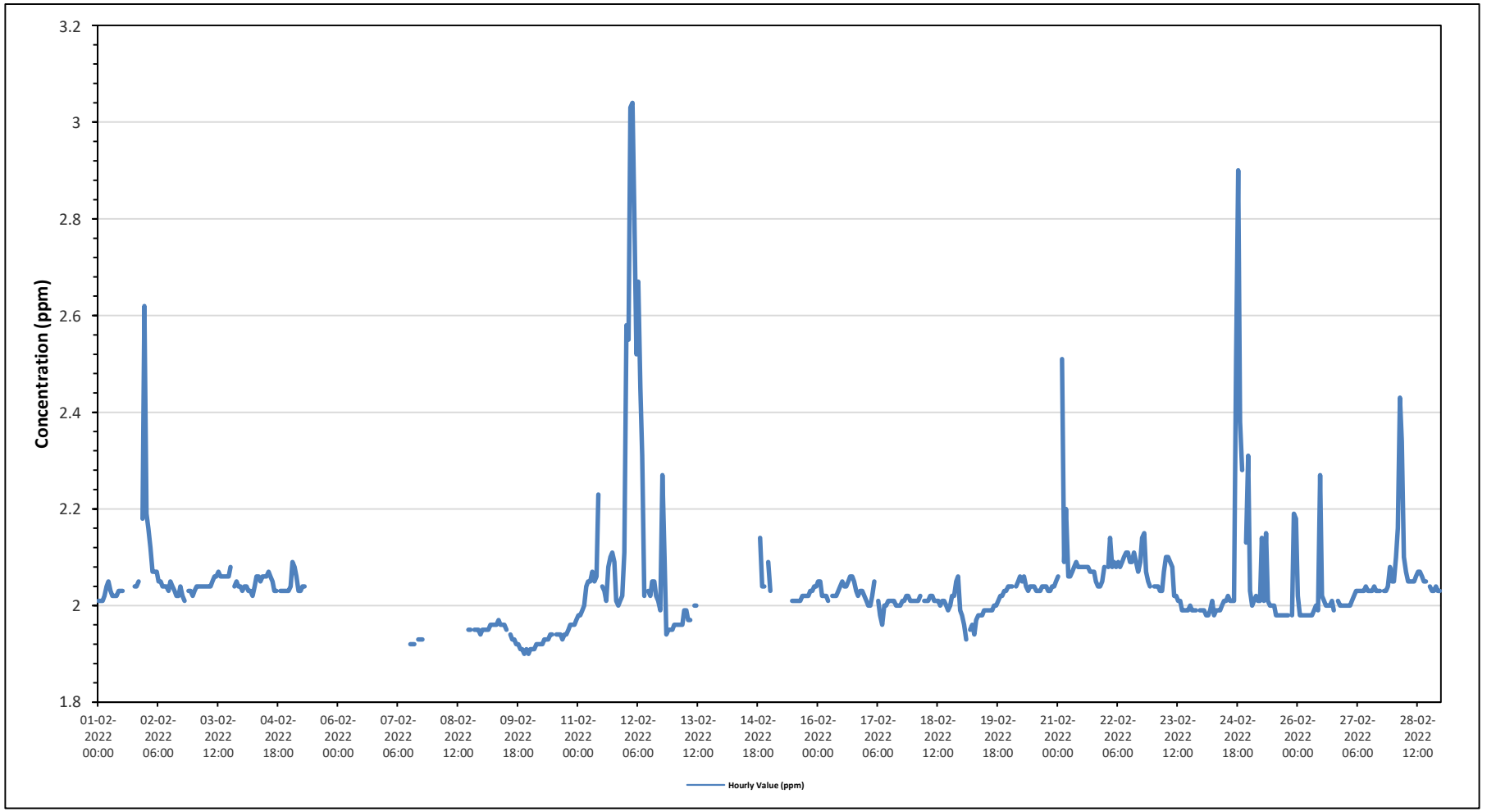
Maximum Hourly Value:	3.04	ppm	on February 12 at hour 3	Hours in Service:	672
Maximum Daily Value:	2.27	ppm	on February 12	Hours of Data:	526
Minimum Hourly Value:	1.90	ppm	on February 9 at hour 21	Hours of Missing Data:	115
Minimum Daily Value:	1.94	ppm	on February 10	Hours of Calibration:	31
Monthly Average:	2.04	ppm		Operational Uptime:	82.9

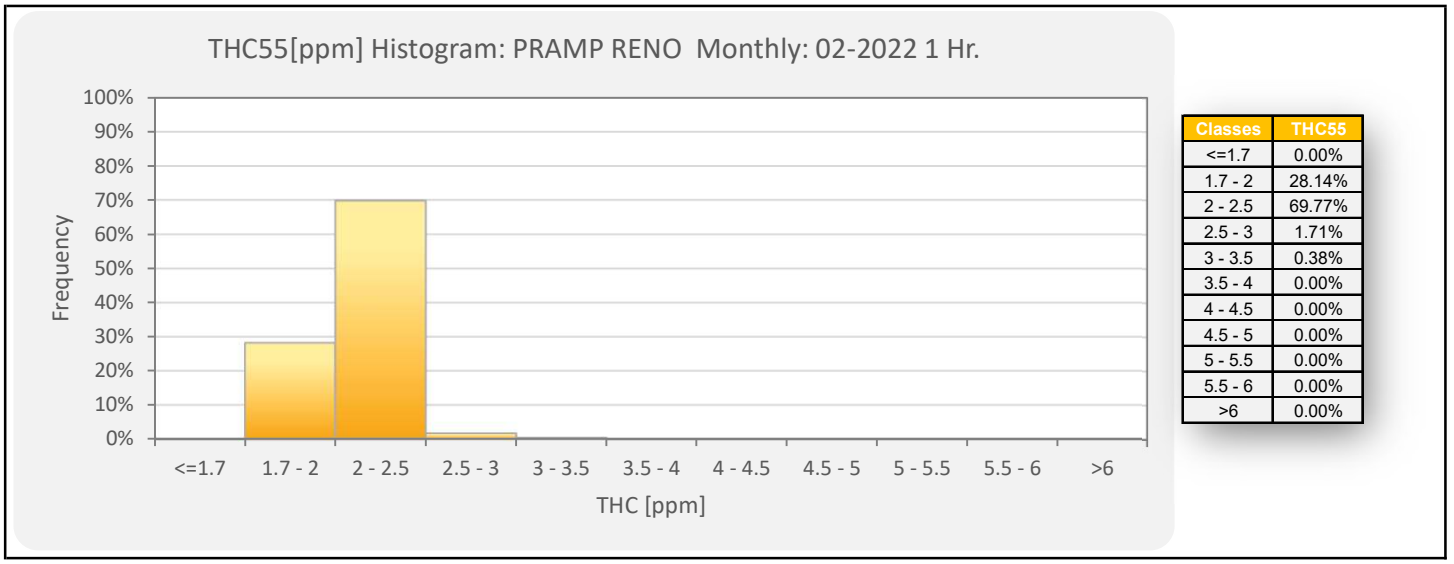
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	2.01	2.01	2.01	2.02	2.04	2.05	2.03	2.02	2.02	2.02	2.03	2.03	2.03	C	C	C	C	C	2.04	2.04	2.05	S	2.18	2.62	2.01	2.62	2.07
Feb 2	2.19	2.16	2.12	2.07	2.07	2.07	2.05	2.05	2.04	2.04	2.04	2.03	2.05	2.04	2.03	2.02	2.02	2.04	2.02	2.01	S	2.03	2.03	2.02	2.01	2.19	2.05
Feb 3	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.06	2.06	2.07	2.06	2.06	2.06	2.06	2.06	2.08	S	2.04	2.05	2.04	2.04	2.03	2.08	2.05
Feb 4	2.03	2.04	2.04	2.03	2.03	2.02	2.04	2.06	2.06	2.05	2.06	2.06	2.06	2.07	2.06	2.05	2.03	2.03	S	2.03	2.03	2.03	2.03	2.03	2.02	2.07	2.04
Feb 5	2.04	2.09	2.08	2.06	2.03	2.03	2.04	2.04	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	2.03	2.09	-
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	1.92	1.92	1.92	S	1.93	1.93	1.93	K	K	K	K	K	1.92	1.93	-
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	1.95	1.95	S	1.95	1.95	1.95	1.94	1.94	1.95	-
Feb 9	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.97	1.96	1.96	1.96	1.95	S	1.94	1.93	1.93	1.92	1.92	1.91	1.91	1.90	1.91	1.90	**1.90**	1.97	1.94
Feb 10	1.91	1.91	1.91	1.92	1.92	1.92	1.92	1.93	1.93	1.93	1.94	1.94	S	1.94	1.94	1.94	1.93	1.94	1.94	1.95	1.96	1.96	1.96	1.97	1.91	1.97	1.94
Feb 11	1.98	1.98	1.99	2.00	2.04	2.05	2.05	2.07	2.05	2.06	2.23	S	2.04	2.03	2.01	2.08	2.10	2.11	2.09	2.01	2.00	2.01	2.02	2.11	1.98	2.23	2.05
Feb 12	2.58	2.55	3.03	**3.04**	2.81	2.52	2.67	2.45	2.31	2.02	S	2.03	2.02	2.05	2.05	2.02	2.01	1.99	2.27	2.10	1.94	1.95	1.95	1.95	1.94	**3.04**	**2.27**
Feb 13	1.96	1.96	1.96	1.96	1.96	1.99	1.99	1.97	1.97	S	2.00	2.00	K	K	K	K	K	K	K	K	K	K	K	K	1.96	2.00	-
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	2.14	2.04	2.04	S	2.09	2.04	2.14	-
Feb 15	2.03	K	K	K	K	K	K	K	Y	Y	Y	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.03	2.03	2.04	2.04	2.01	2.04	-
Feb 16	2.05	2.05	2.02	2.02	2.02	2.01	S	2.02	2.02	2.02	2.03	2.04	2.05	2.04	2.04	2.05	2.06	2.06	2.05	2.03	2.02	2.03	2.03	2.02	2.01	2.06	2.03
Feb 17	2.01	2.00	2.00	2.02	2.05	S	2.01	1.98	1.96	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.01	2.01	2.02	2.02	2.01	2.01	1.96	2.05	2.01
Feb 18	2.01	2.01	2.01	2.02	S	2.01	2.01	2.01	2.02	2.02	2.01	2.01	2.01	2.00	2.01	2.01	2.00	1.99	2.00	2.02	2.02	2.05	2.06	1.99	1.99	2.06	2.01
Feb 19	1.98	1.96	1.93	S	1.95	1.96	1.94	1.97	1.98	1.98	1.98	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.01	2.02	2.02	2.03	2.03	2.04	1.93	2.04	1.99
Feb 20	2.04	2.04	S	2.04	2.05	2.06	2.05	2.06	2.04	2.03	2.04	2.04	2.04	2.03	2.03	2.03	2.04	2.04	2.04	2.03	2.03	2.04	2.04	2.05	2.03	2.06	2.04
Feb 21	2.06	S	2.51	2.09	2.20	2.06	2.06	2.07	2.08	2.09	2.08	2.08	2.08	2.08	2.08	2.08	2.07	2.07	2.07	2.05	2.04	2.04	2.05	2.08	2.04	2.51	2.09
Feb 22	S	2.08	2.14	2.08	2.09	2.08	2.09	2.08	2.09	2.10	2.11	2.11	2.09	2.09	2.11	2.09	2.07	2.09	2.14	2.15	2.07	2.05	2.04	S	2.04	2.15	2.09
Feb 23	2.04	2.04	2.04	2.03	2.03	2.07	2.10	2.10	2.09	2.08	2.02	2.02	2.01	2.01	1.99	1.99	1.99	1.99	2.00	1.99	1.99	1.99	S	1.99	1.99	2.10	2.03
Feb 24	1.99	1.99	1.98	1.98	1.99	2.01	1.98	1.99	1.99	1.99	2.00	2.01	2.01	2.02	2.01	2.01	2.01	2.51	2.90	2.38	2.28	S	2.13	2.31	1.98	2.90	2.11
Feb 25	2.03	2.00	2.01	2.02	2.01	2.01	2.14	2.01	2.15	2.01	2.00	2.00	2.00	1.98	1.98	1.98	1.98	1.98	1.98	1.98	S	1.98	2.19	2.18	1.98	2.19	2.03
Feb 26	2.02	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	1.99	2.27	2.02	2.01	2.00	2.00	2.00	2.01	1.99	S	2.01	2.00	2.00	2.00	1.98	2.27	2.01
Feb 27	2.00	2.00	2.00	2.01	2.02	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.04	2.03	2.03	2.03	S	2.03	2.03	2.04	2.08	2.05	2.00	2.08	2.03
Feb 28	2.05	2.10	2.16	2.43	2.34	2.10	2.07	2.05	2.05	2.05	2.05	2.06	2.07	2.07	2.06	2.05	2.05	S	2.04	2.03	2.03	2.04	2.03	2.03	2.03	2.43	2.09
Diurnal Maximum	2.58	2.55	3.03	3.04	2.81	2.52	2.67	2.45	2.31	2.10	2.23	2.27	2.09	2.09	2.11	2.09	2.10	2.51	2.90	2.38	2.28	2.05	2.19	2.62			
Diurnal Average	2.04	2.04	2.09	2.08	2.07	2.05	2.06	2.04	2.04	2.03	2.03	2.04	2.03	2.02	2.02	2.02	2.02	2.03	2.07	2.04	2.02	2.01	2.04	2.06			

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

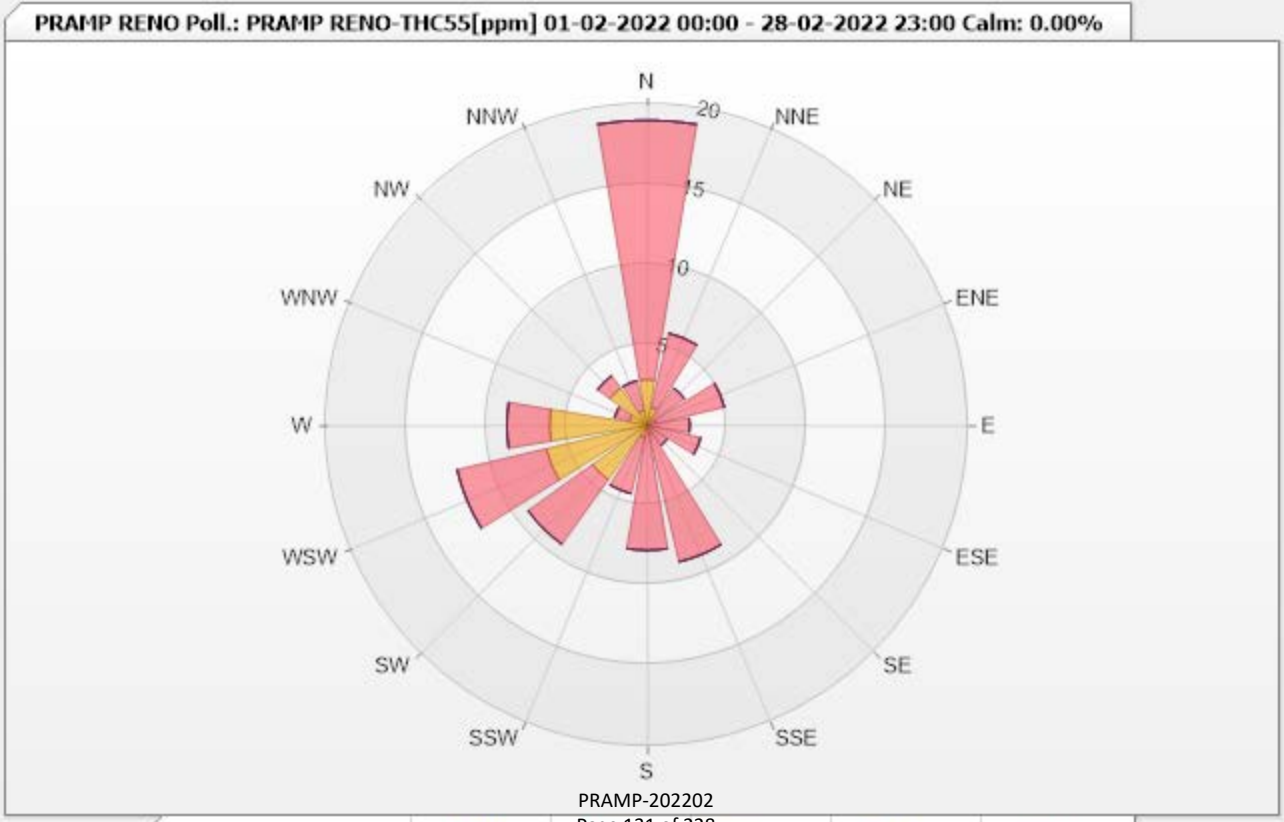




Classes	THC55
<=1.7	0.00%
1.7 - 2	28.14%
2 - 2.5	69.77%
2.5 - 3	1.71%
3 - 3.5	0.38%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-THC55[ppm] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 78.27% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	2.85	16.16	0	0	0	19.01
NNE	1.14	4.75	0	0	0	5.89
NE	0	2.85	0	0	0	2.85
ENE	0.57	4.37	0	0	0	4.94
E	0	2.66	0	0	0	2.66
ESE	0	3.42	0	0	0	3.42
SE	0	1.52	0	0	0	1.52
SSE	0.57	8.17	0	0	0	8.74
S	0.19	7.6	0	0	0	7.79
SSW	0.76	3.61	0	0	0	4.37
SW	4.18	4.94	0	0	0	9.12
WSW	6.46	5.7	0	0	0	12.16
W	6.08	2.66	0	0	0	8.74
WNW	1.14	0.95	0	0	0	2.09
NW	2.85	0.95	0	0	0	3.8
NNW	0.95	1.9	0	0	0	2.85
Summary	27.74	72.21	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-THC55[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
28 0-2
72 2-5
0 5-10
0 10-40
0 >40.0

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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

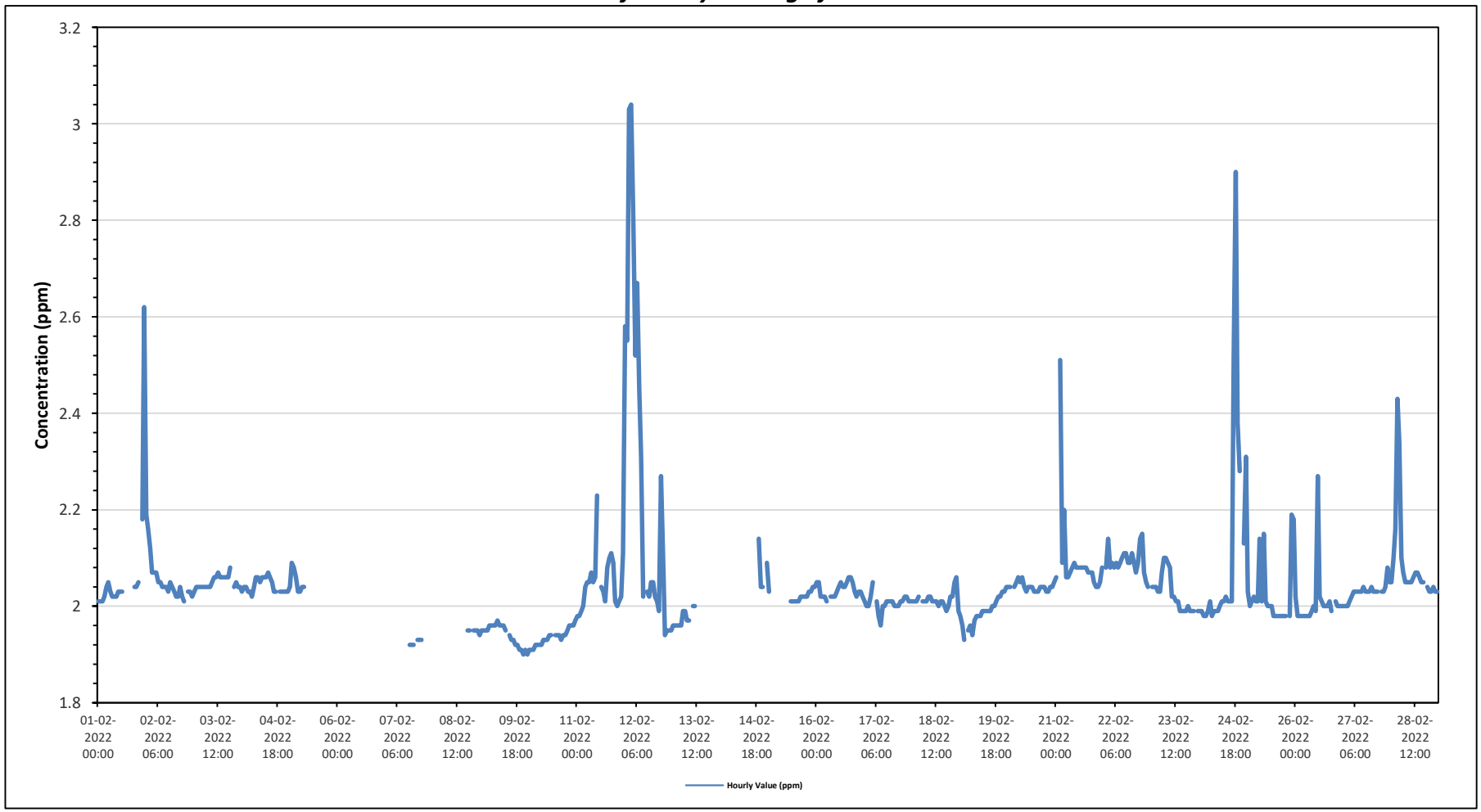
Maximum Hourly Value:	3.04	ppm	on February 12 at hour 3	Hours in Service:	672
Maximum Daily Value:	2.27	ppm	on February 12	Hours of Data:	526
Minimum Hourly Value:	1.90	ppm	on February 9 at hour 21	Hours of Missing Data:	115
Minimum Daily Value:	1.94	ppm	on February 10	Hours of Calibration:	31
Monthly Average:	2.04	ppm		Operational Uptime:	82.9

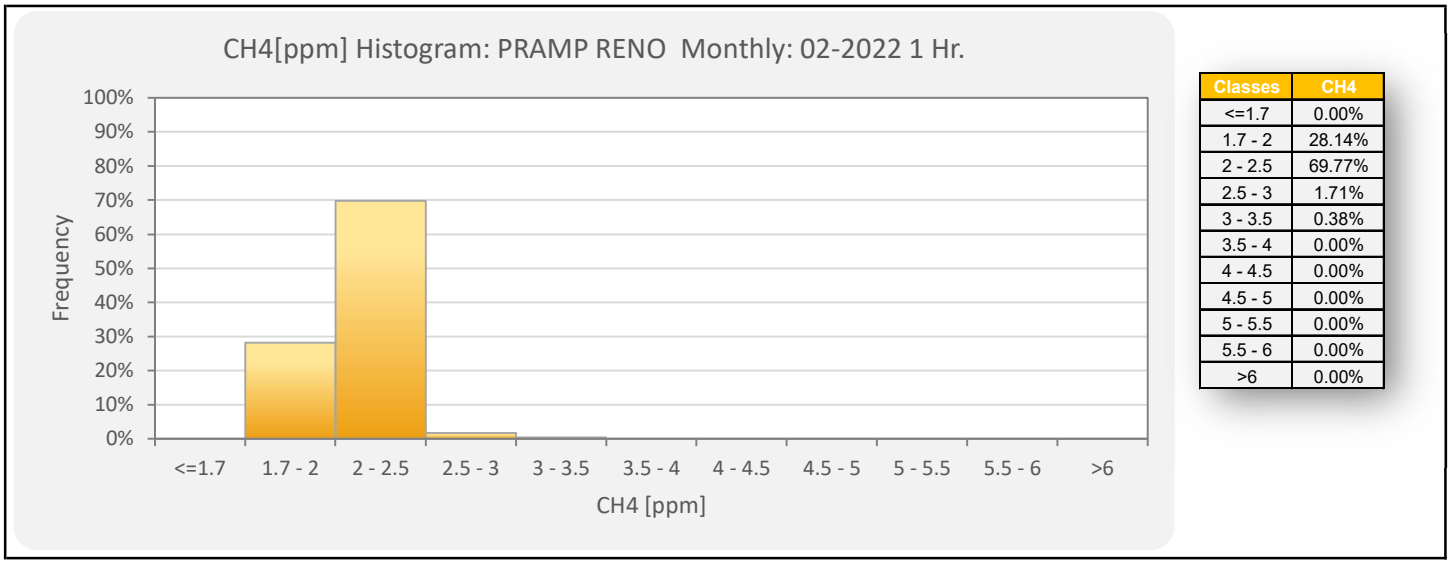
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	2.01	2.01	2.01	2.02	2.04	2.05	2.03	2.02	2.02	2.02	2.03	2.03	2.03	C	C	C	C	C	2.04	2.04	2.05	S	2.18	2.62	2.01	2.62	2.07
Feb 2	2.19	2.16	2.12	2.07	2.07	2.07	2.05	2.05	2.04	2.04	2.04	2.03	2.05	2.04	2.03	2.02	2.02	2.04	2.02	2.01	S	2.03	2.03	2.02	2.01	2.19	2.05
Feb 3	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.06	2.06	2.07	2.06	2.06	2.06	2.06	2.06	2.08	S	2.04	2.05	2.04	2.04	2.03	2.08	2.05
Feb 4	2.03	2.04	2.04	2.03	2.03	2.02	2.04	2.06	2.06	2.05	2.06	2.06	2.06	2.07	2.06	2.05	2.03	2.03	S	2.03	2.03	2.03	2.03	2.03	2.02	2.07	2.04
Feb 5	2.04	2.09	2.08	2.06	2.03	2.03	2.04	2.04	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	2.03	2.09	-
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	1.92	1.92	1.92	S	1.93	1.93	1.93	K	K	K	K	K	1.92	1.93	-
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	1.95	1.95	S	1.95	1.95	1.95	1.94	1.94	1.95	-
Feb 9	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.97	1.96	1.96	1.96	1.95	S	1.94	1.93	1.93	1.92	1.92	1.91	1.91	1.90	1.91	1.90	**1.90**	1.97	1.94
Feb 10	1.91	1.91	1.91	1.92	1.92	1.92	1.92	1.93	1.93	1.93	1.94	1.94	S	1.94	1.94	1.94	1.93	1.94	1.94	1.95	1.96	1.96	1.96	1.97	1.91	1.97	1.94
Feb 11	1.98	1.98	1.99	2.00	2.04	2.05	2.05	2.07	2.05	2.06	2.23	S	2.04	2.03	2.01	2.08	2.10	2.11	2.09	2.01	2.00	2.01	2.02	2.11	1.98	2.23	2.05
Feb 12	2.58	2.55	3.03	**3.04**	2.81	2.52	2.67	2.45	2.31	2.02	S	2.03	2.02	2.05	2.05	2.02	2.01	1.99	2.27	2.10	1.94	1.95	1.95	1.95	1.94	**3.04**	**2.27**
Feb 13	1.96	1.96	1.96	1.96	1.96	1.99	1.99	1.97	1.97	S	2.00	2.00	K	K	K	K	K	K	K	K	K	K	K	K	1.96	2.00	-
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	2.14	2.04	2.04	S	2.09	2.04	2.14	-
Feb 15	2.03	K	K	K	K	K	K	K	Y	Y	Y	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.03	2.03	2.04	2.04	2.01	2.04	-
Feb 16	2.05	2.05	2.02	2.02	2.02	2.01	S	2.02	2.02	2.02	2.03	2.04	2.05	2.04	2.04	2.05	2.06	2.06	2.05	2.03	2.02	2.03	2.03	2.02	2.01	2.06	2.03
Feb 17	2.01	2.00	2.00	2.02	2.05	S	2.01	1.98	1.96	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.01	2.01	2.02	2.02	2.01	2.01	1.96	2.05	2.01
Feb 18	2.01	2.01	2.01	2.02	S	2.01	2.01	2.01	2.02	2.02	2.01	2.01	2.01	2.00	2.01	2.01	2.00	1.99	2.00	2.02	2.02	2.05	2.06	1.99	1.99	2.06	2.01
Feb 19	1.98	1.96	1.93	S	1.95	1.96	1.94	1.97	1.98	1.98	1.98	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.01	2.02	2.02	2.03	2.03	2.04	1.93	2.04	1.99
Feb 20	2.04	2.04	S	2.04	2.05	2.06	2.05	2.06	2.04	2.03	2.04	2.04	2.04	2.03	2.03	2.03	2.04	2.04	2.04	2.03	2.03	2.04	2.04	2.05	2.03	2.06	2.04
Feb 21	2.06	S	2.51	2.09	2.20	2.06	2.06	2.07	2.08	2.09	2.08	2.08	2.08	2.08	2.08	2.08	2.07	2.07	2.07	2.05	2.04	2.04	2.05	2.08	2.04	2.51	2.09
Feb 22	S	2.08	2.14	2.08	2.09	2.08	2.09	2.08	2.09	2.10	2.11	2.11	2.09	2.09	2.11	2.09	2.07	2.09	2.14	2.15	2.07	2.05	2.04	S	2.04	2.15	2.09
Feb 23	2.04	2.04	2.04	2.03	2.03	2.07	2.10	2.10	2.09	2.08	2.02	2.02	2.01	2.01	1.99	1.99	1.99	1.99	2.00	1.99	1.99	1.99	S	1.99	1.99	2.10	2.03
Feb 24	1.99	1.99	1.98	1.98	1.99	2.01	1.98	1.99	1.99	1.99	2.00	2.01	2.01	2.02	2.01	2.01	2.01	2.51	2.90	2.38	2.28	S	2.13	2.31	1.98	2.90	2.11
Feb 25	2.03	2.00	2.01	2.02	2.01	2.01	2.14	2.01	2.15	2.01	2.00	2.00	2.00	1.98	1.98	1.98	1.98	1.98	1.98	1.98	S	1.98	2.19	2.18	1.98	2.19	2.03
Feb 26	2.02	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	1.99	2.27	2.02	2.01	2.00	2.00	2.00	2.01	1.99	S	2.01	2.00	2.00	2.00	1.98	2.27	2.01
Feb 27	2.00	2.00	2.00	2.01	2.02	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.03	2.03	2.04	2.03	2.03	2.03	S	2.03	2.03	2.04	2.08	2.05	2.00	2.08	2.03
Feb 28	2.05	2.10	2.16	2.43	2.34	2.10	2.07	2.05	2.05	2.05	2.05	2.06	2.07	2.07	2.06	2.05	2.05	S	2.04	2.03	2.03	2.04	2.03	2.03	2.03	2.43	2.09
Diurnal Maximum	2.58	2.55	3.03	3.04	2.81	2.52	2.67	2.45	2.31	2.10	2.23	2.27	2.09	2.09	2.11	2.09	2.10	2.51	2.90	2.38	2.28	2.05	2.19	2.62			
Diurnal Average	2.04	2.04	2.09	2.08	2.07	2.05	2.06	2.04	2.04	2.03	2.03	2.04	2.03	2.02	2.02	2.02	2.02	2.03	2.07	2.04	2.02	2.01	2.04	2.06			

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

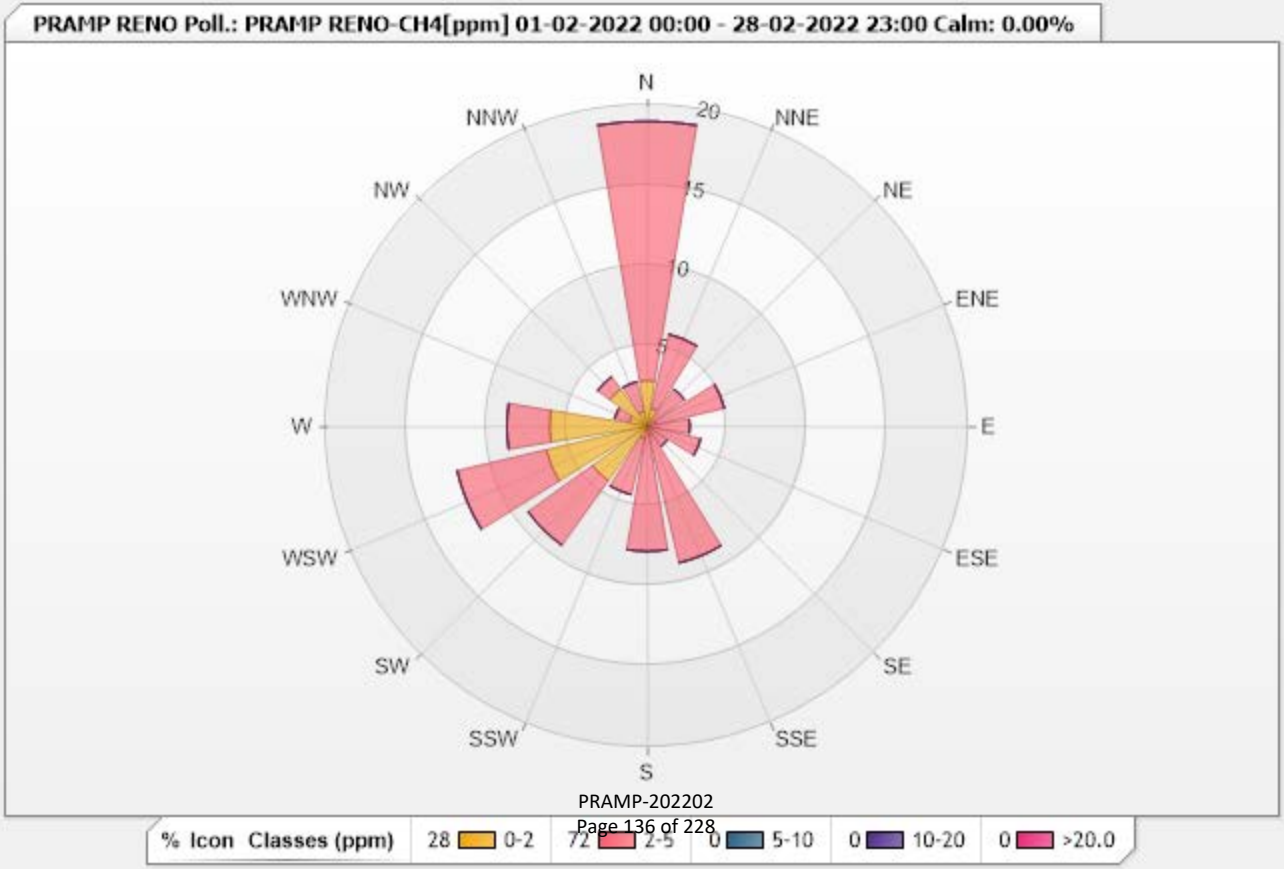




Classes	CH4
<=1.7	0.00%
1.7 - 2	28.14%
2 - 2.5	69.77%
2.5 - 3	1.71%
3 - 3.5	0.38%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-CH4[ppm] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 78.27% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	2.85	16.16	0	0	0	19.01
NNE	1.14	4.75	0	0	0	5.89
NE	0	2.85	0	0	0	2.85
ENE	0.57	4.37	0	0	0	4.94
E	0	2.66	0	0	0	2.66
ESE	0	3.42	0	0	0	3.42
SE	0	1.52	0	0	0	1.52
SSE	0.57	8.17	0	0	0	8.74
S	0.19	7.6	0	0	0	7.79
SSW	0.76	3.61	0	0	0	4.37
SW	4.18	4.94	0	0	0	9.12
WSW	6.46	5.7	0	0	0	12.16
W	6.08	2.66	0	0	0	8.74
WNW	1.14	0.95	0	0	0	2.09
NW	2.85	0.95	0	0	0	3.8
NNW	0.95	1.9	0	0	0	2.85
Summary	27.74	72.21	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-CH4[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
28 0-2
72 2-5
0 5-10
0 10-20
0 >20.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

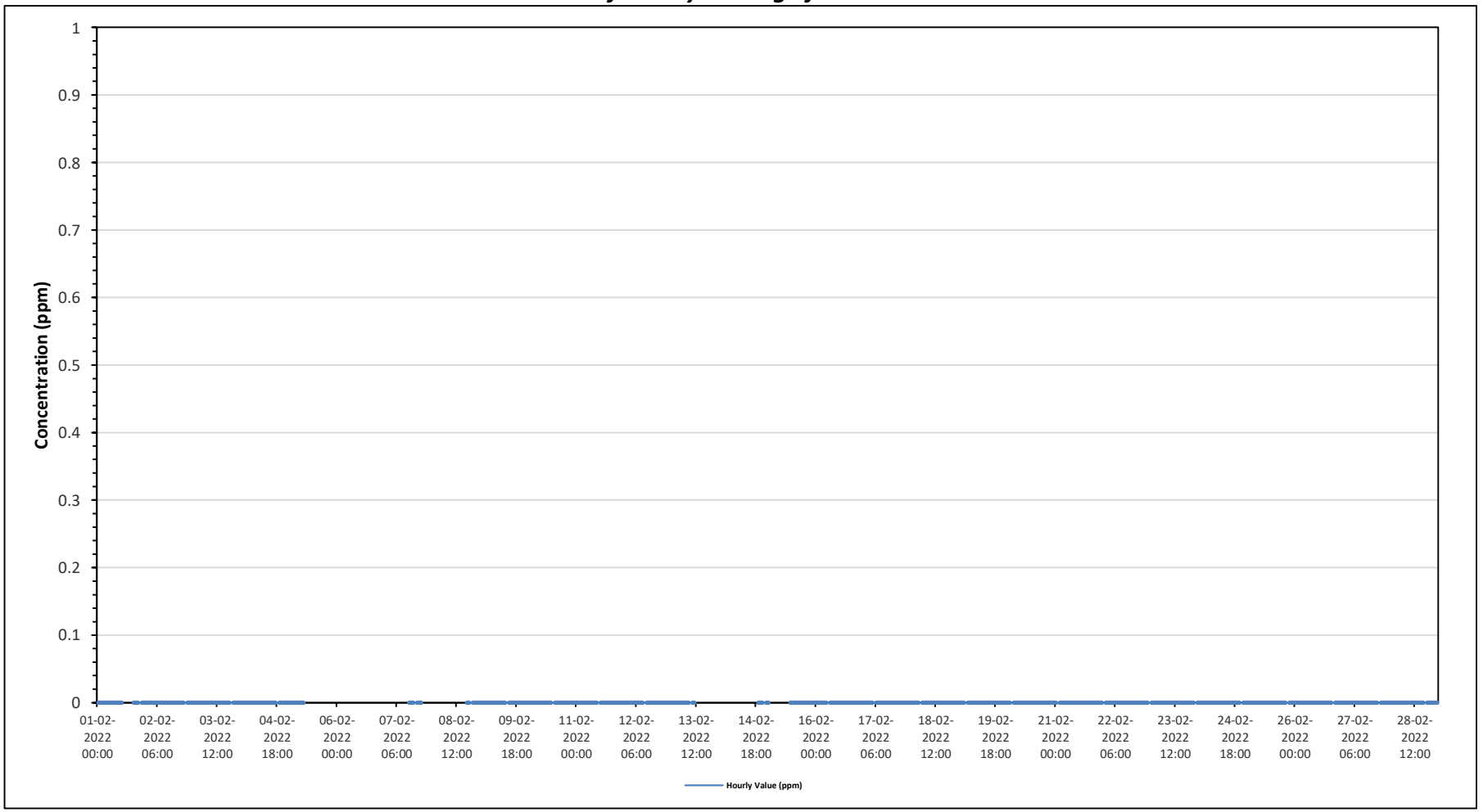
Maximum Hourly Value:	0.00	ppm	on February 1 at hour 0	Hours in Service:	672
Maximum Daily Value:	0.00	ppm	on February 1	Hours of Data:	526
Minimum Hourly Value:	0.00	ppm	on February 1 at hour 0	Hours of Missing Data:	115
Minimum Daily Value:	0.00	ppm	on February 1	Hours of Calibration:	31
Monthly Average:	0.00	ppm		Operational Uptime:	82.9

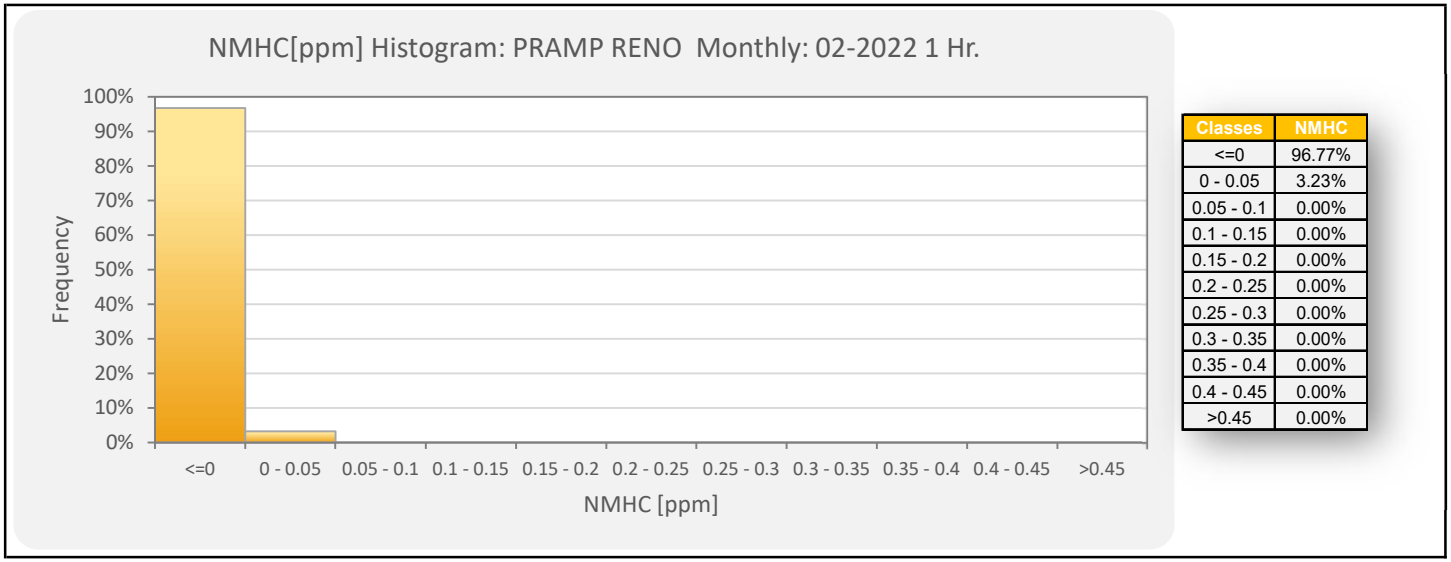
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	C	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Feb 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Feb 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0.00	0.00	-
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	0.00	0.00	0.00	S	0.00	0.00	0.00	K	K	K	K	K	0.00	0.00	-
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	-
Feb 9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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
Feb 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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
Feb 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	K	K	K	K	K	K	K	K	K	K	K	K	0.00	0.00	-
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0.00	0.00	0.00	S	0.00	0.00	0.00	-
Feb 15	0.00	K	K	K	K	K	K	K	Y	Y	Y	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Feb 16	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 18	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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
Feb 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
Feb 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
Feb 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
Feb 23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Feb 24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00
Feb 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Feb 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	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

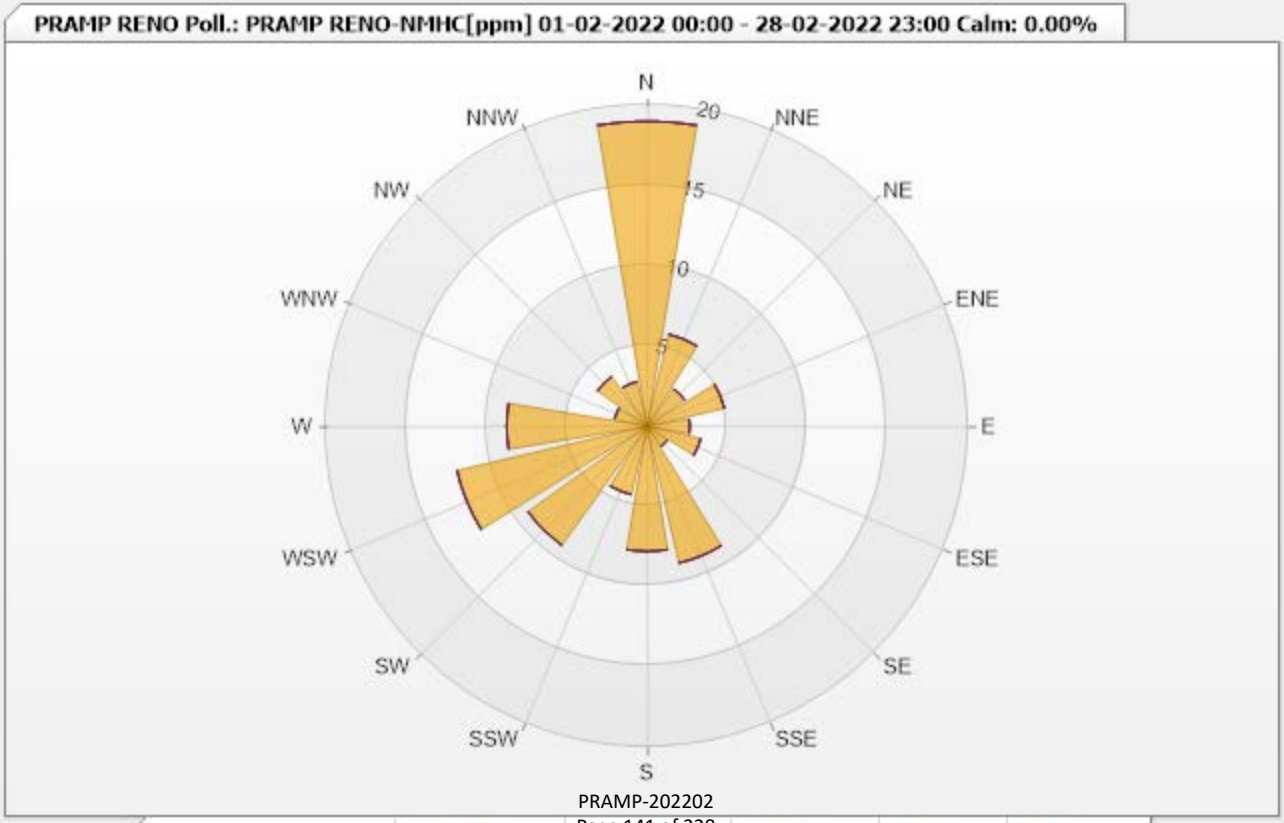




Classes	NMHC
<=0	96.77%
0 - 0.05	3.23%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-NMHC[ppm] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 78.27% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	19.01	0	0	0	0	19.01
NNE	5.89	0	0	0	0	5.89
NE	2.85	0	0	0	0	2.85
ENE	4.94	0	0	0	0	4.94
E	2.66	0	0	0	0	2.66
ESE	3.42	0	0	0	0	3.42
SE	1.52	0	0	0	0	1.52
SSE	8.75	0	0	0	0	8.75
S	7.79	0	0	0	0	7.79
SSW	4.37	0	0	0	0	4.37
SW	9.13	0	0	0	0	9.13
WSW	12.17	0	0	0	0	12.17
W	8.75	0	0	0	0	8.75
WNW	2.09	0	0	0	0	2.09
NW	3.8	0	0	0	0	3.8
NNW	2.85	0	0	0	0	2.85
Summary	100	0	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-NMHC[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
100 0-0.1
0 0.1-0.3
0 0.3-1
0 1-2
0 >2.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

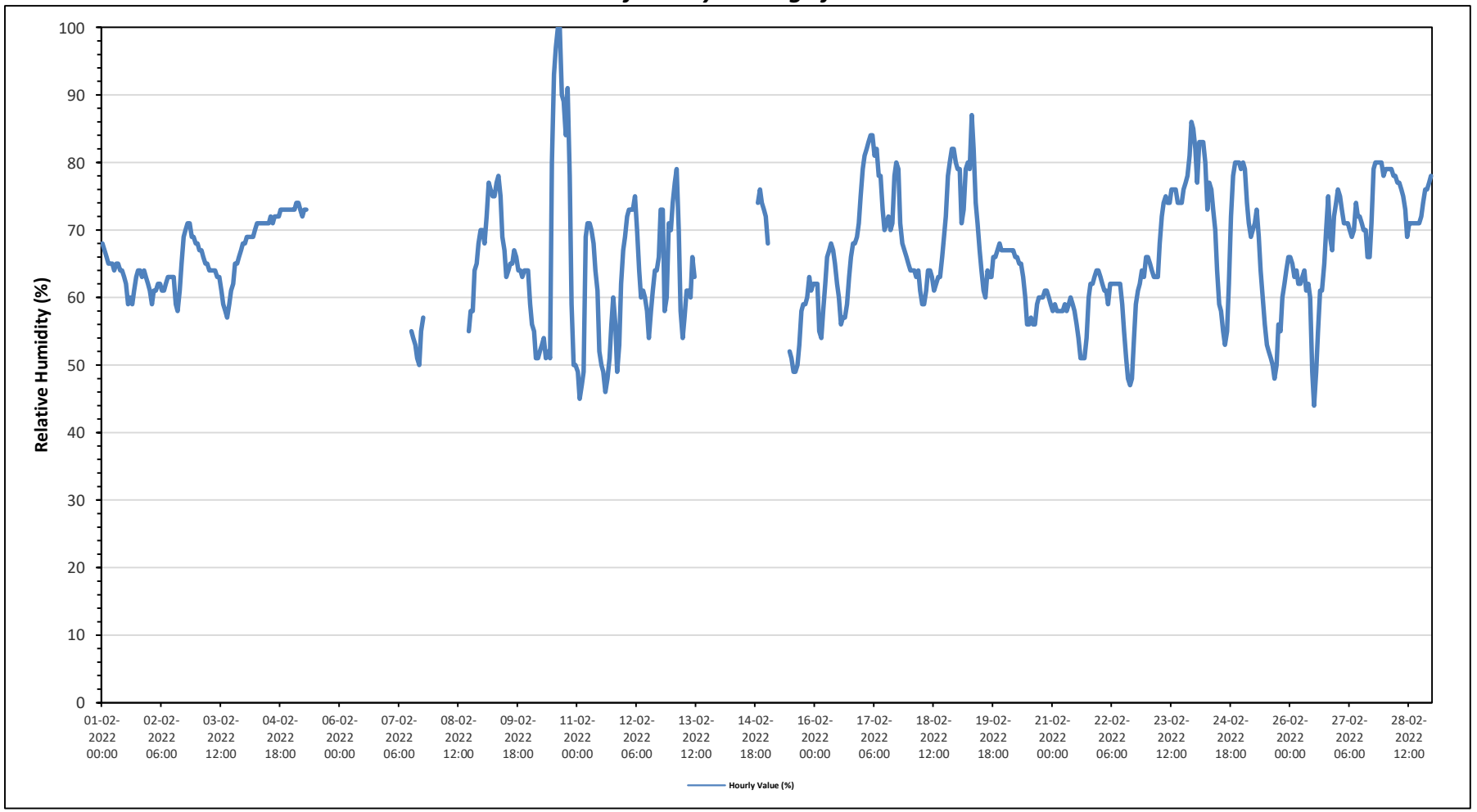
Maximum Hourly Value:	100	%	on February 10 at hour 14	Hours in Service:	672
Maximum Daily Value:	75.5	%	on February 17	Hours of Data:	557
Minimum Hourly Value:	44	%	on February 26 at hour 12	Hours of Missing Data:	115
Minimum Daily Value:	56.8	%	on February 11	Hours of Calibration:	0
Monthly Average:	66.1	%		Operational Uptime:	82.9

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
Feb 1	68	67	66	65	65	65	64	65	65	64	64	63	62	59	60	59	61	63	64	64	63	64	63	62	59	68	63.5
Feb 2	61	59	61	61	62	62	61	61	62	63	63	63	63	59	58	61	65	69	70	71	71	69	69	68	58	71	63.8
Feb 3	68	67	67	66	65	65	64	64	64	64	63	63	61	59	58	57	59	61	62	65	65	66	67	68	57	68	63.7
Feb 4	68	69	69	69	69	70	71	71	71	71	71	71	71	72	71	72	72	72	73	73	73	73	73	73	68	73	71.2
Feb 5	73	73	74	74	73	72	73	73	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	72	74	-
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	55	54	53	51	50	55	57	K	K	K	K	K	50	57	-
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	55	58	58	64	65	68	70	55	70	-
Feb 9	70	68	72	77	76	75	75	77	78	75	69	67	63	64	65	65	67	66	64	64	63	64	64	64	63	78	68.8
Feb 10	59	56	55	51	51	52	53	54	51	52	51	80	93	97	**100**	**100**	90	89	84	91	78	59	50	50	50	**100**	68.6
Feb 11	49	45	47	49	69	71	71	70	68	64	61	52	50	49	46	48	51	56	60	56	49	53	62	67	45	71	56.8
Feb 12	69	72	73	73	73	75	70	64	60	61	60	58	54	58	61	64	64	66	73	73	58	60	71	70	54	75	65.8
Feb 13	74	77	79	70	58	54	57	61	61	60	66	63	K	K	K	K	K	K	K	K	K	K	K	K	54	79	-
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	74	76	74	73	72	72	76	-
Feb 15	68	K	K	K	K	K	K	K	Y	Y	Y	52	51	49	49	50	53	58	59	59	60	63	61	62	49	68	-
Feb 16	62	62	55	54	58	62	66	67	68	67	65	62	60	56	57	57	59	63	66	68	68	69	71	75	54	75	63.2
Feb 17	79	81	82	83	84	84	81	82	78	78	73	70	71	72	70	71	78	80	79	71	68	67	66	65	65	84	**75.5**
Feb 18	64	64	64	63	64	61	59	59	61	64	64	63	61	62	63	63	66	69	72	78	80	82	82	80	59	82	67.0
Feb 19	79	79	71	73	79	80	79	87	82	74	71	67	64	61	60	64	63	63	66	66	67	68	67	67	60	87	70.7
Feb 20	67	67	67	67	67	66	66	65	65	63	60	56	56	57	56	56	59	60	60	60	61	61	60	59	56	67	61.7
Feb 21	58	59	58	58	58	58	59	58	59	60	59	58	56	54	51	51	51	54	60	62	62	63	64	64	51	64	58.1
Feb 22	63	62	61	61	59	62	62	62	62	62	62	59	55	51	48	47	48	54	59	61	62	64	63	66	47	66	59.0
Feb 23	66	65	64	63	63	63	68	72	74	75	74	74	76	76	76	74	74	74	76	77	78	81	86	85	63	86	73.1
Feb 24	82	77	83	83	83	80	73	77	76	73	70	64	59	58	55	53	55	62	72	78	80	80	80	79	53	83	72.2
Feb 25	80	79	74	71	69	70	71	73	69	64	60	56	53	52	51	50	48	50	56	55	60	62	64	66	48	80	62.6
Feb 26	66	65	63	64	62	62	63	64	61	62	60	49	**44**	49	55	61	61	65	70	75	69	67	72	74	**44**	75	62.6
Feb 27	76	75	73	71	71	71	70	69	70	74	72	72	71	70	70	66	66	71	79	80	80	80	80	78	66	80	73.1
Feb 28	79	79	79	79	78	78	77	77	76	75	73	69	71	71	71	71	71	71	72	74	76	76	77	78	69	79	74.9
Diurnal Maximum	82	81	83	83	84	84	81	87	82	78	74	80	93	97	100	100	90	89	84	91	80	82	86	85			
Diurnal Average	68.7	68.1	67.7	67.2	67.7	67.7	67.5	68.3	67.3	66.6	65.0	63.1	61.7	61.3	61.0	61.3	62.2	64.4	67.1	68.9	68.0	67.9	68.9	69.3			

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

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

Timeseries Chart of Hourly Average for RH - Reno Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

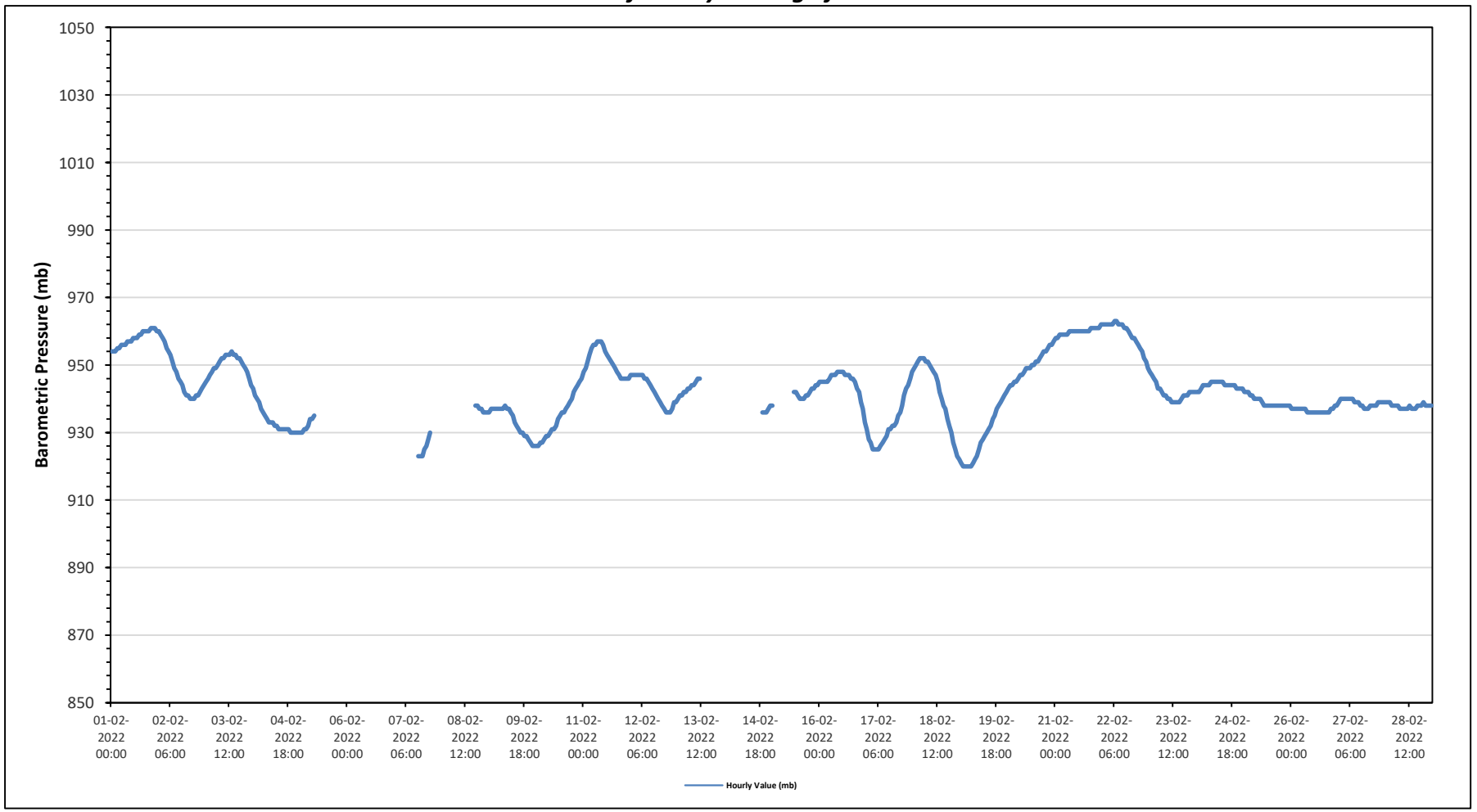
Maximum Hourly Value:	963	mb	on February 22 at hour 6	Hours in Service:	672
Maximum Daily Value:	960	mb	on February 21	Hours of Data:	557
Minimum Hourly Value:	920	mb	on February 19 at hour 1	Hours of Missing Data:	115
Minimum Daily Value:	929	mb	on February 19	Hours of Calibration:	0
Monthly Average:	943	mb		Operational Uptime:	82.9

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
Feb 1	954	954	954	955	955	956	956	956	957	957	957	958	958	958	959	959	960	960	960	960	961	961	961	960	954	961	958
Feb 2	960	959	958	957	955	954	953	951	949	948	946	945	944	942	941	941	940	940	940	941	941	942	943	944	940	960	947
Feb 3	945	946	947	948	949	949	950	951	952	952	953	953	953	954	953	953	952	952	951	950	949	948	946	944	944	954	950
Feb 4	943	941	940	939	937	936	935	934	933	933	933	932	932	931	931	931	931	931	931	930	930	930	930	930	930	943	934
Feb 5	930	930	931	931	932	934	934	935	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	930	935	-
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	923	923	923	925	926	928	930	K	K	K	K	K	923	930	-
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	938	938	937	937	936	936	936	936	938	-
Feb 9	936	937	937	937	937	937	937	937	938	937	937	936	935	933	932	931	930	930	929	929	928	927	926	926	926	938	933
Feb 10	926	926	927	927	928	929	929	930	931	931	932	934	935	936	936	937	938	939	940	942	943	944	945	946	926	946	935
Feb 11	948	949	951	953	955	956	956	957	957	957	956	954	953	952	951	950	949	948	947	946	946	946	946	946	946	957	951
Feb 12	947	947	947	947	947	947	947	946	946	945	944	943	942	941	940	939	938	937	936	936	936	937	939	939	936	947	942
Feb 13	940	941	941	942	942	943	943	944	944	945	946	946	K	K	K	K	K	K	K	K	K	K	K	K	940	946	-
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	936	936	936	937	938	936	938	-
Feb 15	938	K	K	K	K	K	K	K	Y	Y	Y	942	942	941	940	940	940	941	941	942	943	943	944	944	938	944	-
Feb 16	945	945	945	945	945	946	947	947	947	948	948	948	948	947	947	947	946	946	945	943	942	939	937	933	933	948	945
Feb 17	931	928	927	925	925	925	925	926	927	928	929	931	931	932	932	933	935	936	938	941	943	944	946	948	925	948	933
Feb 18	949	950	951	952	952	952	951	951	950	949	948	947	945	942	940	938	937	934	932	930	927	925	923	922	922	952	942
Feb 19	921	**920**	**920**	**920**	**920**	**920**	921	922	923	925	927	928	929	930	931	932	934	935	937	938	939	940	941	942	**920**	942	929
Feb 20	943	944	944	945	945	946	947	947	948	949	949	949	950	950	951	951	952	953	954	954	955	956	956	957	943	957	950
Feb 21	958	958	959	959	959	959	959	960	960	960	960	960	960	960	960	960	960	960	961	961	961	961	961	962	958	962	**960**
Feb 22	962	962	962	962	962	962	**963**	**963**	962	962	962	961	961	960	959	958	958	957	956	955	954	952	951	949	949	**963**	959
Feb 23	948	947	946	945	943	943	942	941	941	940	940	939	939	939	939	939	940	941	941	941	942	942	942	942	939	948	942
Feb 24	942	942	943	944	944	944	944	945	945	945	945	945	945	945	944	944	944	944	944	944	943	943	943	943	942	945	944
Feb 25	942	942	942	941	941	940	940	940	940	939	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	942	939
Feb 26	937	937	937	937	937	937	937	937	936	936	936	936	936	936	936	936	936	936	936	936	937	937	938	938	936	938	937
Feb 27	939	940	940	940	940	940	940	940	939	939	939	938	938	937	937	937	938	938	938	938	939	939	939	939	937	940	939
Feb 28	939	939	939	938	938	938	938	937	937	937	937	937	938	937	937	937	938	938	938	939	938	938	938	938	937	939	938
Diurnal Maximum	962	962	962	962	962	962	963	963	962	962	962	961	961	960	960	960	960	960	961	961	961	961	961	962			
Diurnal Average	943	943	943	943	943	943	943	943	944	944	944	943	942	942	942	942	942	942	942	942	942	942	942	942			

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

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

Timeseries Chart of Hourly Average for BP - Reno Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

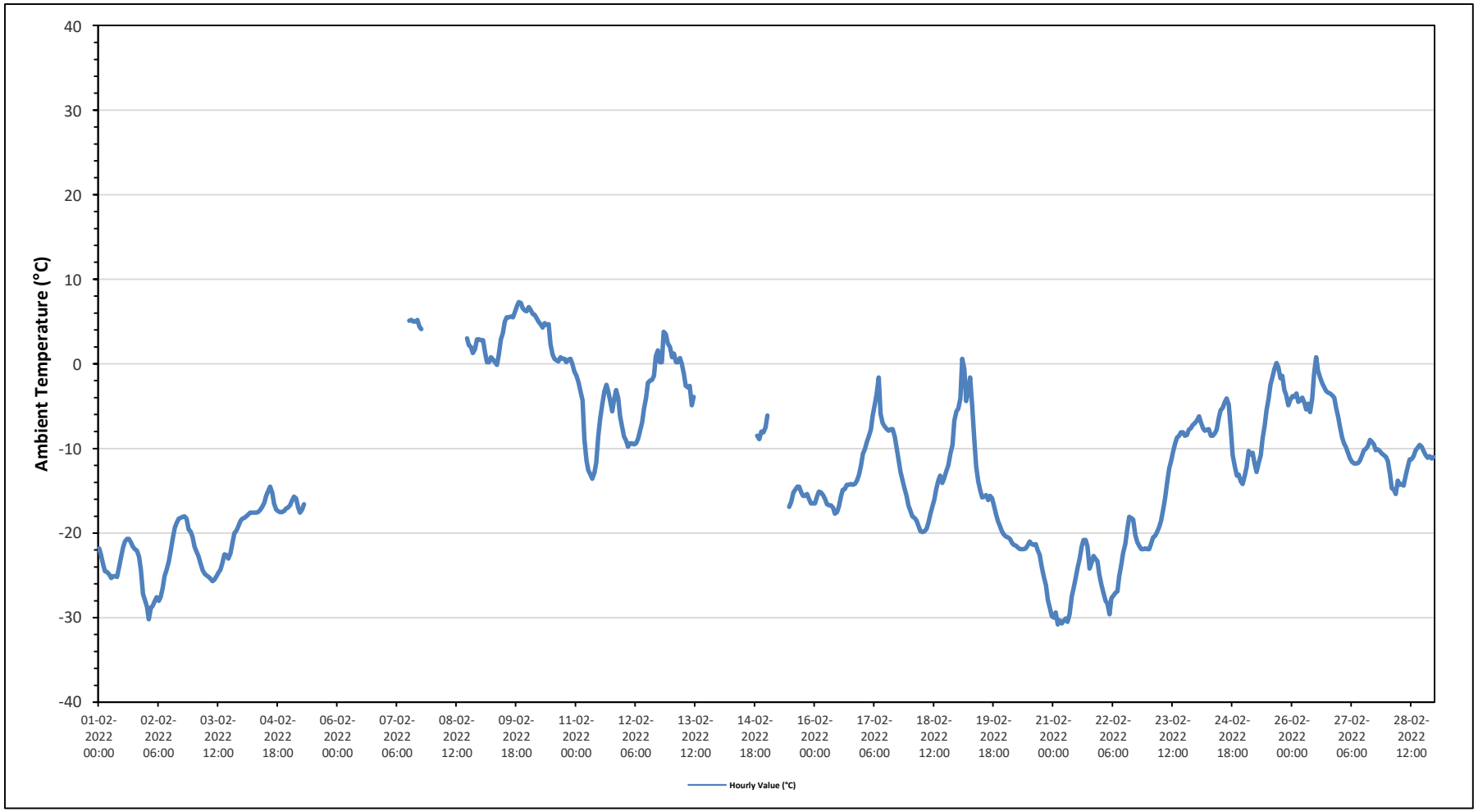
Maximum Hourly Value:	7.3	°C	on February 9 at hour 19	Hours in Service:	672
Maximum Daily Value:	3.7	°C	on February 9	Hours of Data:	557
Minimum Hourly Value:	-30.8	°C	on February 21 at hour 2	Hours of Missing Data:	115
Minimum Daily Value:	-26.0	°C	on February 21	Hours of Calibration:	0
Monthly Average:	-12.2	°C		Operational Uptime:	82.9

