Peace River Area Monitoring Program

APRIL 2022

Monthly Ambient Air Quality Monitoring Report

PRAMP-202204

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

May 26, 2022

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LIST OF ACRONYMS

AAAQOs	Alberta Ambient Air Quality Objectives
AEP	Alberta Environment and Parks
AMD	Air Monitoring Directive
AT	Ambient Temperature
BP	Barometric Pressure
CH4	Methane
EPEA	Environmental Protection and Enhancement Act
H2S	Hydrogen Sulphide
kph	kilometers per hour
mb	millibar
mm	millimeter
NMHC	Non-Methane Hydrocarbons
ppb	parts per billion
ppm	parts per million
PRAMP	Peace River Area Monitoring Program
RH	Relative Humidity
SO2	Sulphur Dioxide
ST	Station Temperature
THC	Total Hydrocarbons
TRS	Total Reduced Sulphur
VWD	Vector Wind Direction
VWS	Vector Wind Speed
WD	Wind Direction
WS	Wind Speed
°C	Degrees Celsius

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May 26, 2022

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

Enclosed is the April 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. This report is also submitted on behalf of the industrial member companies to satisfy the requirements of the facility operating approvals.

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
- Peace River Complex (PRC) Station

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	56.18657	-117.604994
1698	PRC	56.38257	-116.769283

Listing of Intermittent Monitoring Stations

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

Listing of PRAMP member with EPEA Facility Operating Approval

Company	Facility	Approval No.
Canadian Natural Upgrading Limited	Peace River Complex	1642-03-00

Monitoring Notes during the Month of April 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.
- WS/WD: The RM Young 05305L, s/n: 174795, wind system gave unstable wind direction readings on April 10. Following a successful shut-down calibration on April 11, the wind system

was removed, and the RM Young 05305AQ, s/n: 180340, wind system was installed. Both the wind speed and wind direction channels were back online after the installation calibration on April 12. Forty-three hours of downtime were recorded 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.

Reno Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.

PRC 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.
- TPX/RH: On April 19, the CRUL-owned MetOne 064-2, s/n: F6705, temperature sensor was replaced with a PRAMP-supplied Rotronic C2-S3, s/n: 28558318, temperature/relative humidity sensor. Reporting of humidity data will commence in the May 2022 monthly report.
- BP: The MetOne 092, s/n: B19577, barometric pressure sensor was installed on April 19. Reporting of barometric pressure data will commence in the May 2022 monthly report.

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.
- No major operational issues were identified this month.

VOCs Canister Sampling Program

- The canister sampling program collects a 1-hour sample of air when the continuously measured non-methane hydrocarbon (NMHC) concentration reaches a specified trigger point. The current trigger 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 was no canister event recorded in April.

Revisions to Alberta's Ambient Air Quality Data Warehouse

To respond the results of the AEP 2021 annual data validation, the TRS hourly data collected at the AQHI- Cadotte Lake station (the previous portable air monitoring station location) in October 2021 was reviewed and revised. The revised data was submitted to ETS on May 20. ETS Request #: R4415495.

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

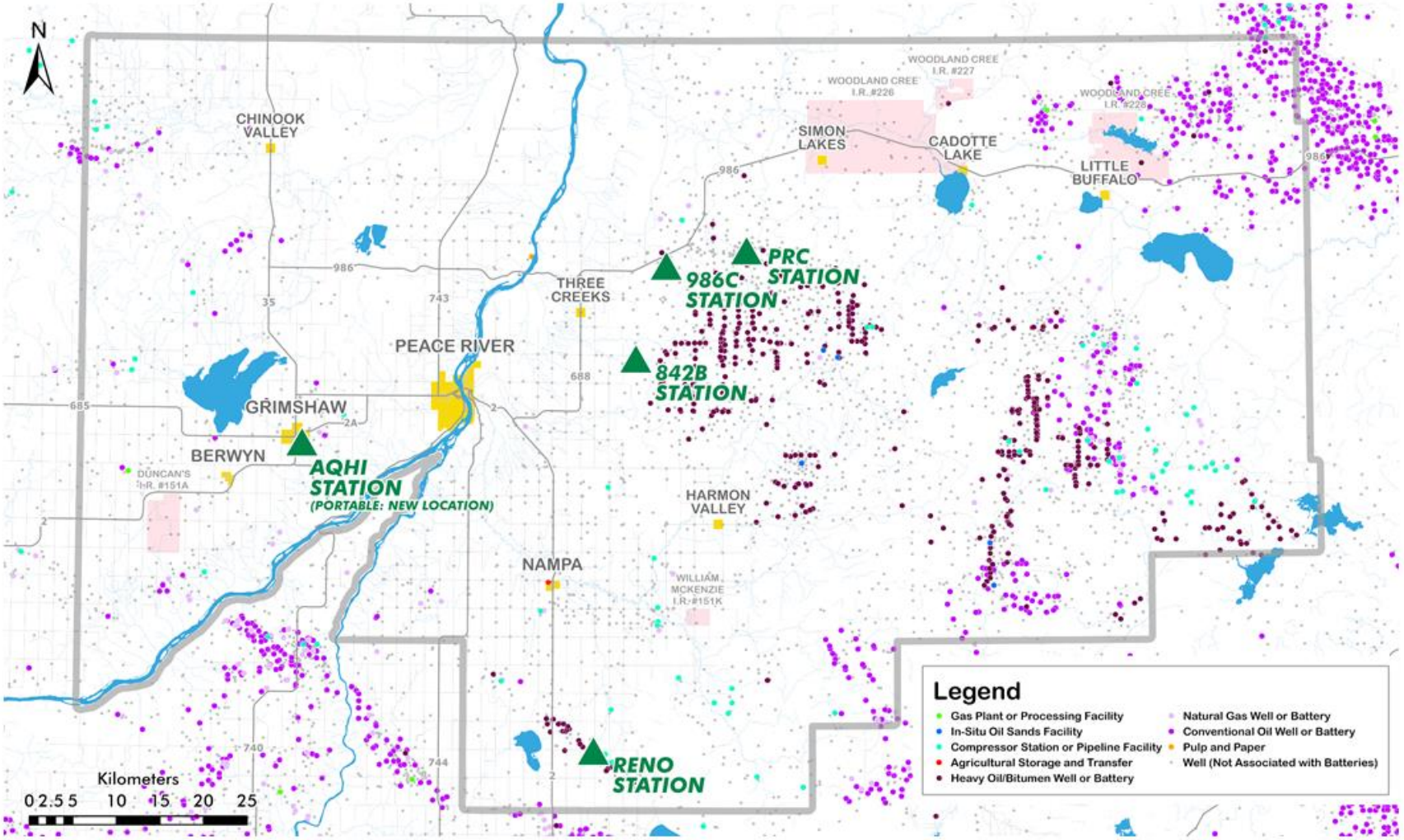
This report was reviewed by Michael Bisaga in accordance with Chapter 9 of the Air Monitoring Directive (AMD 2016).

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

May 26, 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 April 7. • No operational issues were identified this month.			
TRS	**Thermo / 43iQTL**	**1191833341**	
• The analyzer failed the low point calibration check on April 7. The analyzer was reset to the as-found point check status, and a shut-down calibration was proceeded. Following the shut down calibration, the scrubber beads were replaced following a successful post-repair calibration. Five hours of downtime were recorded due to this event. • No operational issues were identified this month.			
THC/CH4/NMHC	**Thermo / 55i**	**1193585652**	
• A successful monthly calibration was performed on April 7. • Due to apparent high methane concentrations continuing being recorded, a successful repeat multi-point calibration was completed on April 21. The analyzer passed the calibration requirements. Considering there are no new sources around the station to cause elevated methane concentrations, further actions to confirm the methane concentrations have been planned. The analyzer will be replaced as soon as a spare analyzer becomes available in late May or early June.			
Relative Humidity (RH)	**Rotronic / HC2-S3**	**61116376**	
• The RH sensor was checked on April 7. The sensor passed the check requirements. • The channel was put offline on April 12 at hour 9 and 10 while the wind system was being replaced.			

Parameter	Make / Model	Serial Number	
Barometric Pressure (BP)	**MetOne / 092**	**Y23358**	
• The BP sensor was checked on April 7. The sensor passed the check requirements. • The channel was put offline on April 12 at hour 9 and 10 while the wind system was being replaced.			
Ambient Temperature (AT)	**Rotronic / HC2-S3**	**61116376**	
• The AT sensor was checked on April 7. The sensor passed the check requirements. • The channel was put offline on April 12 at hour 9 and 10 while the wind system was being replaced.			
Station Temperature (ST)	**COMET**	**18961918**	
• The ST sensor was checked on April 7. The sensor passed the check requirements. • No operational issues were identified this month.			
Precipitation (Precip)	**RM Young 52202**	**TB 16325**	
• The precipitation gauge was checked on April 7. The sensor passed the check requirements. • No operational issues were identified this month.			
Wind Speed/Wind Direction (WS/ WD)	**RM Young 05305L / 05305AQ**	**174795 / 180340**	
• Wind direction data contained in this report represents where the wind is coming from. • The annual wind system calibration was completed on April 12, 2022. • The anemometer sensor RM Young 05305L, s/n: 174795, was checked on April 7. The sensor passed the check requirements. • The wind direction output was unstable, starting April 10 hour 13. Following a successful shut-down calibration on the RM Young 05305L, s/n: 174795 on April 11, the wind system was removed, and the RM Young 05305AQ, s/n: 180340, wind system was installed. Both the wind speed and wind direction channels were back online after the installation calibration on April 12. Data recorded between April 10 hour 13 and April 11 hour 16 were discarded as data quality were compromised. Forty-three hours of downtime were recorded due to this event.			

Monitored Data Summary for 986c Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	1	April 14 at hour 8	7.3	E	0.1	April 14	100.0	95.1
TRS (ppb)	-	-	-	-	-	-	0.08	0.00	0.36	April 6 at hour 1	10.8	WSW	0.21	April 5	99.3	94.3
THC (ppm)	-	-	-	-	-	-	2.23	2.09	2.50	April 8 at hour 5	7.5	SSE	2.35	April 12	99.2	94.6
CH4 (ppm)	-	-	-	-	-	-	2.23	2.09	2.50	April 8 at hour 5	7.5	SSE	2.35	April 12	99.2	94.6
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	April 1 at hour 0	6.7	NNE	0.00	April 1	99.2	94.6
RH (%)	-	-	-	-	-	-	61.8	21	99	April 28 at hour 2	5.5	SW	97.7	April 28	99.7	99.7
BP (millibar)	-	-	-	-	-	-	941	914	960	April 12 at hour 11	C	C	958	April 12	99.7	99.7
Ext. Temp. (°C)	-	-	-	-	-	-	1.4	-14.3	16.8	April 24 at hour 16	25	SE	11.4	April 25	99.7	99.7
Stn. Temp. (°C)	-	-	-	-	-	-	23.3	22.3	24.7	April 1 at hour 15	5.8	S	23.8	April 2	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	14.0	0.0	1.5	April 27 at hour 8	9.1	NNE	7.3	April 27	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	2.0	0.1	31.0	April 18 at hour 22	31	ENE	19.5	April 24	94.0	93.5
WDV (sector)	-	-	-	-	-	-	42 (NE)	-	-	-	-	-	-	-	94.0	93.5

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

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

Alberta Ambient Air Quality Objectives (AAAQOs) 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 successful monthly calibration was performed on April 6. • No operational issues were identified this month.			
TRS	**Thermo 43iQTL**	**1200736630**	
• A successful monthly calibration was performed on April 6. • The analyzer failed the daily span check on April 12. A repeat zero-span check was completed on April 14. The check results met the calibration requirements. No further actions were required. One hour of downtime was recorded due to the additional quality check.			
THC/CH4/NMHC	**Thermo / 55i**	**1501663728**	
• A successful monthly calibration was performed on April 6. • No operational issues were identified this month. • A repeat zero-span check was initiated after the span gas cylinder replacement on April 21 to obtain a new expected span value. One hour of downtime was recorded due to the additional quality check.			
Relative Humidity (RH)	**Rotronic / HC2A-S3**	**20370767**	
• The RH sensor was checked on April 6. The sensor passed the check requirements. • No operational issues were identified this month.			
Barometric Pressure (BP)	**MetOne / 092**	**Y23362**	
• The BP sensor was checked on April 6. The sensor passed the check requirements. • No operational issues were identified this month.			

Parameter	Make / Model	Serial Number	
Ambient Temperature (AT)	**Rotronic / HC2A-S3**	**20370767**	
• The temperature sensor was checked on April 6. The sensor passed the check requirements. • No operational issues were identified this month.			
Station Temperature (ST)	**COMET**	**20790297**	
• No operational issues were identified this month.			
Precipitation (Precip)	**RM Young / 52202**	**TB 15878**	
• The precipitation gauge was checked on April 6. The sensor passed the check requirements. • No operational issues were identified this month.			
Wind Speed/Wind Direction (WS/ WD)	**RM Young / 05305AQ**	**174802**	
• Wind direction data contained in this report represents where the wind is coming from. • The annual wind system calibration was completed on July 4, 2021. • The anemometer sensors were checked on April 6. The sensor passed the check requirements. • No operational issues were identified this month.			

Monitored Data Summary for 842b Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	1	April 4 at hour 18	5.5	NW	0.1	April 19	100.0	95.0
TRS (ppb)	-	-	-	-	-	-	0.43	0.10	0.90	April 14 at hour 7	5	ENE	0.80	April 13	99.9	94.7
THC (ppm)	-	-	-	-	-	-	1.90	1.84	2.03	April 16 at hour 2	3.4	ENE	1.93	April 16	99.9	94.8
CH4 (ppm)	-	-	-	-	-	-	1.90	1.84	2.03	April 16 at hour 2	3.4	ENE	1.93	April 16	99.9	94.8
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	April 1 at hour 0	6.1	NNE	0.00	April 1	99.9	94.8
RH (%)	-	-	-	-	-	-	65.0	22	100	April 9 at hour 0	14.9	WNW	100.0	April 28	100.0	100.0
BP (millibar)	-	-	-	-	-	-	940	912	959	April 13 at hour 1	5.5	NE	957	April 12	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	1.2	-15.8	17.0	April 24 at hour 16	16.6	SE	11.4	April 25	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.3	20.8	24.0	April 6 at hour 11	9.2	W	22.7	April 22	100.0	100.0
Precipitation (mm)*	-	-	-	-	-	-	20.4	0.0	1.8	April 27 at hour 9	7.9	NNE	9.5	April 27	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	1.6	0.3	23.5	April 8 at hour 15	23.5	W	16.9	April 9	100.0	100.0
WDV (sector)	-	-	-	-	-	-	0 (N)	-	-	-	-	-	-	-	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 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 April 5. • Due to collection issues on the datalogger, hourly data collected on April 2 hour 2 to April 3 hour 8 and April 4 hour 19 to April 5 hour 7 were lost. Datalogger was reset to restore functionality, and a zero-span check was initiated to confirm the analyzer's functionality on April 3 hour 10. Thirty-eight hours of downtime were recorded. The channel was put offline on April 5 hour 17 while the datalogger was being tested. The UPS power supply was changed and the station network was reconfigured to correct data loss issues. One hour of downtime was recorded due to this maintenance.			
TRS	**Thermo 43iQTL**	**12101910504**	
• A successful monthly calibration was performed on April 5. • Due to collection issues on the datalogger, hourly data collected on April 2 hour 2 to April 3 hour 8 and April 4 hour 19 to April 5 hour 7 were lost. Datalogger was reset to restore functionality, and a zero-span check was initiated to confirm the analyzer's functionality on April 3 hour 10. Thirty-eight hours of downtime were recorded. The channel was put offline on April 5 hour 17 while the datalogger was being tested. The UPS power supply was changed and the station network was reconfigured to correct data loss issues. One hour of downtime was recorded due to this maintenance. • A repeat zero-span check was initiated on April 7 hour 9 and April 30 hour 6 to investigate the span drift. The checks passed the calibration requirements. No further actions were required. Two hours of downtime were recorded due to the additional quality checks.			
THC/CH4/NMHC	**Thermo / 55i**	**12101910497**	
• A successful monthly calibration was performed on April 5. • Due to collection issues on the datalogger, hourly data collected on April 2 hour 2 to April 3 hour 8, April 4 hour 19 to April 5 hour 7, and April 5 hour 9 and hour 10 were lost. Datalogger was reset to restore functionality, and a zero-span check was initiated to confirm the analyzer's functionality on April 3 hour 10. Forty hours of downtime were recorded. The channel was put offline on April 5 hour 17 while the datalogger was being tested. The UPS power supply was changed and the station network was reconfigured to correct data loss issues. One hour of downtime was recorded due to this maintenance. • Elevated CH4 and NMHC concentrations were recorded on April 8 between hour 0 and hour 5. Investigation is ongoing to try to identify sources that could contribute this event. Findings will be included in the May monthly report.			

Parameter	Make / Model	Serial Number	
Relative Humidity (RH)	**RM Young / 43172VC**	**60837897**	
• The RH sensor was checked on April 5. The sensor passed the check requirements. • Due to collection issues on the datalogger, hourly data collected on April 2 hour 2 to April 3 hour 8, April 4 hour 19 to April 5 hour 7, and April 5 hour 9 and hour 10 were lost. Datalogger was reset to restore functionality. Forty hours of downtime were recorded. The channel was put offline on April 5 hour 17 while the datalogger was being tested. The UPS power supply was changed and the station network was reconfigured to correct data loss issues. One hour of downtime was recorded due to this maintenance.			
Barometric Pressure (BP)	**MetOne / 092**	**K12864**	
• The BP sensor was checked on April 5. The sensor passed the check requirements. • Due to collection issues on the datalogger, hourly data collected on April 2 hour 2 to April 3 hour 8, April 4 hour 19 to April 5 hour 7, and April 5 hour 9 and hour 10 were lost. Datalogger was reset to restore functionality. Forty hours of downtime were recorded. The channel was put offline on April 5 hour 17 while the datalogger was being tested. The UPS power supply was changed and the station network was reconfigured to correct data loss issues. One hour of downtime was recorded due to this maintenance.			
Ambient Temperature (AT)	**RM Young / 43172VC**	**60837897**	
• The AT sensor was checked on April 5. The sensor passed the check requirements. • No operational issues were identified this month. • Due to collection issues on the datalogger, hourly data collected on April 2 hour 2 to April 3 hour 8, April 4 hour 19 to April 5 hour 7, and April 5 hour 9 and hour 10 were lost. Datalogger was reset to restore functionality. Forty hours of downtime were recorded. The channel was put offline on April 5 hour 17 while the datalogger was being tested. The UPS power supply was changed and the station network was reconfigured to correct data loss issues. One hour of downtime was recorded due to this maintenance.			
Station Temperature (ST)	**Bureau Veritas Canada**	**N/A**	
• No operational issues were identified this month. • Due to collection issues on the datalogger, hourly data collected on April 2 hour 2 to April 3 hour 8, April 4 hour 19 to April 5 hour 7, and April 5 hour 9 and hour 10 were lost. Datalogger was reset to restore functionality. Forty hours of downtime were recorded. The channel was put offline on April 5 hour 17 while the datalogger was being tested. The UPS power supply was changed and the station network was reconfigured to correct data loss issues. One hour of downtime was recorded due to this maintenance.			

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

- The precipitation gauge was checked on April 8. The sensor passed the check requirements.
- Due to collection issues on the datalogger, hourly data collected on April 2 hour 2 to April 3 hour 8, April 4 hour 19 to April 5 hour 7, and April 5 hour 9 and hour 10 were lost. Datalogger was reset to restore functionality. Forty hours of downtime were recorded. The channel was put offline on April 5 hour 17 while the datalogger was being tested. The UPS power supply was changed and the station network was reconfigured to correct data loss issues. One hour of downtime was recorded due to this maintenance.

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 April 5. The sensor passed the check requirements.
- Due to collection issues on the datalogger, hourly data collected on April 2 hour 2 to April 3 hour 8, April 4 hour 19 to April 5 hour 7, and April 5 hour 9 and hour 10 were lost. Datalogger was reset to restore functionality. Forty hours of downtime were recorded. The channel was put offline on April 5 hour 17 while the datalogger was being tested. The UPS power supply was changed and the station network was reconfigured to correct data loss issues. One hour of downtime was recorded due to this maintenance.

Monitored Data Summary for Reno Station

Parameter	Objectives/Guidelines			Exceedances			Monthly Avg.	Min. 1-hr	Max. 1-hr	Date/Time	VWS (km/hr)	VWD (sector)	Max. 24-hr	Date	Operational Uptime (%)	Valid Data (%)
	1-hr	24-hr	30-day	1-hr	24-hr	30-day										
SO2 (ppb)	172	48	11	0	0	0	0.0	0	1	April 14 at hour 7	6.7	E	0.1	April 14	94.6	89.8
TRS (ppb)	-	-	-	-	-	-	0.15	0.01	0.35	April 25 at hour 20	2.7	SSE	0.21	April 28	94.3	89.3
THC (ppm)	-	-	-	-	-	-	2.03	1.89	9.13	April 8 at hour 2	4.3	S	2.63	April 8	94.3	89.6
CH4 (ppm)	-	-	-	-	-	-	2.03	1.89	9.12	April 8 at hour 2	4.3	S	2.63	April 8	94.3	89.6
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.01	April 8 at hour 2	4.3	S	0.00	April 8	94.3	89.6
RH (%)	-	-	-	-	-	-	63.0	20	100	April 1 at hour 0	0	N	99.9	April 28	94.3	94.3
BP (millibar)	-	-	-	-	-	-	939	910	957	April 13 at hour 5	3.7	NE	955	April 12	94.3	94.3
Ext. Temp. (°C)	-	-	-	-	-	-	1.0	-13.6	16.6	April 24 at hour 14	11.3	SE	10.9	April 24	94.3	94.3
Stn. Temp. (°C)	-	-	-	-	-	-	23.1	21.3	24.7	April 24 at hour 19	13.2	ESE	23.6	April 26	94.3	94.3
Precipitation (mm)*	-	-	-	-	-	-	32.6	0.0	1.7	April 27 at hour 8	7	N	16.0	April 27	94.3	94.3
WSV (km/hr)	-	-	-	-	-	-	1.7	0.0	25.7	April 18 at hour 22	25.7	E	13.6	April 18	94.3	94.3
WDV (sector)	-	-	-	-	-	-	37 (NE)	-	-	-	-	-	-	-	94.3	94.3

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.

PRC Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO2	**Thermo 43i**	**1034746225**	
• A successful monthly calibration was performed on April 19. • No operational issues were identified this month.			
H2S	**Thermo 450i**	**1308857354**	
• A successful monthly calibration was performed on April 19. • No operational issues were identified this month.			
TRS	**Thermo 43i-TLE**	**1162460022**	
• A successful monthly calibration was performed on April 19. • No operational issues were identified this month.			
THC/CH4/NMHC	**Thermo / 55i**	**1022143392**	
• A successful monthly calibration was performed on April 19. • No operational issues were identified this month.			
Ambient Temperature (AT)	**MetOne 064-2 / Rotronic C2-S3**	**F6705 / 28558318**	
• The AT sensor was checked on April 19. The sensor passed the check requirements. • No operational issues were identified this month. • On April 19, the CRUL-owned MetOne 064-2, s/n: F6705, temperature sensor was replaced with a PRAMP-supplied Rotronic C2-S3, s/n: 28558318, temperature/relative humidity sensor. The humidity data will start being included in the May monthly report.			

Parameter	Make / Model	Serial Number	
Barometric Pressure (BP)	**MetOne 092**	**B19577**	
• The MetOne 092, s/n: B19577, barometric pressure sensor was installed on April 19. The pressure data will start being included in the May monthly report.			
Station Temperature (ST)	**Canadian Natural**	**N/A**	
• No operational issues were identified this month.			
Wind Speed/Wind Direction (WS/ WD)	**RM Young / 05305VK**	**129612**	
• Wind direction data contained in this report represents where the wind is coming from. • The annual wind system calibration was completed on June 16, 2021. • Both the wind speed and wind direction channels were put offline while the AT/RH sensor and the BP sensor were installed on April 19. Three hours of downtime were recorded due to this event.			

Monitored Data Summary for Peace River Complex (PRC) 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	April 3 at hour 1	8.7	S	0.3	April 19	100.0	95.1
H2S (ppb)	10	3	-	0	0	-	0.0	0	0	April 1 at hour 0	8.5	N	0.0	April 1	100.0	95.1
TRS (ppb)	-	-	-	-	-	-	0.0	0	1	April 26 at hour 4	4.1	S	0.0	April 26	100.0	95.1
THC (ppm)	-	-	-	-	-	-	1.97	1.88	2.12	April 22 at hour 4	6.1	S	2.05	April 22	100.0	95.2
CH4 (ppm)	-	-	-	-	-	-	1.97	1.88	2.12	April 22 at hour 4	6.1	S	2.05	April 22	100.0	95.2
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	April 1 at hour 0	8.5	N	0.00	April 1	100.0	95.2
Ext. Temp. (°C)	-	-	-	-	-	-	0.9	-16.7	16.5	April 24 at hour 14	16	SE	10.9	April 25	99.6	99.6
Stn. Temp. (°C)	-	-	-	-	-	-	21.3	16.5	23.8	April 26 at hour 0	10	ESE	23.4	April 26	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	1.8	0.4	28.4	April 8 at hour 13	28.4	W	16.4	April 10	99.6	99.6
WDV (sector)	-	-	-	-	-	-	41 (NE)	-	-	-	-	-	-	-	99.6	99.6

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 Peace River Complex (PRC) 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**	
• A successful monthly calibration was performed on April 20. • No operational issues were identified this month.			
TRS	**Teledyne / T100U**	**132**	
• A successful monthly calibration was performed on April 20. • No operational issues were identified this month.			
NOx/NO/NO2	**Teledyne / T200**	**837**	
• A successful monthly calibration was performed on April 20. • No operational issues were identified this month.			
O3	**API / 400A**	**445**	
• A successful monthly calibration was performed on April 20. • No operational issues were identified this month.			
THC/CH4/NMHC	**Thermo / 55i**	**1191032505**	
• A successful monthly calibration was performed on April 20. • No operational issues were identified this month.			
PM 2.5	**Teledyne / T640**	**318**	
• A successful monthly calibration was performed on April 20. • No operational issues were identified this month.			

Parameter	Make / Model	Serial Number	
Relative Humidity (RH)	**Vaisala / HMP155**	**N2910506**	
• The sensor was checked on April 20. The sensor passed the check requirements. • No operational issues were identified this month.			
Barometric Pressure (BP)	**MetOne / 092**	**A2397**	
• The sensor was checked on April 20. The sensor passed the check requirements. • No operational issues were identified this month.			
Ambient Temperature (AT)	**Vaisala / HMP155**	**N2910506**	
• The sensor was checked on April 20. The sensor passed the check requirements. • No operational issues were identified this month.			
Station Temperature (ST)	**COMET**	**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 April 20. 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	April 16 at hour 6	3.1	NNE	0.1	April 16	100.0	95.1
TRS (ppb)	-	-	-	-	-	-	0.37	0.00	1.19	April 6 at hour 1	14.2	W	0.50	April 8	100.0	95.1
NOx (ppb)	-	-	-	-	-	-	2.8	0	20	April 16 at hour 0	3.7	N	6.6	April 16	100.0	94.7
NO (ppb)	-	-	-	-	-	-	0.4	0	3	April 6 at hour 20	3.5	SW	0.6	April 13	100.0	94.7
NO2 (ppb)	159	-	-	0	-	-	2.5	0	19	April 16 at hour 0	3.7	N	6.1	April 16	100.0	94.7
O3 (ppb)	76	-	-	0	-	-	34.7	6	52	April 16 at hour 16	7	ENE	43.2	April 4	100.0	95.0
THC (ppm)	-	-	-	-	-	-	2.04	1.98	2.50	April 16 at hour 4	3	NNE	2.13	April 16	100.0	95.0
CH4 (ppm)	-	-	-	-	-	-	2.04	1.98	2.38	April 16 at hour 4	3	NNE	2.11	April 16	100.0	95.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.18	April 3 at hour 2	1.1	SSE	0.03	April 3	100.0	95.0
PM2.5 (µg/m3)	80	30	-	0	0	-	3.7	0.0	17.0	April 7 at hour 19	7.2	NE	6.5	April 21	100.0	99.7
RH (%)	-	-	-	-	-	-	64.0	24	98	April 28 at hour 3	3.1	NW	95.3	April 28	100.0	100.0
BP (millibar)	-	-	-	-	-	-	942	914	961	April 12 at hour 9	13.5	NNE	960	April 12	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	1.3	-13.0	17.5	April 25 at hour 15	15.4	SE	10.7	April 24	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	21.9	20.6	23.5	April 8 at hour 10	4.8	SSE	22.9	April 25	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	9.2	0.3	26.6	April 24 at hour 12	26.6	SSE	19.4	April 9	100.0	100.0
WDV (sector)	-	-	-	-	-	-	13 (NNE)	-	-	-	-	-	-	-	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 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 - April 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

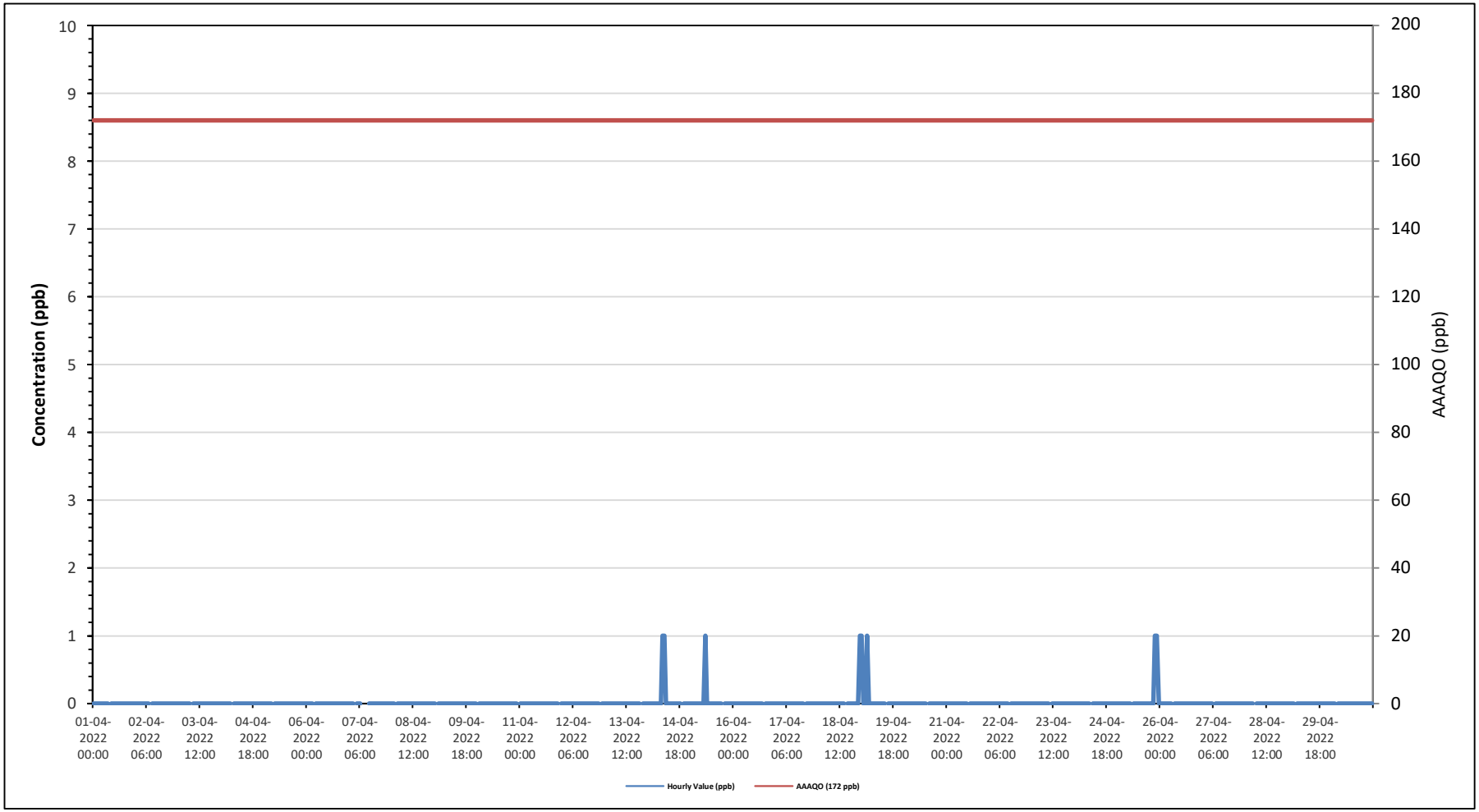
Maximum Hourly Value:	1	ppb	on April 14 at hour 8	Hours in Service:	720
Maximum Daily Value:	0.1	ppb	on April 14	Hours of Data:	685
Minimum Hourly Value:	0	ppb	on April 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on April 1	Hours of Calibration:	35
Monthly Average:	0.0	ppb		Operational Uptime:	100.0

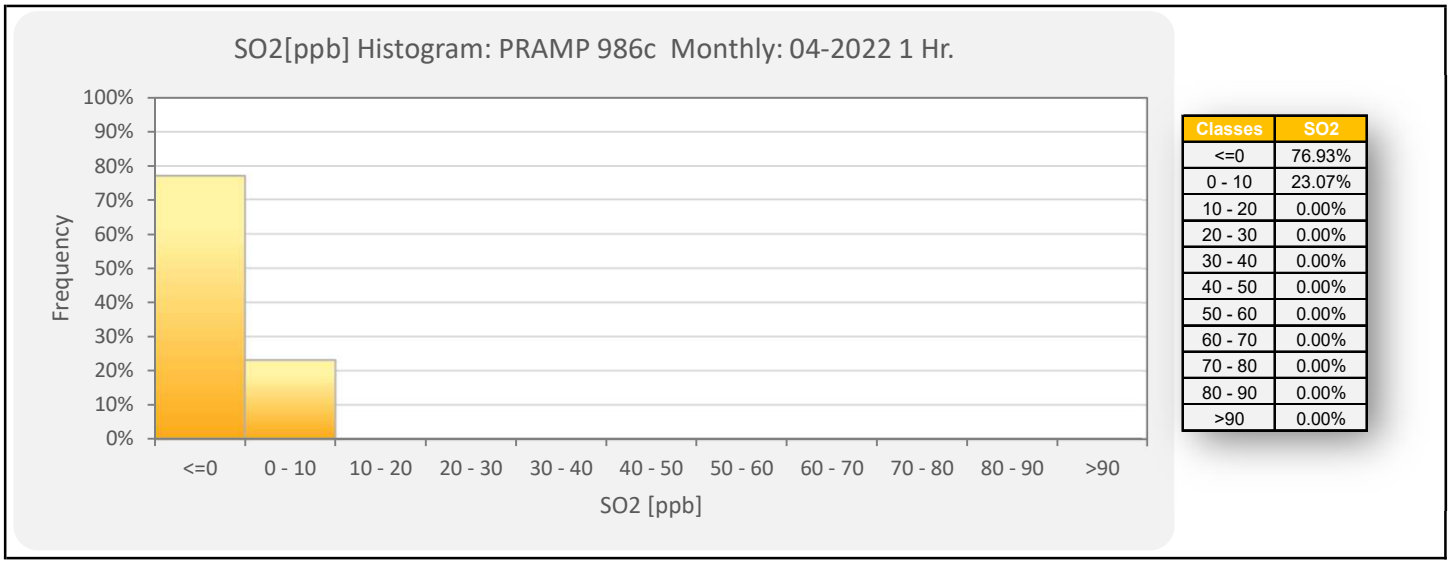
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 2	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 3	0	0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

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

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

Timeseries Chart of Hourly Average for SO2 - 986c Station

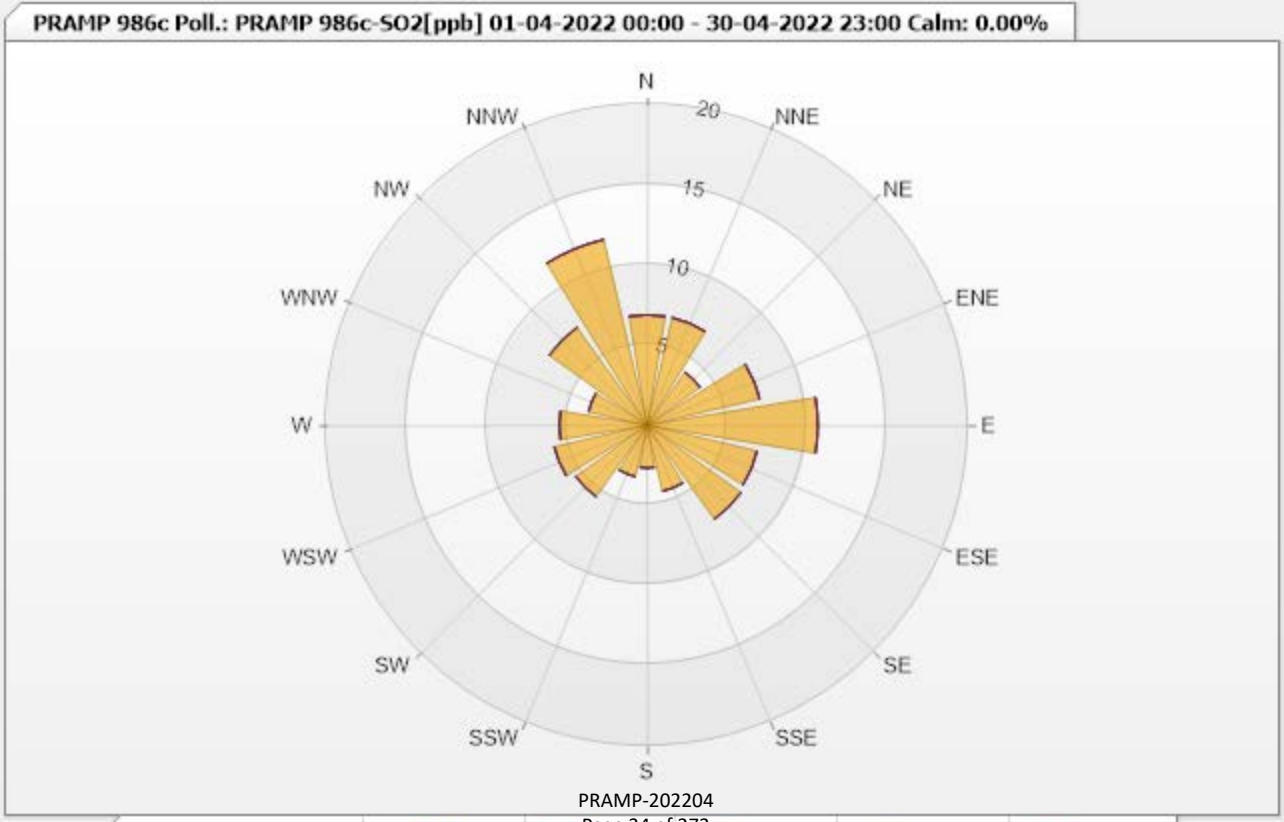




Classes	SO2
<=0	76.93%
0 - 10	23.07%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-SO2[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.89% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	6.88	0	0	0	0	6.88
NNE	6.88	0	0	0	0	6.88
NE	4.06	0	0	0	0	4.06
ENE	7.19	0	0	0	0	7.19
E	10.63	0	0	0	0	10.63
ESE	7.03	0	0	0	0	7.03
SE	7.19	0	0	0	0	7.19
SSE	4.22	0	0	0	0	4.22
S	2.66	0	0	0	0	2.66
SSW	3.28	0	0	0	0	3.28
SW	5.47	0	0	0	0	5.47
WSW	5.94	0	0	0	0	5.94
W	5.47	0	0	0	0	5.47
WNW	3.75	0	0	0	0	3.75
NW	7.5	0	0	0	0	7.5
NNW	11.88	0	0	0	0	11.88
Summary	100	0	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-SO2[ppb] 01-04-2022 00:00 - 30-04-2022 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 - April 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

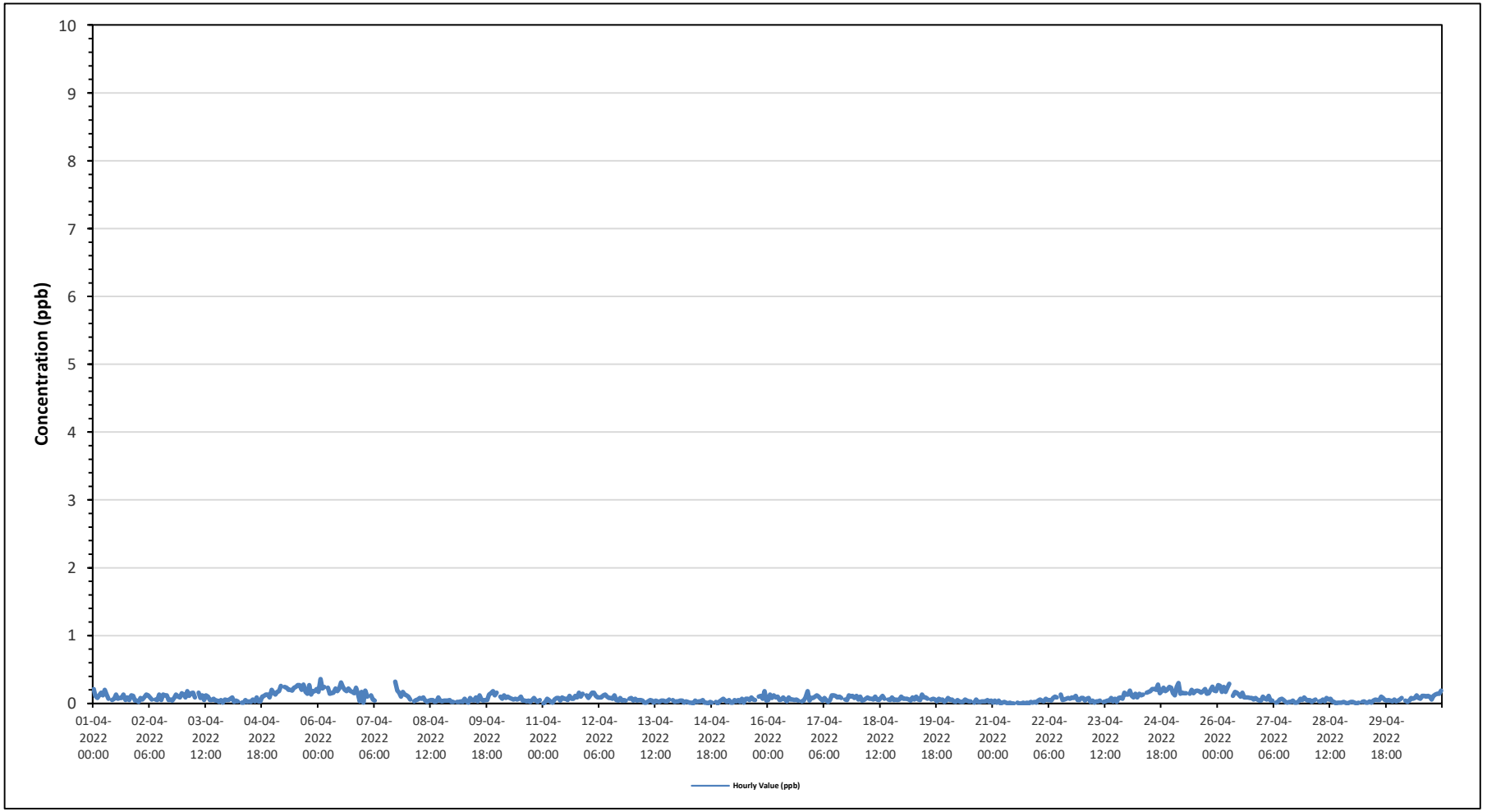
Maximum Hourly Value:	0.36	ppb	on April 6 at hour 1	Hours in Service:	720
Maximum Daily Value:	0.21	ppb	on April 5	Hours of Data:	679
Minimum Hourly Value:	0.00	ppb	on April 11 at hour 0	Hours of Missing Data:	5
Minimum Daily Value:	0.01	ppb	on April 21	Hours of Calibration:	36
Monthly Average:	0.08	ppb		Operational Uptime:	99.3