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
Feb 1	-21.8	-22.6	-23.7	-24.5	-24.6	-24.9	-25.3	-25.1	-25.1	-25.2	-24	-22.9	-21.7	-21	-20.7	-20.7	-21.1	-21.6	-21.9	-22.1	-22.8	-24.4	-27.2	-27.9	-27.9	-20.7	-23.5
Feb 2	-28.7	-30.2	-28.8	-28.6	-28	-27.6	-28	-27.6	-26.5	-25.1	-24.3	-23.4	-22	-20.7	-19.4	-18.8	-18.3	-18.2	-18.1	-18	-18.3	-19.6	-19.8	-20.5	-30.2	-18.0	-23.3
Feb 3	-21.6	-22.2	-22.7	-23.6	-24.4	-24.8	-25	-25.2	-25.4	-25.7	-25.5	-25.1	-24.7	-24.3	-23.6	-22.5	-22.6	-23	-22.4	-21.1	-20	-19.7	-19.2	-18.6	-25.7	-18.6	-23.0
Feb 4	-18.3	-18.2	-18	-17.8	-17.6	-17.6	-17.6	-17.6	-17.5	-17.3	-16.9	-16.4	-15.6	-15	-14.5	-15.2	-16.5	-17.2	-17.4	-17.5	-17.5	-17.4	-17.1	-17	-18.3	-14.5	-17.0
Feb 5	-16.7	-16.2	-15.7	-15.9	-17	-17.6	-17.2	-16.6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-17.6	-15.7	-
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	5.1	5.2	5	5	5.2	4.4	4.1	K	K	K	K	K	4.1	5.2	-
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	3	2.2	2	1.3	1.7	2.9	2.9	1.3	3.0	-
Feb 9	2.8	2.8	1.3	0.2	0.2	0.8	0.5	0.2	-0.1	1.1	2.9	3.6	5	5.5	5.5	5.6	5.5	6.1	6.8	**7.3**	7.2	6.6	6.3	6.2	-0.1	**7.3**	**3.7**
Feb 10	6.7	6.4	5.9	5.8	5.4	5	4.7	4.3	4.8	4.6	4.7	2.3	1.1	0.6	0.4	0.3	0.8	0.6	0.6	0.2	0.5	0.6	0	-0.9	-0.9	6.7	2.7
Feb 11	-1.4	-2.2	-3.2	-4.3	-8.9	-11.4	-12.6	-13.1	-13.6	-12.9	-11.7	-8.5	-6.5	-4.8	-3.3	-2.5	-3.3	-4.5	-5.6	-4.1	-3.1	-4.1	-6.2	-7.5	-13.6	-1.4	-6.6
Feb 12	-8.6	-9.1	-9.8	-9.4	-9.4	-9.5	-9.4	-8.8	-7.9	-6.9	-5.3	-4	-2.2	-2	-1.9	-1.4	0.9	1.6	0.2	0.2	3.8	3.5	2.4	2	-9.8	3.8	-3.8
Feb 13	0.8	1.2	0.2	0.2	0.7	0	-1.2	-2.6	-2.8	-2.6	-4.9	-3.9	K	K	K	K	K	K	K	K	K	K	K	K	-4.9	1.2	-
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-8.5	-8.9	-8	-8.1	-7.5	-8.9	-7.5	-
Feb 15	-6.1	K	K	K	K	K	K	K	Y	Y	Y	-16.9	-16.3	-15.2	-14.9	-14.5	-14.5	-15.2	-15.6	-15.6	-15.4	-16	-16.5	-16.5	-16.9	-6.1	-
Feb 16	-16.5	-15.7	-15.1	-15.2	-15.5	-16	-16.6	-16.7	-16.7	-17	-17.7	-17.5	-16.9	-15.7	-14.9	-14.8	-14.3	-14.3	-14.2	-14.3	-14.2	-13.8	-13.1	-12.1	-17.7	-12.1	-15.4
Feb 17	-10.6	-10.1	-9.2	-8.6	-7.8	-6.1	-4.8	-3.6	-1.6	-5.9	-7	-7.4	-7.7	-7.9	-7.7	-7.7	-8.6	-9.9	-11.4	-12.8	-13.8	-14.7	-15.6	-16.7	-16.7	-1.6	-9.1
Feb 18	-17.4	-18	-18.2	-18.5	-19.2	-19.8	-19.9	-19.8	-19.5	-18.8	-17.7	-16.9	-16	-14.8	-13.8	-13.2	-14.1	-13.5	-12.7	-12	-10.6	-9.6	-6.7	-5.6	-19.9	-5.6	-15.3
Feb 19	-5.3	-4.1	0.6	-0.6	-4.4	-3.2	-1.6	-5	-8.5	-12.1	-13.9	-15	-15.8	-15.7	-15.5	-16.1	-15.6	-15.9	-16.8	-17.8	-18.6	-19.2	-19.8	-20.2	-20.2	0.6	-11.7
Feb 20	-20.4	-20.5	-20.7	-21.2	-21.4	-21.5	-21.7	-21.9	-21.9	-21.9	-21.8	-21.4	-21	-21.3	-21.4	-21.3	-22	-22.6	-24	-25.2	-26.2	-27.9	-28.9	-29.8	-29.8	-20.4	-22.8
Feb 21	-30	-29.4	**-30.8**	-30.3	-30.7	-30.4	-30.1	-30.5	-29.6	-27.5	-26.4	-25.3	-24	-23.1	-21.6	-20.8	-20.8	-21.6	-24.2	-23.6	-22.7	-23	-23.3	-24.9	**-30.8**	-20.8	-26.0
Feb 22	-26.1	-27.1	-28	-28.3	-29.6	-27.7	-27.4	-27.1	-26.9	-25.1	-23.7	-22.3	-21.3	-19.7	-18.1	-18.2	-18.4	-20.2	-21.1	-21.5	-21.9	-21.9	-21.8	-21.9	-29.6	-18.1	-23.6
Feb 23	-21.9	-21.2	-20.5	-20.3	-19.9	-19.3	-18.6	-17.3	-15.8	-13.9	-12.4	-11.4	-10.4	-9.4	-8.7	-8.5	-8.1	-8.1	-8.5	-8.4	-7.8	-7.6	-7.2	-7	-21.9	-7.0	-13.0
Feb 24	-6.7	-6.2	-6.9	-7.6	-7.9	-7.8	-7.7	-8.5	-8.5	-8.2	-7.8	-6.4	-5.5	-5.2	-4.6	-4.1	-4.8	-7.8	-10.8	-12.1	-13.2	-13.1	-13.9	-14.2	-14.2	-4.1	-8.3
Feb 25	-13.2	-12.2	-10.3	-10.7	-10.5	-11.7	-12.8	-11.7	-10.8	-8.8	-7.3	-5.5	-4.1	-2.5	-1.5	-0.6	0.1	-0.4	-1.7	-1.4	-3.1	-3.7	-4.9	-4.2	-13.2	0.1	-6.4
Feb 26	-3.8	-3.9	-3.5	-4.5	-4.3	-4	-4.6	-5.4	-4.7	-5.7	-4.1	-1.2	0.8	-0.8	-1.6	-2.3	-2.8	-3.2	-3.4	-3.5	-3.7	-4	-5.2	-6.3	-6.3	0.8	-3.6
Feb 27	-7.5	-8.7	-9.4	-9.9	-10.5	-11.2	-11.6	-11.8	-11.8	-11.7	-11.4	-10.8	-10.2	-10	-9.7	-9	-9.2	-9.5	-10.2	-10.1	-10.3	-10.6	-10.8	-11	-11.8	-7.5	-10.3
Feb 28	-11.5	-13	-14.7	-14.9	-15.4	-13.8	-14.3	-14.2	-14.4	-13.2	-12.3	-11.3	-11.3	-10.9	-10.2	-9.9	-9.6	-9.8	-10.3	-10.8	-11.1	-10.9	-11.2	-11	-15.4	-9.6	-12.1
Diurnal Maximum	6.7	6.4	5.9	5.8	5.4	5.0	4.7	4.3	4.8	4.6	4.7	3.6	5.1	5.5	5.5	5.6	5.5	6.1	6.8	7.3	7.2	6.6	6.3	6.2			
Diurnal Average	-12.7	-13.1	-13.1	-13.4	-13.9	-13.9	-14.0	-14.2	-13.9	-13.6	-13.1	-12.5	-11.4	-10.8	-10.3	-10.1	-10.1	-10.0	-10.7	-11.3	-11.3	-11.5	-11.9	-12.1			

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 AT - Reno Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

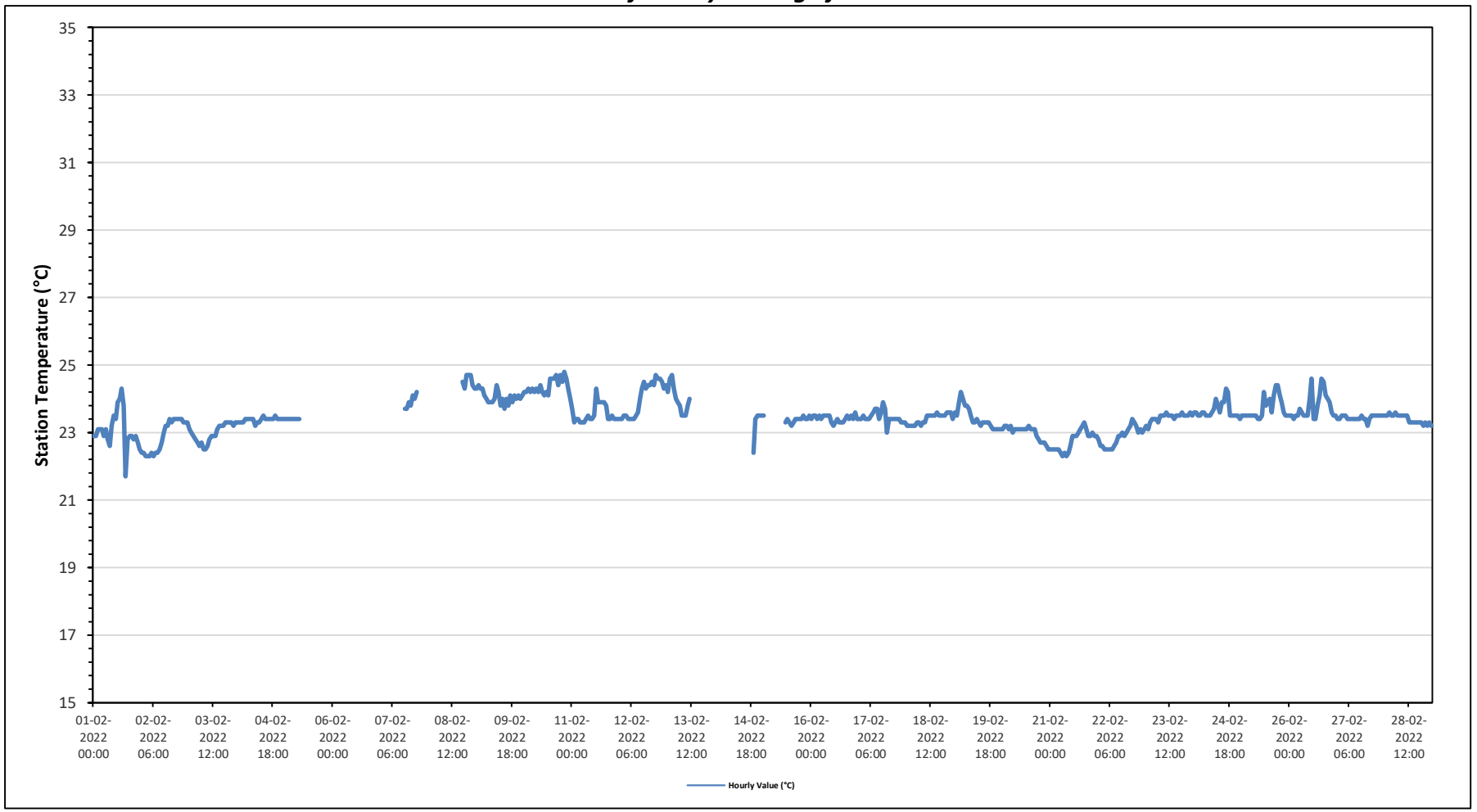
Maximum Hourly Value:	24.8	°C	on February 10 at hour 20	Hours in Service:	672
Maximum Daily Value:	24.4	°C	on February 10	Hours of Data:	557
Minimum Hourly Value:	21.7	°C	on February 1 at hour 16	Hours of Missing Data:	115
Minimum Daily Value:	22.7	°C	on February 21	Hours of Calibration:	0
Monthly Average:	23.5	°C		Operational Uptime:	82.9

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
Feb 1	22.9	22.9	23.1	23.1	23.1	22.9	23.1	22.8	22.6	23.2	23.5	23.4	23.9	24.0	24.3	23.8	**21.7**	22.8	22.9	22.9	22.8	22.9	22.7	22.5	**21.7**	24.3	23.1
Feb 2	22.4	22.4	22.3	22.3	22.3	22.4	22.3	22.4	22.4	22.5	22.7	23.0	23.2	23.2	23.4	23.3	23.4	23.4	23.4	23.4	23.4	23.3	23.3	23.3	22.3	23.4	22.9
Feb 3	23.1	23.0	22.9	22.8	22.7	22.6	22.7	22.5	22.5	22.6	22.8	22.9	22.9	22.9	23.1	23.2	23.2	23.2	23.3	23.3	23.3	23.3	23.2	23.3	22.5	23.3	23.0
Feb 4	23.3	23.3	23.3	23.3	23.4	23.4	23.4	23.4	23.4	23.2	23.3	23.3	23.4	23.5	23.4	23.4	23.4	23.4	23.4	23.5	23.4	23.4	23.4	23.4	23.2	23.5	23.4
Feb 5	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	23.4	23.4	-
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	23.7	23.7	23.9	23.8	24.1	24.0	24.2	K	K	K	K	K	23.7	24.2	-
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	24.5	24.3	24.7	24.7	24.7	24.4	24.3	24.3	24.7	-
Feb 9	24.3	24.4	24.3	24.3	24.1	24.0	23.9	23.9	23.9	24.0	24.4	24.2	23.8	24.0	23.7	24.0	23.8	24.1	23.9	24.1	24.0	24.1	24.0	24.1	23.7	24.4	24.1
Feb 10	24.2	24.2	24.3	24.2	24.3	24.2	24.3	24.2	24.4	24.2	24.1	24.2	24.1	24.6	24.6	24.6	24.7	24.4	24.7	24.5	**24.8**	24.6	24.3	24.0	24.0	**24.8**	**24.4**
Feb 11	23.7	23.3	23.4	23.4	23.3	23.3	23.3	23.4	23.5	23.4	23.4	23.5	24.3	23.9	23.9	23.9	23.9	23.8	23.4	23.4	23.5	23.4	23.4	23.4	23.3	24.3	23.5
Feb 12	23.4	23.4	23.5	23.5	23.4	23.4	23.4	23.4	23.5	23.6	24.0	24.3	24.5	24.3	24.4	24.4	24.5	24.4	24.7	24.6	24.6	24.5	24.3	24.4	23.4	24.7	24.0
Feb 13	24.2	24.6	24.7	24.3	24.0	23.9	23.8	23.5	23.5	23.5	23.8	24.0	K	K	K	K	K	K	K	K	K	K	K	K	23.5	24.7	-
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	22.4	23.4	23.5	23.5	23.5	22.4	23.5	-
Feb 15	23.5	K	K	K	K	K	K	K	Y	Y	Y	23.3	23.4	23.3	23.2	23.3	23.4	23.4	23.4	23.4	23.5	23.4	23.4	23.5	23.2	23.5	-
Feb 16	23.4	23.5	23.5	23.4	23.5	23.4	23.5	23.5	23.5	23.5	23.3	23.2	23.3	23.4	23.3	23.3	23.3	23.4	23.5	23.4	23.5	23.4	23.6	23.4	23.2	23.6	23.4
Feb 17	23.4	23.4	23.5	23.4	23.4	23.4	23.5	23.6	23.7	23.7	23.4	23.6	23.9	23.7	23.0	23.4	23.4	23.4	23.4	23.4	23.4	23.3	23.3	23.3	23.0	23.9	23.5
Feb 18	23.2	23.2	23.2	23.2	23.2	23.3	23.3	23.2	23.3	23.3	23.5	23.5	23.5	23.5	23.5	23.6	23.5	23.5	23.5	23.5	23.6	23.6	23.6	23.4	23.2	23.6	23.4
Feb 19	23.6	23.5	23.9	24.2	24.0	23.8	23.8	23.7	23.5	23.3	23.3	23.4	23.3	23.2	23.3	23.3	23.3	23.3	23.2	23.1	23.1	23.1	23.1	23.1	23.1	24.2	23.4
Feb 20	23.1	23.2	23.2	23.1	23.2	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.2	23.1	23.1	23.1	22.9	22.8	22.7	22.7	22.7	22.6	22.5	22.5	23.2	23.0
Feb 21	22.5	22.5	22.5	22.5	22.5	22.4	22.3	22.4	22.3	22.4	22.6	22.9	22.9	22.9	23.0	23.1	23.2	23.3	23.1	22.9	22.9	23.0	22.9	22.9	22.3	23.3	22.7
Feb 22	22.8	22.6	22.6	22.5	22.5	22.5	22.5	22.5	22.6	22.7	22.9	22.9	23.0	22.9	23.0	23.1	23.2	23.4	23.3	23.2	23.0	23.1	23.0	23.1	22.5	23.4	22.9
Feb 23	23.2	23.1	23.3	23.4	23.4	23.4	23.3	23.5	23.5	23.5	23.6	23.5	23.5	23.5	23.4	23.5	23.5	23.5	23.6	23.5	23.5	23.5	23.6	23.5	23.1	23.6	23.5
Feb 24	23.6	23.6	23.5	23.5	23.6	23.6	23.5	23.5	23.5	23.6	23.7	24.0	23.8	23.6	23.9	23.9	24.3	24.2	23.5	23.5	23.5	23.5	23.5	23.4	23.4	24.3	23.7
Feb 25	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.4	23.4	23.5	24.2	23.8	23.9	24.0	23.6	24.1	24.4	24.4	24.1	23.9	23.6	23.5	23.5	23.4	24.4	23.7
Feb 26	23.5	23.5	23.4	23.5	23.5	23.7	23.6	23.5	23.5	23.5	24.0	24.6	23.4	23.4	23.8	24.1	24.6	24.5	24.1	24.0	23.9	23.6	23.5	23.5	23.4	24.6	23.8
Feb 27	23.4	23.4	23.5	23.5	23.5	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.5	23.4	23.4	23.2	23.4	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.2	23.5	23.4
Feb 28	23.5	23.5	23.6	23.5	23.5	23.6	23.5	23.5	23.5	23.5	23.5	23.5	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.2	23.3	23.2	23.3	23.2	23.2	23.6	23.4
Diurnal Maximum	24.3	24.6	24.7	24.3	24.3	24.2	24.3	24.2	24.4	24.2	24.4	24.6	24.5	24.6	24.6	24.6	24.7	24.5	24.7	24.7	24.8	24.7	24.4	24.4			
Diurnal Average	23.4	23.4	23.4	23.4	23.4	23.3	23.3	23.3	23.3	23.3	23.4	23.6	23.5	23.5	23.6	23.6	23.6	23.7	23.6	23.5	23.6	23.5	23.5	23.4			

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 ST - Reno Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

Summary of Hourly Averages

PRECIPITATION in mm

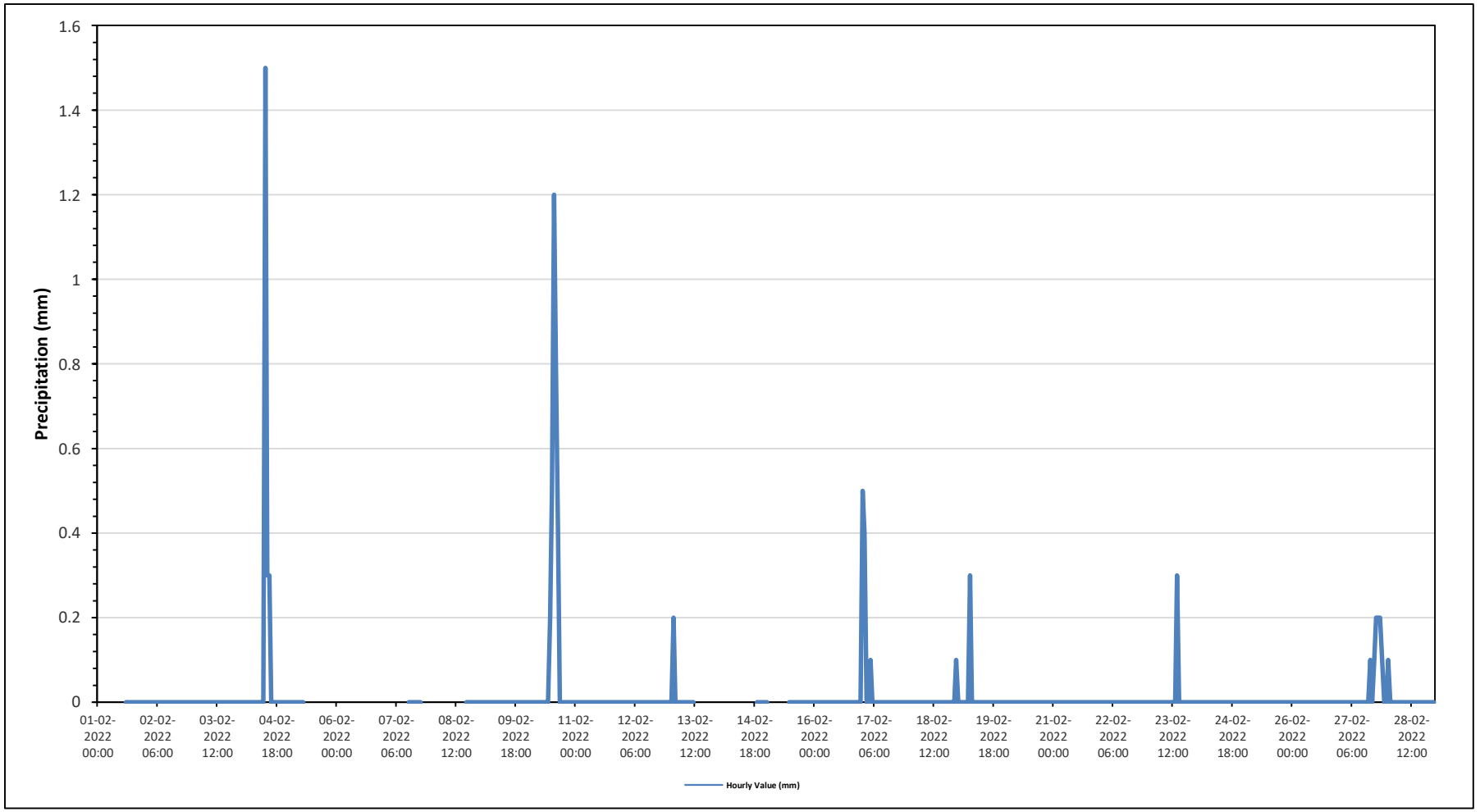
Maximum Hourly Value:	1.5	mm	on February 4 at hour 12	Hours in Service:	672
Maximum Daily Value:	3.1	mm	on February 10	Hours of Data:	543
Minimum Hourly Value:	0.0	mm	on February 1 at hour 14	Hours of Missing Data:	128
Minimum Daily Value:	0.0	mm	on February 2	Hours of Calibration:	1
Monthly Total:	8.1	mm		Operational Uptime:	81.0

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
Feb 1	X	X	X	X	X	X	X	X	X	X	X	X	X	C	0	0	0	0	0	0	0	0	0	0	0.0	0.0	-
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 4	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0.3	0.3	0	0	0	0	0	0	0	0	0	0.0	1.5	2.1
Feb 5	0	0	0	0	0	0	0	0	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0.0	0.0	-
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	0	0	0	0	0	0	0	K	K	K	K	K	0.0	0.0	-
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0	0	0	0	0	0	0	0.0	0.0	-
Feb 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 10	0	0	0	0	0	0	0	0	0	0	0	0.2	0.5	1.2	0.8	0.4	0	0	0	0	0	0	0	0	0.0	1.2	3.1
Feb 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 13	0	0.2	0	0	0	0	0	0	0	0	0	0	K	K	K	K	K	K	K	K	K	K	K	K	0.0	0.2	-
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0	0	0	0	0	0.0	0.0	-
Feb 15	0	K	K	K	K	K	K	K	Y	Y	Y	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	-
Feb 16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 17	0.5	0.4	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	0.5	1.0
Feb 18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.0	0.1	0.1
Feb 19	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	0.0	0.3	0.3
Feb 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0.0	0.3	0.3
Feb 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Feb 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0.2	0.2	0.2	0.1	0	0	0.0	0.2	0.9
Feb 28	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Diurnal Maximum	0.5	0.4	0.0	0.0	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.2	1.5	1.2	0.8	0.4	0.0	0.1	0.2	0.2	0.2	0.1	0.0	0.1			
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	0.1	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 Precipitation - Reno Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

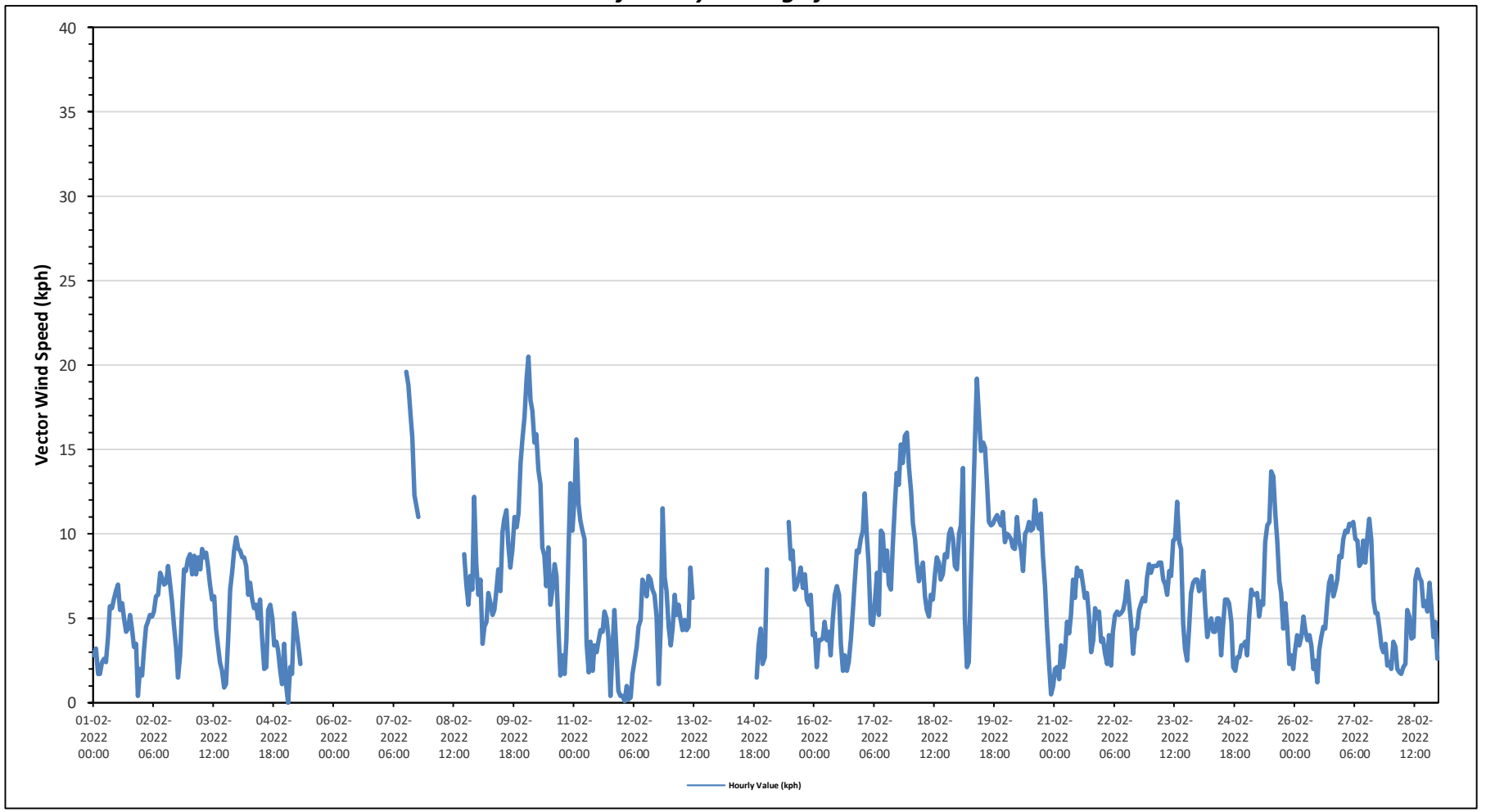
Maximum Hourly Value:	20.5	kph	on February 10 at hour 1	Hours in Service:	672
Maximum Daily Value:	9.0	kph	on February 19	Hours of Data:	557
Minimum Hourly Value:	0.0	kph	on February 5 at hour 1	Hours of Missing Data:	115
Minimum Daily Value:	1.1	kph	on February 26	Hours of Calibration:	0
Monthly Average:	1.3	kph		Operational Uptime:	82.9

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			
Feb 1	2.8	3.2	1.7	1.7	2.4	2.6	2.4	3.9	5.7	5.6	6.1	6.6	7.0	5.5	5.9	5.0	4.2	4.4	5.2	4.3	3.3	3.5	0.4	2.0	0.4	7.0	3.4
Feb 2	1.6	3.1	4.5	4.8	5.2	5.1	5.4	6.3	6.4	7.7	7.4	7.0	7.1	8.1	7.0	6.0	4.5	3.2	1.5	2.8	5.3	7.9	7.8	8.5	1.5	8.5	2.8
Feb 3	8.8	7.6	8.7	7.6	8.6	7.9	9.1	8.6	8.9	8.0	7.0	6.1	6.3	4.4	3.3	2.4	1.9	0.9	1.1	4.0	6.7	7.8	9.0	9.8	0.9	9.8	4.4
Feb 4	9.1	9.0	8.6	8.6	8.1	6.4	7.1	6.1	5.6	5.8	5.0	6.1	3.8	2.0	2.1	5.5	5.8	5.0	3.4	3.6	3.1	1.9	1.1	3.5	1.1	9.1	3.6
Feb 5	1.0	**0.0**	2.1	1.7	5.3	4.4	3.4	2.3	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	**0.0**	5.3	-
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	19.6	18.8	17.1	15.7	12.3	11.7	11.0	K	K	K	K	K	11.0	19.6	-
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	8.8	7.0	5.8	7.5	6.7	12.2	8.2	5.8	12.2	-
Feb 9	6.4	7.3	3.5	4.5	4.8	6.5	5.9	5.2	5.5	6.7	7.9	6.6	10.1	10.9	11.4	9.4	8.0	9.1	11.0	10.4	11.2	14.2	15.6	16.9	3.5	16.9	8.4
Feb 10	19.2	**20.5**	17.9	17.3	15.4	15.9	13.8	12.9	9.2	8.7	6.9	9.2	5.8	6.8	8.2	7.5	4.1	1.6	2.8	1.7	3.8	9.0	13.0	10.2	1.6	**20.5**	8.3
Feb 11	12.2	15.6	11.8	10.8	10.2	9.7	3.5	1.8	3.6	1.9	3.4	3.0	3.7	4.3	4.2	5.4	5.0	3.9	0.4	3.3	5.5	3.0	0.7	0.4	0.4	15.6	2.1
Feb 12	0.4	0.1	1.0	0.2	0.3	1.7	2.5	3.3	4.5	4.9	7.3	6.9	6.3	7.5	7.3	6.7	6.4	5.1	1.1	4.6	11.5	7.4	6.6	4.5	0.1	11.5	2.7
Feb 13	3.4	4.4	6.4	5.2	5.8	5.0	4.3	4.9	4.3	4.5	8.0	6.2	K	K	K	K	K	K	K	K	K	K	K	K	3.4	8.0	-
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	1.5	3.4	4.4	2.3	2.7	1.5	4.4	-
Feb 15	7.9	K	K	K	K	K	K	K	Y	Y	Y	10.7	8.5	9.0	6.7	6.9	7.4	8.0	6.8	7.6	6.1	5.8	6.4	4.0	4.0	10.7	-
Feb 16	4.1	2.1	3.7	3.7	3.8	4.8	3.7	4.2	2.8	4.9	6.4	6.9	6.4	3.5	1.9	2.8	1.9	2.4	3.7	5.5	7.2	9.0	8.9	9.7	1.9	9.7	1.7
Feb 17	10.2	12.4	9.9	8.2	4.7	4.6	6.0	7.7	5.2	10.2	10.0	7.8	9.0	7.0	6.7	9.3	11.7	13.6	12.9	15.3	14.2	15.8	16.0	13.9	4.6	16.0	5.2
Feb 18	12.5	10.6	9.7	8.3	7.2	7.8	8.3	6.3	5.5	5.1	6.4	6.1	7.6	8.6	8.3	7.3	7.6	8.8	8.6	10.0	10.3	9.7	8.1	7.9	5.1	12.5	3.1
Feb 19	10.0	10.5	13.9	5.0	2.1	2.4	7.2	11.4	15.2	19.2	16.9	14.9	15.4	15.1	12.9	10.7	10.5	10.6	10.9	11.1	10.8	10.5	11.3	9.5	2.1	19.2	**9.0**
Feb 20	10.0	9.9	9.7	9.2	9.1	11.0	9.6	9.0	7.8	10.0	10.2	10.7	10.2	10.3	12.0	10.7	10.3	11.2	8.7	6.9	4.6	2.4	0.5	1.0	0.5	12.0	8.4
Feb 21	2.0	2.1	1.4	3.4	2.1	3.0	4.8	4.1	5.2	7.3	6.2	8.0	7.5	7.8	7.0	6.2	6.5	5.1	3.0	3.7	5.6	5.0	5.4	3.6	1.4	8.0	4.7
Feb 22	3.8	2.9	2.3	4.0	2.2	4.2	5.2	5.4	5.2	5.3	5.5	6.1	7.2	5.9	4.6	2.9	4.3	4.4	5.5	5.9	6.2	6.0	7.4	8.2	2.2	8.2	4.4
Feb 23	7.7	8.1	8.1	8.1	8.3	8.3	7.3	7.0	6.4	7.8	7.5	9.6	9.7	11.9	9.5	9.1	4.7	3.2	2.5	4.5	6.5	7.1	7.3	7.3	2.5	11.9	5.7
Feb 24	6.6	6.8	7.8	5.7	3.9	4.5	5.0	4.2	4.2	5.0	5.0	2.8	4.5	6.1	6.1	5.9	4.8	2.1	1.9	2.7	2.7	3.4	3.4	3.6	1.9	7.8	3.1
Feb 25	2.8	5.1	6.7	6.4	6.4	6.5	5.1	6.0	5.8	9.5	10.5	10.7	13.7	13.4	11.1	9.6	7.2	6.5	4.4	5.9	4.5	2.3	2.8	2.0	2.0	13.7	6.4
Feb 26	3.1	4.0	3.4	3.9	5.1	4.3	3.7	4.0	3.4	2.0	2.5	1.2	3.1	3.9	4.5	4.4	6.0	7.1	7.5	6.3	6.7	7.3	8.7	8.6	1.2	8.7	**1.1**
Feb 27	9.7	10.2	10.1	10.6	10.5	10.7	9.7	9.6	8.1	8.3	9.6	8.3	9.7	10.9	9.6	6.1	5.3	5.3	4.4	3.3	3.0	3.5	2.2	2.4	2.2	10.9	6.8
Feb 28	2.0	3.6	3.3	2.0	1.8	1.7	2.1	2.3	5.5	5.1	3.8	3.9	7.3	7.9	7.4	7.2	5.7	6.0	5.4	7.1	5.7	3.9	4.8	2.6	1.7	7.9	3.2
Diurnal Maximum	19	21	18	17	15	16	14	13	15	19	17	15	20	19	17	16	12	14	13	15	14	16	16	17			
Diurnal Average	6.6	6.9	6.8	6.1	5.8	6.0	5.9	5.9	6.1	7.0	7.3	7.2	8.2	8.2	7.6	7.1	6.4	6.2	5.4	5.7	6.5	6.6	6.7	6.3			

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

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

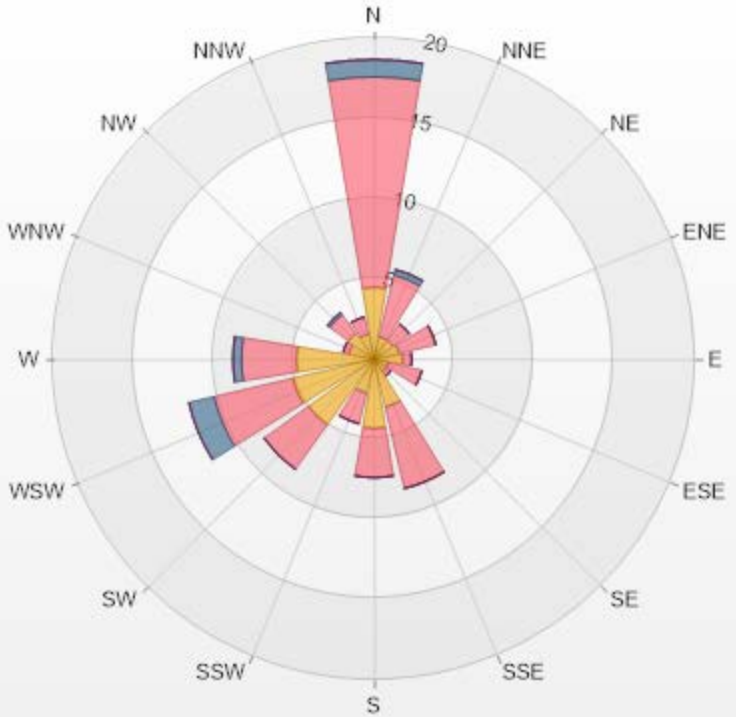
Timeseries Chart of Hourly Average for VWS - Reno Station



Wind: PRAMP RENO Monitor: WDS [KPH] Monthly: 02-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 5.21% Valid Data: 82.89%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	4.49	13.11	1.08	0	0	18.68
NNE	1.44	3.95	0.36	0	0	5.75
NE	1.44	1.26	0	0	0	2.7
ENE	1.62	2.33	0	0	0	3.95
E	1.8	0.54	0	0	0	2.34
ESE	0.9	2.15	0	0	0	3.05
SE	0.9	0.36	0	0	0	1.26
SSE	3.05	5.21	0	0	0	8.26
S	4.31	3.05	0	0	0	7.36
SSW	2.15	1.97	0	0	0	4.12
SW	5.03	3.41	0	0	0	8.44
WSW	5.21	5.03	1.62	0	0	11.86
W	4.85	3.41	0.54	0	0	8.8
WNW	1.62	0.36	0	0	0	1.98
NW	1.97	1.44	0.18	0	0	3.59
NNW	1.62	1.08	0	0	0	2.7
Summary	42.4	48.66	3.78	0	0	94.84

PRAMP RENO 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 5.21% Calm Wind Avg Speed: 1.02(KPH)



% Icon Classes (KPH)	42 1.8-6.0	49 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

Reno Station - February 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

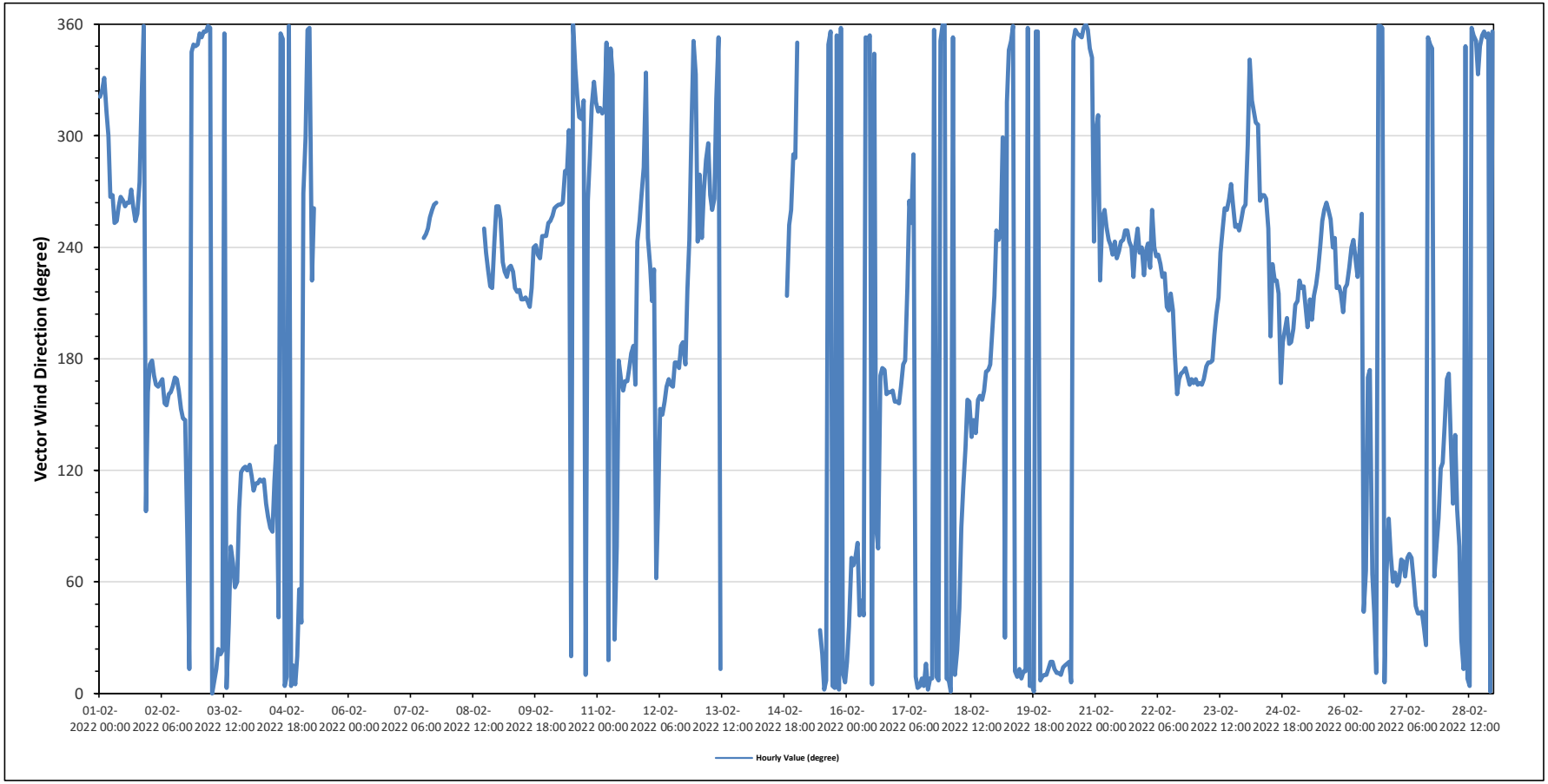
Monthly Average:	293 (WNW) degree	Hours in Service:	672
		Hours of Data:	557
		Hours of Missing Data:	115
		Hours of Calibration:	0
		Operational Uptime:	82.9

Day	Hourly Period Starting at (MST)																							Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Feb 1	NW	NW	NNW	NW	WNW	W	W	WSW	WSW	W	W	W	W	W	W	W	W	WSW	WSW	W	NW	N	E	SSE	272	W
Feb 2	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	E	NNE	NNW	NNW	NNW	NNW	159	SSE
Feb 3	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	N	N	NE	ENE	ENE	ENE	ENE	E	ESE	ESE	ESE	ESE	28	NNE
Feb 4	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	ESE	SE	NE	N	N	N	N	N	N	NNE	N	NNE	88	E
Feb 5	NE	NE	W	WNW	N	N	SW	W	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	NW
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K		
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	WSW	WSW	WSW	WSW	WSW	W	W	K	K	K	K	K	-	WSW
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	WSW	SW	SW	SW	SW	WSW	W	-	SW
Feb 9	W	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW	231	SW
Feb 10	WSW	WSW	WSW	W	W	W	W	W	W	W	WNW	NNE	N	NNW	NW	NW	NW	NW	N	W	WNW	NW	NNW	NW	284	WNW
Feb 11	NW	NW	NW	NW	N	NNE	NNW	NNW	NNE	ENE	S	SSE	SSE	SSE	SSE	S	S	S	SSE	WSW	WSW	W	W	NNW	303	WNW
Feb 12	WSW	SW	SSW	SW	ENE	ESE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	SW	WSW	NW	N	NNW	190	S
Feb 13	WSW	W	WSW	W	WNW	WNW	W	WSW	W	NW	N	NNE	K	K	K	K	K	K	K	K	K	K	K	K	-	WNW
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	SSW	WSW	WSW	WNW	WNW	-	W
Feb 15	N	K	K	K	K	K	K	K	Y	Y	Y	NE	NNE	N	N	NNW	N	N	N	N	N	N	NNE	N	-	N
Feb 16	NNE	NE	ENE	ENE	ENE	E	NE	NE	NE	N	N	N	N	NNW	E	ENE	S	S	S	SSE	SSE	SSE	SSE	SSE	90	E
Feb 17	SSE	SSE	SSE	S	S	SW	W	WSW	WNW	N	N	N	N	N	NNE	N	N	N	N	N	N	N	N	N	1	N
Feb 18	N	N	N	N	N	NNE	NE	E	ESE	SE	SSE	SSE	SE	SE	SE	SSE	SSE	SSE	SSE	S	S	S	SSW	SSW	132	SE
Feb 19	WSW	WSW	WSW	WNW	NNE	NW	NNW	N	N	NNE	N	NNE	N	NNE	NNE	N	N	N	N	N	N	N	N	N	355	N
Feb 20	N	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	NNW	NNW	WSW	6	N
Feb 21	WNW	NW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	SW	WSW	SW	244	WSW
Feb 22	SW	WSW	SW	WSW	WSW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	S	SSE	SSE	S	S	S	S	SSE	SSE	SSE	200	SSW
Feb 23	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	SSW	SSW	SW	WSW	W	WSW	W	W	W	WSW	WSW	WSW	WSW	W	215	SSW
Feb 24	W	WNW	NNW	NW	NW	NW	NW	W	W	W	W	WSW	S	SW	SW	SW	SSW	SSE	S	SSW	SSW	S	S	SSW	254	WSW
Feb 25	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	231	SW
Feb 26	SW	SW	SW	WSW	WSW	SW	SW	SW	WSW	NE	ENE	SSE	S	ENE	NE	NNE	N	N	N	N	ENE	E	ENE	ENE	29	NNE
Feb 27	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NNE	N	NNW	NNW	ENE	E	E	ESE	ESE	55	NE
Feb 28	SE	SSE	S	SE	E	SE	E	ENE	NNE	NNE	NNW	N	N	N	N	N	NNW	NNW	N	N	N	N	N	N	5	N

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



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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	20.5	kph	on February 10 at hour 1	Hours in Service:	672
Maximum Daily Value:	9.0	kph	on February 19	Hours of Data:	557
Minimum Hourly Value:	0.0	kph	on February 5 at hour 1	Hours of Missing Data:	115
Minimum Daily Value:	1.1	kph	on February 26	Hours of Calibration:	0
Monthly Average:	1.3	kph		Operational Uptime:	82.9

WIND DIRECTION

Monthly Average: 293 (WNW degree

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	2.8	3.2	1.7	1.7	2.4	2.6	2.4	3.9	5.7	5.6	6.1	6.6	7.0	5.5	5.9	5.0	4.2	4.4	5.2	4.3	3.3	3.5	0.4	2.0	0.4	7.0	3.4
	NW	NW	NNW	NW	WNW	W	W	WSW	WSW	W	W	W	W	W	W	W	W	WSW	WSW	W	NW	N	E	SSE			
Feb 2	1.6	3.1	4.5	4.8	5.2	5.1	5.4	6.3	6.4	7.7	7.4	7.0	7.1	8.1	7.0	6.0	4.5	3.2	1.5	2.8	5.3	7.9	7.8	8.5	1.5	8.5	2.8
	S	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SE	E	NNE	NNW	NNW	NNW	NNW			
Feb 3	8.8	7.6	8.7	7.6	8.6	7.9	9.1	8.6	8.9	8.0	7.0	6.1	6.3	4.4	3.3	2.4	1.9	0.9	1.1	4.0	6.7	7.8	9.0	9.8	0.9	9.8	4.4
	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	N	N	NE	ENE	ENE	ENE	ENE	E	ESE	ESE	ESE	ESE			
Feb 4	9.1	9.0	8.6	8.6	8.1	6.4	7.1	6.1	5.6	5.8	5.0	6.1	3.8	2.0	2.1	5.5	5.8	5.0	3.4	3.6	3.1	1.9	1.1	3.5	1.1	9.1	3.6
	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	E	ESE	SE	NE	N	N	N	N	N	N	NNE	N	NNE			
Feb 5	1.0	**0.0**	2.1	1.7	5.3	4.4	3.4	2.3	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	**0.0**	5.3	-
	NE	NE	W	WNW	N	N	SW	W	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K			
Feb 6	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-	-
	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K			
Feb 7	K	K	K	K	K	K	K	K	K	K	K	K	19.6	18.8	17.1	15.7	12.3	11.7	11.0	K	K	K	K	K	11.0	19.6	-
	K	K	K	K	K	K	K	K	K	K	K	K	WSW	WSW	WSW	WSW	WSW	W	W	K	K	K	K	K			
Feb 8	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	8.8	7.0	5.8	7.5	6.7	12.2	8.2	5.8	12.2	-
	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	WSW	SW	SW	SW	SW	WSW	W			
Feb 9	6.4	7.3	3.5	4.5	4.8	6.5	5.9	5.2	5.5	6.7	7.9	6.6	10.1	10.9	11.4	9.4	8.0	9.1	11.0	10.4	11.2	14.2	15.6	16.9	3.5	16.9	8.4
	W	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	SW	SW	WSW	WSW	WSW			
Feb 10	19.2	**20.5**	17.9	17.3	15.4	15.9	13.8	12.9	9.2	8.7	6.9	9.2	5.8	6.8	8.2	7.5	4.1	1.6	2.8	1.7	3.8	9.0	13.0	10.2	1.6	**20.5**	8.3
	WSW	WSW	WSW	W	W	W	W	W	W	W	WNW	NNE	N	NNW	NW	NW	NW	NW	N	W	WNW	NW	NNW	NW			
Feb 11	12.2	15.6	11.8	10.8	10.2	9.7	3.5	1.8	3.6	1.9	3.4	3.0	3.7	4.3	4.2	5.4	5.0	3.9	0.4	3.3	5.5	3.0	0.7	0.4	0.4	15.6	2.1
	NW	NW	NW	NW	N	NNE	NNW	NNW	NNE	ENE	S	SSE	SSE	SSE	SSE	S	S	S	SSE	WSW	WSW	W	W	NNW			
Feb 12	0.4	0.1	1.0	0.2	0.3	1.7	2.5	3.3	4.5	4.9	7.3	6.9	6.3	7.5	7.3	6.7	6.4	5.1	1.1	4.6	11.5	7.4	6.6	4.5	0.1	11.5	2.7
	WSW	SW	SSW	SW	ENE	ESE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	S	SW	WSW	NW	N	NNW			
Feb 13	3.4	4.4	6.4	5.2	5.8	5.0	4.3	4.9	4.3	4.5	8.0	6.2	K	K	K	K	K	K	K	K	K	K	K	K	3.4	8.0	-
	WSW	W	WSW	W	WNW	WNW	W	WSW	W	NW	N	NNE	K	K	K	K	K	K	K	K	K	K	K	K			
Feb 14	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	1.5	3.4	4.4	2.3	2.7	1.5	4.4	-
	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	SSW	WSW	WSW	WNW	WNW			
Feb 15	7.9	K	K	K	K	K	K	K	Y	Y	Y	10.7	8.5	9.0	6.7	6.9	7.4	8.0	6.8	7.6	6.1	5.8	6.4	4.0	4.0	10.7	-
	N	K	K	K	K	K	K	K	Y	Y	Y	NE	NNE	N	N	NNW	N	N	N	N	N	N	NNE	N			
Feb 16	4.1	2.1	3.7	3.7	3.8	4.8	3.7	4.2	2.8	4.9	6.4	6.9	6.4	3.5	1.9	2.8	1.9	2.4	3.7	5.5	7.2	9.0	8.9	9.7	1.9	9.7	1.7
	NNE	NE	ENE	ENE	ENE	E	NE	NE	NE	N	N	N	N	NNW	E	ENE	S	S	S	SSE	SSE	SSE	SSE	SSE			
Feb 17	10.2	12.4	9.9	8.2	4.7	4.6	6.0	7.7	5.2	10.2	10.0	7.8	9.0	7.0	6.7	9.3	11.7	13.6	12.9	15.3	14.2	15.8	16.0	13.9	4.6	16.0	5.2
	SSE	SSE	SSE	S	S	SW	W	WSW	WNW	N	N	N	N	N	NNE	N	N	N	N	N	N	N	N	N			
Feb 18	12.5	10.6	9.7	8.3	7.2	7.8	8.3	6.3	5.5	5.1	6.4	6.1	7.6	8.6	8.3	7.3	7.6	8.8	8.6	10.0	10.3	9.7	8.1	7.9	5.1	12.5	3.1
	N	N	N	N	N	NNE	NE	E	ESE	SE	SSE	SSE	SE	SE	SE	SSE	SSE	SSE	SSE	S	S	S	SSW	SSW			
Feb 19	10.0	10.5	13.9	5.0	2.1	2.4	7.2	11.4	15.2	19.2	16.9	14.9	15.4	15.1	12.9	10.7	10.5	10.6	10.9	11.1	10.8	10.5	11.3	9.5	2.1	19.2	**9.0**
	WSW	WSW	WSW	WNW	NNE	NW	NNW	N	N	NNE	N	NNE	N	NNE	NNE	N	N	N	N	N	N	N	N	N			
Feb 20	10.0	9.9	9.7	9.2	9.1	11.0	9.6	9.0	7.8	10.0	10.2	10.7	10.2	10.3	12.0	10.7	10.3	11.2	8.7	6.9	4.6	2.4	0.5	1.0	0.5	12.0	8.4
	N	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	NNW	NNW	WSW			

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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - February 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	20.5	kph	on February 10 at hour 1	Hours in Service:	672
Maximum Daily Value:	9.0	kph	on February 19	Hours of Data:	557
Minimum Hourly Value:	0.0	kph	on February 5 at hour 1	Hours of Missing Data:	115
Minimum Daily Value:	1.1	kph	on February 26	Hours of Calibration:	0
Monthly Average:	1.3	kph		Operational Uptime:	82.9

WIND DIRECTION

Monthly Average: 293 (WNW degree

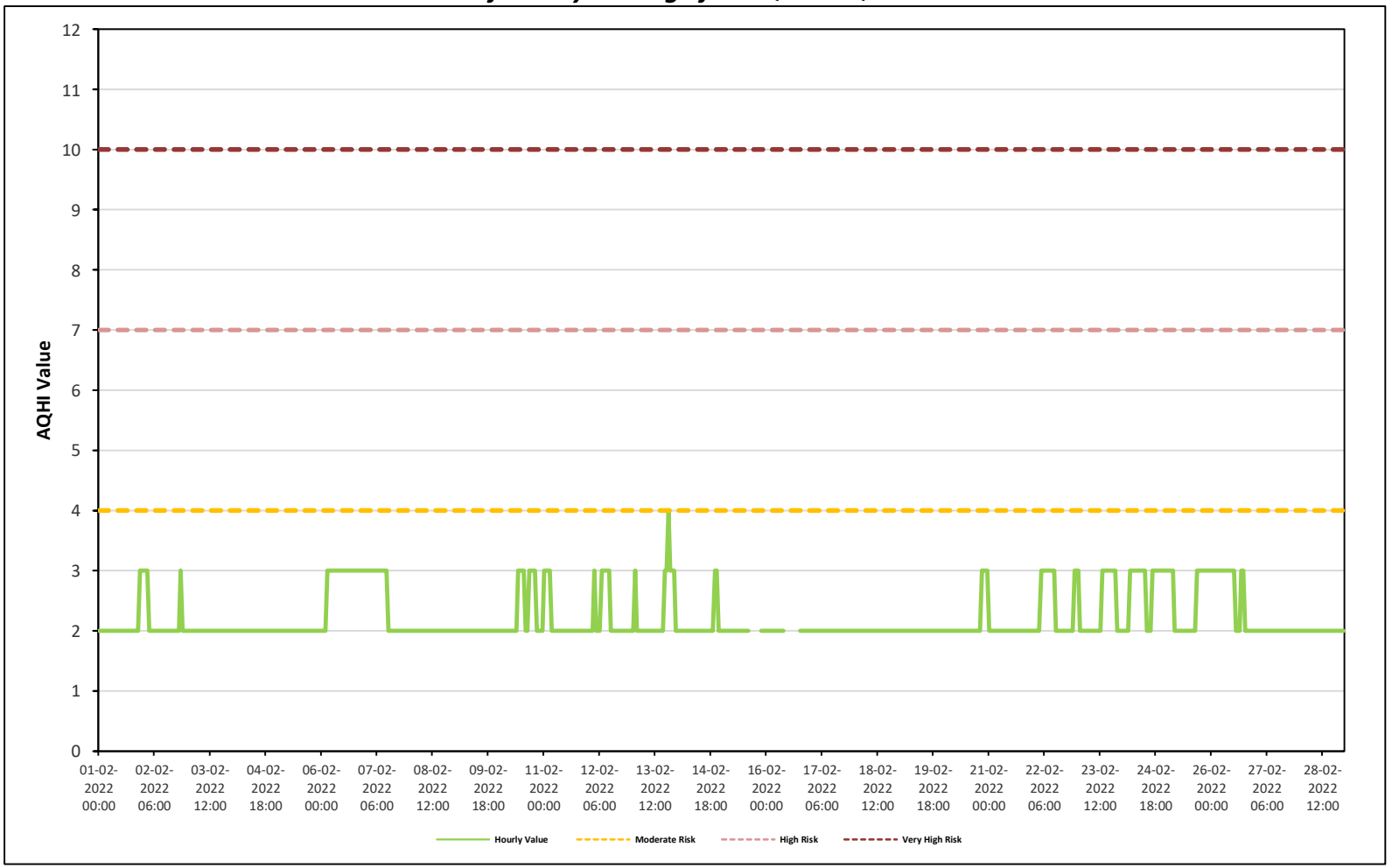
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 21	2.0	2.1	1.4	3.4	2.1	3.0	4.8	4.1	5.2	7.3	6.2	8.0	7.5	7.8	7.0	6.2	6.5	5.1	3.0	3.7	5.6	5.0	5.4	3.6	1.4	8.0	4.7
	WNW	NW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	SW	WSW	SW			
Feb 22	3.8	2.9	2.3	4.0	2.2	4.2	5.2	5.4	5.2	5.3	5.5	6.1	7.2	5.9	4.6	2.9	4.3	4.4	5.5	5.9	6.2	6.0	7.4	8.2	2.2	8.2	4.4
	SW	WSW	SW	WSW	WSW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	S	SSE	SSE	S	S	S	S	SSE	SSE	SSE			
Feb 23	7.7	8.1	8.1	8.1	8.3	8.3	7.3	7.0	6.4	7.8	7.5	9.6	9.7	11.9	9.5	9.1	4.7	3.2	2.5	4.5	6.5	7.1	7.3	7.3	2.5	11.9	5.7
	SSE	SSE	SSE	SSE	SSE	S	S	S	S	S	SSW	SSW	SW	WSW	W	WSW	W	W	W	WSW	WSW	WSW	WSW	W			
Feb 24	6.6	6.8	7.8	5.7	3.9	4.5	5.0	4.2	4.2	5.0	5.0	2.8	4.5	6.1	6.1	5.9	4.8	2.1	1.9	2.7	2.7	3.4	3.4	3.6	1.9	7.8	3.1
	W	WNW	NNW	NW	NW	NW	NW	W	W	W	W	WSW	S	SW	SW	SW	SSW	SSE	S	SSW	SSW	S	S	SSW			
Feb 25	2.8	5.1	6.7	6.4	6.4	6.5	5.1	6.0	5.8	9.5	10.5	10.7	13.7	13.4	11.1	9.6	7.2	6.5	4.4	5.9	4.5	2.3	2.8	2.0	2.0	13.7	6.4
	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW			
Feb 26	3.1	4.0	3.4	3.9	5.1	4.3	3.7	4.0	3.4	2.0	2.5	1.2	3.1	3.9	4.5	4.4	6.0	7.1	7.5	6.3	6.7	7.3	8.7	8.6	1.2	8.7	**1.1**
	SW	SW	SW	WSW	WSW	SW	SW	SW	WSW	NE	ENE	SSE	S	ENE	NE	NNE	N	N	N	N	ENE	E	ENE	ENE			
Feb 27	9.7	10.2	10.1	10.6	10.5	10.7	9.7	9.6	8.1	8.3	9.6	8.3	9.7	10.9	9.6	6.1	5.3	5.3	4.4	3.3	3.0	3.5	2.2	2.4	2.2	10.9	6.8
	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NNE	N	NNW	NNW	ENE	E	E	ESE	ESE			
Feb 28	2.0	3.6	3.3	2.0	1.8	1.7	2.1	2.3	5.5	5.1	3.8	3.9	7.3	7.9	7.4	7.2	5.7	6.0	5.4	7.1	5.7	3.9	4.8	2.6	1.7	7.9	3.2
	SE	SSE	S	SE	E	SE	E	ENE	NNE	NNE	NNW	N	N	N	N	N	NNW	NNW	N	N	N	N	N	N			

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 GRIMSHAW STATION

Timeseries Chart of Hourly Average for AQHI - AQHI - Grimshaw Station



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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

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

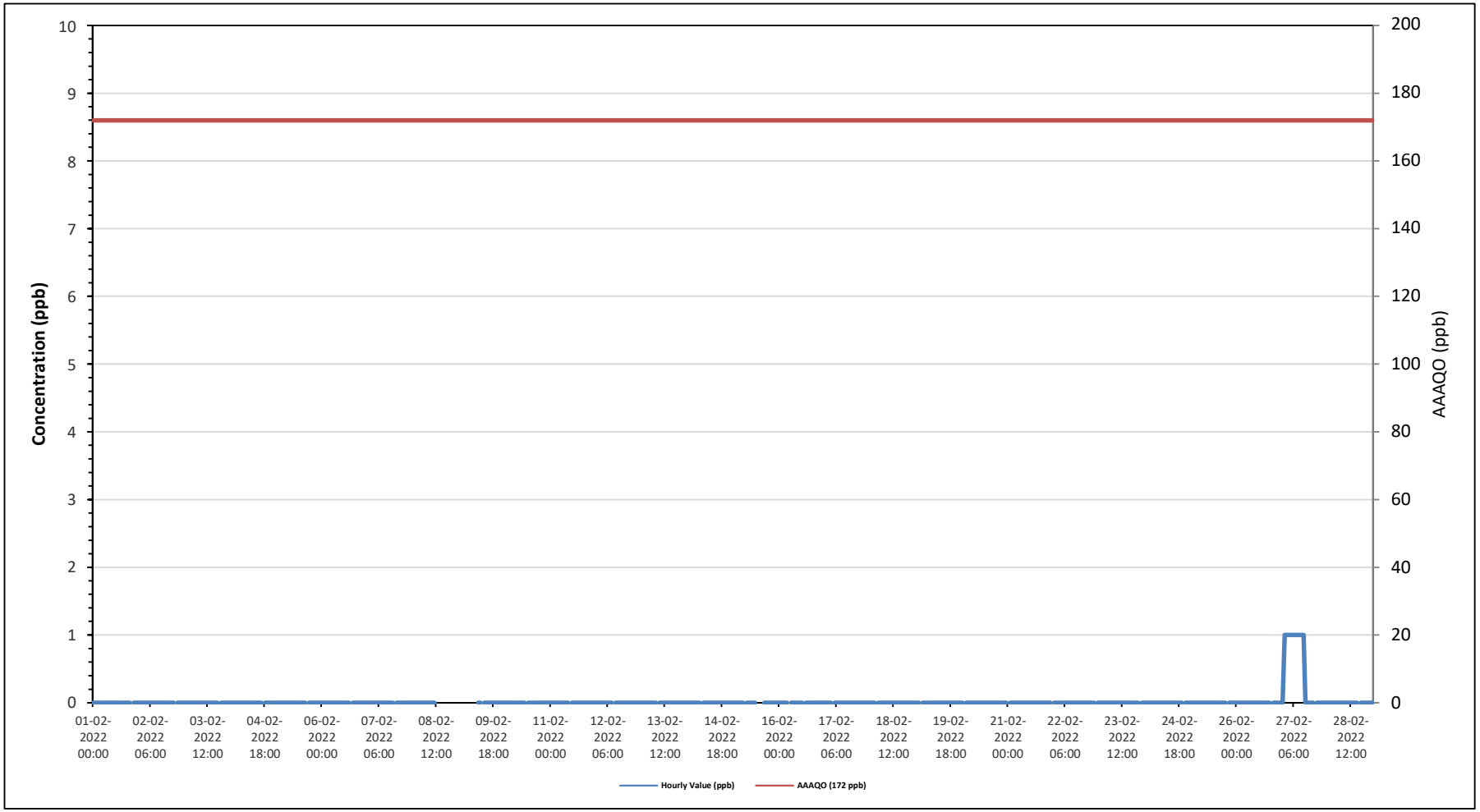
Maximum Hourly Value:	1 ppb	on February 27 at hour 1	Hours in Service:	672
Maximum Daily Value:	0.5 ppb	on February 27	Hours of Data:	617
Minimum Hourly Value:	0 ppb	on February 1 at hour 0	Hours of Missing Data:	23
Minimum Daily Value:	0.0 ppb	on February 1	Hours of Calibration:	32
Monthly Average:	0.0 ppb		Operational Uptime:	96.6

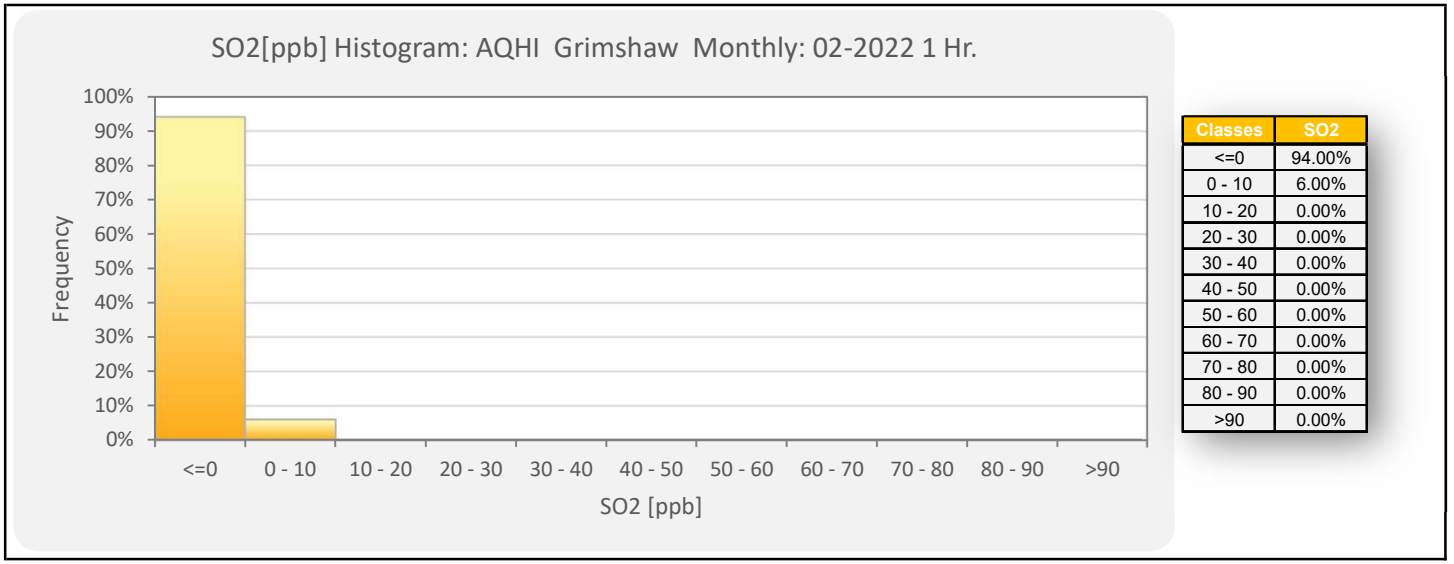
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0.0
Feb 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0.0
Feb 3	0	0	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
Feb 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
Feb 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
Feb 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0.0
Feb 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 8	0	0	0	0	0	0	0	0	0	0	0	0	X	X	X	X	X	X	X	X	X	X	X	X	0	0	-
Feb 9	X	X	X	X	X	X	X	X	X	NRM	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Feb 10	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 11	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 12	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 13	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 14	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 15	0	0	0	0	0	0	S	0	0	0	0	0	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0.0
Feb 16	0	0	0	0	0	S	0	0	0	0	0	0	0	Y	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 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
Feb 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
Feb 19	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Feb 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
Feb 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
Feb 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
Feb 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
Feb 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
Feb 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
Feb 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
Feb 27	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	S	0	0	0	0	0	0	0	1	0.5
Feb 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
Diurnal Maximum	0	1	1	1	1	1	1	1	1	1	1	1	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 - AQHI - Grimshaw Station

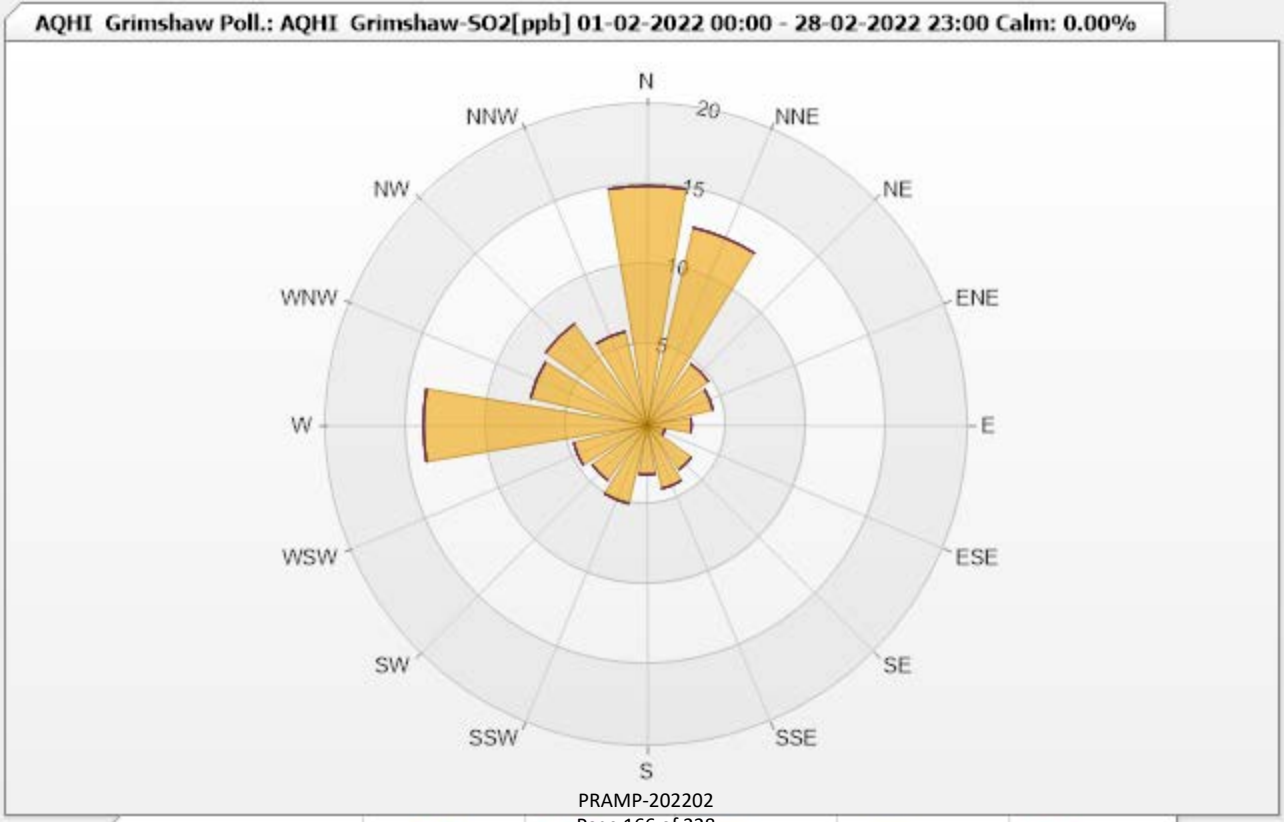




Classes	SO2
<=0	94.00%
0 - 10	6.00%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 91.82% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	14.91	0	0	0	0	14.91
NNE	12.64	0	0	0	0	12.64
NE	4.7	0	0	0	0	4.7
ENE	4.21	0	0	0	0	4.21
E	2.76	0	0	0	0	2.76
ESE	1.13	0	0	0	0	1.13
SE	3.4	0	0	0	0	3.4
SSE	4.05	0	0	0	0	4.05
S	3.08	0	0	0	0	3.08
SSW	5.02	0	0	0	0	5.02
SW	4.21	0	0	0	0	4.21
WSW	4.7	0	0	0	0	4.7
W	13.94	0	0	0	0	13.94
WNW	7.46	0	0	0	0	7.46
NW	7.78	0	0	0	0	7.78
NNW	6	0	0	0	0	6
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppb)
100 0-10
0 10-50
0 50-100
0 100-172
0 >172.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

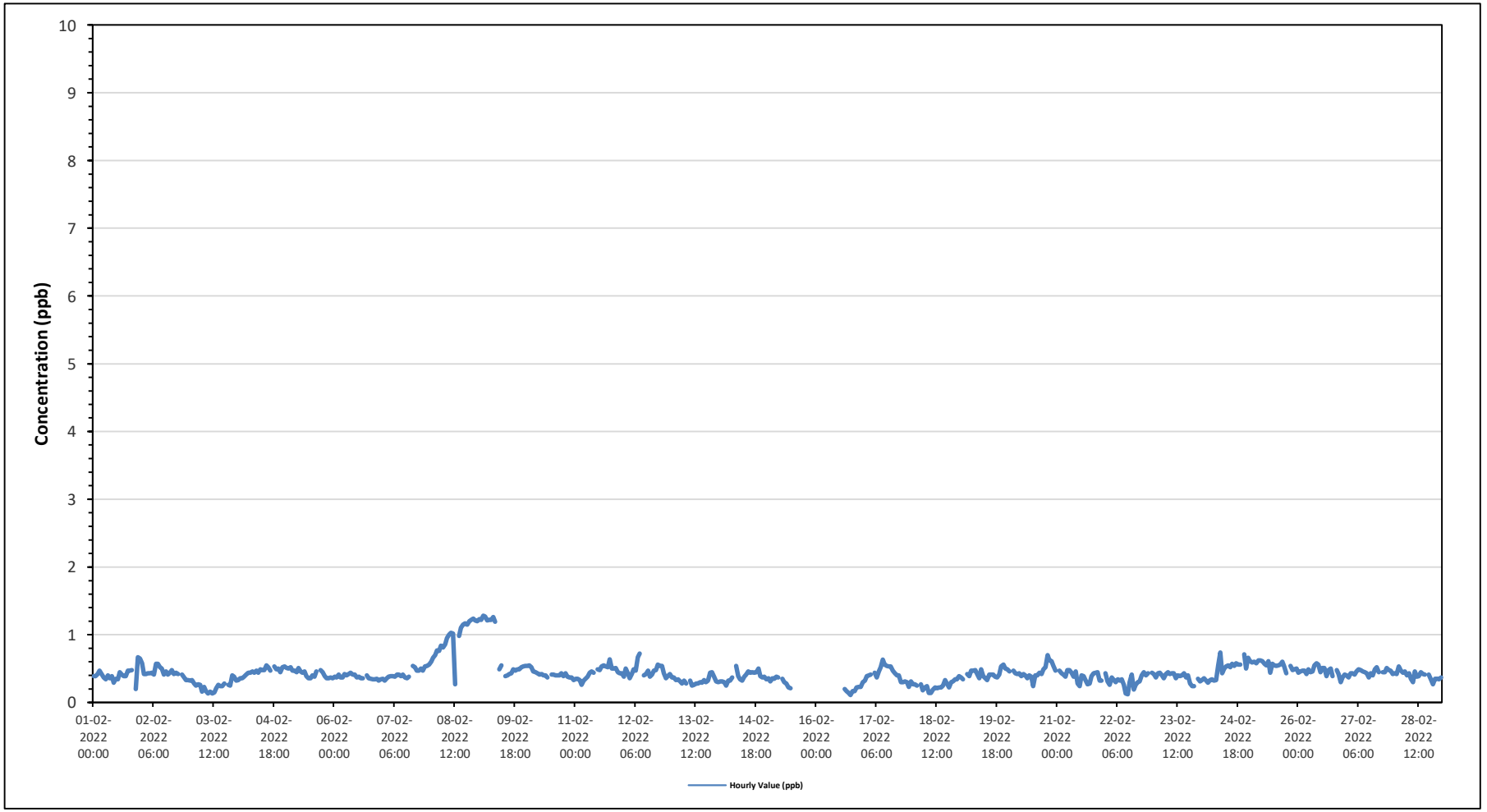
Maximum Hourly Value:	1.28	ppb	on February 9 at hour 2	Hours in Service:	672
Maximum Daily Value:	0.95	ppb	on February 8	Hours of Data:	618
Minimum Hourly Value:	0.11	ppb	on February 16 at hour 17	Hours of Missing Data:	19
Minimum Daily Value:	0.25	ppb	on February 3	Hours of Calibration:	35
Monthly Average:	0.44	ppb		Operational Uptime:	97.2

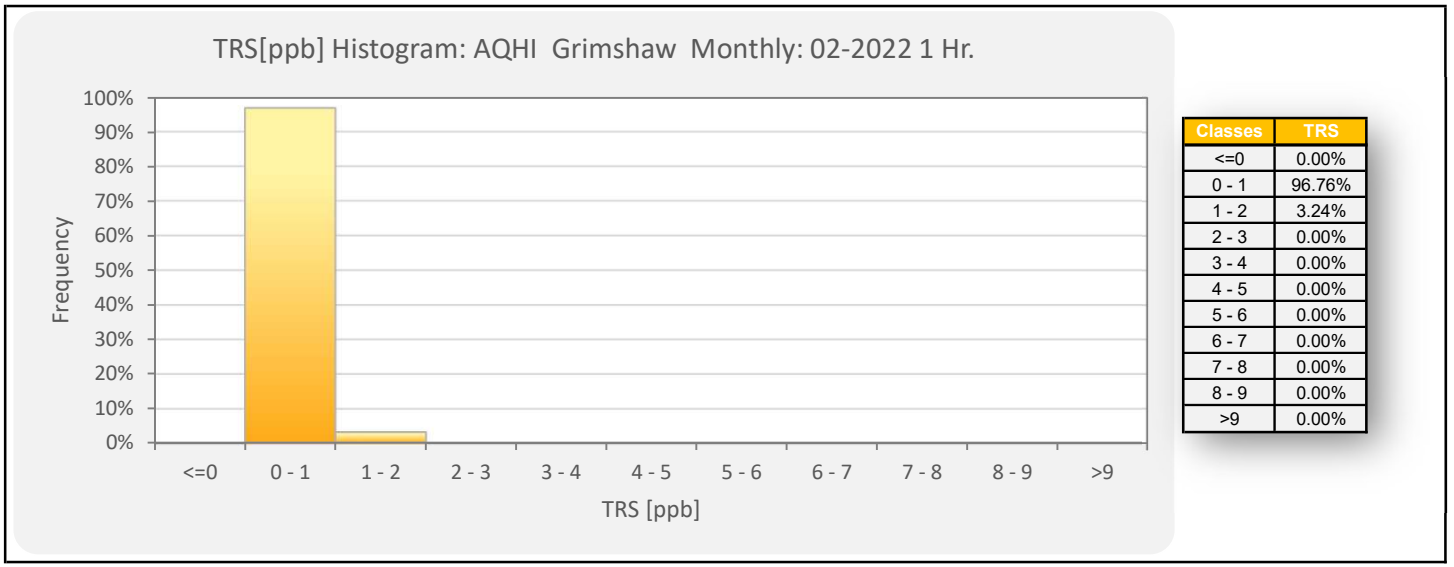
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0.39	0.39	0.42	0.47	0.42	0.37	0.34	0.4	0.36	0.39	0.29	0.35	0.34	0.45	0.41	0.39	0.39	0.47	0.47	0.48	S	0.2	0.67	0.65	0.20	0.67	0.41
Feb 2	0.58	0.42	0.42	0.43	0.43	0.44	0.41	0.57	0.57	0.52	0.5	0.41	0.46	0.41	0.44	0.48	0.42	0.44	0.42	S	0.41	0.37	0.33	0.33	0.33	0.58	0.44
Feb 3	0.32	0.33	0.28	0.25	0.27	0.26	0.16	0.23	0.17	0.13	0.16	0.13	0.15	0.21	0.26	0.24	0.24	0.28	S	0.26	0.25	0.4	0.38	0.32	0.13	0.40	0.25
Feb 4	0.33	0.36	0.36	0.38	0.41	0.44	0.44	0.46	0.44	0.47	0.44	0.49	0.48	0.48	0.55	0.52	0.47	S	0.53	0.49	0.5	0.45	0.52	0.53	0.33	0.55	0.46
Feb 5	0.51	0.5	0.52	0.47	0.47	0.45	0.51	0.46	0.44	0.46	0.39	0.36	0.36	0.4	0.38	0.46	S	0.48	0.45	0.39	0.36	0.36	0.37	0.36	0.36	0.52	0.43
Feb 6	0.38	0.37	0.41	0.37	0.37	0.42	0.4	0.42	0.44	0.41	0.41	0.37	0.38	0.36	0.36	S	0.4	0.36	0.35	0.34	0.34	0.35	0.32	0.34	0.32	0.44	0.38
Feb 7	0.35	0.32	0.36	0.38	0.39	0.39	0.38	0.41	0.41	0.39	0.41	0.37	0.36	0.38	S	0.54	0.52	0.47	0.47	0.5	0.47	0.53	0.54	0.56	0.32	0.56	0.43
Feb 8	0.6	0.66	0.7	0.77	0.76	0.84	0.81	0.86	0.95	1	1.03	1.02	0.27	S	0.98	1.1	1.15	1.17	1.15	1.2	1.22	1.24	1.21	1.2	0.27	1.24	**0.95**
Feb 9	1.23	1.22	**1.28**	1.27	1.21	1.22	1.22	1.26	1.19	NRM	0.49	0.55	S	0.39	0.4	0.42	0.43	0.49	0.47	0.49	0.49	0.52	0.53	0.54	0.39	**1.28**	0.79
Feb 10	0.54	0.55	0.52	0.46	0.45	0.43	0.41	0.42	0.4	0.4	0.37	S	0.41	0.41	0.4	0.4	0.4	0.43	0.39	0.43	0.38	0.37	0.37	0.33	0.33	0.55	0.42
Feb 11	0.35	0.35	0.33	0.26	0.32	0.35	0.38	0.44	0.46	0.44	S	0.49	0.48	0.53	0.55	0.53	0.52	0.64	0.5	0.5	0.51	0.45	0.43	0.43	0.26	0.64	0.45
Feb 12	0.38	0.5	0.43	0.36	0.42	0.49	0.47	0.67	0.72	S	0.4	0.42	0.47	0.38	0.41	0.47	0.48	0.56	0.54	0.54	0.43	0.36	0.39	0.42	0.36	0.72	0.47
Feb 13	0.37	0.37	0.33	0.34	0.31	0.28	0.32	0.28	S	0.32	0.25	0.26	0.28	0.28	0.3	0.29	0.33	0.3	0.32	0.44	0.45	0.38	0.31	0.3	0.25	0.45	0.32
Feb 14	0.31	0.31	0.3	0.25	0.32	0.32	0.37	S	0.54	0.39	0.34	0.32	0.38	0.41	0.46	0.44	0.45	0.44	0.45	0.5	0.39	0.37	0.38	0.34	0.25	0.54	0.38
Feb 15	0.36	0.31	0.36	0.35	0.38	0.37	S	0.35	0.3	0.28	0.22	0.21	C	C	C	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0.21	0.38	-
Feb 16	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	0.27	Y	0.2	0.17	0.14	0.11	0.17	0.17	0.22	0.23	0.23	0.3	**0.11**	0.30	-
Feb 17	0.32	0.39	0.4	0.41	S	0.44	0.37	0.46	0.52	0.63	0.56	0.54	0.53	0.53	0.47	0.43	0.4	0.4	0.3	0.3	0.31	0.3	0.23	0.31	0.23	0.63	0.42
Feb 18	0.27	0.27	0.25	S	0.27	0.18	0.22	0.24	0.14	0.14	0.19	0.22	0.21	0.22	0.22	0.25	0.33	0.28	0.22	0.3	0.31	0.34	0.34	0.39	0.14	0.39	0.25
Feb 19	0.37	0.34	S	0.42	0.39	0.47	0.47	0.48	0.42	0.36	0.49	0.39	0.36	0.33	0.41	0.41	0.41	0.38	0.37	0.41	0.53	0.56	0.5	0.49	0.33	0.56	0.42
Feb 20	0.46	S	0.47	0.43	0.42	0.43	0.39	0.42	0.4	0.36	0.4	0.38	0.24	0.4	0.4	0.44	0.42	0.49	0.52	0.7	0.62	0.61	0.54	0.47	0.24	0.70	0.45
Feb 21	S	0.47	0.43	0.41	0.38	0.48	0.48	0.44	0.38	0.46	0.28	0.24	0.4	0.39	0.32	0.27	0.28	0.39	0.43	0.44	0.45	0.32	0.32	S	0.24	0.48	0.38
Feb 22	0.43	0.31	0.26	0.37	0.33	0.3	0.34	0.32	0.34	0.26	0.13	0.12	0.3	0.41	0.19	0.26	0.3	0.31	0.4	0.45	0.4	0.43	S	0.44	0.12	0.45	0.32
Feb 23	0.42	0.37	0.43	0.44	0.4	0.36	0.42	0.45	0.42	0.43	0.43	0.36	0.4	0.39	0.4	0.43	0.37	0.4	0.28	0.24	0.24	S	0.35	0.31	0.24	0.45	0.38
Feb 24	0.33	0.36	0.32	0.29	0.33	0.34	0.32	0.33	0.55	0.74	0.43	0.5	0.53	0.55	0.52	0.57	0.54	0.58	0.56	0.56	S	0.71	0.5	0.66	0.29	0.74	0.48
Feb 25	0.61	0.59	0.6	0.58	0.62	0.62	0.61	0.57	0.55	0.61	0.44	0.57	0.55	0.54	0.55	0.56	0.6	0.53	0.43	S	0.54	0.48	0.49	0.5	0.43	0.62	0.55
Feb 26	0.44	0.46	0.47	0.47	0.42	0.49	0.45	0.46	0.55	0.58	0.56	0.45	0.51	0.51	0.39	0.48	0.5	0.39	S	0.48	0.42	0.3	0.37	0.41	0.30	0.58	0.46
Feb 27	0.4	0.37	0.43	0.43	0.41	0.46	0.49	0.48	0.46	0.45	0.43	0.37	0.43	0.4	0.49	0.52	0.45	S	0.45	0.45	0.51	0.48	0.47	0.42	0.37	0.52	0.45
Feb 28	0.43	0.42	0.53	0.47	0.44	0.46	0.4	0.43	0.35	0.3	0.46	0.38	0.39	0.45	0.42	0.41	S	0.41	0.34	0.27	0.35	0.35	0.34	0.37	0.27	0.53	0.40
Diurnal Maximum	1.23	1.22	1.28	1.27	1.21	1.22	1.22	1.26	1.19	1.00	1.03	1.02	0.55	0.55	0.98	1.10	1.15	1.17	1.15	1.20	1.22	1.24	1.21	1.20			
Diurnal Average	0.44	0.44	0.45	0.44	0.44	0.45	0.45	0.47	0.48	0.44	0.40	0.40	0.38	0.41	0.42	0.44	0.44	0.45	0.44	0.45	0.44	0.44	0.44	0.45			

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 - Grimshaw Station

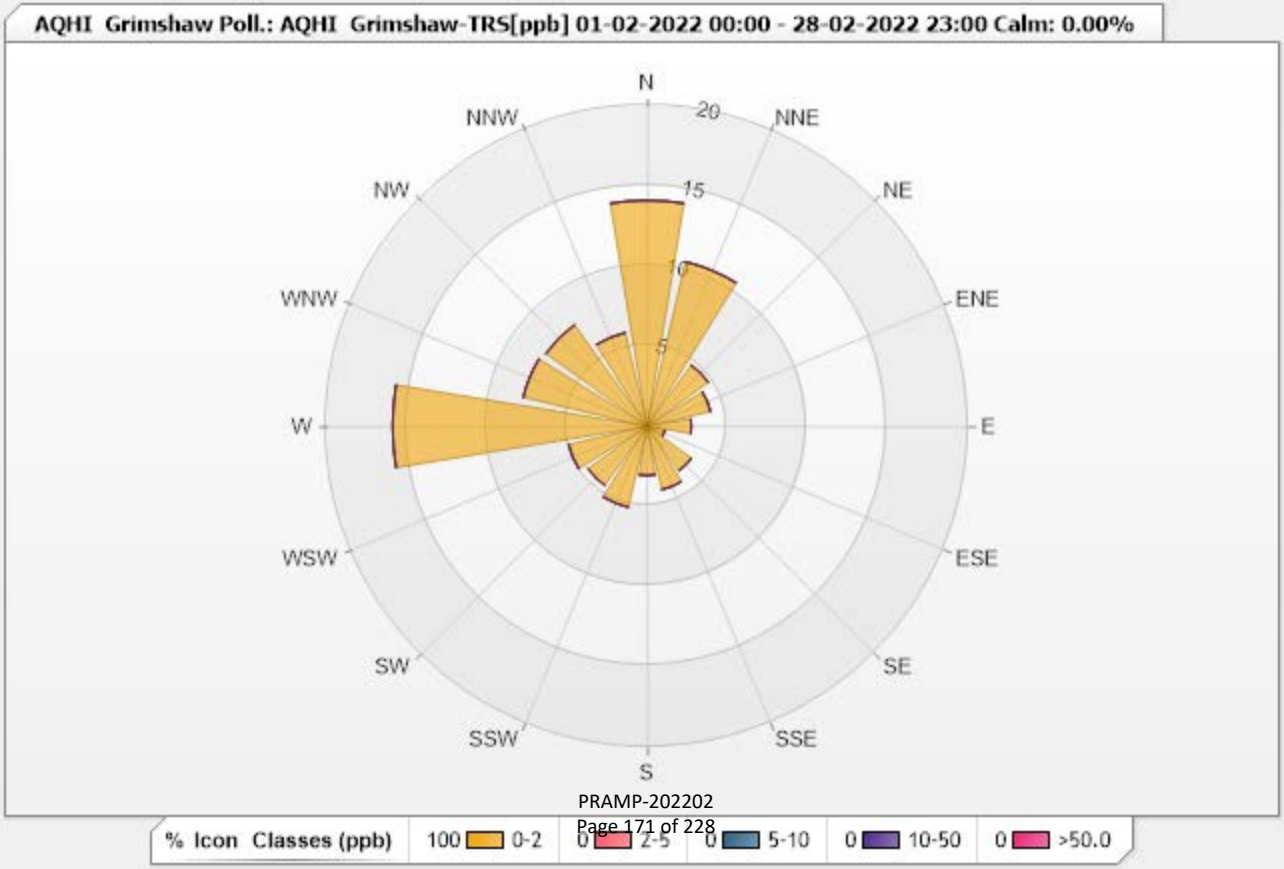




Classes	TRS
<=0	0.00%
0 - 1	96.76%
1 - 2	3.24%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 91.96% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	14.08	0	0	0	0	14.08
NNE	10.52	0	0	0	0	10.52
NE	4.69	0	0	0	0	4.69
ENE	4.05	0	0	0	0	4.05
E	2.75	0	0	0	0	2.75
ESE	1.13	0	0	0	0	1.13
SE	3.4	0	0	0	0	3.4
SSE	4.05	0	0	0	0	4.05
S	3.07	0	0	0	0	3.07
SSW	5.18	0	0	0	0	5.18
SW	4.53	0	0	0	0	4.53
WSW	5.02	0	0	0	0	5.02
W	15.86	0	0	0	0	15.86
WNW	7.93	0	0	0	0	7.93
NW	7.77	0	0	0	0	7.77
NNW	5.99	0	0	0	0	5.99
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppb)
100 0-2
0 2-5
0 5-10
0 10-50
0 >50.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

OXIDES OF NITROGEN (NOx) in ppb

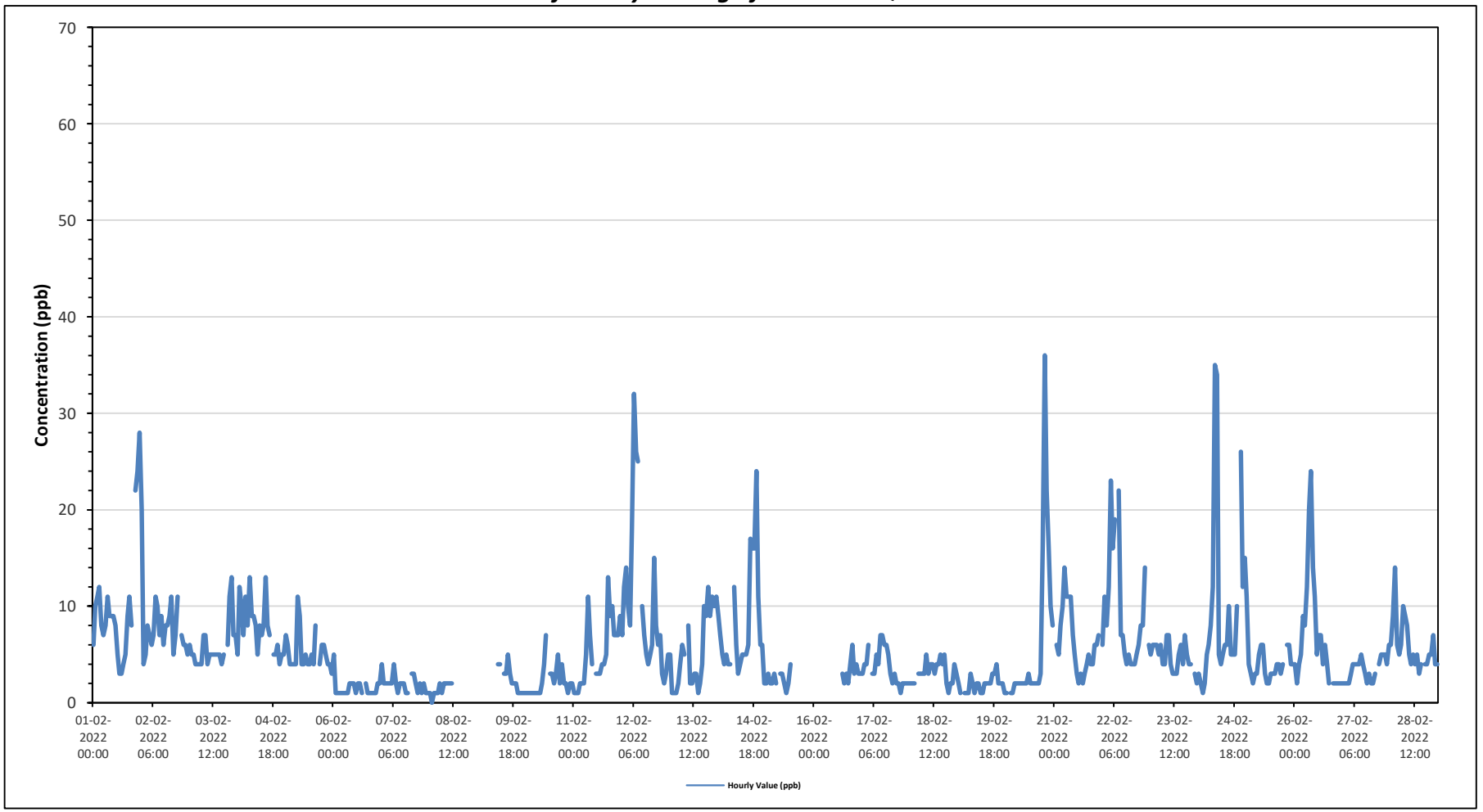
Maximum Hourly Value:	36	ppb	on February 20 at hour 19	Hours in Service:	672
Maximum Daily Value:	10.3	ppb	on February 12	Hours of Data:	597
Minimum Hourly Value:	0	ppb	on February 8 at hour 1	Hours of Missing Data:	38
Minimum Daily Value:	1.5	ppb	on February 6	Hours of Calibration:	37
Monthly Average:	5.4	ppb		Operational Uptime:	94.3

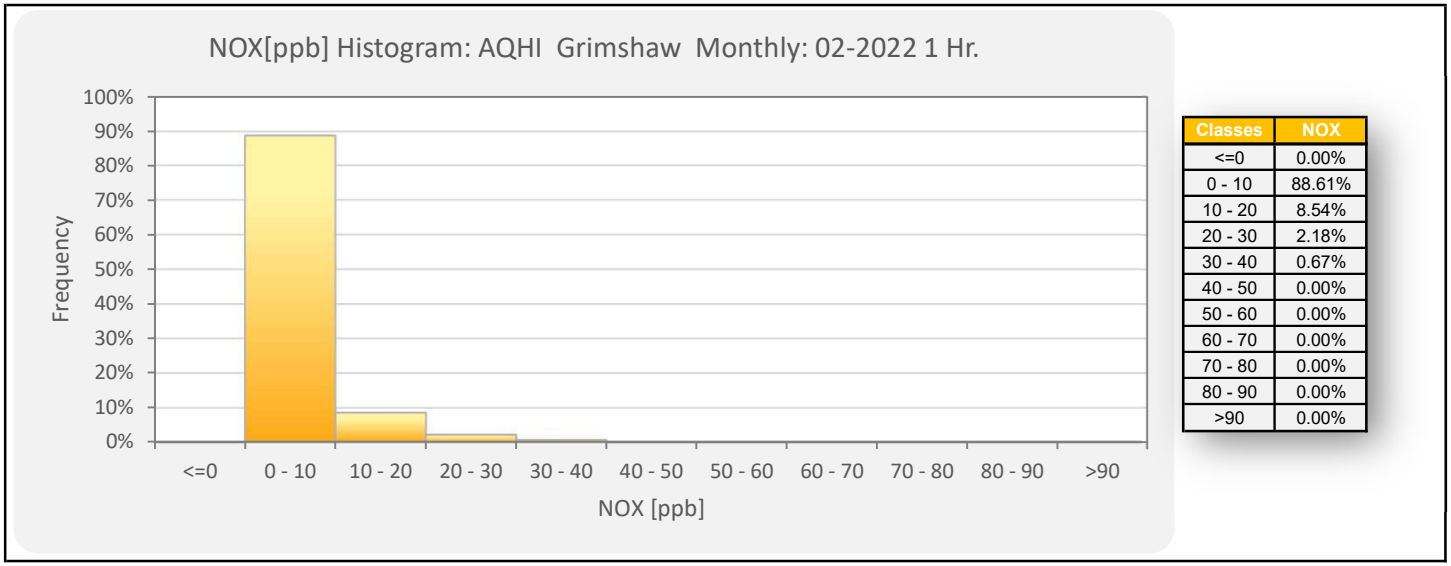
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	6	10	11	12	8	7	8	11	9	9	9	8	5	3	3	4	5	9	11	8	S	22	24	28	3	28	10.0
Feb 2	20	4	5	8	7	6	7	11	10	7	9	6	8	8	9	11	5	7	11	S	7	6	6	5	4	20	8.0
Feb 3	6	5	5	4	4	4	4	7	7	4	5	5	5	5	5	5	4	5	S	6	11	13	7	7	4	13	5.8
Feb 4	5	12	10	7	11	8	13	9	9	8	5	8	7	8	13	8	7	S	5	5	6	4	5	5	4	13	7.7
Feb 5	7	6	4	4	4	4	11	9	4	4	5	4	4	5	4	8	S	4	6	6	5	4	4	3	3	11	5.2
Feb 6	5	1	1	1	1	1	1	1	2	2	2	1	2	2	1	S	2	1	1	1	1	1	2	2	1	5	1.5
Feb 7	4	2	2	2	2	2	4	2	1	2	2	2	1	1	S	3	3	2	1	2	1	2	1	1	1	4	2.0
Feb 8	1	0	1	1	1	2	1	2	2	2	2	2	X	X	X	X	X	X	X	X	X	X	X	X	0	2	-
Feb 9	X	X	X	X	X	X	X	X	X	NRM	4	4	S	3	3	5	3	2	2	2	1	1	1	1	1	5	-
Feb 10	1	1	1	1	1	1	1	1	2	4	7	S	3	3	2	3	5	2	4	2	2	1	2	2	1	7	2.3
Feb 11	1	1	1	2	2	2	5	11	7	4	S	3	3	3	4	4	5	13	9	10	7	7	7	9	1	13	5.2
Feb 12	7	12	14	10	8	18	32	26	25	S	10	7	5	4	5	6	15	8	6	7	3	2	3	5	2	32	**10.3**
Feb 13	5	1	1	1	2	4	6	5	S	8	2	2	3	3	1	2	4	10	9	12	9	11	10	11	1	12	5.3
Feb 14	9	7	5	4	5	4	4	S	12	6	3	4	5	5	5	6	17	16	16	24	11	6	6	2	2	24	7.9
Feb 15	2	3	2	2	3	2	S	3	3	2	1	2	4	C	C	C	C	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1	4	-
Feb 16	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	C	C	3	2	3	2	4	6	3	4	3	3	2	6	-
Feb 17	3	4	4	6	S	3	3	5	4	7	7	6	6	5	3	2	3	2	2	1	2	2	2	2	1	7	3.7
Feb 18	2	2	2	S	3	3	3	3	5	3	4	4	3	4	4	5	4	5	2	1	2	2	4	3	1	5	3.2
Feb 19	2	1	S	1	1	1	3	2	1	2	2	1	1	2	2	2	2	3	3	4	2	2	2	1	1	4	1.9
Feb 20	1	S	1	1	2	2	2	2	2	2	2	3	2	2	2	2	2	3	16	**36**	22	16	10	8	1	**36**	6.1
Feb 21	S	6	5	8	10	14	11	11	11	7	5	3	2	3	2	3	4	5	4	4	6	6	7	S	2	14	6.2
Feb 22	6	11	8	12	23	16	19	NRM	22	7	7	5	4	5	4	4	4	5	6	8	8	14	S	6	4	23	9.3
Feb 23	5	6	6	6	5	6	4	4	7	7	4	3	3	3	5	6	4	7	5	4	4	S	3	2	2	7	4.7
Feb 24	3	2	1	2	5	6	8	12	35	34	5	4	5	6	6	10	5	5	5	10	S	26	12	15	1	35	9.7
Feb 25	11	4	3	2	3	3	5	6	6	3	2	2	3	3	3	4	4	3	4	S	6	6	4	4	2	11	4.1
Feb 26	4	2	4	5	9	8	12	20	24	14	11	5	7	7	4	6	4	2	S	2	2	2	2	2	2	24	6.9
Feb 27	2	2	2	2	3	4	4	4	4	5	4	3	2	3	2	2	3	S	4	5	5	5	4	6	2	6	3.5
Feb 28	6	9	14	6	5	6	10	9	8	5	4	5	4	5	3	4	S	4	4	5	5	7	4	4	3	14	5.9
Diurnal Maximum	20	12	14	12	23	18	32	26	35	34	11	8	8	8	13	11	17	16	16	36	22	26	24	28			
Diurnal Average	5.0	4.6	4.5	4.4	5.1	5.3	7.2	7.3	8.9	6.3	4.7	3.9	3.9	4.0	3.9	4.7	4.9	5.2	5.8	7.1	5.5	6.9	5.4	5.5			

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 NOx - AQHI - Grimshaw Station

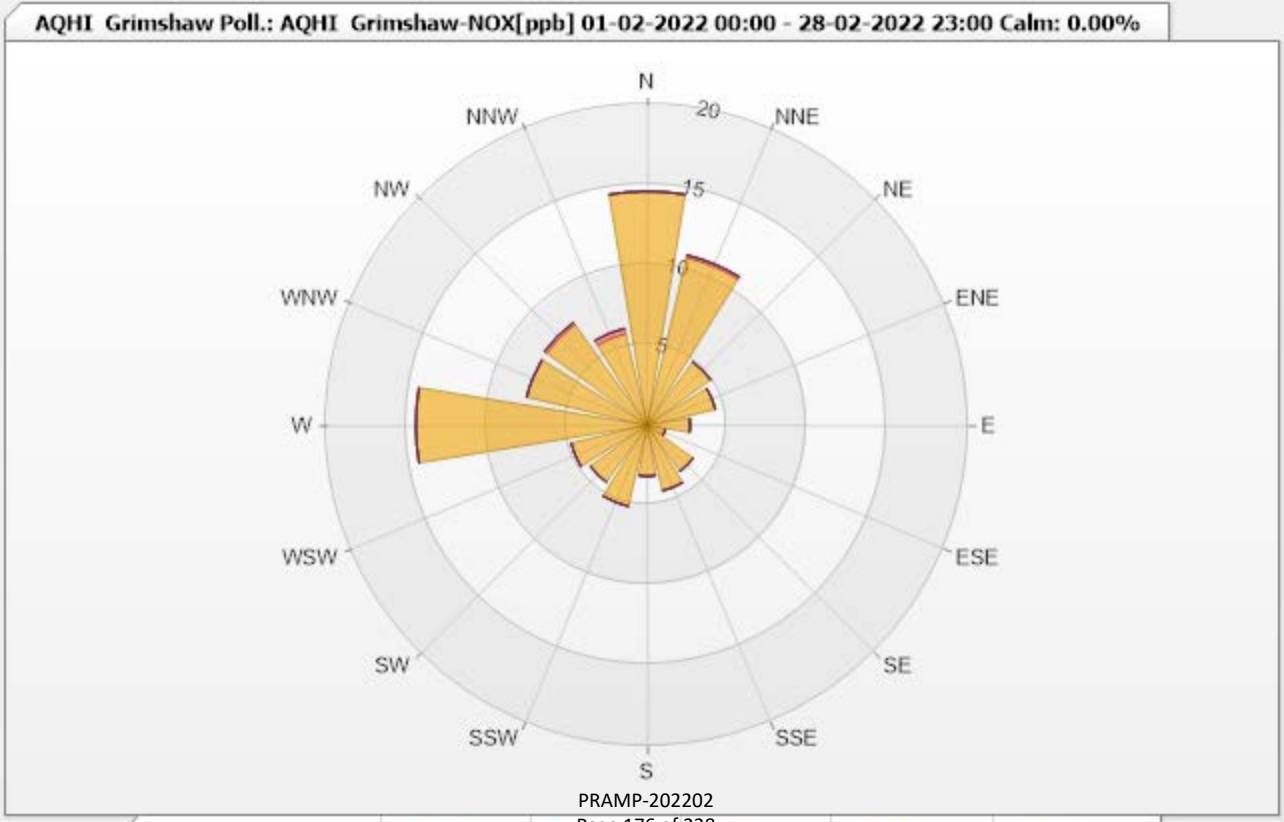




Classes	NOX
<=0	0.00%
0 - 10	88.61%
10 - 20	8.54%
20 - 30	2.18%
30 - 40	0.67%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.84% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	14.57	0	0	0	0	14.57
NNE	10.72	0.17	0	0	0	10.89
NE	4.86	0	0	0	0	4.86
ENE	4.36	0	0	0	0	4.36
E	2.68	0	0	0	0	2.68
ESE	1.17	0	0	0	0	1.17
SE	3.52	0	0	0	0	3.52
SSE	4.19	0	0	0	0	4.19
S	3.18	0	0	0	0	3.18
SSW	5.19	0	0	0	0	5.19
SW	4.36	0	0	0	0	4.36
WSW	4.86	0	0	0	0	4.86
W	14.41	0	0	0	0	14.41
WNW	7.71	0	0	0	0	7.71
NW	7.71	0.17	0	0	0	7.88
NNW	5.86	0.34	0	0	0	6.2
Summary	99.35	0.68	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppb)
99 0-30
1 30-50
0 50-76
0 76-159
0 >159.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

NITRIC OXIDE (NO) in ppb

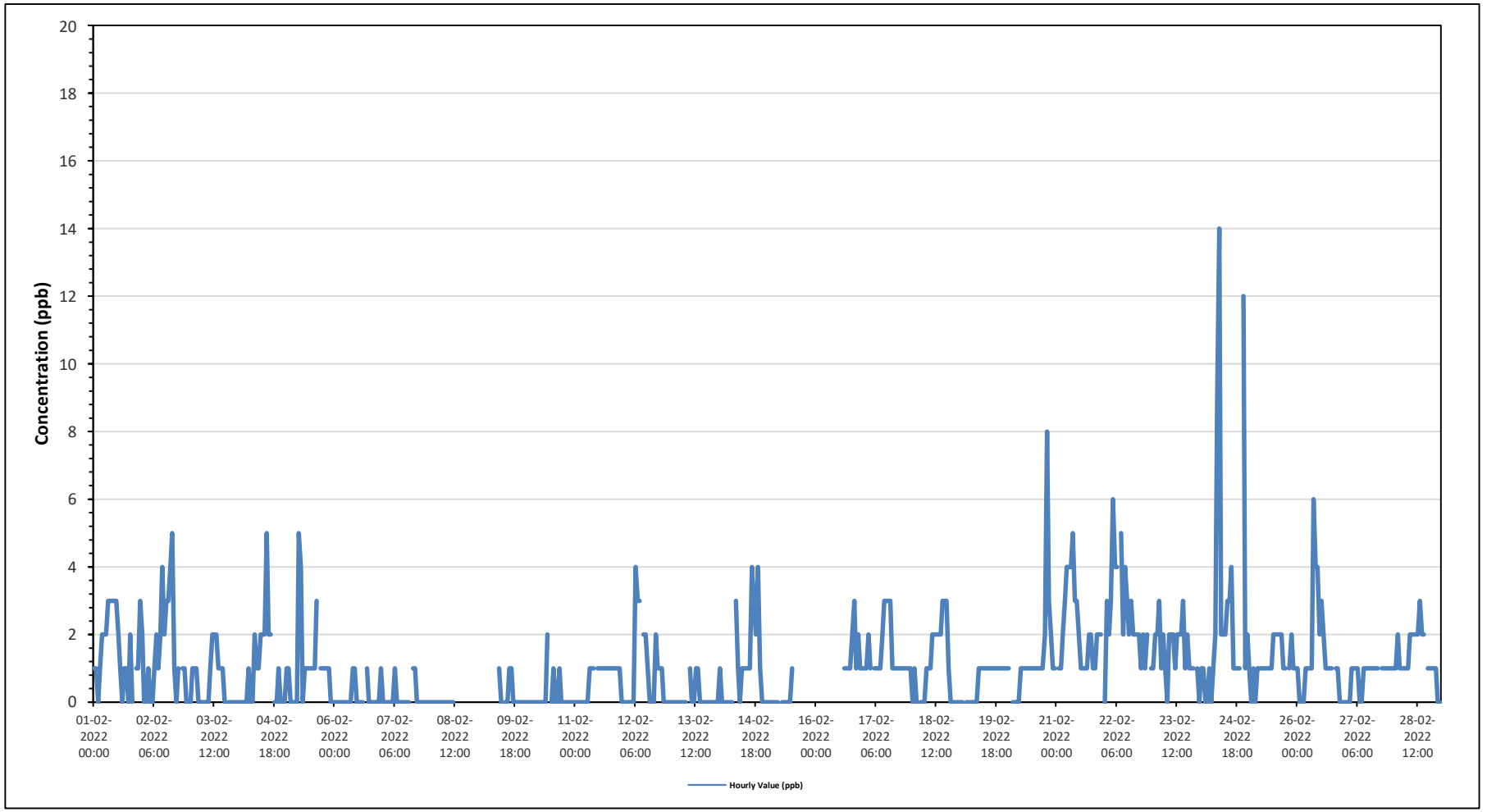
Maximum Hourly Value:	14	ppb	on February 24 at hour 9	Hours in Service:	672
Maximum Daily Value:	2.8	ppb	on February 24	Hours of Data:	597
Minimum Hourly Value:	0	ppb	on February 1 at hour 2	Hours of Missing Data:	38
Minimum Daily Value:	0.1	ppb	on February 7	Hours of Calibration:	37
Monthly Average:	1.1	ppb		Operational Uptime:	94.3

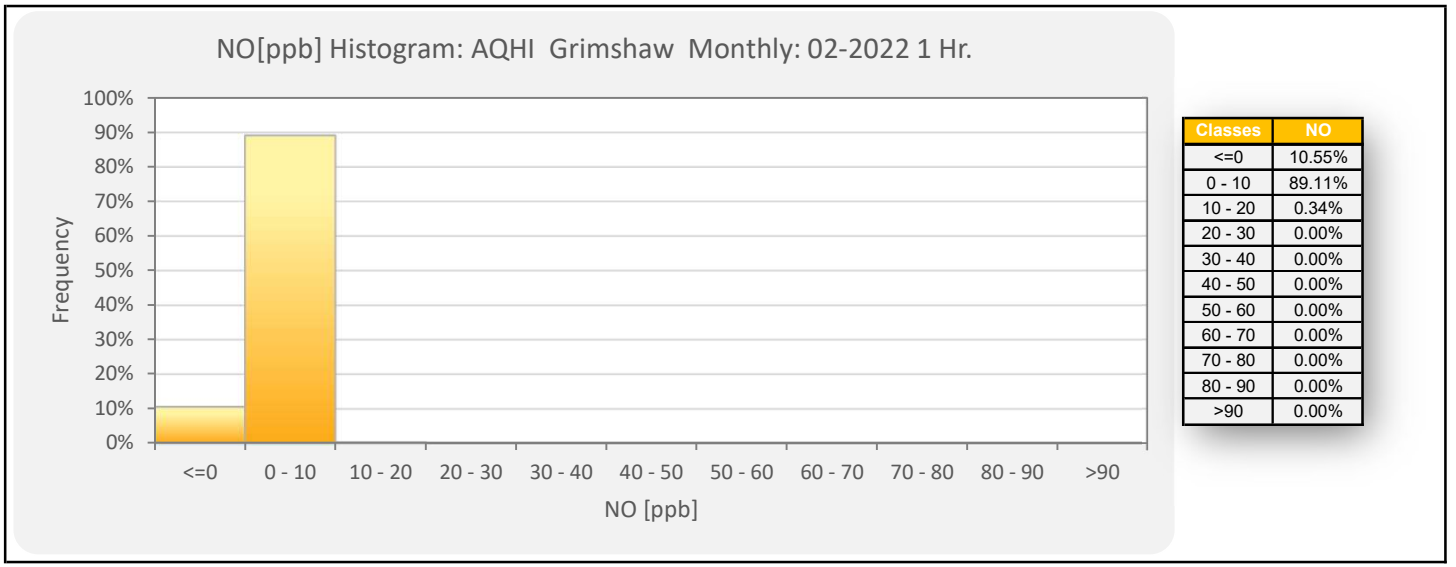
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	1	1	0	1	2	2	2	3	3	3	3	3	2	1	0	1	1	0	2	0	S	1	1	3	0	3	1.6
Feb 2	2	0	0	1	0	0	1	2	1	2	4	2	3	3	4	5	1	0	1	S	1	1	0	0	0	5	1.5
Feb 3	0	1	1	1	0	0	0	0	0	0	1	2	2	2	1	1	1	0	S	0	0	0	0	0	0	2	0.6
Feb 4	0	0	0	0	0	1	0	0	2	1	1	2	2	2	5	2	2	S	0	0	1	0	0	0	0	5	0.9
Feb 5	1	1	0	0	0	0	5	4	0	1	1	1	1	1	1	3	S	1	1	1	1	1	0	0	0	5	1.1
Feb 6	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	S	1	0	0	0	0	0	0	1	0	1	0.2
Feb 7	0	0	0	0	0	0	1	0	0	0	0	0	0	0	S	1	1	0	0	0	0	0	0	0	0	1	0.1
Feb 8	0	0	0	0	0	0	0	0	0	0	0	0	X	X	X	X	X	X	X	X	X	X	X	X	0	0	-
Feb 9	X	X	X	X	X	X	X	X	X	NRM	1	0	S	0	0	1	1	0	0	0	0	0	0	0	0	0	1	-
Feb 10	0	0	0	0	0	0	0	0	0	0	2	S	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0.2
Feb 11	0	0	0	0	0	0	0	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0.7
Feb 12	0	0	0	0	0	0	4	3	3	S	2	2	1	0	0	0	2	1	1	1	0	0	0	0	0	4	0.9
Feb 13	0	0	0	0	0	0	0	0	S	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Feb 14	1	0	0	0	0	0	0	S	3	1	0	1	1	1	1	1	4	3	2	4	1	0	0	0	0	4	1.0
Feb 15	0	0	0	0	0	0	S	0	0	0	0	0	1	C	C	C	C	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0	1	-
Feb 16	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	C	C	1	1	1	1	2	3	1	2	1	1	1	3	-
Feb 17	1	1	2	1	S	1	1	1	1	2	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	3	1.4
Feb 18	0	1	0	S	0	0	0	1	1	1	2	2	2	2	2	3	3	3	1	0	0	0	0	0	0	3	1.0
Feb 19	0	0	S	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0.7
Feb 20	1	S	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2	8	3	2	1	1	0	8	1.3
Feb 21	S	1	1	2	3	4	4	4	5	3	3	2	1	1	1	1	2	2	1	1	2	2	2	S	1	5	2.2
Feb 22	0	3	2	3	6	4	4	NRM	5	2	4	3	2	3	2	2	2	2	1	2	1	2	S	1	0	6	2.5
Feb 23	1	2	2	3	1	2	1	0	2	2	2	1	2	2	2	3	1	2	1	1	1	S	1	0	0	3	1.5
Feb 24	1	1	0	0	1	0	1	2	9	14	2	2	2	3	3	4	1	1	1	1	S	12	1	2	0	14	2.8
Feb 25	1	0	1	0	1	1	1	1	1	1	1	1	2	2	2	2	2	1	1	S	1	2	1	1	0	2	1.2
Feb 26	1	0	0	0	1	1	1	1	6	4	4	2	3	2	1	1	1	1	S	1	1	0	0	0	0	6	1.4
Feb 27	0	0	0	1	1	1	1	0	0	1	1	1	1	1	1	1	1	S	1	1	1	1	1	1	0	1	0.8
Feb 28	1	1	2	1	1	1	1	1	2	2	2	2	2	3	2	2	S	1	1	1	1	1	0	0	0	3	1.3
Diurnal Maximum	2	3	2	3	6	4	5	4	9	14	4	3	3	3	5	5	4	3	2	8	3	12	2	3			
Diurnal Average	0.5	0.5	0.4	0.6	0.7	0.7	1.2	1.0	1.8	1.8	1.6	1.3	1.5	1.5	1.3	1.6	1.4	1.0	0.9	1.2	0.8	1.2	0.5	0.5			

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 NO - AQHI - Grimshaw Station

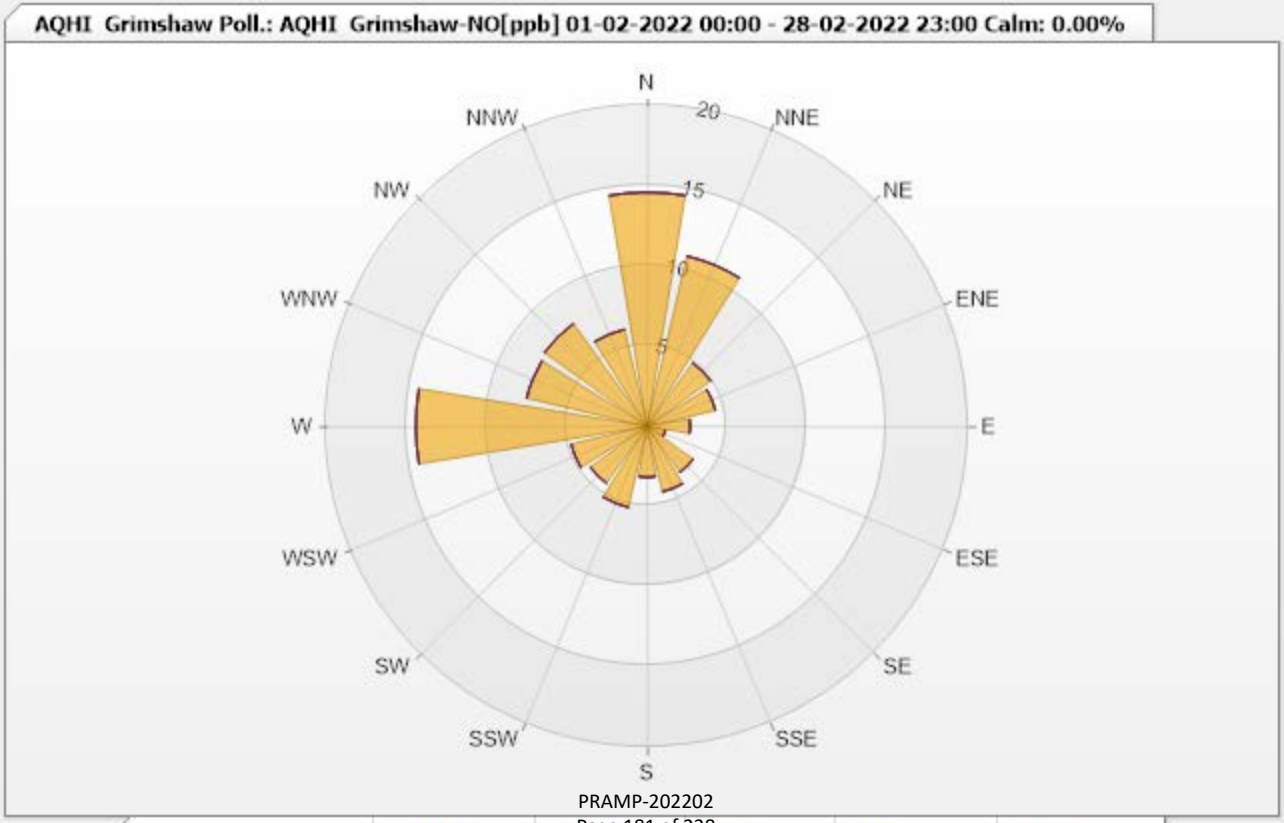




Classes	NO
<=0	10.55%
0 - 10	89.11%
10 - 20	0.34%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.84% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	14.57	0	0	0	0	14.57
NNE	10.89	0	0	0	0	10.89
NE	4.86	0	0	0	0	4.86
ENE	4.36	0	0	0	0	4.36
E	2.68	0	0	0	0	2.68
ESE	1.17	0	0	0	0	1.17
SE	3.52	0	0	0	0	3.52
SSE	4.19	0	0	0	0	4.19
S	3.18	0	0	0	0	3.18
SSW	5.19	0	0	0	0	5.19
SW	4.36	0	0	0	0	4.36
WSW	4.86	0	0	0	0	4.86
W	14.41	0	0	0	0	14.41
WNW	7.71	0	0	0	0	7.71
NW	7.87	0	0	0	0	7.87
NNW	6.2	0	0	0	0	6.2
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% 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 - Grimshaw Station - February 2022

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

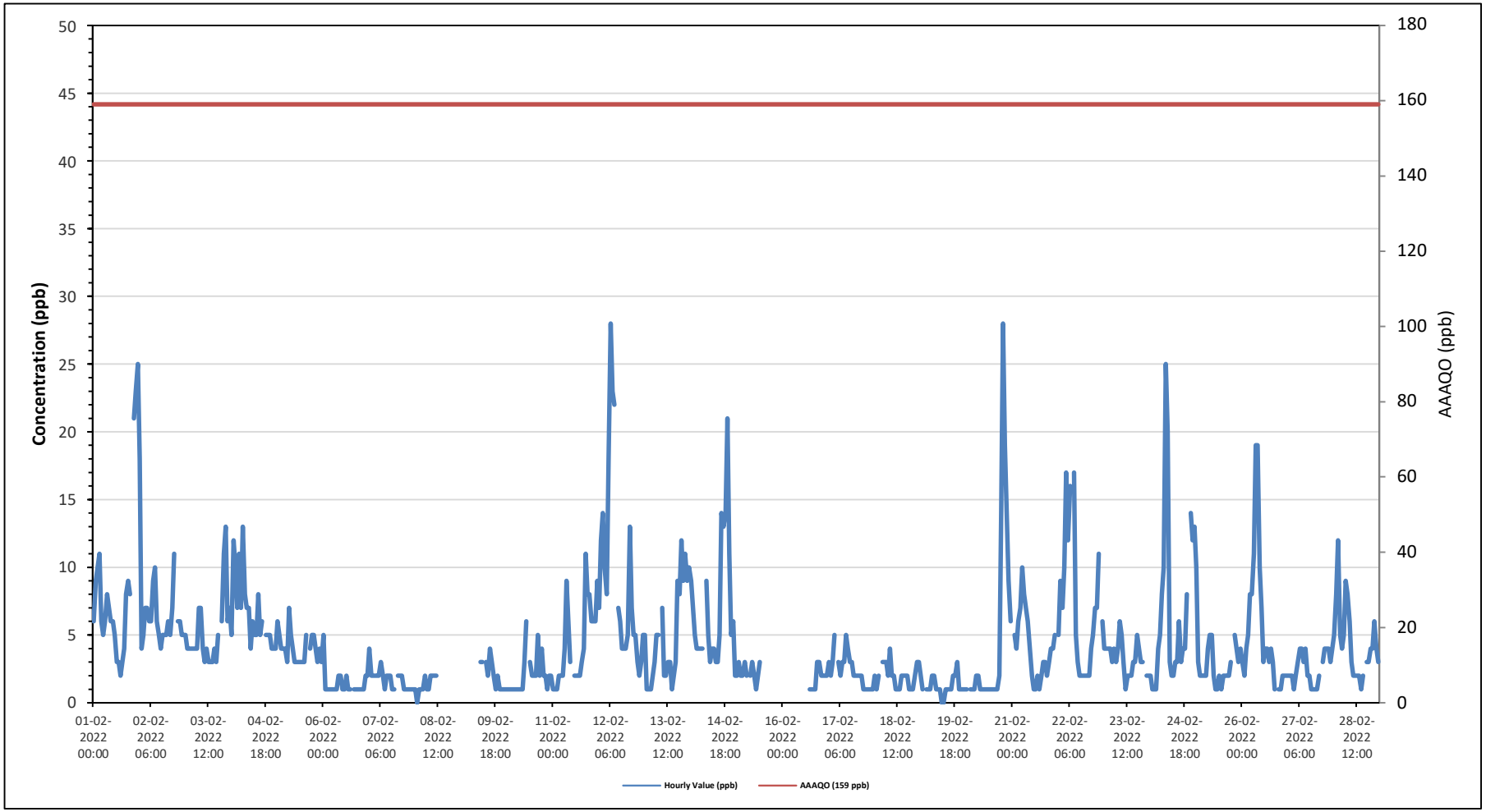
Maximum Hourly Value:	28	ppb	on February 12 at hour 6	Hours in Service:	672
Maximum Daily Value:	9.3	ppb	on February 12	Hours of Data:	597
Minimum Hourly Value:	0	ppb	on February 8 at hour 1	Hours of Missing Data:	38
Minimum Daily Value:	1.2	ppb	on February 19	Hours of Calibration:	37
Monthly Average:	4.3	ppb		Operational Uptime:	94.3