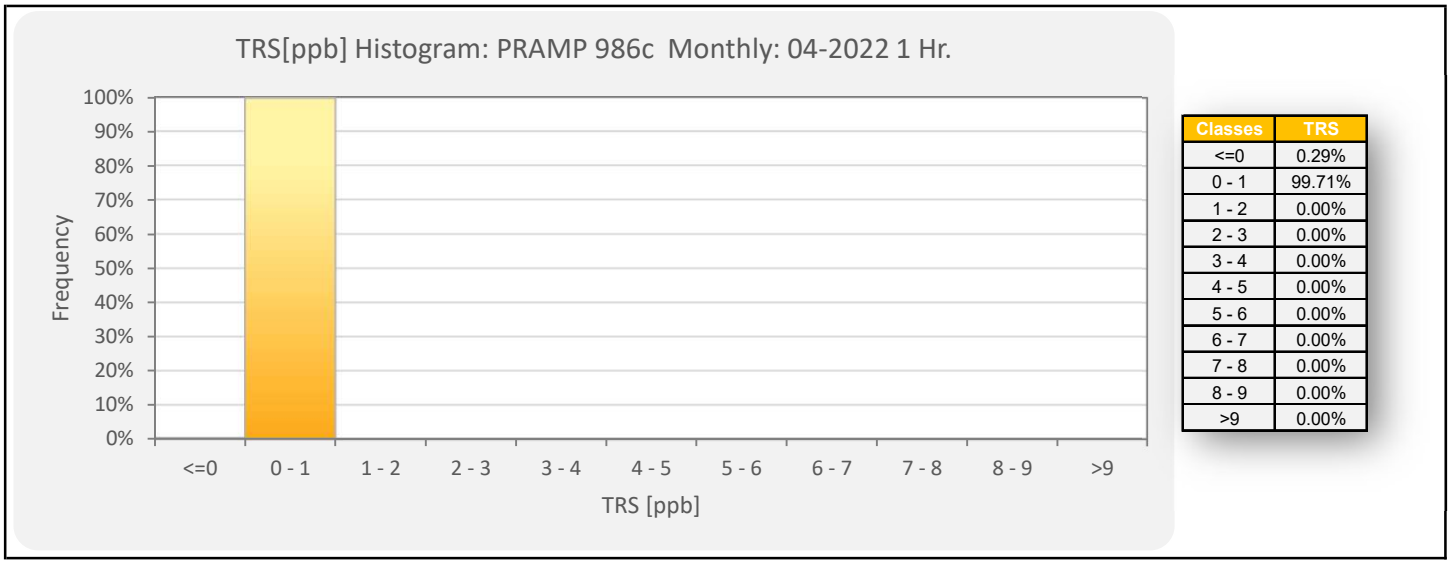
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0.21	0.11	0.08	0.12	0.16	0.12	0.2	0.13	0.07	S	0.05	0.07	0.13	0.07	0.08	0.08	0.13	0.05	0.09	0.05	0.12	0.11	0.04	0.04	0.04	0.21	0.10
Apr 2	0.02	0.08	0.06	0.09	0.13	0.12	0.09	0.06	S	0.06	0.05	0.13	0.05	0.13	0.12	0.12	0.05	0.06	0.04	0.08	0.13	0.1	0.09	0.15	0.02	0.15	0.09
Apr 3	0.13	0.09	0.18	0.11	0.15	0.16	0.09	S	0.16	0.08	0.12	0.05	0.12	0.1	0.05	0.05	0.07	0.04	0.04	0.02	0.05	0.01	0.06	0.05	0.01	0.18	0.09
Apr 4	0.05	0.07	0.09	0.02	0.04	0.03	S	0.01	0.01	0.05	0.02	0.03	0.02	0.06	0.03	0.09	0.03	0.03	0.1	0.11	0.13	0.13	0.09	0.2	0.01	0.20	0.06
Apr 5	0.16	0.13	0.17	0.18	0.26	S	0.24	0.23	0.2	0.2	0.19	0.23	0.24	0.27	0.27	0.2	0.28	0.17	0.14	0.27	0.13	0.18	0.18	0.21	0.13	0.28	**0.21**
Apr 6	0.17	**0.36**	0.22	0.24	S	0.23	0.14	0.15	0.16	0.22	0.18	0.22	0.31	0.24	0.2	0.18	0.22	0.18	0.17	0.15	0.23	0.14	0.03	0.17	0.03	**0.36**	0.20
Apr 7	0.01	0.19	0.1	S	0.12	0.06	0.04	NRM	NRM	NRM	NRM	C	C	NRM	C	C	C	0.32	0.19	0.16	0.1	0.17	0.13	0.12	0.01	0.32	-
Apr 8	0.1	0.06	S	0.03	0.05	0.06	0.08	0.07	0.09	0.04	0.02	0.04	0.05	0.05	0.02	0.03	0.09	0.04	0.03	0.04	0.04	0.04	0.05	0.02	0.02	0.10	0.05
Apr 9	0.02	S	0.02	0.02	0.03	0.02	0.07	0.03	0.01	0.08	0.05	0.04	0.09	0.03	0.12	0.06	0.04	0.05	0.05	0.13	0.15	0.18	0.12	0.16	0.01	0.18	0.07
Apr 10	S	0.1	0.07	0.12	0.08	0.1	0.08	0.07	0.06	0.07	0.06	0.07	0.1	0.04	0.04	0.03	0.04	0.02	0.05	0.08	0.04	0.02	0.05	S	0.02	0.12	0.06
Apr 11	0	0.02	0.07	0.05	0.02	0.01	0.06	0.08	0.08	0.04	0.09	0.07	0.07	0.05	0.11	0.07	0.07	0.11	0.09	0.16	0.1	0.14	S	0.12	0.00	0.16	0.07
Apr 12	0.08	0.12	0.16	0.16	0.11	0.09	0.09	0.09	0.12	0.13	0.1	0.08	0.08	0.07	0.12	0.05	0.04	0.08	0.04	0.05	0.04	S	0.07	0.08	0.04	0.16	0.09
Apr 13	0.04	0.07	0.04	0.05	0.05	0.04	0.01	0.01	0.03	0.05	0.04	0.01	0.04	0.03	0.02	0.04	0.04	0.03	0.03	0.06	S	0.05	0.02	0.03	0.01	0.07	0.04
Apr 14	0.03	0.04	0.04	0.01	0.03	0.02	0.01	0.01	0	0.04	0.02	0.03	0.03	0.05	0.01	0.01	0	0.02	0.01	S	0.02	0	0.03	0.05	0.00	0.05	0.02
Apr 15	0.07	0.04	0.02	0.05	0.01	0.01	0.05	0.03	0.05	0.02	0.07	0.01	0.07	0.07	0.05	0.09	0.06	0.05	S	0.1	0.11	0.07	0.18	0.04	0.01	0.18	0.06
Apr 16	0.05	0.13	0.08	0.12	0.09	0.1	0.05	0.06	0.09	0.06	0.03	0.09	0.06	0.06	0.05	0.06	0.04	S	0.03	0.04	0.09	0.18	0.04	0.08	0.03	0.18	0.07
Apr 17	0.08	0.1	0.12	0.1	0.07	0.04	0.08	0.05	0.02	0.05	0.12	0.12	0.11	0.09	0.1	0.08	S	0.06	0.05	0.12	0.1	0.11	0.08	0.11	0.02	0.12	0.09
Apr 18	0.06	0.1	0.04	0.05	0.07	0.09	0.07	0.07	0.06	0.1	0.06	0.05	0.08	0.11	0.07	S	0.06	0.05	0.09	0.05	0.06	0.05	0.06	0.1	0.04	0.11	0.07
Apr 19	0.07	0.07	0.07	0.06	0.04	0.09	0.06	0.1	0.06	0.05	0.13	0.09	0.09	0.07	S	0.06	0.07	0.06	0.03	0.07	0.05	0.06	0.02	0.04	0.02	0.13	0.07
Apr 20	0.08	0.05	0.06	0.03	0.02	0.05	0.03	0.02	0.02	0.06	0.04	0.03	0.03	S	0.01	0.06	0.02	0.02	0.03	0.03	0.03	0.05	0.02	0.04	0.01	0.08	0.04
Apr 21	0.01	0.04	0.01	0.04	0	0.01	0.02	0.01	0	0.01	0	0	S	0.01	0	0	0.01	0	0.01	0	0.02	0.01	0.02	0.01	0.00	0.04	0.01
Apr 22	0.04	0.06	0.04	0.03	0.07	0.05	0.05	0.04	0.08	0.1	0.09	S	0.13	0.05	0.06	0.07	0.08	0.07	0.09	0.08	0.11	0.05	0.05	0.08	0.03	0.13	0.07
Apr 23	0.08	0.04	0.07	0.08	0.02	0.04	0.01	0.03	0.03	0.04	S	0.02	0.03	0.04	0.04	0.08	0.03	0.07	0.02	0.08	0.09	0.07	0.16	0.13	0.01	0.16	0.06
Apr 24	0.13	0.19	0.11	0.09	0.14	0.09	0.14	0.12	0.13	S	0.16	0.17	0.18	0.21	0.21	0.2	0.28	0.15	0.18	0.23	0.18	0.2	0.24	0.23	0.09	0.28	0.17
Apr 25	0.15	0.12	0.24	0.3	0.14	0.16	0.15	0.15	S	0.14	0.2	0.15	0.18	0.19	0.18	0.16	0.18	0.21	0.14	0.15	0.2	0.25	0.19	0.18	0.12	0.30	0.18
Apr 26	0.27	0.26	0.17	0.24	0.17	0.23	0.29	S	0.11	0.17	0.16	0.13	0.1	0.16	0.09	0.09	0.09	0.08	0.08	0.06	0.08	0.06	0.04	0.04	0.04	0.29	0.14
Apr 27	0.1	0.07	0.06	0.11	0.04	0.04	S	0.01	0.02	0.06	0.07	0.05	0.02	0.01	0.02	0.02	0.04	0.01	0.01	0.03	0.07	0.05	0.09	0.06	0.01	0.11	0.05
Apr 28	0.04	0.05	0.02	0.04	0.06	S	0.03	0.03	0.06	0.03	0.08	0.06	0.07	0.03	0.02	0	0.01	0.01	0.01	0.02	0.01	0	0.01	0.02	0.00	0.08	0.03
Apr 29	0.02	0.01	0	0.01	S	0.02	0.03	0.01	0.01	0.03	0.01	0.04	0.06	0.05	0.05	0.1	0.08	0.05	0.04	0.05	0.04	0.03	0.06	0.03	0.00	0.10	0.04
Apr 30	0.04	0.06	0.08	S	0.04	0.02	0.04	0.08	0.07	0.08	0.12	0.08	0.07	0.11	0.11	0.1	0.11	0.1	0.06	0.11	0.13	0.14	0.14	0.19	0.02	0.19	0.09
Diurnal Maximum	0.27	0.36	0.24	0.30	0.26	0.23	0.29	0.23	0.20	0.22	0.20	0.23	0.31	0.27	0.27	0.20	0.28	0.32	0.19	0.27	0.23	0.25	0.24	0.23			
Diurnal Average	0.08	0.10	0.09	0.09	0.08	0.08	0.08	0.06	0.07	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.08	0.07	0.09	0.09	0.09	0.08	0.10			

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

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

Timeseries Chart of Hourly Average for TRS - 986c Station

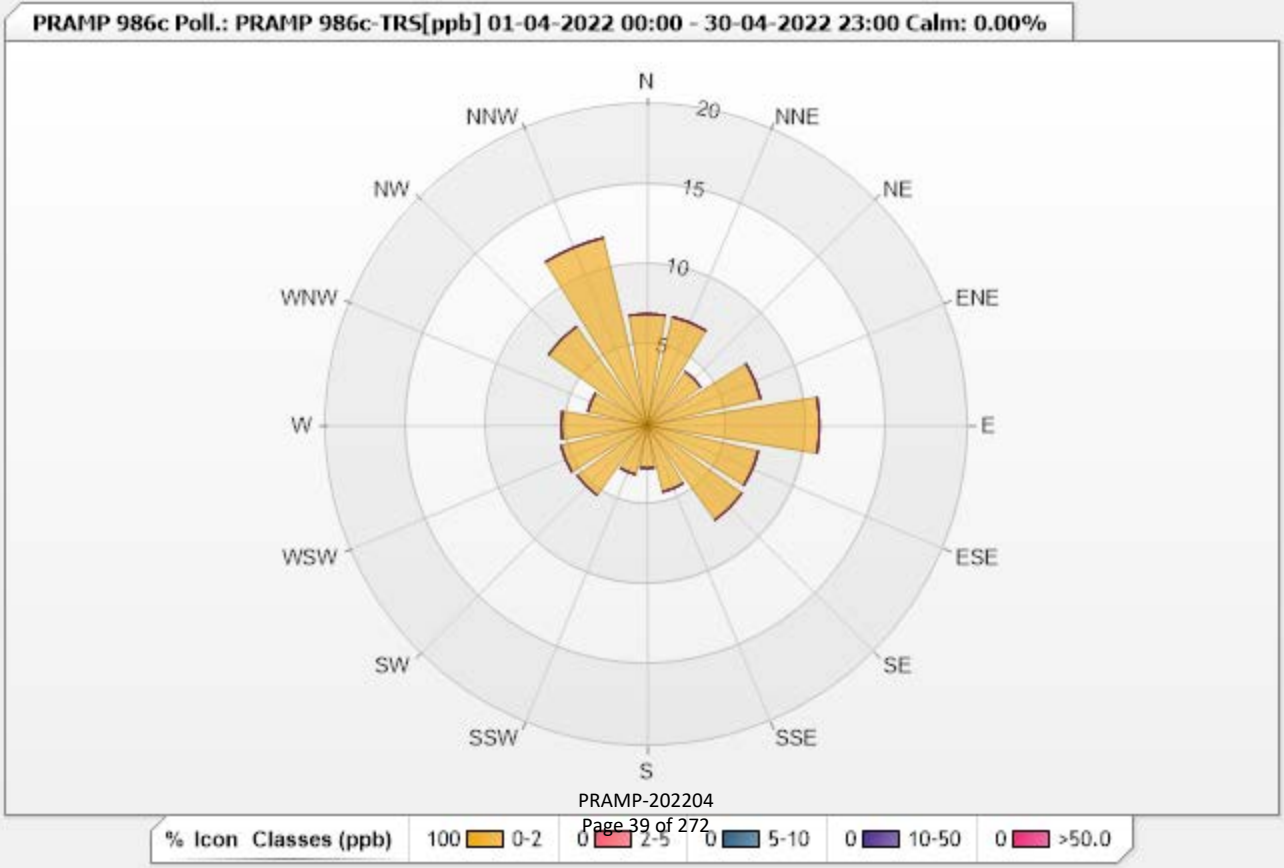




Classes	TRS
<=0	0.29%
0 - 1	99.71%
1 - 2	0.00%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-TRS[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.06% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	6.94	0	0	0	0	6.94
NNE	6.94	0	0	0	0	6.94
NE	4.1	0	0	0	0	4.1
ENE	7.26	0	0	0	0	7.26
E	10.73	0	0	0	0	10.73
ESE	7.1	0	0	0	0	7.1
SE	7.26	0	0	0	0	7.26
SSE	4.26	0	0	0	0	4.26
S	2.68	0	0	0	0	2.68
SSW	3.15	0	0	0	0	3.15
SW	5.36	0	0	0	0	5.36
WSW	5.52	0	0	0	0	5.52
W	5.36	0	0	0	0	5.36
WNW	3.79	0	0	0	0	3.79
NW	7.57	0	0	0	0	7.57
NNW	11.99	0	0	0	0	11.99
Summary	100	0	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-TRS[ppb] 01-04-2022 00:00 - 30-04-2022 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 - April 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

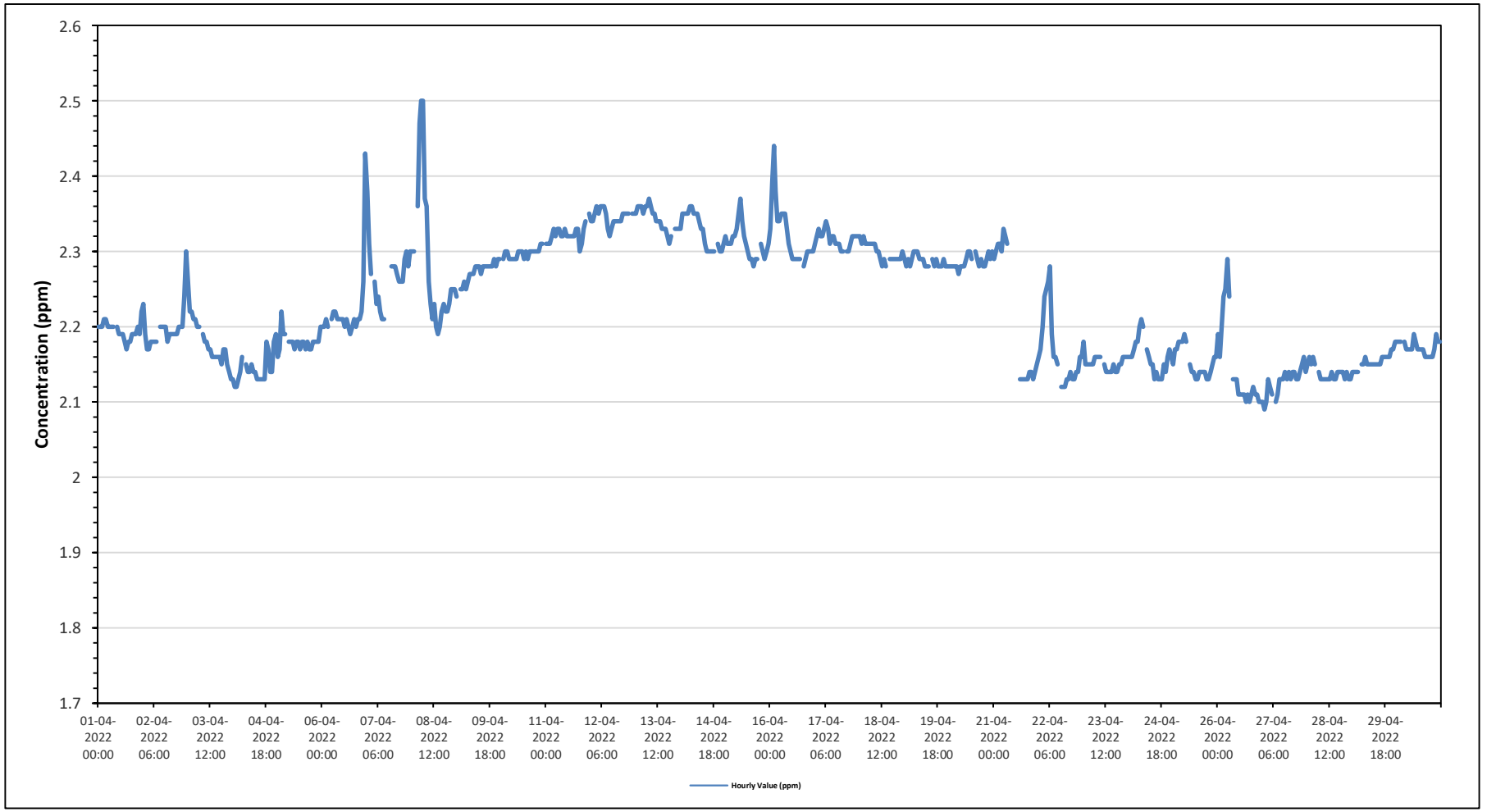
Maximum Hourly Value:	2.50	ppm	on April 8 at hour 5	Hours in Service:	720
Maximum Daily Value:	2.35	ppm	on April 12	Hours of Data:	681
Minimum Hourly Value:	2.09	ppm	on April 27 at hour 1	Hours of Missing Data:	6
Minimum Daily Value:	2.13	ppm	on April 27	Hours of Calibration:	33
Monthly Average:	2.23	ppm		Operational Uptime:	99.2

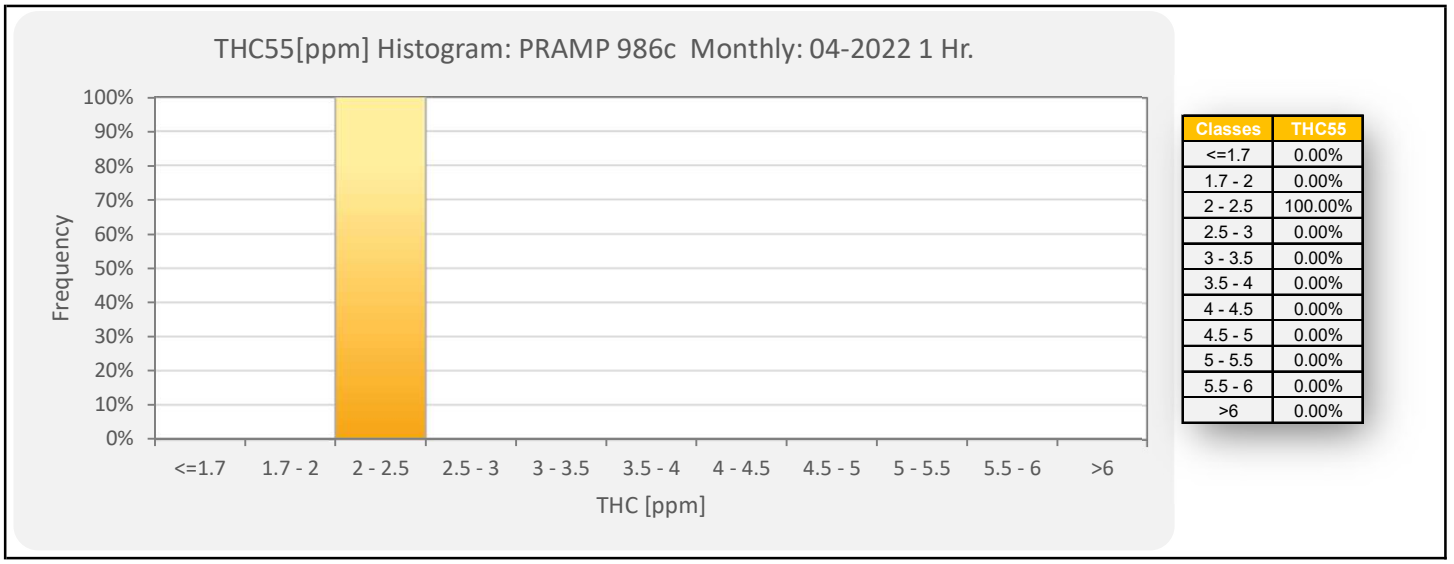
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2.20	2.20	2.20	2.21	2.21	2.20	2.20	2.20	2.20	S	2.20	2.19	2.19	2.19	2.18	2.17	2.18	2.18	2.19	2.19	2.19	2.20	2.19	2.22	2.17	2.22	2.19
Apr 2	2.23	2.19	2.17	2.17	2.18	2.18	2.18	2.18	S	2.20	2.20	2.20	2.20	2.18	2.19	2.19	2.19	2.19	2.19	2.20	2.20	2.20	2.24	2.30	2.17	2.30	2.20
Apr 3	2.26	2.22	2.22	2.21	2.21	2.20	2.20	S	2.19	2.18	2.18	2.17	2.17	2.16	2.16	2.16	2.16	2.16	2.15	2.17	2.17	2.15	2.14	2.13	2.13	2.26	2.18
Apr 4	2.13	2.12	2.12	2.13	2.14	2.16	S	2.15	2.14	2.14	2.15	2.14	2.14	2.13	2.13	2.13	2.13	2.13	2.18	2.17	2.14	2.14	2.18	2.19	2.12	2.19	2.14
Apr 5	2.16	2.17	2.22	2.19	2.19	S	2.18	2.18	2.18	2.17	2.18	2.18	2.17	2.18	2.18	2.17	2.18	2.17	2.17	2.18	2.18	2.18	2.18	2.20	2.16	2.22	2.18
Apr 6	2.20	2.20	2.21	2.20	S	2.21	2.22	2.22	2.21	2.21	2.21	2.21	2.20	2.21	2.20	2.19	2.20	2.21	2.20	2.21	2.21	2.22	2.26	2.43	2.19	2.43	2.22
Apr 7	2.38	2.31	2.27	S	2.26	2.23	2.24	2.22	2.21	2.21	C	C	C	2.28	2.28	2.28	2.27	2.26	2.26	2.26	2.29	2.30	2.28	2.30	2.21	2.38	2.27
Apr 8	2.30	2.30	S	2.36	2.47	**2.50**	**2.50**	2.37	2.36	2.26	2.23	2.21	2.23	2.20	2.19	2.20	2.22	2.23	2.22	2.22	2.23	2.25	2.25	2.25	2.19	**2.50**	2.28
Apr 9	2.24	S	2.25	2.25	2.26	2.25	2.26	2.27	2.27	2.27	2.28	2.28	2.28	2.27	2.28	2.28	2.28	2.28	2.28	2.28	2.29	2.28	2.29	2.29	2.24	2.29	2.27
Apr 10	S	2.29	2.30	2.30	2.29	2.29	2.29	2.29	2.29	2.30	2.30	2.30	2.29	2.30	2.29	2.30	2.30	2.30	2.30	2.30	2.30	2.31	2.31	S	2.29	2.31	2.30
Apr 11	2.31	2.31	2.31	2.32	2.33	2.32	2.33	2.33	2.32	2.32	2.33	2.32	2.32	2.32	2.32	2.32	2.33	2.33	2.30	2.31	2.33	2.34	S	2.35	2.30	2.35	2.32
Apr 12	2.34	2.34	2.35	2.36	2.35	2.36	2.36	2.36	2.35	2.33	2.32	2.33	2.34	2.34	2.34	2.34	2.34	2.35	2.35	2.35	2.35	S	2.35	2.35	2.32	2.36	**2.35**
Apr 13	2.35	2.36	2.36	2.36	2.35	2.36	2.36	2.37	2.36	2.35	2.35	2.34	2.34	2.34	2.33	2.33	2.33	2.32	2.31	2.32	S	2.33	2.33	2.33	2.31	2.37	2.34
Apr 14	2.33	2.35	2.35	2.35	2.35	2.36	2.36	2.35	2.35	2.35	2.34	2.33	2.33	2.31	2.30	2.30	2.30	2.30	2.30	S	2.31	2.30	2.30	2.31	2.30	2.36	2.33
Apr 15	2.32	2.31	2.31	2.31	2.32	2.32	2.33	2.35	2.37	2.34	2.32	2.31	2.30	2.29	2.29	2.28	2.29	2.29	S	2.31	2.30	2.29	2.30	2.31	2.28	2.37	2.31
Apr 16	2.33	2.39	2.44	2.38	2.34	2.34	2.35	2.35	2.35	2.33	2.31	2.30	2.29	2.29	2.29	2.29	2.29	S	2.28	2.29	2.30	2.30	2.30	2.30	2.28	2.44	2.32
Apr 17	2.31	2.32	2.33	2.32	2.32	2.33	2.34	2.33	2.31	2.32	2.32	2.31	2.31	2.31	2.30	2.30	S	2.30	2.30	2.31	2.32	2.32	2.32	2.32	2.30	2.34	2.32
Apr 18	2.32	2.31	2.32	2.31	2.31	2.31	2.31	2.31	2.31	2.30	2.30	2.29	2.28	2.29	2.28	S	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.30	2.28	2.32	2.30
Apr 19	2.29	2.28	2.29	2.28	2.29	2.30	2.30	2.30	2.29	2.29	2.29	2.28	2.28	2.28	S	2.29	2.28	2.29	2.28	2.28	2.28	2.29	2.28	2.28	2.28	2.30	2.29
Apr 20	2.28	2.28	2.28	2.28	2.28	2.27	2.28	2.28	2.28	2.29	2.30	2.30	2.29	S	2.30	2.29	2.28	2.29	2.28	2.28	2.29	2.30	2.29	2.30	2.27	2.30	2.29
Apr 21	2.29	2.30	2.31	2.31	2.30	2.33	2.32	2.31	NRM	NRM	NRM	NRM	NRM	NRM	2.13	2.13	2.13	2.13	2.13	2.14	2.14	2.13	2.14	2.15	2.13	2.33	2.21
Apr 22	2.16	2.17	2.20	2.24	2.25	2.26	2.28	2.19	2.16	2.16	2.15	S	2.12	2.12	2.12	2.13	2.13	2.14	2.13	2.13	2.14	2.14	2.16	2.16	2.12	2.28	2.17
Apr 23	2.18	2.15	2.15	2.15	2.15	2.15	2.16	2.16	2.16	2.16	S	2.15	2.14	2.14	2.14	2.14	2.15	2.14	2.14	2.15	2.15	2.16	2.16	2.16	2.14	2.18	2.15
Apr 24	2.16	2.16	2.16	2.17	2.18	2.18	2.20	2.21	2.20	S	2.17	2.16	2.15	2.15	2.13	2.14	2.13	2.13	2.13	2.15	2.14	2.16	2.17	2.16	2.13	2.21	2.16
Apr 25	2.15	2.17	2.17	2.18	2.18	2.18	2.19	2.18	S	2.15	2.14	2.14	2.13	2.13	2.14	2.14	2.14	2.14	2.13	2.13	2.14	2.15	2.16	2.16	2.13	2.19	2.15
Apr 26	2.19	2.16	2.20	2.24	2.25	2.29	2.24	S	2.13	2.13	2.13	2.11	2.11	2.11	2.11	2.10	2.11	2.10	2.11	2.12	2.11	2.11	2.10	2.10	2.10	2.29	2.15
Apr 27	2.10	2.09	2.10	2.13	2.12	2.11	S	2.10	2.11	2.13	2.13	2.13	2.14	2.13	2.14	2.13	2.14	2.14	2.13	2.13	2.14	2.15	2.16	2.14	2.09	2.16	2.13
Apr 28	2.15	2.16	2.15	2.16	2.15	S	2.14	2.13	2.13	2.13	2.13	2.13	2.13	2.14	2.13	2.13	2.14	2.14	2.14	2.14	2.13	2.14	2.13	2.13	2.13	2.16	2.14
Apr 29	2.14	2.14	2.14	2.14	S	2.15	2.15	2.16	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.16	2.16	2.16	2.16	2.16	2.17	2.17	2.18	2.14	2.18	2.15
Apr 30	2.18	2.18	2.18	S	2.18	2.17	2.17	2.17	2.17	2.19	2.18	2.17	2.17	2.17	2.17	2.16	2.16	2.16	2.16	2.16	2.17	2.19	2.18	2.18	2.16	2.19	2.17
Diurnal Maximum	2.38	2.39	2.44	2.38	2.47	2.50	2.50	2.37	2.37	2.35	2.35	2.34	2.34	2.34	2.34	2.34	2.34	2.35	2.35	2.35	2.35	2.34	2.35	2.43			
Diurnal Average	2.24	2.24	2.24	2.25	2.26	2.26	2.27	2.25	2.24	2.24	2.23	2.23	2.22	2.22	2.21	2.21	2.21	2.22	2.21	2.22	2.22	2.22	2.23	2.24			

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

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

Timeseries Chart of Hourly Average for THC - 986c Station

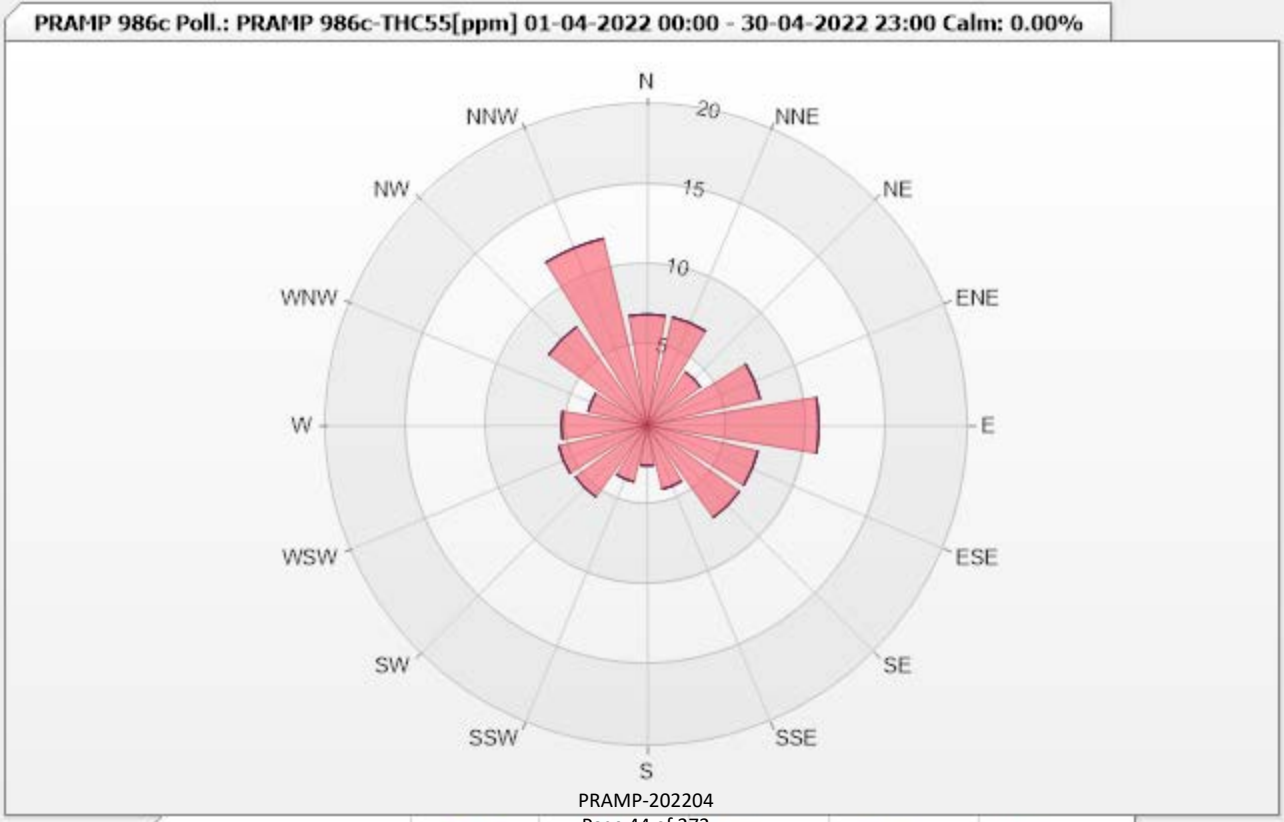




Classes	THC55
<=1.7	0.00%
1.7 - 2	0.00%
2 - 2.5	100.00%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-THC55[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.33% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	0	6.92	0	0	0	6.92
NNE	0	6.92	0	0	0	6.92
NE	0	4.09	0	0	0	4.09
ENE	0	7.23	0	0	0	7.23
E	0	10.69	0	0	0	10.69
ESE	0	7.08	0	0	0	7.08
SE	0	7.08	0	0	0	7.08
SSE	0	4.09	0	0	0	4.09
S	0	2.52	0	0	0	2.52
SSW	0	3.62	0	0	0	3.62
SW	0	5.5	0	0	0	5.5
WSW	0	5.66	0	0	0	5.66
W	0	5.35	0	0	0	5.35
WNW	0	3.77	0	0	0	3.77
NW	0	7.55	0	0	0	7.55
NNW	0	11.95	0	0	0	11.95
Summary	0	100	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-THC55[ppm] 01-04-2022 00:00 - 30-04-2022 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
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PEACE RIVER AREA MONITORING PROGRAM

986c Station - April 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

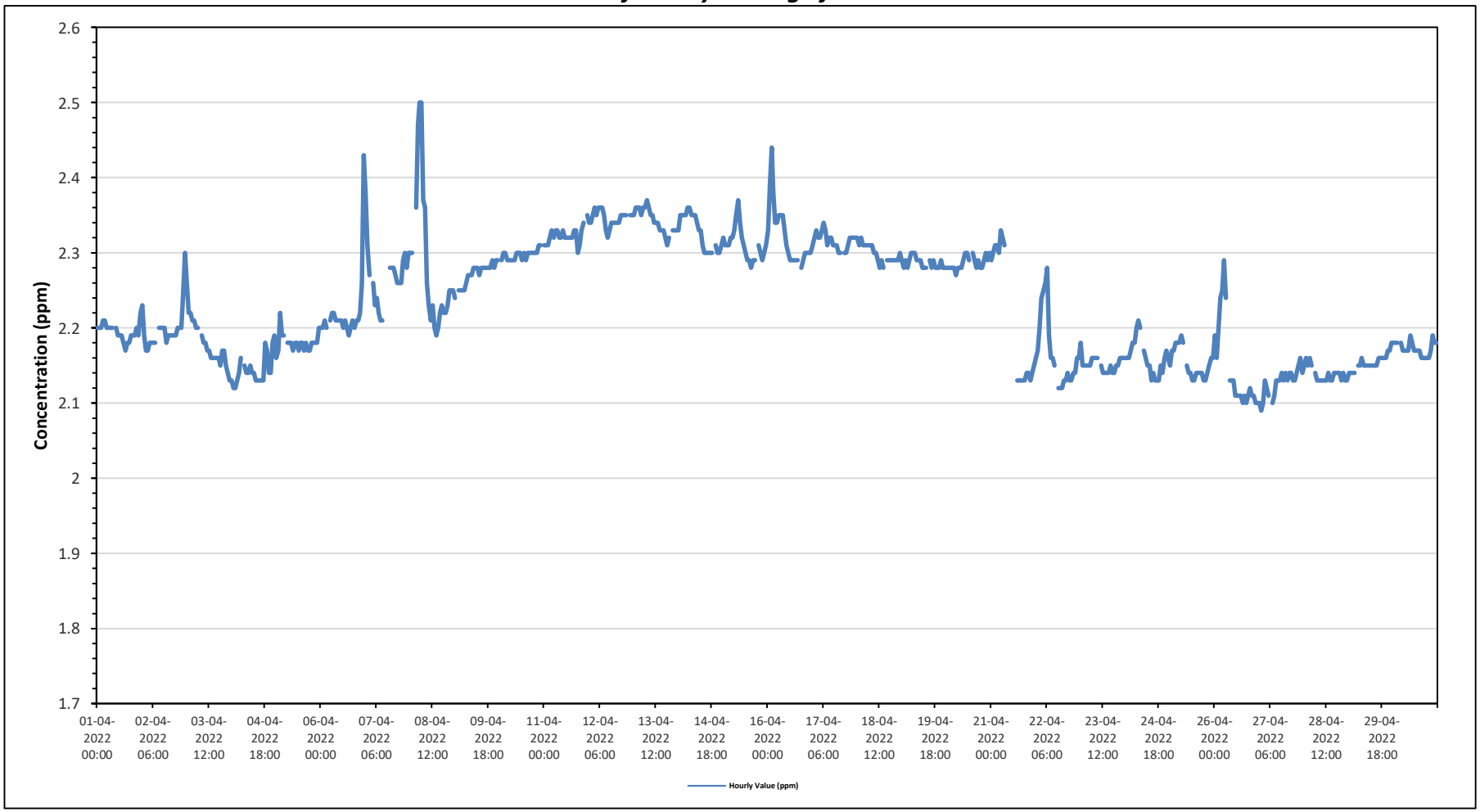
Maximum Hourly Value:	2.50	ppm	on April 8 at hour 5	Hours in Service:	720
Maximum Daily Value:	2.35	ppm	on April 12	Hours of Data:	681
Minimum Hourly Value:	2.09	ppm	on April 27 at hour 1	Hours of Missing Data:	6
Minimum Daily Value:	2.13	ppm	on April 27	Hours of Calibration:	33
Monthly Average:	2.23	ppm		Operational Uptime:	99.2

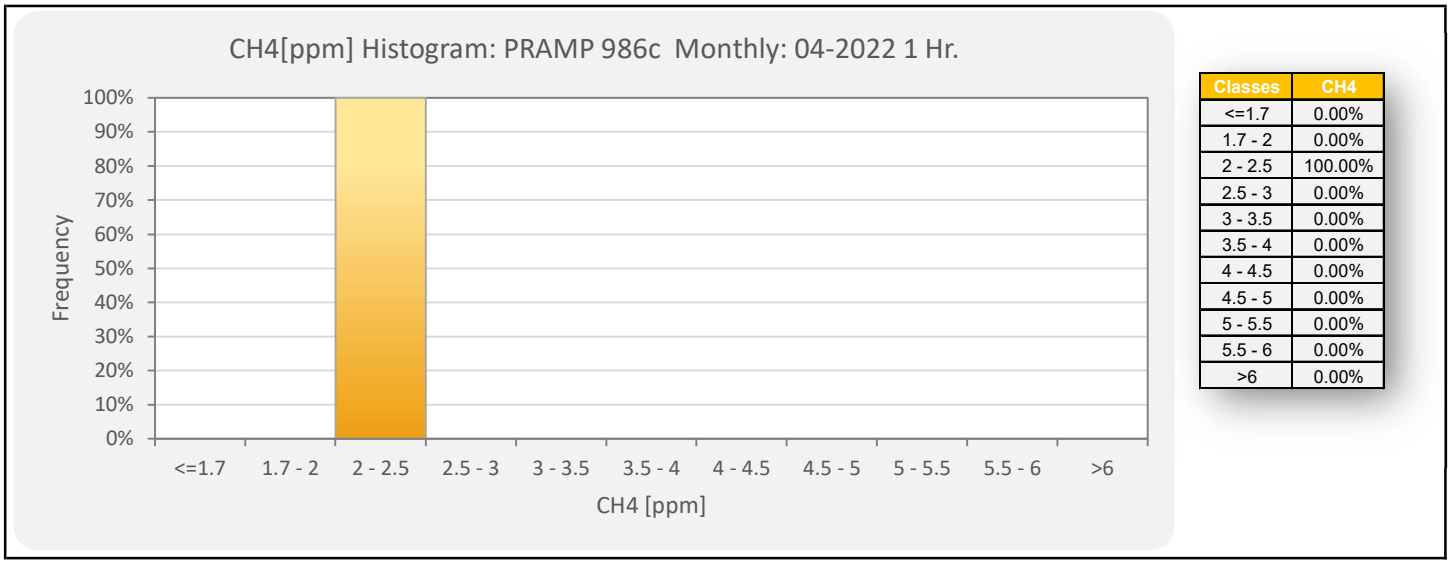
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2.20	2.20	2.20	2.21	2.21	2.20	2.20	2.20	2.20	S	2.20	2.19	2.19	2.19	2.18	2.17	2.18	2.18	2.19	2.19	2.19	2.20	2.19	2.22	2.17	2.22	2.19
Apr 2	2.23	2.19	2.17	2.17	2.18	2.18	2.18	2.18	S	2.20	2.20	2.20	2.20	2.18	2.19	2.19	2.19	2.19	2.19	2.20	2.20	2.20	2.24	2.30	2.17	2.30	2.20
Apr 3	2.26	2.22	2.22	2.21	2.21	2.20	2.20	S	2.19	2.18	2.18	2.17	2.17	2.16	2.16	2.16	2.16	2.16	2.15	2.17	2.17	2.15	2.14	2.13	2.13	2.26	2.18
Apr 4	2.13	2.12	2.12	2.13	2.14	2.16	S	2.15	2.14	2.14	2.15	2.14	2.14	2.13	2.13	2.13	2.13	2.13	2.18	2.17	2.14	2.14	2.18	2.19	2.12	2.19	2.14
Apr 5	2.16	2.17	2.22	2.19	2.19	S	2.18	2.18	2.18	2.17	2.18	2.18	2.17	2.18	2.18	2.17	2.18	2.17	2.17	2.18	2.18	2.18	2.18	2.20	2.16	2.22	2.18
Apr 6	2.20	2.20	2.21	2.20	S	2.21	2.22	2.22	2.21	2.21	2.21	2.21	2.20	2.21	2.20	2.19	2.20	2.21	2.20	2.21	2.21	2.22	2.26	2.43	2.19	2.43	2.22
Apr 7	2.38	2.31	2.27	S	2.26	2.23	2.24	2.22	2.21	2.21	C	C	C	2.28	2.28	2.28	2.27	2.26	2.26	2.26	2.29	2.30	2.28	2.30	2.21	2.38	2.27
Apr 8	2.30	2.30	S	2.36	2.47	**2.50**	**2.50**	2.37	2.36	2.26	2.23	2.21	2.23	2.20	2.19	2.20	2.22	2.23	2.22	2.22	2.23	2.25	2.25	2.25	2.19	**2.50**	2.28
Apr 9	2.24	S	2.25	2.25	2.25	2.25	2.26	2.27	2.27	2.27	2.28	2.28	2.28	2.27	2.28	2.28	2.28	2.28	2.28	2.28	2.29	2.28	2.29	2.29	2.24	2.29	2.27
Apr 10	S	2.29	2.30	2.30	2.29	2.29	2.29	2.29	2.29	2.30	2.30	2.30	2.29	2.30	2.29	2.30	2.30	2.30	2.30	2.30	2.30	2.31	2.31	S	2.29	2.31	2.30
Apr 11	2.31	2.31	2.31	2.32	2.33	2.32	2.33	2.33	2.32	2.32	2.33	2.32	2.32	2.32	2.32	2.32	2.33	2.33	2.30	2.31	2.33	2.34	S	2.35	2.30	2.35	2.32
Apr 12	2.34	2.34	2.35	2.36	2.35	2.36	2.36	2.36	2.35	2.33	2.32	2.33	2.34	2.34	2.34	2.34	2.34	2.35	2.35	2.35	2.35	S	2.35	2.35	2.32	2.36	**2.35**
Apr 13	2.35	2.36	2.36	2.36	2.35	2.36	2.36	2.37	2.36	2.35	2.35	2.34	2.34	2.34	2.33	2.33	2.33	2.32	2.31	2.32	S	2.33	2.33	2.33	2.31	2.37	2.34
Apr 14	2.33	2.35	2.35	2.35	2.35	2.36	2.36	2.35	2.35	2.35	2.34	2.33	2.33	2.31	2.30	2.30	2.30	2.30	2.30	S	2.31	2.30	2.30	2.31	2.30	2.36	2.33
Apr 15	2.32	2.31	2.31	2.31	2.32	2.32	2.33	2.35	2.37	2.34	2.32	2.31	2.30	2.29	2.29	2.28	2.29	2.29	S	2.31	2.30	2.29	2.30	2.31	2.28	2.37	2.31
Apr 16	2.33	2.39	2.44	2.38	2.34	2.34	2.35	2.35	2.35	2.33	2.31	2.30	2.29	2.29	2.29	2.29	2.29	S	2.28	2.29	2.30	2.30	2.30	2.30	2.28	2.44	2.32
Apr 17	2.31	2.32	2.33	2.32	2.32	2.33	2.34	2.33	2.31	2.32	2.32	2.31	2.31	2.31	2.30	2.30	S	2.30	2.30	2.31	2.32	2.32	2.32	2.32	2.30	2.34	2.32
Apr 18	2.32	2.31	2.32	2.31	2.31	2.31	2.31	2.31	2.31	2.30	2.30	2.29	2.28	2.29	2.28	S	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.30	2.28	2.32	2.30
Apr 19	2.29	2.28	2.29	2.28	2.29	2.30	2.30	2.30	2.29	2.29	2.29	2.28	2.28	2.28	S	2.29	2.28	2.29	2.28	2.28	2.28	2.29	2.28	2.28	2.28	2.30	2.29
Apr 20	2.28	2.28	2.28	2.28	2.28	2.27	2.28	2.28	2.28	2.29	2.30	2.30	2.29	S	2.30	2.29	2.28	2.29	2.28	2.28	2.29	2.30	2.29	2.30	2.27	2.30	2.29
Apr 21	2.29	2.30	2.31	2.31	2.30	2.33	2.32	2.31	NRM	NRM	NRM	NRM	NRM	NRM	2.13	2.13	2.13	2.13	2.13	2.14	2.14	2.13	2.14	2.15	2.13	2.33	2.21
Apr 22	2.16	2.17	2.20	2.24	2.25	2.26	2.28	2.19	2.16	2.16	2.15	S	2.12	2.12	2.12	2.13	2.13	2.14	2.13	2.13	2.14	2.14	2.16	2.16	2.12	2.28	2.17
Apr 23	2.18	2.15	2.15	2.15	2.15	2.15	2.16	2.16	2.16	2.16	S	2.15	2.14	2.14	2.14	2.14	2.15	2.14	2.14	2.15	2.15	2.16	2.16	2.16	2.14	2.18	2.15
Apr 24	2.16	2.16	2.16	2.17	2.18	2.18	2.20	2.21	2.20	S	2.17	2.16	2.15	2.15	2.13	2.14	2.13	2.13	2.13	2.15	2.14	2.16	2.17	2.16	2.13	2.21	2.16
Apr 25	2.15	2.17	2.17	2.18	2.18	2.18	2.19	2.18	S	2.15	2.14	2.14	2.13	2.13	2.14	2.14	2.14	2.14	2.13	2.13	2.14	2.15	2.16	2.16	2.13	2.19	2.15
Apr 26	2.19	2.16	2.20	2.24	2.25	2.29	2.24	S	2.13	2.13	2.13	2.11	2.11	2.11	2.11	2.10	2.11	2.10	2.11	2.12	2.11	2.11	2.10	2.10	2.10	2.29	2.15
Apr 27	2.10	2.09	2.10	2.13	2.12	2.11	S	2.10	2.11	2.13	2.13	2.13	2.14	2.13	2.14	2.13	2.14	2.14	2.13	2.13	2.14	2.15	2.16	2.14	2.09	2.16	2.13
Apr 28	2.15	2.16	2.15	2.16	2.15	S	2.14	2.13	2.13	2.13	2.13	2.13	2.13	2.14	2.13	2.13	2.14	2.14	2.14	2.14	2.13	2.14	2.13	2.13	2.13	2.16	2.14
Apr 29	2.14	2.14	2.14	2.14	S	2.15	2.15	2.16	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.16	2.16	2.16	2.16	2.16	2.17	2.17	2.18	2.14	2.18	2.15
Apr 30	2.18	2.18	2.18	S	2.18	2.17	2.17	2.17	2.17	2.19	2.18	2.17	2.17	2.17	2.17	2.16	2.16	2.16	2.16	2.16	2.17	2.19	2.18	2.18	2.16	2.19	2.17
Diurnal Maximum	2.38	2.39	2.44	2.38	2.47	2.50	2.50	2.37	2.37	2.35	2.35	2.34	2.34	2.34	2.34	2.34	2.34	2.35	2.35	2.35	2.35	2.34	2.35	2.43			
Diurnal Average	2.24	2.24	2.24	2.25	2.26	2.26	2.27	2.25	2.24	2.24	2.23	2.23	2.22	2.22	2.21	2.21	2.21	2.22	2.21	2.22	2.22	2.22	2.23	2.24			