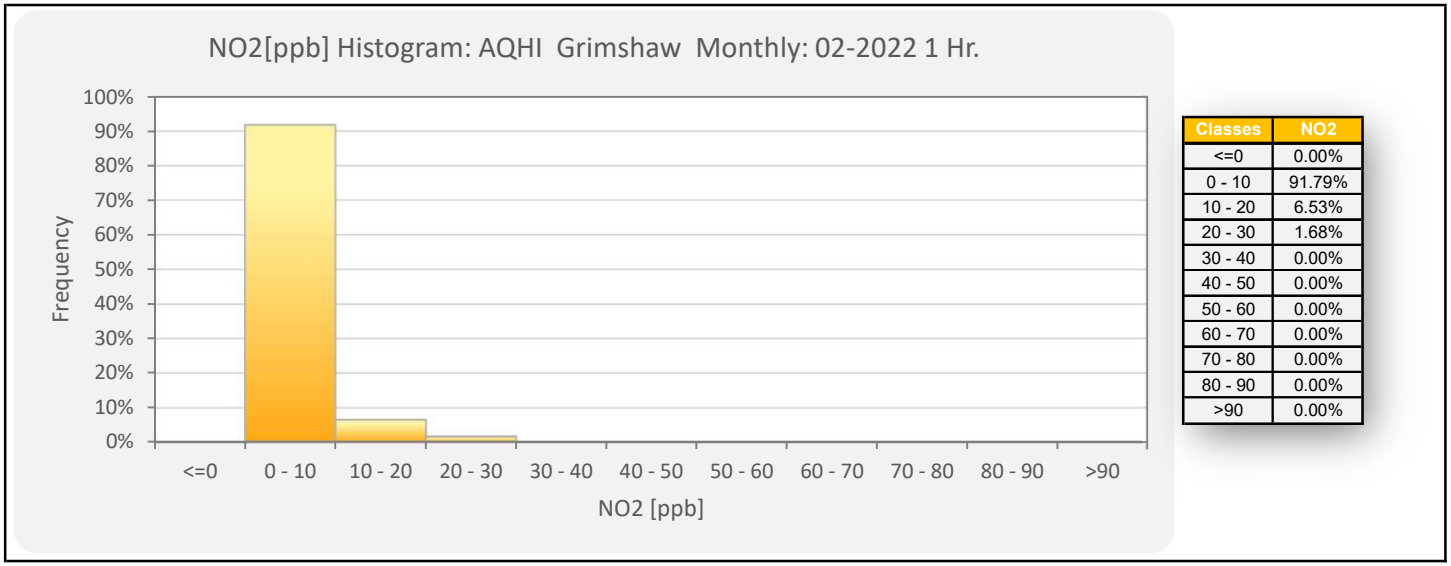
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	6	9	10	11	6	5	6	8	7	6	6	5	3	3	2	3	4	8	9	8	S	21	23	25	2	25	8.4
Feb 2	18	4	5	7	7	6	6	9	10	6	5	4	5	5	5	6	5	7	11	S	6	6	5	5	4	18	6.7
Feb 3	5	4	4	4	4	4	4	7	7	4	3	4	3	3	3	4	3	5	S	6	11	13	6	7	3	13	5.1
Feb 4	5	12	10	7	11	7	13	8	7	7	4	6	5	5	8	5	6	S	5	5	5	4	4	4	4	13	6.7
Feb 5	6	5	4	4	4	3	7	5	4	3	3	3	3	3	3	5	S	4	5	5	4	3	4	3	3	7	4.0
Feb 6	5	1	1	1	1	1	1	1	2	2	1	1	2	1	1	S	1	1	1	1	1	1	2	2	1	5	1.4
Feb 7	4	2	2	2	2	2	3	2	1	2	2	2	1	1	S	2	2	2	1	1	1	1	1	1	1	4	1.7
Feb 8	1	0	1	1	1	2	1	1	2	2	2	2	X	X	X	X	X	X	X	X	X	X	X	X	0	2	-
Feb 9	X	X	X	X	X	X	X	X	X	NRM	3	3	S	3	2	4	3	2	1	2	1	1	1	1	1	4	-
Feb 10	1	1	1	1	1	1	1	1	1	3	6	S	3	2	2	2	5	2	4	2	2	1	2	2	1	6	2.0
Feb 11	1	1	1	2	2	2	4	9	6	3	S	2	2	2	2	3	4	11	8	8	6	6	6	9	1	11	4.3
Feb 12	7	12	14	10	8	18	28	23	22	S	7	6	4	4	4	5	13	7	5	5	3	2	3	5	2	28	9.3
Feb 13	5	1	1	1	2	3	5	5	S	7	2	2	3	3	1	2	3	9	8	12	9	11	9	10	1	12	5.0
Feb 14	9	7	5	4	4	4	4	S	9	5	3	4	4	3	3	5	14	13	14	21	11	5	6	2	2	21	6.9
Feb 15	2	3	2	2	3	2	S	2	3	2	1	2	3	C	C	C	C	NRM	NRM	NRM	NRM	NRM	NRM	NRM	1	3	-
Feb 16	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	C	C	1	1	1	1	3	3	2	2	2	2	1	3	-
Feb 17	3	2	3	5	S	3	2	3	3	5	4	3	3	2	2	2	2	2	1	1	1	1	1	1	1	5	2.4
Feb 18	2	1	2	S	3	3	3	2	4	2	2	1	1	1	2	2	2	2	1	1	1	2	3	3	1	4	2.0
Feb 19	2	1	S	1	1	1	2	2	1	1	1	0	0	1	1	1	1	2	2	3	1	1	1	1	0	3	1.2
Feb 20	1	S	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	2	14	28	19	14	9	6	1	28	4.8
Feb 21	S	5	4	6	7	10	8	7	6	4	2	1	1	2	1	2	3	3	2	3	4	4	5	S	1	10	4.1
Feb 22	5	9	7	10	17	12	16	NRM	17	5	3	2	2	2	2	2	2	4	5	7	7	11	S	6	2	17	7.0
Feb 23	4	4	4	4	3	4	3	4	6	5	3	1	2	2	2	3	3	5	4	3	3	S	2	2	1	6	3.3
Feb 24	2	1	1	1	4	5	8	10	25	20	3	2	2	3	3	6	3	4	4	8	S	14	12	13	1	25	6.7
Feb 25	10	3	2	2	2	2	4	5	5	2	1	1	2	1	2	2	2	2	3	S	5	4	3	4	1	10	3.0
Feb 26	3	2	4	5	8	8	11	19	19	10	7	3	4	4	3	4	3	1	S	1	1	2	2	2	1	19	5.5
Feb 27	2	2	2	1	2	3	4	4	3	4	2	2	1	1	1	1	2	S	3	4	4	4	3	4	1	4	2.6
Feb 28	5	8	12	5	4	5	9	8	6	3	2	2	2	2	1	2	S	3	3	4	4	6	4	3	1	12	4.5
Diurnal Maximum	18	12	14	11	17	18	28	23	25	20	7	6	5	5	8	6	14	13	14	28	19	21	23	25			
Diurnal Average	4.6	4.0	4.1	3.9	4.3	4.5	6.2	6.1	7.1	4.6	3.0	2.5	2.5	2.4	2.3	3.0	3.7	4.3	4.9	5.9	4.7	5.6	4.8	4.9			

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 NO2 - AQHI - Grimshaw Station

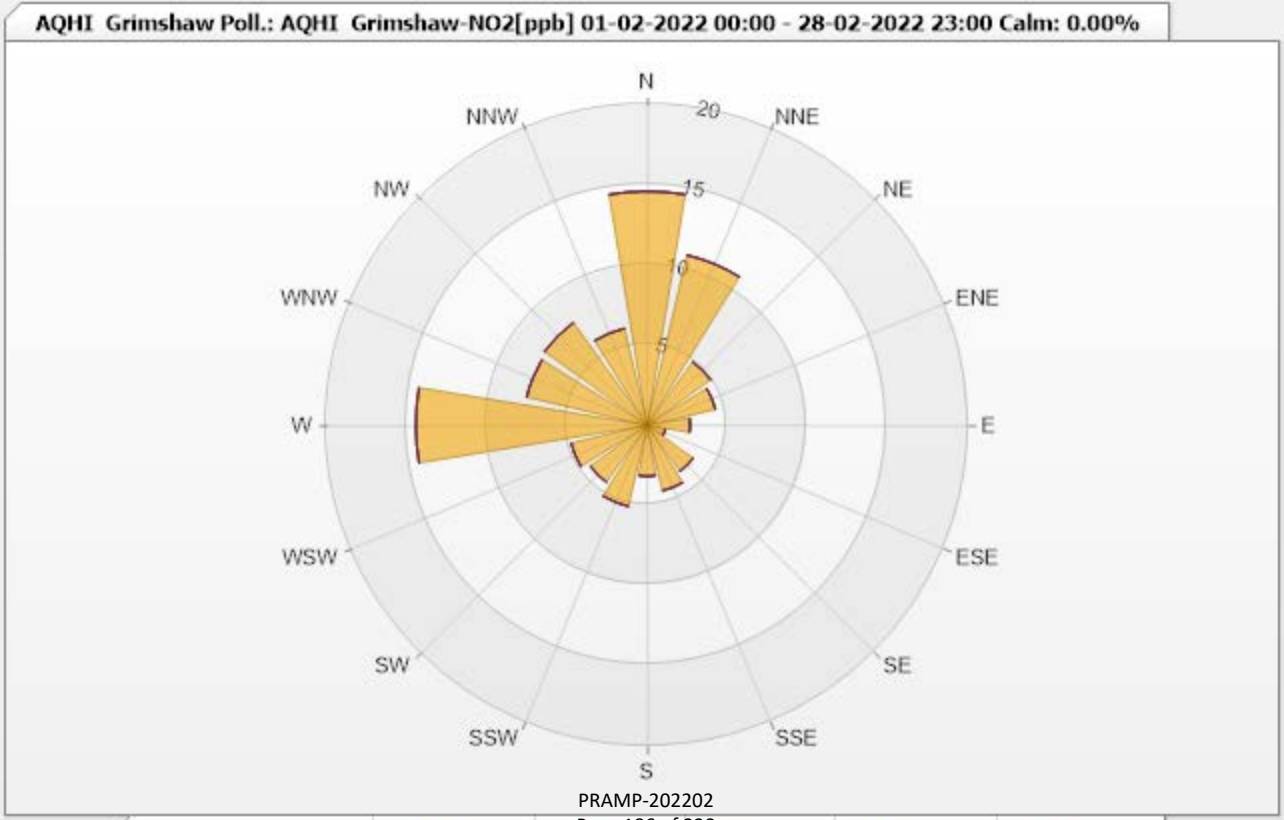




Classes	NO2
<=0	0.00%
0 - 10	91.79%
10 - 20	6.53%
20 - 30	1.68%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.84% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	14.57	0	0	0	0	14.57
NNE	10.89	0	0	0	0	10.89
NE	4.86	0	0	0	0	4.86
ENE	4.36	0	0	0	0	4.36
E	2.68	0	0	0	0	2.68
ESE	1.17	0	0	0	0	1.17
SE	3.52	0	0	0	0	3.52
SSE	4.19	0	0	0	0	4.19
S	3.18	0	0	0	0	3.18
SSW	5.19	0	0	0	0	5.19
SW	4.36	0	0	0	0	4.36
WSW	4.86	0	0	0	0	4.86
W	14.41	0	0	0	0	14.41
WNW	7.71	0	0	0	0	7.71
NW	7.87	0	0	0	0	7.87
NNW	6.2	0	0	0	0	6.2
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppb)
100 0-30
0 30-50
0 50-76
0 76-159
0 >159.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

OZONE (O_3) in ppb

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

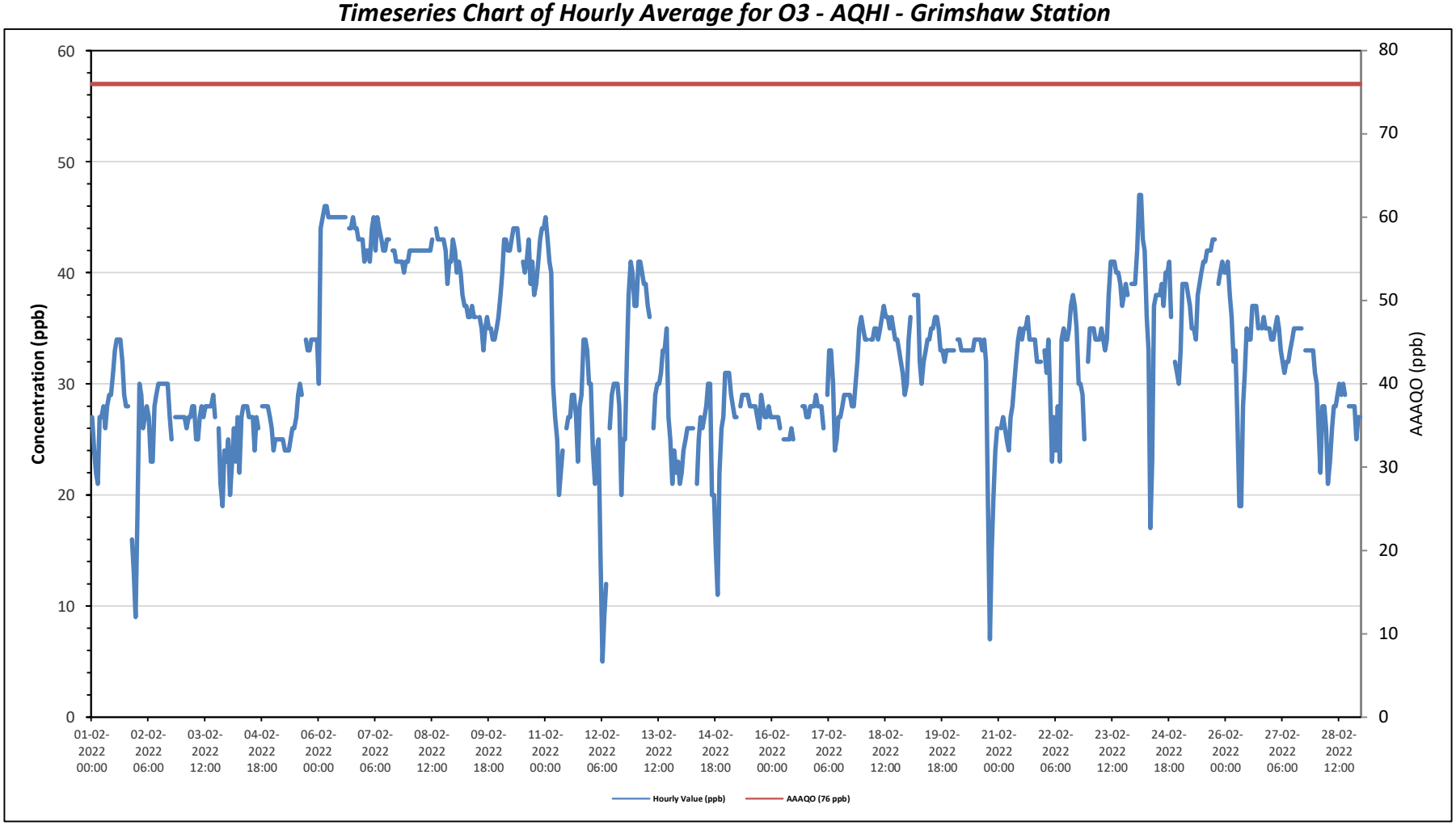
Number of 1-Hour Exceedances: 0

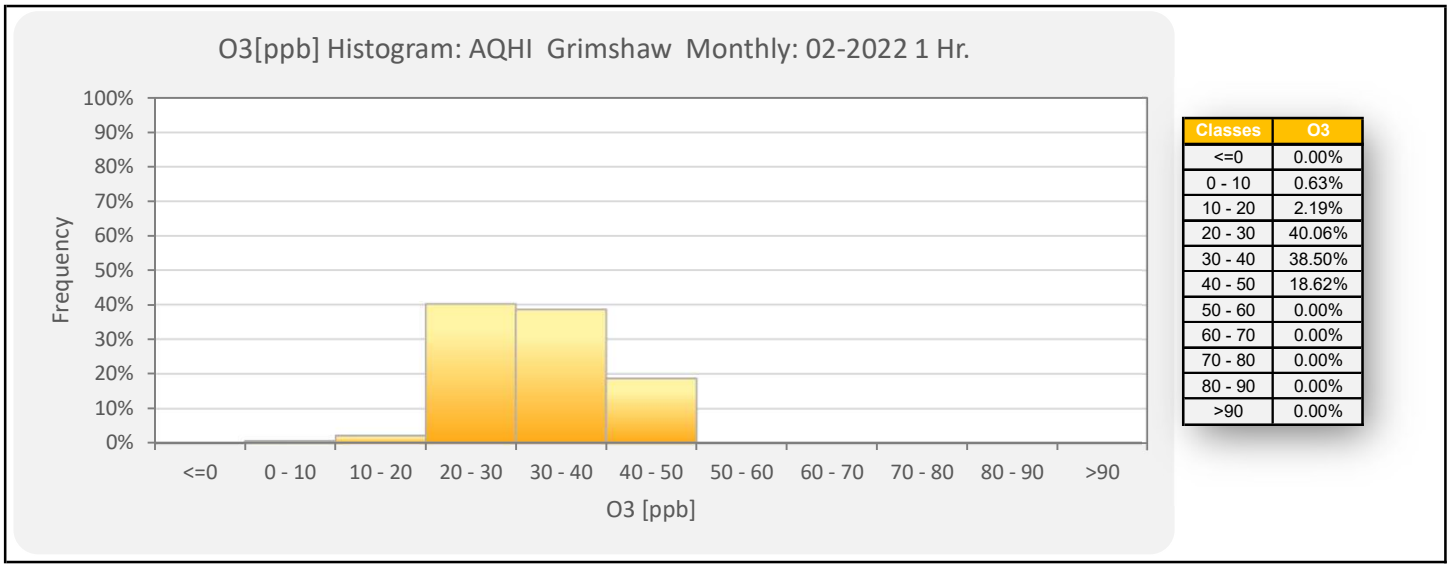
Maximum Hourly Value:	47	ppb	on February 24 at hour 2	Hours in Service:	672
Maximum Daily Value:	44.0	ppb	on February 6	Hours of Data:	639
Minimum Hourly Value:	5	ppb	on February 12 at hour 6	Hours of Missing Data:	0
Minimum Daily Value:	24.4	ppb	on February 14	Hours of Calibration:	33
Monthly Average:	32.3	ppb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	27	24	22	21	27	27	28	26	28	29	29	31	33	34	34	34	32	29	28	28	S	16	13	9	9.0	34.0	26.5
Feb 2	18	30	29	26	27	28	27	23	23	28	29	30	30	30	30	30	30	27	25	S	27	27	27	27	18.0	30.0	27.3
Feb 3	27	27	26	27	27	28	28	25	25	27	28	27	28	28	28	28	29	27	S	26	21	19	24	23	19.0	29.0	26.2
Feb 4	25	20	23	26	23	27	22	27	28	28	28	27	27	27	24	27	26	S	28	28	28	28	27	26	20.0	28.0	26.1
Feb 5	24	25	25	25	25	25	24	24	24	25	26	26	27	29	30	29	S	34	33	33	34	34	34	34	24.0	34.0	28.2
Feb 6	30	44	45	46	46	45	45	45	45	45	45	45	45	45	45	S	44	44	45	44	44	43	43	43	30.0	46.0	**44.0**
Feb 7	41	42	42	41	44	45	42	45	44	43	42	42	43	43	S	42	42	41	41	41	41	40	41	41	40.0	45.0	42.1
Feb 8	42	42	42	42	42	42	42	42	42	42	42	42	43	S	44	43	43	43	43	42	39	41	41	43	39.0	44.0	42.1
Feb 9	42	40	41	40	38	37	37	36	36	37	36	36	S	36	35	33	35	36	35	35	34	34	35	36	33.0	42.0	36.5
Feb 10	38	40	43	43	42	42	43	44	44	44	42	S	41	40	41	43	39	41	38	39	41	43	44	44	38.0	44.0	41.7
Feb 11	45	43	41	40	30	27	25	20	22	24	S	26	27	27	29	29	27	23	28	29	34	34	33	30	20.0	45.0	30.1
Feb 12	30	24	21	24	25	15	5	9	12	S	26	29	30	30	30	28	20	25	25	32	38	41	40	37	5.0	41.0	25.9
Feb 13	37	41	41	40	39	39	37	36	S	26	29	30	30	31	33	33	35	27	25	21	24	22	23	21	21.0	41.0	31.3
Feb 14	22	24	25	26	26	26	26	S	21	25	27	26	27	28	30	30	20	20	15	11	22	26	27	31	11.0	31.0	24.4
Feb 15	31	31	29	28	27	27	S	28	29	29	29	29	28	28	28	28	27	26	29	28	27	27	28	27	26.0	31.0	28.2
Feb 16	27	27	27	27	26	S	25	25	25	25	26	25	C	C	C	C	28	28	27	27	28	28	28	29	25.0	29.0	26.7
Feb 17	28	28	28	26	S	29	33	33	30	24	25	27	27	28	29	29	29	29	28	28	30	32	35	36	24.0	36.0	29.2
Feb 18	35	34	34	S	34	34	35	35	34	35	36	37	36	36	35	36	35	34	34	33	32	31	29	30	29.0	37.0	34.1
Feb 19	34	36	S	38	38	38	32	30	32	33	34	34	35	35	36	36	35	33	33	32	33	33	33	33	30.0	38.0	34.2
Feb 20	33	S	34	34	33	33	33	33	33	33	33	34	34	34	34	33	34	32	20	7	15	20	24	26	7.0	34.0	29.5
Feb 21	S	26	27	26	25	24	27	28	30	32	34	35	34	35	35	36	34	34	34	34	32	32	32	S	24.0	36.0	31.2
Feb 22	33	31	34	29	23	27	24	28	23	34	35	34	34	35	37	38	37	35	30	30	29	25	S	32	23.0	38.0	31.2
Feb 23	35	35	35	34	34	34	35	34	33	34	38	41	41	41	40	40	39	37	38	39	38	S	39	39	33.0	41.0	37.1
Feb 24	39	42	**47**	**47**	43	42	36	33	17	23	37	38	38	38	39	37	40	40	41	36	S	32	31	30	17.0	**47.0**	36.8
Feb 25	33	39	39	39	38	37	35	35	34	38	39	40	41	41	42	42	42	43	43	S	39	40	41	40	33.0	43.0	39.1
Feb 26	40	41	38	36	32	33	27	19	19	28	31	35	34	34	37	37	37	35	S	35	36	35	35	35	19.0	41.0	33.4
Feb 27	34	34	35	36	35	33	32	31	32	32	33	34	35	35	35	35	35	S	33	33	33	33	33	31	31.0	36.0	33.6
Feb 28	30	26	22	28	28	26	21	23	26	28	28	29	30	29	30	29	S	28	28	28	28	25	27	27	21.0	30.0	27.1
Diurnal Maximum	45	44	47	47	46	45	45	45	45	45	45	45	45	45	45	43	44	44	45	44	44	43	44	44			
Diurnal Average	32.6	33.2	33.1	33.1	32.5	32.2	30.6	30.3	29.3	31.5	32.9	32.9	33.8	33.7	34.2	34.0	33.6	32.7	31.8	30.7	31.8	31.1	32.1	31.9			

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.

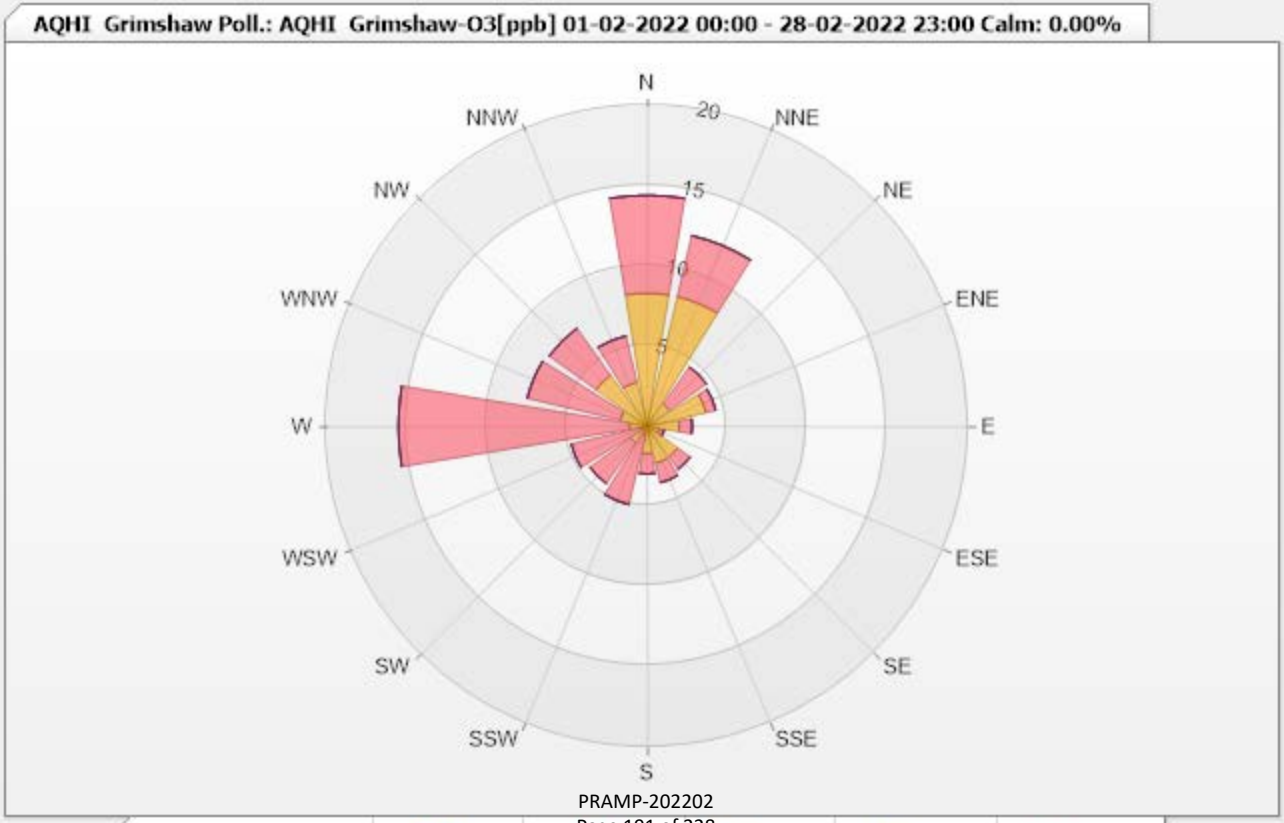

Timeseries Chart of Hourly Average for O3 - AQHI - Grimshaw Station
Concentration (ppb)
AAAQO (ppb)
0
10
20
30
40
50
60
70
80
01-02-2022 00:00
02-02-2022 06:00
03-02-2022 12:00
04-02-2022 18:00
06-02-2022 00:00
07-02-2022 06:00
08-02-2022 12:00
09-02-2022 18:00
11-02-2022 00:00
12-02-2022 06:00
13-02-2022 12:00
14-02-2022 18:00
16-02-2022 00:00
17-02-2022 06:00
18-02-2022 12:00
19-02-2022 18:00
21-02-2022 00:00
22-02-2022 06:00
23-02-2022 12:00
24-02-2022 18:00
26-02-2022 00:00
27-02-2022 06:00
28-02-2022 12:00
Hourly Value (ppb)
AAAQO (76 ppb)



Classes	O3
<=0	0.00%
0 - 10	0.63%
10 - 20	2.19%
20 - 30	40.06%
30 - 40	38.50%
40 - 50	18.62%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.09% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	8.29	6.1	0	0	0	14.39
NNE	8.29	3.91	0	0	0	12.2
NE	1.72	2.82	0	0	0	4.54
ENE	3.76	0.63	0	0	0	4.39
E	2.03	0.78	0	0	0	2.81
ESE	0.78	0.31	0	0	0	1.09
SE	2.35	0.94	0	0	0	3.29
SSE	2.35	1.25	0	0	0	3.6
S	1.72	1.25	0	0	0	2.97
SSW	0.47	4.54	0	0	0	5.01
SW	1.25	3.13	0	0	0	4.38
WSW	0.31	4.54	0	0	0	4.85
W	1.1	14.4	0	0	0	15.5
WNW	1.72	5.95	0	0	0	7.67
NW	3.91	3.6	0	0	0	7.51
NNW	2.82	2.97	0	0	0	5.79
Summary	42.87	57.12	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppb)
43 0-30
57 30-50
0 50-76
0 76-159
0 >159.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

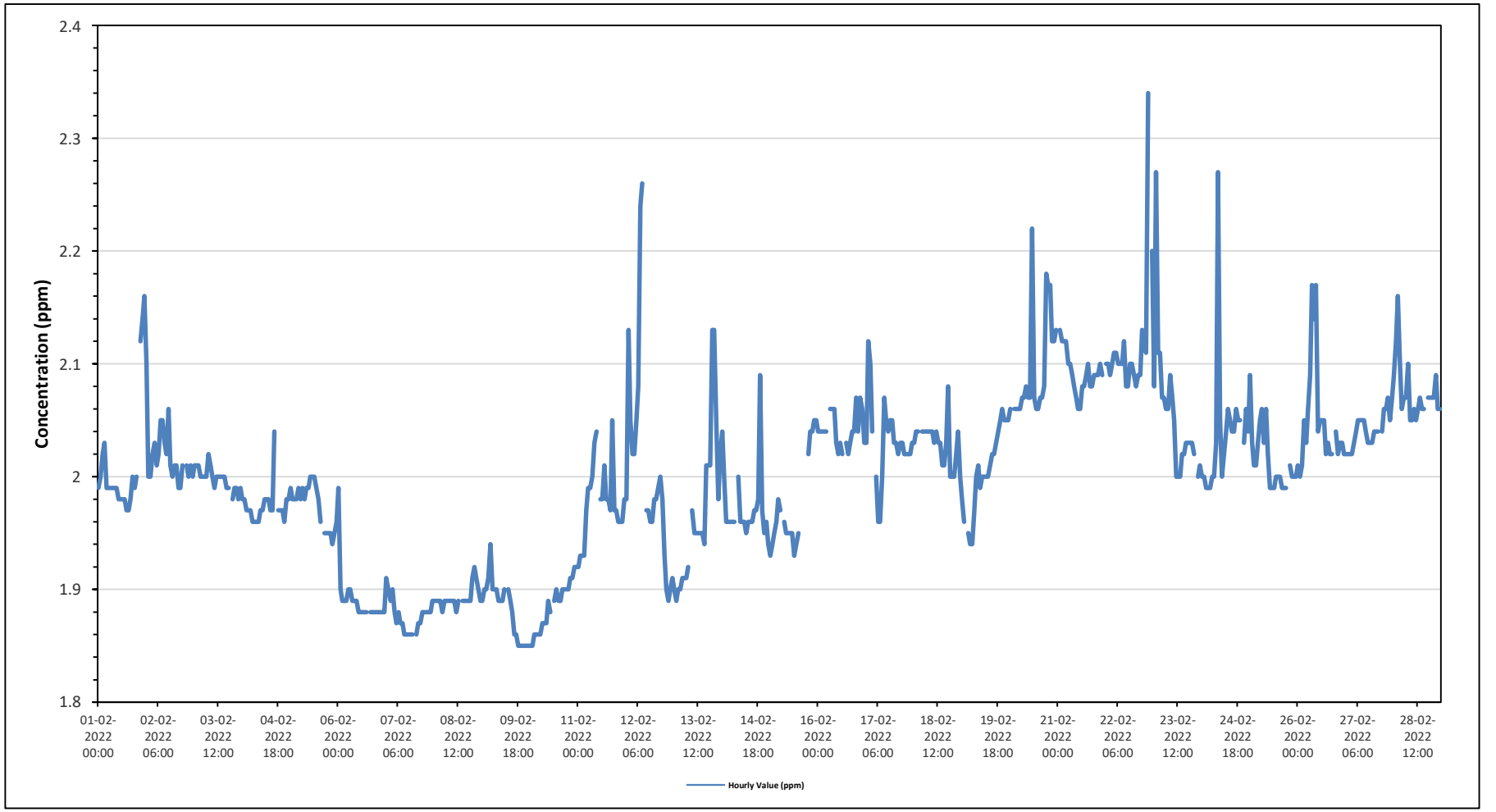
Maximum Hourly Value:	2.34	ppm	on February 22 at hour 21	Hours in Service:	672
Maximum Daily Value:	2.11	ppm	on February 22	Hours of Data:	638
Minimum Hourly Value:	1.85	ppm	on February 9 at hour 18	Hours of Missing Data:	1
Minimum Daily Value:	1.88	ppm	on February 7	Hours of Calibration:	33
Monthly Average:	2.00	ppm		Operational Uptime:	99.9

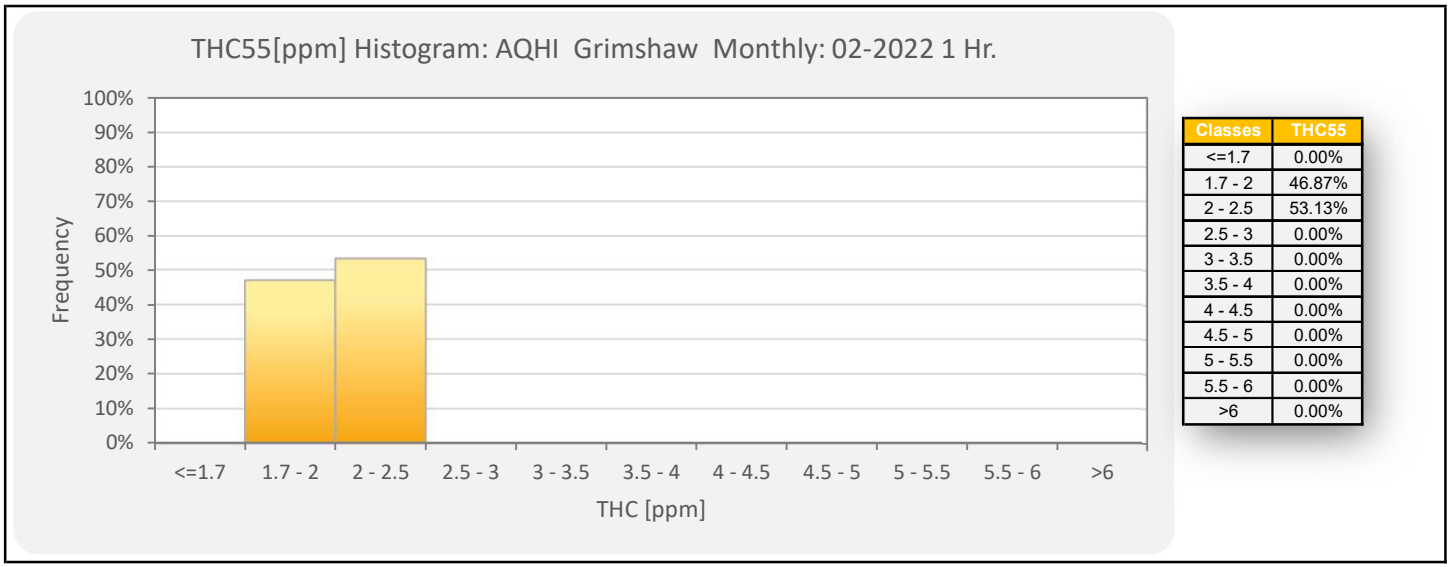
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	1.99	2.00	2.02	2.03	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.98	2.00	1.99	2.00	S	2.12	2.14	2.16	1.97	2.16	2.01
Feb 2	2.10	2.00	2.00	2.02	2.03	2.01	2.02	2.05	2.05	2.03	2.02	2.06	2.01	2.00	2.01	2.01	1.99	1.99	2.01	S	2.01	2.00	2.01	2.00	1.99	2.10	2.02
Feb 3	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.02	2.01	2.00	1.99	2.00	2.00	2.00	2.00	2.00	1.99	1.99	S	1.98	1.99	1.99	1.98	1.99	1.98	2.02	2.00
Feb 4	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.97	1.97	1.98	1.98	1.98	1.97	1.97	2.04	S	1.97	1.97	1.97	1.96	1.98	1.98	1.96	2.04	1.97
Feb 5	1.99	1.98	1.98	1.98	1.99	1.98	1.99	1.98	1.99	1.99	2.00	2.00	2.00	1.99	1.98	1.96	S	1.95	1.95	1.95	1.95	1.94	1.95	1.96	1.94	2.00	1.98
Feb 6	1.99	1.90	1.89	1.89	1.89	1.90	1.90	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	S	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.99	1.89
Feb 7	1.91	1.90	1.89	1.90	1.88	1.87	1.88	1.87	1.87	1.86	1.86	1.86	1.86	1.86	S	1.86	1.87	1.87	1.88	1.88	1.88	1.88	1.88	1.89	1.86	1.91	1.88
Feb 8	1.89	1.89	1.89	1.89	1.88	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.89	S	1.89	1.89	1.89	1.89	1.89	1.91	1.92	1.91	1.90	1.89	1.88	1.92	1.89
Feb 9	1.89	1.90	1.90	1.91	1.94	1.90	1.90	1.90	1.89	1.89	1.89	1.90	S	1.90	1.89	1.88	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.85	**1.85**	1.94	1.88
Feb 10	1.85	1.85	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.89	1.88	S	1.89	1.90	1.89	1.89	1.90	1.90	1.90	1.90	1.91	1.91	1.92	1.92	**1.85**	1.92	1.88
Feb 11	1.92	1.93	1.93	1.93	1.97	1.99	1.99	2.00	2.03	2.04	S	1.98	1.98	2.01	1.98	1.98	1.97	2.05	1.97	1.97	1.96	1.96	1.96	1.98	1.92	2.05	1.98
Feb 12	1.98	2.13	2.05	2.02	2.02	2.05	2.08	2.24	2.26	S	1.97	1.97	1.96	1.96	1.98	1.98	1.99	2.00	1.98	1.93	1.90	1.89	1.90	1.91	1.89	2.26	2.01
Feb 13	1.90	1.89	1.90	1.90	1.91	1.91	1.91	1.92	S	1.97	1.95	1.95	1.95	1.95	1.95	1.94	2.01	2.01	2.01	2.13	2.13	2.05	1.98	2.02	1.89	2.13	1.97
Feb 14	2.04	2.00	1.96	1.96	1.96	1.96	1.96	S	2.00	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.97	1.97	1.98	2.09	1.97	1.95	1.96	1.94	1.94	2.09	1.97
Feb 15	1.93	1.94	1.95	1.96	1.98	1.97	S	1.96	1.95	1.95	1.95	1.95	1.93	1.94	1.95	C	C	C	C	2.02	2.04	2.04	2.05	2.05	1.93	2.05	1.97
Feb 16	2.04	2.04	2.04	2.04	2.04	S	2.06	2.06	2.06	2.03	2.02	2.03	2.02	Y	2.03	2.02	2.03	2.04	2.04	2.07	2.04	2.07	2.06	2.03	2.02	2.07	2.04
Feb 17	2.03	2.12	2.10	2.04	S	2.00	1.96	1.96	2.00	2.07	2.05	2.04	2.05	2.05	2.03	2.03	2.02	2.03	2.03	2.02	2.02	2.02	2.02	2.03	1.96	2.12	2.03
Feb 18	2.03	2.04	2.04	S	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.04	2.03	2.03	2.01	2.01	2.03	2.08	2.00	2.00	2.00	2.02	2.04	2.00	2.00	2.08	2.03
Feb 19	1.98	1.96	S	1.95	1.94	1.94	1.97	2.00	2.01	1.99	2.00	2.00	2.00	2.00	2.01	2.02	2.02	2.03	2.04	2.05	2.06	2.05	2.05	2.05	1.94	2.06	2.01
Feb 20	2.06	S	2.06	2.06	2.06	2.06	2.07	2.07	2.08	2.07	2.07	2.22	2.07	2.06	2.06	2.07	2.07	2.08	2.18	2.17	2.17	2.12	2.12	2.13	2.06	2.22	2.09
Feb 21	S	2.13	2.12	2.12	2.12	2.10	2.10	2.09	2.08	2.07	2.06	2.06	2.08	2.08	2.09	2.10	2.08	2.08	2.09	2.09	2.09	2.10	2.09	S	2.06	2.13	2.09
Feb 22	2.10	2.10	2.09	2.10	2.11	2.11	2.10	2.10	2.10	2.12	2.08	2.08	2.10	2.10	2.09	2.08	2.09	2.09	2.13	2.12	2.11	**2.34**	S	2.20	2.08	**2.34**	**2.11**
Feb 23	2.08	2.27	2.11	2.11	2.07	2.07	2.06	2.06	2.09	2.07	2.05	2.00	2.00	2.00	2.02	2.02	2.03	2.03	2.03	2.03	2.02	S	2.00	2.01	2.00	2.27	2.05
Feb 24	2.00	2.00	1.99	1.99	1.99	2.00	2.00	2.03	2.27	2.05	2.00	2.02	2.04	2.06	2.05	2.04	2.04	2.06	2.05	2.05	S	2.03	2.06	2.04	1.99	2.27	2.04
Feb 25	2.09	2.03	2.01	2.01	2.03	2.05	2.06	2.03	2.06	2.02	1.99	1.99	1.99	2.00	2.00	2.00	1.99	1.99	1.99	S	2.01	2.00	2.00	2.00	1.99	2.09	2.01
Feb 26	2.01	2.00	2.01	2.05	2.03	2.06	2.09	2.17	2.14	2.17	2.04	2.05	2.05	2.05	2.02	2.03	2.02	2.02	S	2.04	2.02	2.03	2.03	2.02	2.00	2.17	2.05
Feb 27	2.02	2.02	2.02	2.02	2.03	2.04	2.05	2.05	2.05	2.05	2.04	2.03	2.03	2.03	2.04	2.04	2.04	S	2.04	2.06	2.06	2.07	2.05	2.07	2.02	2.07	2.04
Feb 28	2.09	2.12	2.16	2.10	2.06	2.07	2.07	2.10	2.05	2.05	2.06	2.05	2.06	2.07	2.06	2.06	S	2.07	2.07	2.07	2.07	2.09	2.06	2.06	2.05	2.16	2.07
Diurnal Maximum	2.10	2.27	2.16	2.12	2.12	2.11	2.10	2.24	2.27	2.17	2.08	2.22	2.10	2.10	2.09	2.10	2.09	2.09	2.18	2.17	2.17	2.34	2.14	2.20			
Diurnal Average	2.00	2.00	2.00	1.99	1.99	1.99	2.00	2.01	2.03	2.00	1.99	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.01	2.00	2.01	2.00	2.00			

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 THC - AQHI - Grimshaw Station

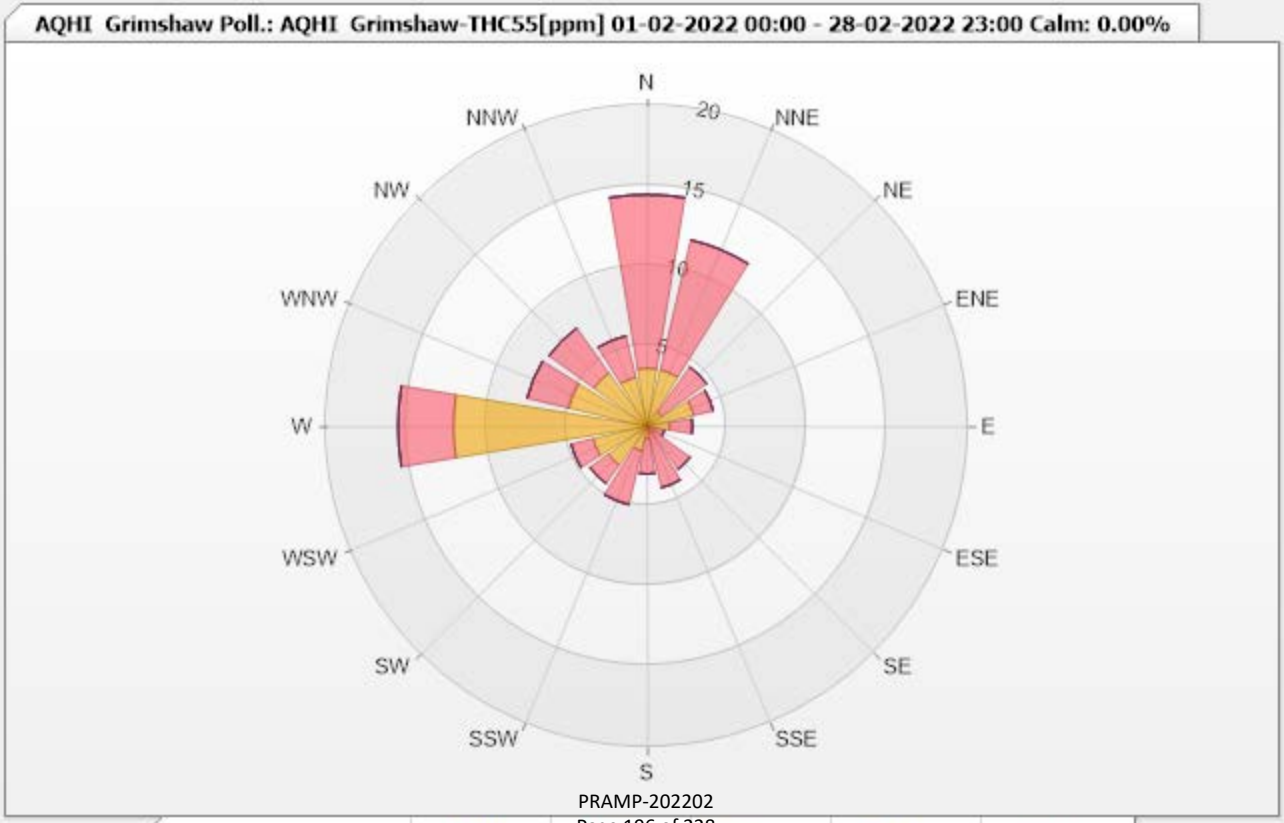




Classes	THC55
<=1.7	0.00%
1.7 - 2	46.87%
2 - 2.5	53.13%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.94% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	3.61	10.82	0	0	0	14.43
NNE	3.61	8.31	0	0	0	11.92
NE	1.1	3.45	0	0	0	4.55
ENE	2.98	1.25	0	0	0	4.23
E	1.41	1.41	0	0	0	2.82
ESE	0	1.1	0	0	0	1.1
SE	0.47	2.82	0	0	0	3.29
SSE	0.16	3.76	0	0	0	3.92
S	0.78	2.19	0	0	0	2.97
SSW	1.57	3.45	0	0	0	5.02
SW	2.98	1.41	0	0	0	4.39
WSW	3.45	1.41	0	0	0	4.86
W	12.07	3.45	0	0	0	15.52
WNW	5.02	2.66	0	0	0	7.68
NW	4.08	3.45	0	0	0	7.53
NNW	3.13	2.66	0	0	0	5.79
Summary	46.42	53.6	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
46 0-2
54 2-5
0 5-10
0 10-40
0 >40.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

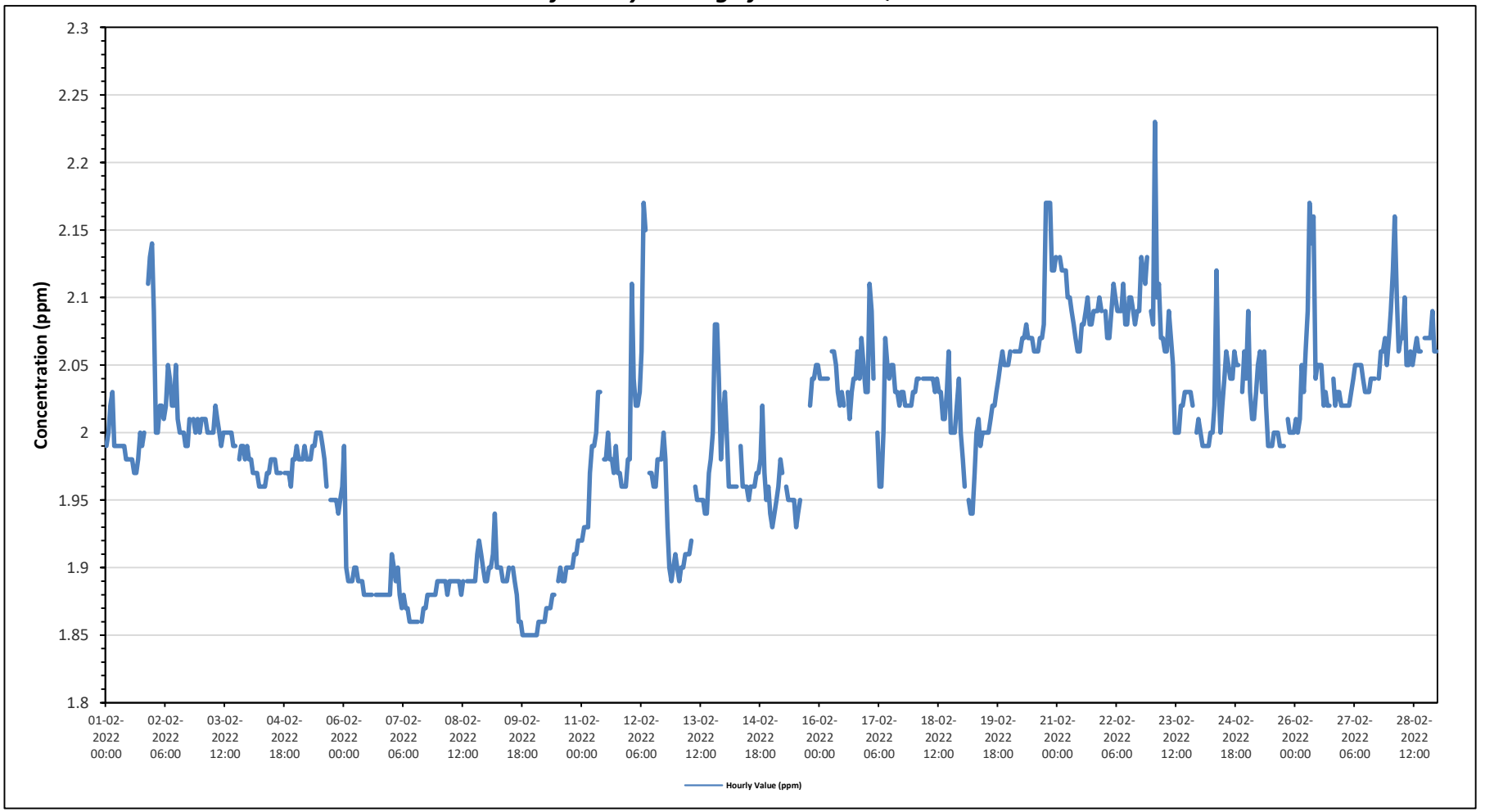
Maximum Hourly Value:	2.23	ppm	on February 23 at hour 1	Hours in Service:	672
Maximum Daily Value:	2.10	ppm	on February 22	Hours of Data:	638
Minimum Hourly Value:	1.85	ppm	on February 9 at hour 18	Hours of Missing Data:	1
Minimum Daily Value:	1.88	ppm	on February 7	Hours of Calibration:	33
Monthly Average:	2.00	ppm		Operational Uptime:	99.9

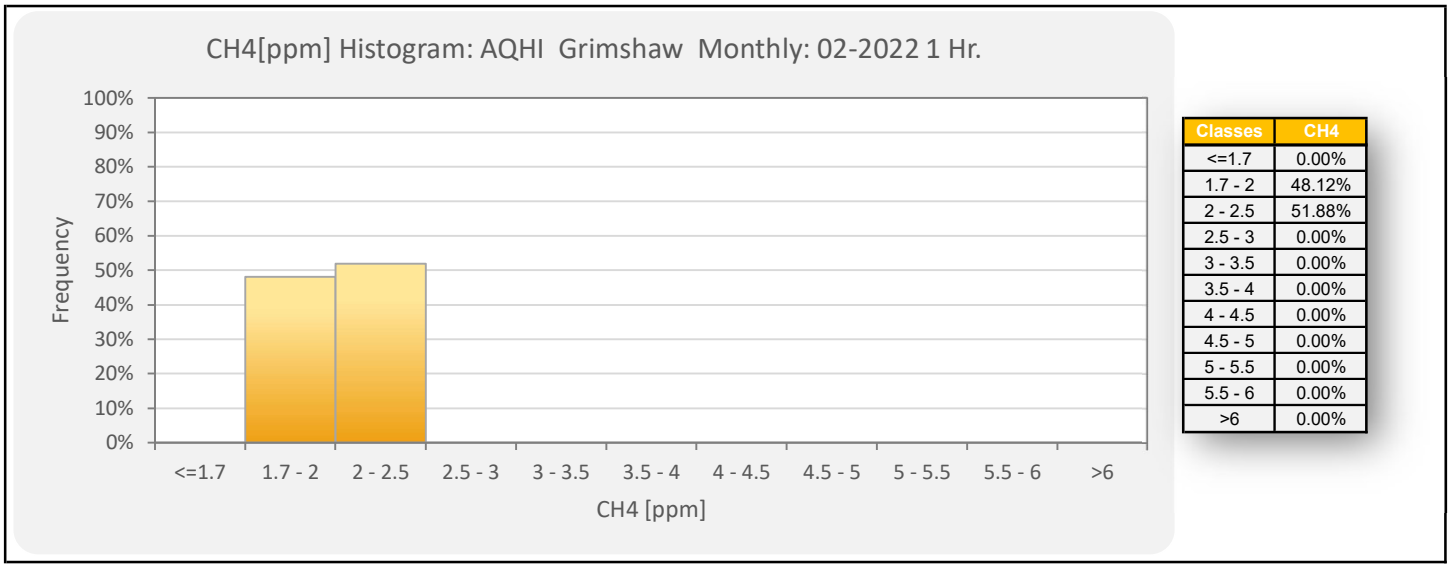
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	1.99	2.00	2.02	2.03	1.99	1.99	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.97	1.97	1.98	2.00	1.99	2.00	S	2.11	2.13	2.14	1.97	2.14	2.01
Feb 2	2.09	2.00	2.00	2.02	2.02	2.01	2.02	2.05	2.04	2.02	2.02	2.05	2.01	2.00	2.00	2.00	1.99	1.99	2.01	S	2.01	2.00	2.01	2.00	1.99	2.09	2.02
Feb 3	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.02	2.01	2.00	1.99	2.00	2.00	2.00	2.00	2.00	1.99	1.99	S	1.98	1.99	1.99	1.98	1.99	1.98	2.02	2.00
Feb 4	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.97	1.97	1.98	1.98	1.98	1.97	1.97	1.97	S	1.97	1.97	1.97	1.96	1.98	1.98	1.96	1.98	1.97
Feb 5	1.99	1.98	1.98	1.98	1.99	1.98	1.98	1.98	1.99	1.99	2.00	2.00	2.00	1.99	1.98	1.96	S	1.95	1.95	1.95	1.95	1.94	1.95	1.96	1.94	2.00	1.97
Feb 6	1.99	1.90	1.89	1.89	1.89	1.90	1.90	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	S	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.99	1.89
Feb 7	1.91	1.90	1.89	1.90	1.88	1.87	1.88	1.87	1.87	1.86	1.86	1.86	1.86	1.86	S	1.86	1.87	1.87	1.88	1.88	1.88	1.88	1.88	1.89	1.86	1.91	1.88
Feb 8	1.89	1.89	1.89	1.89	1.88	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.89	S	1.89	1.89	1.89	1.89	1.89	1.91	1.92	1.91	1.90	1.89	1.88	1.92	1.89
Feb 9	1.89	1.90	1.90	1.91	1.94	1.90	1.90	1.90	1.89	1.89	1.89	1.90	S	1.90	1.89	1.88	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.85	**1.85**	1.94	1.88
Feb 10	1.85	1.85	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.88	1.88	S	1.89	1.90	1.89	1.89	1.90	1.90	1.90	1.90	1.91	1.91	1.92	1.92	**1.85**	1.92	1.88
Feb 11	1.92	1.93	1.93	1.93	1.97	1.99	1.99	2.00	2.03	2.03	S	1.98	1.98	2.00	1.98	1.98	1.97	1.99	1.97	1.97	1.96	1.96	1.96	1.98	1.92	2.03	1.97
Feb 12	1.98	2.11	2.04	2.02	2.02	2.03	2.06	2.17	2.15	S	1.97	1.97	1.96	1.96	1.98	1.98	1.98	2.00	1.98	1.93	1.90	1.89	1.90	1.91	1.89	2.17	2.00
Feb 13	1.90	1.89	1.90	1.90	1.91	1.91	1.91	1.92	S	1.96	1.95	1.95	1.95	1.95	1.94	1.94	1.97	1.98	2.00	2.08	2.08	2.04	1.98	2.01	1.89	2.08	1.96
Feb 14	2.03	2.00	1.96	1.96	1.96	1.96	1.96	S	1.99	1.96	1.96	1.96	1.95	1.96	1.96	1.96	1.97	1.97	1.98	2.02	1.97	1.95	1.96	1.94	1.94	2.03	1.97
Feb 15	1.93	1.94	1.95	1.96	1.98	1.97	S	1.96	1.95	1.95	1.95	1.95	1.93	1.94	1.95	C	C	C	C	2.02	2.04	2.04	2.05	2.05	1.93	2.05	1.97
Feb 16	2.04	2.04	2.04	2.04	2.04	S	2.06	2.06	2.05	2.03	2.02	2.03	2.02	Y	2.03	2.01	2.03	2.04	2.04	2.06	2.04	2.07	2.05	2.03	2.01	2.07	2.04
Feb 17	2.03	2.11	2.09	2.04	S	2.00	1.96	1.96	2.00	2.07	2.05	2.04	2.05	2.05	2.03	2.03	2.02	2.03	2.03	2.02	2.02	2.02	2.02	2.03	1.96	2.11	2.03
Feb 18	2.03	2.04	2.04	S	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.04	2.03	2.03	2.01	2.01	2.03	2.06	2.00	2.00	2.00	2.02	2.04	2.00	2.00	2.06	2.03
Feb 19	1.98	1.96	S	1.95	1.94	1.94	1.97	2.00	2.01	1.99	2.00	2.00	2.00	2.00	2.01	2.02	2.02	2.03	2.04	2.05	2.06	2.05	2.05	2.05	1.94	2.06	2.01
Feb 20	2.06	S	2.06	2.06	2.06	2.06	2.07	2.07	2.08	2.07	2.07	2.07	2.06	2.06	2.06	2.07	2.07	2.08	2.17	2.17	2.17	2.12	2.12	2.13	2.06	2.17	2.09
Feb 21	S	2.13	2.12	2.12	2.12	2.10	2.10	2.09	2.08	2.07	2.06	2.06	2.08	2.08	2.09	2.10	2.08	2.08	2.09	2.09	2.09	2.10	2.09	S	2.06	2.13	2.09
Feb 22	2.09	2.07	2.07	2.09	2.11	2.10	2.09	2.09	2.09	2.11	2.08	2.08	2.10	2.10	2.09	2.08	2.09	2.09	2.13	2.12	2.11	2.13	S	2.09	2.07	2.13	**2.10**
Feb 23	2.08	**2.23**	2.10	2.11	2.07	2.07	2.06	2.06	2.09	2.07	2.05	2.00	2.00	2.00	2.02	2.02	2.03	2.03	2.03	2.03	2.02	S	2.00	2.01	2.00	**2.23**	2.05
Feb 24	2.00	1.99	1.99	1.99	1.99	2.00	2.00	2.02	2.12	2.04	2.00	2.02	2.04	2.06	2.05	2.04	2.04	2.06	2.05	2.05	S	2.03	2.06	2.04	1.99	2.12	2.03
Feb 25	2.09	2.03	2.01	2.01	2.03	2.05	2.06	2.03	2.06	2.02	1.99	1.99	1.99	2.00	2.00	2.00	1.99	1.99	1.99	S	2.01	2.00	2.00	2.00	1.99	2.09	2.01
Feb 26	2.01	2.00	2.01	2.05	2.03	2.06	2.09	2.17	2.14	2.16	2.04	2.05	2.05	2.05	2.02	2.03	2.02	2.02	S	2.04	2.02	2.03	2.03	2.02	2.00	2.17	2.05
Feb 27	2.02	2.02	2.02	2.02	2.03	2.04	2.05	2.05	2.05	2.05	2.04	2.03	2.03	2.03	2.04	2.04	2.04	S	2.04	2.06	2.06	2.07	2.05	2.07	2.02	2.07	2.04
Feb 28	2.09	2.12	2.16	2.10	2.06	2.07	2.07	2.10	2.05	2.05	2.06	2.05	2.06	2.07	2.06	2.06	S	2.07	2.07	2.07	2.07	2.09	2.06	2.06	2.05	2.16	2.07
Diurnal Maximum	2.09	2.23	2.16	2.12	2.12	2.10	2.10	2.17	2.15	2.16	2.08	2.08	2.10	2.10	2.09	2.10	2.09	2.09	2.17	2.17	2.17	2.13	2.13	2.14			
Diurnal Average	2.00	2.00	2.00	1.99	1.99	1.99	2.00	2.01	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.00			

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 CH4 - AQHI - Grimshaw Station

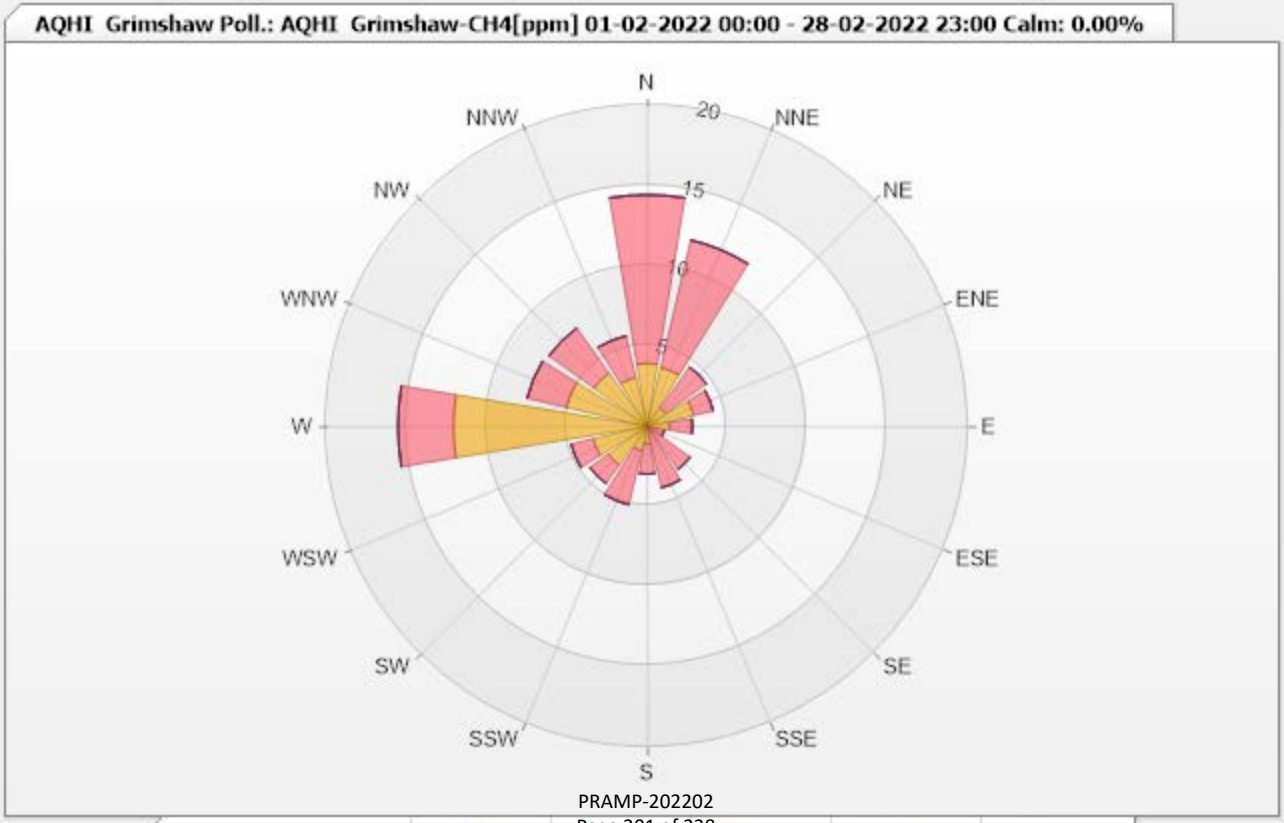




Classes	CH4
<=1.7	0.00%
1.7 - 2	48.12%
2 - 2.5	51.88%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.94% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	3.92	10.5	0	0	0	14.42
NNE	3.76	8.15	0	0	0	11.91
NE	1.41	3.13	0	0	0	4.54
ENE	2.98	1.25	0	0	0	4.23
E	1.41	1.41	0	0	0	2.82
ESE	0	1.1	0	0	0	1.1
SE	0.47	2.82	0	0	0	3.29
SSE	0.16	3.76	0	0	0	3.92
S	1.1	1.88	0	0	0	2.98
SSW	1.57	3.45	0	0	0	5.02
SW	2.98	1.41	0	0	0	4.39
WSW	3.45	1.41	0	0	0	4.86
W	12.07	3.45	0	0	0	15.52
WNW	5.17	2.51	0	0	0	7.68
NW	4.08	3.45	0	0	0	7.53
NNW	3.13	2.66	0	0	0	5.79
Summary	47.66	52.34	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
48 0-2
52 2-5
0 5-10
0 10-20
0 >20.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

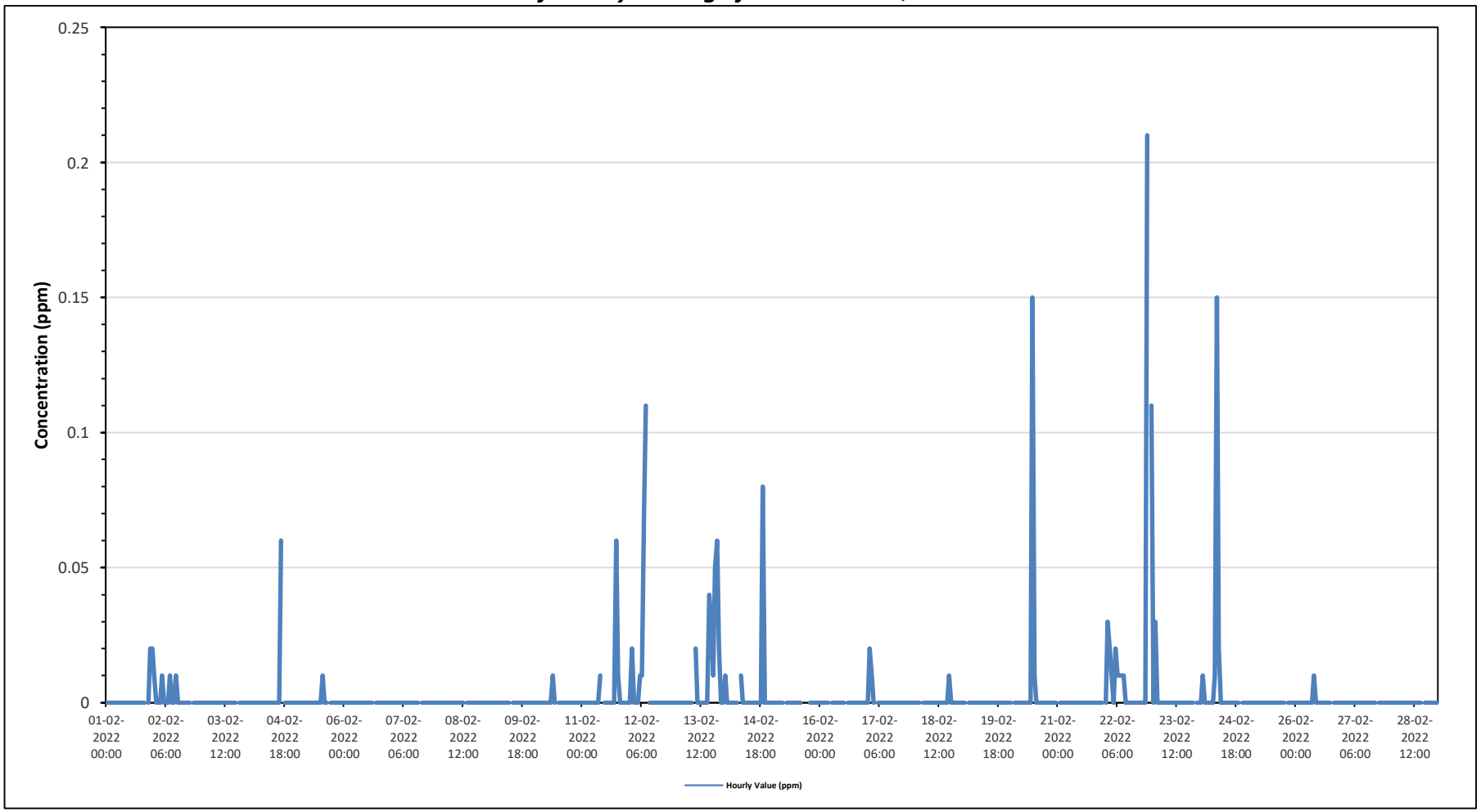
Maximum Hourly Value:	0.21	ppm	on February 22 at hour 21	Hours in Service:	672
Maximum Daily Value:	0.02	ppm	on February 22	Hours of Data:	638
Minimum Hourly Value:	0.00	ppm	on February 1 at hour 0	Hours of Missing Data:	1
Minimum Daily Value:	0.00	ppm	on February 3	Hours of Calibration:	33
Monthly Average:	0.00	ppm		Operational Uptime:	99.9

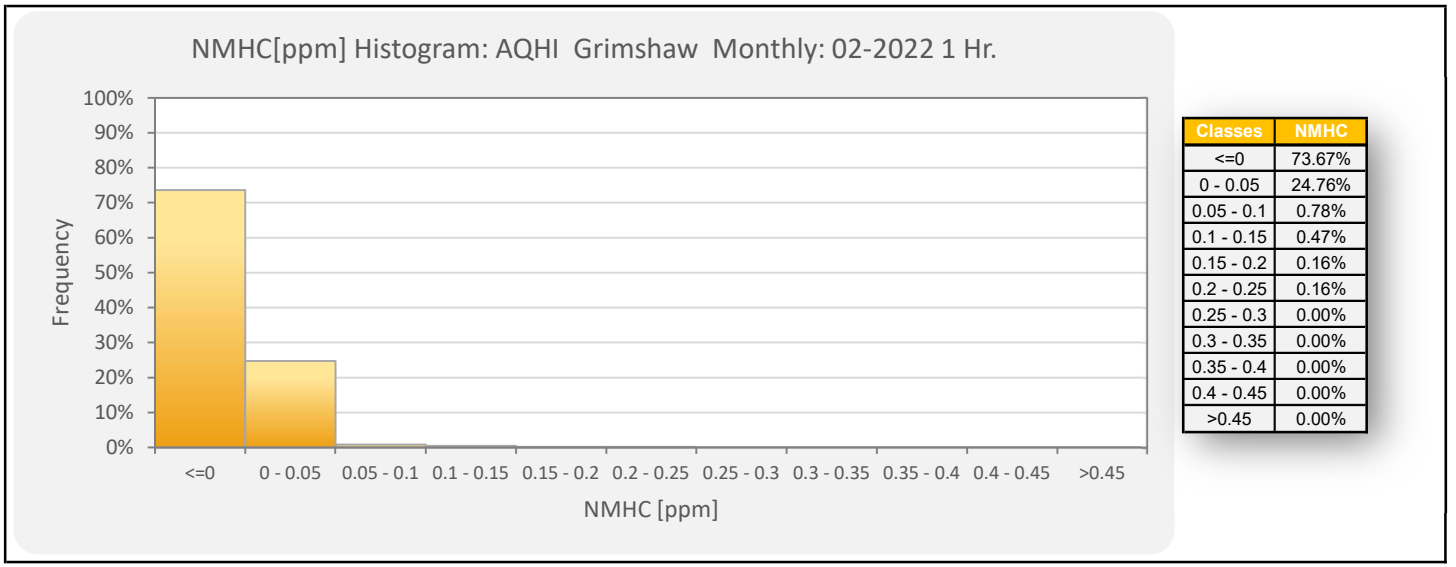
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.02	0.02	0.00	0.02	0.00
Feb 2	0.01	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	S	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Feb 3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
Feb 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Feb 6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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	0.01	0.00
Feb 11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	S	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
Feb 12	0.00	0.02	0.00	0.00	0.00	0.01	0.01	0.07	0.11	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	0.11	0.01
Feb 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.01	0.05	0.06	0.02	0.00	0.00	0.00	0.06	0.01
Feb 14	0.01	0.00	0.00	0.00	0.00	0.00	0.00	S	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.08	0.00
Feb 15	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	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 16	0.00	0.00	0.00	0.00	0.00	S	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	0.00	0.00	0.00
Feb 17	0.00	0.02	0.01	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	0.02	0.00
Feb 18	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Feb 19	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 20	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.01
Feb 21	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
Feb 22	0.00	0.03	0.02	0.01	0.00	0.02	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	0.00	**0.21**	S	0.11	0.00	**0.21**	**0.02**
Feb 23	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.03	0.00
Feb 24	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.15	0.02	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	0.15	0.01
Feb 25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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	0.01	0.00
Feb 27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Feb 28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diurnal Maximum	0.01	0.03	0.02	0.01	0.01	0.02	0.01	0.07	0.15	0.02	0.00	0.15	0.01	0.01	0.00	0.00	0.06	0.06	0.01	0.08	0.06	0.21	0.02	0.11			
Diurnal Average	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	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	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 - AQHI - Grimshaw Station

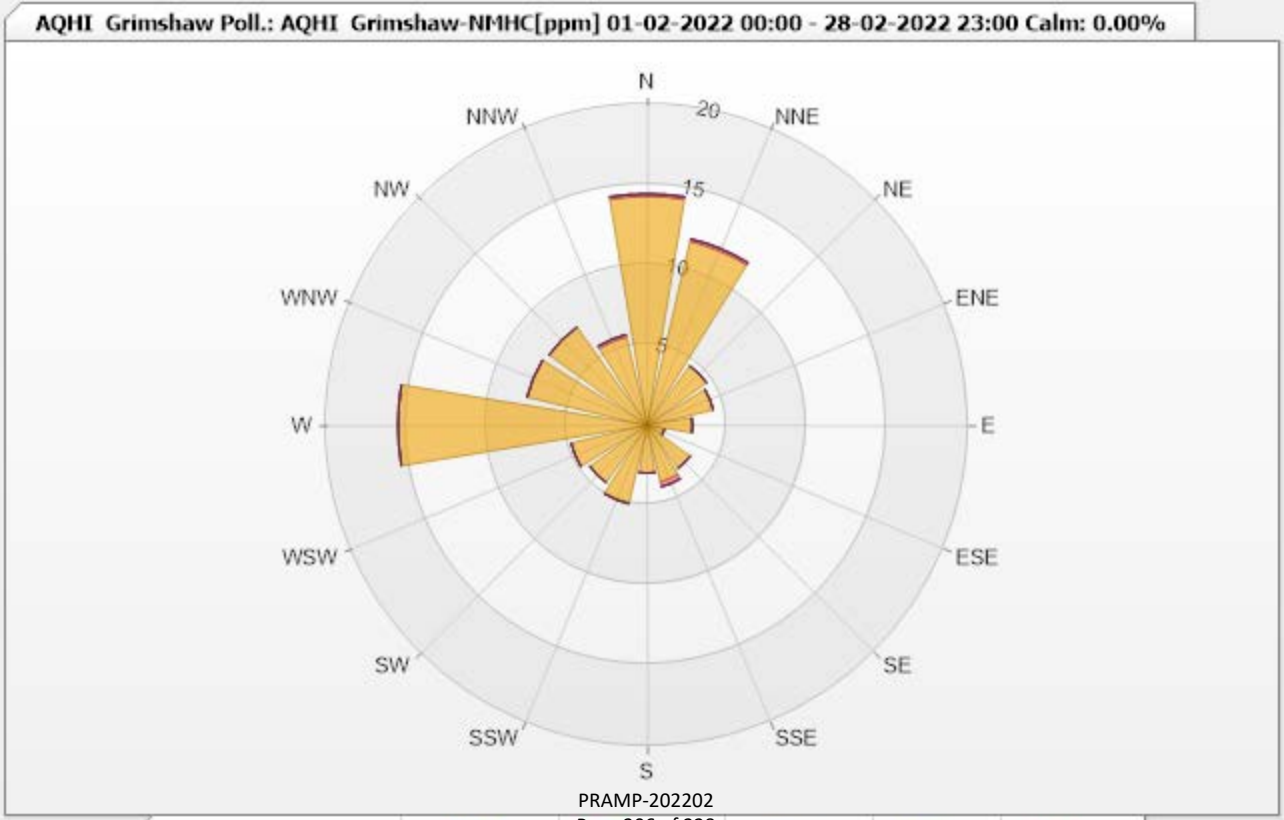




Classes	NMHC
<=0	73.67%
0 - 0.05	24.76%
0.05 - 0.1	0.78%
0.1 - 0.15	0.47%
0.15 - 0.2	0.16%
0.2 - 0.25	0.16%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.94% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	14.26	0.16	0	0	0	14.42
NNE	11.76	0.16	0	0	0	11.92
NE	4.55	0	0	0	0	4.55
ENE	4.23	0	0	0	0	4.23
E	2.82	0	0	0	0	2.82
ESE	1.1	0	0	0	0	1.1
SE	3.29	0	0	0	0	3.29
SSE	3.61	0.31	0	0	0	3.92
S	2.98	0	0	0	0	2.98
SSW	5.02	0	0	0	0	5.02
SW	4.39	0	0	0	0	4.39
WSW	4.86	0	0	0	0	4.86
W	15.52	0	0	0	0	15.52
WNW	7.68	0	0	0	0	7.68
NW	7.52	0	0	0	0	7.52
NNW	5.64	0.16	0	0	0	5.8
Summary	99.23	0.79	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (ppm)
99 0-0.1
1 0.1-0.3
0 0.3-1
0 1-2
0 >2.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

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

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

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

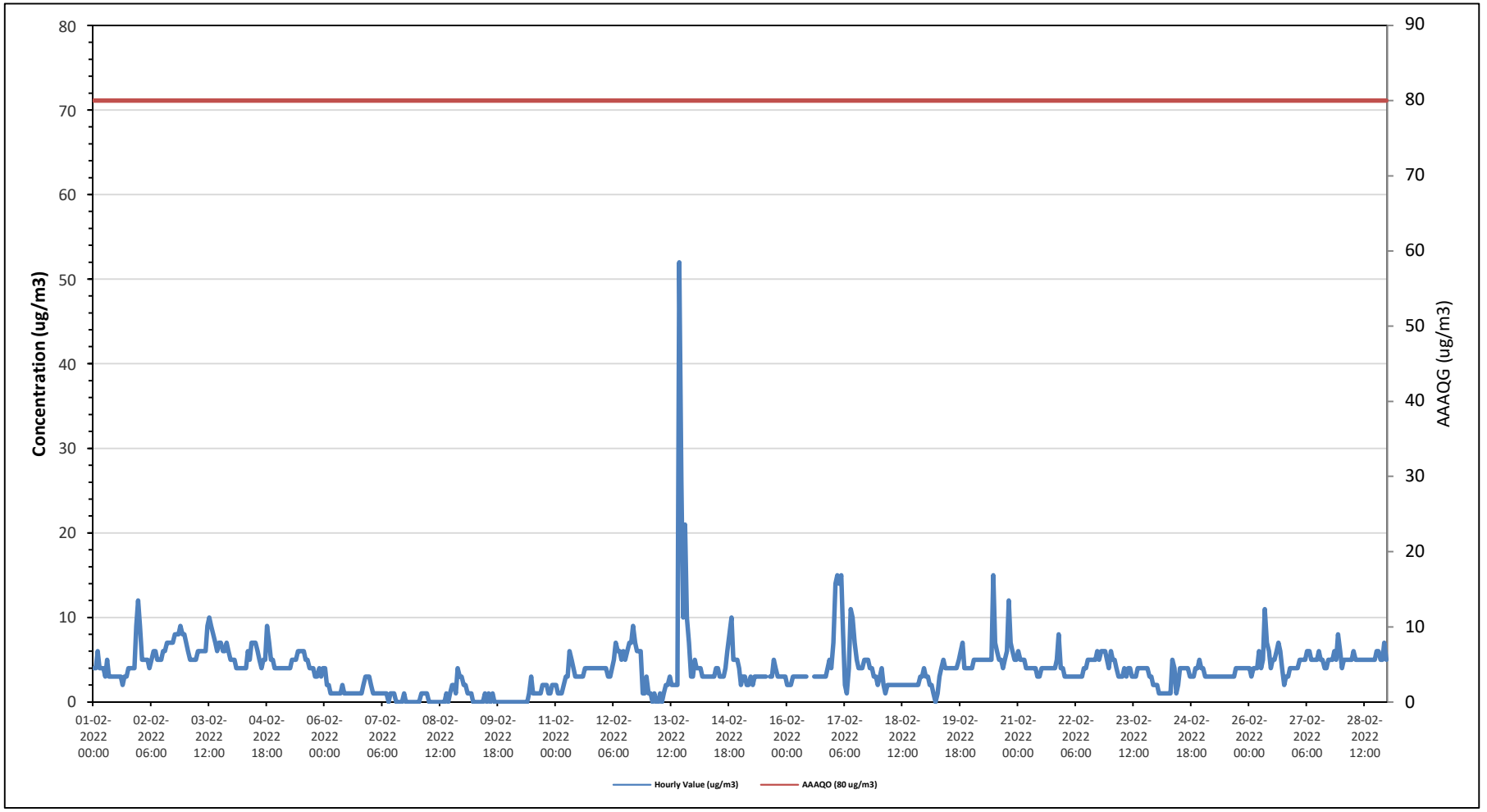
Maximum Hourly Value:	52.0 $\mu g/m^3$ on February 13 at hour 16	Hours in Service:	672
Maximum Daily Value:	6.5 $\mu g/m^3$ on February 3	Hours of Data:	668
Minimum Hourly Value:	0.0 $\mu g/m^3$ on February 7 at hour 9	Hours of Missing Data:	1
Minimum Daily Value:	0.4 $\mu g/m^3$ on February 9	Hours of Calibration:	3
Monthly Average:	3.8 $\mu g/m^3$	Operational Uptime:	99.9

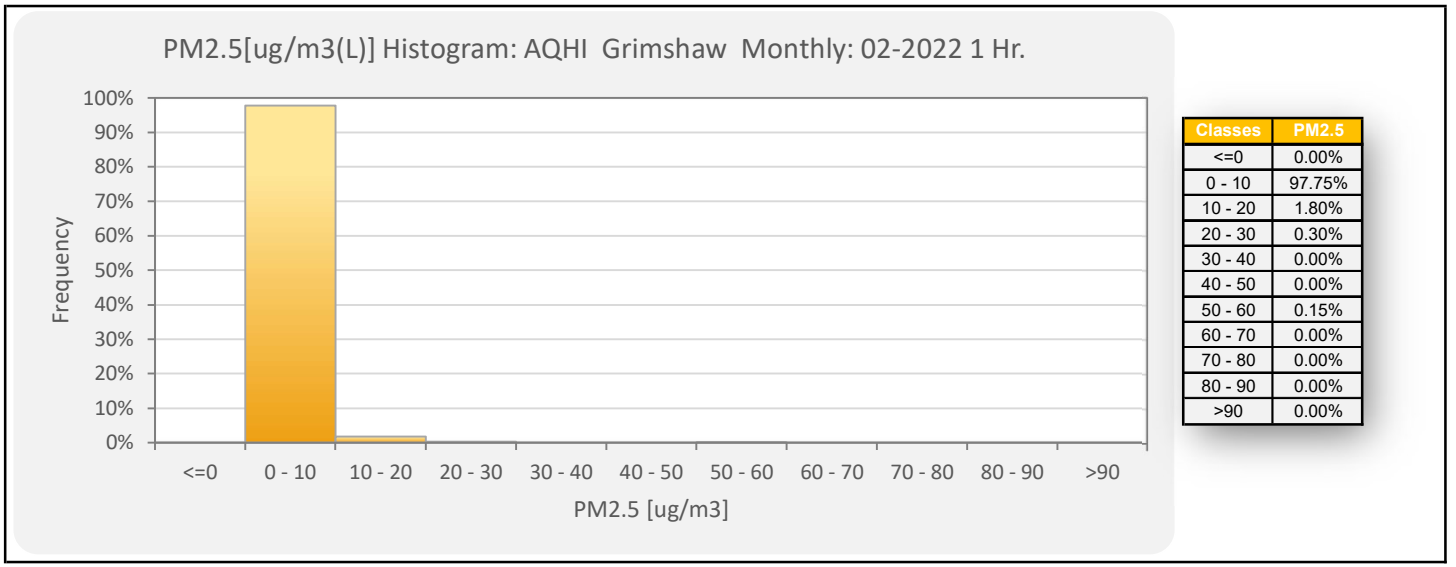
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	4	4	6	4	4	4	3	5	3	3	3	3	3	3	3	2	3	3	4	4	4	4	9	12	2	12	4.2
Feb 2	9	5	5	5	5	4	5	6	6	5	5	5	6	6	7	7	7	7	8	8	8	9	8	8	4	9	6.4
Feb 3	7	6	5	5	5	5	6	6	6	6	6	9	10	9	8	7	6	7	7	6	6	7	6	5	5	10	**6.5**
Feb 4	5	5	4	4	4	4	4	4	6	5	7	7	7	6	5	4	5	5	9	7	5	5	4	4	4	9	5.2
Feb 5	4	4	4	4	4	4	4	5	5	5	6	6	6	6	5	5	4	4	4	3	3	4	3	4	3	6	4.4
Feb 6	4	2	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	3	3	3	1	4	1.5
Feb 7	2	1	1	1	1	1	1	1	1	0	1	1	1	0	0	0	0	1	0	0	0	0	0	0	**0**	2	0.6
Feb 8	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	0	1	2	2	1	4	3	3	**0**	4	0.9
Feb 9	2	2	1	1	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	**0**	2	0.4
Feb 10	0	0	0	0	0	0	0	0	0	0	1	3	1	1	1	1	1	2	2	2	1	1	2	2	**0**	3	0.9
Feb 11	2	1	1	1	2	3	3	6	5	4	3	3	3	3	3	4	4	4	4	4	4	4	4	4	1	6	3.3
Feb 12	4	4	4	3	3	4	5	7	6	6	5	6	5	6	7	7	9	7	6	6	6	1	1	3	1	9	5.0
Feb 13	1	1	0	1	0	0	1	0	1	2	2	3	2	2	2	2	**52**	26	10	21	10	7	3	3	**0**	**52**	6.3
Feb 14	5	4	4	4	3	3	3	3	3	3	3	4	4	3	3	3	4	6	8	10	5	5	5	4	3	10	4.3
Feb 15	2	3	3	2	2	3	2	3	3	3	3	3	3	3	**Y**	3	3	5	4	3	3	3	3	3	2	5	3.0
Feb 16	2	2	2	3	3	3	3	3	3	3	3	**C**	**C**	**C**	3	3	3	3	3	3	3	4	5	4	2	5	3.0
Feb 17	7	14	15	14	15	8	2	1	4	11	10	7	5	4	4	4	5	5	5	4	4	3	3	2	1	15	**6.5**
Feb 18	3	4	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	4	1	4	2.3
Feb 19	3	3	2	2	1	0	1	3	4	5	4	4	4	4	4	4	4	5	6	7	4	4	4	4	**0**	7	3.6
Feb 20	4	5	5	5	5	5	5	5	5	5	5	15	7	6	5	5	4	5	6	12	7	6	5	5	4	15	5.9
Feb 21	6	5	5	5	4	4	4	4	4	4	3	3	4	4	4	4	4	4	4	4	5	8	4	4	3	8	4.3
Feb 22	3	3	3	3	3	3	3	3	3	3	4	4	5	5	5	5	5	6	5	6	6	6	5	4	3	6	4.2
Feb 23	6	5	5	4	3	3	3	4	3	4	4	3	3	3	4	4	4	4	4	4	3	3	2	2	2	6	3.6
Feb 24	2	1	1	1	1	1	1	1	5	4	1	2	4	4	4	4	4	3	3	3	4	4	5	4	1	5	2.8
Feb 25	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	3	4	3.3
Feb 26	4	3	4	4	4	6	4	5	11	7	6	4	5	5	6	7	6	4	2	3	3	4	4	4	2	11	4.8
Feb 27	4	4	5	5	5	5	6	6	5	5	5	5	6	5	5	4	4	5	5	5	6	5	8	6	4	8	5.2
Feb 28	4	5	5	5	5	5	6	5	5	5	5	5	5	5	5	5	5	5	6	6	5	5	7	5	4	7	5.2
Diurnal Maximum	9	14	15	14	15	8	6	7	11	11	10	15	10	9	8	7	52	26	10	21	10	9	9	12			
Diurnal Average	3.7	3.5	3.5	3.3	3.2	3.0	2.9	3.3	3.7	3.8	3.6	4.1	3.9	3.7	3.7	3.6	5.4	4.8	4.4	5.0	4.1	4.1	4.0	3.9			

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 PM2.5 - AQHI - Grimshaw Station

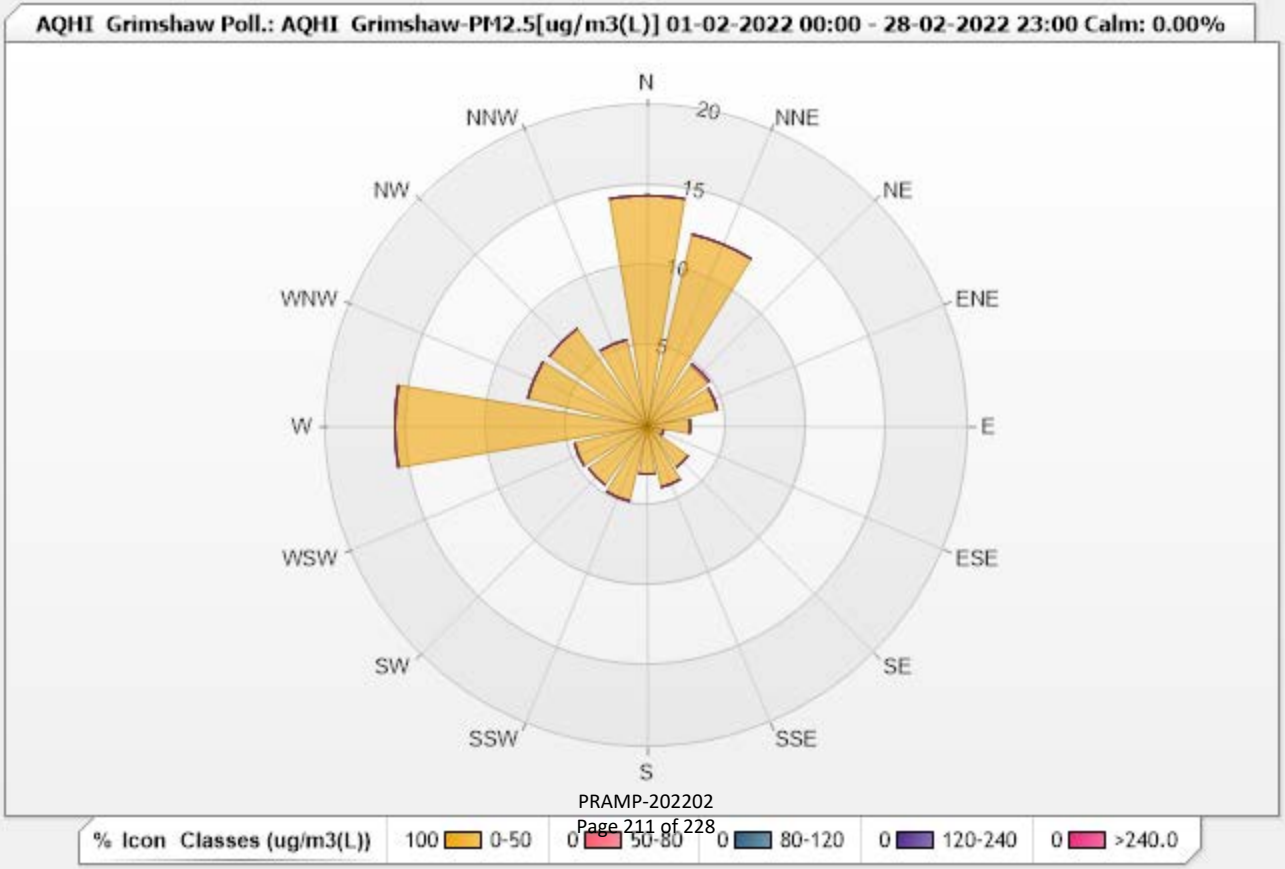




Classes	PM2.5
<=0	0.00%
0 - 10	97.75%
10 - 20	1.80%
20 - 30	0.30%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.15%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] Monthly: 02-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 99.40% Calm Avg: 0.00 [ug/m3(L)]

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	14.37	0	0	0	0	14.37
NNE	12.28	0	0	0	0	12.28
NE	4.64	0.15	0	0	0	4.79
ENE	4.49	0	0	0	0	4.49
E	2.69	0	0	0	0	2.69
ESE	1.05	0	0	0	0	1.05
SE	3.14	0	0	0	0	3.14
SSE	3.89	0	0	0	0	3.89
S	2.99	0	0	0	0	2.99
SSW	4.79	0	0	0	0	4.79
SW	4.49	0	0	0	0	4.49
WSW	4.64	0	0	0	0	4.64
W	15.72	0	0	0	0	15.72
WNW	7.63	0	0	0	0	7.63
NW	7.49	0	0	0	0	7.49
NNW	5.54	0	0	0	0	5.54
Summary	100	0.15	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% 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 - Grimshaw Station - February 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

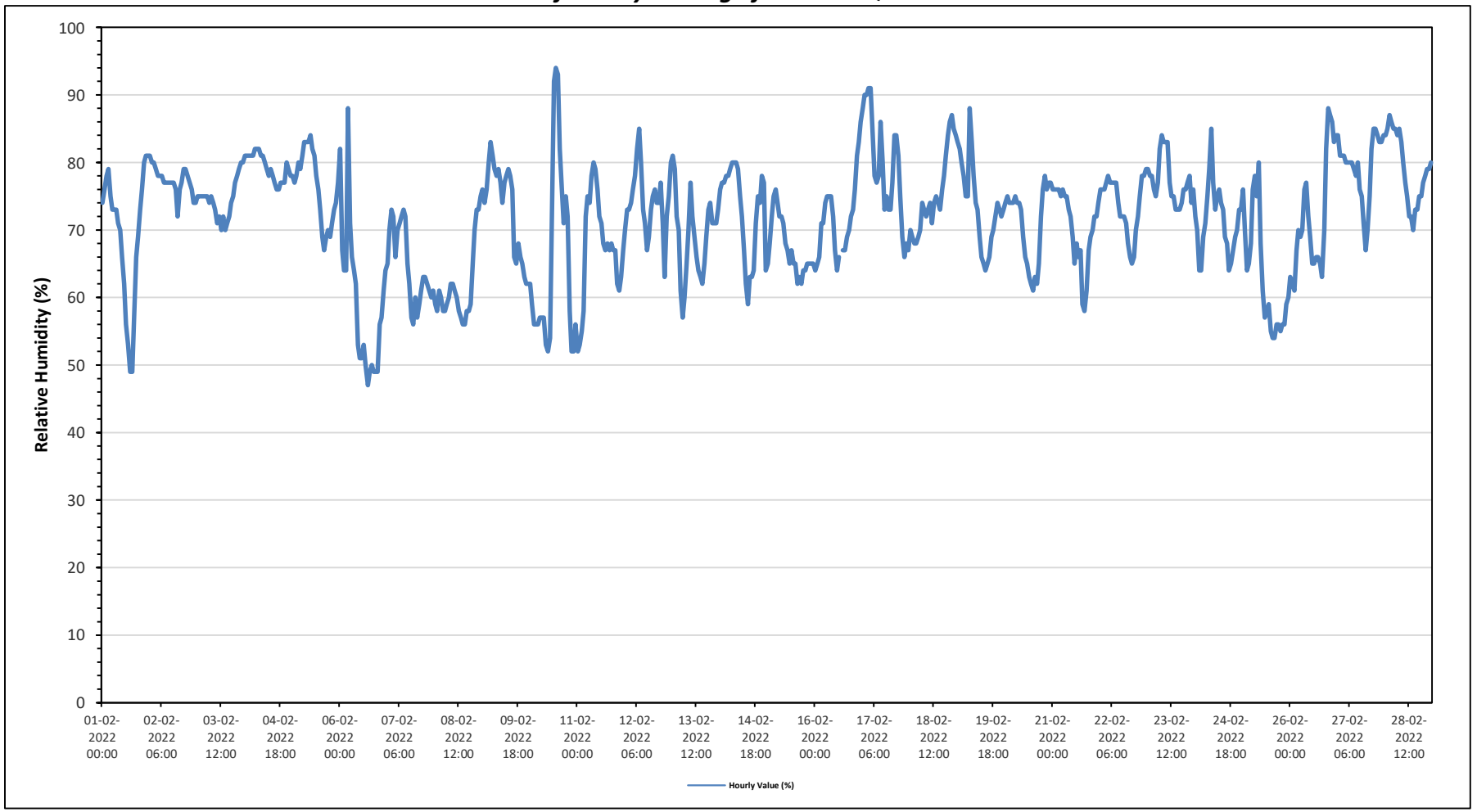
Maximum Hourly Value:	94	%	on February 10 at hour 13	Hours in Service:	672
Maximum Daily Value:	79.3	%	on February 4	Hours of Data:	672
Minimum Hourly Value:	47	%	on February 6 at hour 14	Hours of Missing Data:	0
Minimum Daily Value:	59.0	%	on February 6	Hours of Calibration:	0
Monthly Average:	71.7	%		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	74	76	78	79	75	73	73	73	71	70	66	62	56	53	49	49	57	66	69	73	76	80	81	81	49	81	69.2
Feb 2	81	80	80	79	78	78	78	77	77	77	77	77	77	76	72	76	77	79	79	78	77	76	74	74	72	81	77.3
Feb 3	75	75	75	75	75	75	74	75	74	73	71	72	70	72	70	71	72	74	75	77	78	79	80	80	70	80	74.5
Feb 4	81	81	81	81	81	82	82	82	81	81	80	79	78	79	78	77	76	76	77	77	77	80	79	78	76	82	**79.3**
Feb 5	78	77	78	80	79	81	83	83	83	84	82	81	78	76	73	69	67	69	70	69	71	73	74	77	67	84	76.5
Feb 6	82	67	64	64	88	71	66	64	62	53	51	51	53	50	**47**	49	50	49	49	49	56	57	61	64	**47**	88	59.0
Feb 7	65	70	73	72	66	70	71	72	73	72	65	62	57	56	60	57	59	61	63	63	62	61	60	61	56	73	64.6
Feb 8	59	58	61	60	58	58	59	60	62	62	61	60	58	57	56	56	58	58	59	65	70	73	73	75	56	75	61.5
Feb 9	76	74	76	80	83	81	79	78	79	77	74	77	78	79	78	76	66	65	68	66	65	63	62	62	62	83	73.4
Feb 10	62	59	56	56	56	57	57	57	53	52	54	72	92	**94**	93	82	76	71	75	72	58	52	52	56	52	**94**	65.2
Feb 11	52	53	55	58	72	75	74	78	80	79	76	72	71	68	67	68	67	68	67	67	62	61	63	67	52	80	67.5
Feb 12	70	73	73	74	76	78	82	85	80	73	71	67	69	73	75	76	74	74	77	71	63	72	75	80	63	85	74.2
Feb 13	81	79	72	70	61	57	60	65	70	77	72	69	66	64	63	62	65	69	73	74	71	71	71	73	57	81	69.0
Feb 14	76	77	77	78	78	79	80	80	80	79	75	72	67	62	59	63	63	64	71	75	74	78	77	64	59	80	72.8
Feb 15	65	68	72	75	76	74	72	72	71	68	67	65	67	65	65	62	63	62	64	64	65	65	65	65	62	76	67.4
Feb 16	64	65	66	71	71	74	75	75	75	72	67	64	66	68	67	67	69	70	72	73	76	81	83	86	64	86	71.5
Feb 17	88	90	90	91	91	85	78	77	78	86	80	73	75	73	73	77	84	84	81	75	69	66	68	67	66	91	79.1
Feb 18	70	69	68	68	69	70	74	73	72	73	74	71	74	75	74	73	76	78	81	84	86	87	85	84	68	87	75.3
Feb 19	83	82	80	78	75	75	88	83	78	74	73	69	66	65	64	65	66	69	70	72	74	73	72	73	64	88	73.6
Feb 20	74	75	74	74	74	75	74	74	73	69	66	65	63	62	61	63	62	65	72	76	78	76	77	77	61	78	70.8
Feb 21	76	76	76	76	75	76	75	75	73	72	69	65	68	66	67	59	58	61	67	69	70	72	72	74	58	76	70.3
Feb 22	76	76	76	77	78	77	77	77	77	74	72	72	72	71	68	66	65	66	70	72	75	78	78	79	65	79	73.7
Feb 23	79	78	78	76	75	77	82	84	83	83	83	77	75	75	73	73	73	74	76	76	77	78	74	76	73	84	77.3
Feb 24	72	70	64	64	69	71	75	79	85	77	73	75	76	74	73	69	68	64	65	67	69	70	73	73	64	85	71.5
Feb 25	76	70	64	65	68	76	78	75	80	68	61	57	58	59	55	54	54	56	56	55	56	56	59	60	54	80	63.2
Feb 26	63	62	61	67	70	69	70	76	77	72	69	65	65	66	66	65	63	70	82	88	87	86	83	84	61	88	71.9
Feb 27	84	81	81	81	80	80	80	80	79	78	80	76	75	71	67	70	75	82	85	85	84	83	83	84	67	85	**79.3**
Feb 28	84	85	87	86	85	85	84	85	83	80	77	75	72	72	70	73	73	75	75	77	78	79	79	80	70	87	79.1
Diurnal Maximum	88	90	90	91	91	85	88	85	85	86	83	81	92	94	93	82	84	84	85	88	87	87	85	86			
Diurnal Average	73.8	73.1	72.7	73.4	74.4	74.3	75.0	75.5	75.3	73.4	70.9	69.4	69.4	68.6	67.3	66.7	67.0	68.5	71.0	71.8	71.6	72.4	72.6	73.4			

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 - Grimshaw Station



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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

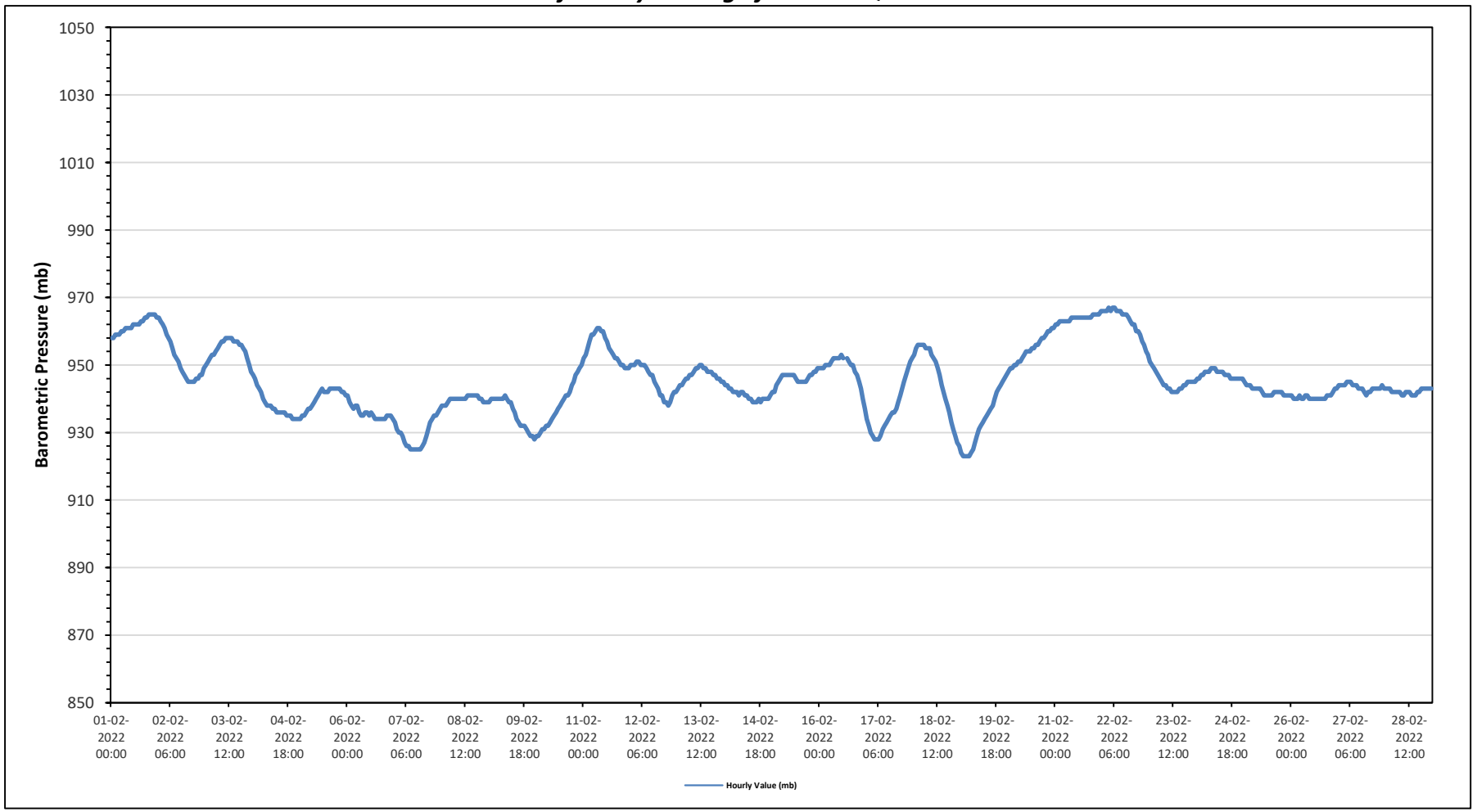
Maximum Hourly Value:	967	mb	on February 22 at hour 3	Hours in Service:	672
Maximum Daily Value:	964	mb	on February 21	Hours of Data:	672
Minimum Hourly Value:	923	mb	on February 19 at hour 1	Hours of Missing Data:	0
Minimum Daily Value:	929	mb	on February 7	Hours of Calibration:	0
Monthly Average:	945	mb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	958	958	959	959	959	960	960	961	961	961	961	962	962	962	962	963	963	964	964	965	965	965	965	964	958	965	961.8
Feb 2	964	963	962	961	959	958	957	955	953	952	951	949	948	947	946	945	945	945	945	946	946	947	947	949	945	964	951.7
Feb 3	950	951	952	953	953	954	955	956	957	957	958	958	958	958	957	957	957	956	956	955	954	952	950	948	948	958	954.7
Feb 4	947	946	944	943	942	940	939	938	938	938	937	937	936	936	936	936	936	935	935	935	934	934	934	934	934	947	937.9
Feb 5	934	935	935	936	937	937	938	939	940	941	942	943	942	942	942	943	943	943	943	943	943	942	942	941	934	943	940.3
Feb 6	941	939	938	937	938	938	936	935	935	936	936	935	936	935	934	934	934	934	934	934	935	935	935	934	934	941	935.8
Feb 7	933	931	930	930	929	927	926	926	925	925	925	925	925	925	926	927	929	931	933	934	935	935	936	937	925	937	929.4
Feb 8	938	938	938	939	940	940	940	940	940	940	940	940	940	941	941	941	941	941	941	940	940	939	939	939	938	941	939.8
Feb 9	939	940	940	940	940	940	940	940	941	940	939	939	937	936	934	933	932	932	932	931	930	929	929	928	928	941	935.9
Feb 10	929	929	930	931	931	932	932	933	934	935	936	937	938	939	940	941	941	942	944	945	947	948	949	950	929	950	938.0
Feb 11	952	953	955	957	959	959	960	961	961	960	960	958	957	955	954	953	952	952	951	950	950	949	949	949	949	961	954.8
Feb 12	950	950	950	951	951	950	950	950	949	948	947	947	945	944	943	941	941	939	939	938	939	941	942	942	938	951	945.3
Feb 13	943	944	944	945	946	946	947	947	948	949	949	950	950	949	949	948	948	948	947	947	946	946	945	945	943	950	946.9
Feb 14	944	944	943	943	942	942	942	941	942	942	941	941	940	940	939	939	939	940	939	940	940	940	940	941	939	944	941.0
Feb 15	942	942	944	945	946	947	947	947	947	947	947	947	946	945	945	945	945	945	946	947	947	948	948	949	942	949	946.0
Feb 16	949	949	949	950	950	950	951	952	952	952	952	953	952	952	952	951	950	950	948	947	945	943	940	937	937	953	949.0
Feb 17	934	932	930	929	928	928	928	929	931	932	933	934	935	936	936	937	939	941	943	945	947	949	951	952	928	952	936.6
Feb 18	953	955	956	956	956	956	955	955	955	953	952	951	949	947	944	942	940	938	936	933	931	929	927	926	926	956	945.6
Feb 19	924	**923**	**923**	**923**	**923**	924	925	927	929	931	932	933	934	935	936	937	938	940	942	943	944	945	946	947	**923**	947	933.5
Feb 20	948	949	949	950	950	951	951	952	953	954	954	954	955	955	956	956	957	958	958	959	960	960	961	961	948	961	954.6
Feb 21	962	962	963	963	963	963	963	963	964	964	964	964	964	964	964	964	964	964	964	965	965	965	965	966	962	966	**963.8**
Feb 22	966	966	966	**967**	966	**967**	**967**	966	966	966	965	965	965	964	963	962	962	960	960	959	957	956	954	953	953	**967**	962.8
Feb 23	951	950	949	948	947	946	945	944	944	943	943	942	942	942	942	943	943	944	944	945	945	945	945	945	942	951	944.9
Feb 24	946	946	947	947	948	948	948	949	949	949	948	948	948	948	947	947	947	946	946	946	946	946	946	946	946	949	947.2
Feb 25	945	944	944	944	943	943	943	943	943	942	941	941	941	941	941	942	942	942	942	942	941	941	941	941	941	945	942.2
Feb 26	941	940	940	940	941	940	940	941	941	940	940	940	940	940	940	940	940	940	941	941	941	942	943	943	940	943	940.6
Feb 27	944	944	944	944	945	945	945	944	944	944	943	943	943	942	941	942	942	943	943	943	943	943	944	943	941	945	943.4
Feb 28	943	943	943	942	942	942	942	942	941	941	942	942	942	941	941	941	942	942	943	943	943	943	943	943	941	943	942.2
Diurnal Maximum	966	966	966	967	966	967	967	966	966	966	965	965	965	964	964	964	964	964	964	965	965	965	965	966			
Diurnal Average	945	945	945	945	946	945	945	946	946	946	946	946	945	945	945	945	945	945	945	945	945	945	945	945			

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 - AQHI - Grimshaw Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

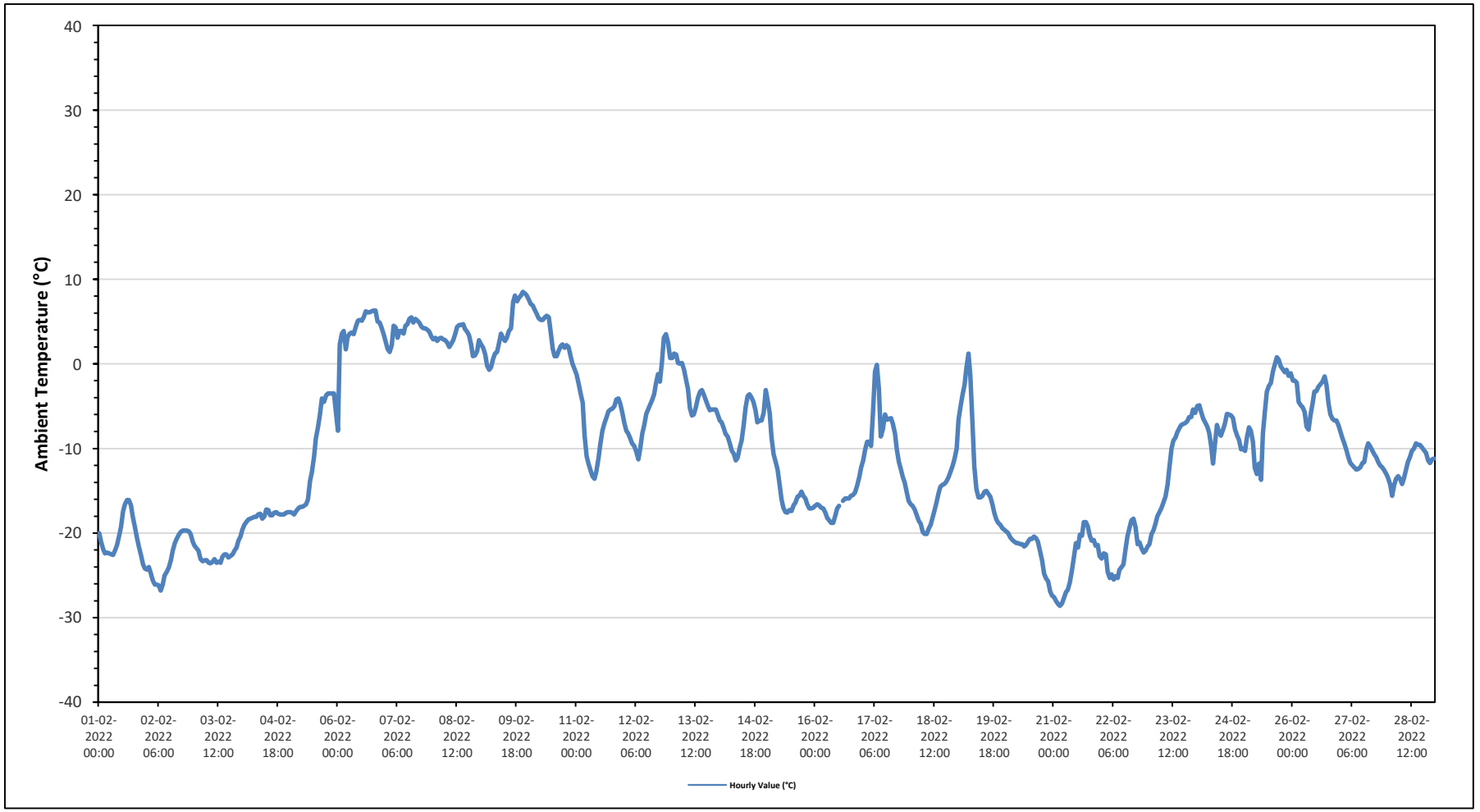
Maximum Hourly Value:	8.5	°C	on February 9 at hour 21	Hours in Service:	672
Maximum Daily Value:	4.1	°C	on February 6	Hours of Data:	672
Minimum Hourly Value:	-28.6	°C	on February 21 at hour 3	Hours of Missing Data:	0
Minimum Daily Value:	-23.5	°C	on February 21	Hours of Calibration:	0
Monthly Average:	-10.3	°C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	-20	-21	-21.9	-22.4	-22.3	-22.4	-22.5	-22.6	-22	-21.4	-20.3	-19.3	-17.4	-16.6	-16.1	-16.1	-16.7	-18.1	-19.3	-20.6	-21.7	-22.6	-23.7	-24.2	-24.2	-16.1	-20.5
Feb 2	-24.3	-24	-24.8	-25.6	-26.1	-26.1	-26.2	-26.8	-26.1	-25	-24.6	-24.1	-23.2	-22.1	-21.2	-20.7	-20.2	-19.9	-19.7	-19.7	-19.7	-19.8	-20.1	-21	-26.8	-19.7	-23.0
Feb 3	-21.5	-21.8	-22.1	-23.1	-23.3	-23.2	-23.2	-23.5	-23.6	-23.4	-23.1	-23.5	-23.4	-23.5	-22.8	-22.5	-22.5	-22.9	-22.7	-22.5	-22.1	-21.7	-20.9	-20.4	-23.6	-20.4	-22.6
Feb 4	-19.6	-19	-18.7	-18.4	-18.3	-18.2	-18.1	-18.1	-17.8	-17.7	-18.3	-18	-17.2	-17.3	-17.9	-17.9	-17.6	-17.5	-17.7	-17.8	-17.8	-17.8	-17.6	-17.5	-19.6	-17.2	-18.0
Feb 5	-17.5	-17.6	-17.8	-17.4	-17.1	-16.9	-16.9	-16.8	-16.6	-16	-13.8	-12.8	-11	-8.8	-7.5	-6.1	-4.1	-4.5	-3.7	-3.5	-3.5	-3.5	-3.5	-5.6	-17.8	-3.5	-10.9
Feb 6	-7.9	2.3	3.6	3.9	1.7	3.2	3.6	3.7	3.5	4.4	5.1	5.2	5.1	5.5	6.2	6.1	6.1	6.2	6.3	6.3	5	4.9	4.3	3.5	-7.9	6.3	**4.1**
Feb 7	2.7	1.8	1.4	2.2	4.5	4.3	3.1	3.9	3.9	3.6	4.5	4.7	5.3	5.5	4.9	5.3	5.1	4.8	4.4	4.2	4.2	4	3.8	3.2	1.4	5.5	4.0
Feb 8	2.9	3.1	2.7	3	3.1	2.9	2.8	2.5	2	2.4	2.8	3.6	4.4	4.6	4.6	4.7	4.1	3.8	3.4	2.3	0.9	1	1.5	2.8	0.9	4.7	3.0
Feb 9	2.3	1.9	1.1	-0.2	-0.7	-0.4	0.6	1.2	1.4	2.4	3.6	3.1	2.7	3.1	3.9	4.2	7.3	8.1	7.4	7.8	8.1	**8.5**	8.3	8.1	-0.7	**8.5**	3.9
Feb 10	7.6	7.1	6.9	6.4	5.9	5.4	5.2	5.2	5.5	5.7	5.5	3.8	1.8	0.9	0.9	1.5	2.1	2.3	1.9	2.2	2	0.9	0	-0.6	-0.6	7.6	3.6
Feb 11	-1.3	-2.4	-3.5	-4.6	-8.4	-10.9	-11.8	-12.6	-13.3	-13.6	-12.7	-11.2	-9.5	-7.9	-7	-6.3	-5.6	-5.4	-5.3	-5	-4.2	-4.1	-4.7	-5.8	-13.6	-1.3	-7.4
Feb 12	-6.9	-7.9	-8.2	-8.8	-9.4	-9.7	-10.4	-11.3	-10	-8.2	-7.3	-5.9	-5.4	-4.8	-4.3	-3.6	-2.3	-1.2	-2.1	0.3	3.1	3.5	2.5	0.7	-11.3	3.5	-4.9
Feb 13	0.7	1.2	1.1	0.1	0	0.1	-0.7	-1.8	-3	-5.2	-6.1	-6	-5.1	-4	-3.3	-3.1	-3.7	-4.3	-5	-5.5	-5.4	-5.4	-5.4	-6	-6.1	1.2	-3.2
Feb 14	-6.7	-6.9	-7.6	-8.3	-8.6	-9.4	-10.3	-10.6	-11.4	-11.1	-9.9	-9.1	-7.2	-5.2	-3.8	-3.6	-4	-4.5	-5.5	-6.9	-6.7	-6.7	-5.8	-3.1	-11.4	-3.1	-7.2
Feb 15	-4.3	-5.8	-8.7	-10.7	-11.5	-12.5	-14.1	-16	-17	-17.5	-17.6	-17.3	-17.4	-16.7	-16.4	-15.7	-15.6	-15.1	-15.6	-15.9	-16.6	-17.1	-17.1	-17	-17.6	-4.3	-14.6
Feb 16	-16.8	-16.6	-16.7	-17	-17.1	-17.6	-18.2	-18.5	-18.8	-18.8	-18	-17.1	-16.8	-16.7	-16.2	-15.9	-15.9	-15.9	-15.6	-15.5	-15.2	-14.4	-13.4	-12.3	-18.8	-12.3	-16.5
Feb 17	-11.4	-10.2	-9.2	-9.2	-9.7	-5.9	-0.9	-0.1	-3	-8.6	-7.7	-6	-6.6	-6.5	-6.4	-7.1	-8.2	-10.1	-11.6	-12.4	-13.4	-14	-15.2	-16.2	-16.2	-0.1	-8.7
Feb 18	-16.6	-16.8	-17.2	-17.9	-18.6	-18.9	-19.9	-20.1	-20.1	-19.5	-19	-18.2	-17.3	-16.4	-15.3	-14.5	-14.3	-14.2	-13.9	-13.4	-12.7	-12	-11.2	-10	-20.1	-10.0	-16.2
Feb 19	-6.6	-5	-3.7	-2.5	-0.5	1.2	-1.4	-6.9	-12.1	-14.8	-15.8	-15.8	-15.6	-15.1	-15	-15.4	-15.7	-16.6	-17.6	-18.4	-18.8	-19	-19.4	-19.6	-19.6	1.2	-12.1
Feb 20	-19.8	-20	-20.5	-20.8	-21	-21.2	-21.2	-21.3	-21.3	-21.6	-21.4	-21	-20.7	-20.7	-20.4	-20.6	-21	-22.1	-23.2	-24.8	-25.4	-25.7	-26.9	-27.4	-27.4	-19.8	-22.1
Feb 21	-27.6	-28	-28.4	**-28.6**	-28.3	-27.7	-27	-26.7	-25.8	-24.4	-22.7	-21.2	-21.7	-20.2	-20.3	-18.7	-18.7	-19.2	-20.3	-20.9	-20.8	-21.5	-21.4	-22.7	**-28.6**	-18.7	-23.5
Feb 22	-23	-22.4	-22.5	-24.6	-25.3	-24.9	-25.5	-25.1	-25.3	-24.3	-24	-23.7	-21.9	-20.4	-19.4	-18.5	-18.3	-19.3	-21.3	-21.1	-21.8	-22.3	-22.1	-21.6	-25.5	-18.3	-22.4
Feb 23	-21.3	-20.1	-19.7	-18.9	-18	-17.5	-17.1	-16.4	-15.7	-14.3	-12.2	-10	-9.1	-8.7	-8.1	-7.6	-7.2	-7.1	-7	-6.8	-6.3	-6.3	-5.4	-5.8	-21.3	-5.4	-11.9
Feb 24	-5	-4.9	-5.7	-6.5	-6.9	-7.4	-8.1	-9.7	-11.8	-9.3	-7.2	-8.1	-8.5	-7.8	-7.1	-5.9	-6	-6.1	-6.4	-7.8	-8.5	-9	-10.1	-10	-11.8	-4.9	-7.7
Feb 25	-10.3	-8.7	-7.5	-7.9	-9.2	-12.3	-13	-11.8	-13.7	-8.2	-5.5	-3.3	-2.6	-2.3	-0.9	-0.1	0.8	0.5	-0.3	-0.6	-1	-0.7	-1.4	-1.1	-13.7	0.8	-5.0
Feb 26	-2	-2	-2.2	-4.5	-4.9	-5.1	-5.7	-7.4	-7.8	-6.1	-4.7	-3.3	-3.2	-2.7	-2.4	-2.1	-1.5	-2.5	-4.7	-6	-6.5	-6.7	-6.7	-7.3	-7.8	-1.5	-4.5
Feb 27	-8	-8.8	-9.4	-10.2	-11	-11.7	-12	-12.3	-12.5	-12.4	-12.2	-11.7	-11.6	-10.1	-9.4	-9.8	-10.2	-10.7	-11	-11.6	-12	-12.2	-12.6	-13	-13.0	-8.0	-11.1
Feb 28	-13.5	-14.3	-15.6	-14.3	-13.6	-13.3	-13.6	-14.2	-13.5	-12.5	-11.6	-11	-10.3	-10	-9.4	-9.6	-9.6	-9.9	-10.2	-10.5	-11.4	-11.7	-11.3	-11.2	-15.6	-9.4	-11.9
Diurnal Maximum	7.6	7.1	6.9	6.4	5.9	5.4	5.2	5.2	5.5	5.7	5.5	5.2	5.3	5.5	6.2	6.1	7.3	8.1	7.4	7.8	8.1	8.5	8.3	8.1			
Diurnal Average	-10.6	-10.2	-10.5	-11.0	-11.2	-11.3	-11.5	-11.9	-12.4	-12.0	-11.2	-10.6	-10.1	-9.5	-8.9	-8.6	-8.3	-8.6	-9.2	-9.4	-9.6	-9.7	-9.8	-10.0			

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 - AQHI - Grimshaw Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

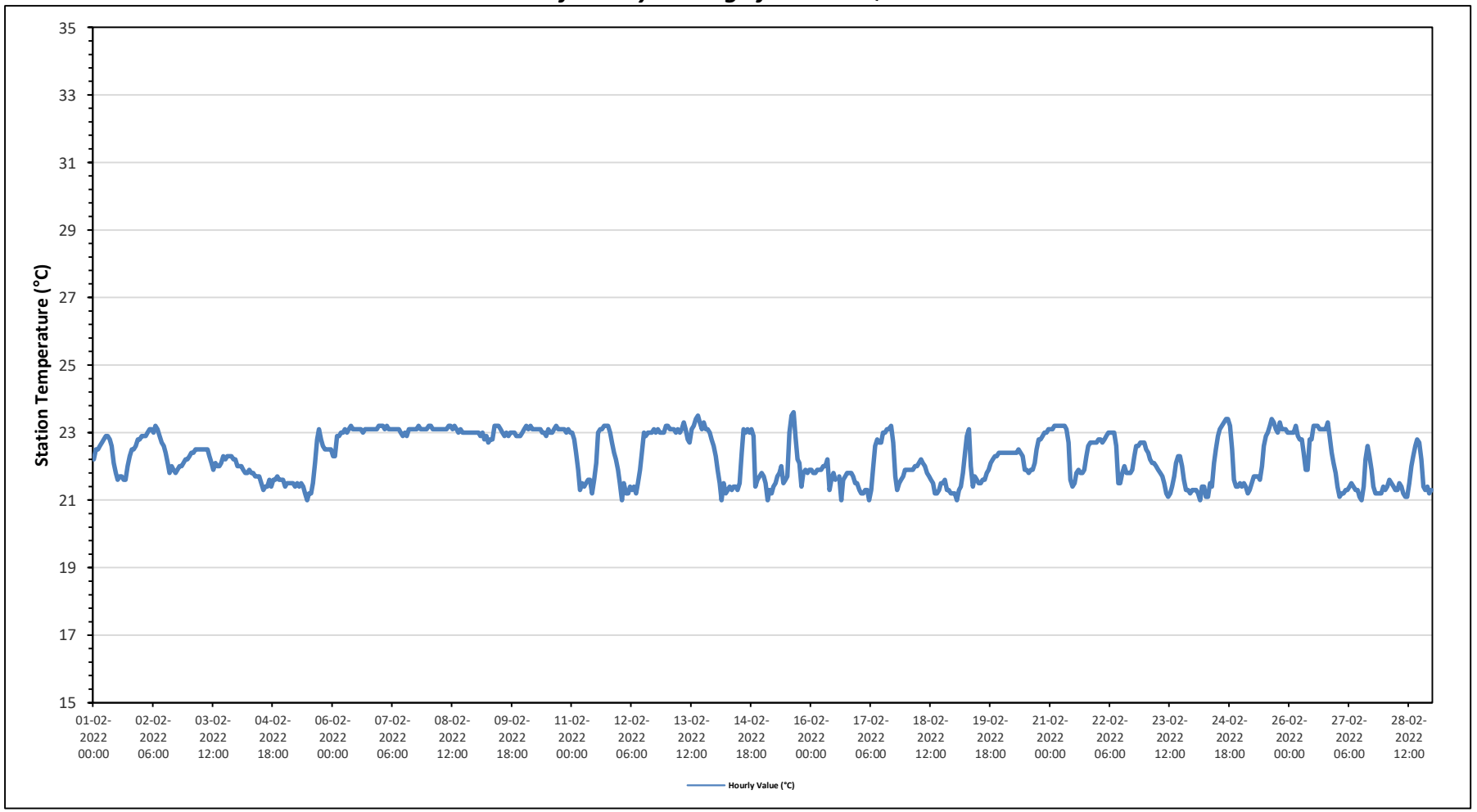
Maximum Hourly Value:	23.6	°C	on February 15 at hour 15	Hours in Service:	672
Maximum Daily Value:	23.1	°C	on February 7	Hours of Data:	672
Minimum Hourly Value:	21.0	°C	on February 5 at hour 11	Hours of Missing Data:	0
Minimum Daily Value:	21.4	°C	on February 27	Hours of Calibration:	0
Monthly Average:	22.3	°C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	22.2	22.5	22.5	22.6	22.7	22.8	22.9	22.9	22.8	22.6	22.1	21.8	21.6	21.7	21.7	21.6	21.6	22.0	22.3	22.5	22.5	22.6	22.8	22.8	21.6	22.9	22.3
Feb 2	22.9	22.9	22.9	23.0	23.1	23.1	23.0	23.2	23.1	22.9	22.7	22.6	22.4	22.1	21.8	22.0	21.9	21.8	21.9	22.0	22.0	22.1	22.2	22.2	21.8	23.2	22.5
Feb 3	22.3	22.4	22.4	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.3	22.1	21.9	22.1	22.0	22.0	22.1	22.3	22.2	22.3	22.3	22.3	22.2	22.2	21.9	22.5	22.3
Feb 4	22.0	22.0	22.0	21.9	21.8	21.8	21.9	21.8	21.8	21.7	21.7	21.7	21.5	21.3	21.4	21.4	21.6	21.4	21.6	21.6	21.7	21.6	21.6	21.6	21.3	22.0	21.7
Feb 5	21.4	21.5	21.5	21.5	21.5	21.4	21.5	21.4	21.5	21.4	21.2	**21.0**	21.2	21.2	21.5	22.1	22.8	23.1	22.8	22.6	22.5	22.5	22.5	22.5	**21.0**	23.1	21.8
Feb 6	22.3	22.3	22.9	22.9	23.0	23.0	23.1	23.0	23.1	23.2	23.1	23.1	23.1	23.1	23.1	23.0	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.2	22.3	23.2	23.0
Feb 7	23.2	23.2	23.1	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.0	22.9	23.0	22.9	23.1	23.1	23.1	23.1	23.1	23.2	23.1	23.1	23.1	23.1	22.9	23.2	**23.1**
Feb 8	23.2	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.2	23.2	23.1	23.2	23.1	23.0	23.1	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.2	23.1
Feb 9	23.0	23.0	22.9	23.0	22.8	22.9	22.7	22.8	22.8	23.2	23.2	23.2	23.1	23.0	22.9	23.0	22.9	23.0	23.0	23.0	22.9	22.9	22.9	23.0	22.7	23.2	23.0
Feb 10	23.1	23.2	23.1	23.2	23.1	23.1	23.1	23.1	23.1	23.0	23.0	22.9	23.1	23.0	23.0	23.1	23.2	23.1	23.1	23.1	23.1	23.0	23.1	23.0	22.9	23.2	23.1
Feb 11	23.0	22.8	22.4	21.9	21.3	21.5	21.4	21.5	21.6	21.6	21.2	21.6	22.1	23.0	23.1	23.1	23.2	23.2	23.2	23.0	22.7	22.4	22.2	21.9	21.2	23.2	22.3
Feb 12	21.5	**21.0**	21.5	21.2	21.2	21.4	21.3	21.4	21.2	21.5	21.9	22.4	23.0	22.9	23.0	23.0	23.0	23.1	23.0	23.1	23.0	23.0	23.0	23.2	**21.0**	23.2	22.2
Feb 13	23.2	23.1	23.1	23.1	23.0	23.1	23.0	23.1	23.3	23.1	22.8	22.7	23.1	23.2	23.4	23.5	23.3	23.1	23.3	23.1	23.1	23.0	22.8	22.6	22.6	23.5	23.1
Feb 14	22.3	21.9	21.5	**21.0**	21.5	21.2	21.3	21.4	21.3	21.4	21.4	21.3	21.5	22.4	23.1	23.0	23.1	23.0	23.1	22.9	21.4	21.6	21.7	21.8	**21.0**	23.1	21.9
Feb 15	21.7	21.5	**21.0**	21.3	21.2	21.4	21.5	21.7	21.8	22.0	21.5	21.6	21.7	23.0	23.5	**23.6**	22.9	22.2	22.1	21.4	21.8	21.9	21.8	21.9	**21.0**	**23.6**	21.9
Feb 16	21.9	21.8	21.8	21.9	21.9	21.9	22.0	22.0	22.2	21.3	21.6	21.8	21.6	21.3	21.7	**21.0**	21.6	21.7	21.8	21.8	21.8	21.7	21.5	21.5	**21.0**	22.2	21.7
Feb 17	21.3	21.2	21.2	21.3	21.3	**21.0**	21.3	22.0	22.6	22.8	22.7	22.7	23.0	23.0	23.1	23.1	23.2	22.7	21.7	21.3	21.5	21.6	21.7	21.9	**21.0**	23.2	22.1
Feb 18	21.9	21.9	21.9	21.9	22.0	22.0	22.1	22.2	22.1	22.0	21.8	21.7	21.6	21.5	21.2	21.2	21.3	21.5	21.5	21.6	21.3	21.3	21.2	21.2	21.2	22.2	21.7
Feb 19	21.2	**21.0**	21.3	21.4	21.8	22.4	22.9	23.1	22.0	21.4	21.7	21.6	21.5	21.5	21.6	21.6	21.8	21.9	22.1	22.2	22.3	22.3	22.4	22.4	**21.0**	23.1	21.9
Feb 20	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.5	22.4	22.3	21.9	21.9	21.8	21.9	21.9	22.1	22.5	22.8	22.8	22.9	23.0	23.0	23.1	21.8	23.1	22.4
Feb 21	23.1	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.1	22.7	21.6	21.4	21.5	21.8	21.9	21.8	21.8	21.9	22.3	22.6	22.7	22.7	22.7	22.7	21.4	23.2	22.5
Feb 22	22.8	22.8	22.7	22.8	22.9	23.0	23.0	23.0	23.0	22.6	21.5	21.5	21.8	22.0	21.8	21.8	21.8	21.9	22.3	22.6	22.6	22.7	22.7	22.7	21.5	23.0	22.4
Feb 23	22.5	22.4	22.2	22.1	22.1	22.0	21.9	21.8	21.7	21.5	21.2	21.1	21.2	21.4	21.7	22.1	22.3	22.3	22.0	21.6	21.3	21.3	21.2	21.3	21.1	22.5	21.8
Feb 24	21.3	21.3	21.2	**21.0**	21.4	21.4	21.1	21.1	21.5	21.4	22.1	22.5	22.9	23.1	23.2	23.3	23.4	23.4	23.2	22.5	21.6	21.4	21.4	21.5	**21.0**	23.4	22.0
Feb 25	21.4	21.5	21.4	21.2	21.3	21.5	21.7	21.7	21.7	21.6	22.0	22.6	22.9	23.0	23.2	23.4	23.3	23.1	23.0	23.3	23.1	23.1	23.1	23.0	21.2	23.4	22.4
Feb 26	23.0	23.0	23.0	23.2	22.9	22.8	22.8	22.4	21.9	21.9	22.8	22.8	23.2	23.2	23.2	23.1	23.1	23.1	23.1	23.3	22.9	22.4	22.1	21.8	21.8	23.3	22.8
Feb 27	21.4	21.1	21.2	21.2	21.3	21.3	21.4	21.5	21.4	21.3	21.3	21.1	**21.0**	21.4	22.2	22.6	22.3	21.9	21.4	21.2	21.2	21.2	21.2	21.4	**21.0**	22.6	21.4
Feb 28	21.3	21.4	21.6	21.5	21.4	21.3	21.3	21.5	21.4	21.2	21.1	21.1	21.5	22.0	22.3	22.6	22.8	22.7	22.2	21.4	21.3	21.4	21.2	21.3	21.1	22.8	21.6
Diurnal Maximum	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.2	23.2	23.2	23.2	23.2	23.5	23.6	23.4	23.4	23.3	23.3	23.1	23.1	23.1	23.2			
Diurnal Average	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.3	22.3	22.2	22.1	22.1	22.2	22.3	22.5	22.5	22.6	22.5	22.5	22.4	22.3	22.3	22.3	22.3			