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

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

Timeseries Chart of Hourly Average for CH4 - 986c Station

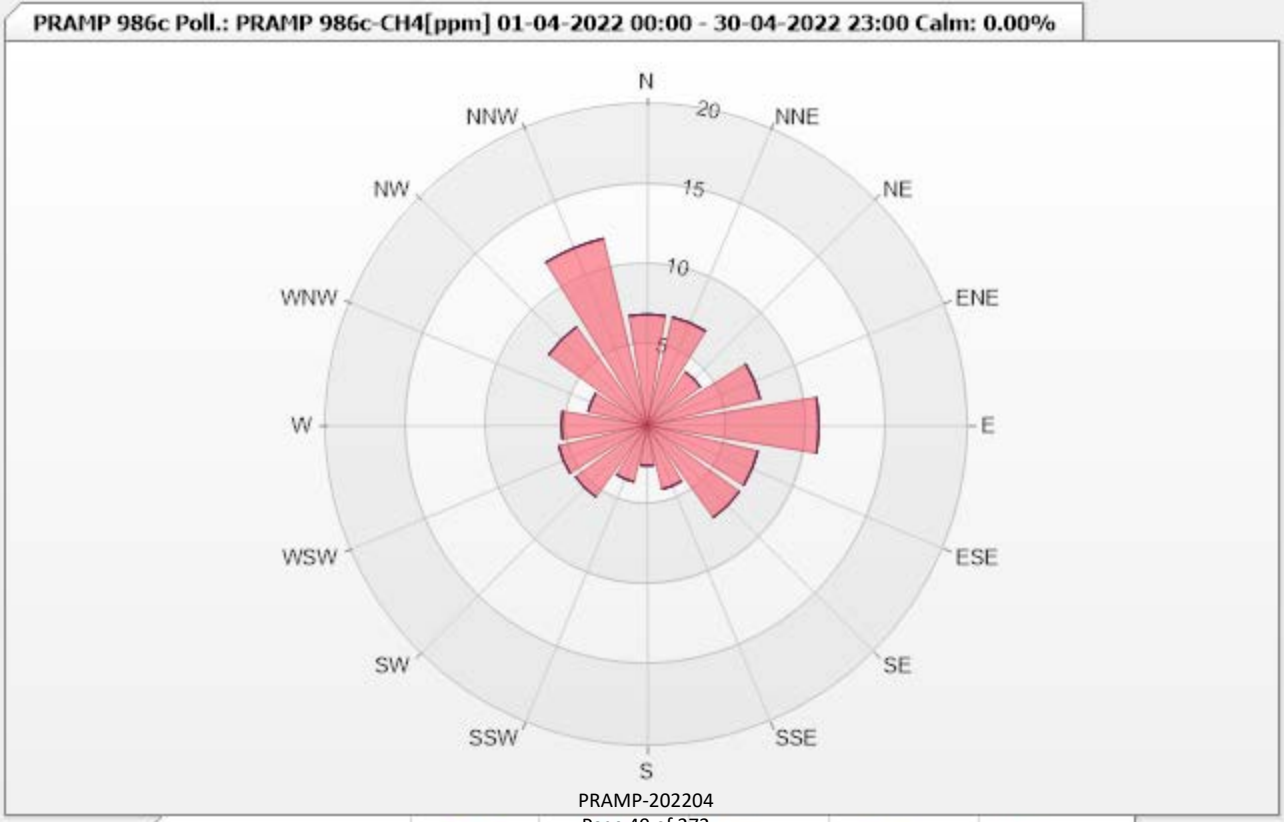




Classes	CH4
<=1.7	0.00%
1.7 - 2	0.00%
2 - 2.5	100.00%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-CH4[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.33% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	0	6.92	0	0	0	6.92
NNE	0	6.92	0	0	0	6.92
NE	0	4.09	0	0	0	4.09
ENE	0	7.23	0	0	0	7.23
E	0	10.69	0	0	0	10.69
ESE	0	7.08	0	0	0	7.08
SE	0	7.08	0	0	0	7.08
SSE	0	4.09	0	0	0	4.09
S	0	2.52	0	0	0	2.52
SSW	0	3.62	0	0	0	3.62
SW	0	5.5	0	0	0	5.5
WSW	0	5.66	0	0	0	5.66
W	0	5.35	0	0	0	5.35
WNW	0	3.77	0	0	0	3.77
NW	0	7.55	0	0	0	7.55
NNW	0	11.95	0	0	0	11.95
Summary	0	100	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-CH4[ppm] 01-04-2022 00:00 - 30-04-2022 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

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PEACE RIVER AREA MONITORING PROGRAM

986c Station - April 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

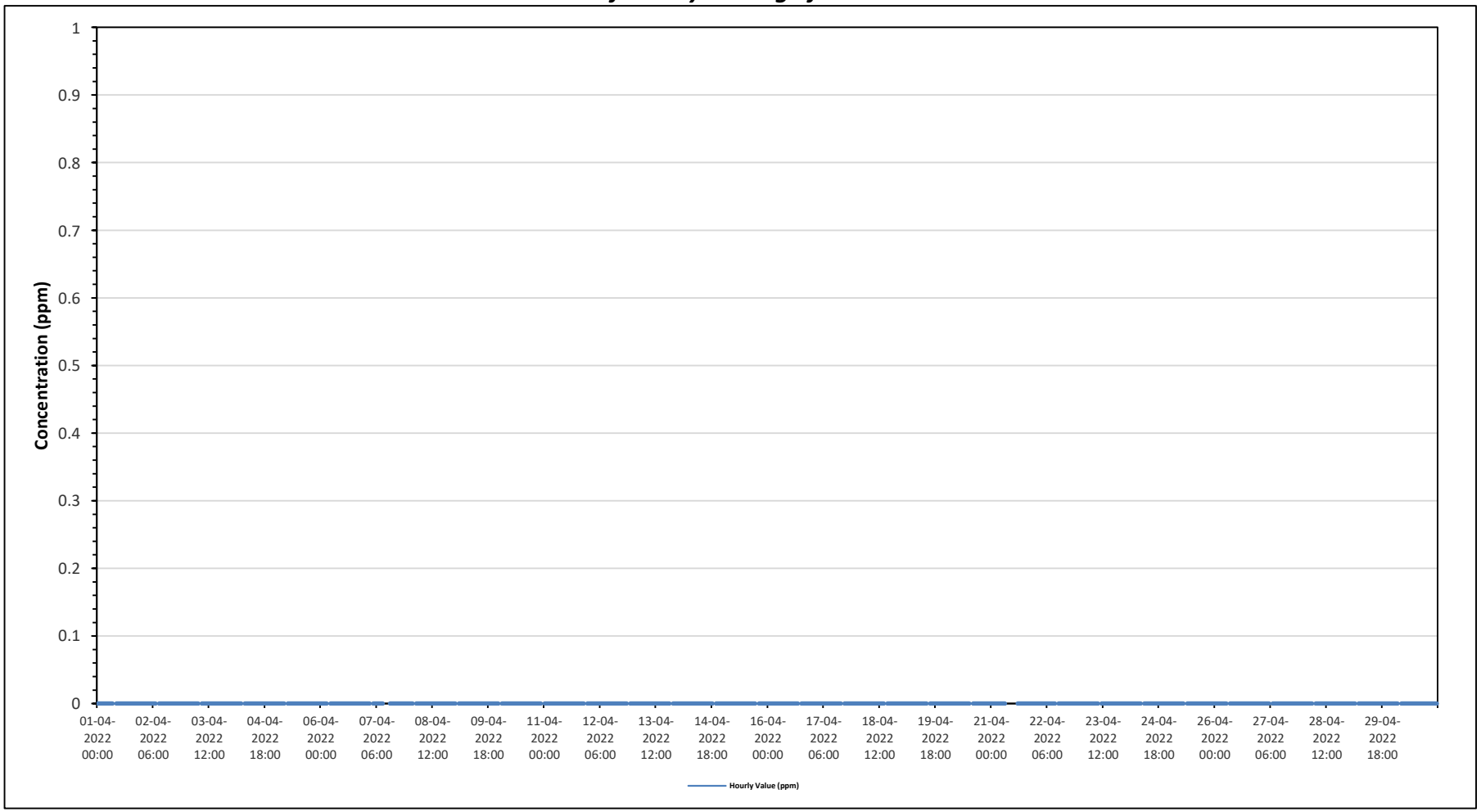
Maximum Hourly Value:	0.00	ppm	on April 1 at hour 0	Hours in Service:	720
Maximum Daily Value:	0.00	ppm	on April 1	Hours of Data:	681
Minimum Hourly Value:	0.00	ppm	on April 1 at hour 0	Hours of Missing Data:	6
Minimum Daily Value:	0.00	ppm	on April 1	Hours of Calibration:	33
Monthly Average:	0.00	ppm		Operational Uptime:	99.2

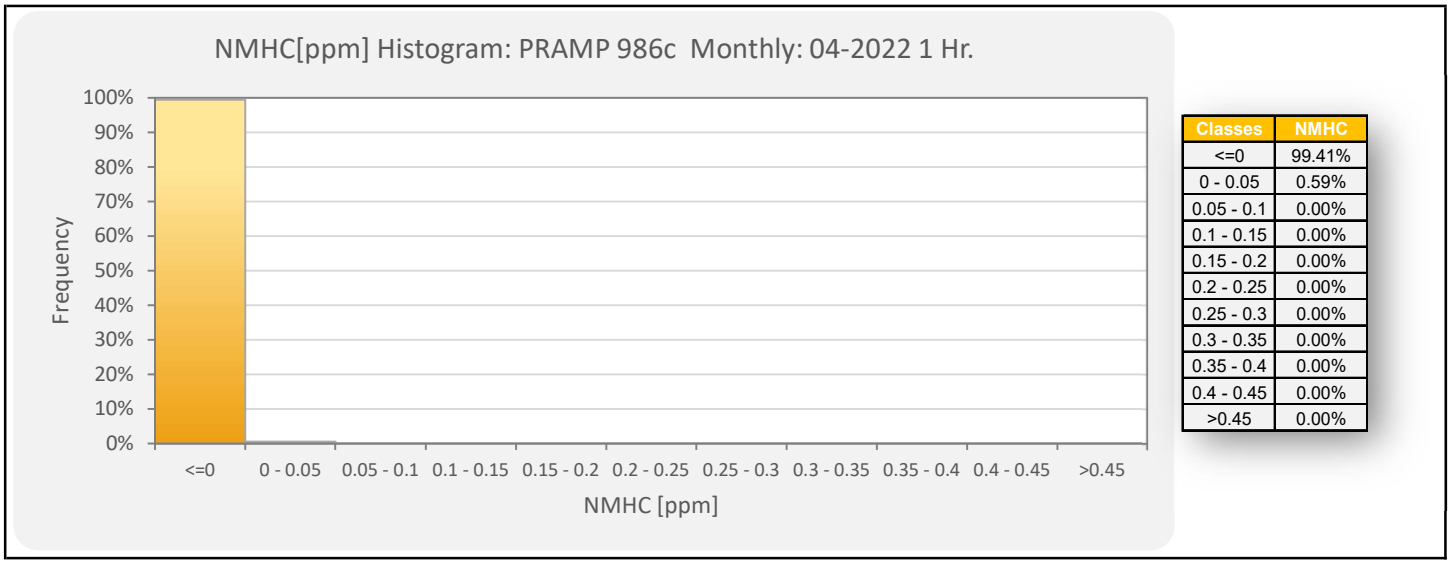
Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Apr 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 2	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
Apr 3	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
Apr 4	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
Apr 5	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
Apr 6	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
Apr 7	0.00	0.00	0.00	S	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	0.00
Apr 8	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
Apr 9	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
Apr 10	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
Apr 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	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
Apr 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 15	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 16	0.00	0.00	0.00	0.00	0.00	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
Apr 17	0.00	0.00	0.00	0.00	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
Apr 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NRM	NRM	NRM	NRM	NRM	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
Apr 22	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
Apr 23	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
Apr 24	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
Apr 25	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
Apr 26	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
Apr 27	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
Apr 28	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
Apr 29	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
Apr 30	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
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

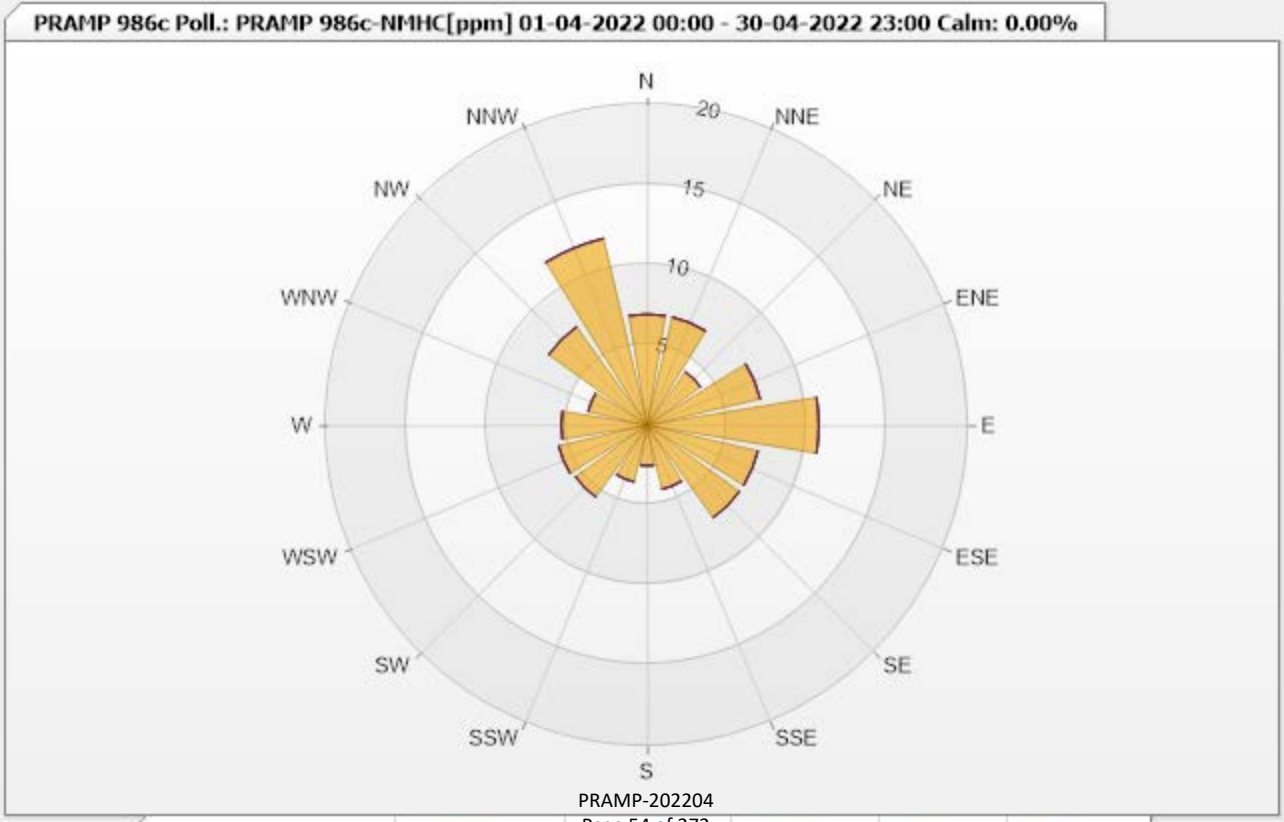




Classes	NMHC
<=0	99.41%
0 - 0.05	0.59%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-NMHC[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.33% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	6.92	0	0	0	0	6.92
NNE	6.92	0	0	0	0	6.92
NE	4.09	0	0	0	0	4.09
ENE	7.23	0	0	0	0	7.23
E	10.69	0	0	0	0	10.69
ESE	7.08	0	0	0	0	7.08
SE	7.08	0	0	0	0	7.08
SSE	4.09	0	0	0	0	4.09
S	2.52	0	0	0	0	2.52
SSW	3.62	0	0	0	0	3.62
SW	5.5	0	0	0	0	5.5
WSW	5.66	0	0	0	0	5.66
W	5.35	0	0	0	0	5.35
WNW	3.77	0	0	0	0	3.77
NW	7.55	0	0	0	0	7.55
NNW	11.95	0	0	0	0	11.95
Summary	100	0	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-NMHC[ppm] 01-04-2022 00:00 - 30-04-2022 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 - April 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

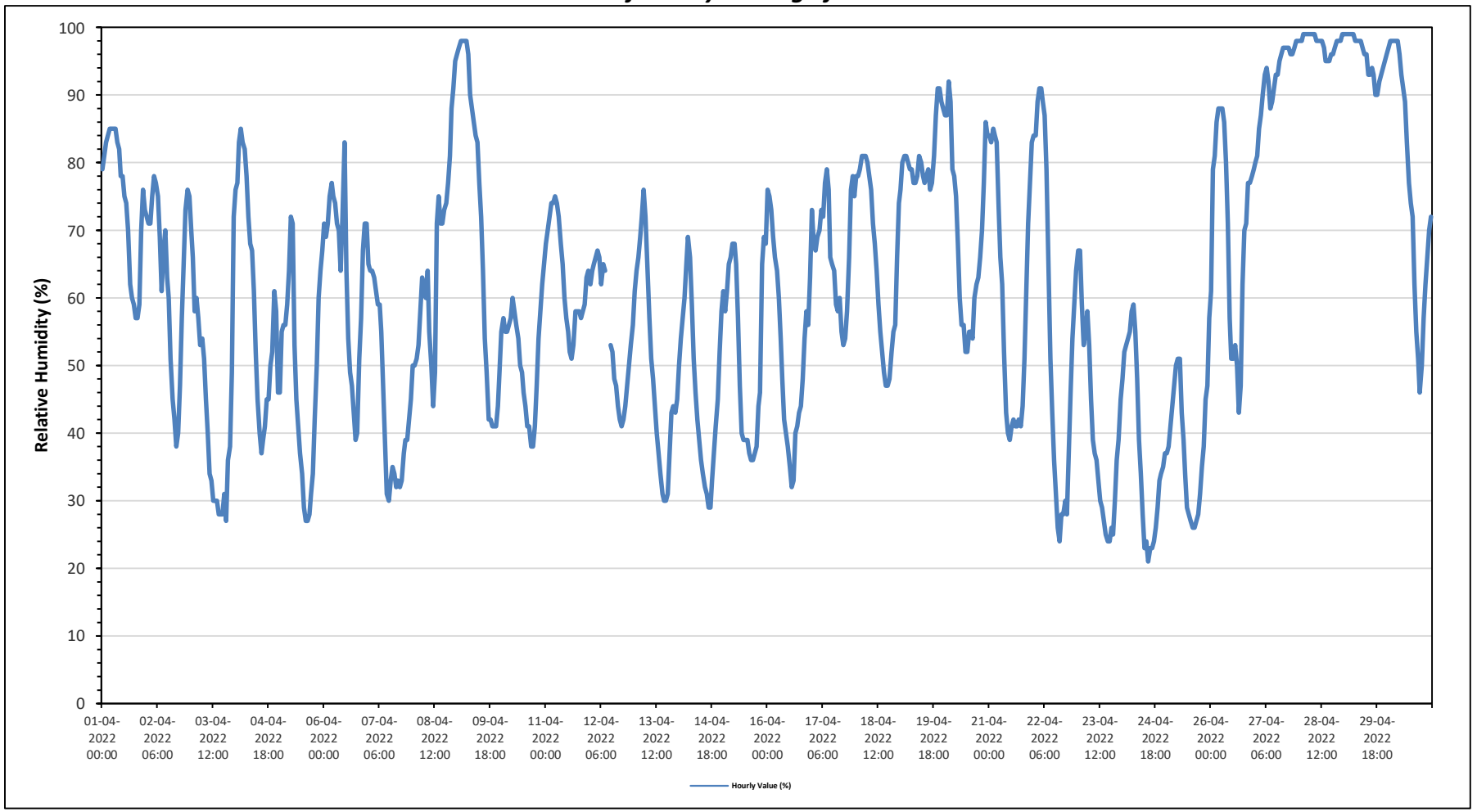
Maximum Hourly Value:	99	%	on April 28 at hour 2	Hours in Service:	720
Maximum Daily Value:	97.7	%	on April 28	Hours of Data:	718
Minimum Hourly Value:	21	%	on April 24 at hour 14	Hours of Missing Data:	2
Minimum Daily Value:	38.1	%	on April 24	Hours of Calibration:	0
Monthly Average:	61.8	%		Operational Uptime:	99.7

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			
Apr 1	79	81	83	84	85	85	85	85	83	82	78	78	75	74	70	62	60	59	57	57	59	70	76	73	57	85	74.2
Apr 2	72	71	71	75	78	77	75	69	61	67	70	63	60	51	45	42	38	40	47	57	65	73	76	75	38	78	63.3
Apr 3	70	66	58	60	57	53	54	51	45	40	34	33	30	30	30	28	28	28	31	27	36	38	49	72	27	72	43.7
Apr 4	76	77	83	85	83	82	78	72	68	67	61	52	45	40	37	39	41	45	45	50	52	61	58	46	37	85	60.1
Apr 5	46	55	56	56	59	64	72	71	53	45	41	37	34	29	27	27	28	31	34	42	50	60	64	67	27	72	47.8
Apr 6	71	69	71	75	77	75	74	71	70	64	72	83	64	54	49	47	43	39	40	51	57	67	71	71	39	83	63.5
Apr 7	65	64	64	63	61	59	59	55	47	39	31	30	33	35	34	32	33	32	33	37	39	39	42	45	30	65	44.6
Apr 8	50	50	51	53	58	63	61	60	64	55	50	44	49	71	75	71	71	73	74	77	81	88	91	95	44	95	65.6
Apr 9	96	97	98	98	98	98	96	90	88	86	84	83	77	72	64	54	49	42	42	41	41	41	44	49	41	98	72.0
Apr 10	55	57	55	55	56	57	60	58	56	54	50	49	46	44	41	41	38	38	41	47	54	58	62	65	38	65	51.5
Apr 11	68	70	72	74	74	75	74	72	68	65	60	57	55	52	51	53	58	58	58	57	58	59	63	64	51	75	63.1
Apr 12	62	64	65	66	67	66	62	65	64	**Y**	**Y**	53	52	48	47	44	42	41	42	44	47	50	53	56	41	67	54.5
Apr 13	61	64	66	69	72	76	72	64	57	51	48	44	40	37	34	31	30	30	31	37	43	44	43	45	30	76	49.5
Apr 14	50	54	57	60	65	69	66	59	51	46	42	39	36	34	32	31	29	29	33	37	41	45	52	58	29	69	46.5
Apr 15	61	58	61	65	66	68	68	65	57	47	40	39	39	39	37	36	36	37	38	44	46	65	69	68	36	69	52.0
Apr 16	76	75	73	69	66	64	60	54	48	42	40	38	35	32	33	40	41	43	44	48	54	58	56	63	32	76	52.2
Apr 17	73	68	67	69	70	73	72	77	79	76	66	65	64	59	58	60	55	53	54	58	66	76	78	75	53	79	67.1
Apr 18	78	78	79	81	81	81	80	78	76	71	68	64	59	55	52	49	47	47	48	52	55	56	66	74	47	81	65.6
Apr 19	76	80	81	81	80	79	79	77	77	78	81	80	78	77	78	79	76	77	81	87	91	91	89	88	76	91	80.9
Apr 20	87	87	92	89	79	78	75	68	60	56	56	52	52	55	55	54	60	62	63	66	70	77	86	84	52	92	69.3
Apr 21	84	83	85	84	83	74	66	62	52	43	40	39	41	42	41	41	42	41	44	51	61	71	77	83	39	85	59.6
Apr 22	84	84	89	91	91	89	87	79	64	51	43	36	31	26	24	28	28	30	28	37	46	54	59	64	24	91	56.0
Apr 23	67	67	59	53	55	58	53	45	39	37	36	33	30	29	27	25	24	24	26	25	30	36	39	45	24	67	40.1
Apr 24	48	52	53	54	55	58	59	55	48	39	34	28	23	24	**21**	23	23	24	26	29	33	34	35	37	**21**	59	38.1
Apr 25	37	38	41	44	47	50	51	51	43	39	34	29	28	27	26	26	27	28	31	35	38	45	47	57	26	57	38.3
Apr 26	61	79	81	86	88	88	88	86	80	71	57	51	51	53	50	43	47	62	70	71	77	77	78	79	43	88	69.8
Apr 27	80	81	85	87	90	93	94	92	88	89	91	93	93	95	96	97	97	97	97	96	96	97	98	98	80	98	92.5
Apr 28	98	98	**99**	**99**	**99**	**99**	**99**	**99**	**99**	98	98	98	98	97	95	95	95	96	96	97	98	98	98	**99**	95	**99**	**97.7**
Apr 29	**99**	**99**	**99**	**99**	**99**	**99**	98	98	98	98	97	96	96	93	93	94	93	90	90	92	93	94	95	96	90	**99**	95.8
Apr 30	97	98	98	98	98	98	96	93	91	89	83	77	74	72	62	55	51	46	50	57	62	66	70	72	46	98	77.2
Diurnal Maximum	99	99	99	99	99	99	99	99	99	98	98	98	98	97	96	97	97	97	97	97	98	98	98	99			
Diurnal Average	70.9	72.1	73.1	74.1	74.6	74.9	73.8	70.7	65.8	61.6	58.1	55.4	52.9	51.5	49.5	48.2	47.7	48.1	49.8	53.5	58.0	62.9	66.1	68.8			

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 - April 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

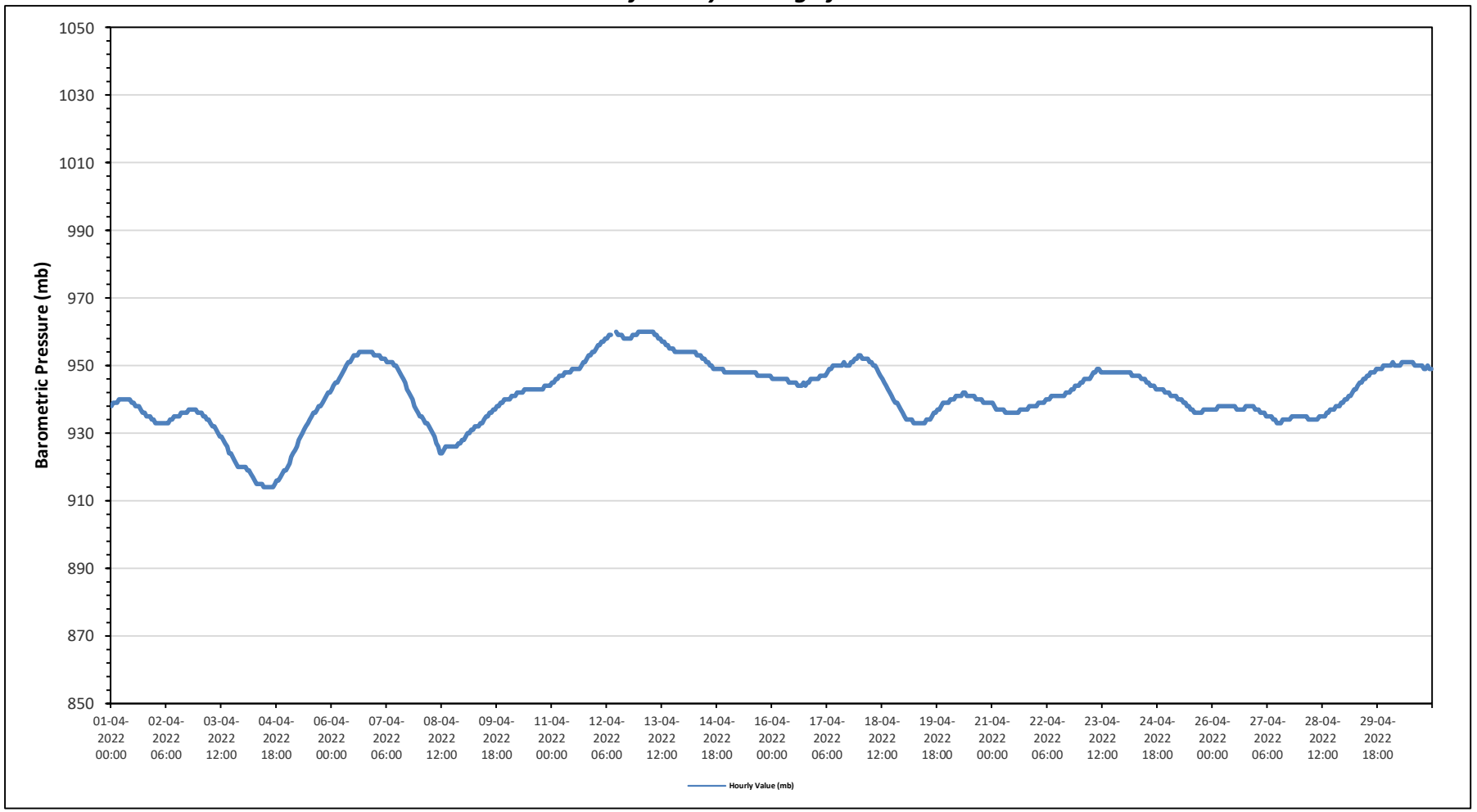
Maximum Hourly Value:	960	mb	on April 12 at hour 11	Hours in Service:	720
Maximum Daily Value:	958	mb	on April 12	Hours of Data:	718
Minimum Hourly Value:	914	mb	on April 4 at hour 11	Hours of Missing Data:	2
Minimum Daily Value:	916	mb	on April 4	Hours of Calibration:	0
Monthly Average:	941	mb		Operational Uptime:	99.7

Day	Hourly Period Starting at (MST)																						Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Apr 1	938	939	939	939	940	940	940	940	940	940	940	939	939	938	938	938	937	936	936	935	935	935	934	934	934	940	938
Apr 2	933	933	933	933	933	933	933	933	934	934	935	935	935	935	936	936	936	936	937	937	937	937	937	936	933	937	935
Apr 3	936	936	935	935	934	934	933	932	932	931	930	929	929	928	927	926	924	924	923	922	921	920	920	920	920	936	928
Apr 4	920	920	919	919	918	917	916	915	915	915	915	**914**	**914**	**914**	**914**	**914**	**914**	915	916	916	917	918	919	919	**914**	920	916
Apr 5	920	921	923	924	925	926	928	929	930	931	932	933	934	935	936	936	937	938	938	939	940	941	942	942	920	942	933
Apr 6	943	944	945	945	946	947	948	949	950	951	951	952	953	953	953	954	954	954	954	954	954	954	954	953	943	954	951
Apr 7	953	953	953	952	952	952	951	951	951	951	950	950	949	948	947	946	945	943	942	941	940	938	937	936	936	953	947
Apr 8	935	935	934	933	933	932	931	930	929	927	926	924	924	925	926	926	926	926	926	926	926	927	927	928	924	935	928
Apr 9	928	929	930	930	931	931	932	932	932	933	933	934	935	935	936	936	937	937	938	938	939	939	940	940	928	940	934
Apr 10	940	940	941	941	941	942	942	942	942	943	943	943	943	943	943	943	943	943	943	943	944	944	944	944	940	944	943
Apr 11	945	945	946	946	947	947	947	948	948	948	948	949	949	949	949	949	950	951	951	952	953	953	954	954	945	954	949
Apr 12	955	956	956	957	957	958	958	959	959	**Y**	**Y**	**960**	959	959	959	958	958	958	958	958	959	959	959	**960**	955	**960**	**958**
Apr 13	**960**	**960**	**960**	**960**	**960**	**960**	**960**	**960**	959	959	958	958	957	957	956	956	955	955	955	954	954	954	954	954	954	**960**	957
Apr 14	954	954	954	954	954	954	954	953	953	953	952	952	951	951	950	950	949	949	949	949	949	949	948	948	948	954	951
Apr 15	948	948	948	948	948	948	948	948	948	948	948	948	948	948	948	948	947	947	947	947	947	947	947	947	947	948	948
Apr 16	946	946	946	946	946	946	946	946	946	945	945	945	945	945	944	944	944	945	944	945	945	946	946	946	944	946	945
Apr 17	946	946	947	947	947	947	948	949	949	950	950	950	950	950	950	951	950	950	950	951	951	952	952	953	946	953	949
Apr 18	953	952	952	952	952	951	951	950	950	949	948	947	946	945	944	943	942	941	940	939	939	938	937	936	936	953	946
Apr 19	935	934	934	934	934	933	933	933	933	933	933	933	934	934	934	935	936	936	937	937	938	939	939	939	933	939	935
Apr 20	939	940	940	940	941	941	941	941	942	942	941	941	941	941	941	940	940	940	940	939	939	939	939	939	939	942	940
Apr 21	939	938	937	937	937	937	937	936	936	936	936	936	936	936	936	937	937	937	937	937	938	938	938	938	936	939	937
Apr 22	938	939	939	939	939	940	940	940	941	941	941	941	941	941	941	941	942	942	942	943	943	944	944	944	938	944	941
Apr 23	945	945	946	946	946	946	947	948	948	949	949	948	948	948	948	948	948	948	948	948	948	948	948	948	945	949	947
Apr 24	948	948	948	948	947	947	947	947	947	946	946	946	945	945	944	944	944	943	943	943	943	943	942	942	942	948	945
Apr 25	942	941	941	941	941	940	940	940	939	939	938	938	937	937	936	936	936	936	936	937	937	937	937	937	936	942	938
Apr 26	937	937	937	938	938	938	938	938	938	938	938	938	938	937	937	937	937	937	938	938	938	938	938	937	937	938	938
Apr 27	937	937	936	936	936	935	935	935	935	934	934	933	933	933	934	934	934	934	934	935	935	935	935	935	933	937	935
Apr 28	935	935	935	935	934	934	934	934	934	934	935	935	935	935	936	936	937	937	937	938	938	938	939	939	934	939	936
Apr 29	940	940	941	941	942	943	943	944	945	945	946	946	947	947	948	948	948	949	949	949	949	950	950	950	940	950	946
Apr 30	950	950	951	950	950	950	950	951	951	951	951	951	951	951	950	950	950	950	950	949	949	950	949	949	949	951	950
Diurnal Maximum	960	960	960	960	960	960	960	960	959	959	958	960	959	959	959	958	958	958	958	958	959	959	959	960			
Diurnal Average	941	941	942	942	942	942	942	942	942	941	941	942	942	941	941	941	941	941	941	941	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 - 986c Station



peace river area monitoring program
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PEACE RIVER AREA MONITORING PROGRAM

986c Station - April 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

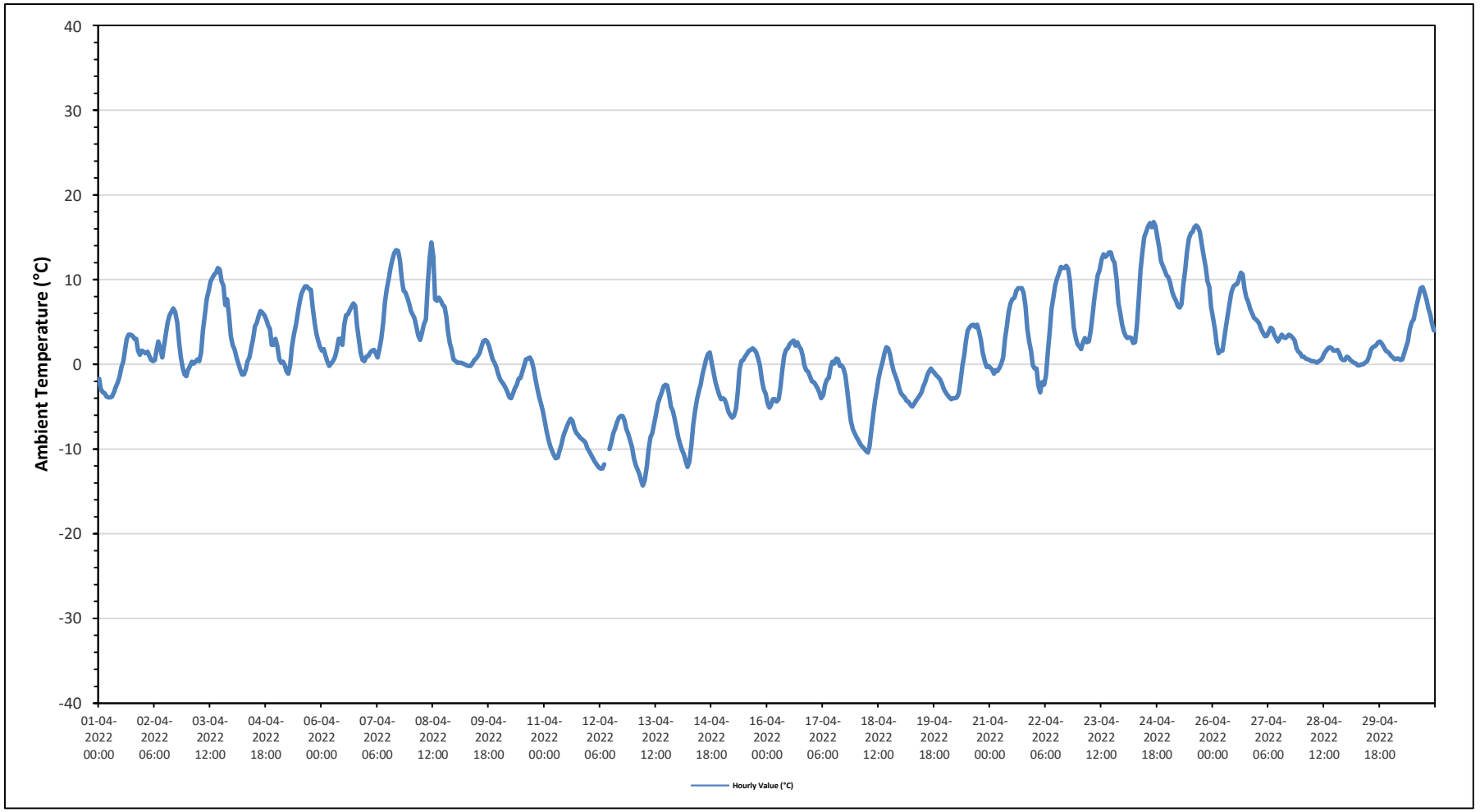
Maximum Hourly Value:	16.8	°C	on April 24 at hour 16	Hours in Service:	720
Maximum Daily Value:	11.4	°C	on April 25	Hours of Data:	718
Minimum Hourly Value:	-14.3	°C	on April 13 at hour 5	Hours of Missing Data:	2
Minimum Daily Value:	-9.3	°C	on April 12	Hours of Calibration:	0
Monthly Average:	1.4	°C		Operational Uptime:	99.7

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			
Apr 1	-1.7	-2.9	-3.3	-3.4	-3.8	-3.9	-3.9	-3.8	-3.3	-2.7	-2.1	-1.4	-0.3	0.4	1.6	3	3.5	3.5	3.4	3	3	1.6	1.1	1.6	-3.9	3.5	-0.5
Apr 2	1.5	1.3	1.5	1	0.5	0.4	0.5	1.6	2.7	1.9	0.8	2.2	3.6	5	5.8	6.2	6.6	6.2	5	2.7	0.8	-0.4	-1.2	-1.4	-1.4	6.6	2.3
Apr 3	-0.7	-0.2	0.3	0.1	0.3	0.6	0.4	1.4	4	6	7.8	8.7	9.8	10.2	10.6	10.8	11.4	11.2	9.8	9.3	7	7.7	5.9	3.4	-0.7	11.4	5.7
Apr 4	2.3	1.7	0.8	0.1	-0.6	-1.2	-1.2	-0.6	0.4	0.8	2.1	3	4.5	4.9	5.7	6.3	6.1	5.8	5.3	4.6	4.2	2.3	2.3	3	-1.2	6.3	2.6
Apr 5	2.2	0.6	0.2	0.3	-0.1	-0.8	-1.1	-0.1	2.1	3.6	4.6	6	7.3	8.3	8.8	9.2	9.2	8.9	8.8	6.7	5	3.6	2.9	2.1	-1.1	9.2	4.1
Apr 6	1.6	1.8	1	0.3	-0.2	0.1	0.4	0.8	1.6	3	3	2.3	4.6	5.8	5.9	6.4	6.8	7.2	6.9	4.5	2.9	1.3	0.5	0.4	-0.2	7.2	2.9
Apr 7	0.9	1	1.4	1.6	1.7	1.3	0.8	1.8	3	4.8	7.3	8.9	10	11.3	12.3	13.1	13.5	13.4	12.3	10.1	8.7	8.5	7.9	7.2	0.8	13.5	6.8
Apr 8	6.3	5.8	5.4	4.4	3.4	2.9	3.7	4.7	5.3	9.4	12.5	14.4	12.8	7.7	7.5	7.9	7.5	7	6.8	5.6	3.9	2.5	1.7	0.6	0.6	14.4	6.2
Apr 9	0.4	0.2	0.2	0.2	0.1	0	-0.1	-0.2	-0.2	0.1	0.5	0.7	1	1.3	2	2.7	2.9	2.7	2.2	1.4	0.6	0.2	-0.3	-1.1	-1.1	2.9	0.7
Apr 10	-1.8	-2.1	-2.4	-2.8	-3.3	-3.9	-4	-3.4	-2.8	-2.4	-1.7	-1.6	-0.9	-0.2	0.6	0.7	0.8	0.4	-0.5	-1.7	-2.8	-3.8	-4.6	-5.5	-5.5	0.8	-2.1
Apr 11	-6.6	-7.8	-8.8	-9.6	-10.2	-10.7	-11.1	-11	-10.2	-9.5	-8.5	-7.9	-7.3	-6.8	-6.4	-6.7	-7.6	-8.1	-8.3	-8.6	-8.8	-9	-9.2	-9.9	-11.1	-6.4	-8.7
Apr 12	-10.3	-10.7	-11.1	-11.5	-11.8	-12.1	-12.3	-12.3	-11.8	Y	Y	-10	-9.2	-8.2	-7.6	-6.8	-6.3	-6.1	-6.1	-6.6	-7.6	-8.2	-8.9	-9.8	-12.3	-6.1	-9.3
Apr 13	-11.1	-11.9	-12.4	-13	-13.8	**-14.3**	-13.7	-12.1	-10	-8.6	-8.1	-7	-5.9	-4.7	-4	-3.3	-2.6	-2.4	-2.5	-3.6	-5	-5.5	-6.4	-7.5	**-14.3**	-2.4	-7.9
Apr 14	-8.6	-9.4	-10.1	-10.6	-11.4	-12.1	-11.5	-9.5	-7.1	-5.5	-4.2	-3.2	-2.4	-1.2	-0.3	0.6	1.2	1.4	0.2	-0.9	-2	-2.8	-3.6	-4.1	-12.1	1.4	-4.9
Apr 15	-4	-4.2	-4.8	-5.6	-6	-6.3	-6.1	-5.2	-3.1	-0.7	0.4	0.5	0.9	1.2	1.6	1.7	1.9	1.7	1.4	0.7	-0.2	-1.8	-2.9	-3.5	-6.3	1.9	-1.8
Apr 16	-4.6	-5.1	-4.8	-4.1	-4.1	-4.4	-4.1	-2.7	-0.7	1	1.7	1.9	2.4	2.6	2.8	2.2	2.6	2.1	1.8	1	-0.1	-0.7	-0.9	-1.5	-5.1	2.8	-0.7
Apr 17	-2	-2.1	-2.4	-2.8	-3.3	-4	-3.6	-2.4	-1.8	-1.6	-0.3	0.3	0.1	0.7	0.6	-0.2	-0.1	-0.5	-1.3	-3	-4.9	-6.7	-7.7	-8.2	-8.2	0.7	-2.4
Apr 18	-8.6	-9	-9.4	-9.7	-9.9	-10.2	-10.4	-9.7	-7.8	-6	-4.3	-3	-1.6	-0.6	0.3	1.3	2	1.9	1.2	0.1	-0.8	-1.4	-2.1	-2.9	-10.4	2.0	-4.2
Apr 19	-3.4	-3.7	-3.9	-4.3	-4.4	-4.8	-5	-4.7	-4.3	-4	-3.7	-3.3	-2.6	-2.1	-1.3	-0.8	-0.5	-0.8	-1	-1.3	-1.5	-1.8	-2.3	-2.9	-5.0	-0.5	-2.9
Apr 20	-3.3	-3.6	-3.9	-4.1	-4	-4	-3.9	-3.4	-1.9	-0.1	1.1	2.7	4	4.4	4.6	4.7	4.4	4.7	3.9	2.9	1.4	0.4	-0.3	-0.2	-4.1	4.7	0.3
Apr 21	-0.4	-0.6	-1.1	-0.7	-0.8	-0.4	0.1	0.8	3	4.5	6.2	7.2	7.7	7.9	8.7	9	9	9	8.4	6.9	4.2	2.5	1.6	-0.1	-1.1	9.0	3.9
Apr 22	-0.5	-0.5	-2.5	-3.3	-2.1	-2.4	-1.3	1.4	3.8	6.5	7.9	9.3	10.1	10.8	11.5	11.4	11.4	11.6	11.3	9.9	6.9	4.3	3.2	2.4	-3.3	11.6	5.0
Apr 23	2.1	1.8	2.6	3.1	2.6	2.7	3.9	5.7	7.7	9.1	10.5	11.1	12.4	13	12.7	12.9	13.2	13.2	12.4	12	10	7.2	6	4.7	1.8	13.2	8.0
Apr 24	3.8	3.3	3.1	3.2	3.1	2.5	2.6	4.5	7.6	11.1	13.2	15	15.7	16.3	16.7	16.2	**16.8**	16.3	15	13.8	12.2	11.6	11.1	10.5	2.5	**16.8**	10.2
Apr 25	10.3	9.6	8.6	8	7.5	6.9	6.7	7.1	9.4	11.1	13.3	14.8	15.5	15.6	16.2	16.4	16.2	15.6	14.2	12.9	11.5	9.8	9.1	6.7	6.7	16.4	**11.4**
Apr 26	5.5	4.2	2.4	1.3	1.6	1.6	2.9	4.4	5.8	7.2	8.5	9.2	9.4	9.5	10.1	10.8	10.6	8.9	7.9	7.4	6.5	6	5.5	5.3	1.3	10.8	6.4
Apr 27	5.1	4.8	4.2	3.7	3.3	3.4	3.8	4.3	4.2	3.5	3.1	2.7	3.1	3.5	3.2	3.1	3.3	3.5	3.4	3.1	2.8	1.9	1.5	1.3	1.3	5.1	3.3
Apr 28	0.9	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.2	0.4	0.5	0.8	1.3	1.6	1.9	2	1.9	1.6	1.6	1.7	1.3	0.7	0.5	0.5	0.2	2.0	1.0
Apr 29	0.9	0.8	0.5	0.3	0.2	0.1	-0.1	-0.1	0	0	0.2	0.4	0.9	1.7	2	2.1	2.3	2.6	2.7	2.4	2	1.6	1.5	1.3	-0.1	2.7	1.1
Apr 30	1	0.8	0.6	0.7	0.7	0.5	0.6	1.3	2	2.7	4.1	5	5.3	6.4	7.3	8.1	9	9.1	8.4	7.6	6.6	5.9	4.8	4	0.5	9.1	4.3
Diurnal Maximum	10.3	9.6	8.6	8.0	7.5	6.9	6.7	7.1	9.4	11.1	13.3	15.0	15.7	16.3	16.7	16.4	16.8	16.3	15.0	13.8	12.2	11.6	11.1	10.5			
Diurnal Average	-0.8	-1.2	-1.6	-1.9	-2.1	-2.4	-2.2	-1.4	-0.1	1.6	2.6	3.0	3.7	4.2	4.7	5.0	5.2	5.1	4.5	3.5	2.3	1.3	0.6	-0.1			

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

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

Timeseries Chart of Hourly Average for AT - 986c Station



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PEACE RIVER AREA MONITORING PROGRAM

986c Station - April 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

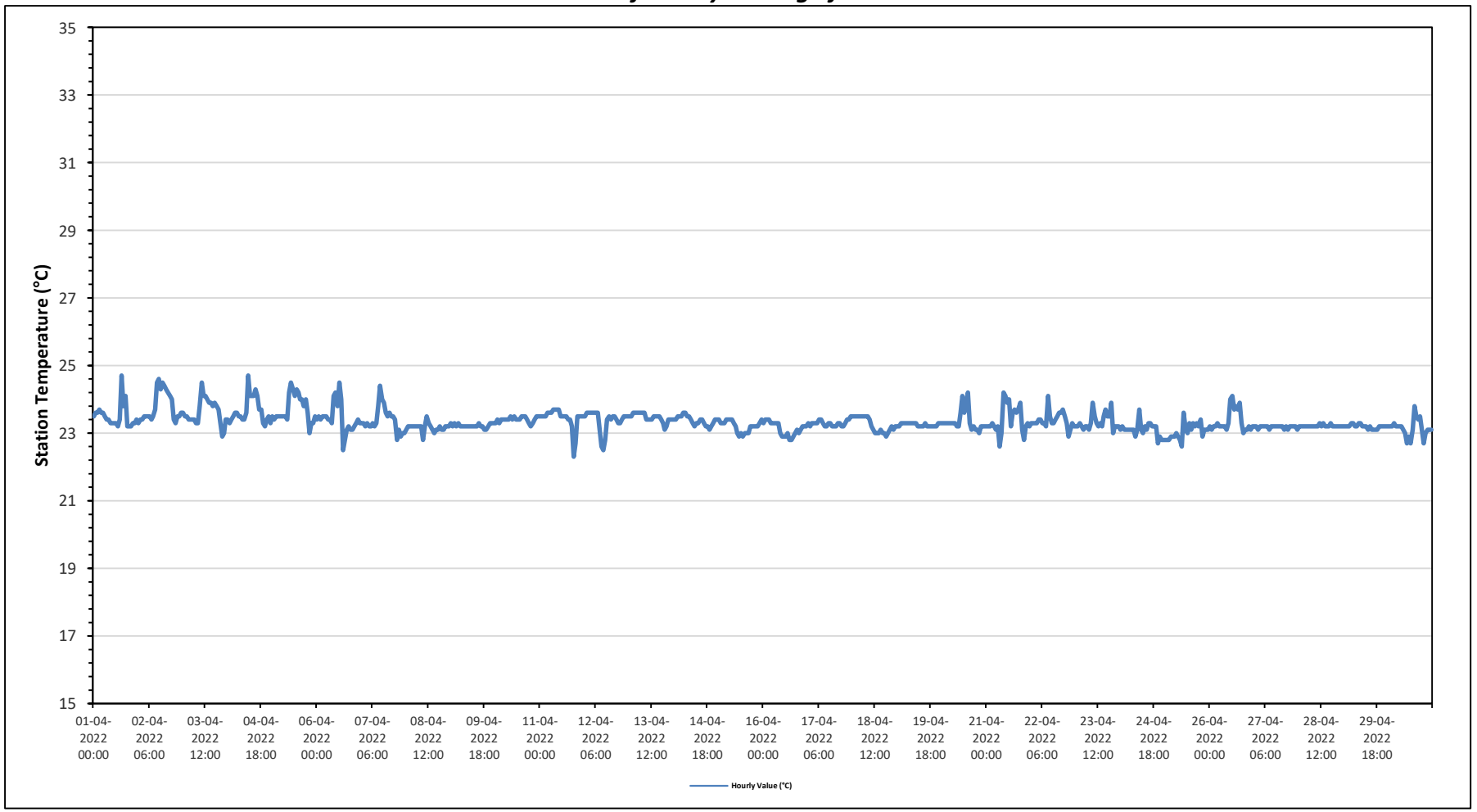
Maximum Hourly Value:	24.7	°C	on April 1 at hour 15	Hours in Service:	720
Maximum Daily Value:	23.8	°C	on April 2	Hours of Data:	720
Minimum Hourly Value:	22.3	°C	on April 11 at hour 18	Hours of Missing Data:	0
Minimum Daily Value:	23.0	°C	on April 25	Hours of Calibration:	0
Monthly Average:	23.3	°C		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
Apr 1	23.5	23.6	23.6	23.7	23.6	23.6	23.5	23.4	23.4	23.3	23.3	23.3	23.3	23.2	23.4	**24.7**	23.8	24.1	23.2	23.2	23.2	23.3	23.3	23.4	23.2	**24.7**	23.5
Apr 2	23.3	23.4	23.4	23.5	23.5	23.5	23.5	23.4	23.5	23.7	24.5	24.6	24.3	24.5	24.4	24.3	24.2	24.1	24.0	23.4	23.3	23.5	23.5	23.6	23.3	24.6	**23.8**
Apr 3	23.6	23.5	23.5	23.4	23.4	23.4	23.4	23.3	23.3	23.8	24.5	24.1	24.1	24.0	23.9	23.9	23.8	23.9	23.8	23.7	23.3	22.9	23.0	23.4	22.9	24.5	23.6
Apr 4	23.4	23.3	23.4	23.5	23.6	23.6	23.5	23.5	23.4	23.4	23.6	**24.7**	24.1	24.1	24.1	24.3	24.1	23.7	23.7	23.3	23.2	23.4	23.5	23.3	23.2	**24.7**	23.7
Apr 5	23.5	23.4	23.5	23.5	23.5	23.5	23.5	23.5	23.4	24.2	24.5	24.3	24.1	24.3	24.2	24.0	24.0	23.8	24.0	23.6	23.0	23.3	23.3	23.5	23.0	24.5	23.7
Apr 6	23.4	23.5	23.4	23.5	23.5	23.5	23.4	23.4	23.3	24.1	24.2	23.8	24.5	24.0	22.5	22.8	23.1	23.2	23.1	23.1	23.2	23.3	23.4	23.3	22.5	24.5	23.4
Apr 7	23.3	23.3	23.2	23.3	23.2	23.2	23.3	23.2	23.3	23.8	24.4	24.0	23.9	23.6	23.5	23.6	23.5	23.5	23.4	22.8	23.1	22.9	23.0	23.0	22.8	24.4	23.4
Apr 8	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	22.8	23.2	23.5	23.3	23.2	23.1	23.0	23.1	23.1	23.2	23.1	23.1	23.2	23.2	23.2	22.8	23.5	23.2
Apr 9	23.3	23.2	23.3	23.2	23.3	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.2	23.2	23.1	23.1	23.2	23.3	23.3	23.3	23.1	23.3	23.2
Apr 10	23.3	23.4	23.3	23.4	23.4	23.4	23.4	23.4	23.5	23.4	23.5	23.4	23.4	23.4	23.5	23.5	23.5	23.4	23.3	23.2	23.3	23.4	23.5	23.5	23.2	23.5	23.4
Apr 11	23.5	23.5	23.5	23.5	23.6	23.6	23.6	23.7	23.7	23.7	23.7	23.5	23.5	23.5	23.5	23.4	23.4	23.2	**22.3**	22.7	23.5	23.5	23.5	23.5	**22.3**	23.7	23.4
Apr 12	23.5	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.1	22.6	22.5	22.8	23.4	23.5	23.4	23.5	23.5	23.4	23.3	23.3	23.4	23.5	23.5	23.5	22.5	23.6	23.4
Apr 13	23.5	23.5	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.4	23.4	23.4	23.4	23.5	23.5	23.5	23.5	23.4	23.3	23.1	23.2	23.4	23.4	23.4	23.1	23.6	23.5
Apr 14	23.4	23.4	23.5	23.5	23.5	23.6	23.6	23.5	23.5	23.4	23.3	23.2	23.3	23.3	23.4	23.4	23.3	23.2	23.2	23.1	23.2	23.3	23.4	23.4	23.1	23.6	23.4
Apr 15	23.4	23.3	23.3	23.3	23.4	23.4	23.4	23.4	23.3	23.2	23.0	22.9	23.0	22.9	23.0	23.0	23.0	23.2	23.2	23.2	23.2	23.2	23.3	23.4	22.9	23.4	23.2
Apr 16	23.3	23.4	23.4	23.4	23.3	23.3	23.3	23.3	23.3	23.0	22.9	22.9	22.9	23.0	22.8	22.8	22.9	23.0	23.1	23.0	23.1	23.2	23.2	23.2	22.8	23.4	23.1
Apr 17	23.3	23.2	23.3	23.3	23.3	23.3	23.4	23.4	23.3	23.2	23.2	23.3	23.3	23.2	23.2	23.2	23.3	23.3	23.2	23.2	23.3	23.4	23.4	23.5	23.2	23.5	23.3
Apr 18	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.4	23.2	23.1	23.0	23.0	23.0	23.1	23.0	23.0	22.9	23.0	23.1	23.2	23.1	23.2	22.9	23.5	23.2
Apr 19	23.2	23.2	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.2	23.2	23.2	23.2	23.3	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.3	23.2	23.3	23.3
Apr 20	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.2	23.2	23.6	24.1	23.6	23.9	24.2	23.3	23.1	23.2	23.1	23.1	23.0	23.2	23.2	23.2	23.0	24.2	23.4
Apr 21	23.2	23.2	23.2	23.3	23.2	23.1	23.2	22.6	23.0	24.2	24.1	23.9	24.0	23.2	23.6	23.7	23.6	23.7	23.9	23.1	22.8	23.2	23.3	23.2	22.6	24.2	23.4
Apr 22	23.3	23.3	23.3	23.3	23.4	23.4	23.3	23.3	23.2	24.1	23.5	23.3	23.3	23.4	23.5	23.6	23.6	23.7	23.5	23.3	22.9	23.1	23.3	23.2	22.9	24.1	23.4
Apr 23	23.2	23.2	23.3	23.2	23.1	23.2	23.2	23.1	23.3	23.9	23.5	23.3	23.2	23.3	23.2	23.5	23.7	23.5	23.5	23.9	23.0	23.2	23.2	23.2	23.0	23.9	23.3
Apr 24	23.1	23.2	23.1	23.1	23.1	23.1	23.1	23.1	22.9	23.1	23.7	23.1	23.0	23.2	23.1	23.3	23.3	23.2	23.2	23.2	22.7	22.9	22.8	22.8	22.7	23.7	23.1
Apr 25	22.8	22.8	22.8	22.9	22.9	22.9	23.0	22.9	22.8	22.6	23.6	23.1	23.0	23.3	23.1	23.3	23.2	23.3	23.2	23.4	22.9	23.1	23.1	23.1	22.6	23.6	23.0
Apr 26	23.2	23.1	23.2	23.2	23.3	23.2	23.2	23.2	23.2	23.1	23.3	24.0	24.1	23.7	23.8	23.7	23.9	23.3	23.0	23.1	23.1	23.2	23.1	23.2	23.0	24.1	23.4
Apr 27	23.2	23.2	23.1	23.2	23.2	23.2	23.2	23.2	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.1	23.2	23.1	23.2	23.2	23.2	23.2	23.1	23.1	23.2	23.2
Apr 28	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.2	23.3	23.2	23.2	23.2	23.3	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.3	23.2
Apr 29	23.2	23.2	23.2	23.2	23.3	23.3	23.2	23.2	23.3	23.3	23.2	23.2	23.2	23.1	23.2	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.2	23.2	23.1	23.3	23.2
Apr 30	23.2	23.2	23.2	23.3	23.2	23.2	23.2	23.2	23.1	23.0	22.7	22.9	22.7	23.1	23.8	23.5	23.4	23.5	23.1	22.7	23.0	23.1	23.1	23.1	22.7	23.8	23.1
Diurnal Maximum	23.6	23.6	23.6	23.7	23.6	23.6	23.6	23.7	23.7	24.2	24.5	24.7	24.5	24.5	24.4	24.7	24.2	24.1	24.0	23.9	23.5	23.5	23.5	23.6			
Diurnal Average	23.3	23.3	23.3	23.3	23.4	23.3	23.3	23.3	23.3	23.4	23.5	23.5	23.5	23.4	23.4	23.5	23.4	23.4	23.3	23.2	23.1	23.2	23.3	23.3			

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 - 986c Station



peace river area monitoring program
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PEACE RIVER AREA MONITORING PROGRAM

986c Station - April 2022

Summary of Hourly Averages

PRECIPITATION in mm

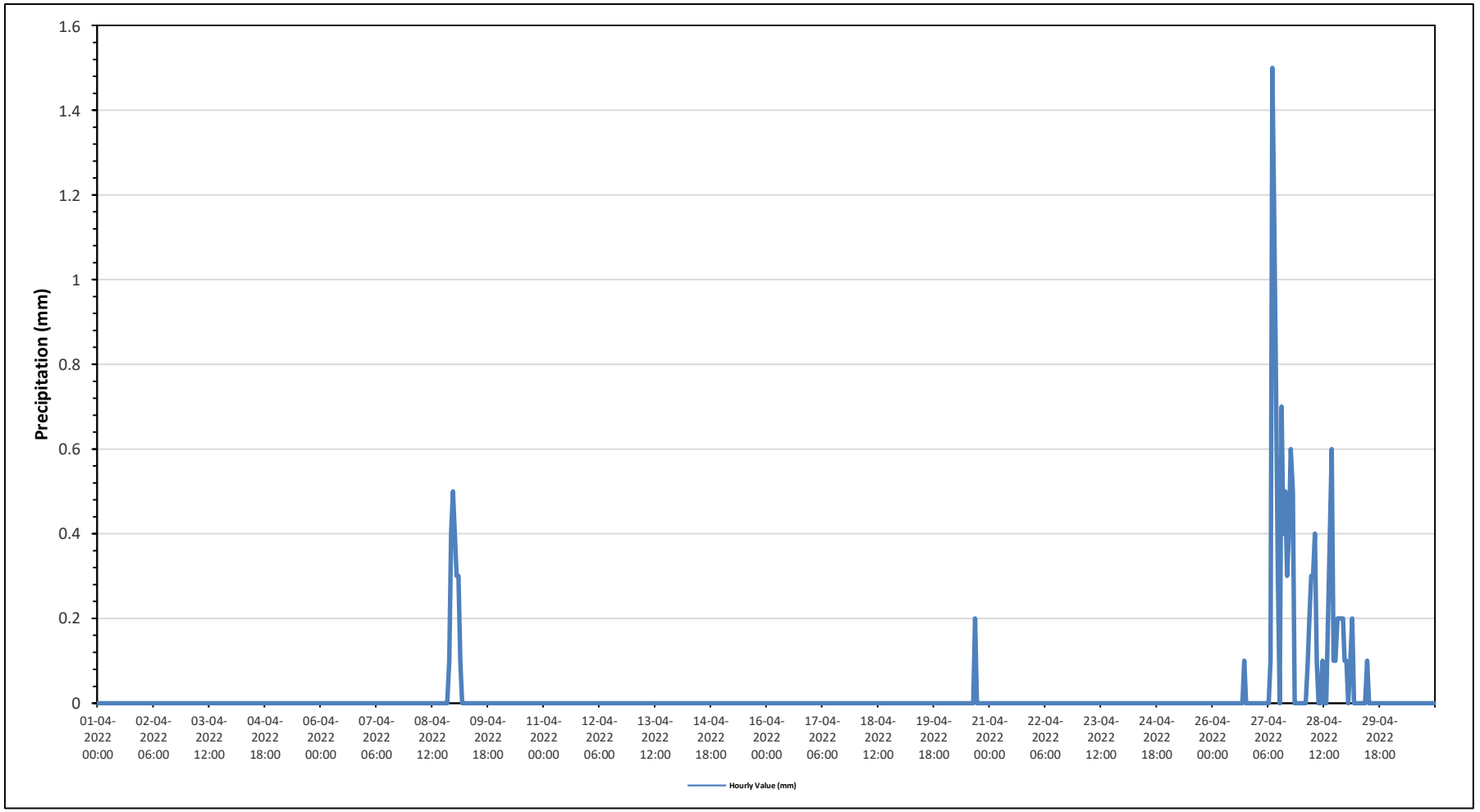
Maximum Hourly Value:	1.5	mm	on April 27 at hour 8	Hours in Service:	720
Maximum Daily Value:	7.3	mm	on April 27	Hours of Data:	720
Minimum Hourly Value:	0.0	mm	on April 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	mm	on April 1	Hours of Calibration:	0
Monthly Total:	14.0	mm		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.4	0.5	0.0	0.5	1.0
Apr 9	0.4	0.3	0.3	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4	1.1
Apr 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 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
Apr 20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0.0	0.2	0.2
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 26	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	0.1	0.1
Apr 27	0	0	0	0	0	0	0	0.1	**1.5**	1.2	0.8	0.3	0	0.7	0.4	0.5	0.3	0.4	0.6	0.5	0	0	0	0	0.0	**1.5**	**7.3**
Apr 28	0	0	0	0.1	0.2	0.3	0.3	0.4	0.1	0	0	0.1	0	0	0.2	0.4	0.6	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.6	3.8
Apr 29	0.1	0	0.1	0.2	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	0.5
Apr 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.4	1.5	1.2	0.8	0.3	0.0	0.7	0.4	0.5	0.6	0.4	0.6	0.5	0.2	0.2	0.4	0.5			
Diurnal Average	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	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



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - April 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

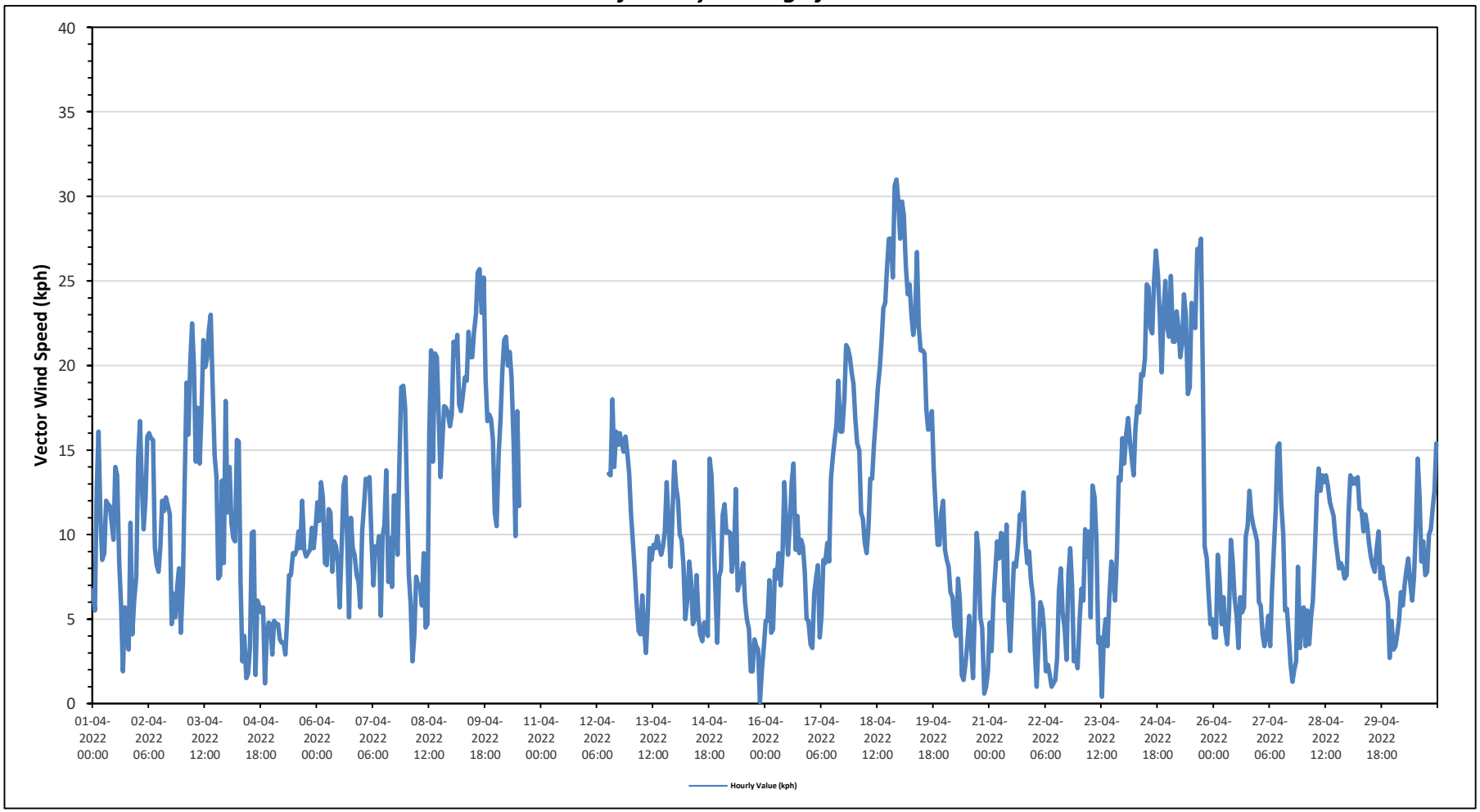
Maximum Hourly Value:	31.0	kph	on April 18 at hour 22	Hours in Service:	720
Maximum Daily Value:	19.5	kph	on April 24	Hours of Data:	673
Minimum Hourly Value:	0.1	kph	on April 15 at hour 21	Hours of Missing Data:	43
Minimum Daily Value:	1.7	kph	on April 20	Hours of Calibration:	4
Monthly Average:	2.0	kph		Operational Uptime:	94.0

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Apr 1	6.7	5.5	12.7	16.1	11.2	8.5	8.9	12.0	11.8	11.7	10.7	9.7	14.0	13.5	8.3	5.8	1.9	5.7	4.1	3.2	10.7	4.1	6.1	7.5	1.9	16.1	5.3
Apr 2	14.4	16.7	13.1	10.3	12.0	15.8	16.0	15.7	15.6	9.2	8.2	7.8	9.3	12.0	11.4	12.2	11.7	11.2	4.7	6.5	5.1	6.9	8.0	4.2	4.2	16.7	5.9
Apr 3	7.2	13.3	19.0	15.9	20.2	22.5	20.0	14.3	17.5	14.2	17.3	21.5	19.9	20.4	22.1	23.0	19.0	14.7	13.4	7.4	7.6	13.2	8.3	17.9	7.2	23.0	11.3
Apr 4	11.3	14.0	10.7	9.8	9.6	15.6	15.5	7.2	2.5	4.0	1.5	1.8	3.4	10.1	10.2	1.7	6.1	5.8	5.4	5.7	1.2	4.0	4.8	4.7	1.2	15.6	2.9
Apr 5	2.9	4.9	4.7	4.7	3.8	3.6	3.6	2.9	5.1	7.6	7.6	8.9	8.8	9.1	10.2	9.2	12.0	9.1	8.7	8.9	9.1	10.4	9.2	10.3	2.9	12.0	6.0
Apr 6	11.9	10.8	13.1	12.2	8.3	8.2	11.5	11.3	7.8	9.6	9.3	8.4	5.7	9.4	12.9	13.4	9.6	5.1	11.0	9.2	8.8	7.6	7.2	5.7	5.1	13.4	8.3
Apr 7	10.2	11.7	13.3	13.1	13.4	9.5	7.0	9.3	8.9	9.9	5.2	9.9	10.6	13.8	7.2	9.8	6.9	12.3	12.3	8.8	14.2	18.7	18.8	17.5	5.2	18.8	9.0
Apr 8	12.4	7.6	5.9	2.5	4.0	7.5	7.0	7.0	5.8	8.9	4.5	4.7	15.9	20.9	14.3	20.7	20.5	17.1	13.4	15.5	17.6	17.5	17.2	16.4	2.5	20.9	8.3
Apr 9	17.1	21.4	20.6	21.8	17.7	17.3	18.2	19.3	19.1	22.0	20.5	20.5	22.0	23.0	25.5	25.7	23.1	25.2	19.2	16.7	17.1	16.8	15.6	11.3	11.3	25.7	19.2
Apr 10	10.5	14.8	16.8	19.7	21.5	21.7	20.0	20.8	19.3	15.4	9.9	17.3	11.7	X	X	X	X	X	X	X	X	X	X	X	9.9	21.7	-
Apr 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C	C	NRM	NRM	NRM	NRM	NRM			-
Apr 12	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	13.6	13.5	18.0	14.0	16.1	15.3	16.0	15.4	14.9	15.8	14.8	13.6	13.5	18.0	-
Apr 13	11.2	9.6	7.9	6.0	4.3	4.1	6.4	4.4	3.0	5.4	9.2	8.5	9.4	9.2	9.9	9.3	8.8	9.3	10.2	13.1	10.8	8.1	11.1	14.3	3.0	14.3	7.2
Apr 14	12.8	12.1	10.0	9.7	8.2	5.0	6.2	8.4	7.3	4.7	5.0	7.6	5.2	4.1	3.7	4.8	4.8	4.0	14.5	13.5	10.5	7.2	3.6	7.5	3.6	14.5	6.2
Apr 15	7.9	11.2	11.8	10.1	10.2	10.1	7.8	9.0	12.7	6.7	7.1	7.7	8.3	6.0	5.0	4.4	1.9	1.9	3.8	3.4	3.2	**0.1**	1.9	3.4	**0.1**	12.7	5.3
Apr 16	4.9	4.9	7.3	4.2	4.4	7.9	7.4	8.9	7.0	8.8	13.1	10.6	8.8	10.6	13.1	14.2	9.1	11.1	8.9	9.7	9.3	7.8	5.0	4.9	4.2	14.2	8.2
Apr 17	3.5	3.3	6.5	7.4	8.2	3.9	5.2	8.5	8.3	9.5	8.4	13.3	14.6	15.6	16.5	19.1	16.1	16.1	18.0	21.2	21.0	20.5	19.6	18.9	3.3	21.2	11.0
Apr 18	16.8	15.4	15.0	11.3	10.9	9.5	8.9	10.4	13.3	13.3	15.3	17.0	18.7	19.8	21.4	23.4	23.7	25.8	27.5	27.5	25.2	30.6	**31.0**	29.7	8.9	**31.0**	17.4
Apr 19	27.5	29.7	28.9	25.8	24.2	24.8	23.0	21.8	22.7	26.7	22.3	20.9	20.9	20.7	17.4	16.2	16.7	17.3	13.9	11.7	9.4	9.4	11.3	12.0	9.4	29.7	18.7
Apr 20	9.1	8.5	8.1	6.6	6.3	4.5	4.0	7.4	6.1	1.7	1.4	2.3	3.5	5.2	3.5	1.5	5.7	10.1	8.9	5.1	4.5	0.6	1.0	1.9	0.6	10.1	**1.7**
Apr 21	4.8	3.1	6.2	7.8	9.6	8.6	10.1	10.0	6.1	10.6	5.1	3.1	5.7	8.3	8.1	9.4	11.2	10.9	12.5	9.6	8.3	9.0	7.3	6.3	3.1	12.5	4.8
Apr 22	3.1	1.0	3.7	6.0	5.6	4.4	1.9	2.3	1.7	1.0	1.2	1.4	2.7	6.7	8.0	5.4	4.4	2.6	7.6	9.2	7.0	2.5	3.1	2.1	1.0	9.2	2.5
Apr 23	5.0	6.8	6.1	10.3	8.7	10.2	5.1	12.9	12.2	9.7	3.6	3.9	0.4	3.9	5.0	3.4	6.2	8.4	7.5	6.1	8.8	13.4	13.2	15.7	0.4	15.7	6.3
Apr 24	14.2	16.0	16.9	15.5	14.5	13.5	16.3	17.6	17.2	19.5	19.4	20.4	24.8	24.6	22.2	21.9	25.0	26.8	25.3	22.8	19.6	23.1	25.0	22.3	13.5	26.8	**19.5**
Apr 25	21.7	25.3	21.4	21.4	23.2	22.2	20.5	21.3	24.2	23.0	18.3	18.7	23.7	22.8	22.2	26.9	26.7	27.5	19.5	9.3	8.6	6.5	4.7	5.0	4.7	27.5	19.1
Apr 26	3.9	3.9	8.8	7.4	4.7	6.3	4.3	3.5	5.4	9.7	8.4	6.3	5.2	3.3	6.3	5.4	5.7	9.9	10.5	12.6	11.2	10.5	10.1	9.6	3.3	12.6	3.7
Apr 27	6.0	5.8	4.1	3.4	4.0	5.2	3.4	6.7	9.1	11.4	15.2	15.4	11.9	10.0	5.5	5.6	4.0	2.3	1.3	2.0	2.5	8.1	3.3	5.6	1.3	15.4	3.9
Apr 28	5.7	3.4	5.5	3.5	5.1	6.1	9.2	12.3	13.9	12.6	13.5	13.1	13.5	12.9	11.9	11.5	11.1	9.8	8.9	8.0	8.3	8.0	7.4	7.6	3.4	13.9	8.2
Apr 29	11.3	13.5	13.0	13.3	13.0	13.4	11.5	11.4	10.2	11.2	10.6	9.5	8.7	8.2	7.8	9.1	10.2	7.4	8.1	7.2	6.6	6.0	2.7	4.9	2.7	13.5	9.4
Apr 30	3.2	3.4	4.1	5.0	6.6	5.8	7.0	7.9	8.6	7.1	6.1	7.5	10.4	14.5	12.3	8.4	9.6	7.6	7.8	10.0	10.3	11.5	12.6	15.4	3.2	15.4	7.5
Diurnal Maximum	28	30	29	26	24	25	23	22	24	27	22	22	25	25	26	27	27	28	28	28	25	31	31	30			
Diurnal Average	9.9	10.6	11.3	10.7	10.5	10.6	10.2	10.9	10.8	10.9	9.9	10.6	11.4	12.6	12.1	12.0	11.7	11.8	11.5	10.7	10.4	10.6	10.1	10.6			

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

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

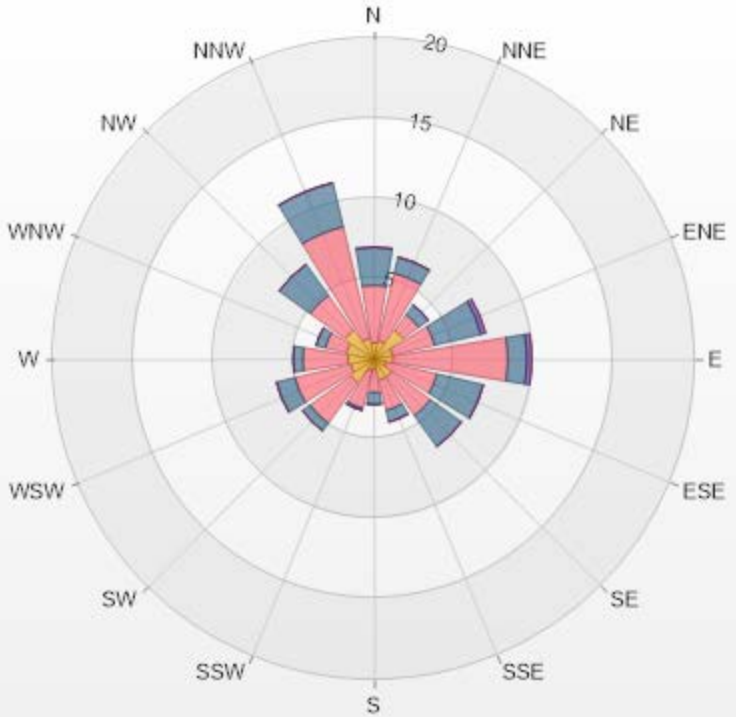
Timeseries Chart of Hourly Average for VWS - 986c Station



Wind: PRAMP 986c Monitor: WDS [KPH] Monthly: 04-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 2.53% Valid Data: 93.47%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.04	3.57	2.38	0	0	6.99
NNE	1.19	4.31	1.04	0	0	6.54
NE	2.23	1.19	0.74	0	0	4.16
ENE	1.19	2.67	2.97	0.3	0	7.13
E	1.19	7.13	1.19	0.3	0	9.81
ESE	0.74	3.27	2.97	0	0	6.98
SE	1.34	2.97	2.38	0	0	6.69
SSE	1.34	1.93	0.74	0	0	4.01
S	0.59	1.49	0.74	0	0	2.82
SSW	0.74	2.38	0.15	0	0	3.27
SW	1.78	3.12	0.59	0	0	5.49
WSW	1.49	3.57	1.19	0	0	6.25
W	1.63	2.82	0.59	0	0	5.04
WNW	1.78	1.34	0.59	0	0	3.71
NW	2.23	2.67	2.38	0	0	7.28
NNW	1.34	7.13	2.82	0	0	11.29
Summary	21.84	51.56	23.46	0.6	0	97.46

PRAMP 986c 01-04-2022 00:00 - 30-04-2022 23:00 Calm: 2.53% Calm Wind Avg Speed: 1.20(KPH)



% Icon Classes (KPH)	22 1.8-6.0	52 6.0-15.0	23 15.0-29.0	1 29.0-39.0	0 >39.0

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PEACE RIVER AREA MONITORING PROGRAM

986c Station - April 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

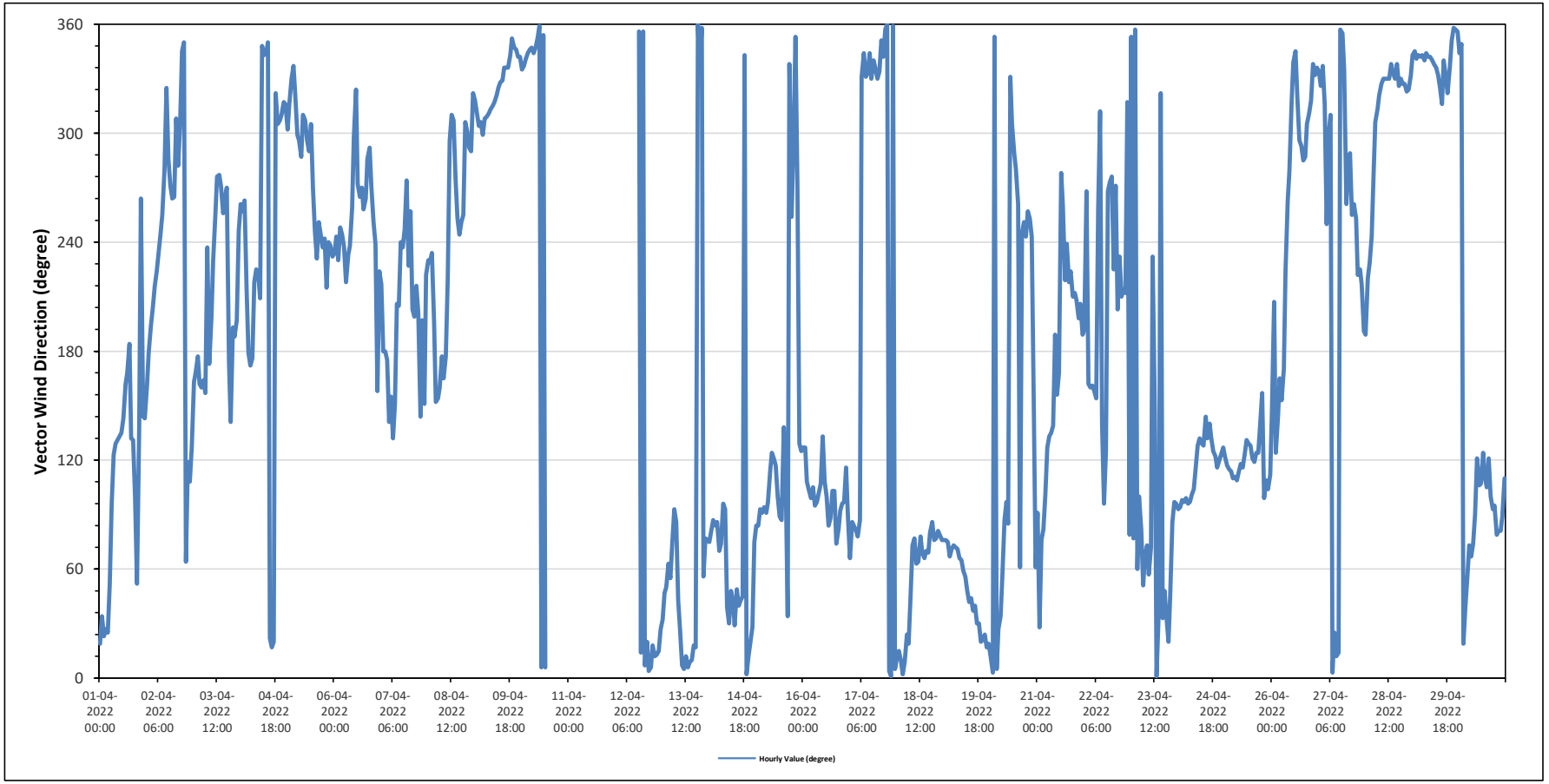
Monthly Average:	42 (NE)	degree	
Hours in Service:	720		
Hours of Data:	673		
Hours of Missing Data:	43		
Hours of Calibration:	4		
Operational Uptime:	94.0		

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
Apr 1	NNE	NE	NNE	NNE	NNE	NE	E	ESE	SE	SE	SE	SE	SE	SSE	SSE	S	SE	SE	E	NE	SE	W	SE	SE	111	ESE
Apr 2	SSE	S	SSW	SSW	SW	SW	SW	WSW	WSW	W	NW	WNW	W	W	W	NW	W	WNW	NNW	N	ENE	ESE	ESE	SE	243	WSW
Apr 3	SSE	SSE	S	SSE	SSE	SSE	SSE	SW	S	SSW	SW	WSW	W	W	W	WSW	W	W	S	SE	S	S	SSW	WSW	214	SSW
Apr 4	W	WSW	W	SW	S	S	S	SW	SW	SW	SSW	NNW	NNW	NNW	N	NNE	NNE	NNE	NW	WNW	NW	NW	NW	NW	261	W
Apr 5	WNW	NW	NNW	NNW	NW	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	W	WSW	SW	WSW	WSW	SW	WSW	SSW	WSW	SW	SW	266	W
Apr 6	SW	WSW	SW	WSW	WSW	SW	SW	SW	SW	WSW	WNW	NW	W	W	W	WSW	W	WNW	WNW	W	WSW	WSW	SSE	SW	253	WSW
Apr 7	SW	S	S	S	SE	SSE	SE	SSE	SSW	SSW	WSW	SW	WSW	W	SW	WSW	SSW	SSW	SW	SSW	SE	SSW	SSE	SW	196	SSW
Apr 8	SW	SW	SW	SSW	SSE	SSE	SSE	S	SSE	S	SW	WNW	NW	NW	W	WSW	WSW	WSW	WSW	NW	WNW	WNW	WNW	NW	266	W
Apr 9	NW	NW	WNW	NW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	324	NW
Apr 10	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X	-	NNW
Apr 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C	C	NRM	NRM	NRM	NRM	NRM	-	-
Apr 12	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	N	NNE	N	N	NNE	N	N	NNE	NNE	NNE	NNE	NNE	-	-
Apr 13	NNE	NE	NE	ENE	NE	ENE	E	E	NE	NNE	N	N	NNE	N	N	N	NNE	NNE	N	NNW	N	NE	ENE	ENE	30	NNE
Apr 14	ENE	E	E	E	E	ENE	ENE	E	E	NE	NNE	NE	NE	NNE	NE	NE	NE	NE	NNW	N	NNE	NNE	NNE	ENE	52	NE
Apr 15	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	E	E	E	SE	ESE	NE	NNW	WSW	WNW	N	W	SE	SE	100	E
Apr 16	SE	SE	ESE	ESE	E	ESE	E	E	E	ESE	SE	ESE	E	E	E	ESE	ESE	ENE	E	E	E	E	ESE	E	100	E
Apr 17	ENE	E	E	E	ENE	E	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	N	N	N	N	N	N	355	N
Apr 18	NNE	NNE	N	N	N	NNE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	ENE	ENE	E	ENE	ENE	64	ENE
Apr 19	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	56	NE
Apr 20	NNE	N	N	N	NNE	NE	NE	E	E	E	NNW	WNW	WNW	W	W	ENE	WSW	WSW	WSW	WSW	WSW	WSW	SSE	ENE	334	NNW
Apr 21	E	NNE	ENE	E	E	SE	SE	SE	SE	S	SSE	SSE	W	WSW	SW	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	S	184	S
Apr 22	S	W	SSE	SSE	SSE	SSE	SSE	WSW	NW	SE	E	SE	W	W	W	SW	W	SSW	SW	SSW	SSW	SSW	NW	ENE	218	SW
Apr 23	N	ENE	N	ENE	E	E	NE	ENE	ENE	ENE	ENE	SW	SE	N	NE	NW	NNE	NE	NNE	NNE	NE	E	E	E	62	ENE
Apr 24	E	E	E	E	E	E	E	E	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	SE	119	ESE
Apr 25	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	ESE	ESE	ESE	ESE	SE	SSE	E	ESE	ESE	ESE	120	ESE
Apr 26	SE	SSW	ESE	SE	SSE	SSE	SSE	SW	W	W	NW	NNW	NNW	NW	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	301	WNW
Apr 27	NNW	NW	NNW	NW	WSW	WNW	NW	N	NNE	NNE	NNE	N	N	NNW	W	W	WNW	WSW	W	WSW	SW	SW	SW	S	330	NNW
Apr 28	S	SW	SW	WSW	W	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NW	NW	NW	NW	NNW	322	NW
Apr 29	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	NW	NNW	N	N	N	N	340	NNW
Apr 30	NNW	NNW	NNE	NE	NE	ENE	ENE	ENE	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	ENE	E	E	E	ESE	91	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 (Machine Malfunction /Recovery)	NRM	UnitMaint (Repeat Calibration / Repeat Daily Zero-Span Check / Non-Routine Maintenance)					

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

Timeseries Chart of Hourly Average for VWD - 986c Station



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PEACE RIVER AREA MONITORING PROGRAM

986c Station - April 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	31.0	kph	on April 18 at hour 22	Hours in Service:	720
Maximum Daily Value:	19.5	kph	on April 24	Hours of Data:	673
Minimum Hourly Value:	0.1	kph	on April 15 at hour 21	Hours of Missing Data:	43
Minimum Daily Value:	1.7	kph	on April 20	Hours of Calibration:	4
Monthly Average:	2.0	kph		Operational Uptime:	94

WIND DIRECTION

Monthly Average: 42 (NE) degree

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Apr 1	6.7	5.5	12.7	16.1	11.2	8.5	8.9	12.0	11.8	11.7	10.7	9.7	14.0	13.5	8.3	5.8	1.9	5.7	4.1	3.2	10.7	4.1	6.1	7.5	1.9	16.1	5.3
	NNE	NE	NNE	NNE	NNE	NE	E	ESE	SE	SE	SE	SE	SE	SSE	SSE	S	SE	SE	E	NE	SE	W	SE	SE			
Apr 2	14.4	16.7	13.1	10.3	12.0	15.8	16.0	15.7	15.6	9.2	8.2	7.8	9.3	12.0	11.4	12.2	11.7	11.2	4.7	6.5	5.1	6.9	8.0	4.2	4.2	16.7	5.9
	SSE	S	SSW	SSW	SW	SW	SW	WSW	WSW	W	NW	WNW	W	W	W	NW	W	WNW	NNW	N	ENE	ESE	ESE	SE			
Apr 3	7.2	13.3	19.0	15.9	20.2	22.5	20.0	14.3	17.5	14.2	17.3	21.5	19.9	20.4	22.1	23.0	19.0	14.7	13.4	7.4	7.6	13.2	8.3	17.9	7.2	23.0	11.3
	SSE	SSE	S	SSE	SSE	SSE	SSE	SW	S	SSW	SW	WSW	W	W	W	WSW	W	W	S	SE	S	S	SSW	WSW			
Apr 4	11.3	14.0	10.7	9.8	9.6	15.6	15.5	7.2	2.5	4.0	1.5	1.8	3.4	10.1	10.2	1.7	6.1	5.8	5.4	5.7	1.2	4.0	4.8	4.7	1.2	15.6	2.9
	W	WSW	W	SW	S	S	S	SW	SW	SW	SSW	NNW	NNW	NNW	N	NNE	NNE	NNE	NW	WNW	NW	NW	NW	NW			
Apr 5	2.9	4.9	4.7	4.7	3.8	3.6	3.6	2.9	5.1	7.6	7.6	8.9	8.8	9.1	10.2	9.2	12.0	9.1	8.7	8.9	9.1	10.4	9.2	10.3	2.9	12.0	6.0
	WNW	NW	NNW	NNW	NW	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	W	WSW	SW	WSW	WSW	SW	WSW	SSW	WSW	SW	SW			
Apr 6	11.9	10.8	13.1	12.2	8.3	8.2	11.5	11.3	7.8	9.6	9.3	8.4	5.7	9.4	12.9	13.4	9.6	5.1	11.0	9.2	8.8	7.6	7.2	5.7	5.1	13.4	8.3
	SW	WSW	SW	WSW	WSW	SW	SW	SW	SW	WSW	WNW	NW	W	W	W	WSW	W	WNW	WNW	W	WSW	WSW	SSE	SW			
Apr 7	10.2	11.7	13.3	13.1	13.4	9.5	7.0	9.3	8.9	9.9	5.2	9.9	10.6	13.8	7.2	9.8	6.9	12.3	12.3	8.8	14.2	18.7	18.8	17.5	5.2	18.8	9.0
	SW	S	S	S	SE	SSE	SE	SSE	SSW	SSW	WSW	SW	WSW	W	SW	WSW	SSW	SSW	SW	SSW	SE	SSW	SSE	SW			
Apr 8	12.4	7.6	5.9	2.5	4.0	7.5	7.0	7.0	5.8	8.9	4.5	4.7	15.9	20.9	14.3	20.7	20.5	17.1	13.4	15.5	17.6	17.5	17.2	16.4	2.5	20.9	8.3
	SW	SW	SW	SSW	SSE	SSE	SSE	S	SSE	S	SW	WNW	NW	NW	W	WSW	WSW	WSW	WSW	NW	WNW	WNW	WNW	NW			
Apr 9	17.1	21.4	20.6	21.8	17.7	17.3	18.2	19.3	19.1	22.0	20.5	20.5	22.0	23.0	25.5	25.7	23.1	25.2	19.2	16.7	17.1	16.8	15.6	11.3	11.3	25.7	19.2
	NW	NW	WNW	NW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW			
Apr 10	10.5	14.8	16.8	19.7	21.5	21.7	20.0	20.8	19.3	15.4	9.9	17.3	11.7	X	X	X	X	X	X	X	X	X	X	X	9.9	21.7	-
	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	X	X	X	X	X	X	X	X	X	X	X			
Apr 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C	C	NRM	NRM	NRM	NRM	NRM			-
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	C	C	NRM	NRM	NRM	NRM	NRM			
Apr 12	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	13.6	13.5	18.0	14.0	16.1	15.3	16.0	15.4	14.9	15.8	14.8	13.6	13.5	18.0	-
	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	N	NNE	N	N	NNE	N	N	NNE	NNE	NNE	NNE	NNE			
Apr 13	11.2	9.6	7.9	6.0	4.3	4.1	6.4	4.4	3.0	5.4	9.2	8.5	9.4	9.2	9.9	9.3	8.8	9.3	10.2	13.1	10.8	8.1	11.1	14.3	3.0	14.3	7.2
	NNE	NE	NE	ENE	NE	ENE	E	E	NE	NNE	N	N	NNE	N	N	N	NNE	NNE	N	NNW	N	NE	ENE	ENE			
Apr 14	12.8	12.1	10.0	9.7	8.2	5.0	6.2	8.4	7.3	4.7	5.0	7.6	5.2	4.1	3.7	4.8	4.8	4.0	14.5	13.5	10.5	7.2	3.6	7.5	3.6	14.5	6.2
	ENE	E	E	E	E	ENE	ENE	E	E	NE	NNE	NE	NE	NNE	NE	NE	NE	NE	NNW	N	NNE	NNE	NNE	ENE			
Apr 15	7.9	11.2	11.8	10.1	10.2	10.1	7.8	9.0	12.7	6.7	7.1	7.7	8.3	6.0	5.0	4.4	1.9	1.9	3.8	3.4	3.2	**0.1**	1.9	3.4	**0.1**	12.7	5.3
	E	E	E	E	E	E	E	ESE	ESE	ESE	ESE	E	E	E	SE	ESE	NE	NNW	WSW	WNW	N	W	SE	SE			
Apr 16	4.9	4.9	7.3	4.2	4.4	7.9	7.4	8.9	7.0	8.8	13.1	10.6	8.8	10.6	13.1	14.2	9.1	11.1	8.9	9.7	9.3	7.8	5.0	4.9	4.2	14.2	8.2
	SE	SE	ESE	ESE	E	ESE	E	E	E	ESE	SE	ESE	E	E	E	ESE	ESE	ENE	E	E	E	E	ESE	E			
Apr 17	3.5	3.3	6.5	7.4	8.2	3.9	5.2	8.5	8.3	9.5	8.4	13.3	14.6	15.6	16.5	19.1	16.1	16.1	18.0	21.2	21.0	20.5	19.6	18.9	3.3	21.2	11.0
	ENE	E	E	E	ENE	E	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	N	N	N	N	N	N			
Apr 18	16.8	15.4	15.0	11.3	10.9	9.5	8.9	10.4	13.3	13.3	15.3	17.0	18.7	19.8	21.4	23.4	23.7	25.8	27.5	27.5	25.2	30.6	**31.0**	29.7	8.9	**31.0**	17.4
	NNE	NNE	N	N	N	NNE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	ENE	ENE	E	ENE	ENE			
Apr 19	27.5	29.7	28.9	25.8	24.2	24.8	23.0	21.8	22.7	26.7	22.3	20.9	20.9	20.7	17.4	16.2	16.7	17.3	13.9	11.7	9.4	9.4	11.3	12.0	9.4	29.7	18.7
	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE			
Apr 20	9.1	8.5	8.1	6.6	6.3	4.5	4.0	7.4	6.1	1.7	1.4	2.3	3.5	5.2	3.5	1.5	5.7	10.1	8.9	5.1	4.5	0.6	1.0	1.9	0.6	10.1	**1.7**
	NNE	N	N	N	NNE	NE	NE	E	E	E	NNW	WNW	WNW	W	W	ENE	WSW	WSW	WSW	WSW	WSW	WSW	SSE	ENE			

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PEACE RIVER AREA MONITORING PROGRAM

986c Station - April 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	31.0	kph	on April 18 at hour 22	Hours in Service:	720
Maximum Daily Value:	19.5	kph	on April 24	Hours of Data:	673
Minimum Hourly Value:	0.1	kph	on April 15 at hour 21	Hours of Missing Data:	43
Minimum Daily Value:	1.7	kph	on April 20	Hours of Calibration:	4
Monthly Average:	2.0	kph		Operational Uptime:	94