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

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

Timeseries Chart of Hourly Average for ST - AQHI - Grimshaw Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

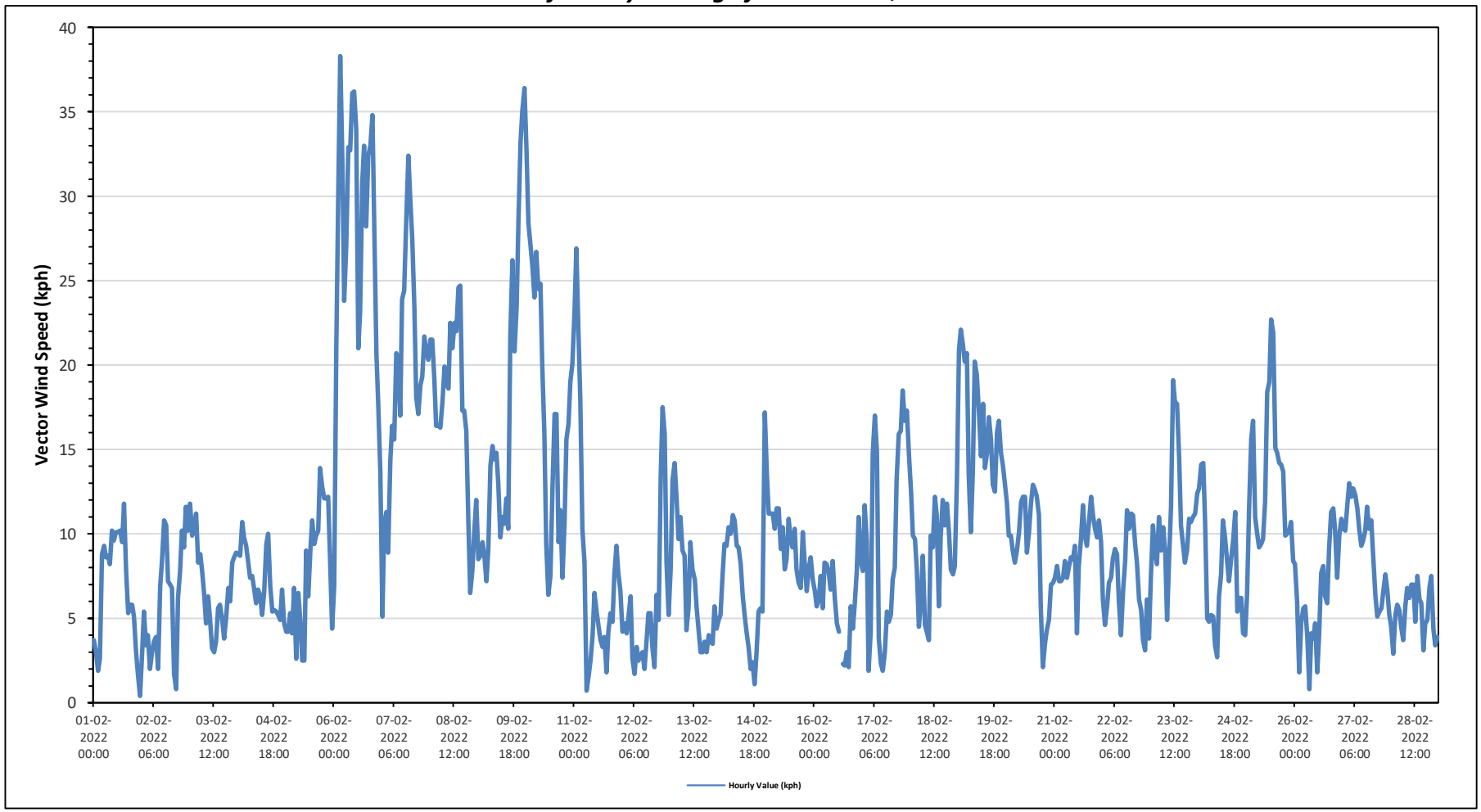
Maximum Hourly Value:	38.3	kph	on February 6 at hour 3	Hours in Service:	672
Maximum Daily Value:	27.9	kph	on February 6	Hours of Data:	672
Minimum Hourly Value:	0.4	kph	on February 1 at hour 23	Hours of Missing Data:	0
Minimum Daily Value:	5.3	kph	on February 28	Hours of Calibration:	0
Monthly Average:	10.4	kph		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Feb 1	3.7	3.0	1.9	2.6	8.8	9.3	8.6	8.7	8.2	10.2	9.6	10.1	10.1	10.2	9.5	11.8	7.8	5.3	5.8	5.8	5.1	3.0	1.7	**0.4**	**0.4**	11.8	6.7
Feb 2	2.9	5.4	3.4	4.0	2.0	3.0	3.6	3.9	2.0	6.9	8.4	10.8	10.5	7.2	7.0	6.8	1.7	0.8	6.2	7.8	10.2	9.2	11.6	10.2	0.8	11.6	6.1
Feb 3	11.8	9.9	10.5	11.2	8.3	8.8	7.8	6.4	4.7	6.3	5.0	3.2	3.0	3.6	5.6	5.8	5.0	3.8	4.9	6.8	6.0	8.3	8.6	8.9	3.0	11.8	6.8
Feb 4	8.8	8.7	10.7	9.8	9.3	8.3	7.4	7.5	6.8	5.9	6.7	6.4	5.2	6.6	9.4	10.0	6.9	5.4	5.5	5.4	5.2	4.9	6.7	4.7	4.7	10.7	7.2
Feb 5	4.2	4.2	5.3	4.1	6.8	2.6	6.5	4.8	2.5	2.5	9.0	6.3	9.0	10.8	9.4	9.9	10.2	13.9	12.8	12.1	12.1	12.2	8.6	4.4	2.5	13.9	7.7
Feb 6	6.9	21.0	30.7	**38.3**	32.2	23.8	27.1	32.9	32.7	36.1	36.2	34.0	21.0	23.2	30.8	33.0	28.2	32.4	33.0	34.8	28.1	20.7	17.7	13.7	6.9	**38.3**	**27.9**
Feb 7	5.1	10.6	11.3	8.9	14.3	16.4	15.6	20.7	20.4	17.0	23.9	24.4	28.6	32.4	29.6	27.4	23.4	18.1	17.1	18.8	19.3	21.7	20.8	20.3	5.1	32.4	19.4
Feb 8	21.5	21.5	19.2	16.4	16.4	16.3	17.8	19.9	18.9	18.6	22.5	21.0	22.5	22.0	24.6	24.7	17.3	17.3	16.1	10.7	6.5	7.8	10.0	12.0	6.5	24.7	17.6
Feb 9	8.5	8.7	9.5	8.7	7.2	9.1	14.0	15.2	14.4	14.8	13.0	9.8	11.0	10.6	12.1	10.3	21.7	26.2	20.8	23.4	28.5	33.2	35.1	36.4	7.2	36.4	16.8
Feb 10	32.6	28.4	27.1	25.9	24.0	26.7	24.5	24.8	19.9	15.9	9.4	6.4	7.5	12.8	17.1	17.1	9.5	11.4	7.4	10.7	15.6	16.5	19.0	20.1	6.4	32.6	17.9
Feb 11	23.2	26.9	21.9	18.0	10.3	8.3	0.7	1.6	2.5	4.0	6.5	5.4	4.5	3.7	3.3	3.9	1.8	4.2	5.3	4.8	7.6	9.3	7.7	6.6	0.7	26.9	8.0
Feb 12	4.2	4.7	4.1	5.1	6.3	2.6	1.7	3.3	2.5	2.8	3.0	2.0	3.7	5.3	5.3	3.3	2.1	6.4	4.9	13.5	17.5	15.9	8.3	5.2	1.7	17.5	5.6
Feb 13	8.0	13.2	14.2	12.2	9.7	11.0	9.0	8.7	4.3	5.6	9.5	7.9	7.3	5.6	4.2	3.0	3.0	3.6	3.0	4.0	3.6	3.5	5.7	4.4	3.0	14.2	6.8
Feb 14	4.9	5.2	7.6	9.4	9.3	10.4	10.0	11.1	10.8	9.3	9.2	8.2	6.3	5.2	4.1	3.3	2.0	2.4	1.1	3.1	5.4	5.6	5.4	17.2	1.1	17.2	6.9
Feb 15	13.5	11.2	11.2	11.2	10.3	11.5	11.5	9.1	10.4	7.9	8.5	10.9	9.6	9.2	10.3	7.9	7.1	6.8	10.1	8.1	6.6	8.0	8.6	7.3	6.6	13.5	9.5
Feb 16	6.6	5.7	6.1	7.5	5.6	8.3	8.2	7.7	6.7	8.4	6.2	4.7	4.2	3.1	2.3	2.2	3.0	2.1	5.7	4.4	5.8	7.8	11.0	8.4	2.1	11.0	5.9
Feb 17	7.8	11.7	9.6	1.9	4.2	14.8	17.0	14.8	3.8	2.3	1.9	3.0	5.4	4.8	5.2	7.3	8.0	13.2	15.9	16.1	18.5	16.7	17.3	14.7	1.9	18.5	9.8
Feb 18	12.5	9.9	9.7	7.9	4.5	5.9	8.7	4.6	4.2	3.7	9.9	9.2	12.2	11.1	5.7	9.8	12.0	10.5	11.8	10.0	7.9	7.6	8.1	13.2	3.7	13.2	8.8
Feb 19	20.9	22.1	21.2	20.2	20.7	13.6	10.1	13.8	20.2	19.4	17.2	14.6	17.7	13.9	14.8	16.9	15.6	12.9	12.5	16.0	16.7	14.8	14.1	13.0	10.1	22.1	16.4
Feb 20	11.8	9.9	9.9	9.0	8.3	9.0	10.1	11.9	12.2	12.2	8.9	10.1	11.7	12.9	12.6	12.2	11.1	5.7	2.1	3.5	4.3	4.9	7.0	7.1	2.1	12.9	9.1
Feb 21	7.4	8.1	7.2	7.2	7.4	8.4	7.4	8.1	8.6	8.5	9.3	4.1	8.1	9.6	11.7	9.9	9.3	10.7	12.2	11.0	10.3	9.8	10.8	9.5	4.1	12.2	8.9
Feb 22	6.1	4.6	5.7	7.1	7.4	8.5	9.1	8.8	6.0	4.0	6.6	8.4	11.4	10.3	11.2	11.1	9.4	8.3	6.1	5.5	3.7	3.1	6.1	3.8	3.1	11.4	7.2
Feb 23	7.4	10.5	8.9	8.2	11.0	9.0	10.4	8.9	4.9	8.7	11.6	19.1	17.8	17.7	14.5	10.5	9.3	8.3	9.0	10.9	10.7	11.0	11.2	12.4	4.9	19.1	10.9
Feb 24	12.7	14.1	14.2	10.7	5.0	4.8	5.2	5.1	3.4	2.7	6.3	7.6	10.8	9.8	8.4	7.2	8.6	9.6	11.3	5.4	6.2	6.2	4.1	4.0	2.7	14.2	7.6
Feb 25	6.4	11.6	15.6	16.7	11.0	10.1	9.2	9.4	9.7	11.9	18.4	19.0	22.7	21.9	15.1	14.8	14.2	14.1	13.7	9.9	10.0	10.2	10.7	8.4	6.4	22.7	13.1
Feb 26	8.2	6.0	1.8	4.8	5.6	5.7	3.9	0.8	4.1	3.8	4.7	1.8	4.0	7.7	8.1	6.3	5.9	9.1	11.3	11.5	10.2	7.4	9.9	10.9	0.8	11.5	6.4
Feb 27	10.3	10.2	11.8	13.0	12.2	12.7	12.3	11.5	10.3	9.3	9.6	10.2	11.6	10.3	10.8	8.5	6.3	5.1	5.4	5.6	6.6	7.6	6.7	5.2	5.1	13.0	9.3
Feb 28	4.5	2.9	5.2	5.8	5.5	4.5	3.7	5.7	6.8	6.2	7.0	7.0	4.8	7.5	6.1	5.9	3.1	4.7	4.9	6.8	7.5	4.4	3.4	3.9	2.9	7.5	**5.3**
Diurnal Maximum	33	28	31	38	32	27	27	33	33	36	36	34	29	32	31	33	28	32	33	35	29	33	35	36			
Diurnal Average	10.1	11.1	11.3	10.9	10.1	10.1	10.0	10.3	9.4	9.5	10.6	10.2	10.8	11.0	11.0	10.7	9.4	9.7	9.9	10.2	10.6	10.4	10.6	10.2			

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

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

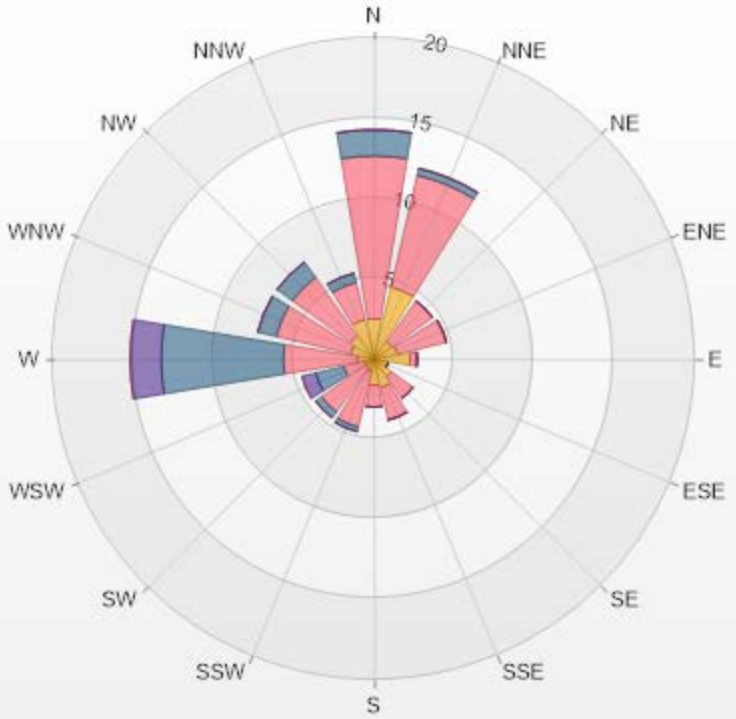
Timeseries Chart of Hourly Average for VWS - AQHI - Grimshaw Station



Wind: AQHI Grimshaw Monitor: WDS [KPH] Monthly: 02-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 1.64% Valid Data: 99.85%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	2.53	10.13	1.64	0	0	14.3
NNE	4.62	7.15	0.45	0	0	12.22
NE	1.34	3.13	0	0	0	4.47
ENE	1.49	3.13	0	0	0	4.62
E	2.24	0.45	0	0	0	2.69
ESE	0.89	0	0	0	0	0.89
SE	1.34	1.64	0	0	0	2.98
SSE	1.79	2.09	0	0	0	3.88
S	1.64	1.34	0	0	0	2.98
SSW	0.75	3.58	0.3	0	0	4.63
SW	0.6	3.43	0.45	0	0	4.48
WSW	0.6	1.34	1.79	0.89	0	4.62
W	1.04	4.62	7.6	1.94	0	15.2
WNW	1.49	4.77	1.19	0	0	7.45
NW	1.79	4.47	1.19	0	0	7.45
NNW	2.53	2.38	0.6	0	0	5.51
Summary	26.68	53.65	15.21	2.83	0	98.37

AQHI Grimshaw 01-02-2022 00:00 - 28-02-2022 23:00 Calm: 1.64% Calm Wind Avg Speed: 1.27(KPH)



% Icon Classes (KPH)	27	1.8-6.0	54	6.0-15.0	15	15.0-29.0	3	29.0-39.0	0	>39.0

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

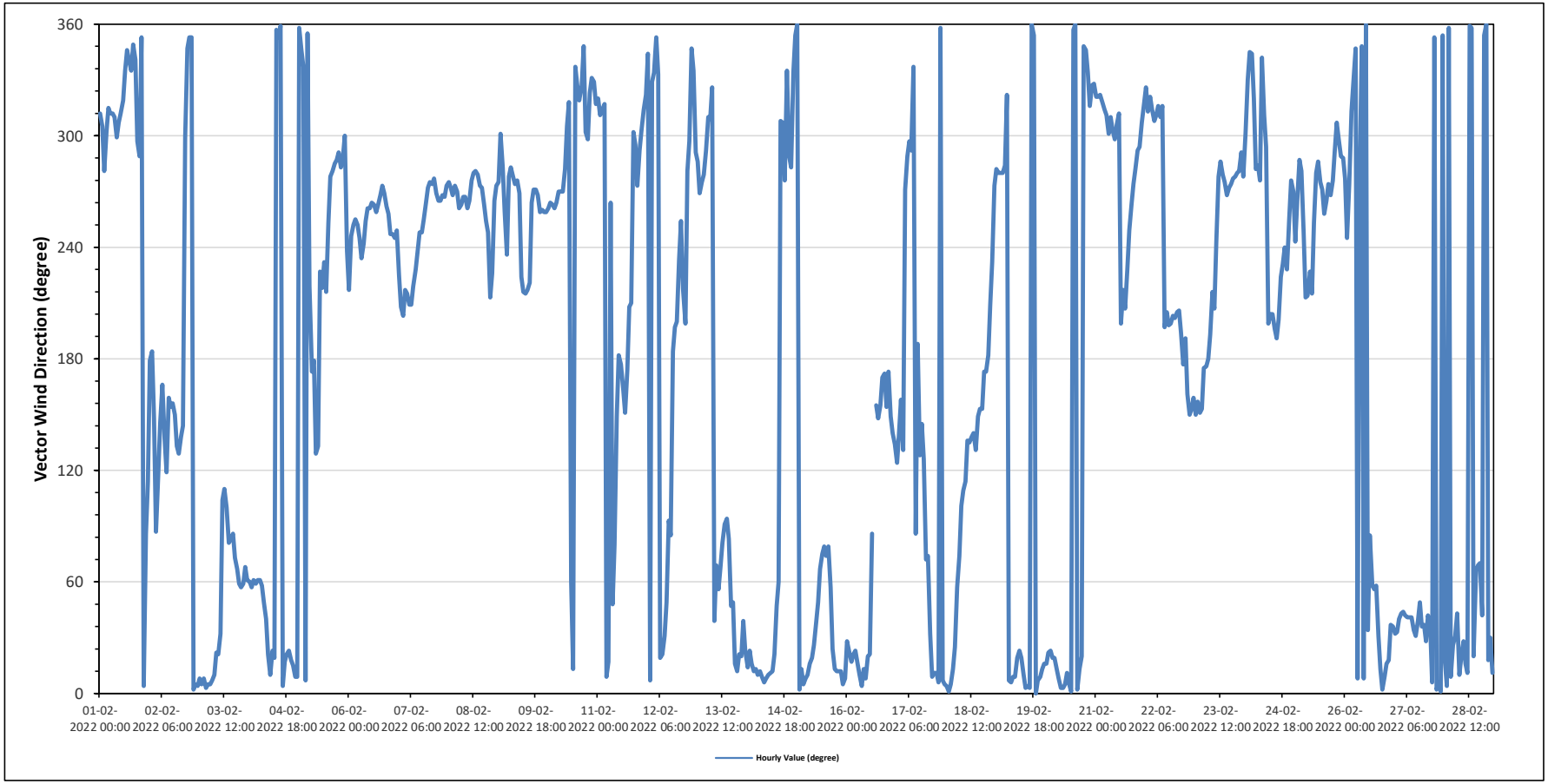
Monthly Average:	324 (NW)	degree	
Hours in Service:	672		
Hours of Data:	672		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

Day	Hourly Period Starting at (MST)																						Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Feb 1	NW	WNW	W	WNW	NW	NW	NW	NW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	WNW	WNW	N	N	E	ESE	323	NW
Feb 2	S	S	SE	E	ESE	SE	SSE	SE	ESE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	WNW	NNW	N	N	N	N	N	128	SE
Feb 3	N	N	N	N	N	N	N	N	NNE	NNE	NNE	ESE	ESE	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	47	NE
Feb 4	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NNE	N	NNE	NNE	N	N	N	N	NNE	NNE	NNE	NNE	NNE	N	N	28	NNE
Feb 5	N	NNW	NNW	N	N	SW	S	S	SE	SE	SW	SW	SW	SW	WSW	W	W	WNW	WNW	WNW	W	WNW	WNW	SW	267	W
Feb 6	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	W	W	W	W	WSW	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	254	WSW
Feb 7	SW	SSW	SSW	SW	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	W	W	W	246	WSW
Feb 8	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	WSW	WSW	SSW	SW	W	W	265	W
Feb 9	W	WNW	W	WSW	SW	W	W	W	W	W	W	SW	SW	SSW	SW	SW	W	W	W	W	WSW	WSW	WSW	WSW	259	WSW
Feb 10	W	W	W	W	W	W	W	W	W	WNW	NW	ENE	NNE	NNW	NW	NW	NW	NNW	WNW	WNW	NW	NNW	NNW	NW	305	WNW
Feb 11	NW	NW	NW	NW	N	NNE	W	NE	E	SSE	S	S	SSE	SSE	S	SSW	SSW	WNW	WNW	W	WNW	WNW	NW	NW	282	W
Feb 12	NNW	N	NNW	NNW	N	NNW	NNE	NNE	NNE	NE	E	E	S	SSW	SSW	SW	WSW	SW	SSW	W	WNW	NNW	NNW	WNW	324	NW
Feb 13	WNW	W	W	W	WNW	NW	NW	NW	NE	ENE	NE	ENE	E	E	E	E	NE	NE	NNE	NNE	NNE	NNE	NE	NNE	18	NNE
Feb 14	NNE	NNE	NNE	NNE	NNE	N	NNE	N	N	N	N	NNE	NNE	NNE	NE	ENE	NW	NW	W	NNW	WNW	W	NNW	N	358	N
Feb 15	N	N	NNE	N	N	N	NNE	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NNE	NNE	NNE	NNE	NNE	N	N	28	NNE
Feb 16	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNE	N	NNE	NNE	E	ESE	SSE	SE	SSE	SSE	S	SSE	S	SSE	SE	SE	77	ENE
Feb 17	ESE	SE	SSE	SE	W	WNW	WNW	WNW	NNW	E	S	SE	SE	SE	ENE	ENE	NNE	N	NNE	NNE	N	N	N	N	46	NE
Feb 18	N	N	N	NNE	NNE	ENE	ENE	E	ESE	ESE	SE	SE	SE	SE	SE	SSE	SSE	SSE	S	S	S	SSW	SW	W	125	SE
Feb 19	W	W	W	W	WNW	NW	N	N	N	N	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	NNE	NNE	351	N
Feb 20	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	NNE	N	N	N	N	N	NNE	NNE	NNW	NNW	NNW	NW	NW	NNW	1	N
Feb 21	NW	NW	NW	NW	NW	NW	WNW	NW	WNW	WNW	NW	NW	SSW	SW	SSW	SW	WSW	W	W	W	WNW	WNW	NW	NW	290	WNW
Feb 22	NW	NW	NW	NW	NW	NW	NW	NW	NW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSE	SSE	SSE	SSE	226	SW
Feb 23	SSE	SSE	SSE	SSE	S	S	S	S	SW	SSW	WSW	W	WNW	W	W	W	W	W	W	W	W	W	WNW	W	239	WSW
Feb 24	WNW	NNW	NNW	NNW	NW	W	WNW	W	NNW	NW	WNW	SSW	SSW	SSW	SSW	S	SSW	SW	SW	WSW	SW	WSW	W	W	264	W
Feb 25	WSW	W	WNW	W	WSW	SSW	SSW	SW	SSW	WSW	W	WNW	W	W	WSW	W	W	W	W	WNW	NW	WNW	WNW	WNW	266	W
Feb 26	W	WSW	W	NW	NNW	NNW	N	W	NNW	N	N	NE	E	ENE	NE	ENE	NNE	NNE	N	N	NNE	NNE	NE	NE	5	N
Feb 27	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NE	NE	NE	NE	NNE	NE	NE	N	N	N	N	N	N	29	NNE
Feb 28	NNE	N	N	N	NNE	NNE	NE	N	NNE	NNE	NNE	NNE	N	N	NNE	ENE	ENE	ENE	NE	N	N	NNE	NNE	NNE	22	NNE

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 - Grimshaw Station



peace river area monitoring program

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	38.3	kph	on February 6 at hour 3	Hours in Service:	672
Maximum Daily Value:	27.9	kph	on February 6	Hours of Data:	672
Minimum Hourly Value:	0.4	kph	on February 1 at hour 23	Hours of Missing Data:	0
Minimum Daily Value:	5.3	kph	on February 28	Hours of Calibration:	0
Monthly Average:	10.4	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 324 (NW) degree

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 1	3.7	3.0	1.9	2.6	8.8	9.3	8.6	8.7	8.2	10.2	9.6	10.1	10.1	10.2	9.5	11.8	7.8	5.3	5.8	5.8	5.1	3.0	1.7	**0.4**	**0.4**	11.8	6.7
	NW	WNW	W	WNW	NW	NW	NW	NW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	WNW	WNW	N	N	E	ESE			
Feb 2	2.9	5.4	3.4	4.0	2.0	3.0	3.6	3.9	2.0	6.9	8.4	10.8	10.5	7.2	7.0	6.8	1.7	0.8	6.2	7.8	10.2	9.2	11.6	10.2	0.8	11.6	6.1
	S	S	SE	E	ESE	SE	SSE	SE	ESE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	WNW	NNW	N	N	N	N	N			
Feb 3	11.8	9.9	10.5	11.2	8.3	8.8	7.8	6.4	4.7	6.3	5.0	3.2	3.0	3.6	5.6	5.8	5.0	3.8	4.9	6.8	6.0	8.3	8.6	8.9	3.0	11.8	6.8
	N	N	N	N	N	N	N	N	NNE	NNE	NNE	ESE	ESE	E	E	E	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE			
Feb 4	8.8	8.7	10.7	9.8	9.3	8.3	7.4	7.5	6.8	5.9	6.7	6.4	5.2	6.6	9.4	10.0	6.9	5.4	5.5	5.4	5.2	4.9	6.7	4.7	4.7	10.7	7.2
	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NNE	N	NNE	NNE	N	N	N	N	NNE	NNE	NNE	NNE	NNE	N	N			
Feb 5	4.2	4.2	5.3	4.1	6.8	2.6	6.5	4.8	2.5	2.5	9.0	6.3	9.0	10.8	9.4	9.9	10.2	13.9	12.8	12.1	12.1	12.2	8.6	4.4	2.5	13.9	7.7
	N	NNW	NNW	N	N	SW	S	S	SE	SE	SW	SW	SW	SW	WSW	W	W	WNW	WNW	WNW	W	WNW	WNW	SW			
Feb 6	6.9	21.0	30.7	**38.3**	32.2	23.8	27.1	32.9	32.7	36.1	36.2	34.0	21.0	23.2	30.8	33.0	28.2	32.4	33.0	34.8	28.1	20.7	17.7	13.7	6.9	**38.3**	**27.9**
	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	W	W	W	W	WSW	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW			
Feb 7	5.1	10.6	11.3	8.9	14.3	16.4	15.6	20.7	20.4	17.0	23.9	24.4	28.6	32.4	29.6	27.4	23.4	18.1	17.1	18.8	19.3	21.7	20.8	20.3	5.1	32.4	19.4
	SW	SSW	SSW	SW	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	W	W	W			
Feb 8	21.5	21.5	19.2	16.4	16.4	16.3	17.8	19.9	18.9	18.6	22.5	21.0	22.5	22.0	24.6	24.7	17.3	17.3	16.1	10.7	6.5	7.8	10.0	12.0	6.5	24.7	17.6
	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	WSW	WSW	SSW	SW	W	W			
Feb 9	8.5	8.7	9.5	8.7	7.2	9.1	14.0	15.2	14.4	14.8	13.0	9.8	11.0	10.6	12.1	10.3	21.7	26.2	20.8	23.4	28.5	33.2	35.1	36.4	7.2	36.4	16.8
	W	WNW	W	WSW	SW	W	W	W	W	W	W	SW	SW	SSW	SW	SW	W	W	W	W	WSW	WSW	WSW	WSW			
Feb 10	32.6	28.4	27.1	25.9	24.0	26.7	24.5	24.8	19.9	15.9	9.4	6.4	7.5	12.8	17.1	17.1	9.5	11.4	7.4	10.7	15.6	16.5	19.0	20.1	6.4	32.6	17.9
	W	W	W	W	W	W	W	W	W	WNW	NW	ENE	NNE	NNW	NW	NW	NW	NNW	WNW	WNW	NW	NNW	NNW	NW			
Feb 11	23.2	26.9	21.9	18.0	10.3	8.3	0.7	1.6	2.5	4.0	6.5	5.4	4.5	3.7	3.3	3.9	1.8	4.2	5.3	4.8	7.6	9.3	7.7	6.6	0.7	26.9	8.0
	NW	NW	NW	NW	N	NNE	W	NE	E	SSE	S	S	SSE	SSE	S	SSW	SSW	WNW	WNW	W	WNW	WNW	NW	NW			
Feb 12	4.2	4.7	4.1	5.1	6.3	2.6	1.7	3.3	2.5	2.8	3.0	2.0	3.7	5.3	5.3	3.3	2.1	6.4	4.9	13.5	17.5	15.9	8.3	5.2	1.7	17.5	5.6
	NNW	N	NNW	NNW	N	NNW	NNE	NNE	NNE	NE	E	E	S	SSW	SSW	SW	WSW	SW	SSW	W	WNW	NNW	NNW	WNW			
Feb 13	8.0	13.2	14.2	12.2	9.7	11.0	9.0	8.7	4.3	5.6	9.5	7.9	7.3	5.6	4.2	3.0	3.0	3.6	3.0	4.0	3.6	3.5	5.7	4.4	3.0	14.2	6.8
	WNW	W	W	W	WNW	NW	NW	NW	NE	ENE	NE	ENE	E	E	E	E	NE	NE	NNE	NNE	NNE	NNE	NE	NNE			
Feb 14	4.9	5.2	7.6	9.4	9.3	10.4	10.0	11.1	10.8	9.3	9.2	8.2	6.3	5.2	4.1	3.3	2.0	2.4	1.1	3.1	5.4	5.6	5.4	17.2	1.1	17.2	6.9
	NNE	NNE	NNE	NNE	NNE	N	NNE	N	N	N	N	NNE	NNE	NNE	NE	ENE	NW	NW	W	NNW	WNW	W	NNW	N			
Feb 15	13.5	11.2	11.2	11.2	10.3	11.5	11.5	9.1	10.4	7.9	8.5	10.9	9.6	9.2	10.3	7.9	7.1	6.8	10.1	8.1	6.6	8.0	8.6	7.3	6.6	13.5	9.5
	N	N	NNE	N	N	N	NNE	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NNE	NNE	NNE	NNE	NNE	N	N			
Feb 16	6.6	5.7	6.1	7.5	5.6	8.3	8.2	7.7	6.7	8.4	6.2	4.7	4.2	3.1	2.3	2.2	3.0	2.1	5.7	4.4	5.8	7.8	11.0	8.4	2.1	11.0	5.9
	NNE	NNE	NNE	NNE	NNE	NNE	N	N	NNE	N	NNE	NNE	E	ESE	SSE	SE	SSE	SSE	S	SSE	S	SSE	SE	SE			
Feb 17	7.8	11.7	9.6	1.9	4.2	14.8	17.0	14.8	3.8	2.3	1.9	3.0	5.4	4.8	5.2	7.3	8.0	13.2	15.9	16.1	18.5	16.7	17.3	14.7	1.9	18.5	9.8
	ESE	SE	SSE	SE	W	WNW	WNW	WNW	NNW	E	S	SE	SE	SE	ENE	ENE	NNE	N	NNE	NNE	N	N	N	N			
Feb 18	12.5	9.9	9.7	7.9	4.5	5.9	8.7	4.6	4.2	3.7	9.9	9.2	12.2	11.1	5.7	9.8	12.0	10.5	11.8	10.0	7.9	7.6	8.1	13.2	3.7	13.2	8.8
	N	N	N	NNE	NNE	ENE	ENE	E	ESE	ESE	SE	SE	SE	SE	SE	SSE	SSE	SSE	S	S	S	SSW	SW	W			
Feb 19	20.9	22.1	21.2	20.2	20.7	13.6	10.1	13.8	20.2	19.4	17.2	14.6	17.7	13.9	14.8	16.9	15.6	12.9	12.5	16.0	16.7	14.8	14.1	13.0	10.1	22.1	16.4
	W	W	W	W	WNW	NW	N	N	N	N	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	NNE	NNE			
Feb 20	11.8	9.9	9.9	9.0	8.3	9.0	10.1	11.9	12.2	12.2	8.9	10.1	11.7	12.9	12.6	12.2	11.1	5.7	2.1	3.5	4.3	4.9	7.0	7.1	2.1	12.9	9.1
	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	NNE	N	N	N	N	N	NNE	NNE	NNW	NNW	NNW	NW	NW	NNW			

peace river area monitoring program
pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - February 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	38.3	kph	on February 6 at hour 3	Hours in Service:	672
Maximum Daily Value:	27.9	kph	on February 6	Hours of Data:	672
Minimum Hourly Value:	0.4	kph	on February 1 at hour 23	Hours of Missing Data:	0
Minimum Daily Value:	5.3	kph	on February 28	Hours of Calibration:	0
Monthly Average:	10.4	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 324 (NW) degree

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Feb 21	7.4	8.1	7.2	7.2	7.4	8.4	7.4	8.1	8.6	8.5	9.3	4.1	8.1	9.6	11.7	9.9	9.3	10.7	12.2	11.0	10.3	9.8	10.8	9.5	4.1	12.2	8.9
	NW	NW	NW	NW	NW	NW	WNW	NW	WNW	WNW	NW	NW	SSW	SW	SSW	SW	WSW	W	W	W	WNW	WNW	NW	NW			
Feb 22	6.1	4.6	5.7	7.1	7.4	8.5	9.1	8.8	6.0	4.0	6.6	8.4	11.4	10.3	11.2	11.1	9.4	8.3	6.1	5.5	3.7	3.1	6.1	3.8	3.1	11.4	7.2
	NW	NW	NW	NW	NW	NW	NW	NW	NW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	SSE	SSE	SSE	SSE			
Feb 23	7.4	10.5	8.9	8.2	11.0	9.0	10.4	8.9	4.9	8.7	11.6	19.1	17.8	17.7	14.5	10.5	9.3	8.3	9.0	10.9	10.7	11.0	11.2	12.4	4.9	19.1	10.9
	SSE	SSE	SSE	SSE	S	S	S	S	SW	SSW	WSW	W	WNW	W	W	W	W	W	W	W	W	W	WNW	W			
Feb 24	12.7	14.1	14.2	10.7	5.0	4.8	5.2	5.1	3.4	2.7	6.3	7.6	10.8	9.8	8.4	7.2	8.6	9.6	11.3	5.4	6.2	6.2	4.1	4.0	2.7	14.2	7.6
	WNW	NNW	NNW	NNW	NW	W	WNW	W	NNW	NW	WNW	SSW	SSW	SSW	SSW	S	SSW	SW	SW	WSW	SW	WSW	W	W			
Feb 25	6.4	11.6	15.6	16.7	11.0	10.1	9.2	9.4	9.7	11.9	18.4	19.0	22.7	21.9	15.1	14.8	14.2	14.1	13.7	9.9	10.0	10.2	10.7	8.4	6.4	22.7	13.1
	WSW	W	WNW	W	WSW	SSW	SSW	SW	SSW	WSW	W	WNW	W	W	WSW	W	W	W	W	WNW	NW	WNW	WNW	WNW			
Feb 26	8.2	6.0	1.8	4.8	5.6	5.7	3.9	0.8	4.1	3.8	4.7	1.8	4.0	7.7	8.1	6.3	5.9	9.1	11.3	11.5	10.2	7.4	9.9	10.9	0.8	11.5	6.4
	W	WSW	W	NW	NNW	NNW	N	W	NNW	N	N	NE	E	ENE	NE	ENE	NNE	NNE	N	N	NNE	NNE	NE	NE			
Feb 27	10.3	10.2	11.8	13.0	12.2	12.7	12.3	11.5	10.3	9.3	9.6	10.2	11.6	10.3	10.8	8.5	6.3	5.1	5.4	5.6	6.6	7.6	6.7	5.2	5.1	13.0	9.3
	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NE	NE	NE	NE	NNE	NE	NE	N	N	N	N	N	N			
Feb 28	4.5	2.9	5.2	5.8	5.5	4.5	3.7	5.7	6.8	6.2	7.0	7.0	4.8	7.5	6.1	5.9	3.1	4.7	4.9	6.8	7.5	4.4	3.4	3.9	2.9	7.5	**5.3**
	NNE	N	N	N	NNE	NNE	NE	N	NNE	NNE	NNE	NNE	N	N	NNE	ENE	ENE	ENE	NE	N	N	NNE	NNE	NNE			

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, 228 of 228, ends the February 2022 Monthly Ambient Air Quality Monitoring Report.

Peace River Area Monitoring Program

FEBRUARY 2022

Ambient Air Monitoring Calibration Report

- 842b STATION-

CAL-PRAMP-202202-01561

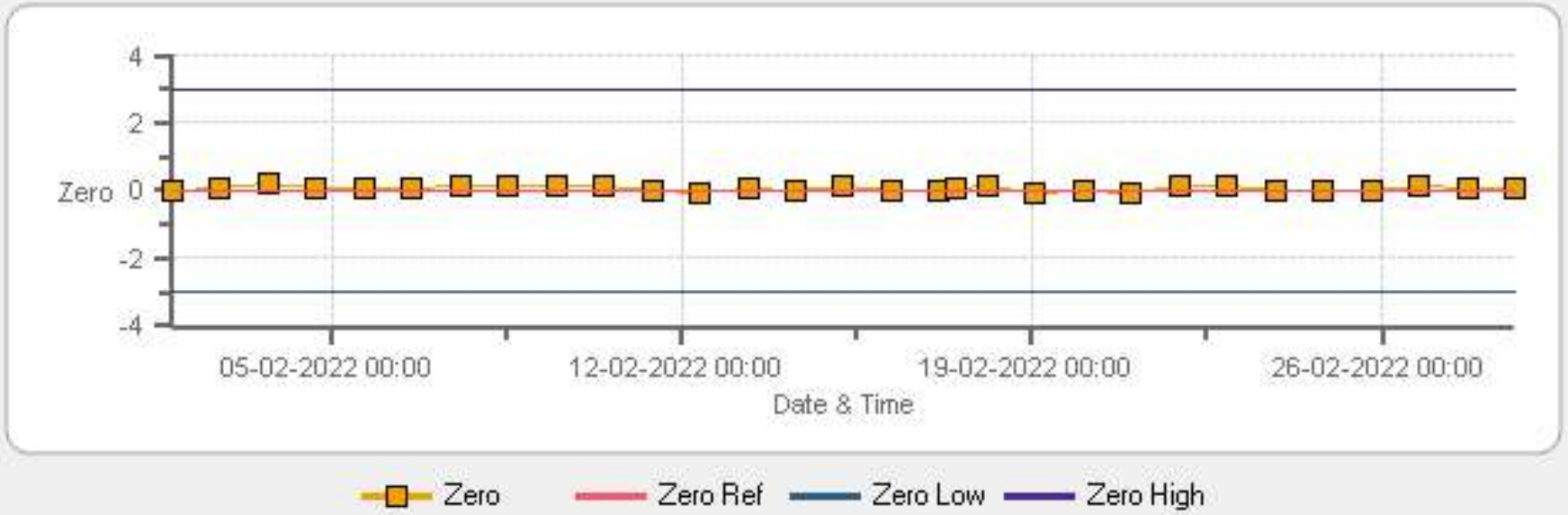
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

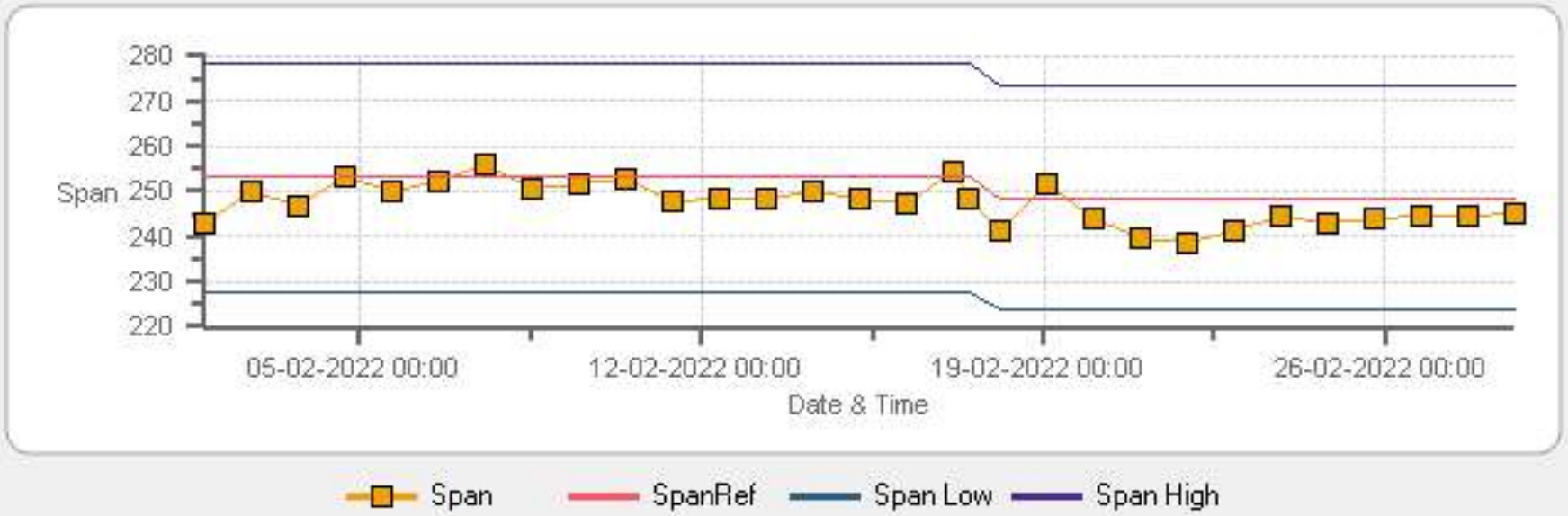
March 25, 2022

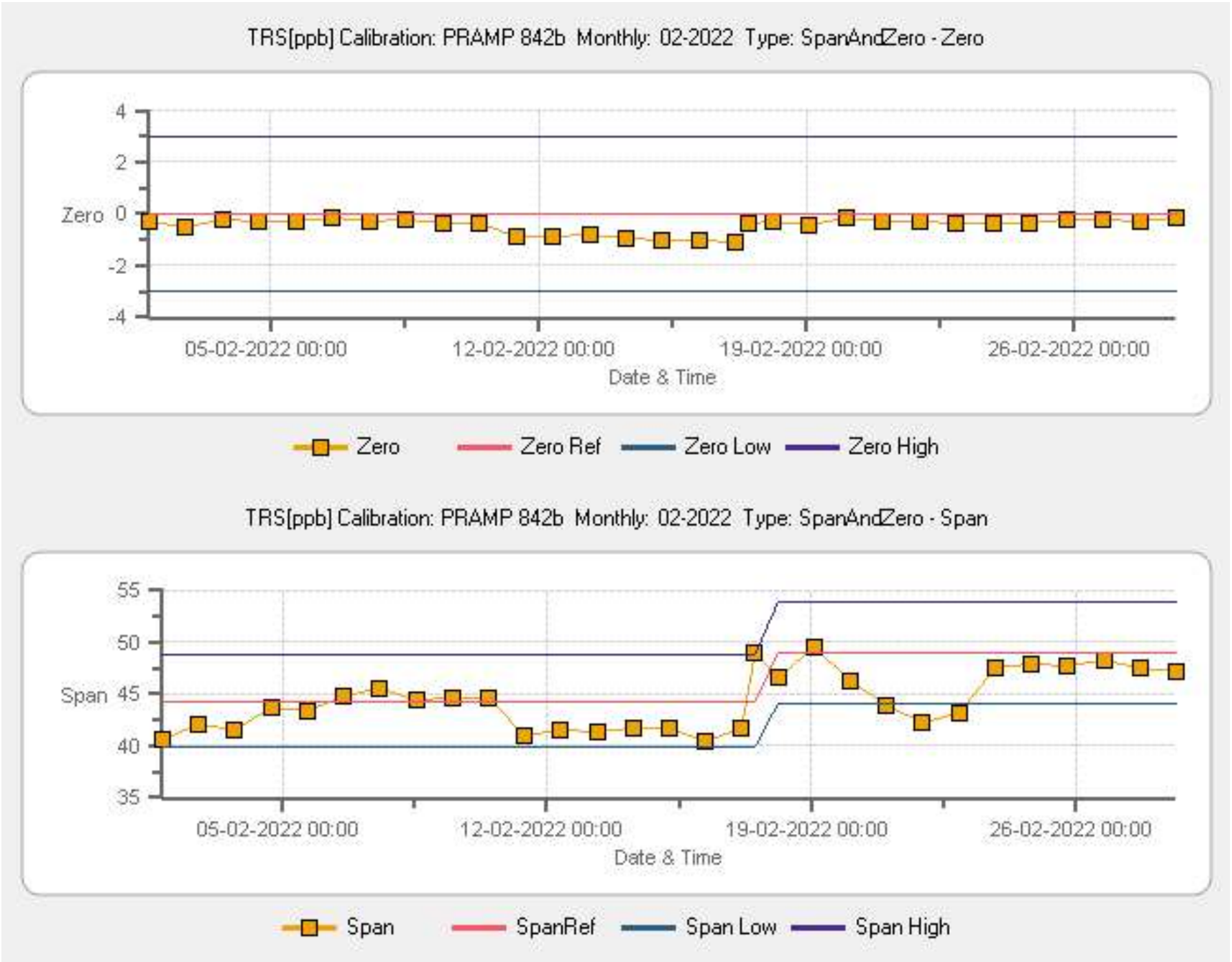
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

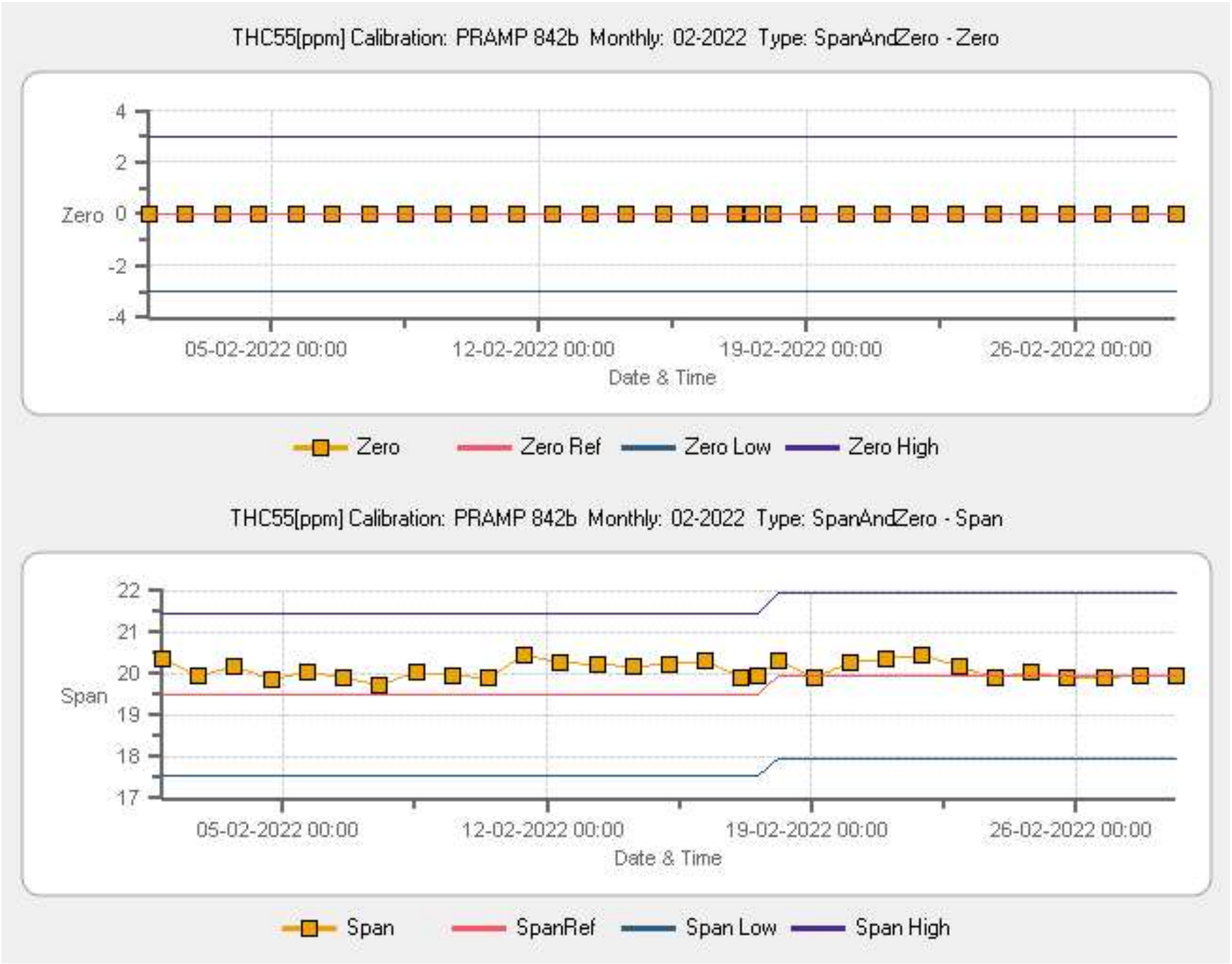
SO2[ppb] Calibration: PRAMP 842b Monthly: 02-2022 Type: SpanAndZero - Zero

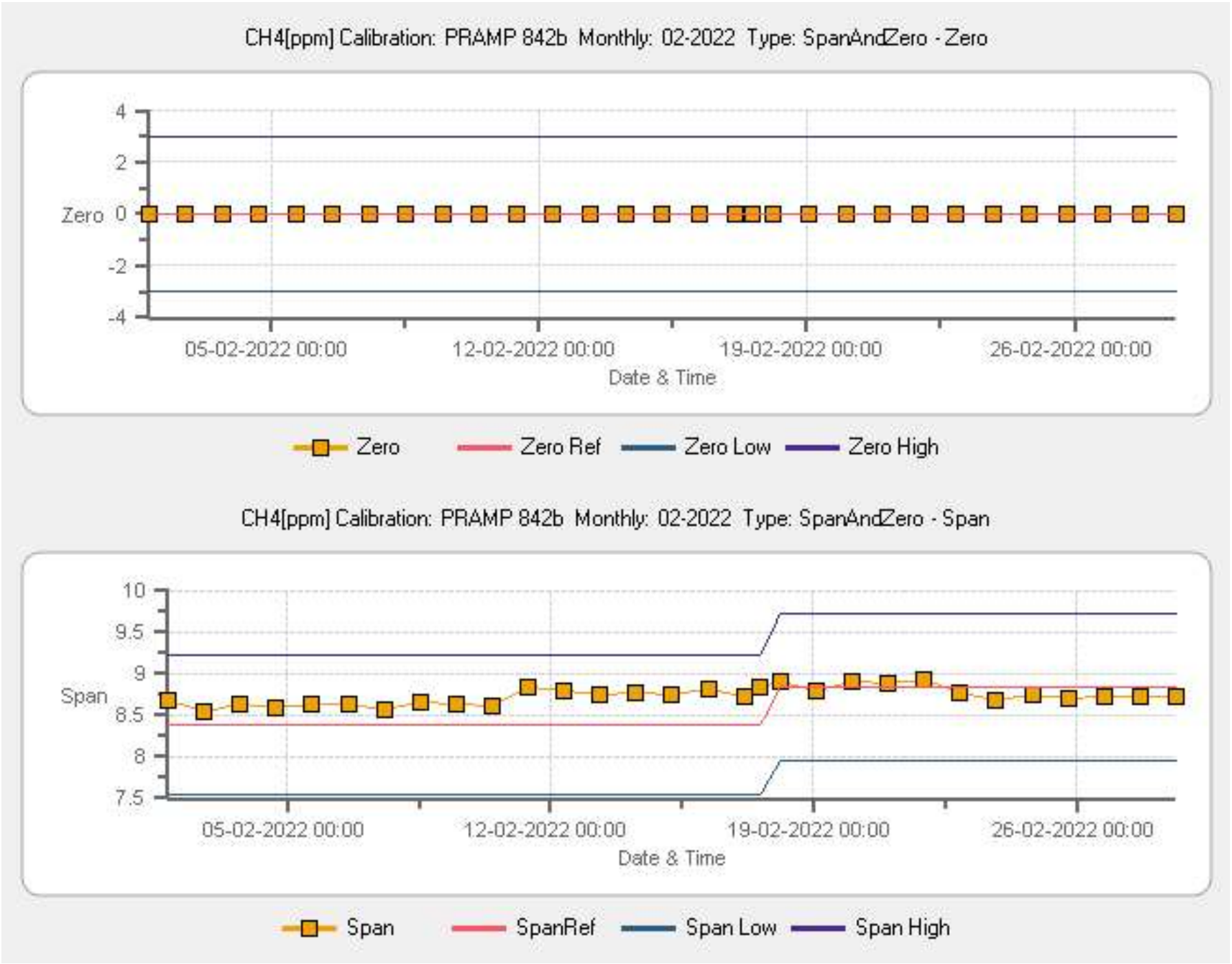


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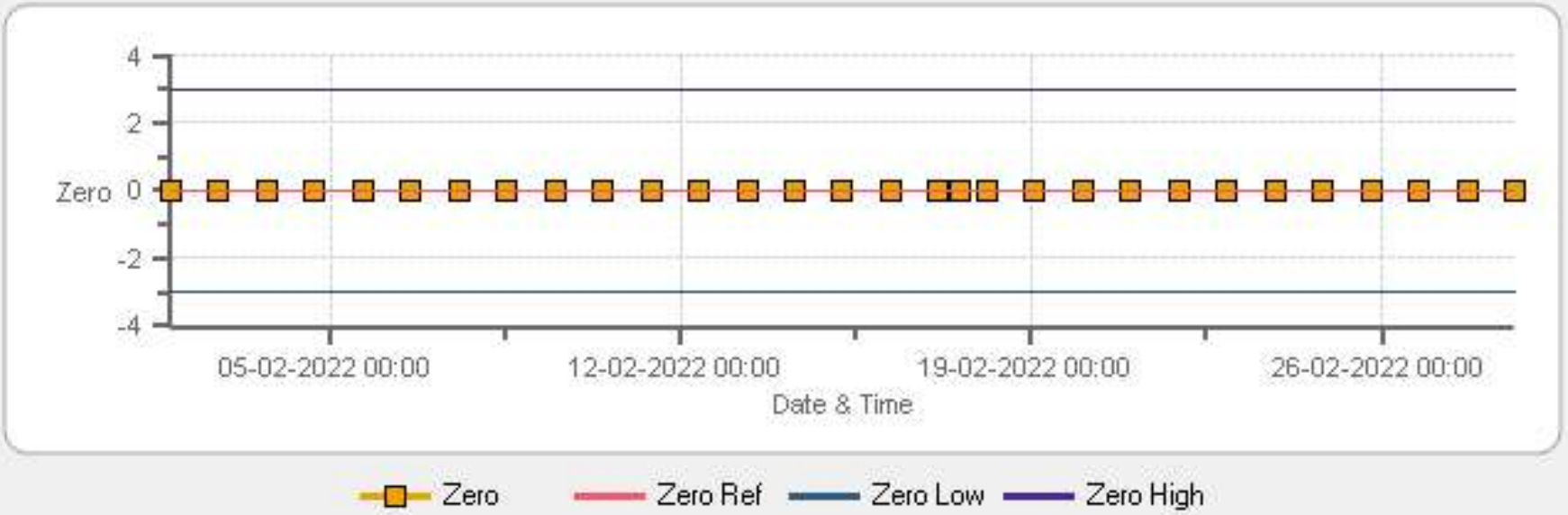



TRS[ppb] Calibration: PRAMP 842b Monthly: 02-2022 Type: SpanAndZero - Zero
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-2
-4
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12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: PRAMP 842b Monthly: 02-2022 Type: SpanAndZero - Span
55
50
Span 45
40
35
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

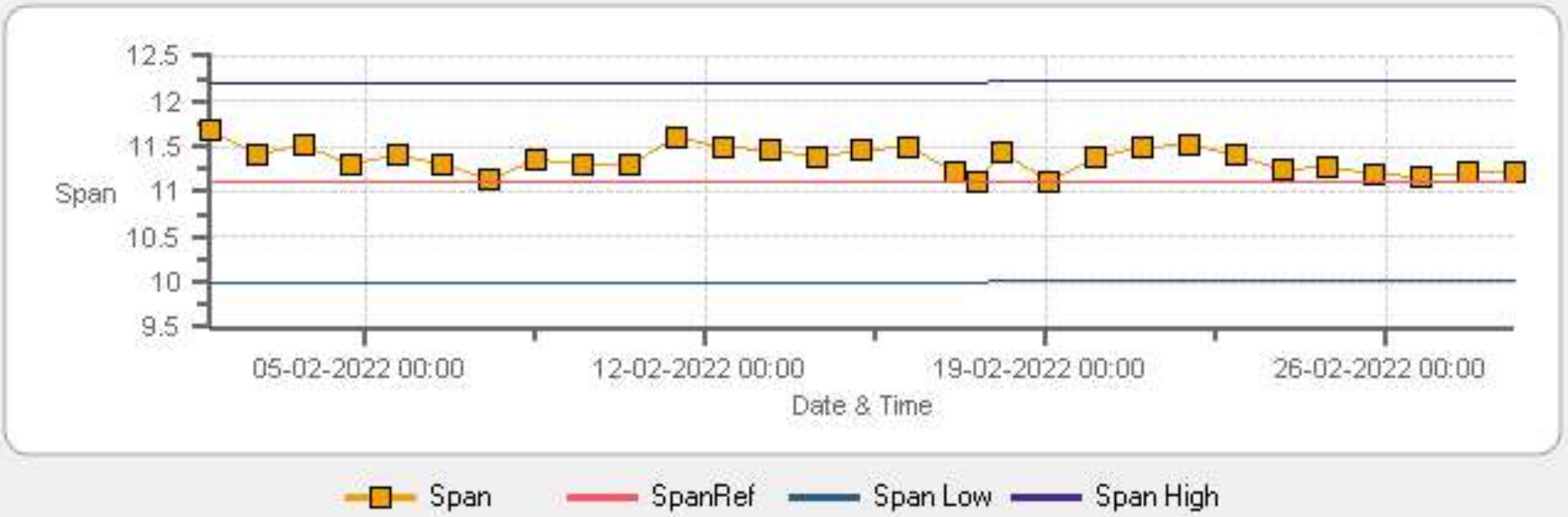

THC55[ppm] Calibration: PRAMP 842b Monthly: 02-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: PRAMP 842b Monthly: 02-2022 Type: SpanAndZero - Span
22
21
Span 20
19
18
17
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


CH4[ppm] Calibration: PRAMP 842b Monthly: 02-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: PRAMP 842b Monthly: 02-2022 Type: SpanAndZero - Span
10
9.5
9
Span
8.5
8
7.5
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

NMHC[ppm] Calibration: PRAMP 842b Monthly: 02-2022 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 842b Monthly: 02-2022 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	17-Feb-2022	PREVIOUS CALIBRATION DATE:	20-Jan-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	21.2
LOCATION:	842b	BAROMETRIC (mBar):	930
PURPOSE	Routine	START TIME (MST):	08:00
PERFORMED BY:	Limin Li	END TIME (MST):	11:31

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	421
INITIAL		FINAL	
BKG/OFFSET	8.5	BKG/OFFSET	8.4
COEF/SLOPE	1.125	COEF/SLOPE	1.108
Expected (reference) Value	253	Expected (reference) Value	248.4

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	20-Sep-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0000647	HIGH ID	n/a
CONC (ppm):	51.6	EXPIRY DATE	n/a
CYLINDER (psi):	900	LOW ID	n/a
EXPIRY DATE	24-Feb-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		
6000		6000	0.00	0	0		
5956	44.20	6000	380.12	386.4	380	0.984	1.000
5979	20.90	6000	179.74	n/a	181.1	n/a	0.992
5990	10.50	6000	90.30	n/a	90.4	n/a	0.999

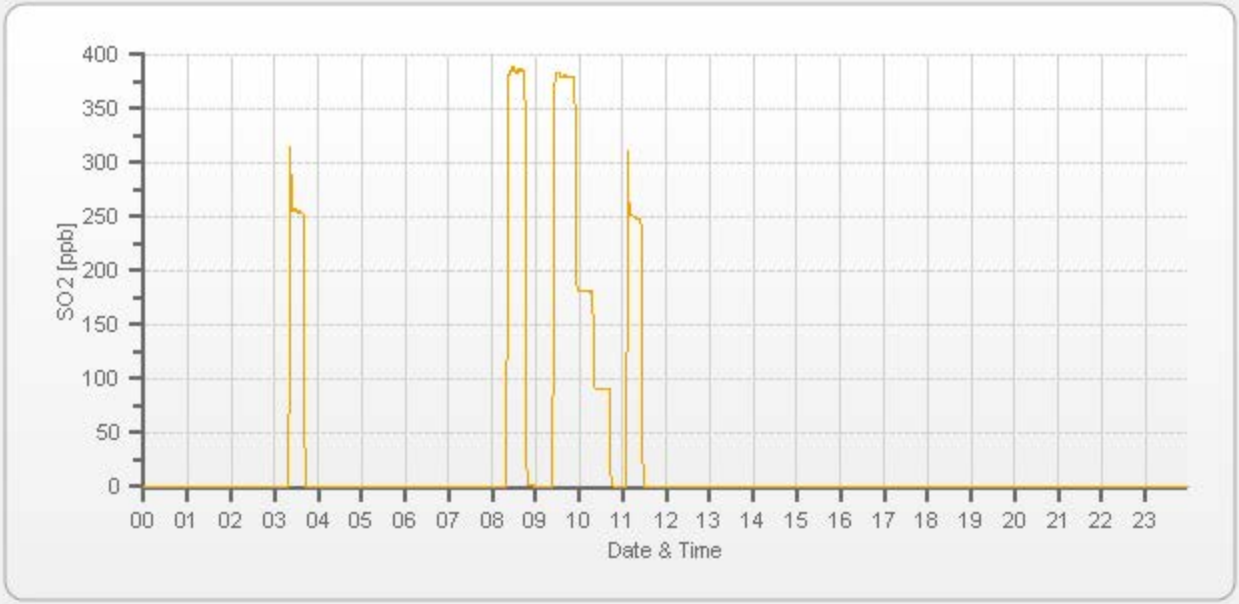
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

SO2[ppb] Station: PRAMP 842b Daily: 17-02-2022 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	17-Feb-2022	PREVIOUS CALIBRATION DATE:	20-Jan-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	21.1
LOCATION:	842b	BAROMETRIC (mBar):	930
PURPOSE	Routine	START TIME (MST):	08:00
PERFORMED BY:	Limin Li	END TIME (MST):	12:06

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	371
INITIAL		FINAL	
BKG/OFFSET	12.9	BKG/OFFSET	13.8
COEF/SLOPE	0.832	COEF/SLOPE	0.946
Expected (reference) Value	44.34	Expected (reference) Value	48.97

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	21-Sep-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1750	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	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:	08:27	SO2 Conc (ppb)	380
END TIME:	08:47	Analyzer Response (ppb)	0.1

CALIBRATION:

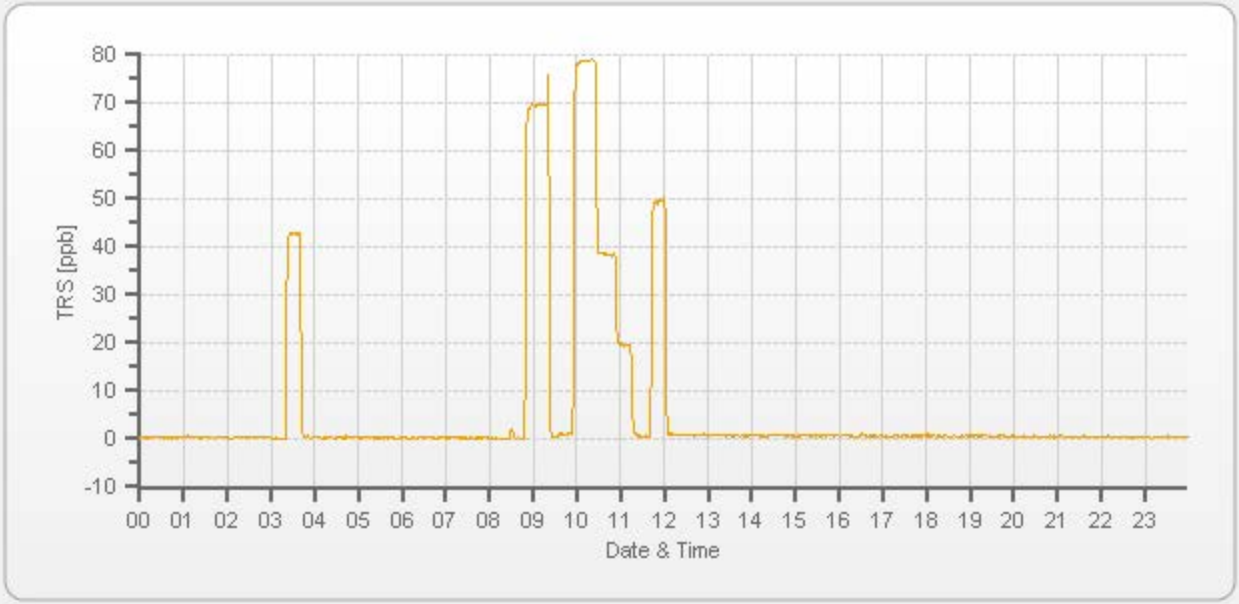
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	-0.9	0		
7443	57.35	7500	78.00	68.7	78	**1.121**	1.000
7472	27.94	7500	38.00	n/a	37.66	n/a	1.009
7486	13.97	7500	19.00	n/a	18.64	n/a	1.019

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.2%

COMMENTS:

TRS Converter CDNOVA CDN #576.
Sample filter changed.
As found high point failed. Check parameters record. Found UV lamp voltage changed from 838 to 767 after power issue on Feb 11.