WIND DIRECTION

Monthly Average: 42 (NE) 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			
Apr 21	4.8	3.1	6.2	7.8	9.6	8.6	10.1	10.0	6.1	10.6	5.1	3.1	5.7	8.3	8.1	9.4	11.2	10.9	12.5	9.6	8.3	9.0	7.3	6.3	3.1	12.5	4.8
	E	NNE	ENE	E	E	SE	SE	SE	SE	S	SSE	SSE	W	WSW	SW	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	S			
Apr 22	3.1	1.0	3.7	6.0	5.6	4.4	1.9	2.3	1.7	1.0	1.2	1.4	2.7	6.7	8.0	5.4	4.4	2.6	7.6	9.2	7.0	2.5	3.1	2.1	1.0	9.2	2.5
	S	W	SSE	SSE	SSE	SSE	SSE	WSW	NW	SE	E	SE	W	W	W	SW	W	SSW	SW	SSW	SSW	SSW	NW	ENE			
Apr 23	5.0	6.8	6.1	10.3	8.7	10.2	5.1	12.9	12.2	9.7	3.6	3.9	0.4	3.9	5.0	3.4	6.2	8.4	7.5	6.1	8.8	13.4	13.2	15.7	0.4	15.7	6.3
	N	ENE	N	ENE	E	E	NE	ENE	ENE	ENE	ENE	SW	SE	N	NE	NW	NNE	NE	NNE	NNE	NE	E	E	E			
Apr 24	14.2	16.0	16.9	15.5	14.5	13.5	16.3	17.6	17.2	19.5	19.4	20.4	24.8	24.6	22.2	21.9	25.0	26.8	25.3	22.8	19.6	23.1	25.0	22.3	13.5	26.8	**19.5**
	E	E	E	E	E	E	E	E	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	SE			
Apr 25	21.7	25.3	21.4	21.4	23.2	22.2	20.5	21.3	24.2	23.0	18.3	18.7	23.7	22.8	22.2	26.9	26.7	27.5	19.5	9.3	8.6	6.5	4.7	5.0	4.7	27.5	19.1
	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	ESE	ESE	ESE	ESE	SE	SSE	E	ESE	ESE	ESE			
Apr 26	3.9	3.9	8.8	7.4	4.7	6.3	4.3	3.5	5.4	9.7	8.4	6.3	5.2	3.3	6.3	5.4	5.7	9.9	10.5	12.6	11.2	10.5	10.1	9.6	3.3	12.6	3.7
	SE	SSW	ESE	SE	SSE	SSE	SSE	SW	W	W	NW	NNW	NNW	NW	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	NNW			
Apr 27	6.0	5.8	4.1	3.4	4.0	5.2	3.4	6.7	9.1	11.4	15.2	15.4	11.9	10.0	5.5	5.6	4.0	2.3	1.3	2.0	2.5	8.1	3.3	5.6	1.3	15.4	3.9
	NNW	NW	NNW	NW	WSW	WNW	NW	N	NNE	NNE	NNE	N	N	NNW	W	W	WNW	WSW	W	WSW	SW	SW	SW	S			
Apr 28	5.7	3.4	5.5	3.5	5.1	6.1	9.2	12.3	13.9	12.6	13.5	13.1	13.5	12.9	11.9	11.5	11.1	9.8	8.9	8.0	8.3	8.0	7.4	7.6	3.4	13.9	8.2
	S	SW	SW	WSW	W	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NW	NW	NW	NW	NNW			
Apr 29	11.3	13.5	13.0	13.3	13.0	13.4	11.5	11.4	10.2	11.2	10.6	9.5	8.7	8.2	7.8	9.1	10.2	7.4	8.1	7.2	6.6	6.0	2.7	4.9	2.7	13.5	9.4
	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	NW	NNW	N	N	N	N			
Apr 30	3.2	3.4	4.1	5.0	6.6	5.8	7.0	7.9	8.6	7.1	6.1	7.5	10.4	14.5	12.3	8.4	9.6	7.6	7.8	10.0	10.3	11.5	12.6	15.4	3.2	15.4	7.5
	NNW	NNW	NNE	NE	NE	ENE	ENE	ENE	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E	ENE	E	E	E	ESE			

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

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - April 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

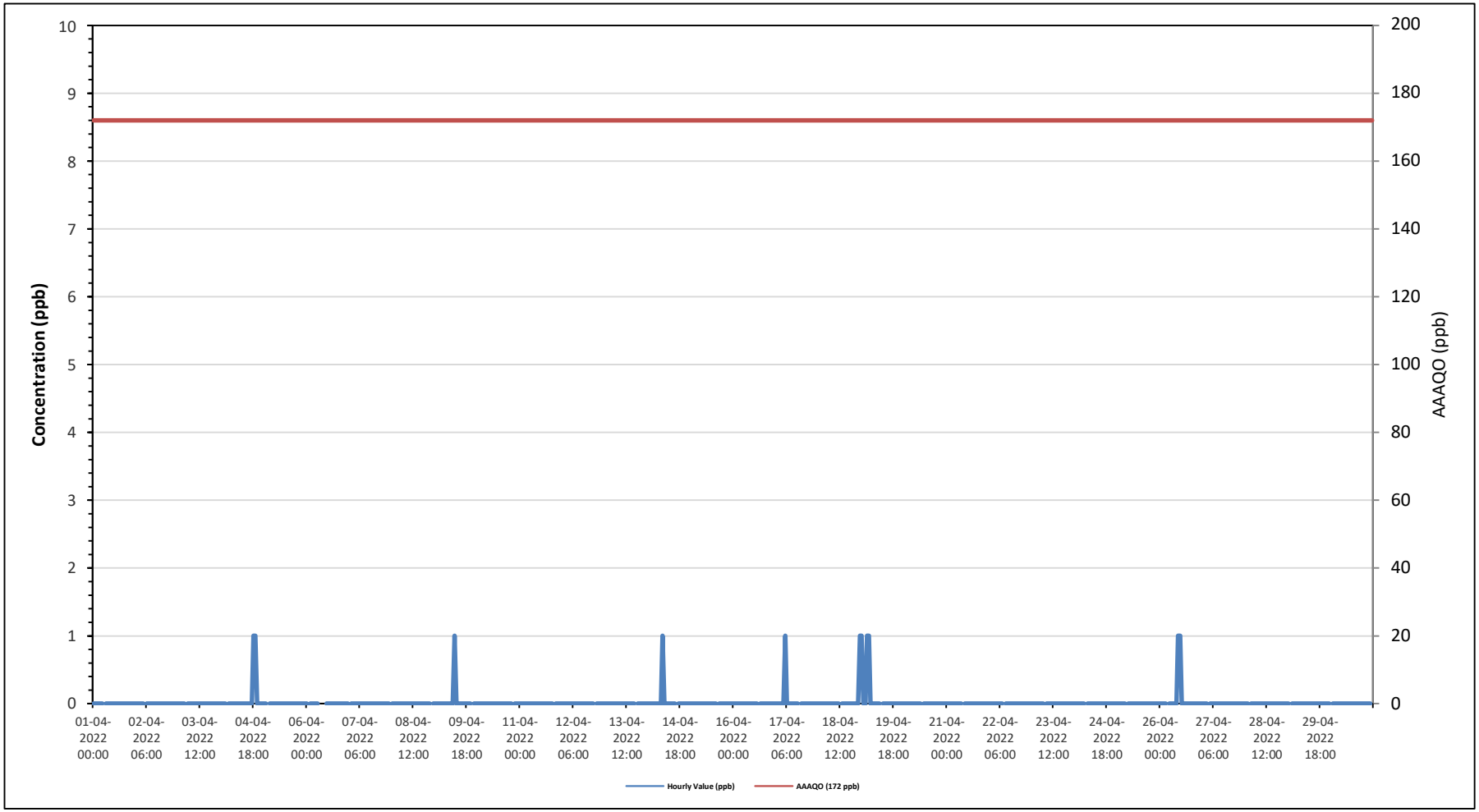
Number of 1-Hour Exceedances: 0 Number of 24-Hour Exceedances: 0 30-Day Exceedance: 0

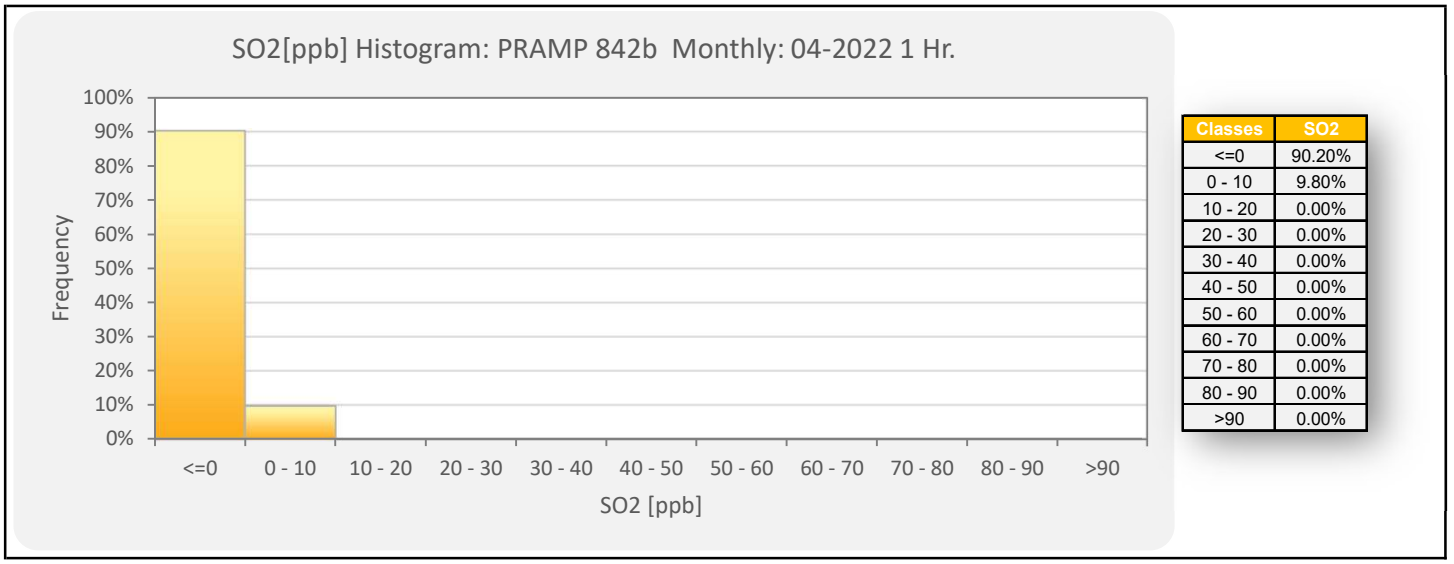
Maximum Hourly Value:	1	ppb	on April 4 at hour 18	Hours in Service:	720
Maximum Daily Value:	0.1	ppb	on April 19	Hours of Data:	684
Minimum Hourly Value:	0	ppb	on April 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on April 1	Hours of Calibration:	36
Monthly Average:	0.0	ppb		Operational Uptime:	100.0

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

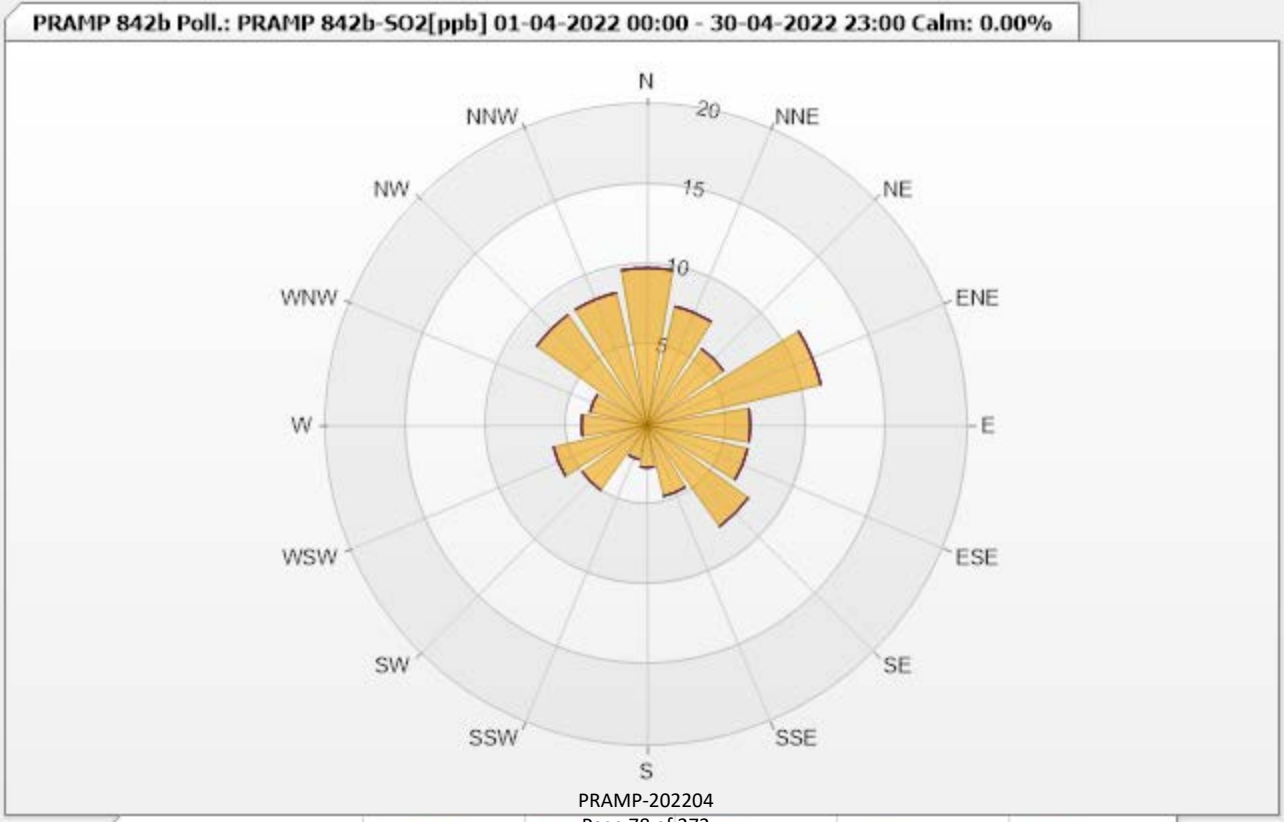

Timeseries Chart of Hourly Average for SO2 - 842b Station
Concentration (ppb)
AAAQO (ppb)
0
1
2
3
4
5
6
7
8
9
10
0
20
40
60
80
100
120
140
160
180
200
01-04-2022 00:00
02-04-2022 06:00
03-04-2022 12:00
04-04-2022 18:00
06-04-2022 00:00
07-04-2022 06:00
08-04-2022 12:00
09-04-2022 18:00
11-04-2022 00:00
12-04-2022 06:00
13-04-2022 12:00
14-04-2022 18:00
16-04-2022 00:00
17-04-2022 06:00
18-04-2022 12:00
19-04-2022 18:00
21-04-2022 00:00
22-04-2022 06:00
23-04-2022 12:00
24-04-2022 18:00
26-04-2022 00:00
27-04-2022 06:00
28-04-2022 12:00
29-04-2022 18:00
Hourly Value (ppb)
AAAQO (172 ppb)



Classes	SO2
<=0	90.20%
0 - 10	9.80%
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: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	9.8	0	0	0	0	9.8
NNE	7.6	0	0	0	0	7.6
NE	5.85	0	0	0	0	5.85
ENE	11.11	0	0	0	0	11.11
E	6.43	0	0	0	0	6.43
ESE	6.43	0	0	0	0	6.43
SE	7.75	0	0	0	0	7.75
SSE	4.53	0	0	0	0	4.53
S	2.63	0	0	0	0	2.63
SSW	2.19	0	0	0	0	2.19
SW	4.97	0	0	0	0	4.97
WSW	5.99	0	0	0	0	5.99
W	4.09	0	0	0	0	4.09
WNW	3.65	0	0	0	0	3.65
NW	8.48	0	0	0	0	8.48
NNW	8.48	0	0	0	0	8.48
Summary	100	0	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-SO2[ppb] 01-04-2022 00:00 - 30-04-2022 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 - April 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

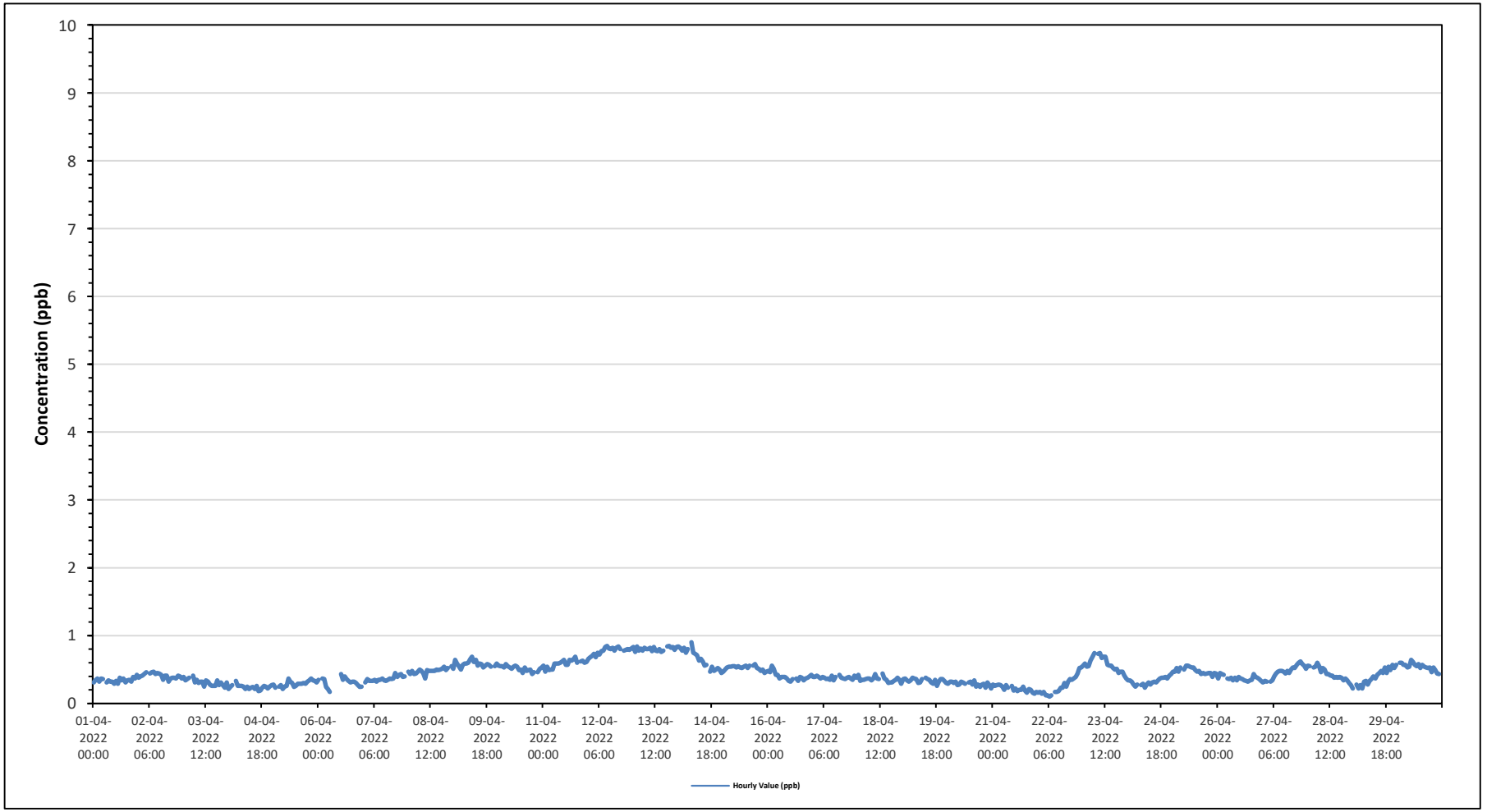
Maximum Hourly Value:	0.90	ppb	on April 14 at hour 7	Hours in Service:	720
Maximum Daily Value:	0.80	ppb	on April 13	Hours of Data:	682
Minimum Hourly Value:	0.10	ppb	on April 22 at hour 6	Hours of Missing Data:	1
Minimum Daily Value:	0.22	ppb	on April 21	Hours of Calibration:	37
Monthly Average:	0.43	ppb		Operational Uptime:	99.9

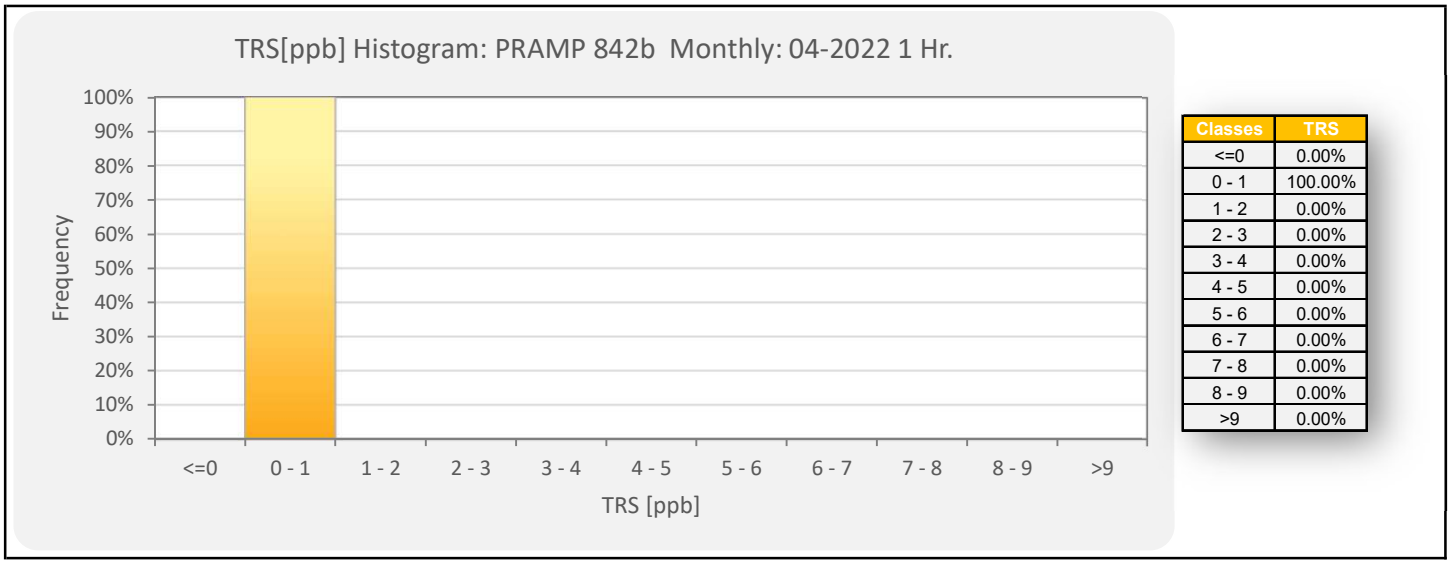
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0.31	0.34	0.37	0.32	0.37	0.36	S	0.31	0.34	0.32	0.32	0.29	0.33	0.29	0.38	0.34	0.37	0.31	0.34	0.35	0.32	0.39	0.37	0.42	0.29	0.42	0.34
Apr 2	0.38	0.4	0.41	0.43	0.46	S	0.44	0.46	0.47	0.43	0.45	0.44	0.42	0.35	0.41	0.41	0.32	0.37	0.38	0.38	0.37	0.41	0.4	0.37	0.32	0.47	0.41
Apr 3	0.39	0.34	0.36	0.38	S	0.41	0.31	0.35	0.3	0.32	0.32	0.25	0.34	0.32	0.28	0.26	0.26	0.26	0.34	0.27	0.31	0.27	0.23	0.31	0.23	0.41	0.31
Apr 4	0.21	0.24	0.27	S	0.33	0.26	0.26	0.26	0.25	0.21	0.25	0.21	0.23	0.24	0.21	0.26	0.18	0.19	0.23	0.26	0.25	0.22	0.25	0.27	0.18	0.33	0.24
Apr 5	0.28	0.23	S	0.25	0.27	0.21	0.25	0.26	0.37	0.32	0.3	0.24	0.26	0.29	0.29	0.29	0.3	0.29	0.32	0.34	0.37	0.34	0.33	0.31	0.21	0.37	0.29
Apr 6	0.35	S	0.37	0.36	0.24	0.21	0.17	C	C	C	C	C	0.43	0.35	0.4	0.36	0.33	0.31	0.32	0.32	0.3	0.27	0.24	0.25	0.17	0.43	0.31
Apr 7	S	0.31	0.36	0.33	0.33	0.33	0.35	0.32	0.35	0.35	0.37	0.34	0.33	0.35	0.37	0.36	0.37	0.45	0.39	0.42	0.43	0.39	0.4	S	0.31	0.45	0.36
Apr 8	0.47	0.43	0.48	0.43	0.44	0.47	0.5	0.48	0.44	0.37	0.49	0.48	0.48	0.48	0.48	0.5	0.49	0.5	0.51	0.54	0.49	0.52	S	0.55	0.37	0.55	0.48
Apr 9	0.51	0.64	0.59	0.55	0.5	0.57	0.59	0.59	0.6	0.65	0.69	0.61	0.64	0.56	0.59	0.58	0.53	0.56	0.58	0.57	0.54	S	0.55	0.59	0.50	0.69	0.58
Apr 10	0.56	0.55	0.55	0.53	0.58	0.55	0.53	0.51	0.54	0.56	0.54	0.49	0.5	0.45	0.53	0.48	0.49	0.5	0.43	0.46	S	0.46	0.51	0.53	0.43	0.58	0.51
Apr 11	0.56	0.47	0.54	0.49	0.5	0.5	0.59	0.59	0.59	0.6	0.62	0.64	0.57	0.57	0.64	0.63	0.65	0.69	0.6	S	0.62	0.63	0.6	0.61	0.47	0.69	0.59
Apr 12	0.66	0.68	0.7	0.73	0.68	0.75	0.72	0.77	0.78	0.83	0.85	0.81	0.8	0.82	0.78	0.82	0.84	0.8	S	0.78	0.79	0.8	0.79	0.81	0.66	0.85	0.77
Apr 13	0.83	0.76	0.84	0.78	0.81	0.78	0.82	0.8	0.8	0.82	0.77	0.83	0.78	0.77	0.8	0.76	0.78	S	0.84	0.85	0.82	0.83	0.79	0.83	0.76	0.85	**0.80**
Apr 14	0.84	0.82	0.78	0.82	0.75	0.8	NRM	**0.9**	0.75	0.73	0.71	0.63	0.66	0.62	0.56	0.57	S	0.47	0.54	0.48	0.5	0.52	0.5	0.45	0.45	**0.90**	0.65
Apr 15	0.47	0.5	0.53	0.54	0.54	0.55	0.55	0.53	0.55	0.53	0.52	0.54	0.56	0.52	0.56	S	0.56	0.58	0.52	0.51	0.48	0.5	0.45	0.47	0.45	0.58	0.52
Apr 16	0.48	0.46	0.56	0.51	0.42	0.42	0.37	0.39	0.39	0.39	0.37	0.33	0.32	0.36	S	0.37	0.33	0.39	0.38	0.34	0.37	0.38	0.4	0.42	0.32	0.56	0.40
Apr 17	0.39	0.39	0.41	0.39	0.37	0.39	0.38	0.36	0.37	0.35	0.41	0.34	0.39	S	0.42	0.38	0.37	0.36	0.38	0.39	0.37	0.35	0.41	0.38	0.34	0.42	0.38
Apr 18	0.42	0.33	0.35	0.35	0.36	0.37	0.37	0.34	0.37	0.43	0.37	0.36	S	0.44	0.37	0.35	0.3	0.31	0.31	0.33	0.35	0.38	0.35	0.29	0.29	0.44	0.36
Apr 19	0.36	0.37	0.34	0.32	0.34	0.38	0.37	0.36	0.3	0.31	0.36	S	0.38	0.36	0.35	0.31	0.29	0.35	0.26	0.32	0.36	0.36	0.33	0.3	0.26	0.38	0.34
Apr 20	0.29	0.32	0.32	0.3	0.32	0.27	0.28	0.32	0.31	0.29	S	0.31	0.32	0.28	0.34	0.25	0.28	0.24	0.28	0.29	0.23	0.31	0.27	0.22	0.22	0.34	0.29
Apr 21	0.28	0.26	0.27	0.28	0.27	0.25	0.2	0.27	0.23	S	0.26	0.19	0.22	0.18	0.2	0.2	0.25	0.19	0.16	0.21	0.2	0.16	0.14	0.17	0.14	0.28	0.22
Apr 22	0.16	0.17	0.14	0.17	0.12	0.12	0.1	0.12	S	0.17	0.17	0.18	0.23	0.23	0.3	0.25	0.32	0.36	0.35	0.37	0.39	0.44	0.52	0.53	0.10	0.53	0.26
Apr 23	0.56	0.59	0.54	0.55	0.63	0.69	0.74	S	0.73	0.74	0.67	0.69	0.69	0.57	0.56	0.56	0.52	0.5	0.51	0.45	0.47	0.47	0.41	0.37	0.37	0.74	0.57
Apr 24	0.34	0.34	0.32	0.28	0.25	0.28	S	0.27	0.29	0.23	0.28	0.31	0.28	0.31	0.32	0.31	0.34	0.37	0.38	0.38	0.39	0.37	0.41	0.43	0.23	0.43	0.33
Apr 25	0.47	0.47	0.52	0.47	0.53	S	0.5	0.56	0.56	0.54	0.53	0.53	0.49	0.47	0.48	0.43	0.45	0.43	0.44	0.45	0.45	0.39	0.45	0.44	0.39	0.56	0.48
Apr 26	0.37	0.45	0.43	0.42	S	0.37	0.36	0.38	0.34	0.38	0.34	0.39	0.37	0.36	0.34	0.33	0.32	0.34	0.35	0.43	0.39	0.38	0.36	0.33	0.32	0.45	0.37
Apr 27	0.31	0.33	0.32	S	0.32	0.34	0.4	0.44	0.47	0.48	0.48	0.47	0.44	0.48	0.45	0.5	0.53	0.52	0.57	0.6	0.62	0.58	0.56	0.51	0.31	0.62	0.47
Apr 28	0.56	0.55	S	0.53	0.54	0.6	0.55	0.46	0.52	0.5	0.43	0.43	0.41	0.41	0.38	0.39	0.38	0.39	0.38	0.34	0.37	0.34	0.3	0.27	0.27	0.60	0.44
Apr 29	0.22	S	0.28	0.22	0.27	0.22	0.32	0.33	0.28	0.33	0.36	0.4	0.37	0.42	0.45	0.48	0.45	0.53	0.45	0.54	0.49	0.57	0.52	0.57	0.22	0.57	0.39
Apr 30	S	0.6	0.6	0.57	0.57	0.53	0.54	0.64	0.61	0.57	0.55	0.58	0.52	0.57	0.54	0.53	0.52	0.53	0.46	0.53	0.49	0.44	0.43	S	0.43	0.64	0.54
Diurnal Maximum	0.84	0.82	0.84	0.82	0.81	0.80	0.82	0.90	0.80	0.83	0.85	0.83	0.80	0.82	0.80	0.82	0.84	0.80	0.84	0.85	0.82	0.83	0.79	0.83			
Diurnal Average	0.43	0.44	0.45	0.44	0.43	0.43	0.43	0.44	0.46	0.46	0.46	0.44	0.44	0.43	0.44	0.42	0.42	0.42	0.41	0.43	0.43	0.43	0.42	0.43			

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

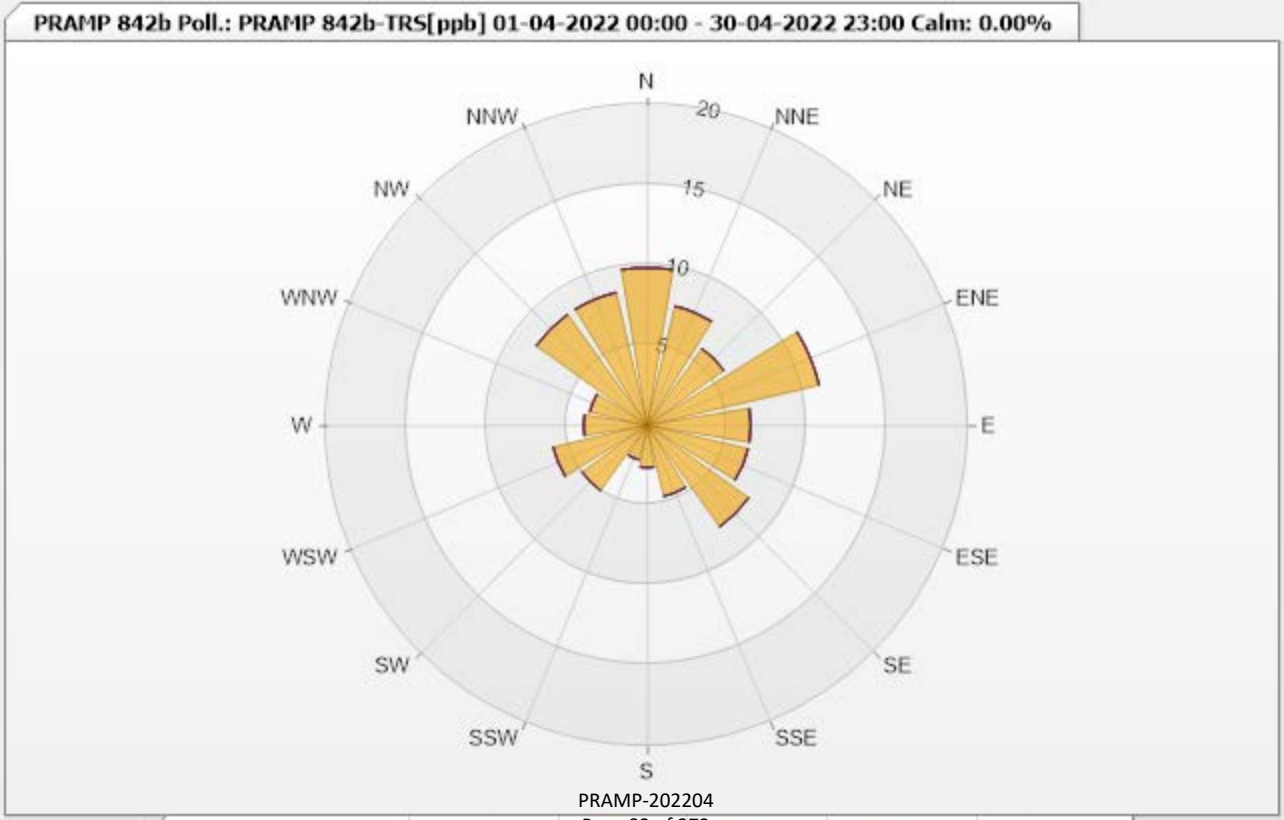




Classes	TRS
<=0	0.00%
0 - 1	100.00%
1 - 2	0.00%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-TRS[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.72% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	9.82	0	0	0	0	9.82
NNE	7.62	0	0	0	0	7.62
NE	5.87	0	0	0	0	5.87
ENE	11	0	0	0	0	11
E	6.45	0	0	0	0	6.45
ESE	6.45	0	0	0	0	6.45
SE	7.77	0	0	0	0	7.77
SSE	4.55	0	0	0	0	4.55
S	2.64	0	0	0	0	2.64
SSW	2.2	0	0	0	0	2.2
SW	4.99	0	0	0	0	4.99
WSW	6.01	0	0	0	0	6.01
W	3.96	0	0	0	0	3.96
WNW	3.67	0	0	0	0	3.67
NW	8.5	0	0	0	0	8.5
NNW	8.5	0	0	0	0	8.5
Summary	100	0	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-TRS[ppb] 01-04-2022 00:00 - 30-04-2022 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 - April 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

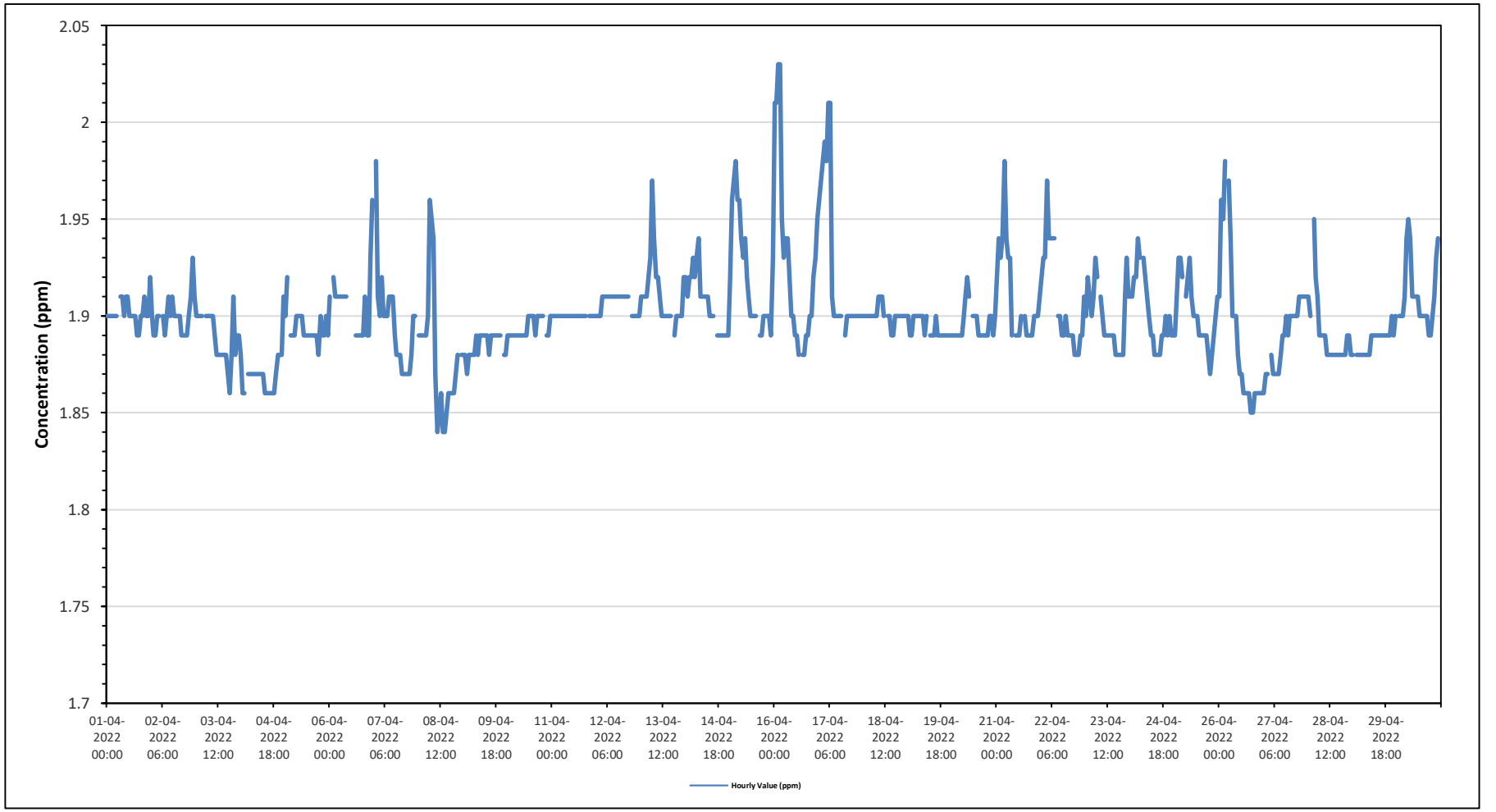
Maximum Hourly Value:	2.03	ppm	on April 16 at hour 2	Hours in Service:	720
Maximum Daily Value:	1.93	ppm	on April 16	Hours of Data:	683
Minimum Hourly Value:	1.84	ppm	on April 8 at hour 10	Hours of Missing Data:	1
Minimum Daily Value:	1.87	ppm	on April 4	Hours of Calibration:	36
Monthly Average:	1.90	ppm		Operational Uptime:	99.9

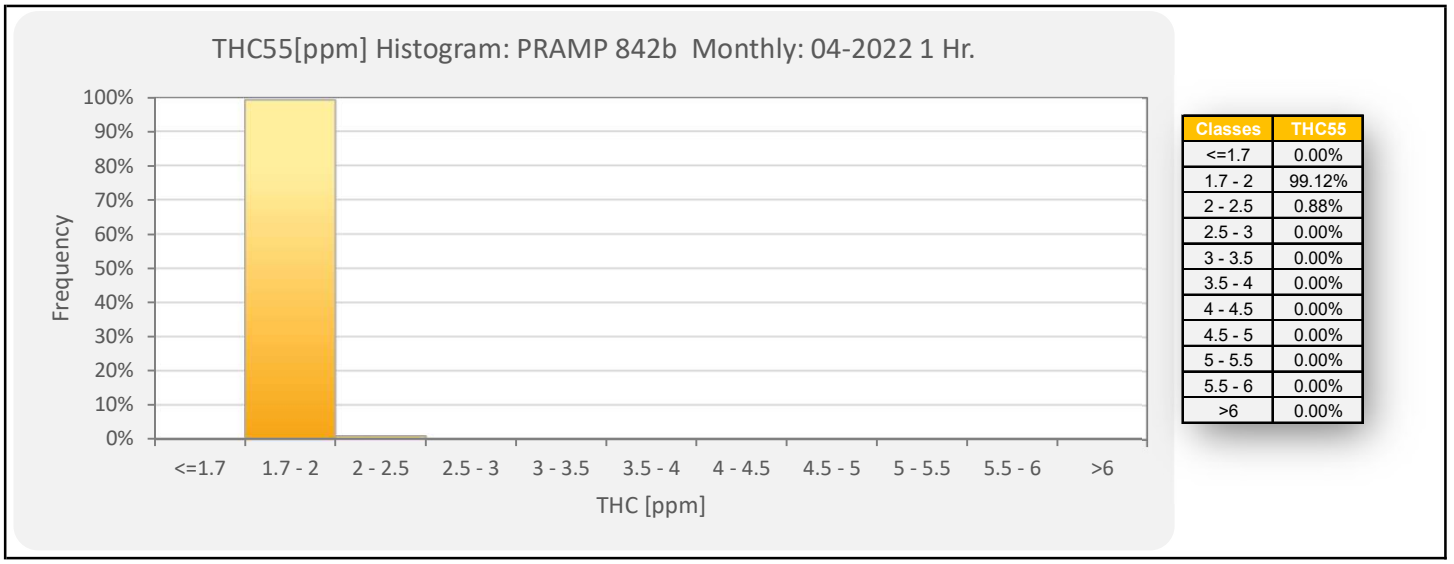
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	1.90	1.90	1.90	1.90	1.90	1.90	S	1.91	1.91	1.90	1.91	1.91	1.90	1.90	1.90	1.90	1.89	1.89	1.90	1.90	1.91	1.90	1.90	1.92	1.89	1.92	1.90
Apr 2	1.90	1.89	1.89	1.90	1.90	S	1.90	1.89	1.90	1.91	1.90	1.91	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.90	1.91	1.93	1.91	1.89	1.93	1.90
Apr 3	1.90	1.90	1.90	1.90	S	1.90	1.90	1.90	1.90	1.90	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.87	1.86	1.88	1.91	1.88	1.89	1.89	1.86	1.91	1.89
Apr 4	1.88	1.86	1.86	S	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.88	1.88	1.91	1.86	1.91	1.87
Apr 5	1.90	1.92	S	1.89	1.89	1.89	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.90	1.89	1.89	1.90	1.89	1.88	1.92	1.89
Apr 6	1.91	S	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	C	C	C	C	1.89	1.89	1.89	1.89	1.89	1.91	1.89	1.89	1.93	1.96	1.89	1.96	1.91
Apr 7	S	1.98	1.91	1.90	1.92	1.90	1.90	1.90	1.91	1.91	1.91	1.89	1.88	1.88	1.88	1.87	1.87	1.87	1.87	1.87	1.88	1.90	1.90	S	1.87	1.98	1.90
Apr 8	1.89	1.89	1.89	1.89	1.89	1.90	1.96	1.95	1.94	1.87	1.84	1.85	1.86	1.84	1.84	1.85	1.86	1.86	1.86	1.86	1.87	1.88	S	1.88	1.84	1.96	1.88
Apr 9	1.88	1.88	1.87	1.88	1.88	1.88	1.88	1.89	1.88	1.89	1.89	1.89	1.89	1.89	1.88	1.89	1.89	1.89	1.89	1.89	1.89	S	1.88	1.88	1.87	1.89	1.88
Apr 10	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.90	1.90	1.89	1.90	1.90	1.90	1.90	S	1.89	1.89	1.90	1.89	1.90	1.89
Apr 11	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	S	1.90	1.90	1.90	1.90	1.90	1.90	1.90
Apr 12	1.90	1.90	1.90	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	S	1.90	1.90	1.90	1.90	1.90	1.90	1.91	1.91
Apr 13	1.91	1.91	1.91	1.91	1.92	1.93	1.97	1.94	1.92	1.92	1.91	1.90	1.90	1.90	1.90	1.90	1.90	S	1.89	1.90	1.90	1.90	1.90	1.92	1.89	1.97	1.91
Apr 14	1.92	1.91	1.92	1.92	1.93	1.92	1.93	1.94	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	S	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.94	1.91
Apr 15	1.92	1.96	1.97	1.98	1.96	1.96	1.94	1.93	1.94	1.92	1.91	1.90	1.90	1.90	1.90	S	1.89	1.89	1.90	1.90	1.90	1.90	1.89	1.93	1.89	1.98	1.92
Apr 16	2.01	2.01	**2.03**	**2.03**	1.95	1.93	1.94	1.94	1.92	1.90	1.90	1.89	1.89	1.88	S	1.88	1.88	1.89	1.89	1.90	1.90	1.92	1.93	1.95	1.88	**2.03**	**1.93**
Apr 17	1.96	1.97	1.98	1.99	1.98	2.01	2.01	1.91	1.90	1.90	1.90	1.90	1.90	S	1.89	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89	2.01	1.93
Apr 18	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.91	1.91	1.91	1.90	S	1.90	1.90	1.89	1.89	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89	1.91	1.90
Apr 19	1.90	1.89	1.89	1.90	1.90	1.90	1.90	1.90	1.90	1.89	1.90	S	1.89	1.89	1.89	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.89
Apr 20	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.91	1.92	1.91	S	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.89	1.90	1.89	1.92	1.90
Apr 21	1.92	1.94	1.93	1.94	1.98	1.94	1.93	1.93	1.89	S	1.89	1.89	1.89	1.90	NRM	1.90	1.89	1.89	1.89	1.89	1.90	1.90	1.90	1.91	1.89	1.98	1.91
Apr 22	1.92	1.93	1.93	1.97	1.94	1.94	1.94	1.94	S	1.90	1.90	1.89	1.89	1.90	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.89	1.89	1.91	1.88	1.97	1.91
Apr 23	1.90	1.92	1.91	1.90	1.91	1.93	1.92	S	1.91	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.91	1.93	1.91	1.88	1.93	1.90
Apr 24	1.91	1.91	1.92	1.92	1.94	1.93	S	1.93	1.92	1.91	1.90	1.89	1.89	1.88	1.88	1.88	1.88	1.89	1.89	1.90	1.89	1.90	1.89	1.89	1.88	1.94	1.90
Apr 25	1.89	1.91	1.93	1.93	1.92	S	1.91	1.92	1.93	1.91	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.88	1.87	1.88	1.89	1.90	1.91	1.87	1.93	1.90
Apr 26	1.91	1.96	1.95	1.98	S	1.97	1.94	1.90	1.90	1.90	1.88	1.87	1.87	1.86	1.86	1.86	1.86	1.85	1.85	1.86	1.86	1.86	1.86	1.86	1.85	1.98	1.89
Apr 27	1.86	1.87	1.87	S	1.88	1.87	1.87	1.87	1.87	1.88	1.89	1.89	1.90	1.89	1.90	1.90	1.90	1.90	1.90	1.91	1.91	1.91	1.91	1.91	1.86	1.91	1.89
Apr 28	1.91	1.90	S	1.95	1.92	1.91	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.89	1.89	1.88	1.88	1.95	1.89
Apr 29	1.88	S	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.89	1.90	1.88	1.90	1.89
Apr 30	S	1.90	1.90	1.90	1.91	1.94	1.95	1.94	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.89	1.89	1.90	1.91	1.93	1.94	S	1.89	1.95	1.91
Diurnal Maximum	2.01	2.01	2.03	2.03	1.98	2.01	2.01	1.95	1.94	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.90	1.91	1.91	1.93	1.94	1.96			
Diurnal Average	1.91	1.91	1.91	1.92	1.91	1.91	1.92	1.91	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.90			

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

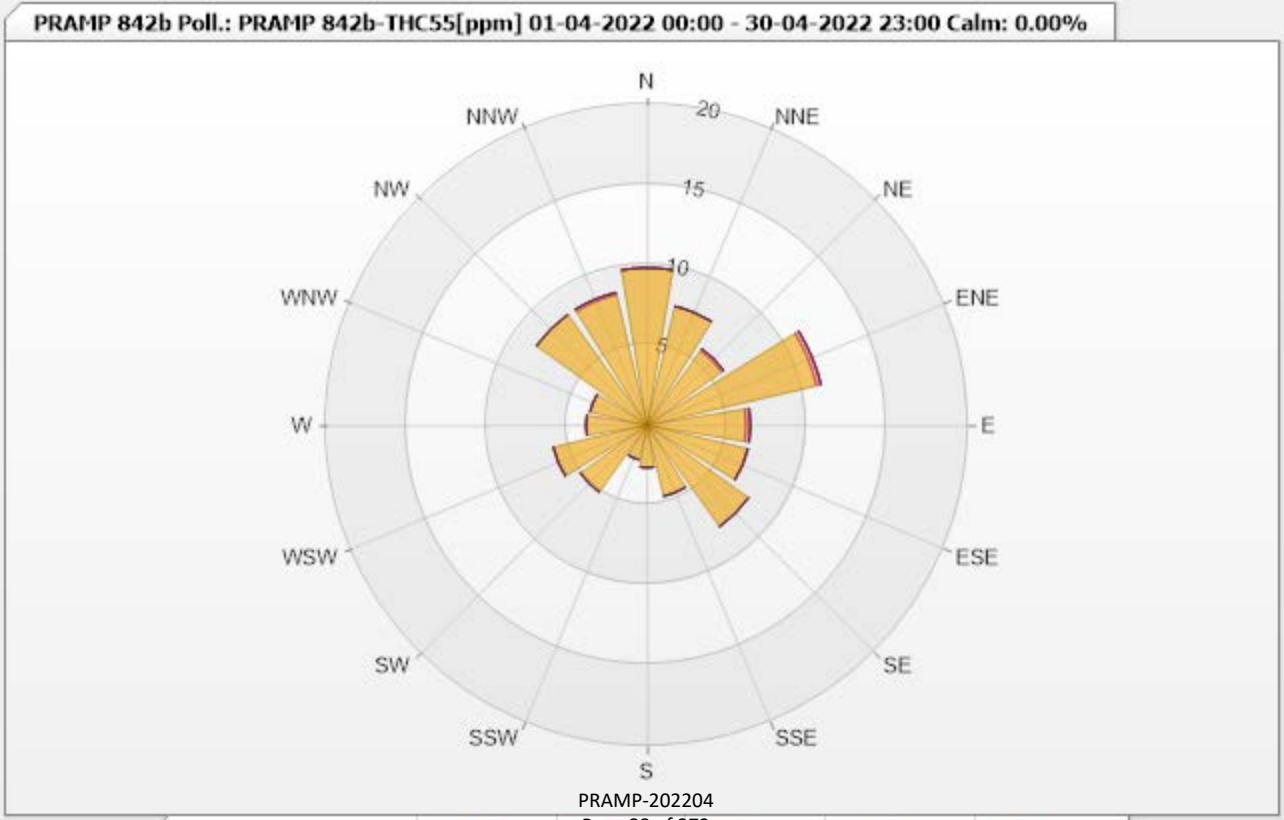




Classes	THC55
<=1.7	0.00%
1.7 - 2	99.12%
2 - 2.5	0.88%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-THC55[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	9.81	0	0	0	0	9.81
NNE	7.61	0	0	0	0	7.61
NE	5.71	0.15	0	0	0	5.86
ENE	10.83	0.29	0	0	0	11.12
E	6.15	0.29	0	0	0	6.44
ESE	6.44	0	0	0	0	6.44
SE	7.76	0	0	0	0	7.76
SSE	4.54	0	0	0	0	4.54
S	2.64	0	0	0	0	2.64
SSW	2.2	0	0	0	0	2.2
SW	5.12	0	0	0	0	5.12
WSW	6	0	0	0	0	6
W	3.81	0	0	0	0	3.81
WNW	3.66	0	0	0	0	3.66
NW	8.49	0	0	0	0	8.49
NNW	8.35	0.15	0	0	0	8.5
Summary	99.12	0.88	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-THC55[ppm] 01-04-2022 00:00 - 30-04-2022 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 0-2
1 2-5
0 5-10
0 10-40
0 >40.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - April 2022

Summary of Hourly Averages

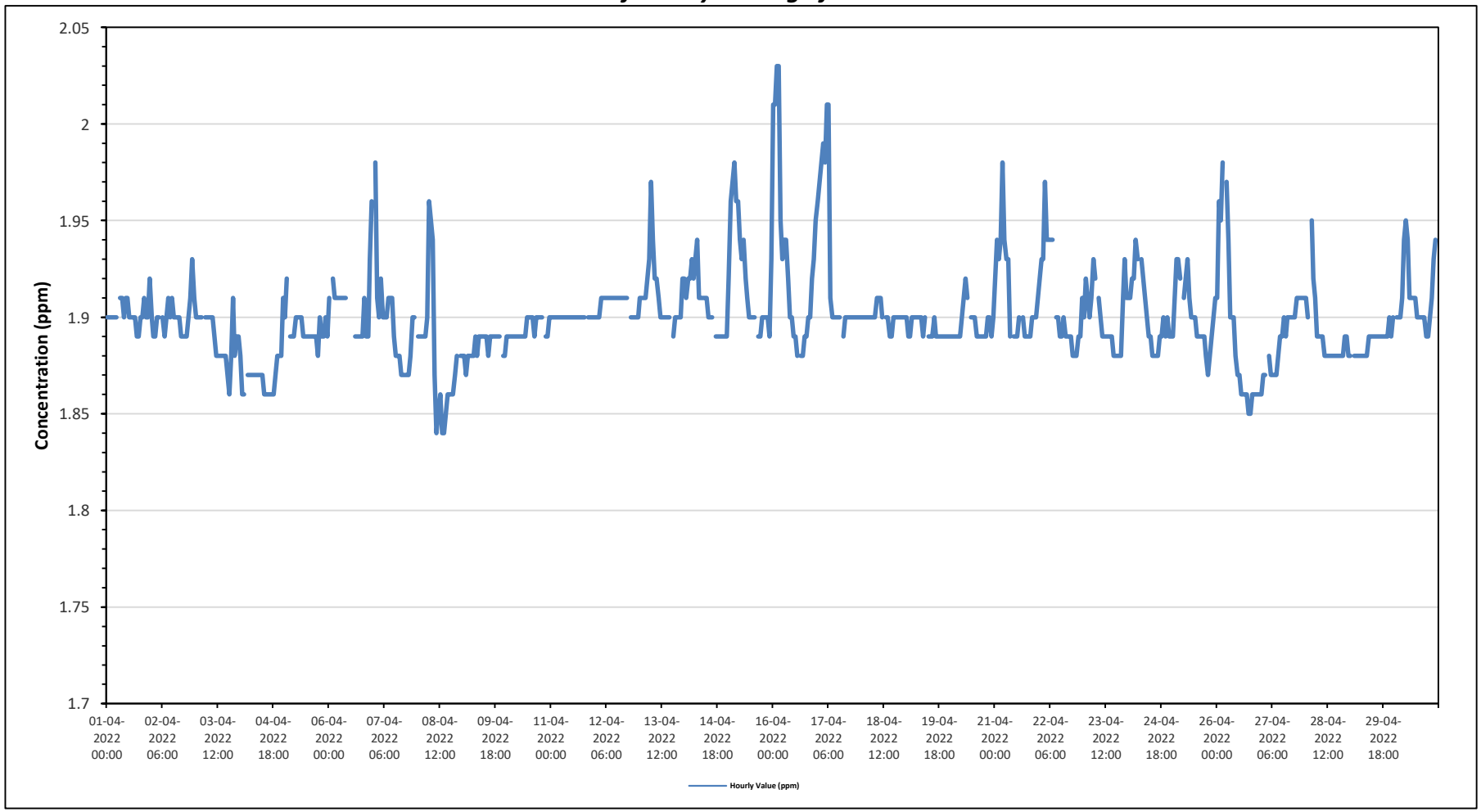
METHANE (CH4) in ppm

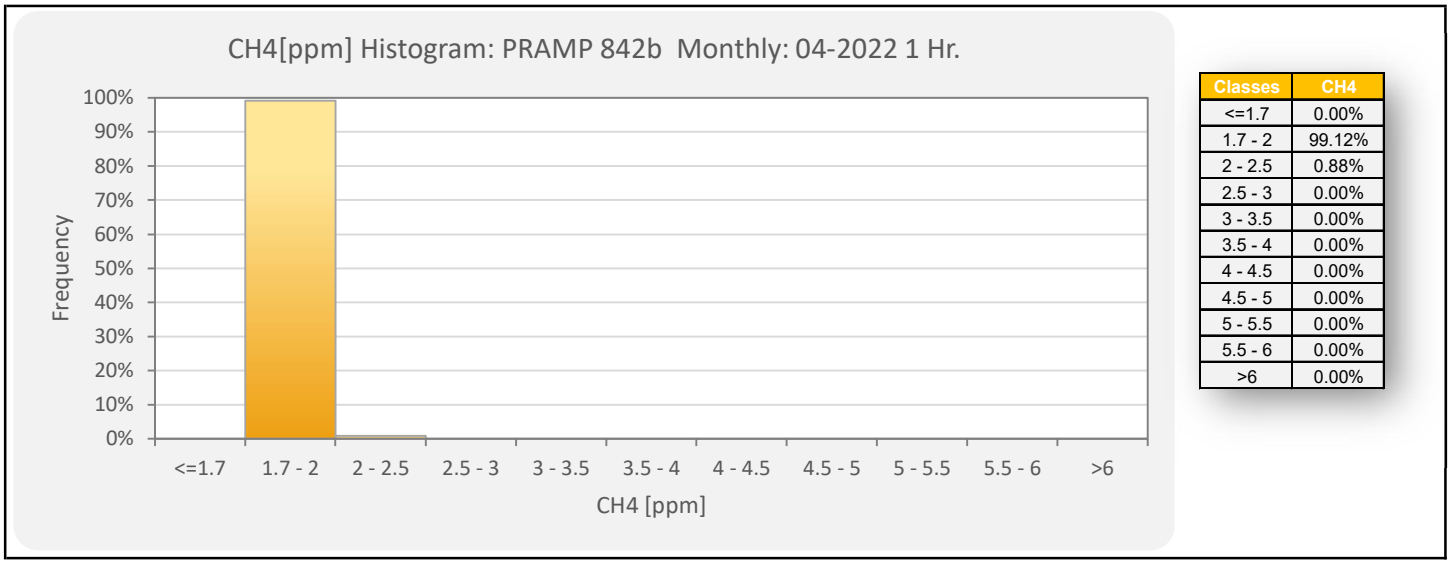
Maximum Hourly Value:	2.03	ppm	on April 16 at hour 2	Hours in Service:	720
Maximum Daily Value:	1.93	ppm	on April 16	Hours of Data:	683
Minimum Hourly Value:	1.84	ppm	on April 8 at hour 10	Hours of Missing Data:	1
Minimum Daily Value:	1.87	ppm	on April 4	Hours of Calibration:	36
Monthly Average:	1.90	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			
Apr 1	1.90	1.90	1.90	1.90	1.90	1.90	S	1.91	1.91	1.90	1.91	1.91	1.90	1.90	1.90	1.90	1.89	1.89	1.90	1.90	1.91	1.90	1.90	1.92	1.89	1.92	1.90
Apr 2	1.90	1.89	1.89	1.90	1.90	S	1.90	1.89	1.90	1.91	1.90	1.91	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.90	1.91	1.93	1.91	1.89	1.93	1.90
Apr 3	1.90	1.90	1.90	1.90	S	1.90	1.90	1.90	1.90	1.90	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.87	1.86	1.88	1.91	1.88	1.89	1.89	1.86	1.91	1.89
Apr 4	1.88	1.86	1.86	S	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.88	1.88	1.91	1.86	1.91	1.87
Apr 5	1.90	1.92	S	1.89	1.89	1.89	1.90	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.90	1.89	1.89	1.90	1.89	1.88	1.92	1.89
Apr 6	1.91	S	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	C	C	C	C	1.89	1.89	1.89	1.89	1.89	1.91	1.89	1.89	1.93	1.96	1.89	1.96	1.91
Apr 7	S	1.98	1.91	1.90	1.92	1.90	1.90	1.90	1.91	1.91	1.91	1.89	1.88	1.88	1.88	1.87	1.87	1.87	1.87	1.87	1.88	1.90	1.90	S	1.87	1.98	1.90
Apr 8	1.89	1.89	1.89	1.89	1.89	1.90	1.96	1.95	1.94	1.87	1.84	1.85	1.86	1.84	1.84	1.85	1.86	1.86	1.86	1.86	1.87	1.88	S	1.88	1.84	1.96	1.88
Apr 9	1.88	1.88	1.87	1.88	1.88	1.88	1.88	1.89	1.88	1.89	1.89	1.89	1.89	1.89	1.88	1.89	1.89	1.89	1.89	1.89	1.89	S	1.88	1.88	1.87	1.89	1.88
Apr 10	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.90	1.90	1.89	1.90	1.90	1.90	1.90	S	1.89	1.89	1.90	1.89	1.90	1.89
Apr 11	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	S	1.90	1.90	1.90	1.90	1.90	1.90	1.90
Apr 12	1.90	1.90	1.90	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	S	1.90	1.90	1.90	1.90	1.90	1.90	1.91	1.91
Apr 13	1.91	1.91	1.91	1.91	1.92	1.93	1.97	1.94	1.92	1.92	1.91	1.90	1.90	1.90	1.90	1.90	1.90	S	1.89	1.90	1.90	1.90	1.90	1.92	1.89	1.97	1.91
Apr 14	1.92	1.91	1.92	1.92	1.93	1.92	1.93	1.94	1.91	1.91	1.91	1.91	1.91	1.90	1.90	1.90	S	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.94	1.91
Apr 15	1.92	1.96	1.97	1.98	1.96	1.96	1.94	1.93	1.94	1.92	1.91	1.90	1.90	1.90	1.90	S	1.89	1.89	1.90	1.90	1.90	1.90	1.89	1.93	1.89	1.98	1.92
Apr 16	2.01	2.01	**2.03**	**2.03**	1.95	1.93	1.94	1.94	1.92	1.90	1.90	1.89	1.89	1.88	S	1.88	1.88	1.89	1.89	1.90	1.90	1.92	1.93	1.95	1.88	**2.03**	**1.93**
Apr 17	1.96	1.97	1.98	1.99	1.98	2.01	2.01	1.91	1.90	1.90	1.90	1.90	1.90	S	1.89	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89	2.01	1.93
Apr 18	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.91	1.91	1.91	1.90	S	1.90	1.90	1.89	1.89	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.89	1.91	1.90
Apr 19	1.90	1.89	1.89	1.90	1.90	1.90	1.90	1.90	1.90	1.89	1.90	S	1.89	1.89	1.89	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.89
Apr 20	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.91	1.92	1.91	S	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.89	1.90	1.89	1.92	1.90
Apr 21	1.92	1.94	1.93	1.94	1.98	1.94	1.93	1.93	1.89	S	1.89	1.89	1.89	1.90	NRM	1.90	1.89	1.89	1.89	1.89	1.90	1.90	1.90	1.91	1.89	1.98	1.91
Apr 22	1.92	1.93	1.93	1.97	1.94	1.94	1.94	1.94	S	1.90	1.90	1.89	1.89	1.90	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.89	1.89	1.91	1.88	1.97	1.91
Apr 23	1.90	1.92	1.91	1.90	1.91	1.93	1.92	S	1.91	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.91	1.93	1.91	1.88	1.93	1.90
Apr 24	1.91	1.91	1.92	1.92	1.94	1.93	S	1.93	1.92	1.91	1.90	1.89	1.89	1.88	1.88	1.88	1.88	1.89	1.89	1.90	1.89	1.90	1.89	1.89	1.88	1.94	1.90
Apr 25	1.89	1.91	1.93	1.93	1.92	S	1.91	1.92	1.93	1.91	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.88	1.87	1.88	1.89	1.90	1.91	1.87	1.93	1.90
Apr 26	1.91	1.96	1.95	1.98	S	1.97	1.94	1.90	1.90	1.90	1.88	1.87	1.87	1.86	1.86	1.86	1.86	1.85	1.85	1.86	1.86	1.86	1.86	1.86	1.85	1.98	1.89
Apr 27	1.86	1.87	1.87	S	1.88	1.87	1.87	1.87	1.87	1.88	1.89	1.89	1.90	1.89	1.90	1.90	1.90	1.90	1.90	1.91	1.91	1.91	1.91	1.91	1.86	1.91	1.89
Apr 28	1.91	1.90	S	1.95	1.92	1.91	1.89	1.89	1.89	1.89	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.89	1.89	1.88	1.88	1.95	1.89
Apr 29	1.88	S	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.88	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.89	1.90	1.88	1.90	1.89
Apr 30	S	1.90	1.90	1.90	1.91	1.94	1.95	1.94	1.91	1.91	1.91	1.91	1.90	1.90	1.90	1.90	1.90	1.89	1.89	1.90	1.91	1.93	1.94	S	1.89	1.95	1.91
Diurnal Maximum	2.01	2.01	2.03	2.03	1.98	2.01	2.01	1.95	1.94	1.92	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.90	1.91	1.91	1.93	1.94	1.96			
Diurnal Average	1.91	1.91	1.91	1.92	1.91	1.91	1.92	1.91	1.90	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.90			

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.

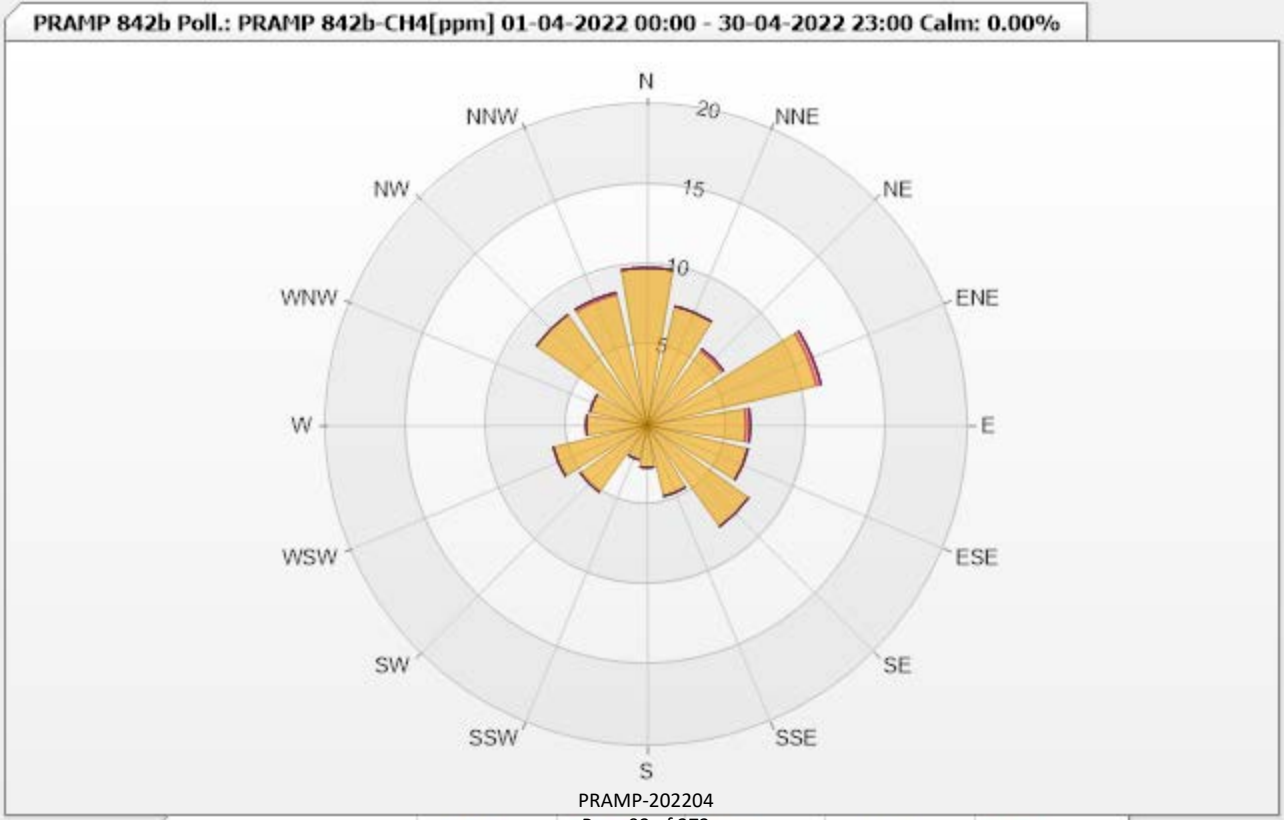

Timeseries Chart of Hourly Average for CH4 - 842b Station
Concentration (ppm)
2.05
2
1.95
1.9
1.85
1.8
1.75
1.7
01-04-2022 00:00
02-04-2022 06:00
03-04-2022 12:00
04-04-2022 18:00
06-04-2022 00:00
07-04-2022 06:00
08-04-2022 12:00
09-04-2022 18:00
11-04-2022 00:00
12-04-2022 06:00
13-04-2022 12:00
14-04-2022 18:00
16-04-2022 00:00
17-04-2022 06:00
18-04-2022 12:00
19-04-2022 18:00
21-04-2022 00:00
22-04-2022 06:00
23-04-2022 12:00
24-04-2022 18:00
26-04-2022 00:00
27-04-2022 06:00
28-04-2022 12:00
29-04-2022 18:00
Hourly Value (ppm)



Classes	CH4
<=1.7	0.00%
1.7 - 2	99.12%
2 - 2.5	0.88%
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: PRAMP 842b Poll.: PRAMP 842b-CH4[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	9.81	0	0	0	0	9.81
NNE	7.61	0	0	0	0	7.61
NE	5.71	0.15	0	0	0	5.86
ENE	10.83	0.29	0	0	0	11.12
E	6.15	0.29	0	0	0	6.44
ESE	6.44	0	0	0	0	6.44
SE	7.76	0	0	0	0	7.76
SSE	4.54	0	0	0	0	4.54
S	2.64	0	0	0	0	2.64
SSW	2.2	0	0	0	0	2.2
SW	5.12	0	0	0	0	5.12
WSW	6	0	0	0	0	6
W	3.81	0	0	0	0	3.81
WNW	3.66	0	0	0	0	3.66
NW	8.49	0	0	0	0	8.49
NNW	8.35	0.15	0	0	0	8.5
Summary	99.12	0.88	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-CH4[ppm] 01-04-2022 00:00 - 30-04-2022 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 0-2
1 2-5
0 5-10
0 10-20
0 >20.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - April 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

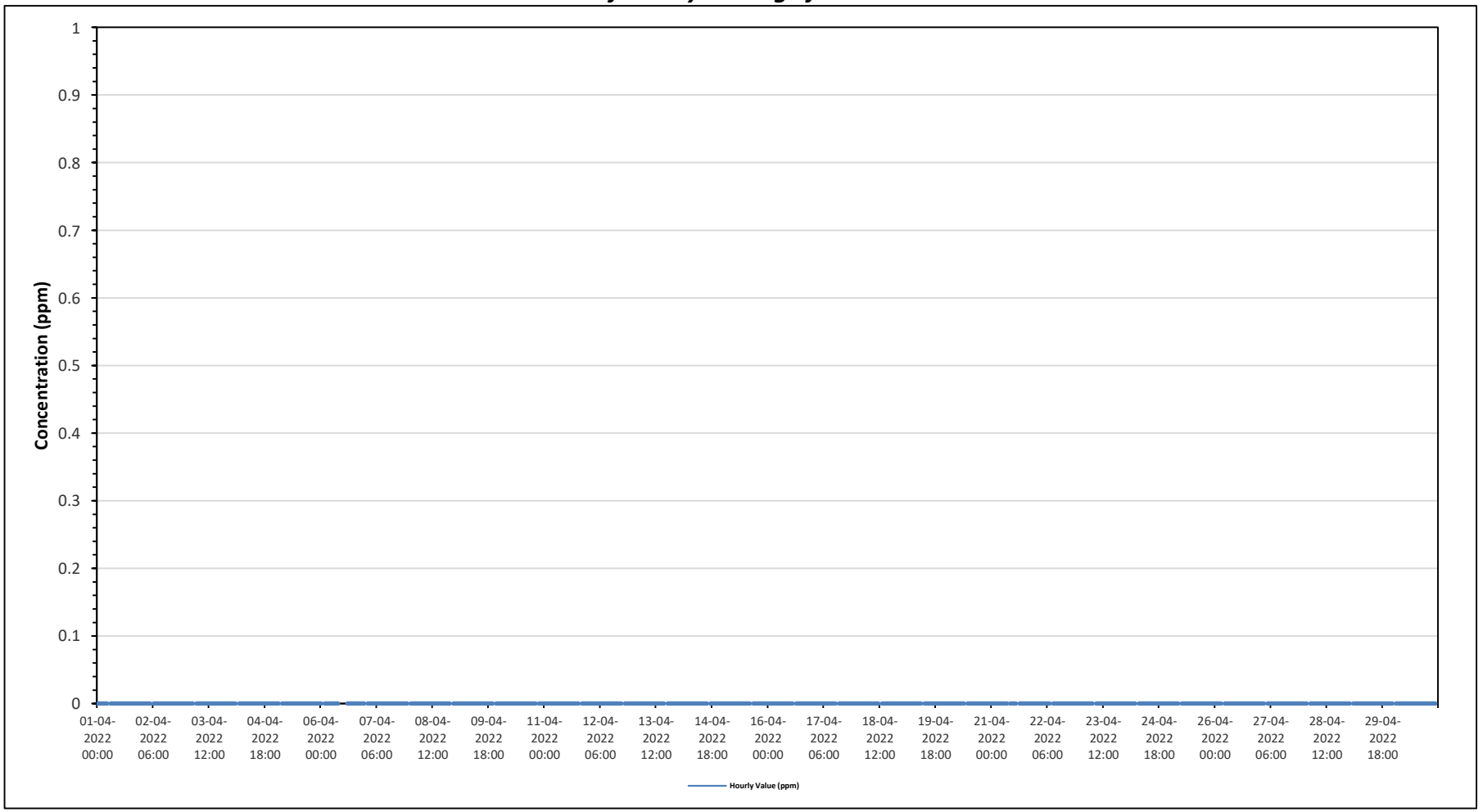
Maximum Hourly Value:	0.00	ppm	on April 1 at hour 0	Hours in Service:	720
Maximum Daily Value:	0.00	ppm	on April 1	Hours of Data:	683
Minimum Hourly Value:	0.00	ppm	on April 1 at hour 0	Hours of Missing Data:	1
Minimum Daily Value:	0.00	ppm	on April 1	Hours of Calibration:	36
Monthly Average:	0.00	ppm		Operational Uptime:	99.9

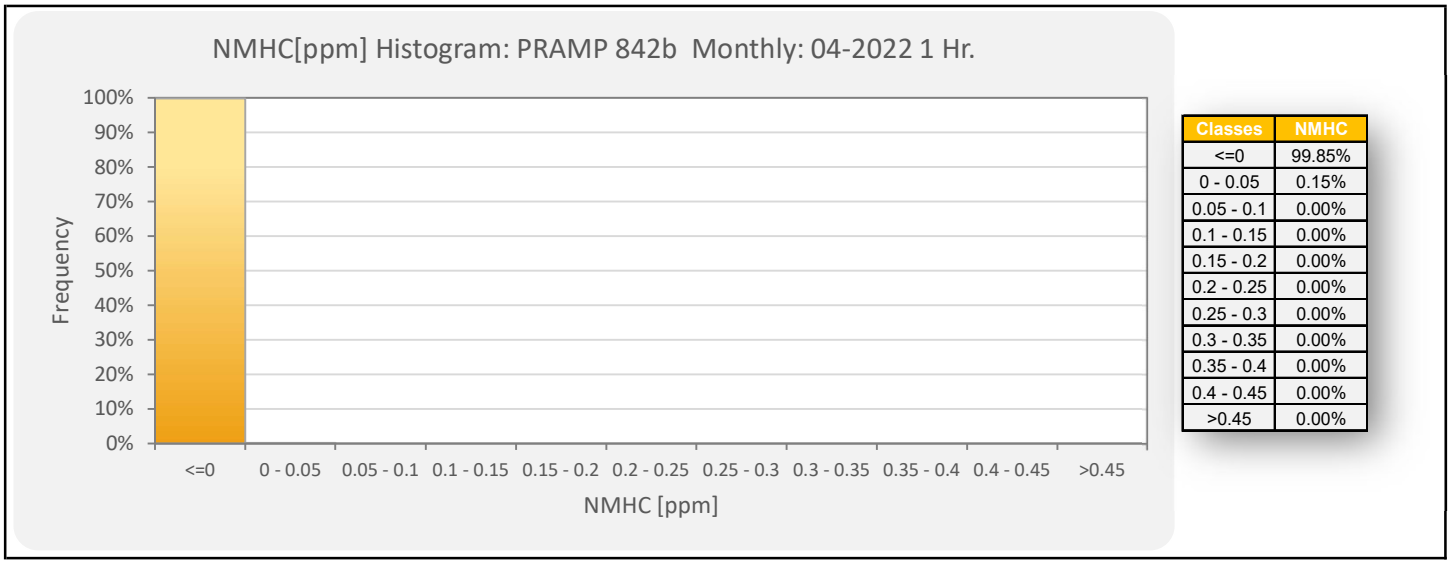
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 2	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
Apr 3	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
Apr 4	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
Apr 5	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
Apr 6	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	0.00	0.00	0.00	0.00	0.00
Apr 7	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
Apr 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00
Apr 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	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
Apr 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	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
Apr 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	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
Apr 12	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 13	0.00	0.00	0.00	0.00	0.00	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
Apr 14	0.00	0.00	0.00	0.00	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
Apr 15	0.00	0.00	0.00	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
Apr 16	0.00	0.00	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
Apr 17	0.00	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
Apr 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 19	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
Apr 20	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
Apr 21	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	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
Apr 22	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
Apr 23	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
Apr 24	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
Apr 25	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
Apr 26	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
Apr 27	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
Apr 28	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
Apr 29	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
Apr 30	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
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 - 842b Station

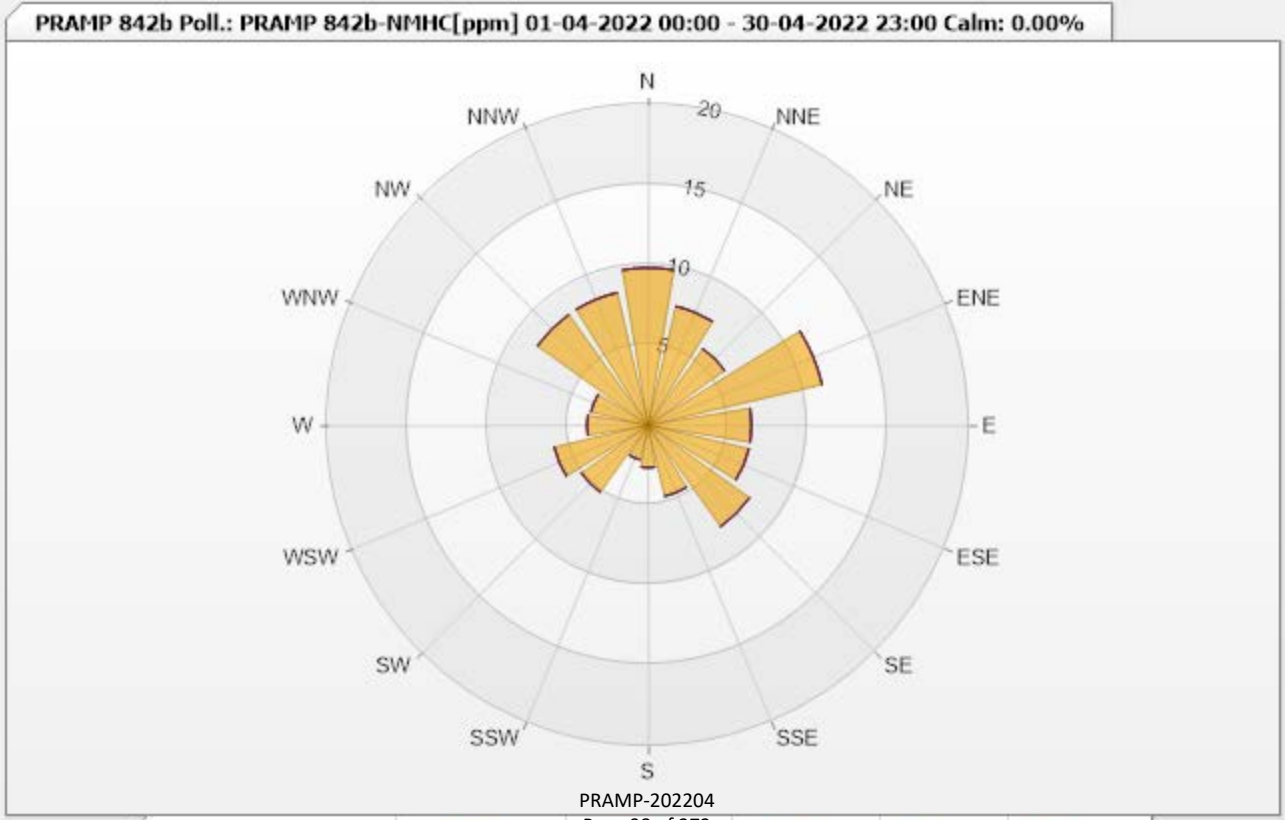




Classes	NMHC
<=0	99.85%
0 - 0.05	0.15%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-NMHC[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	9.81	0	0	0	0	9.81
NNE	7.61	0	0	0	0	7.61
NE	5.86	0	0	0	0	5.86
ENE	11.13	0	0	0	0	11.13
E	6.44	0	0	0	0	6.44
ESE	6.44	0	0	0	0	6.44
SE	7.76	0	0	0	0	7.76
SSE	4.54	0	0	0	0	4.54
S	2.64	0	0	0	0	2.64
SSW	2.2	0	0	0	0	2.2
SW	5.12	0	0	0	0	5.12
WSW	6	0	0	0	0	6
W	3.81	0	0	0	0	3.81
WNW	3.66	0	0	0	0	3.66
NW	8.49	0	0	0	0	8.49
NNW	8.49	0	0	0	0	8.49
Summary	100	0	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-NMHC[ppm] 01-04-2022 00:00 - 30-04-2022 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

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PEACE RIVER AREA MONITORING PROGRAM

842b Station - April 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

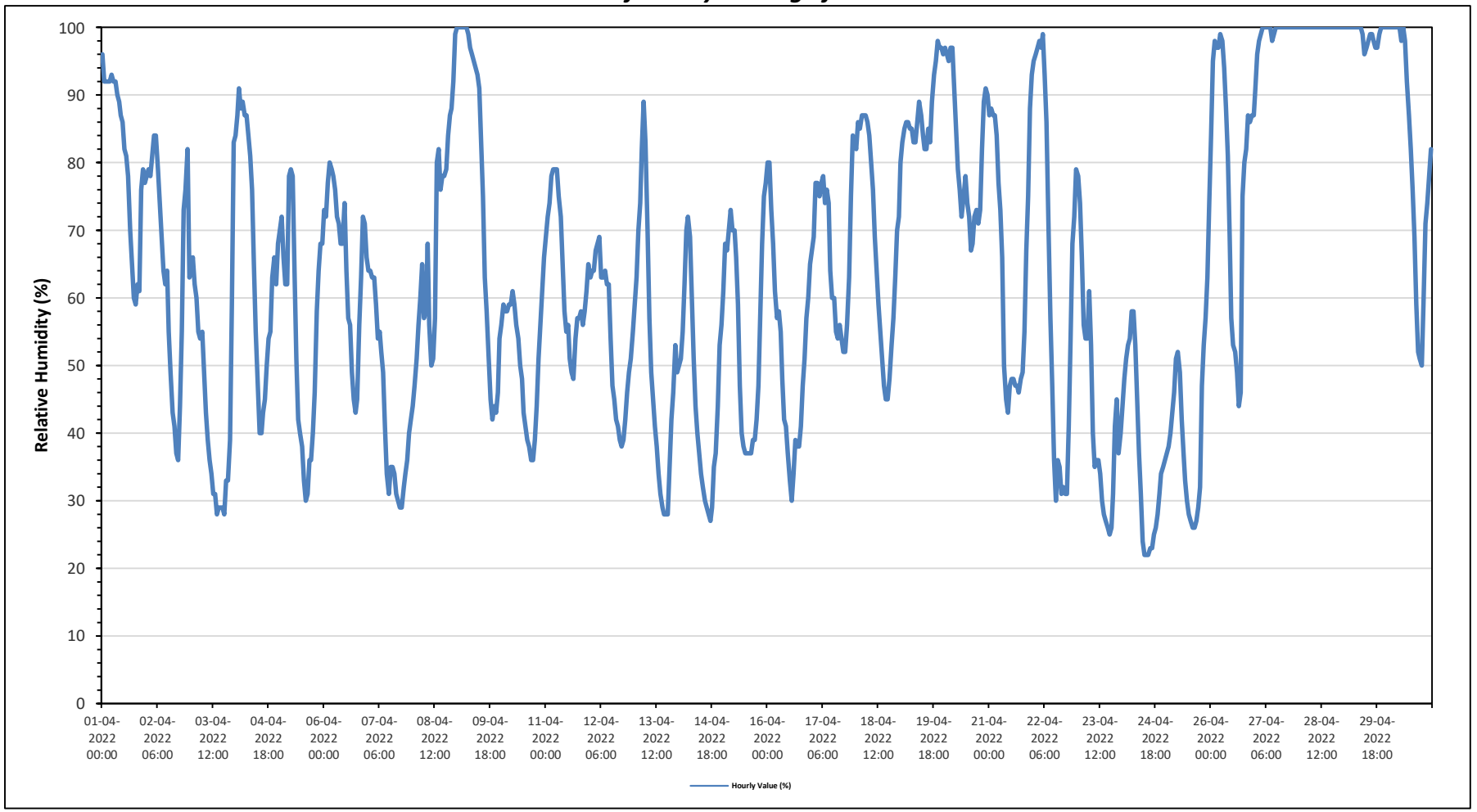
Maximum Hourly Value:	100	%	on April 9 at hour 0	Hours in Service:	720
Maximum Daily Value:	####	%	on April 28	Hours of Data:	720
Minimum Hourly Value:	22	%	on April 24 at hour 12	Hours of Missing Data:	0
Minimum Daily Value:	36.8	%	on April 24	Hours of Calibration:	0
Monthly Average:	65.0	%		Operational 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
Apr 1	96	92	92	92	92	93	92	92	90	89	87	86	82	81	78	70	65	60	59	62	61	76	79	77	59	96	81.0
Apr 2	78	79	78	81	84	84	79	74	69	64	62	64	55	49	43	41	37	36	44	55	73	76	82	63	36	84	64.6
Apr 3	64	66	62	60	55	54	55	49	43	39	36	34	31	31	28	29	29	29	28	33	33	39	59	83	28	83	44.5
Apr 4	84	87	91	88	89	87	87	84	81	76	65	55	48	40	40	43	45	50	54	55	63	66	62	68	40	91	67.0
Apr 5	70	72	66	62	62	78	79	78	64	51	42	40	38	33	30	31	36	36	40	46	58	64	68	68	30	79	54.7
Apr 6	73	72	77	80	79	78	76	72	71	68	68	74	64	57	56	49	45	43	45	56	63	72	71	66	43	80	65.6
Apr 7	64	64	63	63	59	54	55	52	49	41	34	31	35	35	34	31	30	29	29	32	34	36	40	42	29	64	43.2
Apr 8	44	47	51	56	60	65	57	58	68	56	50	51	57	80	82	76	78	78	79	84	87	88	92	99	44	99	68.5
Apr 9	**100**	**100**	**100**	**100**	**100**	**100**	99	97	96	95	94	93	91	83	75	63	58	51	45	42	44	43	46	54	42	**100**	77.9
Apr 10	56	59	58	58	59	59	61	59	56	54	50	48	43	41	39	38	36	36	39	44	51	56	61	66	36	66	51.1
Apr 11	69	72	74	78	79	79	79	75	72	65	58	55	56	51	49	48	54	57	57	58	56	58	61	65	48	79	63.5
Apr 12	63	64	64	67	68	69	63	63	64	62	62	54	47	45	42	41	39	38	39	42	46	49	51	55	38	69	54.0
Apr 13	59	63	70	74	82	89	83	70	57	49	45	41	38	34	31	29	28	28	28	35	42	46	53	49	28	89	51.0
Apr 14	50	51	55	62	70	72	69	60	51	44	40	37	34	32	30	29	28	27	29	35	37	44	53	56	27	72	45.6
Apr 15	61	68	67	70	73	70	70	66	59	47	40	38	37	37	37	37	39	39	42	47	56	68	75	77	37	77	55.0
Apr 16	80	80	73	68	61	57	58	55	48	42	41	37	33	30	34	39	38	38	41	47	51	57	60	65	30	80	51.4
Apr 17	67	69	77	77	75	77	78	74	76	74	64	60	60	55	54	56	54	52	52	56	63	75	84	83	52	84	67.2
Apr 18	82	86	85	87	87	87	86	84	80	76	69	64	59	55	51	47	45	45	48	53	57	63	70	72	45	87	68.3
Apr 19	80	83	85	86	86	85	85	83	83	86	89	87	84	82	82	85	83	89	93	95	98	97	97	96	80	98	87.5
Apr 20	97	96	95	97	97	91	85	79	76	72	75	78	74	72	67	68	72	73	71	73	82	89	91	90	67	97	81.7
Apr 21	87	88	87	87	84	77	73	66	50	45	43	47	48	48	47	47	46	48	49	55	67	75	88	93	43	93	64.4
Apr 22	95	96	97	98	97	99	93	86	70	57	47	36	30	36	35	31	32	31	31	41	54	68	72	79	30	99	63.0
Apr 23	78	74	66	56	54	54	61	53	40	35	36	36	34	30	28	27	26	25	26	31	41	45	37	40	25	78	43.0
Apr 24	44	48	51	53	54	58	58	53	45	37	31	24	**22**	**22**	**22**	23	23	25	26	28	31	34	35	36	**22**	58	36.8
Apr 25	37	38	40	43	46	51	52	49	42	37	33	30	28	27	26	26	27	29	32	47	53	57	63	74	26	74	41.1
Apr 26	84	95	98	97	97	99	98	94	88	81	69	57	53	52	49	44	46	75	80	82	87	86	87	87	44	99	78.5
Apr 27	91	96	98	99	**100**	**100**	**100**	**100**	**100**	98	99	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	91	**100**	99.2
Apr 28	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	100	**100**	**100.0**
Apr 29	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	96	97	98	99	99	98	97	97	99	**100**	**100**	**100**	**100**	96	**100**	99.1
Apr 30	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	**100**	98	92	87	82	76	69	59	52	51	50	60	71	74	78	82	50	**100**	82.5
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100			
Diurnal Average	75.1	76.8	77.3	78.0	78.3	78.9	77.7	74.1	69.6	64.6	60.7	58.0	55.3	53.7	51.9	50.2	49.6	50.5	51.8	56.4	62.0	66.7	70.5	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 - 842b Station



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - April 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