TRS[ppb] Station: PRAMP 842b Daily: 17-02-2022 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:	17-Feb-2022	PREVIOUS CALIBRATION DATE:	20-Jan-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	21.7
LOCATION:	842b	BAROMETRIC (mBar):	930
PURPOSE	Routine	START TIME (MST):	10:46
PERFORMED BY:	Limin Li	END TIME (MST):	14:12

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1501663728	1020
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.002	1.002	1.001

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	2000		LOW ID:	n/a
MFC CALIBRATION DATE:	20-Sep-2021	OXIDIZER ID:	111	EXPIRY DATE	18-Aug-2029		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	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	8.39	11.10	19.49		8.85	11.12	19.97

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			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						
3416	84.00	3500	14.59	13.40	27.99	14.39	13.54	27.93	14.58	13.40	27.98	1.014	0.990	1.002	1.001	1.000	1.000
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.12	6.61	13.73	n/a	n/a	n/a	1.025	1.013	1.019
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.51	3.31	6.82	n/a	n/a	n/a	1.039	1.012	1.026

LINEAR REGRESSION ANALYSIS:

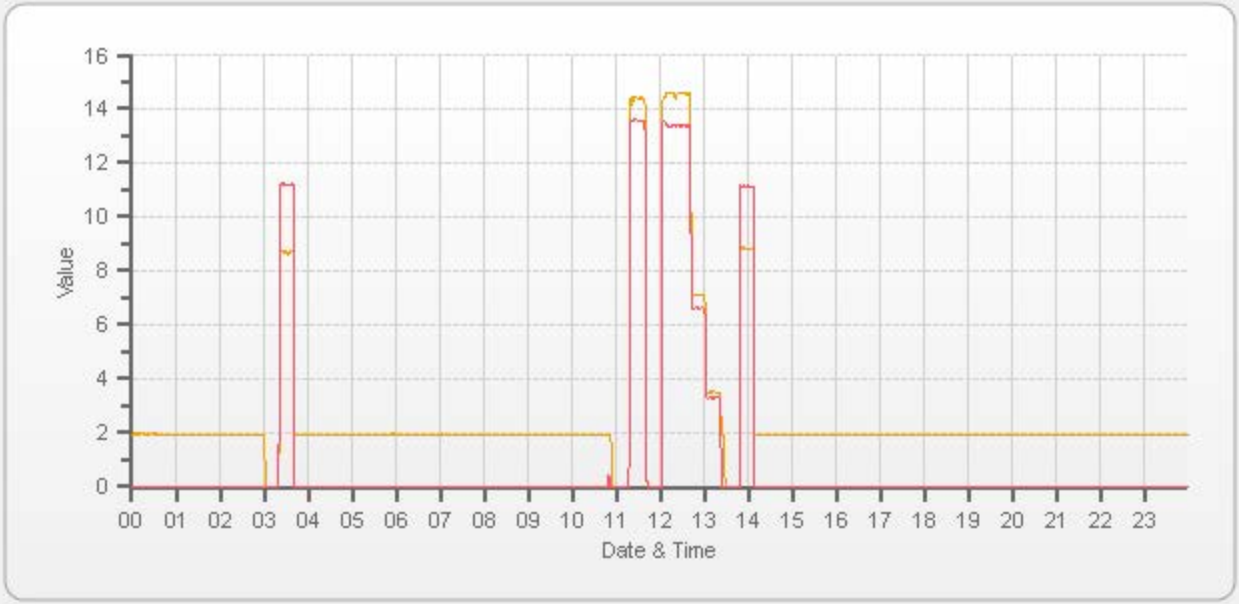
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.001	-0.4%
NMHC	1.000	1.000	-0.2%
THC	1.000	1.001	-0.3%

Comments:

Change sample filter.

Use Zero Chrom? **Yes**

Station: PRAMP 842b Daily: 17-02-2022 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	February 17, 2022
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:	January 20, 2022	Channel offline =11:42 - 12:43, Audit 10 tip:12:42-12:43.
Is the sensor Level?	yes	
Is the heater operating properly?	yes	Funnel clear but ice blocking tipping bucket/drains
Are the bucket drain holes clean?	yes	
Is the screen on the housing? (screen should be on between July and September	no	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

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

# of Tips	Data Logger Response (ml):	Manual Specification = +/- 0.1 ml
10	1.0	0.00

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	January 20, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (^{o}C):	-7.4
Station - Ambient Temperature (^{o}C):	-7.8
Temperature Difference (^{o}C):	0.4

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	January 20, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Jan 17, 2023	
Reference Pressure - Units/Reading:	millibar	933.5
Station Pressure - Units/Reading:	millibar	932.5
Pressure Tolerance +/- 15% of error:	793 - 1074	0.11%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	January 20, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	74.70	
Station Hygrometer % RH- Reading:	79.10	
RH Tolerance +/- 15% of difference:	63.50 - 85.91	-5.9%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	January 20, 2022	Previous check date:	January 20, 2022
Wind Speed Observed (kph):	0~10	Wind Direction Observed:	NW
Wind speed on Data Logger (kph):	3.9	Wind Direction on Data Logger:	NW
		Wind Direction Pass/Fail?:	Pass

Comments

PRECIP as-found =no response. Clean ice inside. Audit pass.

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Limin Li
Audit Location:	842b	**Reviewed By:**	Chris Wesson
Audit Date:	July 4, 2021	**Start/End Time (mst):**	12:16/13:43
Calibration Purpose:	routine annual	**Weather Conditions:**	Mainly cloudy with sunny breaks

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:**	0-200
Serial #:	174802	**Direction Voltage Output Range:**	0-1
Previous Cal/Audit Date:	December 16, 2020	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# CA03309 expires June 07, 2023

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	355	0.0	0.0	0.0
30	330	29	331	1.0	-1.0	1.0
60	300	58	301	2.0	-1.0	1.5
90	270	88	272	2.0	-2.0	2.0
120	240	118	241	2.0	-1.0	1.5
150	210	149	211	1.0	-1.0	1.0
180	180	179	180	1.0	0.0	0.5
210	150	210	149	0.0	1.0	0.5
240	120	241	119	-1.0	1.0	1.0
270	90	272	88	-2.0	2.0	2.0
300	60	301	58	-1.0	2.0	1.5
330	30	331	29	-1.0	1.0	1.0
355	0	355	0	0.0	0.0	0.0
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**1.0**

Comments:

Change 2 speed bearing.

Peace River Area Monitoring Program

FEBRUARY 2022

Ambient Air Monitoring Calibration Report

- 986c STATION-

CAL-PRAMP-202202-01562

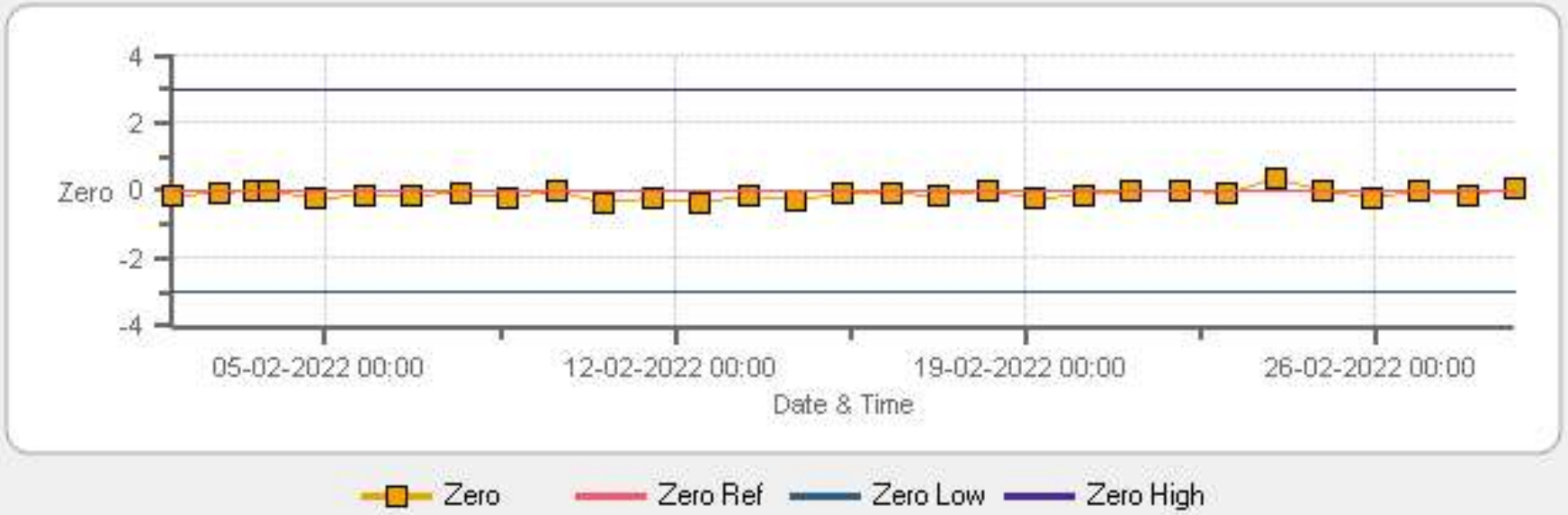
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

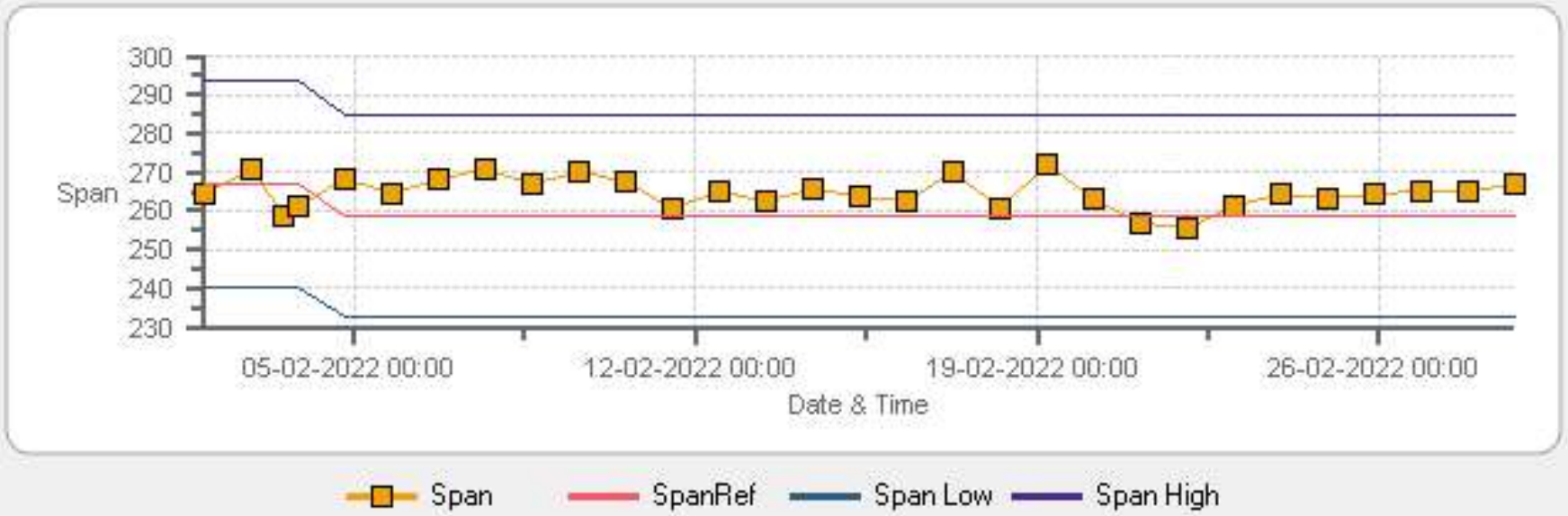
March 25, 2022

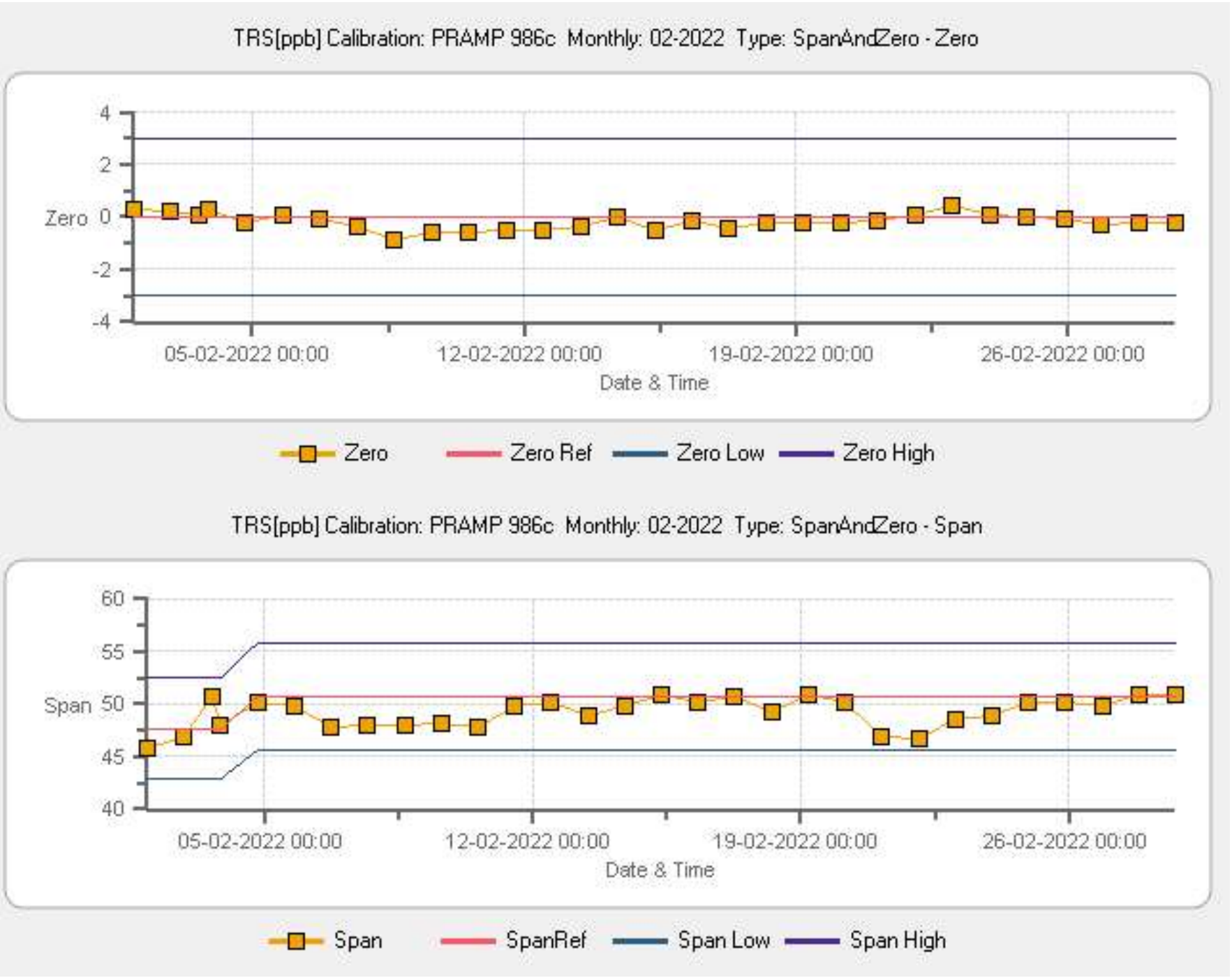
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP 986c Monthly: 02-2022 Type: SpanAndZero - Zero

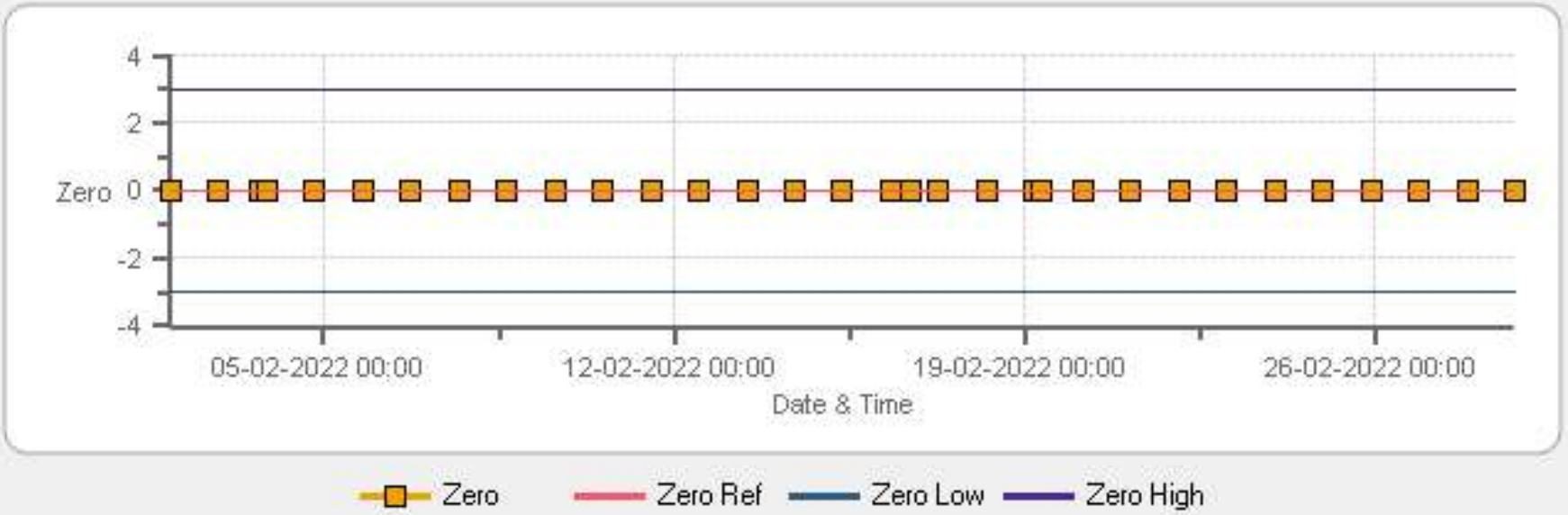


SO2[ppb] Calibration: PRAMP 986c Monthly: 02-2022 Type: SpanAndZero - Span

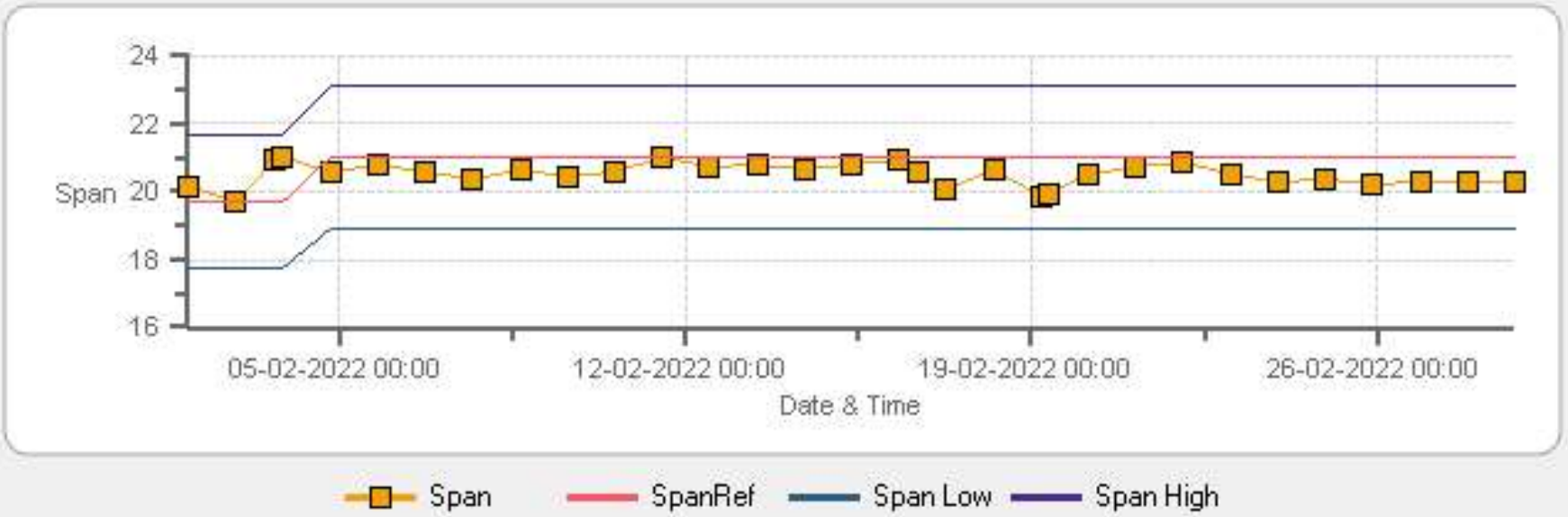


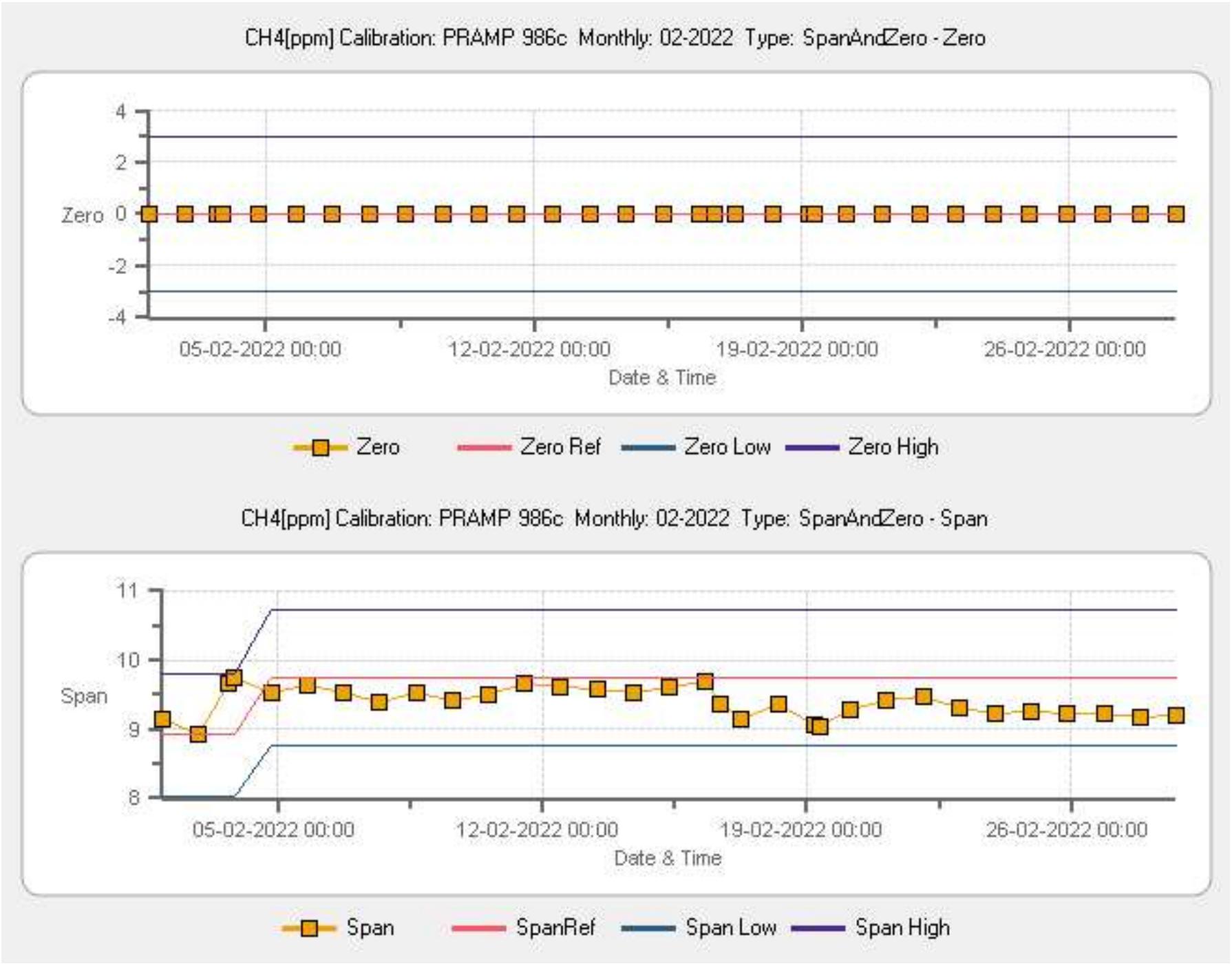

TRS[ppb] Calibration: PRAMP 986c Monthly: 02-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: PRAMP 986c Monthly: 02-2022 Type: SpanAndZero - Span
60
55
Span 50
45
40
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

THC55[ppm] Calibration: PRAMP 986c Monthly: 02-2022 Type: SpanAndZero - Zero

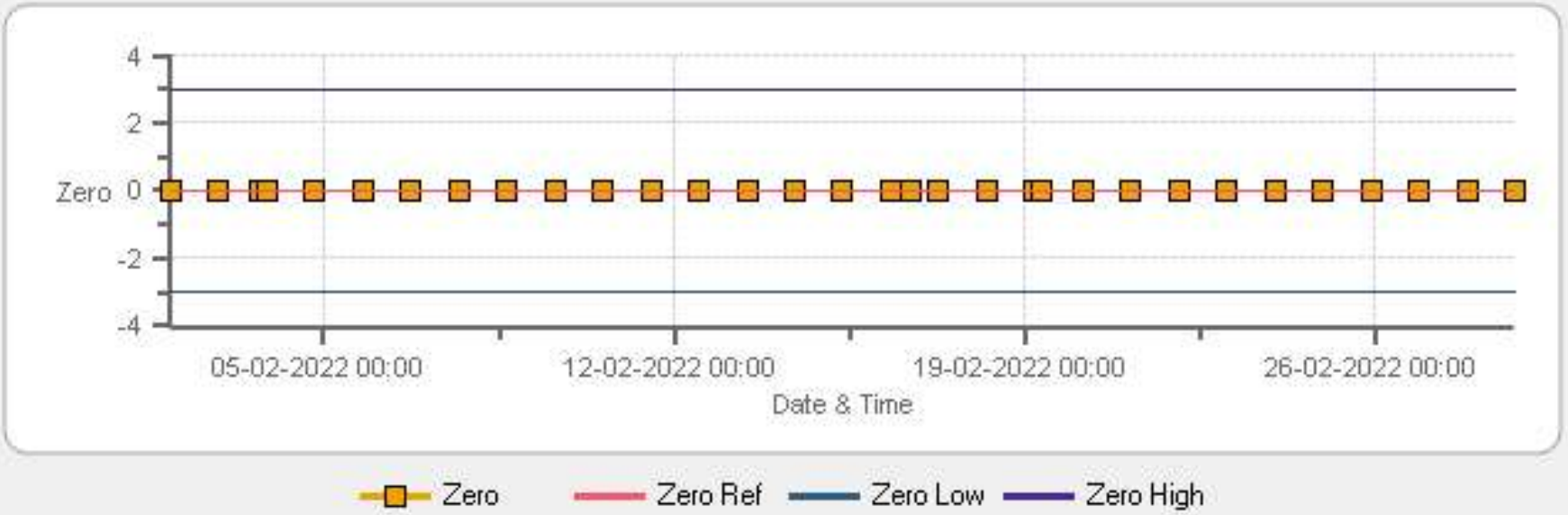


THC55[ppm] Calibration: PRAMP 986c Monthly: 02-2022 Type: SpanAndZero - Span

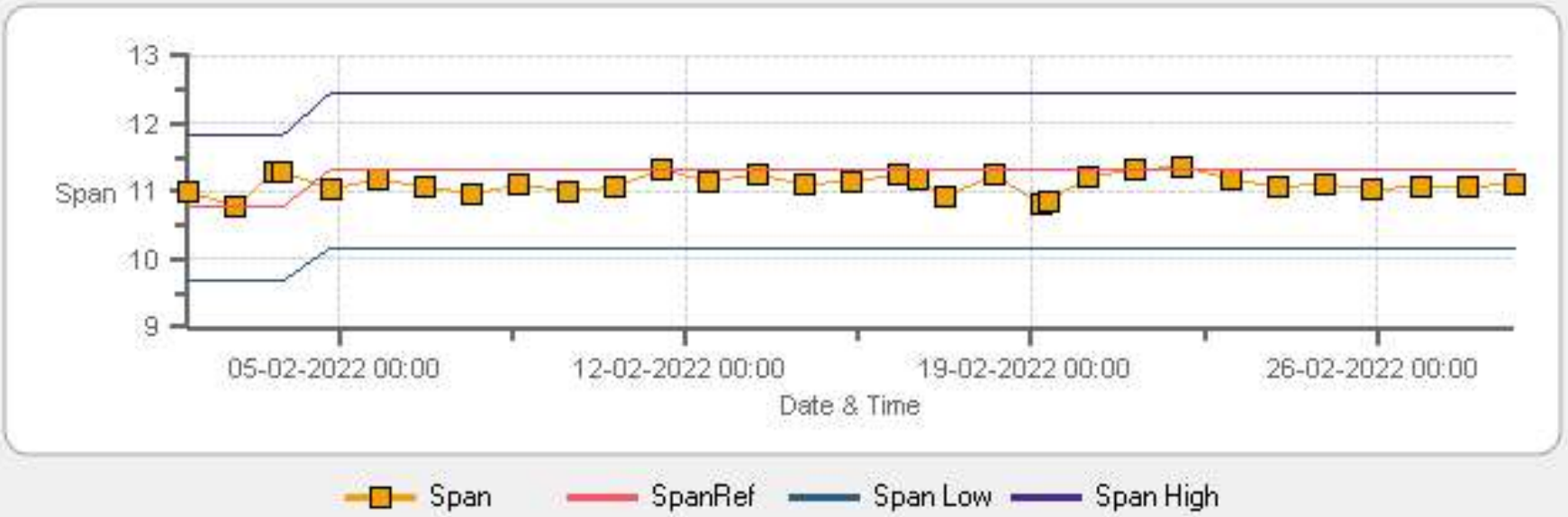



CH4[ppm] Calibration: PRAMP 986c Monthly: 02-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: PRAMP 986c Monthly: 02-2022 Type: SpanAndZero - Span
11
10
Span
9
8
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

NMHC[ppm] Calibration: PRAMP 986c Monthly: 02-2022 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 986c Monthly: 02-2022 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	03-Feb-2022	PREVIOUS CALIBRATION DATE:	13-Jan-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.5
LOCATION:	986C	BAROMETRIC (mBar):	956
PURPOSE	Routine	START TIME (MST):	10:33
PERFORMED BY:	Limin Li	END TIME (MST):	14:05

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	434
INITIAL		FINAL	
BKG/OFFSET	14.4	BKG/OFFSET	14.1
COEF/SLOPE	1.072	COEF/SLOPE	1.045
Expected (reference) Value	266.9	Expected (reference) Value	258.7

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	API
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	20-Sep-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0000647	HIGH ID	n/a
CONC (ppm):	51.6	EXPIRY DATE	n/a
CYLINDER (psi):	1000	LOW ID	n/a
EXPIRY DATE	24-Feb-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		
6000		6000	0.00	-0.1	0		
5956	44.20	6000	380.12	389.6	380	0.975	1.000
5979	20.90	6000	179.74	n/a	181.1	n/a	0.992
5990	10.50	6000	90.30	n/a	89.5	n/a	1.009

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.0%

COMMENTS:

Sample filter changed.

SO2[ppb] Station: PRAMP 986c Daily: 03-02-2022 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	03-Feb-2022	PREVIOUS CALIBRATION DATE:	13-Jan-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	23.5
LOCATION:	986C	BAROMETRIC (mBar):	956
PURPOSE	Routine	START TIME (MST):	10:36
PERFORMED BY:	Limin Li	END TIME (MST):	15:02

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	429
INITIAL		FINAL	
BKG/OFFSET	14.3	BKG/OFFSET	15.5
COEF/SLOPE	0.946	COEF/SLOPE	1.014
Expected (reference) Value	47.7	Expected (reference) Value	50.77

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	21-Sep-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1800	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	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:	11:08	SO2 Conc (ppb)	380
END TIME:	11:38	Analyzer Response (ppb)	0.1

CALIBRATION:

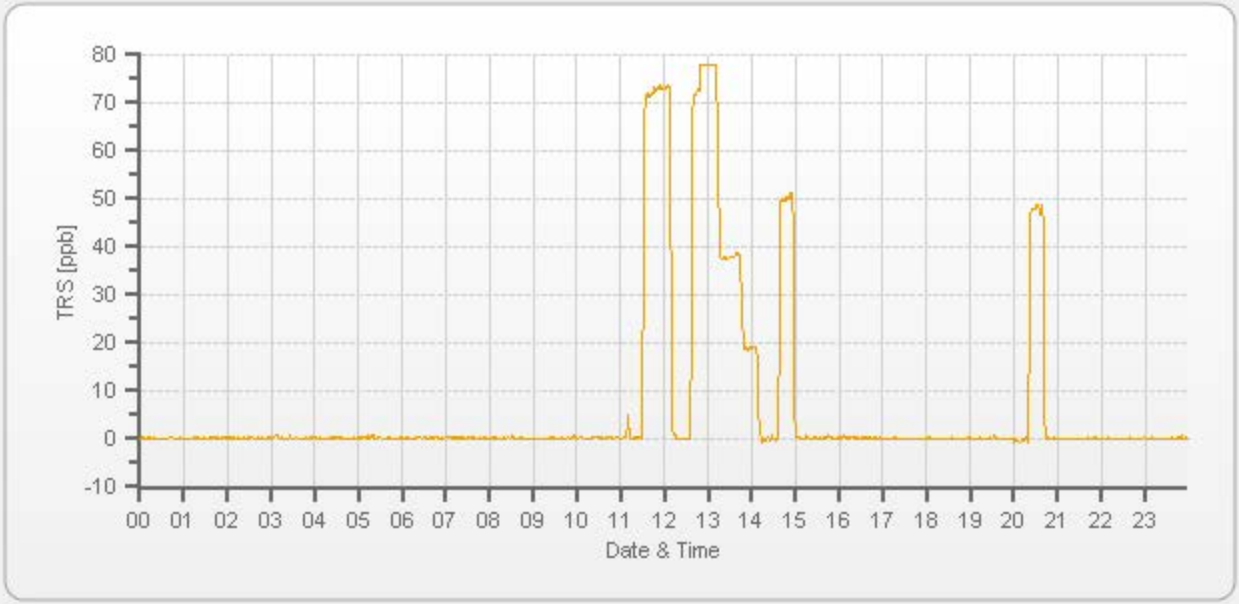
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	0.26	0		
7443	57.35	7500	78.00	73.36	78	1.067	1.000
7472	27.94	7500	38.00	n/a	38.5	n/a	0.987
7486	13.97	7500	19.00	n/a	19	n/a	1.000

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.1%

COMMENTS:

Sample filter changed.


TRS[ppb] Station: PRAMP 986c Daily: 03-02-2022 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:	03-Feb-2022	PREVIOUS CALIBRATION DATE:	13-Jan-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	23.5
LOCATION:	986C	BAROMETRIC (mBar):	956
PURPOSE	Routine	START TIME (MST):	13:12
PERFORMED BY:	Limin Li	END TIME (MST):	16:48

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1193585652	1315
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.000	1.000	1.000

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	2100		LOW ID:	n/a
MFC CALIBRATION DATE:	20-Sep-2021	OXIDIZER ID:	111	EXPIRY DATE	18-Aug-2029		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	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	8.92	10.77	19.69		9.74	11.31	21.04

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						
3416	84.00	3500	14.59	13.40	27.99	13.41	12.79	26.20	14.60	13.40	28.00	1.088	1.048	1.068	0.999	1.000	1.000
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.24	6.73	13.97	n/a	n/a	n/a	1.008	0.995	1.002
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.61	3.39	7.00	n/a	n/a	n/a	1.011	0.988	1.000

LINEAR REGRESSION ANALYSIS:

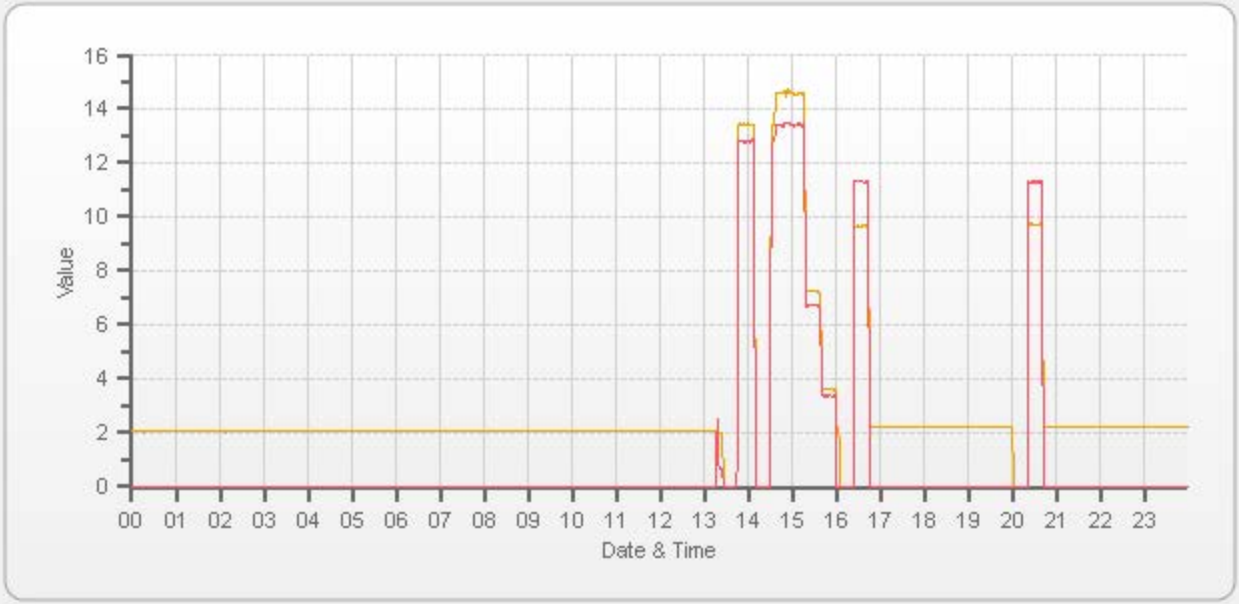
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.001	-0.1%
NMHC	1.000	0.999	0.1%
THC	1.000	1.000	0.0%

Comments:

n/a

Use Zero Chrom? **No**

Station: PRAMP 986c Daily: 03-02-2022 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	February 3, 2022
Technician:	Limin Li
Station:	PRAMP 986c

Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 16325
Temperature Sensor:	Rotronic	HC2-S3	61116376
Barometric Pressure Sensor:	MetOne	092	Y23358
Relative Humidity Sensor:	Rotronic	HC2-S3	61116376
Anemometer:	RM Young	05305L	174795

PRECIPITATION SENSOR CHECK

Checklist:	Reply:	Comments:
Previous check date:	December 7, 2021	Tip test: 14:02-14:03
Is the sensor Level?	yes	
Is the heater operating properly?	yes	Funnel is clear of ice/snow
Are the bucket drain holes clean?	no	Frozen below tipping mechanism
Is the screen on the housing? (screen should be on between July and September	no	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

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

# of Tips	Data Logger Response (ml):	Manual Specification = +/- 0.1 ml
10	1.0	0.00

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	January 13, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (^{o}C):	-21.3
Station - Ambient Temperature (^{o}C):	-21.7
Temperature Difference (^{o}C):	0.4

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	January 13, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Jan 17, 2023	
Reference Pressure - Units/Reading:	millibar	956.7
Station Pressure - Units/Reading:	millibar	957
Pressure Tolerance +/- 15% of error:	813 - 1100	-0.03%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	January 13, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	60.11	
Station Hygrometer % RH- Reading:	71.70	
RH Tolerance +/- 15% of difference:	51.09 - 69.13	-19.3%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	January 13, 2022	Previous check date:	January 13, 2022
Wind Speed Observed (kph):	0~5	Wind Direction Observed:	SW
Wind speed on Data Logger (kph):	1.4	Wind Direction on Data Logger:	SW
		Wind Direction Pass/Fail?:	Pass

Comments

Bucket/drains frozen. Clean ice, test OK

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Limin Li
Audit Location:	986C	**Reviewed By:**	Chris Wesson
Audit Date:	July 3, 2021	**Start/End Time (mst):**	15:58 / 17:20
Calibration Purpose:	routine annual	**Weather Conditions:**	Mainly cloudy with sunny breaks

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:	July 16, 2020	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# CA03309 expires June 07, 2023

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	1	354	1.0	1.0	1.0
30	330	30	333	0.0	-3.0	1.5
60	300	59	303	1.0	-3.0	2.0
90	270	88	273	2.0	-3.0	2.5
120	240	118	243	2.0	-3.0	2.5
150	210	147	209	3.0	1.0	2.0
180	180	177	177	3.0	3.0	3.0
210	150	209	147	1.0	3.0	2.0
240	120	242	117	-2.0	3.0	2.5
270	90	273	87	-3.0	3.0	3.0
300	60	303	59	-3.0	1.0	2.0
330	30	333	30	-3.0	0.0	1.5
355	0	354	1	1.0	1.0	1.0
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**2.0**

Comments:

Magnetic declination = 15Deg(E)

Peace River Area Monitoring Program

FEBRUARY 2022

Ambient Air Monitoring Calibration Report

- RENO STATION-

CAL-PRAMP-202202-01563

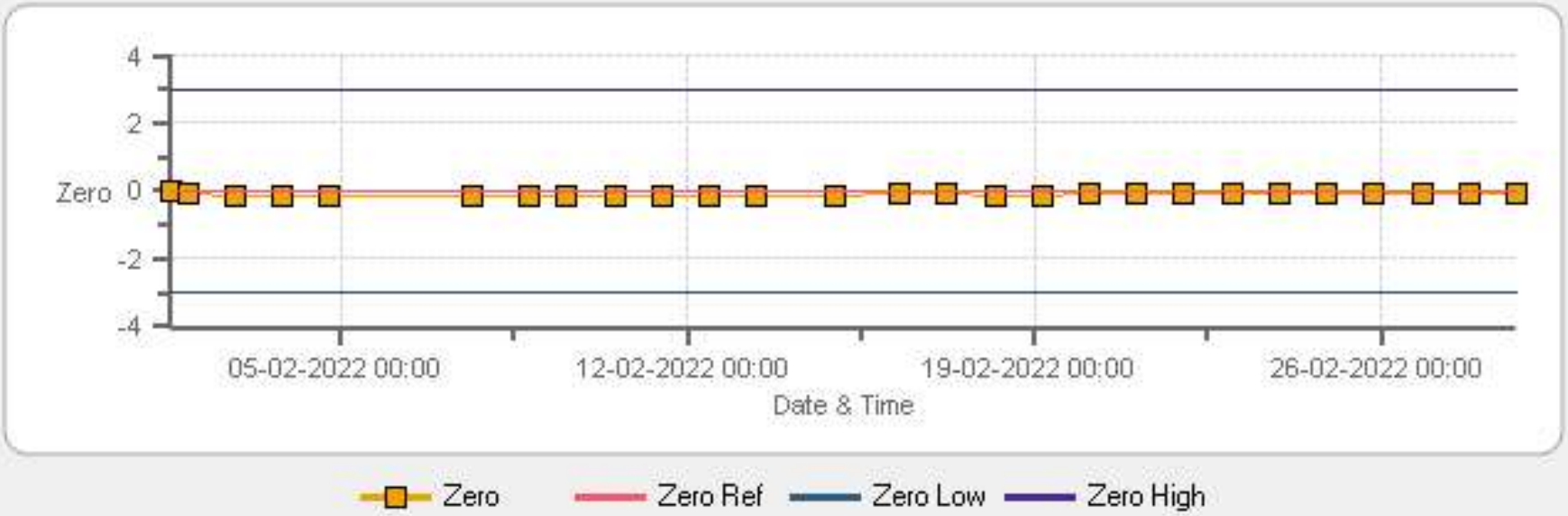
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

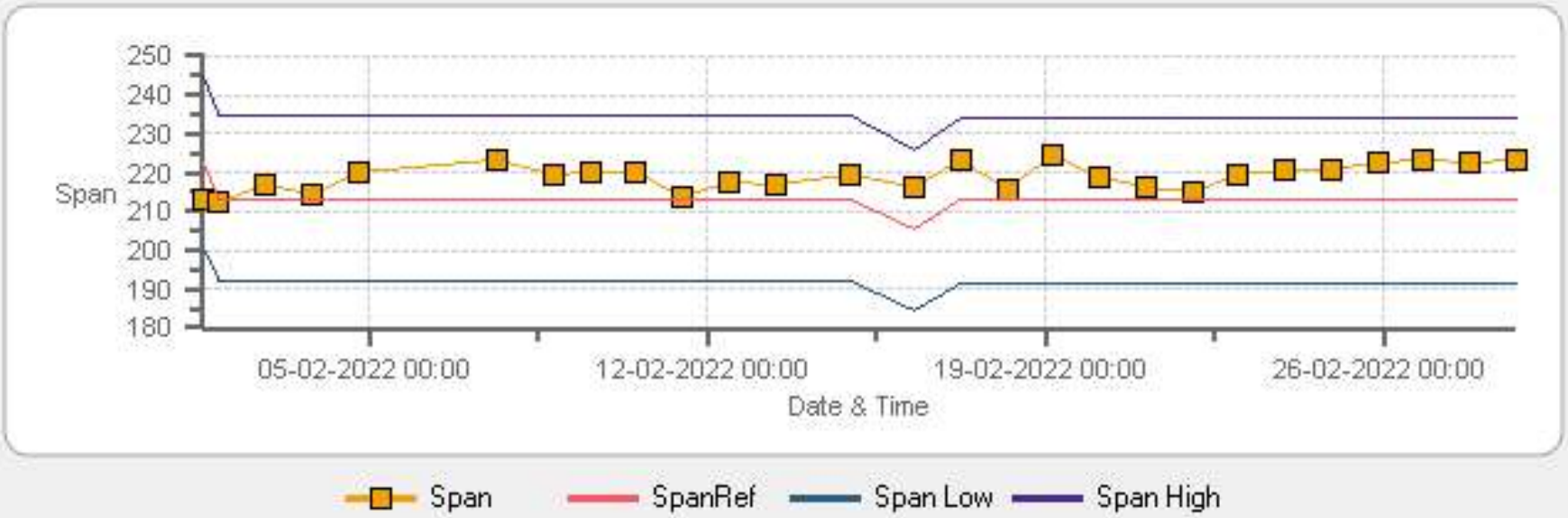
March 24, 2022

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: PRAMP RENO Monthly: 02-2022 Type: SpanAndZero - Zero



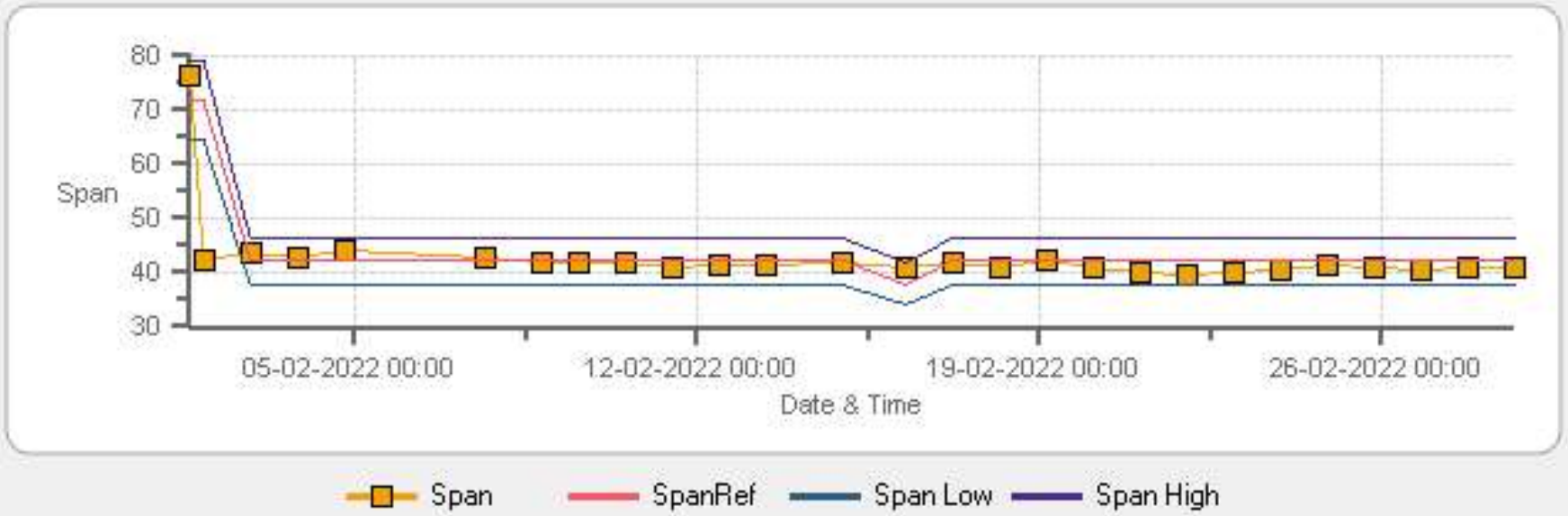
SO2[ppb] Calibration: PRAMP RENO Monthly: 02-2022 Type: SpanAndZero - Span

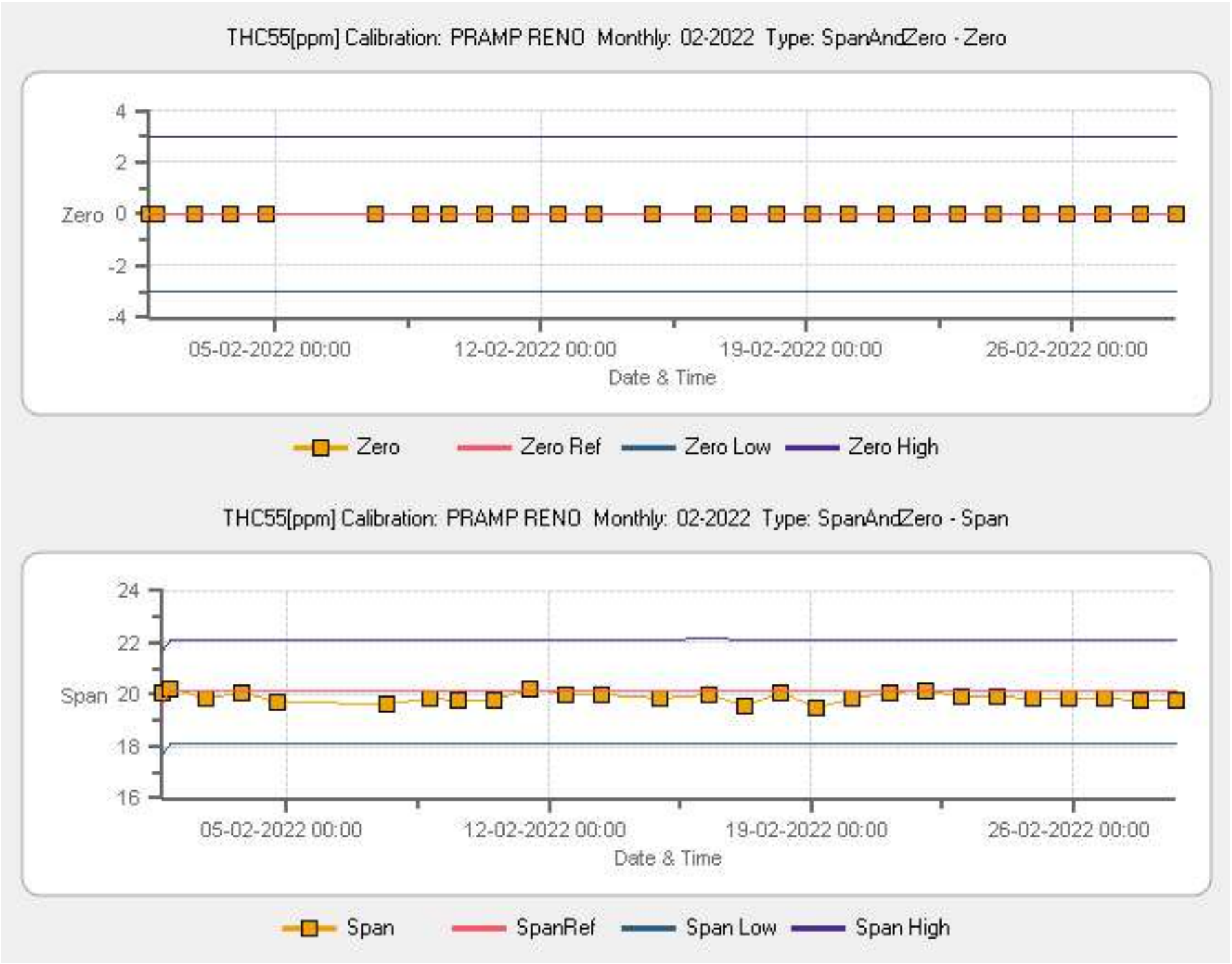


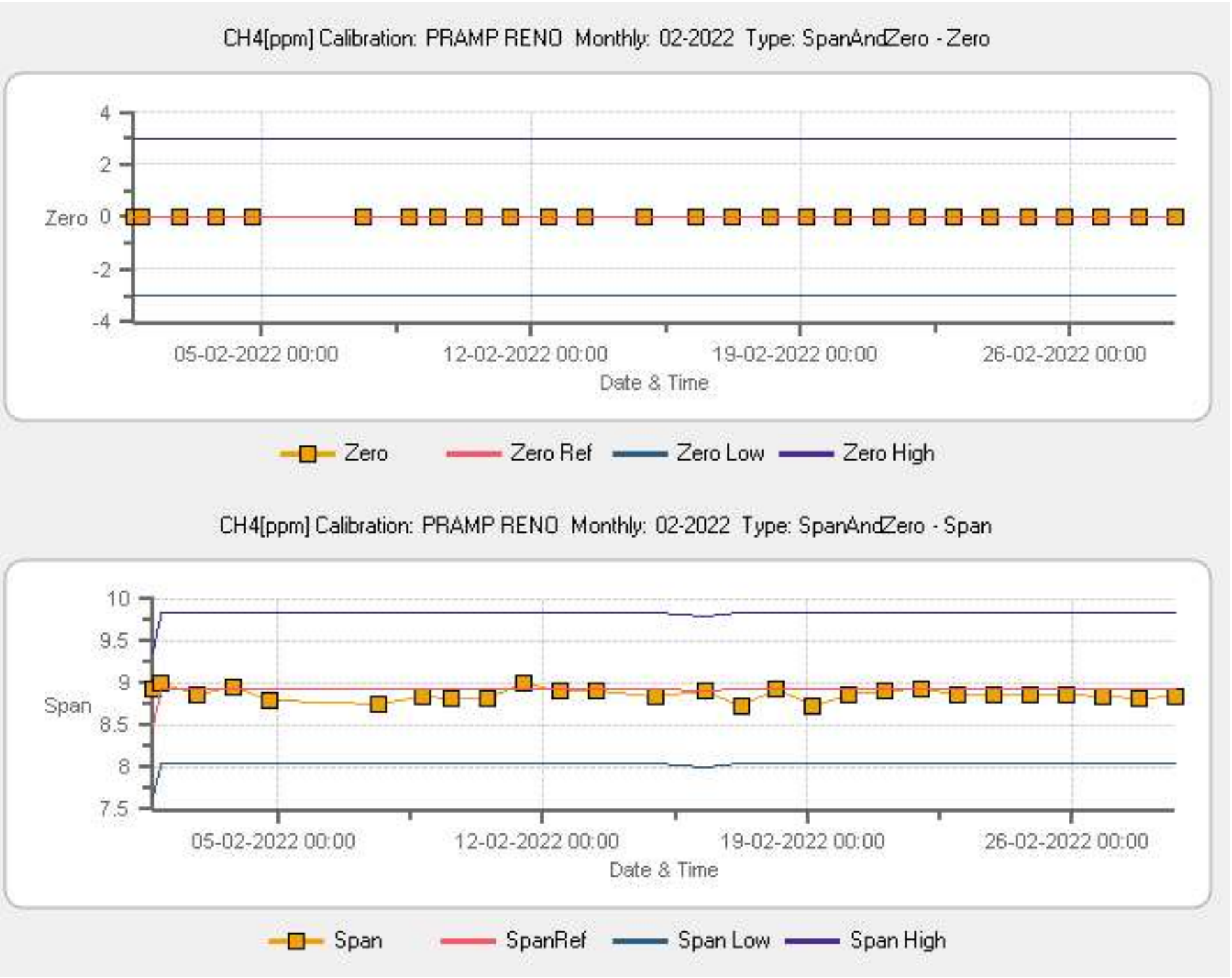
TRS[ppb] Calibration: PRAMP RENO Monthly: 02-2022 Type: SpanAndZero - Zero

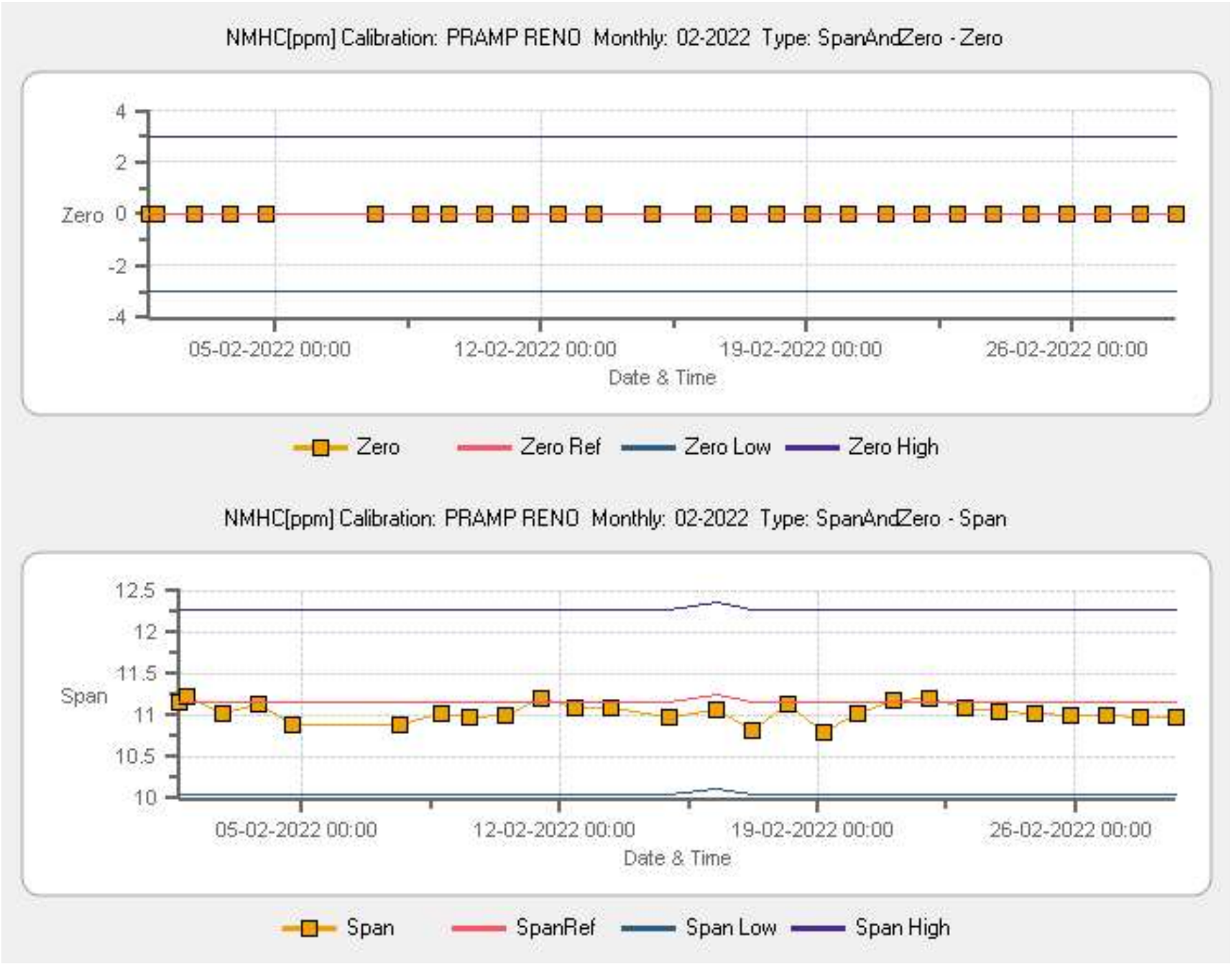


TRS[ppb] Calibration: PRAMP RENO Monthly: 02-2022 Type: SpanAndZero - Span




THC55[ppm] Calibration: PRAMP RENO Monthly: 02-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: PRAMP RENO Monthly: 02-2022 Type: SpanAndZero - Span
24
22
Span 20
18
16
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


CH4[ppm] Calibration: PRAMP RENO Monthly: 02-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: PRAMP RENO Monthly: 02-2022 Type: SpanAndZero - Span
10
9.5
Span 9
8.5
8
7.5
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


NMHC[ppm] Calibration: PRAMP RENO Monthly: 02-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: PRAMP RENO Monthly: 02-2022 Type: SpanAndZero - Span
12.5
12
11.5
Span
11
10.5
10
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	01-Feb-2022	PREVIOUS CALIBRATION DATE:	12-Jan-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	24.3
LOCATION:	Reno	BAROMETRIC (mBar):	955
PURPOSE	Routine	START TIME (MST):	10:00
PERFORMED BY:	Limin Li	END TIME (MST):	13:50

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	12101910505	FLOW (mL/min)	451
INITIAL		FINAL	
BKG/OFFSET	0.89	BKG/OFFSET	1.07
COEF/SLOPE	0.951	COEF/SLOPE	0.945
Expected (reference) Value	222.8	Expected (reference) Value	213.2

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	20-Sep-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0000647	HIGH ID	n/a
CONC (ppm):	51.6	EXPIRY DATE	n/a
CYLINDER (psi):	1000	LOW ID	n/a
EXPIRY DATE	24-Feb-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		
6000		6000	0.00	0.1	0		
5956	44.20	6000	380.12	382	379.9	0.995	1.001
5979	20.90	6000	179.74	n/a	179.9	n/a	0.999
5990	10.50	6000	90.30	n/a	89	n/a	1.015

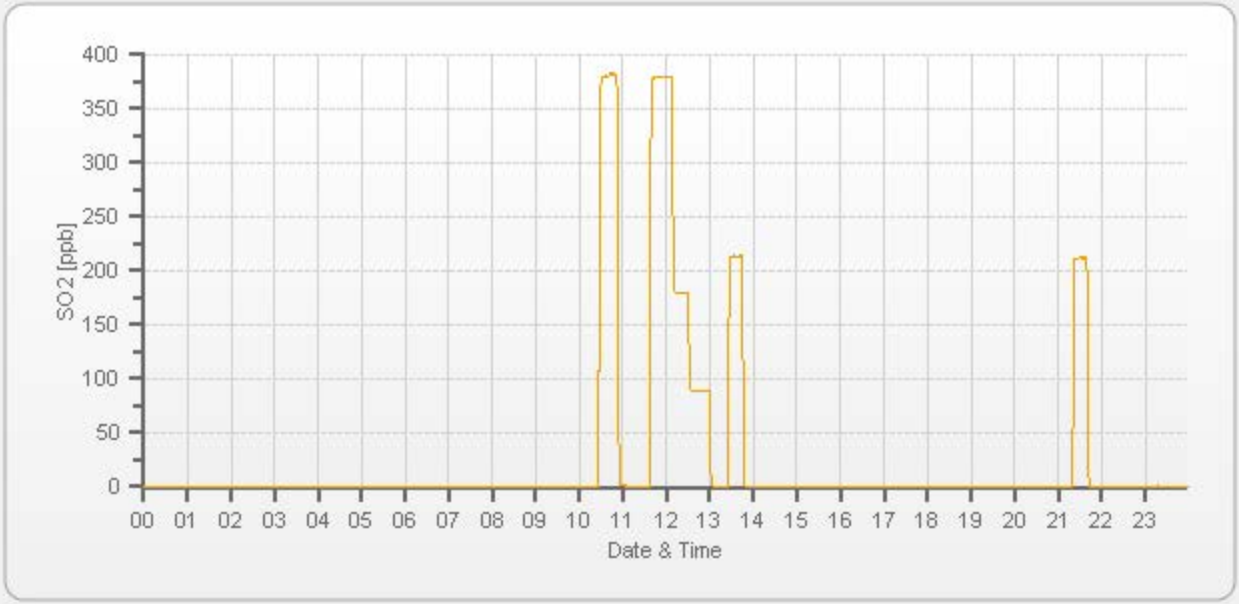
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Change sample filter.