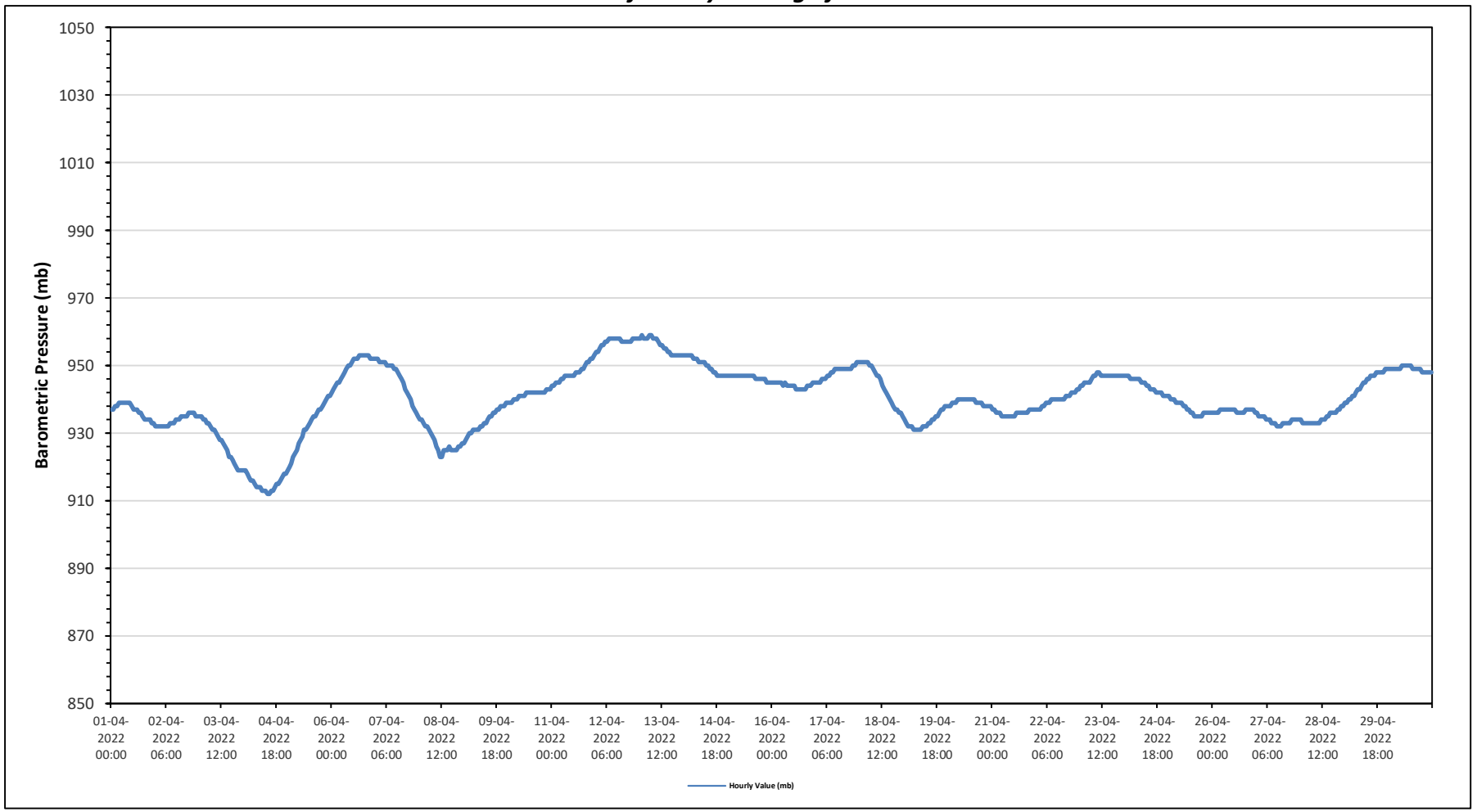
Maximum Hourly Value:	959	mb	on April 13 at hour 1	Hours in Service:	720
Maximum Daily Value:	957	mb	on April 12	Hours of Data:	720
Minimum Hourly Value:	912	mb	on April 4 at hour 13	Hours of Missing Data:	0
Minimum Daily Value:	915	mb	on April 4	Hours of Calibration:	0
Monthly Average:	940	mb		Operational 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
Apr 1	937	937	938	938	939	939	939	939	939	939	939	938	937	937	937	936	936	935	934	934	934	934	933	933	933	939	937
Apr 2	932	932	932	932	932	932	932	932	933	933	933	934	934	934	935	935	935	935	936	936	936	936	935	935	932	936	934
Apr 3	935	935	934	934	933	933	932	931	931	930	929	928	928	927	926	925	923	923	922	921	920	919	919	919	919	935	927
Apr 4	919	919	918	917	916	916	915	914	914	914	913	913	913	**912**	**912**	913	913	914	915	915	916	917	918	918	**912**	919	915
Apr 5	919	920	921	923	924	925	927	928	929	931	931	932	933	934	935	935	936	937	937	938	939	940	941	941	919	941	932
Apr 6	942	943	944	945	945	946	947	948	949	950	950	951	952	952	952	953	953	953	953	953	953	952	952	952	942	953	950
Apr 7	952	952	951	951	951	951	950	950	950	950	949	949	948	947	946	945	943	942	941	940	938	937	936	935	935	952	946
Apr 8	934	934	933	932	932	931	930	929	928	926	925	923	923	925	925	925	926	925	925	925	925	926	926	927	923	934	928
Apr 9	927	928	929	930	930	931	931	931	931	932	932	933	933	934	935	935	936	936	937	937	938	938	938	939	927	939	933
Apr 10	939	939	939	940	940	940	941	941	941	941	942	942	942	942	942	942	942	942	942	942	942	943	943	943	939	943	941
Apr 11	944	944	945	945	945	946	946	947	947	947	947	947	947	948	948	948	949	949	950	951	951	952	952	953	944	953	948
Apr 12	954	954	955	956	956	957	957	958	958	958	958	958	958	958	957	957	957	957	957	957	958	958	958	958	954	958	**957**
Apr 13	958	**959**	958	958	958	**959**	**959**	958	958	958	957	956	956	955	955	954	954	953	953	953	953	953	953	953	953	**959**	956
Apr 14	953	953	953	953	953	952	952	952	951	951	951	951	950	950	949	949	948	948	947	947	947	947	947	947	947	953	950
Apr 15	947	947	947	947	947	947	947	947	947	947	947	947	947	947	947	946	946	946	946	946	946	945	945	945	945	947	947
Apr 16	945	945	945	945	945	945	944	945	944	944	944	944	944	943	943	943	943	943	943	944	944	944	945	945	943	945	944
Apr 17	945	945	945	946	946	946	947	947	948	948	949	949	949	949	949	949	949	949	949	949	950	950	951	951	945	951	948
Apr 18	951	951	951	951	951	950	950	949	948	947	947	946	944	943	942	941	940	939	938	937	937	936	936	935	935	951	944
Apr 19	934	933	932	932	932	931	931	931	931	931	932	932	932	933	933	934	934	935	935	936	937	937	938	938	931	938	934
Apr 20	938	938	939	939	939	940	940	940	940	940	940	940	940	940	940	939	939	939	939	938	938	938	938	938	938	940	939
Apr 21	937	937	936	936	936	935	935	935	935	935	935	935	935	936	936	936	936	936	936	936	937	937	937	937	935	937	936
Apr 22	937	937	937	938	938	939	939	939	940	940	940	940	940	940	940	940	941	941	941	942	942	942	943	943	937	943	940
Apr 23	944	944	945	945	945	945	946	947	947	948	948	947	947	947	947	947	947	947	947	947	947	947	947	947	944	948	946
Apr 24	947	947	947	946	946	946	946	946	946	945	945	945	944	944	943	943	943	942	942	942	942	941	941	941	941	947	944
Apr 25	941	940	940	940	939	939	939	939	938	938	937	937	936	936	935	935	935	935	935	936	936	936	936	936	935	941	937
Apr 26	936	936	936	936	937	937	937	937	937	937	937	937	937	936	936	936	936	936	937	937	937	937	937	936	936	937	937
Apr 27	936	935	935	935	935	934	934	934	933	933	933	932	932	932	933	933	933	933	933	934	934	934	934	934	932	936	934
Apr 28	934	933	933	933	933	933	933	933	933	933	933	934	934	934	935	935	936	936	936	936	937	937	938	938	933	938	935
Apr 29	939	939	940	940	941	941	942	943	943	944	945	945	946	946	947	947	947	948	948	948	948	948	949	949	939	949	945
Apr 30	949	949	949	949	949	949	949	950	950	950	950	950	950	949	949	949	949	949	948	948	948	948	948	948	948	950	949
Diurnal Maximum	958	959	958	958	958	959	959	958	958	958	958	958	958	958	957	957	957	957	957	957	958	958	958	958			
Diurnal Average	940	940	940	940	940	941	941	941	941	941	941	941	940	940	940	940	940	940	940	940	940	940	940	940			

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

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

Timeseries Chart of Hourly Average for BP - 842b Station



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - April 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

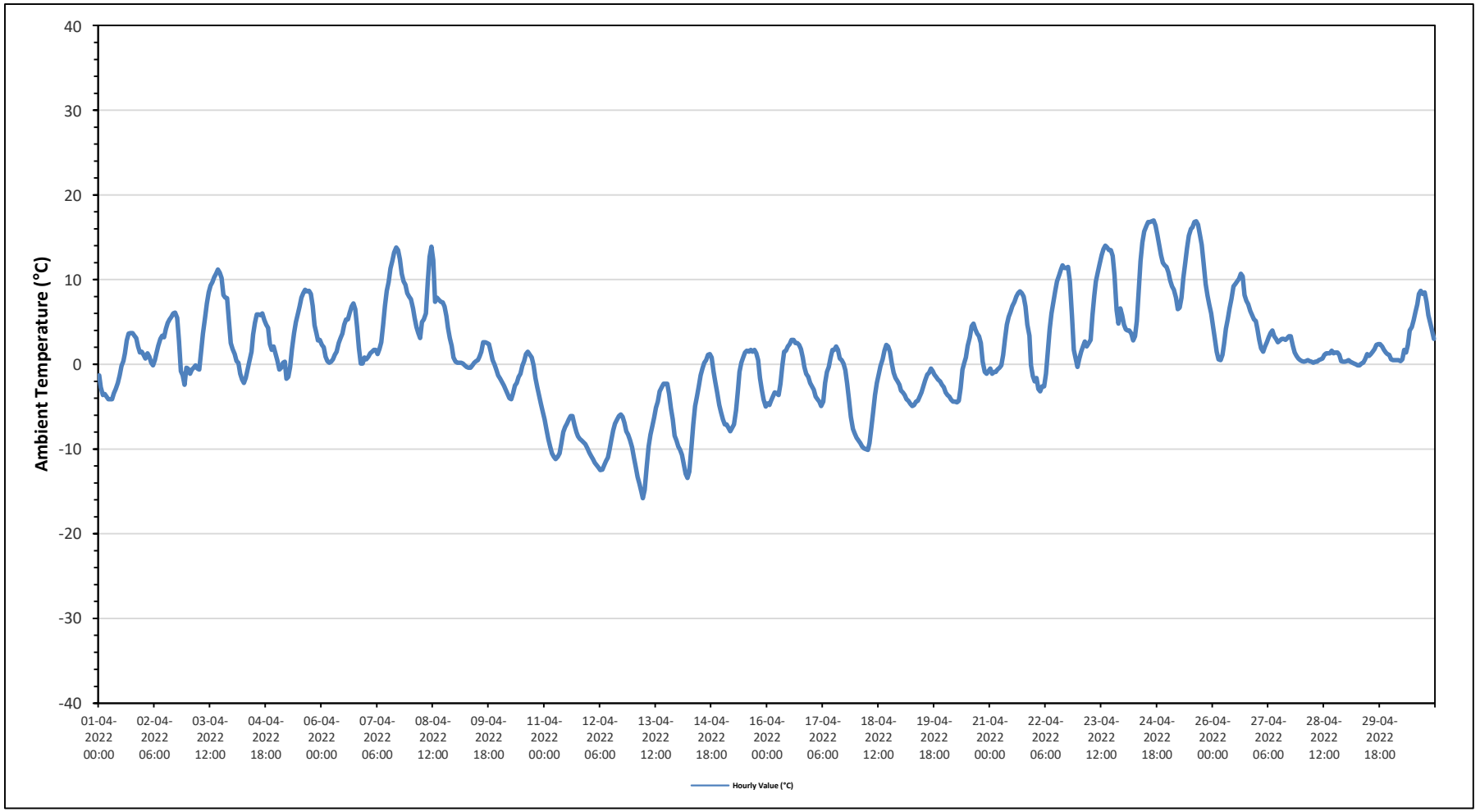
Maximum Hourly Value:	17.0	°C	on April 24 at hour 16	Hours in Service:	720
Maximum Daily Value:	11.4	°C	on April 25	Hours of Data:	720
Minimum Hourly Value:	-15.8	°C	on April 13 at hour 5	Hours of Missing Data:	0
Minimum Daily Value:	-9.5	°C	on April 12	Hours of Calibration:	0
Monthly Average:	1.2	°C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	-1.3	-2.7	-3.6	-3.5	-3.8	-4.1	-4.1	-4.1	-3.4	-2.9	-2.2	-1.3	-0.2	0.4	1.3	2.8	3.6	3.7	3.7	3.4	3.1	2.1	1.4	1.5	-4.1	3.7	-0.4
Apr 2	1.1	0.7	1.3	0.9	0.2	-0.1	0.5	1.3	2.2	3	3.4	3.2	4.2	4.9	5.3	5.6	6	6.1	5.5	2.7	-0.8	-1.3	-2.4	-0.4	-2.4	6.1	2.2
Apr 3	-0.5	-1.1	-0.6	-0.4	-0.1	-0.5	-0.6	1.5	3.6	5.5	7.2	8.5	9.3	9.7	10.3	10.7	11.2	10.8	10.2	8.2	7.9	7.8	5.1	2.5	-1.1	11.2	5.3
Apr 4	1.8	1.2	0.4	0.2	-1.1	-1.8	-2.2	-1.6	-0.6	0.4	1.5	3.5	4.9	5.9	5.9	5.8	6	5.2	4.7	4.3	2.4	1.7	2.1	1.3	-2.2	6.0	2.2
Apr 5	0.5	-0.6	-0.4	0.2	0.3	-1.7	-1.5	-0.3	1.8	3.7	5	5.9	6.8	7.9	8.4	8.8	8.6	8.7	8.3	6.9	4.6	3.7	2.8	2.9	-1.7	8.8	3.8
Apr 6	2.3	2	0.9	0.4	0.2	0.3	0.6	1.1	1.5	2.5	3.1	3.6	4.7	5.3	5.3	6.1	6.8	7.2	6.5	4.4	1.9	0.1	0.1	0.8	0.1	7.2	2.8
Apr 7	0.6	0.9	1.3	1.5	1.7	1.7	1.2	1.8	2.6	4.6	6.9	8.7	9.7	11.3	12.2	13.2	13.8	13.5	12.4	10.7	9.8	9.4	8.4	8	0.6	13.8	6.9
Apr 8	7.7	6.6	5.5	4.4	3.7	3.1	5	5.3	6	9.7	12.7	13.9	12.3	7.4	7.9	7.6	7.4	7.3	6.8	5.7	4.3	3.1	2.2	0.8	0.8	13.9	6.5
Apr 9	0.3	0.2	0.2	0.2	0.1	-0.1	-0.3	-0.4	-0.4	-0.1	0.2	0.4	0.5	0.9	1.5	2.6	2.6	2.5	2.4	1.5	0.5	0	-0.6	-1.3	-1.3	2.6	0.6
Apr 10	-1.7	-2.1	-2.5	-3	-3.5	-4	-4.1	-3.4	-2.5	-2.2	-1.5	-1.1	-0.2	0.4	1.2	1.5	1.1	0.8	-0.1	-1.6	-2.7	-3.7	-4.7	-5.6	-5.6	1.5	-1.9
Apr 11	-6.5	-7.7	-8.8	-9.7	-10.5	-10.9	-11.2	-10.9	-10.5	-9.3	-8	-7.4	-7	-6.5	-6.1	-6.1	-7.2	-8	-8.5	-8.8	-9	-9.2	-9.4	-9.9	-11.2	-6.1	-8.6
Apr 12	-10.4	-10.8	-11.2	-11.6	-11.9	-12.2	-12.5	-12.4	-11.9	-11.4	-11	-10.1	-8.9	-7.8	-7	-6.5	-6.1	-5.9	-6.2	-6.9	-7.9	-8.3	-8.9	-9.8	-12.5	-5.9	-9.5
Apr 13	-11	-12.1	-13.3	-14.1	-15	**-15.8**	-14.8	-12	-9.7	-8.3	-7.3	-6.3	-5.1	-4.4	-3.2	-2.7	-2.3	-2.3	-2.3	-3.5	-5.2	-6.5	-8.4	-9	**-15.8**	-2.3	-8.1
Apr 14	-9.7	-10.1	-10.7	-11.8	-12.9	-13.4	-12.7	-9.8	-7.1	-4.9	-3.8	-2.6	-1.3	-0.5	0.2	0.5	1.1	1.2	0.8	-0.8	-2.1	-3.3	-4.8	-5.7	-13.4	1.2	-5.2
Apr 15	-6.5	-7.1	-7.1	-7.5	-7.9	-7.5	-7.1	-5.4	-3.1	-0.9	0.2	0.8	1.4	1.6	1.5	1.7	1.5	1.7	1.3	0.5	-1.6	-3	-4.2	-5	-7.9	1.7	-2.6
Apr 16	-4.6	-4.8	-4.3	-3.8	-3.3	-3.4	-3.6	-2.3	-0.2	1.5	1.6	2.1	2.4	2.9	2.9	2.5	2.5	2.3	1.8	0.8	-0.3	-1.1	-1.5	-2.2	-4.8	2.9	-0.5
Apr 17	-2.6	-3	-3.8	-4.1	-4.4	-4.9	-4.4	-2.2	-0.9	-0.3	0.8	1.7	1.7	2.1	1.7	0.7	0.5	0.1	-0.7	-2.3	-4.2	-6.2	-7.6	-8.2	-8.2	2.1	-2.1
Apr 18	-8.7	-9	-9.3	-9.7	-9.9	-10	-10.1	-9.3	-7.5	-5.6	-3.6	-2.2	-1.2	-0.2	0.6	1.6	2.3	2.1	1.5	0.1	-1	-1.6	-2	-2.4	-10.1	2.3	-4.0
Apr 19	-3.1	-3.3	-3.6	-4.1	-4.3	-4.7	-4.9	-4.8	-4.4	-4.3	-3.8	-3.3	-2.6	-1.9	-1.2	-1	-0.5	-0.8	-1.2	-1.5	-1.8	-2	-2.4	-2.7	-4.9	-0.5	-2.8
Apr 20	-3.3	-3.6	-3.8	-4.2	-4.4	-4.4	-4.5	-4.3	-2.8	-0.6	0.2	0.8	2.2	3.2	4.5	4.8	4.1	3.6	3.3	2.5	0.3	-0.9	-1.1	-0.8	-4.5	4.8	-0.4
Apr 21	-0.5	-1.1	-0.9	-0.9	-0.6	-0.4	-0.1	1.1	3	4.7	5.6	6.2	6.9	7.4	8	8.4	8.6	8.4	8	6.8	4.7	3.4	-0.1	-1.4	-1.4	8.6	3.6
Apr 22	-2	-1.6	-2.9	-3.2	-2.6	-2.6	-1.1	1.5	4.1	6	7.3	8.6	9.8	10.5	11.2	11.7	11.4	11.4	11.5	9.8	5.7	1.7	0.7	-0.3	-3.2	11.7	4.4
Apr 23	0.7	1.5	2.1	2.7	2.1	2.5	2.9	5.8	8.1	9.8	10.8	11.8	12.9	13.6	14	13.8	13.5	13.5	12.8	10.5	6.4	4.8	6.6	5.8	0.7	14.0	7.9
Apr 24	4.7	4.1	4	4	3.6	2.8	3.3	5.1	8.6	12.2	14.4	15.7	16.3	16.8	16.8	16.9	**17**	16.4	15.3	14.1	12.9	12	11.7	11.5	2.8	**17.0**	10.8
Apr 25	10.9	9.9	9.2	8.8	7.9	6.5	6.7	7.9	10.2	11.9	13.7	15.2	16	16.2	16.8	16.9	16.5	15.3	14.1	12	9.5	8.1	7	6	6.0	16.9	**11.4**
Apr 26	4.5	3	1.5	0.6	0.5	1.1	2.4	4.2	5.3	6.6	7.7	9.2	9.5	9.8	10.1	10.7	10.4	8.2	7.5	7.1	6.3	5.8	5.3	5.1	0.5	10.7	5.9
Apr 27	4.2	2.9	1.9	1.5	2.1	2.6	3.2	3.7	4	3.3	3	2.6	2.8	3	3	2.9	3.1	3.3	3.3	2.2	1.4	1	0.7	0.5	0.5	4.2	2.6
Apr 28	0.4	0.3	0.4	0.5	0.4	0.3	0.2	0.3	0.3	0.5	0.6	0.7	1.1	1.3	1.3	1.3	1.6	1.3	1.4	1.4	1.1	0.4	0.3	0.3	0.2	1.6	0.7
Apr 29	0.4	0.5	0.3	0.2	0.1	0	-0.1	-0.1	0.1	0.2	0.6	1.2	1	1.2	1.5	1.8	2.3	2.4	2.4	2.1	1.7	1.4	1.2	1.1	-0.1	2.4	1.0
Apr 30	0.6	0.5	0.5	0.5	0.5	0.4	0.6	1.7	1.4	2.3	4	4.4	5.2	6.2	7.1	8.3	8.7	8.3	8.5	7.4	5.8	4.9	4	3	0.4	8.7	4.0
Diurnal Maximum	10.9	9.9	9.2	8.8	7.9	6.5	6.7	7.9	10.2	12.2	14.4	15.7	16.3	16.8	16.8	16.9	17.0	16.4	15.3	14.1	12.9	12.0	11.7	11.5			
Diurnal Average	-1.1	-1.5	-1.9	-2.2	-2.4	-2.7	-2.4	-1.4	-0.1	1.3	2.3	3.1	3.8	4.3	4.8	5.1	5.2	4.9	4.5	3.3	1.8	0.8	0.1	-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 AT - 842b Station



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - April 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

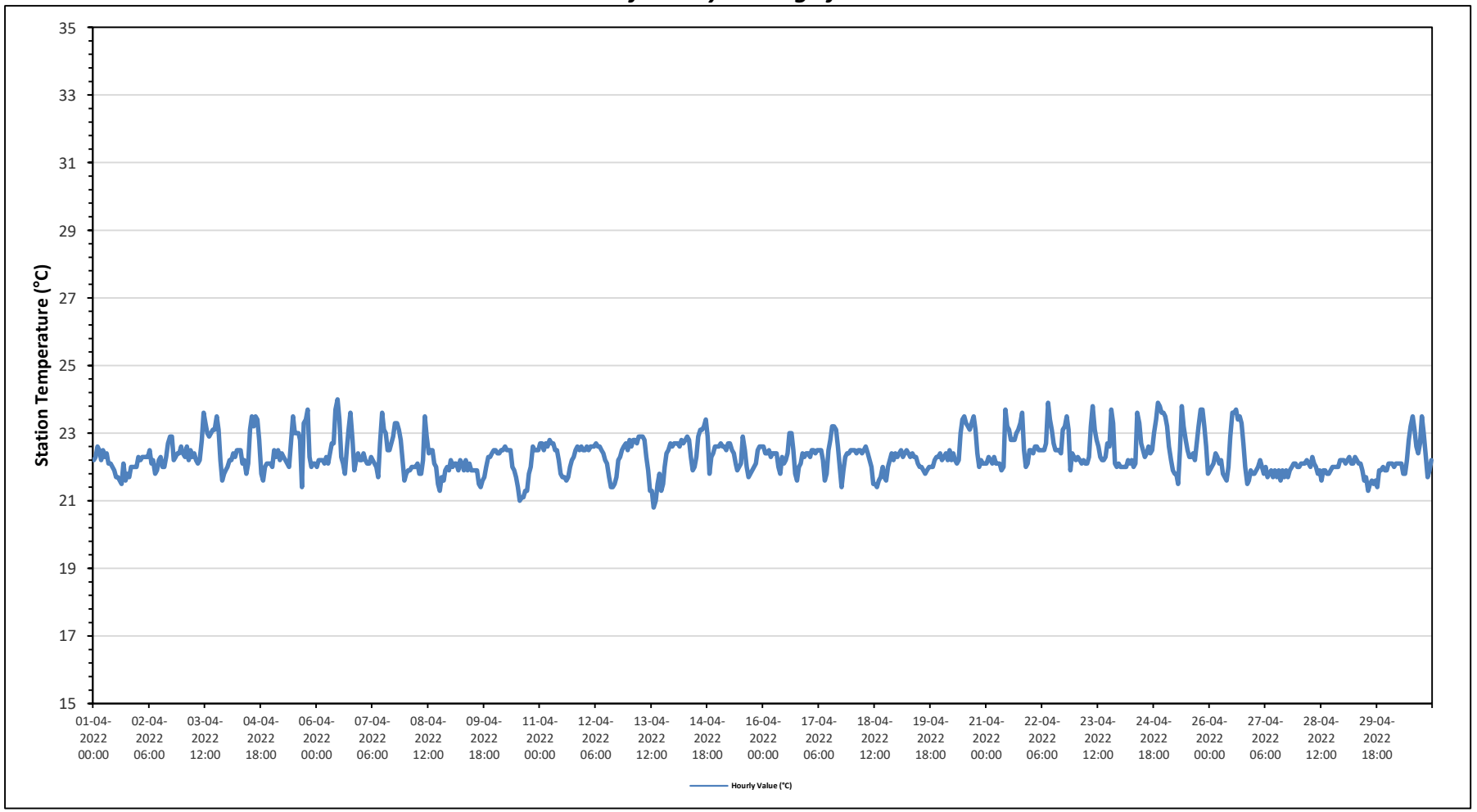
Maximum Hourly Value:	24.0	°C	on April 6 at hour 11	Hours in Service:	720
Maximum Daily Value:	22.7	°C	on April 22	Hours of Data:	720
Minimum Hourly Value:	20.8	°C	on April 13 at hour 13	Hours of Missing Data:	0
Minimum Daily Value:	21.9	°C	on April 27	Hours of Calibration:	0
Monthly Average:	22.3	°C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	22.2	22.3	22.6	22.5	22.2	22.5	22.3	22.4	22.1	22.1	22.0	21.9	21.7	21.7	21.6	21.5	22.1	21.6	21.8	21.7	22.0	22.0	22.0	22.0	21.5	22.6	22.0
Apr 2	22.3	22.2	22.3	22.3	22.3	22.3	22.5	22.1	22.2	21.8	21.9	22.2	22.3	22.0	22.0	22.3	22.7	22.9	22.9	22.2	22.3	22.4	22.4	22.6	21.8	22.9	22.3
Apr 3	22.4	22.3	22.6	22.2	22.5	22.3	22.4	22.2	22.1	22.2	22.8	23.6	23.3	23.0	22.9	23.0	23.1	23.1	23.5	23.1	22.2	21.6	21.8	21.9	21.6	23.6	22.6
Apr 4	22.0	22.2	22.2	22.4	22.3	22.5	22.5	22.5	22.1	22.2	21.8	22.1	23.1	23.5	23.2	23.5	23.4	22.8	21.8	21.6	22.0	22.1	22.1	22.1	21.6	23.5	22.4
Apr 5	22.0	22.5	22.3	22.5	22.2	22.4	22.3	22.2	22.1	22.0	22.7	23.5	23.0	23.0	23.0	22.8	21.4	23.3	23.4	23.7	22.3	22.0	22.1	22.1	21.4	23.7	22.5
Apr 6	22.0	22.2	22.2	22.2	22.1	22.3	22.1	22.4	22.7	22.7	23.7	**24.0**	23.4	22.3	22.1	21.8	22.5	23.1	23.6	22.8	21.9	22.2	22.4	22.2	21.8	**24.0**	22.5
Apr 7	22.2	22.4	22.2	22.1	22.1	22.3	22.2	22.1	22.0	21.7	22.7	23.6	23.1	23.0	22.5	22.5	22.7	22.9	23.3	23.3	23.1	22.8	22.2	21.6	21.6	23.6	22.5
Apr 8	21.8	21.9	21.9	22.0	22.0	22.0	22.1	21.8	21.8	22.2	23.5	22.9	22.4	22.5	22.5	22.1	22.0	21.5	21.3	21.7	21.6	21.9	22.0	21.9	21.3	23.5	22.1
Apr 9	22.2	22.0	22.1	22.1	21.9	22.2	22.1	21.9	22.2	21.9	22.1	21.9	21.9	21.9	21.9	21.5	21.4	21.6	21.7	22.0	22.3	22.3	22.4	22.5	21.4	22.5	22.0
Apr 10	22.5	22.4	22.4	22.5	22.5	22.6	22.5	22.5	22.5	22.0	21.9	21.7	21.4	21.0	21.1	21.1	21.3	21.3	21.8	22.0	22.6	22.5	22.5	22.5	21.0	22.6	22.0
Apr 11	22.7	22.7	22.5	22.7	22.6	22.8	22.7	22.7	22.5	22.5	22.2	21.8	21.7	21.7	21.6	21.7	22.0	22.2	22.3	22.5	22.6	22.5	22.6	22.5	21.6	22.8	22.3
Apr 12	22.5	22.6	22.5	22.6	22.6	22.6	22.7	22.6	22.6	22.5	22.4	22.2	22.1	21.7	21.4	21.4	21.5	21.7	22.2	22.3	22.5	22.6	22.7	22.5	21.4	22.7	22.3
Apr 13	22.8	22.6	22.8	22.8	22.7	22.9	22.9	22.9	22.8	22.3	21.9	21.3	21.3	**20.8**	21.0	21.5	21.8	21.3	21.5	22.0	22.4	22.5	22.7	22.6	**20.8**	22.9	22.2
Apr 14	22.7	22.7	22.7	22.6	22.8	22.7	22.8	22.9	22.8	22.3	21.9	22.0	22.3	22.9	23.1	23.1	23.2	23.4	22.9	21.8	22.3	22.4	22.6	22.6	21.8	23.4	22.6
Apr 15	22.6	22.7	22.6	22.6	22.5	22.7	22.7	22.5	22.4	22.1	21.9	22.0	22.1	22.9	22.5	22.0	21.7	21.8	21.9	22.0	22.1	22.5	22.6	22.6	21.7	22.9	22.3
Apr 16	22.6	22.4	22.4	22.5	22.3	22.4	22.4	22.4	22.0	21.8	22.3	22.1	22.2	22.4	23.0	23.0	22.5	21.8	21.6	22.0	22.1	22.4	22.3	22.4	21.6	23.0	22.3
Apr 17	22.4	22.3	22.5	22.5	22.4	22.5	22.5	22.5	22.2	21.6	21.8	22.5	22.8	23.2	23.2	23.1	22.6	22.0	21.4	21.9	22.3	22.4	22.4	22.5	21.4	23.2	22.4
Apr 18	22.5	22.5	22.4	22.5	22.5	22.4	22.5	22.6	22.4	22.2	22.0	21.5	21.5	21.4	21.6	21.7	22.0	21.7	21.6	22.0	22.2	22.4	22.2	22.4	21.4	22.6	22.1
Apr 19	22.3	22.4	22.5	22.3	22.4	22.5	22.4	22.3	22.4	22.3	22.3	22.1	22.0	22.0	21.9	21.8	21.9	22.0	22.0	22.0	22.2	22.3	22.3	22.4	21.8	22.5	22.2
Apr 20	22.2	22.3	22.4	22.2	22.5	22.2	22.4	22.2	22.1	22.2	23.0	23.4	23.5	23.3	23.2	23.1	23.3	23.5	23.1	22.4	22.0	22.2	22.1	22.1	22.0	23.5	22.6
Apr 21	22.1	22.3	22.2	22.1	22.3	22.1	22.1	22.1	21.9	22.0	23.7	23.2	23.1	22.8	22.8	22.8	23.0	23.1	23.3	23.6	22.5	22.0	22.1	22.5	21.9	23.7	22.6
Apr 22	22.5	22.4	22.6	22.6	22.5	22.5	22.5	22.5	22.7	23.9	23.4	23.1	22.7	22.5	22.5	22.5	22.4	23.1	23.2	23.5	23.1	21.9	22.4	22.3	21.9	23.9	**22.7**
Apr 23	22.2	22.3	22.2	22.1	22.2	22.1	22.1	22.3	23.2	23.8	23.1	22.8	22.6	22.3	22.2	22.2	22.3	22.7	22.6	23.7	23.3	22.1	22.0	22.1	22.0	23.8	22.5
Apr 24	22.0	22.0	22.0	22.0	22.2	22.1	22.2	22.0	22.1	23.6	23.3	22.7	22.5	22.3	22.4	22.6	22.4	22.5	23.0	23.4	23.9	23.8	23.6	23.6	22.0	23.9	22.7
Apr 25	23.5	23.2	22.6	22.2	21.9	21.8	21.8	21.5	22.5	23.8	23.2	22.8	22.5	22.3	22.3	22.4	22.2	22.7	23.2	23.7	23.7	23.2	22.6	21.8	21.5	23.8	22.6
Apr 26	21.9	22.0	22.1	22.4	22.3	22.1	22.2	21.8	21.7	21.6	22.0	22.9	23.6	23.6	23.7	23.4	23.5	23.3	22.7	22.0	21.5	21.6	21.9	21.8	21.5	23.7	22.4
Apr 27	21.8	21.9	22.0	22.2	22.0	21.8	22.0	21.7	21.8	21.9	21.7	21.9	21.7	21.9	21.6	21.9	21.7	21.9	21.7	21.9	22.0	22.1	22.1	22.0	21.6	22.2	21.9
Apr 28	22.0	22.1	22.1	22.1	22.2	22.1	22.0	22.3	22.1	22.0	21.8	21.9	21.6	21.9	21.9	21.8	21.8	21.9	22.0	22.0	22.0	22.0	22.2	22.2	21.6	22.3	22.0
Apr 29	22.2	22.1	22.2	22.3	22.1	22.1	22.3	22.2	22.1	22.1	21.9	21.6	21.7	21.3	21.5	21.6	21.5	21.6	21.4	21.9	21.9	22.0	21.9	21.9	21.3	22.3	21.9
Apr 30	22.1	22.1	22.1	22.0	22.1	22.1	22.1	22.1	21.8	21.8	22.2	22.8	23.2	23.5	23.1	22.6	22.4	22.7	23.5	23.0	22.4	21.7	21.9	22.2	21.7	23.5	22.4
Diurnal Maximum	23.5	23.2	22.8	22.8	22.8	22.9	22.9	22.9	23.2	23.9	23.7	24.0	23.6	23.6	23.7	23.5	23.5	23.5	23.6	23.7	23.9	23.8	23.6	23.6			
Diurnal Average	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.4	22.5	22.4	22.4	22.3	22.3	22.3	22.4	22.4	22.5	22.4	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 - 842b Station



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - April 2022

Summary of Hourly Averages

PRECIPITATION in mm

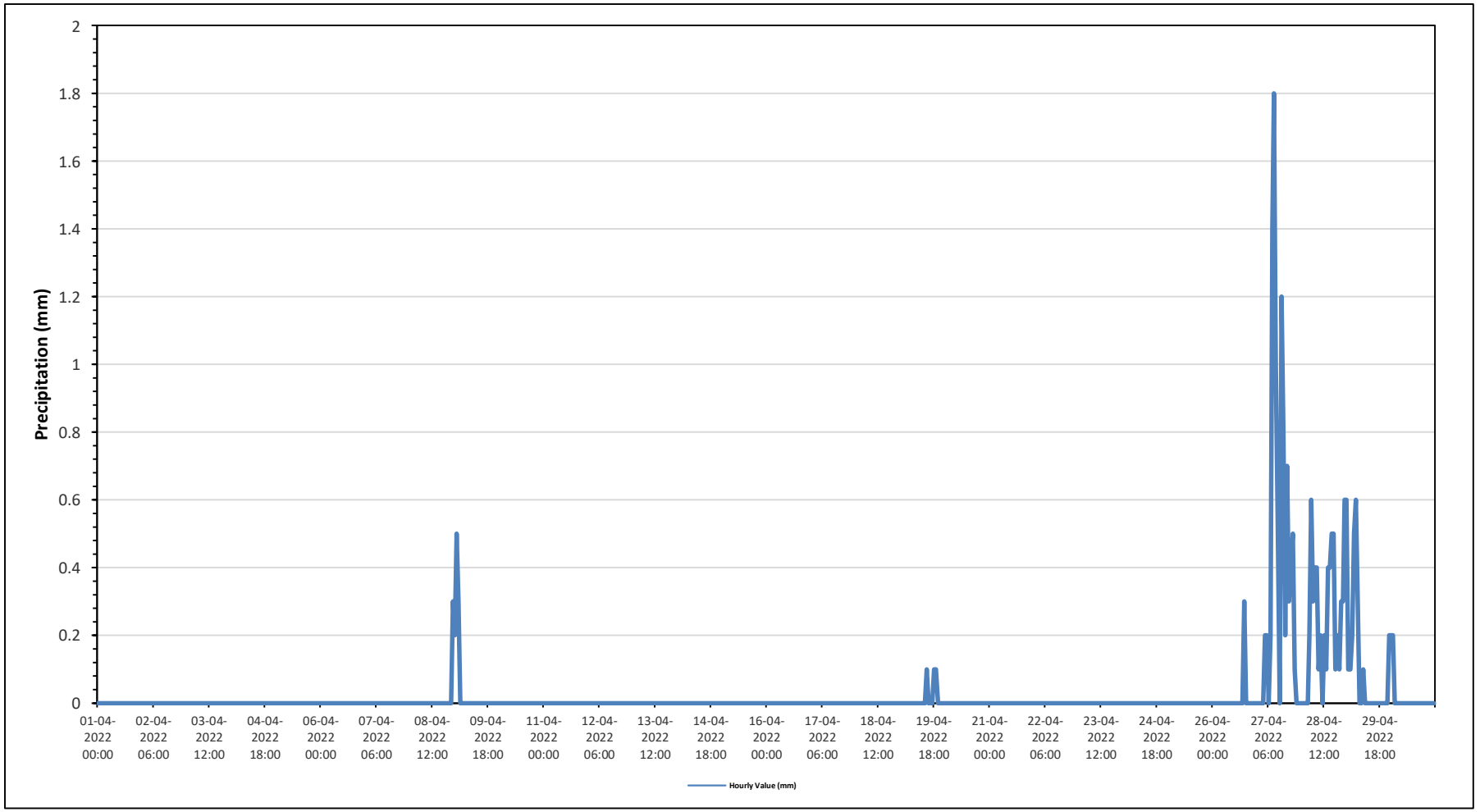
Maximum Hourly Value:	1.8	mm	on April 27 at hour 9	Hours in Service:	720
Maximum Daily Value:	9.5	mm	on April 27	Hours of Data:	720
Minimum Hourly Value:	0.0	mm	on April 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	mm	on April 1	Hours of Calibration:	0
Monthly Total:	20.4	mm		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Total
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0.0	0.3	0.3
Apr 9	0.2	0.5	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5	1.0
Apr 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0.1	0.1	0	0	0	0	0.0	0.1	0.3
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	0.0	0.3	0.3
Apr 27	0	0	0	0	0.2	0.2	0	0.2	1.4	**1.8**	1	0.5	0	1.2	0.8	0.2	0.7	0.3	0.4	0.5	0.1	0	0	0	0.0	**1.8**	**9.5**
Apr 28	0	0	0	0	0.2	0.6	0.3	0.4	0.4	0.1	0.2	0	0.2	0.1	0.4	0.4	0.5	0.5	0.1	0.2	0.1	0.3	0.3	0.6	0.0	0.6	5.9
Apr 29	0.6	0.1	0.1	0.2	0.5	0.6	0.3	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0	0.6	2.7
Apr 30	0.2	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	0.4
Diurnal Maximum	0.6	0.5	0.3	0.2	0.5	0.6	0.3	0.4	1.4	1.8	1.0	0.5	0.2	1.2	0.8	0.4	0.7	0.5	0.4	0.5	0.1	0.3	0.3	0.6			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

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

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

Timeseries Chart of Hourly Average for Precipitation - 842b Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - April 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

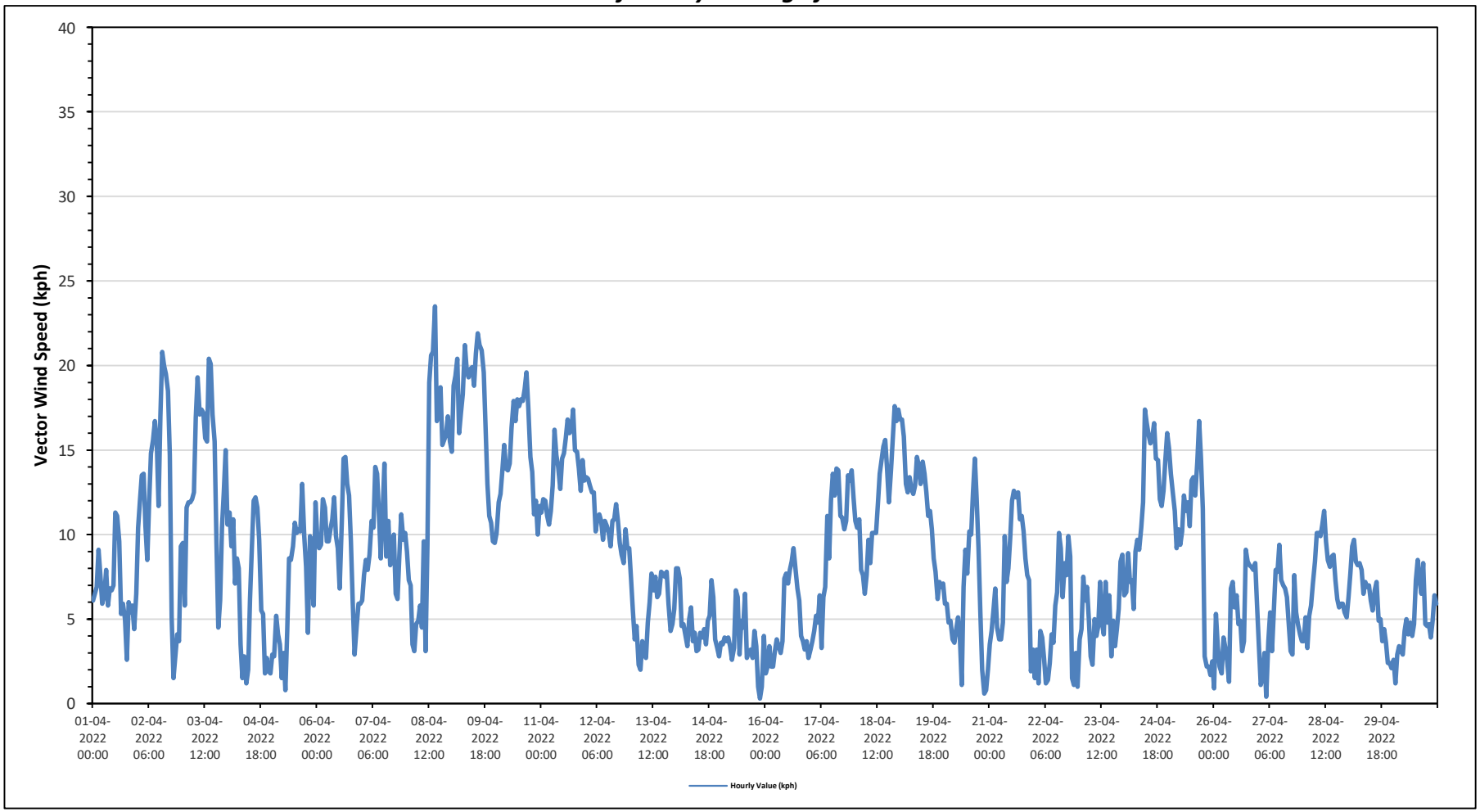
Maximum Hourly Value:	23.5	kph	on April 8 at hour 15	Hours in Service:	720
Maximum Daily Value:	16.9	kph	on April 9	Hours of Data:	720
Minimum Hourly Value:	0.3	kph	on April 15 at hour 21	Hours of Missing Data:	0
Minimum Daily Value:	1.9	kph	on April 15	Hours of Calibration:	0
Monthly Average:	1.6	kph		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
Apr 1	6.1	6.5	6.9	9.1	7.6	5.9	6.4	7.9	5.8	6.8	6.7	7.0	11.3	11.1	9.6	5.3	5.9	5.0	2.6	6.0	5.4	5.8	4.4	6.5	2.6	11.3	3.7
Apr 2	10.4	12.0	13.5	13.6	10.5	8.5	11.9	14.8	15.6	16.7	15.6	11.7	17.0	20.8	20.0	19.5	18.5	14.7	5.1	1.5	2.8	4.1	3.7	9.3	1.5	20.8	8.8
Apr 3	9.5	5.8	11.6	11.9	11.9	12.1	12.5	16.9	19.3	17.1	17.4	17.2	15.7	15.5	20.4	20.1	17.1	15.5	9.5	4.5	6.1	10.4	12.5	15.0	4.5	20.4	12.1
Apr 4	10.6	11.3	9.3	10.9	7.1	8.6	8.0	3.5	1.5	2.8	1.2	2.0	6.2	9.2	12.0	12.2	11.6	9.7	5.5	5.3	1.8	2.7	1.9	1.8	1.2	12.2	2.6
Apr 5	2.9	2.8	5.2	4.1	3.5	1.5	3.0	0.8	4.3	8.6	8.5	9.3	10.7	10.1	10.3	10.2	13.0	9.9	8.1	4.2	9.9	7.2	5.8	11.9	0.8	13.0	5.9
Apr 6	9.7	9.2	9.4	12.1	11.6	9.6	9.6	10.3	10.9	12.2	9.9	9.2	6.8	10.6	14.5	14.6	13.0	12.3	9.6	6.0	2.9	4.6	5.9	5.9	2.9	14.6	8.2
Apr 7	6.1	7.6	8.5	7.9	8.8	10.8	10.4	14.0	13.6	11.2	8.6	11.3	14.2	8.7	10.8	8.2	9.3	10.0	6.5	6.2	8.8	11.2	9.7	10.1	6.1	14.2	8.4
Apr 8	9.0	7.3	7.0	3.5	3.1	4.7	4.9	5.8	4.5	9.6	3.1	9.3	19.0	20.6	20.8	**23.5**	16.7	18.0	18.7	15.3	15.6	15.9	17.0	15.5	3.1	**23.5**	7.5
Apr 9	14.9	18.8	19.4	20.4	16.0	17.2	18.3	21.2	19.7	19.3	19.8	19.9	18.8	20.7	21.9	21.2	20.9	19.6	16.3	13.0	11.1	10.7	9.6	9.5	9.5	21.9	**16.9**
Apr 10	10.1	11.9	12.4	13.8	15.3	13.9	13.8	14.2	16.3	17.9	16.7	18.0	17.6	18.0	17.9	18.6	19.6	17.5	14.6	13.7	11.2	12.0	10.0	11.7	10.0	19.6	14.4
Apr 11	11.3	12.1	12.0	11.1	10.6	11.4	12.9	16.2	14.7	14.0	12.7	14.5	14.8	15.7	16.8	16.0	16.2	17.4	15.0	14.9	13.9	12.6	14.4	13.2	10.6	17.4	13.7
Apr 12	13.4	13.3	12.9	12.5	12.5	10.2	11.0	11.2	10.8	9.7	10.8	10.5	10.1	9.3	10.8	10.9	11.8	10.8	9.5	8.8	8.3	10.3	9.2	9.2	8.3	13.4	10.7
Apr 13	7.4	5.5	3.8	4.6	2.3	2.0	3.7	2.9	2.7	4.8	6.0	7.7	6.7	7.5	6.3	6.5	7.8	7.7	7.5	7.8	5.9	4.3	4.7	5.6	2.0	7.8	4.9
Apr 14	8.0	8.0	7.4	4.6	4.7	4.1	3.4	5.0	5.7	3.7	4.2	3.1	3.2	4.2	3.9	4.4	3.5	4.9	5.2	7.3	6.3	3.8	3.3	2.8	2.8	8.0	4.4
Apr 15	3.6	3.5	3.9	3.7	3.9	3.4	2.6	3.3	6.7	6.3	2.9	4.9	4.5	6.5	2.7	3.1	3.2	2.7	4.3	3.4	1.0	**0.3**	1.0	4.0	**0.3**	6.7	**1.9**
Apr 16	1.8	2.2	3.4	2.2	2.2	3.1	3.8	3.4	3.0	3.7	7.4	7.7	7.1	7.9	8.4	9.2	7.9	6.8	6.1	4.0	3.7	3.2	3.7	2.7	1.8	9.2	4.4
Apr 17	3.2	3.7	4.3	5.2	4.8	6.4	3.3	6.3	6.9	11.1	8.6	12.0	13.6	12.3	13.9	13.8	11.1	11.0	10.3	10.8	13.5	13.2	13.8	12.2	3.2	13.9	8.1
Apr 18	10.8	10.4	10.9	7.9	7.6	6.5	7.6	9.7	8.3	10.1	10.1	10.1	11.8	13.6	14.4	15.2	15.6	13.9	11.9	13.8	15.7	17.6	16.7	17.4	6.5	17.6	11.3
Apr 19	16.8	16.8	15.8	13.0	12.5	13.4	12.7	12.4	12.9	14.6	14.1	13.0	14.3	13.6	12.5	11.1	11.4	10.3	8.6	7.8	6.2	7.2	6.9	7.1	6.2	16.8	11.4
Apr 20	5.9	5.9	4.8	4.9	3.8	3.6	4.4	5.1	3.9	1.1	6.9	9.1	7.7	10.2	10.0	12.5	14.5	12.1	9.2	5.4	2.0	0.6	0.8	2.0	0.6	14.5	2.9
Apr 21	3.5	4.3	5.5	6.8	4.5	3.8	3.8	4.8	9.9	7.2	8.0	9.8	12.0	12.6	12.2	12.5	10.9	11.1	10.2	8.6	7.6	7.3	1.9	3.2	1.9	12.6	4.4
Apr 22	1.5	3.2	1.2	4.3	3.9	2.7	1.2	1.4	2.4	4.1	3.6	5.8	6.6	10.1	9.2	6.3	8.3	7.6	9.9	8.7	1.5	1.1	3.0	1.0	1.0	10.1	3.5
Apr 23	3.8	4.4	7.5	6.1	6.9	5.0	2.8	2.3	5.0	4.0	4.6	7.2	4.8	4.1	7.2	4.8	6.4	2.8	4.9	3.4	4.4	5.6	8.4	8.8	2.3	8.8	2.4
Apr 24	6.4	6.6	8.9	7.2	7.3	5.6	9.0	9.7	9.1	10.4	11.9	17.4	16.6	15.9	15.4	15.7	16.6	14.5	14.4	12.1	11.7	12.6	14.4	16.0	5.6	17.4	11.3
Apr 25	15.1	13.6	12.4	11.4	9.2	10.3	9.4	10.2	12.3	11.4	11.9	10.5	13.2	13.4	12.3	14.3	16.7	14.5	11.5	2.8	2.2	2.2	1.7	2.5	1.7	16.7	9.6
Apr 26	0.9	5.3	3.4	2.2	1.8	3.9	3.3	2.5	1.3	6.8	7.2	5.7	6.4	4.7	4.9	3.1	3.7	9.1	8.4	8.2	8.1	7.9	8.3	5.8	0.9	9.1	3.4
Apr 27	3.4	1.1	1.6	3.0	0.4	3.7	5.4	3.1	5.5	7.9	7.8	9.4	7.3	7.0	6.8	6.3	4.7	3.1	2.9	7.6	5.4	4.7	4.1	3.7	0.4	9.4	2.7
Apr 28	3.7	5.1	3.3	5.2	5.8	7.1	8.4	10.1	10.1	9.9	10.6	11.4	9.6	8.5	8.1	8.7	8.8	7.3	6.2	5.7	5.9	5.9	5.4	5.1	3.3	11.4	6.2
Apr 29	6.3	7.7	9.3	9.7	8.4	8.2	8.3	7.9	6.5	7.2	6.9	7.0	6.1	5.5	6.7	7.2	4.9	5.0	3.7	4.4	3.6	2.4	2.4	2.1	2.1	9.7	6.1
Apr 30	2.6	1.2	2.9	3.4	3.1	2.9	4.3	5.0	4.1	4.8	4.0	4.7	7.3	8.5	7.3	6.5	8.3	4.7	4.6	4.7	3.9	4.9	6.4	5.9	1.2	8.5	4.5
Diurnal Maximum	17	19	19	20	16	17	18	21	20	19	20	20	19	21	22	24	21	20	19	15	16	18	17	17			
Diurnal Average	7.3	7.6	7.9	7.9	7.1	7.0	7.3	8.1	8.4	9.2	8.9	9.9	10.7	11.2	11.6	11.4	11.3	10.3	8.7	7.5	6.9	7.1	7.0	7.6			