SO2[ppb] Station: PRAMP RENO Daily: 01-02-2022 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	01-Feb-2022	PREVIOUS CALIBRATION DATE:	12-Jan-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	24.3
LOCATION:	Reno	BAROMETRIC (mBar):	955
PURPOSE	Routine	START TIME (MST):	10:00
PERFORMED BY:	Limin Li	END TIME (MST):	15:05

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	12101910504	FLOW (mL/min)	405
INITIAL		FINAL	
BKG/OFFSET	0.84	BKG/OFFSET	1.12
COEF/SLOPE	0.891	COEF/SLOPE	0.934
Expected (reference) Value	71.88	Expected (reference) Value	42.08

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	21-Sep-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1800	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	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:	10:29	SO2 Conc (ppb)	380
END TIME:	10:49	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	0.02	0		
7443	57.35	7500	78.00	76.2	78	1.024	1.000
7472	27.94	7500	38.00	n/a	37.87	n/a	1.003
7486	13.97	7500	19.00	n/a	18.66	n/a	1.018

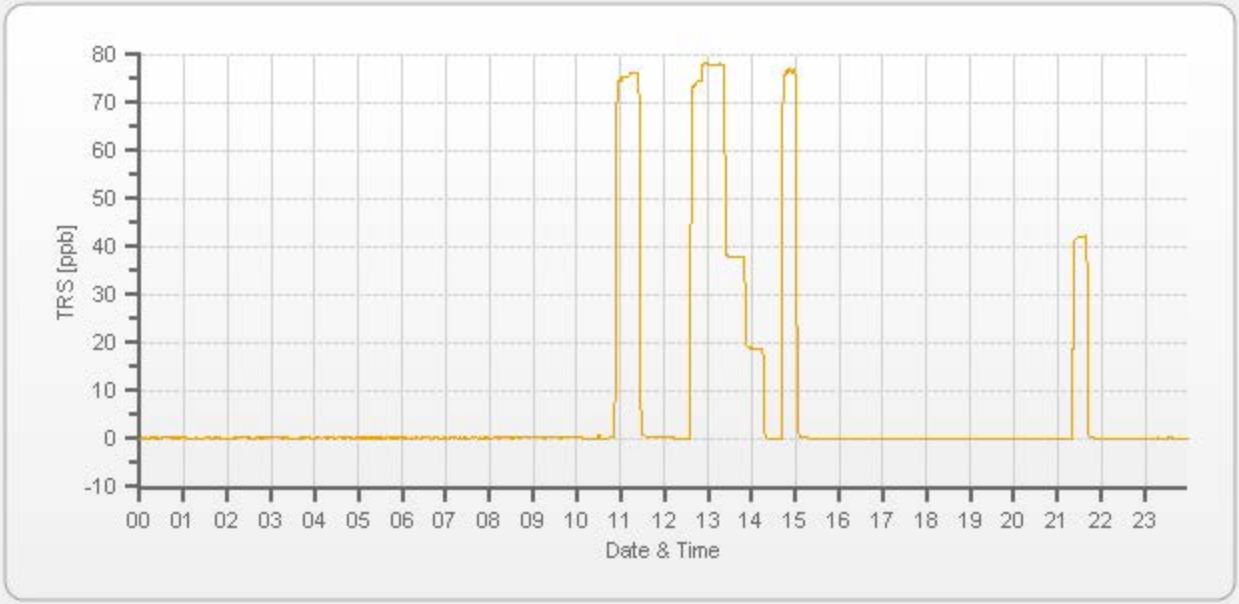
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.2%

COMMENTS:

Converter: CDNova CDN-101 #590

TRS[ppb] Station: PRAMP RENO Daily: 01-02-2022 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	01-Feb-2022	PREVIOUS CALIBRATION DATE:	12-Jan-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	24.2
LOCATION:	Reno	BAROMETRIC (mBar):	956
PURPOSE	Routine	START TIME (MST):	13:04
PERFORMED BY:	Limin Li	END TIME (MST):	17:35

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	12101910497	1202
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.000	1.000	1.000

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	2100		LOW ID:	n/a
MFC CALIBRATION DATE:	20-Sep-2021	OXIDIZER ID:	111	EXPIRY DATE	18-Aug-2029		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	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	8.51	11.15	19.67		8.94	11.16	20.11

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			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						
3416	84.00	3500	14.59	13.40	27.99	14.39	13.71	28.10	14.54	13.35	27.89	1.014	0.977	0.996	1.004	1.004	1.004
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.24	6.68	13.92	n/a	n/a	n/a	1.008	1.003	1.005
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.62	3.37	6.99	n/a	n/a	n/a	1.008	0.994	1.001

LINEAR REGRESSION ANALYSIS:

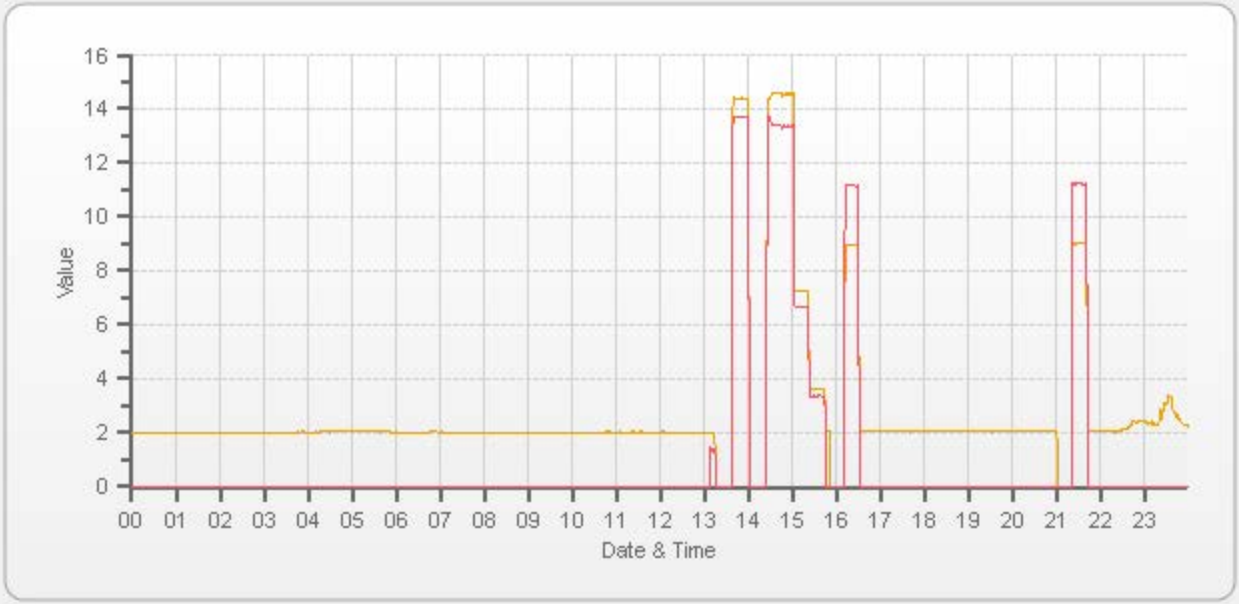
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	0.997	-0.1%
NMHC	1.000	0.996	0.1%
THC	1.000	0.996	0.0%

Comments:

No issues

Use Zero Chrom? **No**

Station: PRAMP RENO Daily: 01-02-2022 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	February 1, 2022
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	K12864
Relative Humidity Sensor:	RM Young	43172VC	60837897
Anemometer:	RM Young	05305VK	149769

PRECIPITATION SENSOR CHECK

Checklist:	Reply:	Comments:
Previous check date:	January 12, 2022	Tiptest = 13:27~13:28
Is the sensor Level?	yes	
Is the heater operating properly?	yes	Heater works, but Iced is in collection funnel to block the hole. Clean ice.
Are the bucket drain holes clean?	yes	
Is the screen on the housing? (screen should be on between July and September	no	
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	1.00	0.00

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	January 12, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (^{o}C):	-20.4
Station - Ambient Temperature (^{o}C):	-21.3
Temperature Difference (^{o}C):	0.9

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	January 12, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Jan 17, 2023	
Reference Pressure - Units/Reading:	millibar	956.1
Station Pressure - Units/Reading:	millibar	957.9
Pressure Tolerance +/- 15% of error:	813 - 1100	-0.19%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	January 12, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	70.50	
Station Hygrometer % RH- Reading:	62.10	
RH Tolerance +/- 15% of difference:	59.93 - 81.08	11.9%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	January 11, 2022	Previous check date:	January 11, 2022
Wind Speed Observed (kph):	5~15	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	7.7	Wind Direction on Data Logger:	W
		Wind Direction Pass/Fail?:	Pass

Comments

As-found drain hole/base blocked by ice. Cleared ice, as-left = OK

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Limin Li
Audit Location:	Reno	**Reviewed By:**	
Audit Date:	July 5, 2021	**Start/End Time (mst):**	12:46/13:50
Calibration Purpose:	routine annual	**Weather Conditions:**	Mainly sunny

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:	June 17, 2020	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# CA03309 expires June 07, 2023

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	147.6	147.6	0.999
9000	165.9	166.2	166.2	0.998
10000	184.3	184.8	184.8	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	1	354	1.0	1.0	1.0
30	330	32	329	-2.0	1.0	1.5
60	300	62	300	-2.0	0.0	1.0
90	270	93	270	-3.0	0.0	1.5
120	240	122	240	-2.0	0.0	1.0
150	210	152	211	-2.0	-1.0	1.5
180	180	182	181	-2.0	-1.0	1.5
210	150	212	151	-2.0	-1.0	1.5
240	120	241	121	-1.0	-1.0	1.0
270	90	270	91	0.0	-1.0	0.5
300	60	300	61	0.0	-1.0	0.5
330	30	329	31	1.0	-1.0	1.0
355	0	354	0	1.0	0.0	0.5
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**1.1**

Comments:

Bearings replaced. Declination = 15deg East

Peace River Area Monitoring Program

FEBRUARY 2022

Ambient Air Monitoring Calibration Report

- AQHI - GRIMSHAW STATION-

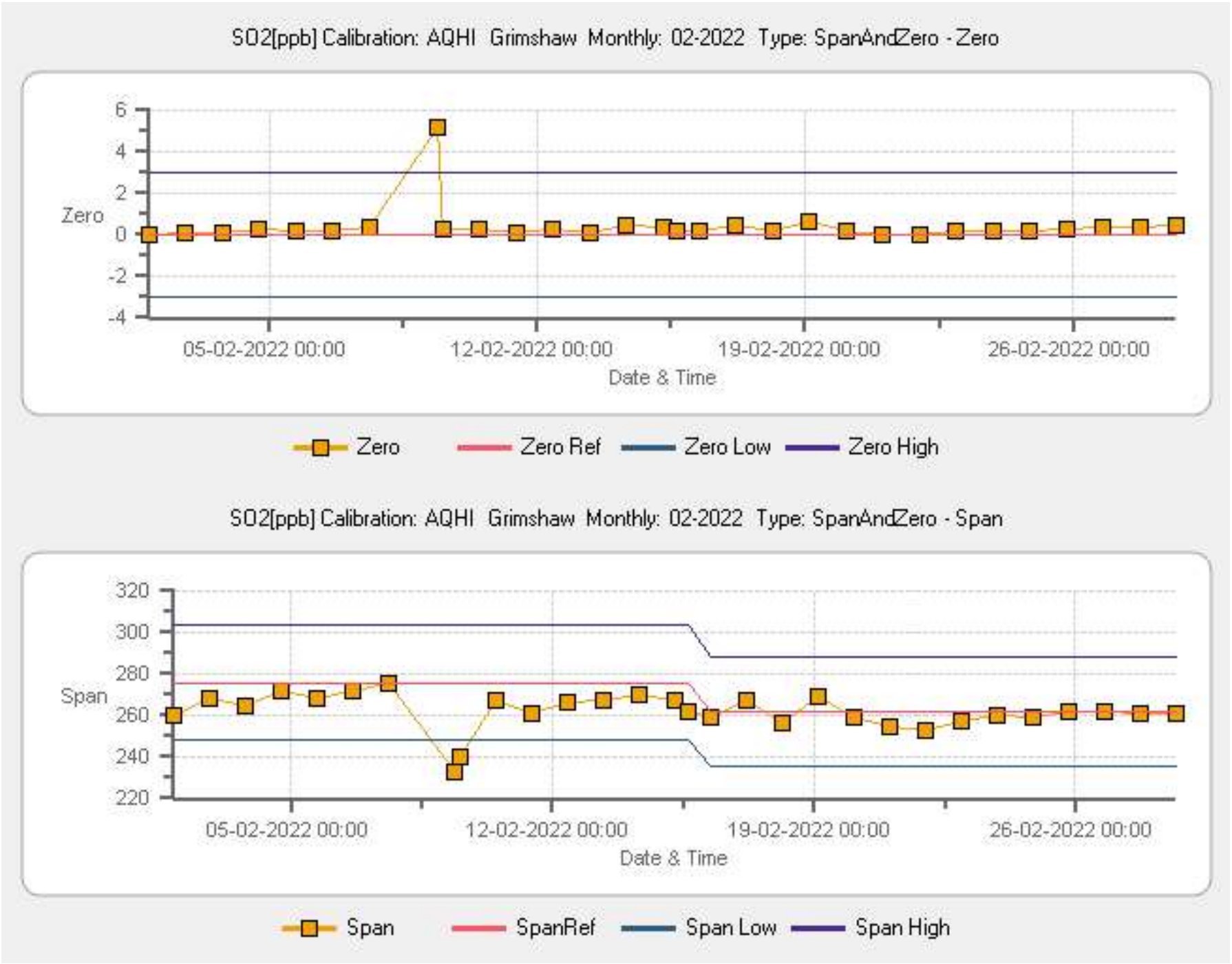
CAL-PRAMP-202202-01689

Operation and Maintenance:
Bureau Veritas Canada

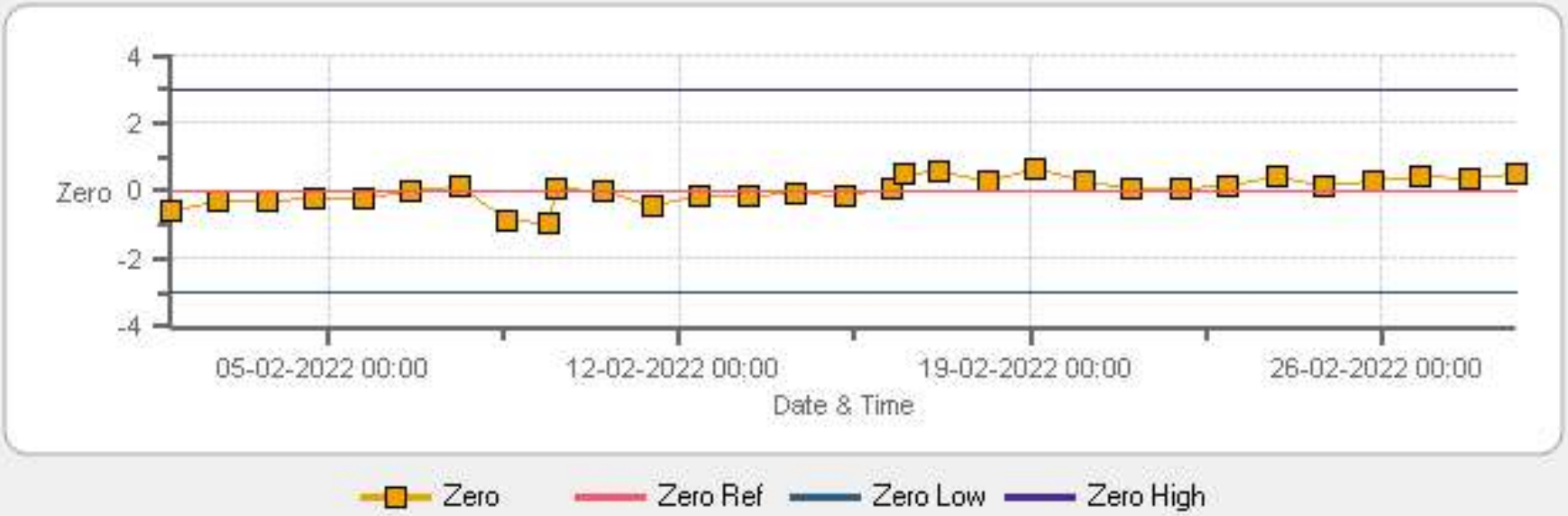
Data Validation and Report:
Bureau Veritas Canada

March 24, 2022

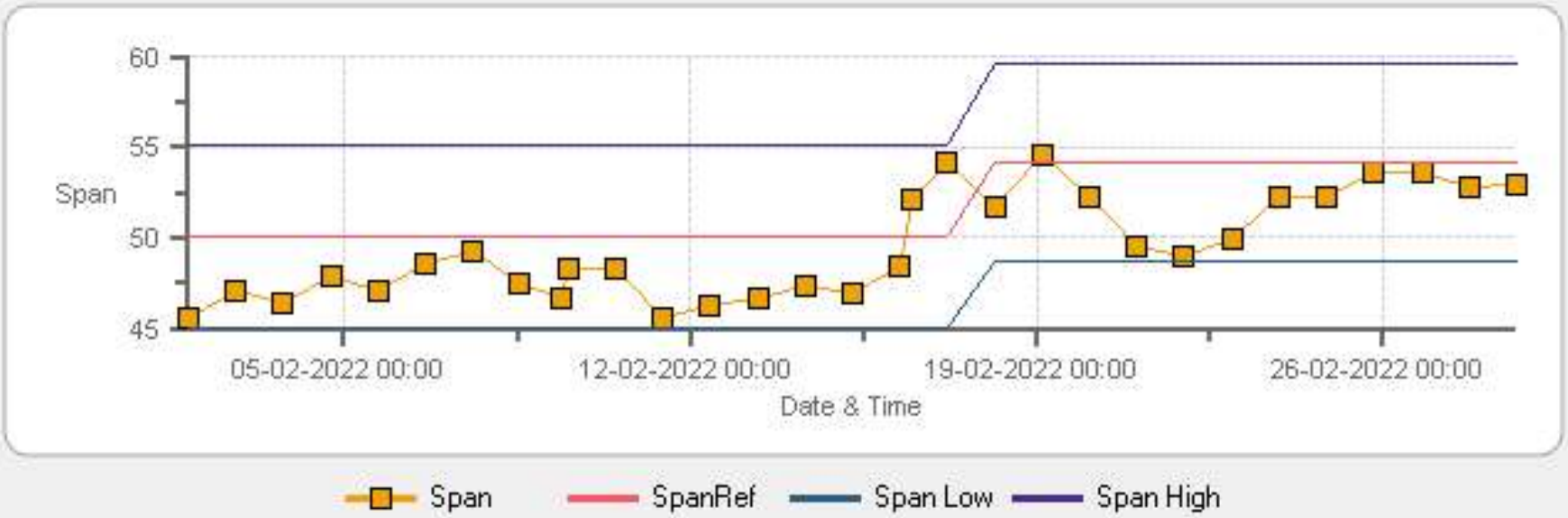
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS


SO2[ppb] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Zero
Zero
6
4
2
0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
SO2[ppb] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Span
Span
320
300
280
260
240
220
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

TRS[ppb] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Zero



TRS[ppb] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Span



NOX[ppb] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Zero



NOX[ppb] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Span

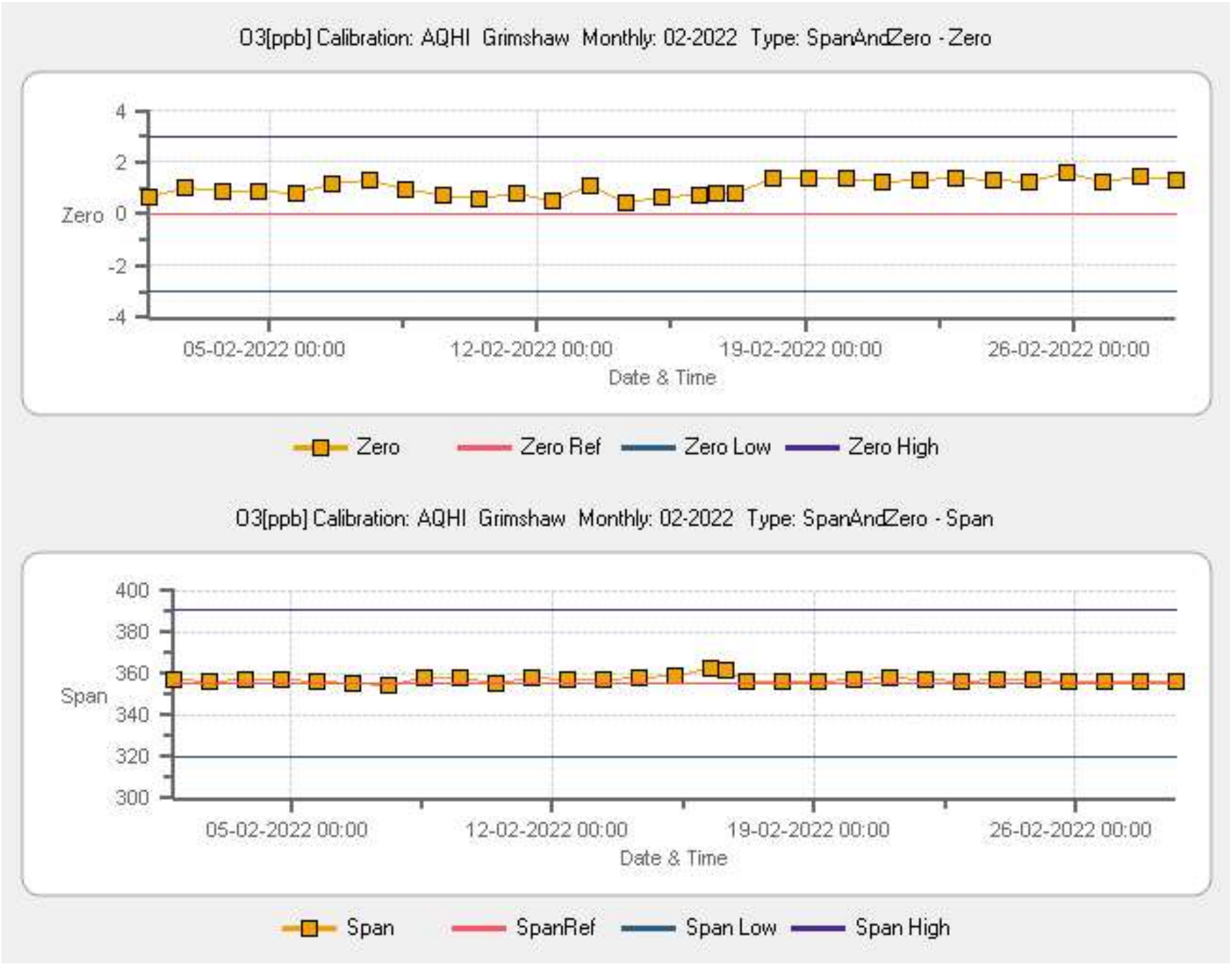


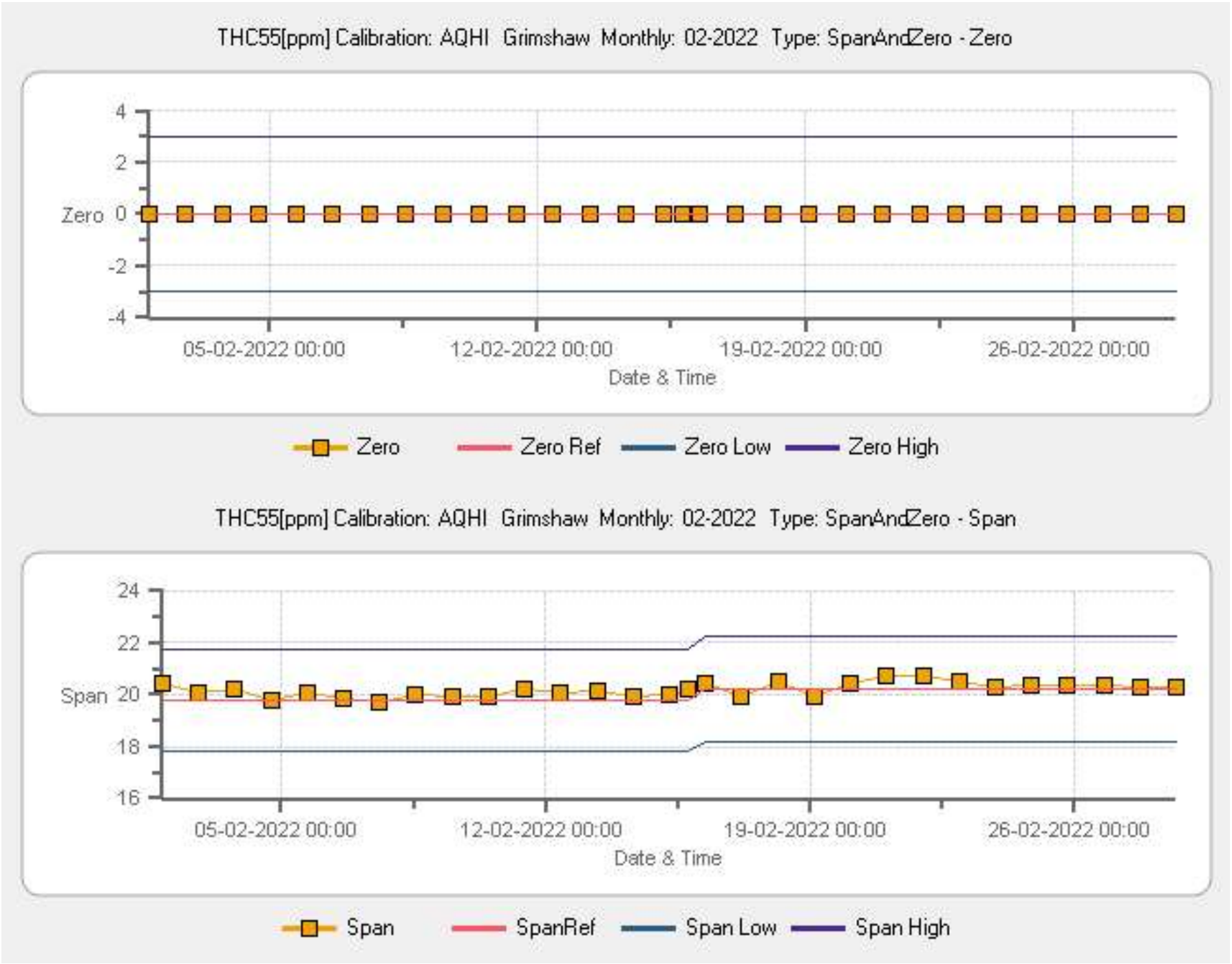
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Zero

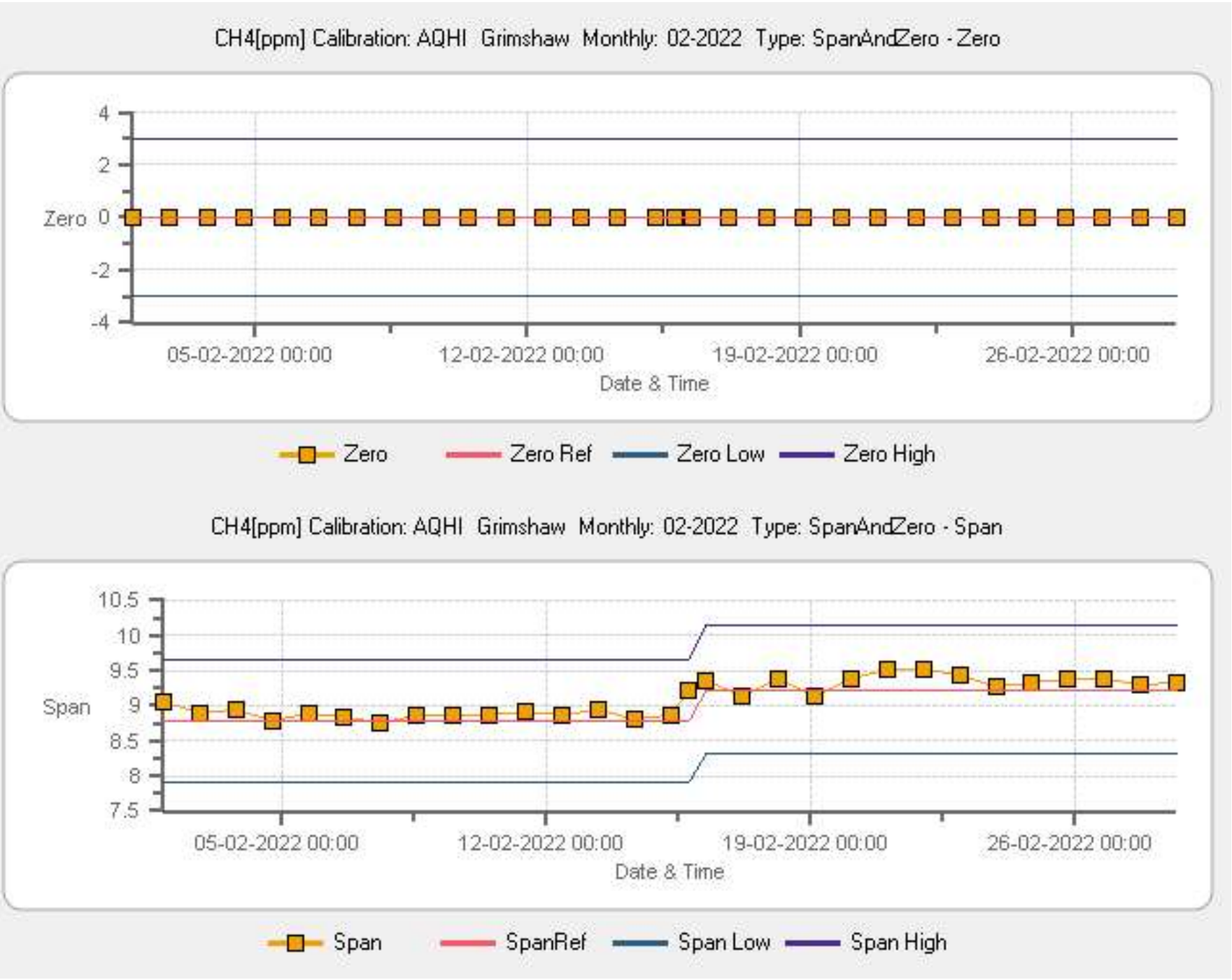


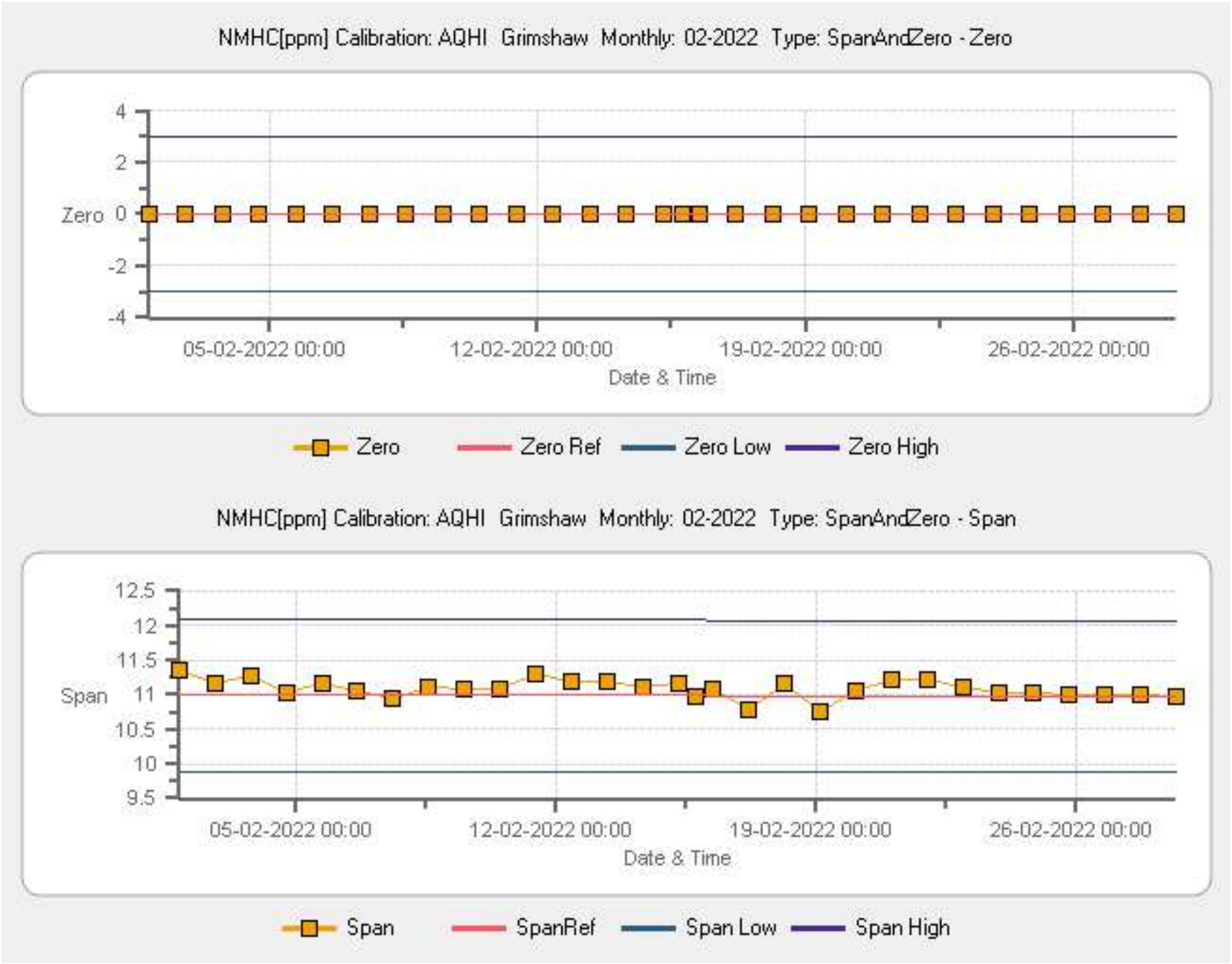
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Span




O3[ppb] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
O3[ppb] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Span
400
380
360
Span
340
320
300
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


THC55[ppm] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Span
24
22
Span 20
18
16
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


CH4[ppm] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Span
10.5
10
9.5
Span 9
8.5
8
7.5
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 02-2022 Type: SpanAndZero - Span
12.5
12
11.5
Span 11
10.5
10
9.5
05-02-2022 00:00
12-02-2022 00:00
19-02-2022 00:00
26-02-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	15-Feb-2022	PREVIOUS CALIBRATION DATE:	20-Jan-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.1
LOCATION:	Grimshaw	BAROMETRIC (mBar):	946
PURPOSE	Routine	START TIME (MST):	12:08
PERFORMED BY:	Limin Li	END TIME (MST):	15:29

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	537
INITIAL		FINAL	
BKG/OFFSET	23.6	BKG/OFFSET	23.6
COEF/SLOPE	0.951	COEF/SLOPE	0.926
Expected (reference) Value	275.8	Expected (reference) Value	261.8

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	20-Sep-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0000647	HIGH ID	n/a
CONC (ppm):	51.6	EXPIRY DATE	n/a
CYLINDER (psi):	950	LOW ID	n/a
EXPIRY DATE	24-Feb-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:

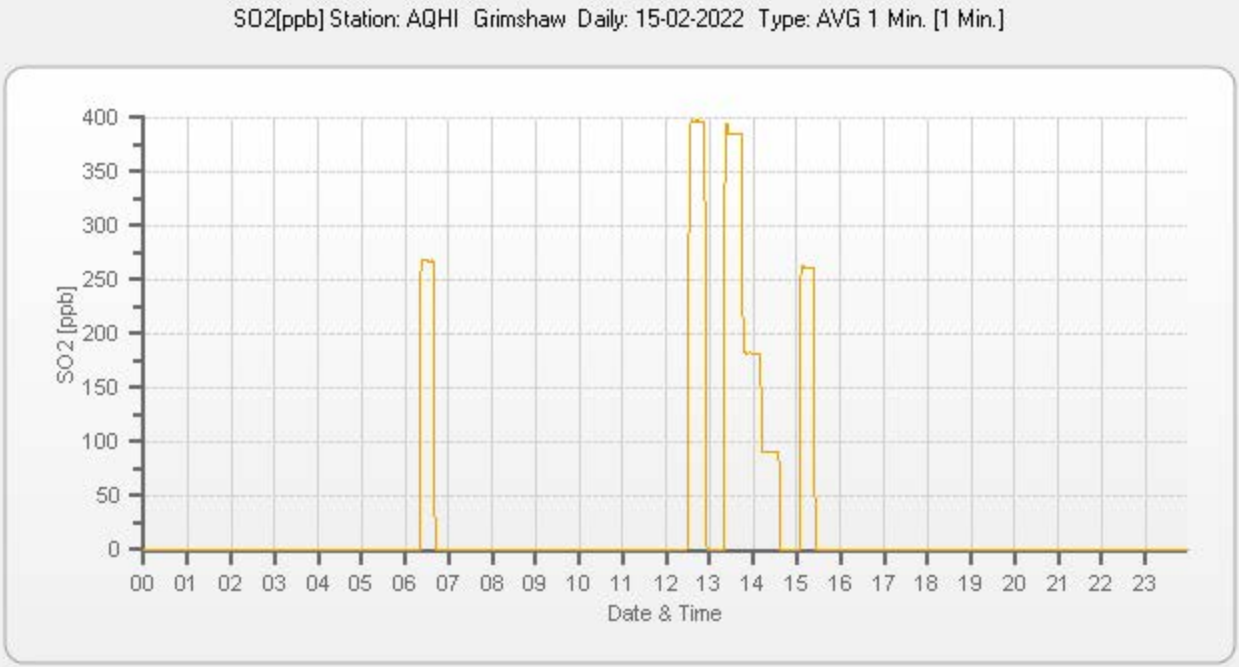
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
6000		6000	0.00	0	0		
5955	44.80	6000	385.28	397.4	385.3	0.970	1.000
5979	21.20	6000	182.32	n/a	182.2	n/a	1.001
5989	10.60	6000	91.16	n/a	90.8	n/a	1.004

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Sample filter changed.


SO2[ppb] Station: AQHI Grimshaw Daily: 15-02-2022 Type: AVG 1 Min. [1 Min.]
SO2 [ppb]
400
350
300
250
200
150
100
50
0
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
SO2 [ppb]

TRS Analyzer Calibration by Dilution

DATE:	15-Feb-2022	PREVIOUS CALIBRATION DATE:	20-Jan-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.1
LOCATION:	Grimshaw	BAROMETRIC (mBar):	946
PURPOSE	Removal/Shut-down	START TIME (MST):	12:14
PERFORMED BY:	Limin Li	END TIME (MST):	14:38

ANALYZER:

MAKE/MODEL	Teledyne T100U	RANGE	100 ppb
SERIAL #	132	FLOW (mL/min)	540
INITIAL		FINAL	
BKG/OFFSET	25.3	BKG/OFFSET	n/a
COEF/SLOPE	1.061	COEF/SLOPE	n/a
Expected (reference) Value	50.07	Expected (reference) Value	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	21-Sep-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1800	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

START TIME:	12:41	SO2 Conc (ppb)	380
END TIME:	13:00	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	-0.54	0		
7443	57.35	7500	78.00	71.94	78	1.076	1.000
7472	27.94	7500	38.00	34.81	37.98	1.075	1.000
7486	13.97	7500	19.00	17.23	19.06	1.069	0.997

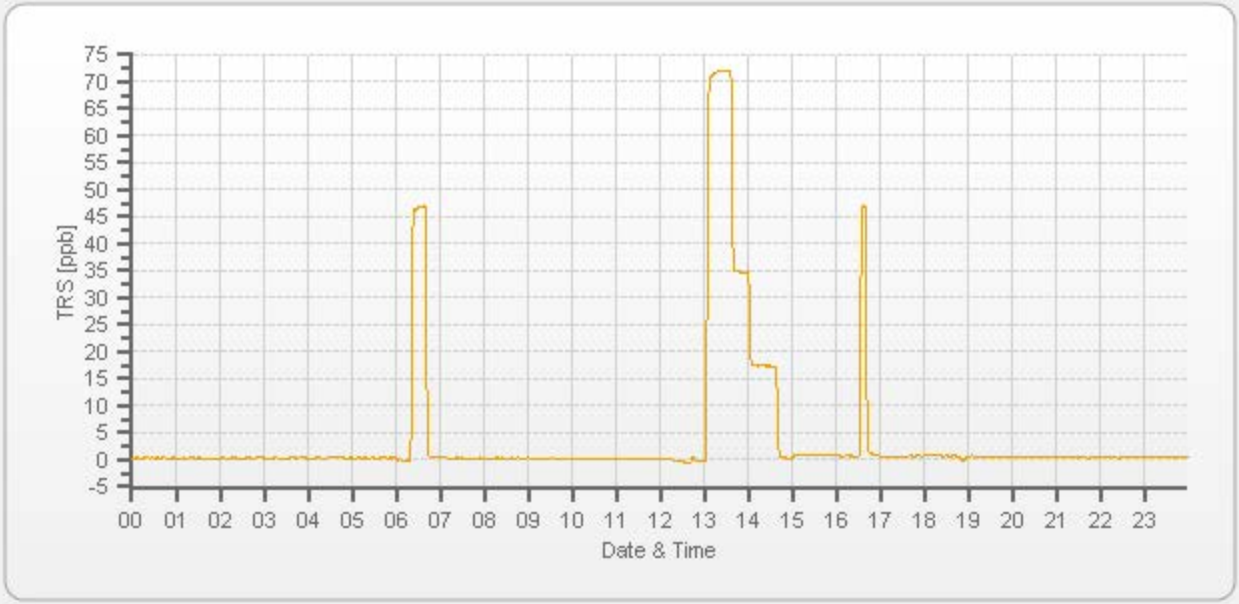
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.929	-0.5%

COMMENTS:

Shutdown calibration to remove BV Converter, CDNova CDN-101 #534

TRS[ppb] Station: AQHI Grimshaw Daily: 15-02-2022 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	16-Feb-2022	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3
LOCATION:	Grimshaw	BAROMETRIC (mBar):	951
PURPOSE	Install/Post-Repair	START TIME (MST):	08:00
PERFORMED BY:	Limin Li	END TIME (MST):	11:55

ANALYZER:

MAKE/MODEL	Teledyne T100U	RANGE	100 ppb
SERIAL #	132	FLOW (mL/min)	540
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	24.9
COEF/SLOPE	n/a	COEF/SLOPE	1.141
Expected (reference) Value	n/a	Expected (reference) Value	54.14

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	21-Sep-2021	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002272	HIGH ID	n/a
CONC (ppm):	10.20	EXPIRY DATE	n/a
CYLINDER (psi):	1800	LOW ID	n/a
EXPIRY DATE	14-Sep-2024	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:	08:38	SO2 Conc (ppb)	380
END TIME:	08:58	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	n/a	0		
7443	57.35	7500	78.00	n/a	78	n/a	1.000
7472	27.94	7500	38.00	n/a	37.94	n/a	1.002
7486	13.97	7500	19.00	n/a	19.09	n/a	0.995

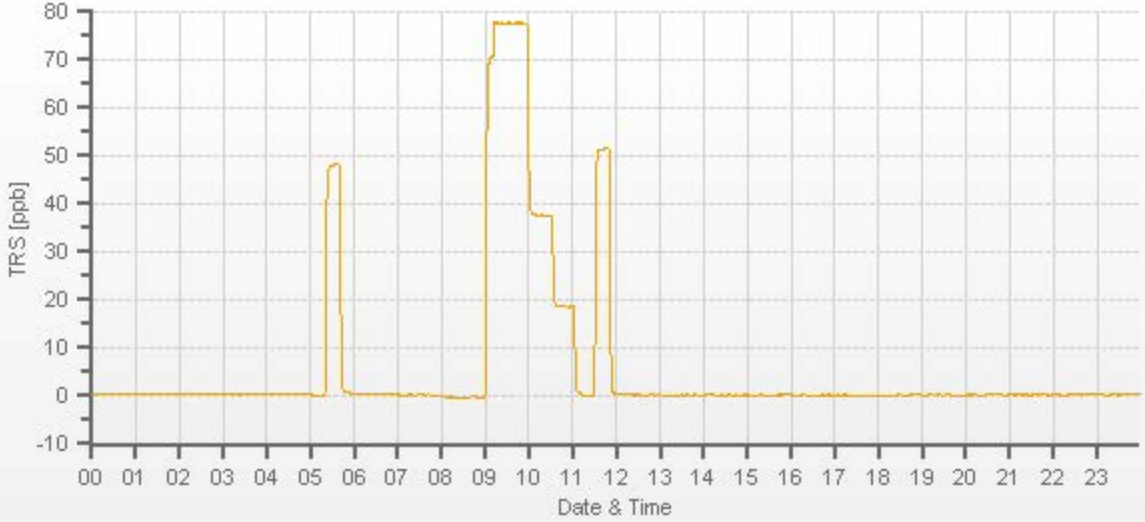
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Install PRAMP Converter, CDNova CDN-101 #530

TRS[ppb] Station: AQHI Grimshaw Daily: 16-02-2022 Type: AVG 1 Min. [1 Min.]



NOx Calibration by Dilution/Gas-Phase Titration

CALIBRATION:				ANALYZER:			
DATE:	15-Feb-2022	PREVIOUS CALIBRATION DATE:	19-Jan-2022	MAKE/MODEL:	Teledyne T200	PREVIOUS CF.	
CLIENT:	PRAMP	TEMPERATURE (°C):	22.1	SERIAL #:	837	NOx	0.999
LOCATION:	Grimshaw	BAROMETRIC (mBar):	945	FLOW (mL/min)	446	NO	0.999
PURPOSE	Removal/Shut-down	START TIME (MST):	12:52	RANGE (ppb)	500	NO2	0.999
PERFORMED BY:	Limin Li	END TIME (MST):	16:48	GPT FOR O3?		No	

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	API	CYLINDER ID:	EY 0000647		HIGH ID:	n/a
MODEL:	2010	MODEL:	701	NO/NOx (PPM):	50.9	51.1	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	950		LOW ID:	n/a
MFC CALIBRATION DATE:	20-Sep-2021	OXIDIZER ID:	n/a	EXPIRY DATE	24-Feb-2028		LOW EXPIRY:	n/a

CALIBRATION SETTINGS:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
BKG/OFFSET:	-0.4	0.8	n/a	BKG/OFFSET:	n/a	n/a	n/a
SLOPE/COEF/CE:	1.171	1.161	0.999	SLOPE/COEF/CE:	n/a	n/a	n/a

EXPECTED (REFERENCE) VALUE:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	323.1	2.4	320.8		n/a	n/a	n/a

CALIBRATION PARAMETERS:

POINT	NO TARGET (PPB)	NO2 TARGET (PPB)	NO2 RANGE	O3 POINT
HIGH	380	250	230-265	n/a
MID	180	125	115-150	n/a
LOW	90	45	40-55	n/a
EXTRA 1	n/a	n/a	n/a	n/a

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
6000		6000	0.0	0.0	0.0	0.2	1.0	0.8	n/a	n/a	n/a						
5955	44.80	6000	380.1	381.5	1.5	373.9	374.1	0.1	n/a	n/a	n/a	1.017	1.023		n/a	n/a	
5979	21.20	6000	179.8	180.6	0.7	177.4	177.4	0.0	n/a	n/a	n/a	1.015	1.024		n/a	n/a	
5989	10.60	6000	89.9	90.3	0.4	88.4	89.1	0.7	n/a	n/a	n/a	1.020	1.025		n/a	n/a	

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	37.30	5000	0	376.6	378.2	1.6				
AS-FOUND HIGH	37.30	5000	220	136.2	377.7	241.4	240.4	239.8	1.003	99.75%
ADJUSTED HIGH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**n/a**	**n/a**	n/a
MID	37.30	5000	125	240.2	377.9	137.8	136.4	136.2	1.001	99.85%
LOW	37.30	5000	44	327.0	378.2	51.2	49.6	49.6	1.000	100.00%
NO2 adjustment not required.									AVERAGE:	99.87%

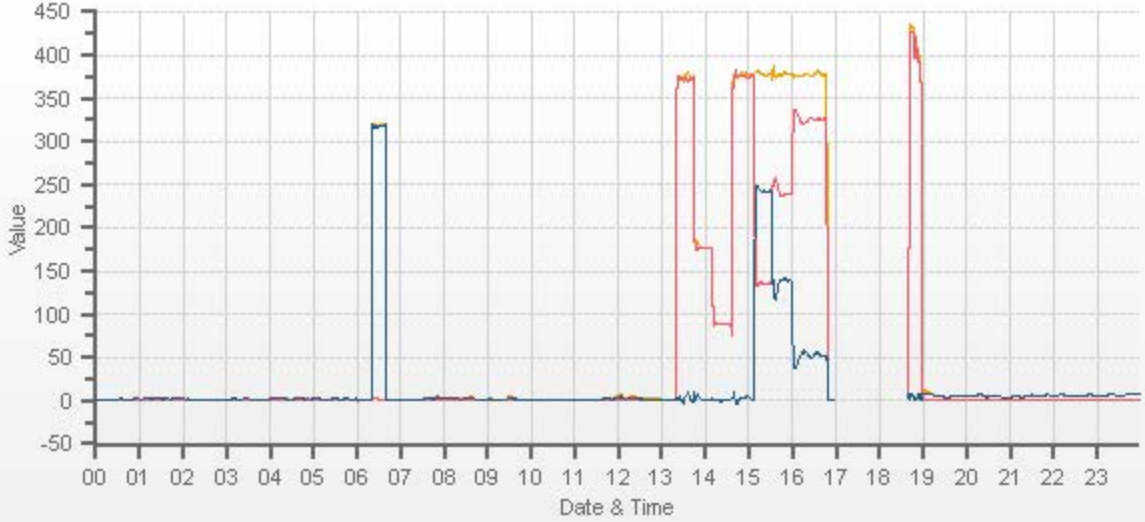
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
NO	1.000	0.984	0.04%
NOx	1.000	0.978	0.18%
NO2	1.000	0.997	0.04%

COMMENTS:

No issues.

Station: AQHI Grimshaw Daily: 15-02-2022 Type: AVG 1 Min. [1 Min.]



NOx Calibration by Dilution/Gas-Phase Titration

CALIBRATION:

				ANALYZER:			
DATE:	16-Feb-2022	PREVIOUS CALIBRATION DATE:	n/a	MAKE/MODEL:	Teledyne T200	PREVIOUS CF.	
CLIENT:	PRAMP	TEMPERATURE (°C):	22.3	SERIAL #:	837	NOx	n/a
LOCATION:	Grimshaw	BAROMETRIC (mBar):	951	FLOW (mL/min)	446	NO	n/a
PURPOSE	Install/Post-Repair	START TIME (MST):	08:00	RANGE (ppb)	500	NO2	n/a
PERFORMED BY:	Limin Li	END TIME (MST):	12:35	GPT FOR O3?		Yes	

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	SABIO	MAKE:	API	CYLINDER ID:	EY 0000647		HIGH ID:	n/a
MODEL:	2010	MODEL:	701	NO/NOx (PPM):	50.9	51.1	HIGH EXPIRY:	n/a
ID:	17200415	ID:	1105	CYLINDER (psi):	950		LOW ID:	n/a
MFC CALIBRATION DATE:	20-Sep-2021	OXIDIZER ID:	n/a	EXPIRY DATE	24-Feb-2028		LOW EXPIRY:	n/a

CALIBRATION SETTINGS:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
BKG/OFFSET:	n/a	n/a	n/a	BKG/OFFSET:	0	-1.2	n/a
SLOPE/COEF/CE:	n/a	n/a	n/a	SLOPE/COEF/CE:	1.028	1.03	0.999

EXPECTED (REFERENCE) VALUE:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	n/a	n/a	n/a		320.9	2.9	318.0

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
6000		6000	0.0	0.0	0.0	n/a	n/a	n/a	0.0	0.0	0.0						
5953	46.60	6000	395.3	396.9	1.6	n/a	n/a	n/a	395.4	396.8	1.4	n/a	n/a		1.000	1.000	
5979	21.20	6000	179.8	180.6	0.7	n/a	n/a	n/a	179.7	180.5	0.8	n/a	n/a		1.001	1.000	
5989	10.60	6000	89.9	90.3	0.4	n/a	n/a	n/a	89.9	89.4	-0.5	n/a	n/a		1.000	1.010	

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	5000	0	393.9	394.7	0.8				
AS-FOUND HIGH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**n/a**	**n/a**	n/a
ADJUSTED HIGH	38.80	5000	235	134.6	395.1	260.5	259.3	259.7	0.998	100.15%
MID	38.80	5000	138	238.7	394.5	155.8	155.2	155	1.001	99.87%
LOW	38.80	5000	48	338.6	393.4	54.8	55.3	54	1.024	97.65%
NO2 adjustment not required.									AVERAGE:	98.76%

LINEAR REGRESSION ANALYSIS:

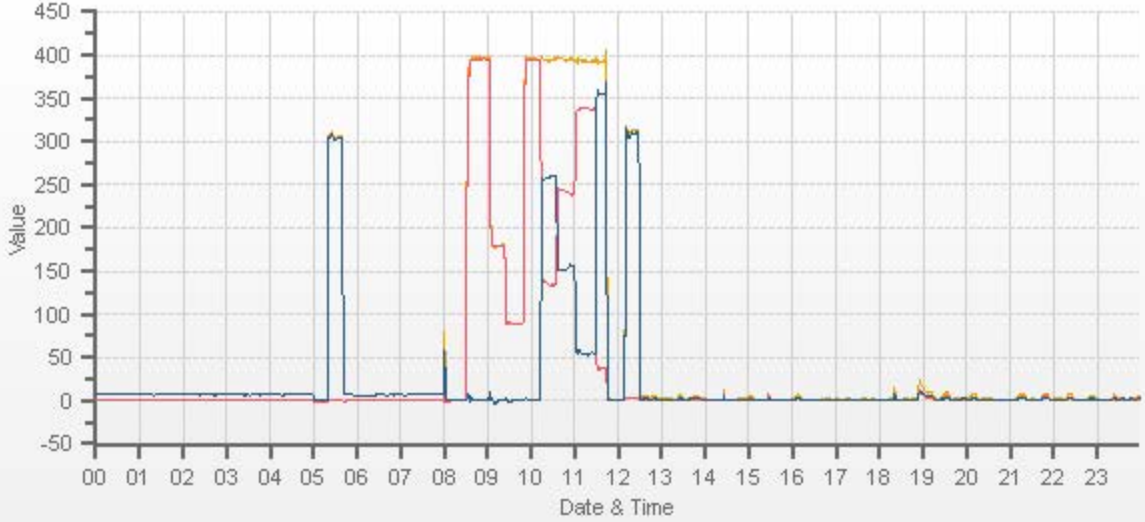
	CORRELATION	SLOPE	INTERCEPT
NO	1.000	1.000	-0.01%
NOx	1.000	1.001	-0.07%
NO2	1.000	1.011	-0.38%

COMMENTS:

O3:320PPB, NO:38.4, NOX:393.7 NO2:355.2

Change spare new pump. Annual maintenance (Clean sample valve, clean reaction cell, change o-rings and sinter filters, adjust HVPS).

Station: AQHI Grimshaw Daily: 16-02-2022 Type: AVG 1 Min. [1 Min.]



Ozone Calibration by Direct GPT

DATE:	16-Feb-2022	PREVIOUS CALIBRATION DATE:	19-Jan-2022
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.7
LOCATION:	Grimshaw	BAROMETRIC (mBar):	952
PURPOSE	Routine	START TIME (MST):	11:46
PERFORMED BY:	Limin Li	END TIME (MST):	16:00

ANALYZER:

MAKE/MODEL	API 400A	RANGE	500 ppb
SERIAL #	445	FLOW (mL/min)	827
INITIAL		FINAL	
BKG/OFFSET	-1.8	BKG/OFFSET	-2.1
COEF/SLOPE	0.977	COEF/SLOPE	0.977
Expected (reference) Value	355.3	Expected (reference) Value	355.3

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	SABIO	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	20-Sep-2021	OXIDIZER ID:	n/a
	CALIBRATION METHOD:	Direct GPT	
GPT DATE:	16-Feb-2022	GPT END TIME:	12:35

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		
4999		4999	0.0	-0.2	0.0		
5000		5000	355.5	355.6	355.4	0.999	1.000
5000		5000	155.2	n/a	153.5	n/a	1.011
5000		5000	55.3	n/a	54.5	n/a	1.015

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	-0.1%

COMMENTS:

Change sample filter.


O3[ppb] Station: AQHI Grimshaw Daily: 16-02-2022 Type: AVG 1 Min. [1 Min.]
400
350
300
250
200
150
100
50
0
-50
O3 [ppb]
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:	15-Feb-2022	PREVIOUS CALIBRATION DATE:	19-Jan-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	24.0
LOCATION:	Grimshaw	BAROMETRIC (mBar):	944
PURPOSE	Routine	START TIME (MST):	14:56
PERFORMED BY:	Chris Wesson	END TIME (MST):	18:48

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1191032505	1148
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.999	1.002	1.001

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Environics	MAKE:	API	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	6100	MODEL:	701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	5212	ID:	1105	CYLINDER (psi):	2100		LOW ID:	n/a
MFC CALIBRATION DATE:	21-Sep-2021	OXIDIZER ID:	111	EXPIRY DATE	18-Aug-2029		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	558.3
RANGE	12 - 16	6 - 8	2 - 4	THC as CH_4	1166.3

EXPECTED (REFERENCE) VALUE:

INITIAL	CH4	NMHC	THC	FINAL	CH4	NMHC	THC
	8.78	10.99	19.77		9.23	10.97	20.20

CALIBRATION:

FLOW RATE			CONCENTRATION (PPM)									CORRECTION FACTOR (CF.)					
(mL/min)			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	0.01	0.00	0.01	0.00	0.00	0.00						
3416	84.00	3500	14.59	13.40	27.99	14.16	13.62	27.78	14.59	13.44	28.03	1.031	0.984	1.008	1.000	0.997	0.999
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.33	6.65	13.98	n/a	n/a	n/a	0.995	1.007	1.001
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.65	3.34	6.99	n/a	n/a	n/a	0.999	1.003	1.001

LINEAR REGRESSION ANALYSIS:

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

Comments:

Do zero calibration.

Use Zero Chrom? **Yes**

Station: AQHI Grimshaw Daily: 15-02-2022 Type: AVG 1 Min. [1 Min.]



Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	February 16, 2022	January 19, 2022	**Weather Conditions:**	Cloudy/Overcast	
Company:	PRAMP		**Start Time (mst):**	11:36	
Station:	Grimshaw		**End Time (mst):**	13:18	
Parameter:	PM 2.5		**Performed By/Reviewer:**	Limin Li	

Instrument Data:

Make/Model:	Teledyne T640	**Serial Number:**	318
Owner:	PRAMP	**Alarms (detail in comments):**	No

Reference Standards/I.D./Expiry Date:

Flow Standard: DeltaCal DC1 S/N201588 / Nov 01, 2022 **Temperature:** FS 181341226 expires July 20, 2022

Digital Manometer: DeltaCal DC1 S/N201588 / Nov 01, 2022 **Pressure:** Brunton #05495 expires Jan 17, 2023

DIAGNOSTICS:

Ambient Pressure (mmHg)	713.2	Ambient Temp (°C)	-16.6	ASC Heater Duty (%)	0.0
Box Temp (°C)	25.0	Current PMT HV (V)	1540	LED Temp (°C)	33.59
P3 Value	46	PMT Setting (V)	1547	Pump PWM (%)	44
Sample Flow (L/min)	5.00	Sample RH (%RH)	4.1	Sample Temp (°C)	22.7

Item:	**As-found**		**As-left**		**Tolerance**
	Reference	**T640x**	**Reference**	**T640x**	
Zero Test (Leak Check)	PM10	0.0	n/a	0.0	0.0 to 0.2
	PM2.5	0.0	n/a	0.0	
Ambient Pressure (mmHg)	714.0	713.2	n/a	n/a	+/- 10 mm Hg
Ambient Temperature (°C)	-15.80	-16.2	n/a		+/- 2°C
Sample Flow (L/min)	5.22	5	5.00	5	+/-5% of T640x (e.g., 4.75 – 5.25 lpm)
Additional Monthly Maintenance :					***Completed***
				Inlet cleaned?	Yes
				Sample tubing inspected (inner and outer)?	Yes

Quarterly Audit/Calibration:

SpanDust™ Standard	**Peak at Channel**	**Lot No:**	**Expiry:**
	10.9	100128-050-033	06-01-2023

Item:	**Verification:**		**Calibration (if needed):**		**Tolerance**
	Reference	**T640x**	**Reference**	**T640x**	
Peak Channel	10.9	11.8	10.9	10.9	± 0.5
PMT Setting (V)	n/a	1547	n/a	1542	n/a
Peak Channel Counts:	n/a	502	n/a	643	n/a

Comments:

No issues.

Meteorological System Checklist

Date:	February 15, 2022		
Technician:	Limin Li		
Station:	PRAMP Grimshaw		
Unit:	**Make:**	**Model:**	**Serial #:**
Temperature Sensor:	Vaisala	HMP155	N2910506
Barometric Pressure Sensor:	MetOne	92	A2397
Relative Humidity Sensor:	Vaisala	HMP155	N2910506
Anemometer:	RM Young	05305AQ	174801

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	January 19, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (^{o}C):	-15.0
Station - Ambient Temperature (^{o}C):	-15.7
Temperature Difference (^{o}C):	0.7

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	January 19, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Jan 17, 2023	
Reference Pressure - Units/Reading:	millibar	944.2
Station Pressure - Units/Reading:	millibar	944.6
Pressure Tolerance +/- 15% of error:	803 - 1086	-0.04%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	January 19, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	61.00	
Station Hygrometer % RH- Reading:	63.60	
RH Tolerance +/- 15% of difference:	51.85 - 70.15	-4.3%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	December 1, 2021	Previous check date:	December 1, 2021
Wind Speed Observed (kph):	5~15	Wind Direction Observed:	E
Wind speed on Data Logger (kph):	10	Wind Direction on Data Logger:	E
		Wind Direction Pass/Fail?:	Pass

Comments

No issues

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Ferdinand Roy
Audit Location:	Cadotte Lake	**Reviewed By:**	Chris Wesson
Audit Date:	July 22, 2021	**Start/End Time (mst):**	12:47-15:52
Calibration Purpose:	routine annual	**Weather Conditions:**	Cloudy/Overcast

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:	June 18, 2020	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802 id# CA03309 expires June 7, 2023

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
			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	27	330	3.5	-0.3	1.9
60	300	56	300	3.9	0.1	2.0
90	270	87	269	3.5	1.1	2.3
120	240	118	238	2.4	2.5	2.5
150	210	149	207	1.5	3.5	2.5
180	180	178	177	1.8	2.8	2.3
210	150	208	148	2.1	2.5	2.3
240	120	239	117	1.1	2.9	2.0
270	90	270	86	-0.1	3.6	1.9
300	60	300	57	0.2	3.5	1.8
330	30	330	27	-0.1	3.0	1.6
355	0	353	0	1.8	0.1	1.0
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**1.9**

Comments:

Physical inspection completed - no issues.