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

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

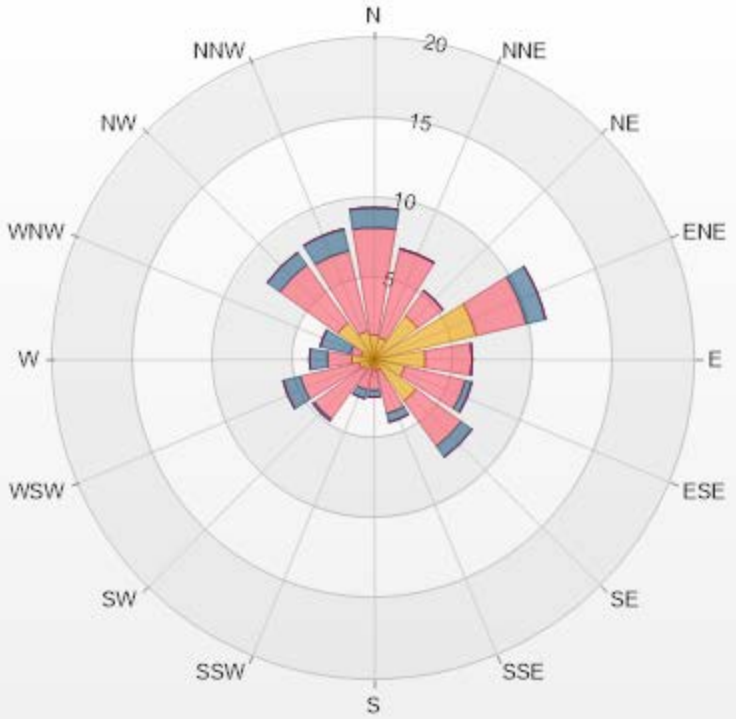
Timeseries Chart of Hourly Average for VWS - 842b Station



Wind: PRAMP 842b Monitor: WDS [KPH] Monthly: 04-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 3.89% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.53	6.67	1.25	0	0	9.45
NNE	1.39	5.69	0	0	0	7.08
NE	3.33	1.94	0	0	0	5.27
ENE	6.53	3.19	1.25	0	0	10.97
E	3.19	2.92	0	0	0	6.11
ESE	1.94	3.89	0.42	0	0	6.25
SE	3.19	3.47	0.83	0	0	7.49
SSE	0.69	2.78	0.56	0	0	4.03
S	0.69	1.25	0.42	0	0	2.36
SSW	0.42	1.53	0.56	0	0	2.51
SW	0.83	3.75	0.14	0	0	4.72
WSW	0.97	3.75	1.11	0	0	5.83
W	1.39	1.53	1.11	0	0	4.03
WNW	0.83	0.69	1.94	0	0	3.46
NW	2.78	4.44	0.97	0	0	8.19
NNW	1.81	5.14	1.39	0	0	8.34
Summary	31.51	52.63	11.95	0	0	96.09

PRAMP 842b 01-04-2022 00:00 - 30-04-2022 23:00 Calm: 3.89% Calm Wind Avg Speed: 1.22(KPH)



% Icon Classes (KPH)	32 1.8-6.0	53 6.0-15.0	12 15.0-29.0	0 29.0-39.0	0 >39.0

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PEACE RIVER AREA MONITORING PROGRAM

842b Station - April 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

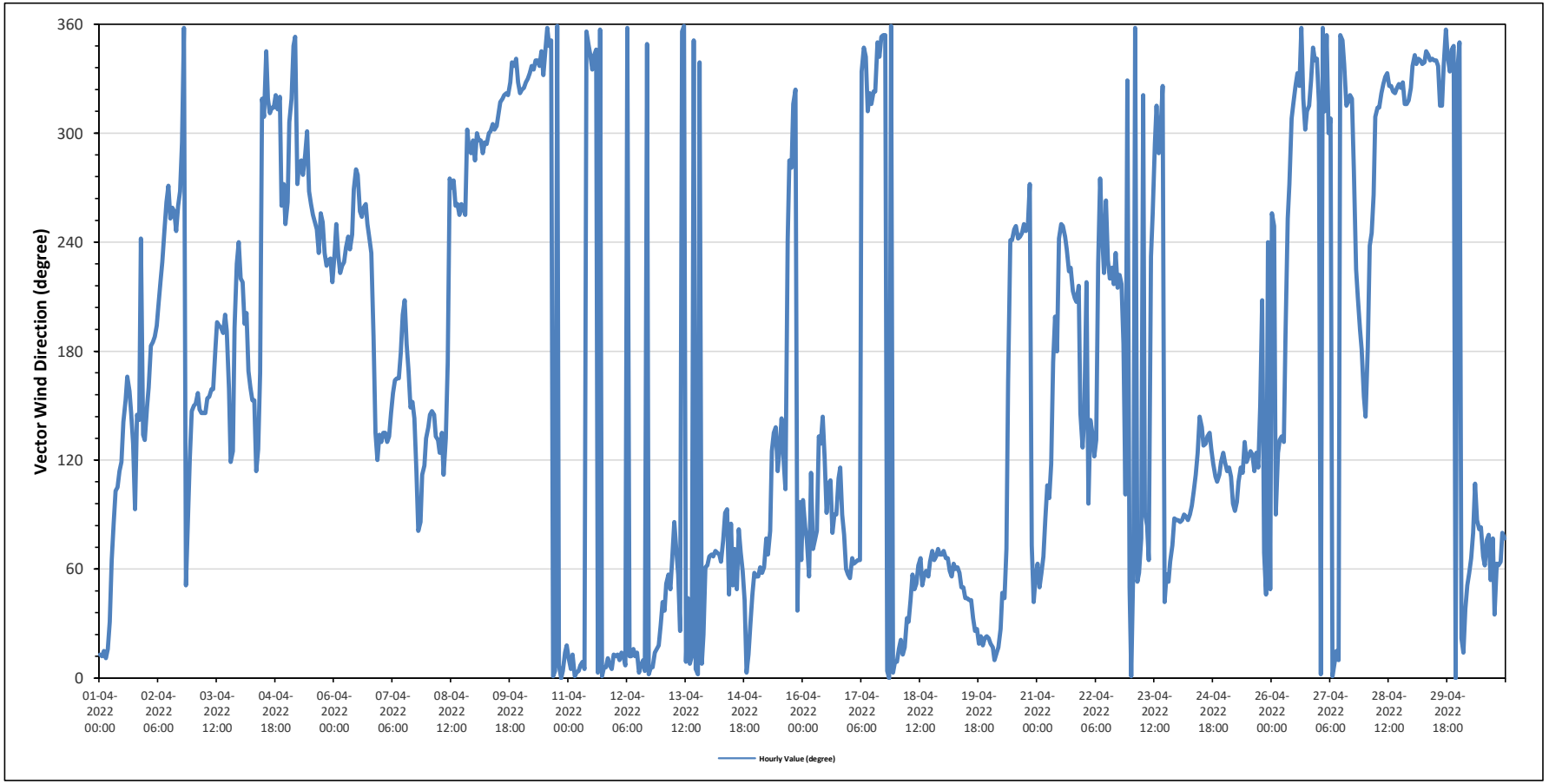
Monthly Average:	0 (N)	degree	
Hours in Service:	720		
Hours of Data:	720		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

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
Apr 1	NNE	NNE	NNE	NNE	NNE	NNE	ENE	E	ESE	ESE	ESE	ESE	SE	SSE	SSE	SSE	SE	SE	E	SE	SE	WSW	SE	SE	107	ESE
Apr 2	SSE	SSE	S	S	S	SSW	SSW	SW	SW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	W	WNW	N	NE	E	ESE	SE	230	SW
Apr 3	SSE	SSE	SSE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	S	SSW	SSW	S	S	SSW	S	SSE	ESE	SE	S	SW	WSW	174	S
Apr 4	SW	SW	SSW	SSW	SSE	SSE	SSE	SSE	ESE	SE	SSE	NW	NW	NNW	NW	NW	NW	NW	NW	NW	NW	WSW	W	WSW	260	WSW
Apr 5	W	NW	NW	NNW	N	W	W	WNW	W	WNW	WNW	W	W	WSW	WSW	WSW	SW	WSW	WSW	SW	SW	SW	SW	SW	258	WSW
Apr 6	SW	WSW	SW	SW	SW	SW	SW	WSW	SW	WSW	W	W	W	WSW	WSW	WSW	W	WSW	WSW	SW	S	SE	ESE	SE	242	WSW
Apr 7	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	S	SSW	SSW	S	SSE	SSE	SSE	SE	ESE	E	E	ESE	ESE	SE	149	SSE
Apr 8	SE	SE	SE	SE	SE	SE	ESE	SE	ESE	SE	S	W	W	W	WSW	W	WSW	W	WSW	WSW	WNW	WNW	WNW	WNW	258	WSW
Apr 9	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	310	NW
Apr 10	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	N	N	N	N	N	N	N	NNE	NNE	347	NNW
Apr 11	NNE	N	NNE	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	N	N	NNE	0	N
Apr 12	NNE	NNE	N	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NNE	N	N	N	N	NNW	N	N	N	NNE	NNE	NNE	NNE	10	N
Apr 13	NE	NE	NE	ENE	NE	ENE	E	ENE	ENE	NNE	N	N	N	NE	N	NNE	N	N	N	NNW	N	NNE	ENE	ENE	23	NNE
Apr 14	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	NE	E	NE	ENE	NE	E	ENE	ENE	NE	N	NNE	NNE	NE	ENE	59	ENE
Apr 15	NE	NE	ENE	ENE	ENE	ENE	ENE	E	SE	SE	SE	ESE	SE	SE	ESE	ESE	WSW	WNW	W	NW	NW	NE	E	ENE	97	E
Apr 16	E	E	ENE	NE	ESE	ENE	ENE	E	SE	SE	SE	ESE	E	ESE	ESE	E	E	E	ESE	ESE	E	ENE	ENE	ENE	98	E
Apr 17	NE	ENE	ENE	ENE	ENE	ENE	NNW	NNW	NNW	NW	NW	NW	NW	NW	N	NNW	N	N	N	N	N	N	N	N	353	N
Apr 18	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	ENE	NE	NE	ENE	ENE	NE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	53	NE
Apr 19	ENE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	48	NE
Apr 20	NNE	NNE	N	NNE	NNE	NNE	NE	NE	ENE	SSE	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	ENE	NE	NE	266	W
Apr 21	ENE	NE	ENE	ENE	E	ESE	E	ESE	S	SSW	S	WSW	WSW	WSW	WSW	SW	SW	SW	SSW	SSW	SSW	SW	SE	SE	208	SSW
Apr 22	SE	SW	E	SE	SE	ESE	SE	SW	W	WSW	SW	W	SW	SW	SW	SW	SW	SSW	SW	SW	S	E	NNW	NE	218	SW
Apr 23	N	ENE	N	NE	ENE	ENE	NW	E	E	ENE	SW	WSW	WNW	NW	WNW	WNW	NW	NE	ENE	NE	ENE	ENE	E	E	33	NNE
Apr 24	E	E	E	E	E	E	E	E	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	117	ESE
Apr 25	ESE	ESE	ESE	ESE	E	E	E	ESE	ESE	ESE	SE	ESE	ESE	SE	ESE	ESE	ESE	ESE	SSE	SSW	ENE	NE	WSW	NE	116	ESE
Apr 26	WSW	WSW	E	ESE	SE	SE	SE	S	WSW	W	NW	NW	NW	NNW	NW	N	NW	WNW	NW	NW	NNW	NNW	NNW	NNW	318	NW
Apr 27	NW	N	N	NW	N	WNW	NW	N	N	NNE	N	N	N	NNW	NW	NW	NW	NW	W	SW	SSW	S	S	SSE	325	NW
Apr 28	SE	S	SW	WSW	W	NW	NW	NW	NW	NW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	NW	NW	317	NW
Apr 29	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	N	NNW	NNW	NNW	NNW	N	NNW	339	NNW
Apr 30	N	NNE	NNE	NE	NE	ENE	ENE	E	ESE	E	E	E	ENE	ENE	ENE	ENE	NE	ENE	NE	ENE	ENE	ENE	E	ENE	66	ENE

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 - April 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	23.5	kph	on April 8 at hour 15	Hours in Service:	720
Maximum Daily Value:	16.9	kph	on April 9	Hours of Data:	720
Minimum Hourly Value:	0.3	kph	on April 15 at hour 21	Hours of Missing Data:	0
Minimum Daily Value:	1.9	kph	on April 15	Hours of Calibration:	0
Monthly Average:	1.6	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 0 (N) 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			
Apr 1	6.1	6.5	6.9	9.1	7.6	5.9	6.4	7.9	5.8	6.8	6.7	7.0	11.3	11.1	9.6	5.3	5.9	5.0	2.6	6.0	5.4	5.8	4.4	6.5	2.6	11.3	3.7
	NNE	NNE	NNE	NNE	NNE	NNE	ENE	E	ESE	ESE	ESE	ESE	SE	SSE	SSE	SSE	SE	SE	E	SE	SE	WSW	SE	SE			
Apr 2	10.4	12.0	13.5	13.6	10.5	8.5	11.9	14.8	15.6	16.7	15.6	11.7	17.0	20.8	20.0	19.5	18.5	14.7	5.1	1.5	2.8	4.1	3.7	9.3	1.5	20.8	8.8
	SSE	SSE	S	S	S	SSW	SSW	SW	SW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	W	WNW	N	NE	E	ESE	SE			
Apr 3	9.5	5.8	11.6	11.9	11.9	12.1	12.5	16.9	19.3	17.1	17.4	17.2	15.7	15.5	20.4	20.1	17.1	15.5	9.5	4.5	6.1	10.4	12.5	15.0	4.5	20.4	12.1
	SSE	SSE	SSE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	S	SSW	SSW	S	S	SSW	S	SSE	ESE	SE	S	SW	WSW			
Apr 4	10.6	11.3	9.3	10.9	7.1	8.6	8.0	3.5	1.5	2.8	1.2	2.0	6.2	9.2	12.0	12.2	11.6	9.7	5.5	5.3	1.8	2.7	1.9	1.8	1.2	12.2	2.6
	SW	SW	SSW	SSW	SSE	SSE	SSE	SSE	ESE	SE	SSE	NW	NW	NNW	NW	NW	NW	NW	NW	NW	NW	WSW	W	WSW			
Apr 5	2.9	2.8	5.2	4.1	3.5	1.5	3.0	0.8	4.3	8.6	8.5	9.3	10.7	10.1	10.3	10.2	13.0	9.9	8.1	4.2	9.9	7.2	5.8	11.9	0.8	13.0	5.9
	W	NW	NW	NNW	N	W	W	WNW	W	WNW	WNW	W	W	WSW	WSW	WSW	SW	WSW	WSW	SW	SW	SW	SW	SW			
Apr 6	9.7	9.2	9.4	12.1	11.6	9.6	9.6	10.3	10.9	12.2	9.9	9.2	6.8	10.6	14.5	14.6	13.0	12.3	9.6	6.0	2.9	4.6	5.9	5.9	2.9	14.6	8.2
	SW	WSW	SW	SW	SW	SW	SW	WSW	SW	WSW	W	W	W	WSW	WSW	WSW	W	WSW	WSW	SW	S	SE	ESE	SE			
Apr 7	6.1	7.6	8.5	7.9	8.8	10.8	10.4	14.0	13.6	11.2	8.6	11.3	14.2	8.7	10.8	8.2	9.3	10.0	6.5	6.2	8.8	11.2	9.7	10.1	6.1	14.2	8.4
	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	S	SSW	SSW	S	SSE	SSE	SSE	SE	ESE	E	E	ESE	ESE	SE			
Apr 8	9.0	7.3	7.0	3.5	3.1	4.7	4.9	5.8	4.5	9.6	3.1	9.3	19.0	20.6	20.8	**23.5**	16.7	18.0	18.7	15.3	15.6	15.9	17.0	15.5	3.1	**23.5**	7.5
	SE	SE	SE	SE	SE	SE	ESE	SE	ESE	SE	S	W	W	W	WSW	W	WSW	W	WSW	WSW	WNW	WNW	WNW	WNW			
Apr 9	14.9	18.8	19.4	20.4	16.0	17.2	18.3	21.2	19.7	19.3	19.8	19.9	18.8	20.7	21.9	21.2	20.9	19.6	16.3	13.0	11.1	10.7	9.6	9.5	9.5	21.9	**16.9**
	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW			
Apr 10	10.1	11.9	12.4	13.8	15.3	13.9	13.8	14.2	16.3	17.9	16.7	18.0	17.6	18.0	17.9	18.6	19.6	17.5	14.6	13.7	11.2	12.0	10.0	11.7	10.0	19.6	14.4
	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	N	N	N	N	N	N	N	NNE	NNE			
Apr 11	11.3	12.1	12.0	11.1	10.6	11.4	12.9	16.2	14.7	14.0	12.7	14.5	14.8	15.7	16.8	16.0	16.2	17.4	15.0	14.9	13.9	12.6	14.4	13.2	10.6	17.4	13.7
	NNE	N	NNE	N	N	N	N	N	N	N	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	N	N	NNE			
Apr 12	13.4	13.3	12.9	12.5	12.5	10.2	11.0	11.2	10.8	9.7	10.8	10.5	10.1	9.3	10.8	10.9	11.8	10.8	9.5	8.8	8.3	10.3	9.2	9.2	8.3	13.4	10.7
	NNE	NNE	N	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NNE	N	N	N	N	NNW	N	N	N	NNE	NNE	NNE	NNE			
Apr 13	7.4	5.5	3.8	4.6	2.3	2.0	3.7	2.9	2.7	4.8	6.0	7.7	6.7	7.5	6.3	6.5	7.8	7.7	7.5	7.8	5.9	4.3	4.7	5.6	2.0	7.8	4.9
	NE	NE	NE	ENE	NE	ENE	E	ENE	ENE	NNE	N	N	N	NE	N	NNE	N	N	N	NNW	N	NNE	ENE	ENE			
Apr 14	8.0	8.0	7.4	4.6	4.7	4.1	3.4	5.0	5.7	3.7	4.2	3.1	3.2	4.2	3.9	4.4	3.5	4.9	5.2	7.3	6.3	3.8	3.3	2.8	2.8	8.0	4.4
	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	NE	E	NE	ENE	NE	E	ENE	ENE	NE	N	NNE	NNE	NE	ENE			
Apr 15	3.6	3.5	3.9	3.7	3.9	3.4	2.6	3.3	6.7	6.3	2.9	4.9	4.5	6.5	2.7	3.1	3.2	2.7	4.3	3.4	1.0	**0.3**	1.0	4.0	**0.3**	6.7	**1.9**
	NE	NE	ENE	ENE	ENE	ENE	ENE	E	SE	SE	SE	ESE	SE	SE	ESE	ESE	WSW	WNW	W	NW	NW	NE	E	ENE			
Apr 16	1.8	2.2	3.4	2.2	2.2	3.1	3.8	3.4	3.0	3.7	7.4	7.7	7.1	7.9	8.4	9.2	7.9	6.8	6.1	4.0	3.7	3.2	3.7	2.7	1.8	9.2	4.4
	E	E	ENE	NE	ESE	ENE	ENE	E	SE	SE	SE	ESE	E	ESE	ESE	E	E	E	ESE	ESE	E	ENE	ENE	ENE			
Apr 17	3.2	3.7	4.3	5.2	4.8	6.4	3.3	6.3	6.9	11.1	8.6	12.0	13.6	12.3	13.9	13.8	11.1	11.0	10.3	10.8	13.5	13.2	13.8	12.2	3.2	13.9	8.1
	NE	ENE	ENE	ENE	ENE	ENE	NNW	NNW	NNW	NW	NW	NW	NW	NW	N	NNW	N	N	N	N	N	N	N	N			
Apr 18	10.8	10.4	10.9	7.9	7.6	6.5	7.6	9.7	8.3	10.1	10.1	10.1	11.8	13.6	14.4	15.2	15.6	13.9	11.9	13.8	15.7	17.6	16.7	17.4	6.5	17.6	11.3
	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	ENE	NE	NE	ENE	ENE	NE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE			
Apr 19	16.8	16.8	15.8	13.0	12.5	13.4	12.7	12.4	12.9	14.6	14.1	13.0	14.3	13.6	12.5	11.1	11.4	10.3	8.6	7.8	6.2	7.2	6.9	7.1	6.2	16.8	11.4
	ENE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE			
Apr 20	5.9	5.9	4.8	4.9	3.8	3.6	4.4	5.1	3.9	1.1	6.9	9.1	7.7	10.2	10.0	12.5	14.5	12.1	9.2	5.4	2.0	0.6	0.8	2.0	0.6	14.5	2.9
	NNE	NNE	N	NNE	NNE	NNE	NE	NE	ENE	SSE	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	ENE	NE	NE			

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PEACE RIVER AREA MONITORING PROGRAM

842b Station - April 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	23.5	kph	on April 8 at hour 15	Hours in Service:	720
Maximum Daily Value:	16.9	kph	on April 9	Hours of Data:	720
Minimum Hourly Value:	0.3	kph	on April 15 at hour 21	Hours of Missing Data:	0
Minimum Daily Value:	1.9	kph	on April 15	Hours of Calibration:	0
Monthly Average:	1.6	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 0 (N) 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			
Apr 21	3.5	4.3	5.5	6.8	4.5	3.8	3.8	4.8	9.9	7.2	8.0	9.8	12.0	12.6	12.2	12.5	10.9	11.1	10.2	8.6	7.6	7.3	1.9	3.2	1.9	12.6	4.4
	ENE	NE	ENE	ENE	E	ESE	E	ESE	S	SSW	S	WSW	WSW	WSW	WSW	SW	SW	SW	SSW	SSW	SSW	SW	SE	SE			
Apr 22	1.5	3.2	1.2	4.3	3.9	2.7	1.2	1.4	2.4	4.1	3.6	5.8	6.6	10.1	9.2	6.3	8.3	7.6	9.9	8.7	1.5	1.1	3.0	1.0	1.0	10.1	3.5
	SE	SW	E	SE	SE	ESE	SE	SW	W	WSW	SW	W	SW	SW	SW	SW	SW	SSW	SW	SW	S	E	NNW	NE			
Apr 23	3.8	4.4	7.5	6.1	6.9	5.0	2.8	2.3	5.0	4.0	4.6	7.2	4.8	4.1	7.2	4.8	6.4	2.8	4.9	3.4	4.4	5.6	8.4	8.8	2.3	8.8	2.4
	N	ENE	N	NE	ENE	ENE	NW	E	E	ENE	SW	WSW	WNW	NW	WNW	WNW	NW	NE	ENE	NE	ENE	ENE	E	E			
Apr 24	6.4	6.6	8.9	7.2	7.3	5.6	9.0	9.7	9.1	10.4	11.9	17.4	16.6	15.9	15.4	15.7	16.6	14.5	14.4	12.1	11.7	12.6	14.4	16.0	5.6	17.4	11.3
	E	E	E	E	E	E	E	E	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE			
Apr 25	15.1	13.6	12.4	11.4	9.2	10.3	9.4	10.2	12.3	11.4	11.9	10.5	13.2	13.4	12.3	14.3	16.7	14.5	11.5	2.8	2.2	2.2	1.7	2.5	1.7	16.7	9.6
	ESE	ESE	ESE	ESE	E	E	E	ESE	ESE	ESE	SE	ESE	ESE	SE	ESE	ESE	ESE	ESE	SSE	SSW	ENE	NE	WSW	NE			
Apr 26	0.9	5.3	3.4	2.2	1.8	3.9	3.3	2.5	1.3	6.8	7.2	5.7	6.4	4.7	4.9	3.1	3.7	9.1	8.4	8.2	8.1	7.9	8.3	5.8	0.9	9.1	3.4
	WSW	WSW	E	ESE	SE	SE	SE	S	WSW	W	NW	NW	NW	NNW	NW	N	NW	WNW	NW	NW	NNW	NNW	NNW	NNW			
Apr 27	3.4	1.1	1.6	3.0	0.4	3.7	5.4	3.1	5.5	7.9	7.8	9.4	7.3	7.0	6.8	6.3	4.7	3.1	2.9	7.6	5.4	4.7	4.1	3.7	0.4	9.4	2.7
	NW	N	N	NW	N	WNW	NW	N	N	NNE	N	N	N	NNW	NW	NW	NW	NW	W	SW	SSW	S	S	SSE			
Apr 28	3.7	5.1	3.3	5.2	5.8	7.1	8.4	10.1	10.1	9.9	10.6	11.4	9.6	8.5	8.1	8.7	8.8	7.3	6.2	5.7	5.9	5.9	5.4	5.1	3.3	11.4	6.2
	SE	S	SW	WSW	W	NW	NW	NW	NW	NW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	NW	NW			
Apr 29	6.3	7.7	9.3	9.7	8.4	8.2	8.3	7.9	6.5	7.2	6.9	7.0	6.1	5.5	6.7	7.2	4.9	5.0	3.7	4.4	3.6	2.4	2.4	2.1	2.1	9.7	6.1
	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	N	NNW	NNW	NNW	NNW	N	NNW			
Apr 30	2.6	1.2	2.9	3.4	3.1	2.9	4.3	5.0	4.1	4.8	4.0	4.7	7.3	8.5	7.3	6.5	8.3	4.7	4.6	4.7	3.9	4.9	6.4	5.9	1.2	8.5	4.5
	N	NNE	NNE	NE	NE	ENE	ENE	E	ESE	E	E	E	ENE	ENE	ENE	ENE	NE	ENE	NE	ENE	ENE	ENE	E	ENE			

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

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

RENO STATION

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 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

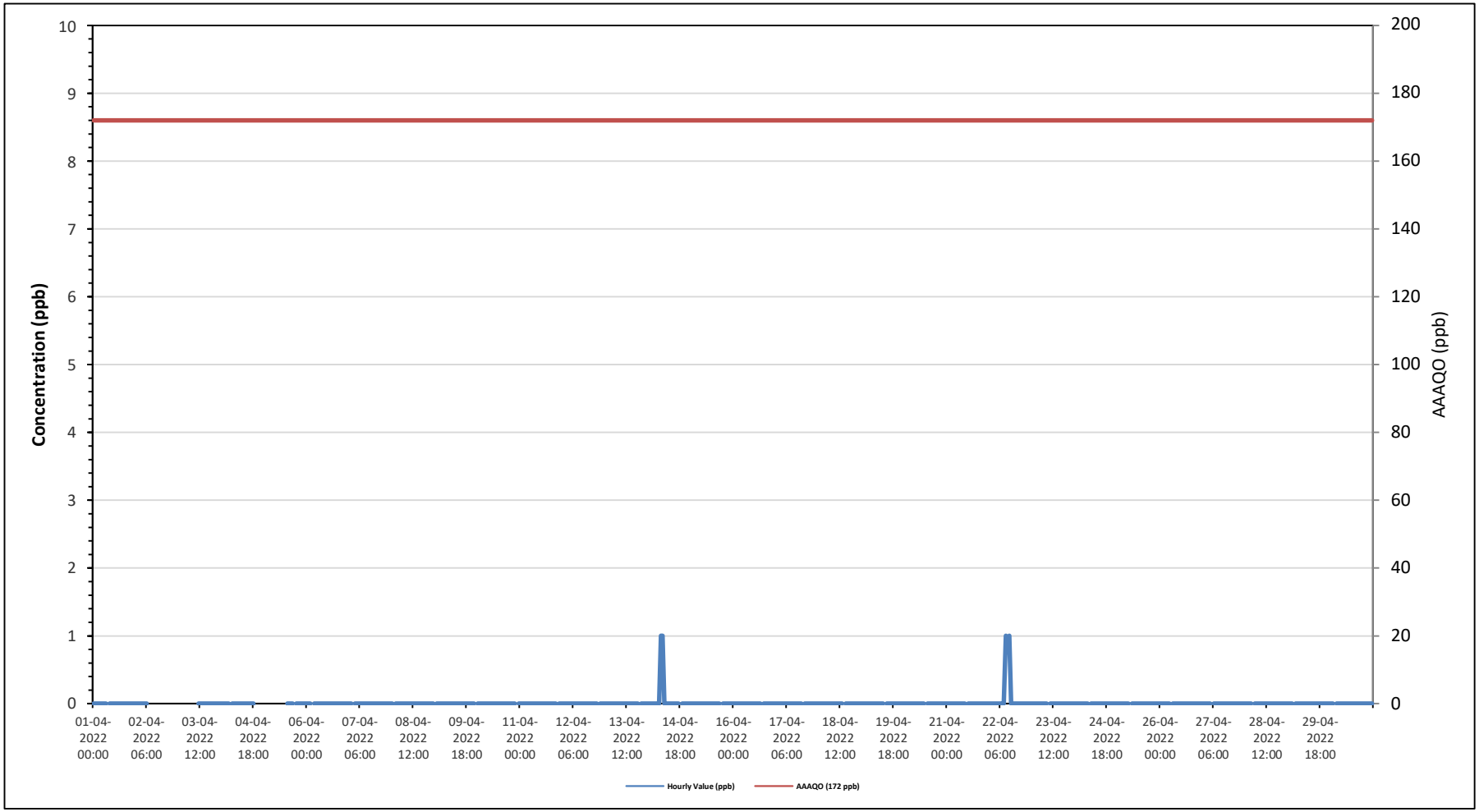
Maximum Hourly Value:	1	ppb	on April 14 at hour 7	Hours in Service:	720
Maximum Daily Value:	0.1	ppb	on April 14	Hours of Data:	647
Minimum Hourly Value:	0	ppb	on April 1 at hour 0	Hours of Missing Data:	39
Minimum Daily Value:	0.0	ppb	on April 1	Hours of Calibration:	34
Monthly Average:	0.0	ppb		Operational Uptime:	94.6

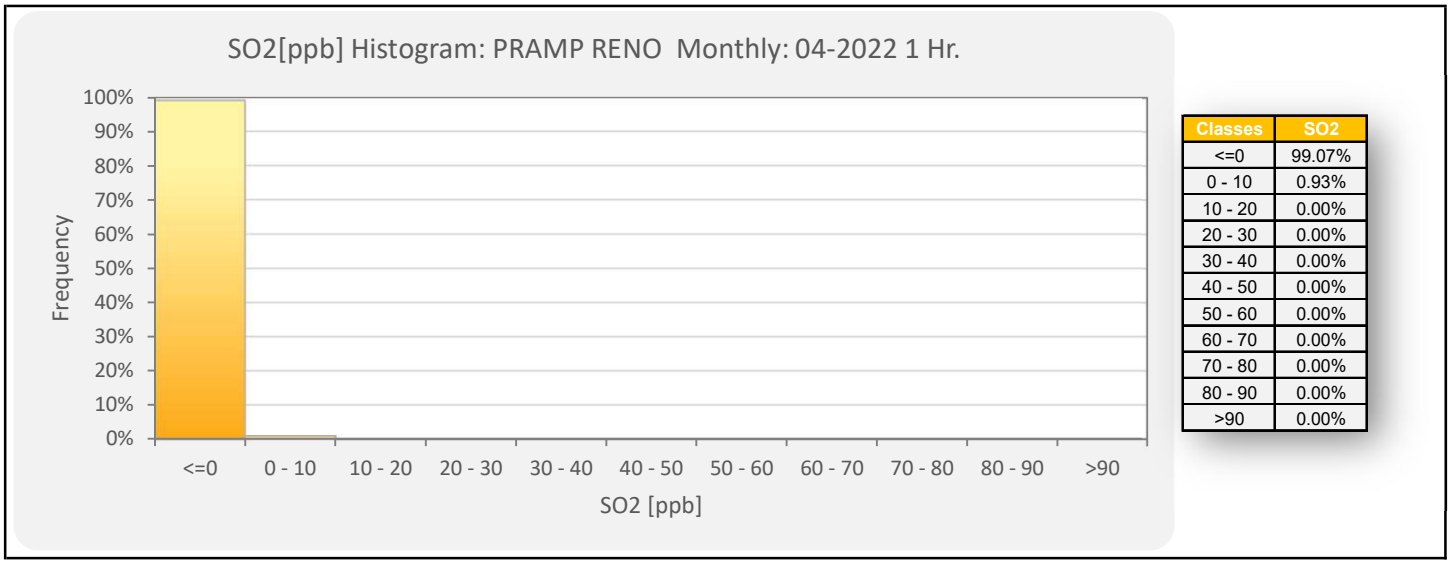
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 2	0	0	0	0	0	0	0	S	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0	0	-
Apr 3	K	K	K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

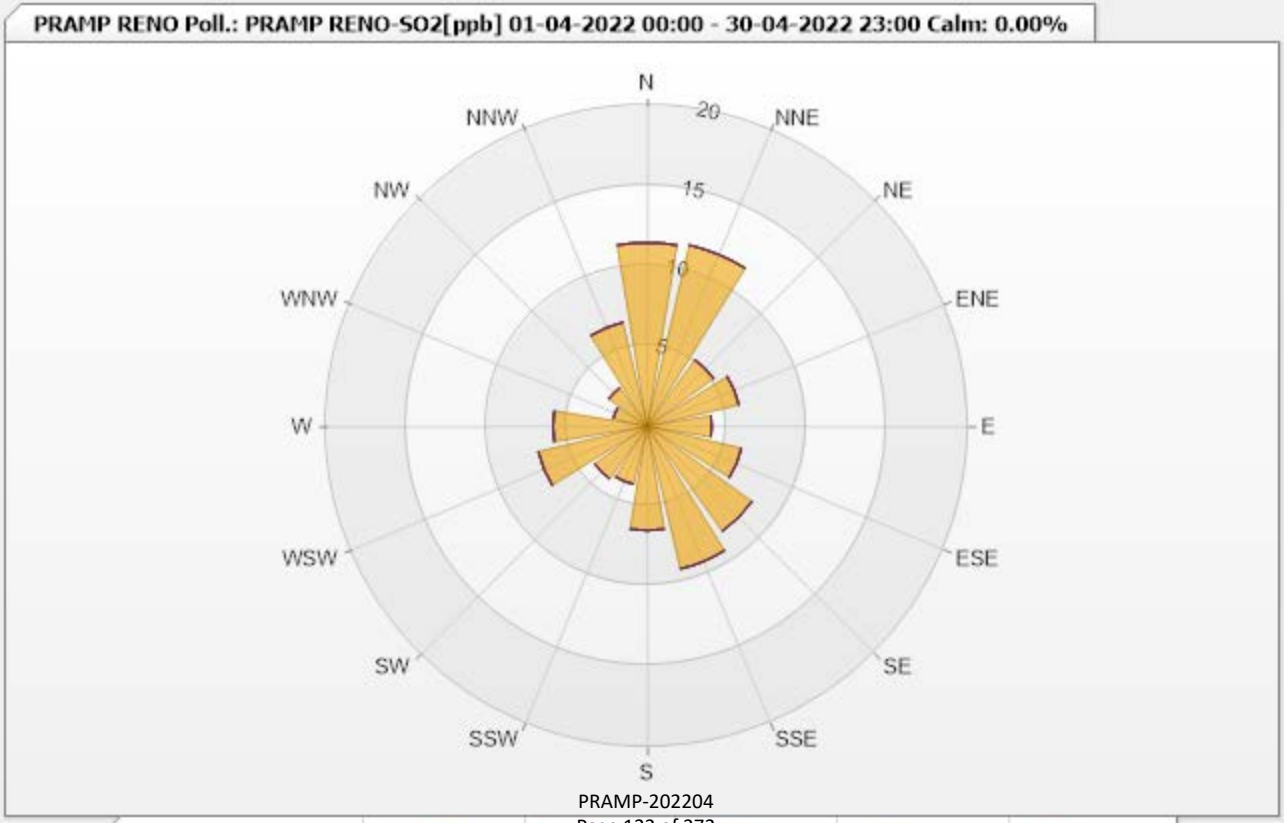




Classes	SO2
<=0	99.07%
0 - 10	0.93%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-SO2[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 89.86% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	11.44	0	0	0	0	11.44
NNE	11.59	0	0	0	0	11.59
NE	5.1	0	0	0	0	5.1
ENE	5.87	0	0	0	0	5.87
E	4.02	0	0	0	0	4.02
ESE	6.03	0	0	0	0	6.03
SE	8.04	0	0	0	0	8.04
SSE	9.12	0	0	0	0	9.12
S	6.49	0	0	0	0	6.49
SSW	3.71	0	0	0	0	3.71
SW	4.02	0	0	0	0	4.02
WSW	6.96	0	0	0	0	6.96
W	5.87	0	0	0	0	5.87
WNW	2.16	0	0	0	0	2.16
NW	2.94	0	0	0	0	2.94
NNW	6.65	0	0	0	0	6.65
Summary	100	0	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-SO2[ppb] 01-04-2022 00:00 - 30-04-2022 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
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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

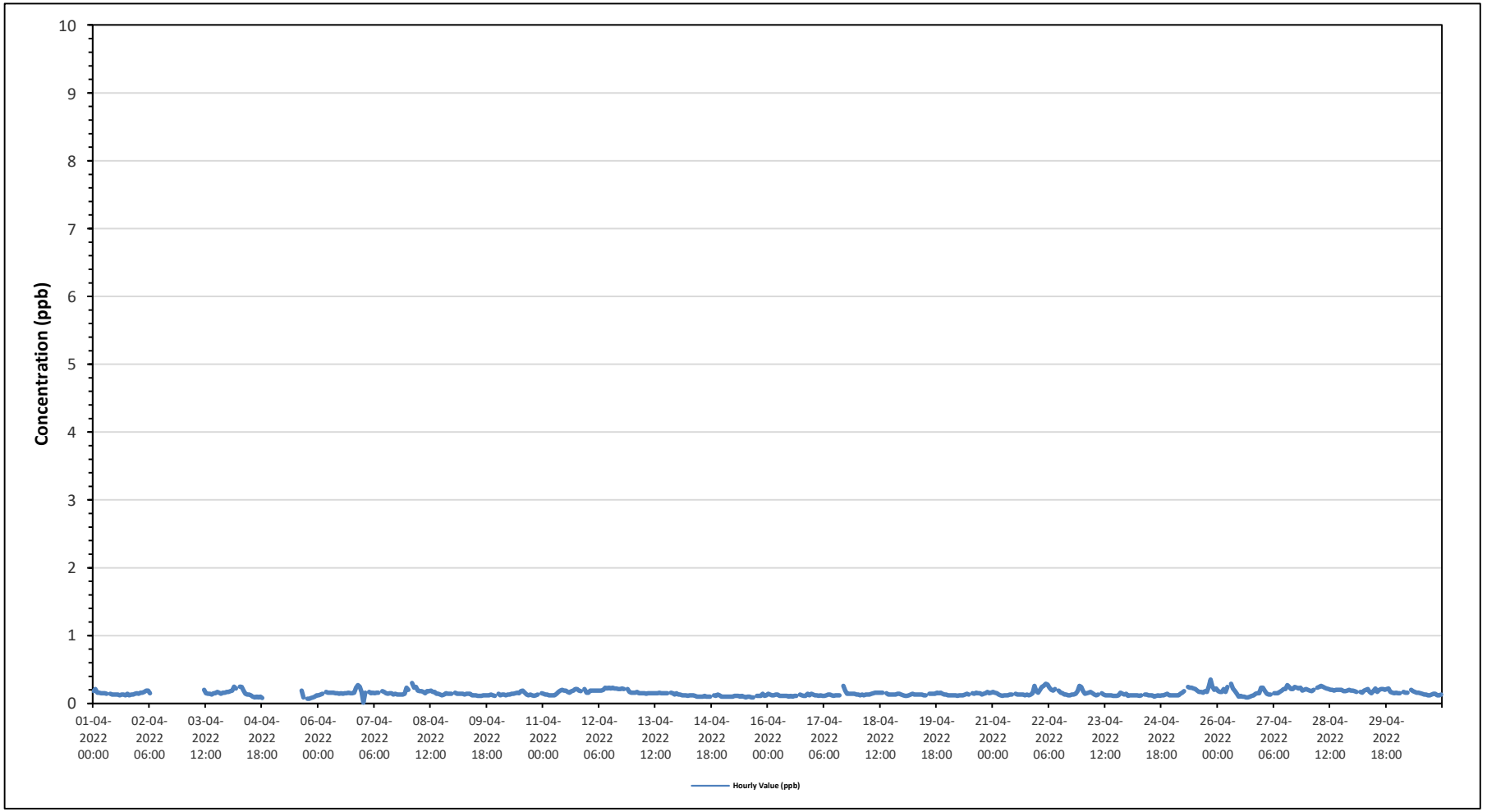
Maximum Hourly Value:	0.35	ppb	on April 25 at hour 20	Hours in Service:	720
Maximum Daily Value:	0.21	ppb	on April 28	Hours of Data:	643
Minimum Hourly Value:	0.01	ppb	on April 7 at hour 0	Hours of Missing Data:	41
Minimum Daily Value:	0.10	ppb	on April 15	Hours of Calibration:	36
Monthly Average:	0.15	ppb		Operational Uptime:	94.3

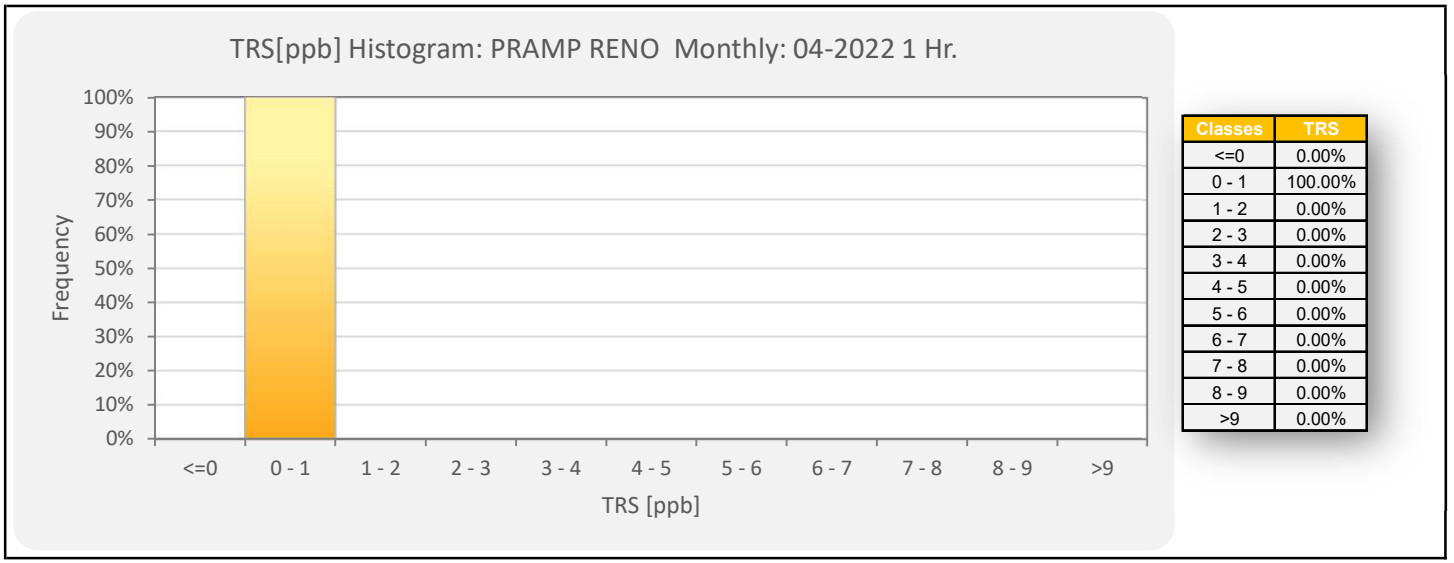
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0.18	0.21	0.16	0.16	0.15	0.15	0.15	0.14	S	0.14	0.13	0.13	0.13	0.13	0.12	0.13	0.13	0.12	0.14	0.12	0.13	0.13	0.14	0.15	0.12	0.21	0.14
Apr 2	0.14	0.16	0.16	0.17	0.19	0.19	0.15	S	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0.14	0.19	-
Apr 3	K	K	K	K	K	K	K	K	K	0.15	S	0.2	0.15	0.14	0.14	0.13	0.15	0.15	0.17	0.16	0.14	0.16	0.16	0.17	0.13	0.20	-
Apr 4	0.17	0.18	0.19	0.25	0.22	S	0.25	0.24	0.19	0.14	0.13	0.13	0.12	0.1	0.09	0.1	0.09	0.1	0.08	K	K	K	K	K	0.08	0.25	0.15
Apr 5	K	K	K	K	K	K	K	K	0.02	C	C	C	C	C	C	0.19	0.09	Y	0.07	0.07	0.08	0.09	0.1	0.12	0.02	0.19	-
Apr 6	0.12	0.13	0.14	S	0.17	0.16	0.16	0.16	0.16	0.15	0.15	0.14	0.15	0.14	0.15	0.15	0.16	0.15	0.15	0.16	0.23	0.27	0.25	0.17	0.12	0.27	0.16
Apr 7	0.01	0.16	S	0.17	0.15	0.16	0.15	0.16	0.16	NRM	0.18	0.17	0.15	0.14	0.15	0.15	0.13	0.14	0.13	0.13	0.13	0.13	0.14	0.23	0.01	0.23	0.15
Apr 8	0.2	S	0.3	0.23	0.24	0.19	0.18	0.18	0.17	0.15	0.18	0.18	0.19	0.17	0.17	0.14	0.14	0.13	0.12	0.13	0.15	0.14	0.14	0.14	0.12	0.30	0.17
Apr 9	S	0.16	0.14	0.14	0.14	0.14	0.13	0.14	0.14	0.14	0.12	0.12	0.12	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.13	0.12	0.11	S	0.11	0.16	0.13
Apr 10	0.14	0.12	0.13	0.13	0.12	0.13	0.13	0.14	0.14	0.15	0.16	0.15	0.18	0.19	0.16	0.13	0.12	0.13	0.12	0.11	0.12	0.13	S	0.15	0.11	0.19	0.14
Apr 11	0.14	0.13	0.13	0.12	0.12	0.12	0.12	0.14	0.17	0.19	0.2	0.19	0.19	0.17	0.16	0.18	0.19	0.21	0.21	0.19	0.18	S	0.21	0.16	0.12	0.21	0.17
Apr 12	0.16	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.2	0.23	0.22	0.23	0.22	0.23	0.22	0.22	0.21	0.21	0.22	0.21	S	0.21	0.17	0.16	0.16	0.23	0.20
Apr 13	0.16	0.16	0.17	0.15	0.15	0.15	0.15	0.14	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.15	0.15	0.15	0.15	S	0.16	0.15	0.13	0.15	0.13	0.17	0.15
Apr 14	0.13	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.12	0.11	0.1	0.1	0.1	0.1	0.11	0.1	0.1	0.1	S	0.12	0.11	0.13	0.12	0.1	0.10	0.13	0.11
Apr 15	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.11	0.11	0.1	0.11	0.1	0.09	0.1	0.1	0.09	0.09	S	0.11	0.11	0.11	0.14	0.11	0.12	0.09	0.14	0.10
Apr 16	0.14	0.13	0.12	0.12	0.13	0.13	0.11	0.11	0.11	0.11	0.11	0.1	0.11	0.1	0.11	0.11	S	0.13	0.12	0.11	0.11	0.14	0.12	0.14	0.10	0.14	0.12
Apr 17	0.13	0.12	0.12	0.11	0.12	0.11	0.11	0.12	0.13	0.13	0.12	0.11	0.12	0.12	0.12	S	0.26	0.19	0.14	0.14	0.14	0.14	0.14	0.13	0.11	0.26	0.13
Apr 18	0.13	0.12	0.13	0.12	0.13	0.13	0.13	0.14	0.15	0.16	0.16	0.16	0.16	0.16	S	0.15	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.13	0.12	0.16	0.14
Apr 19	0.12	0.11	0.11	0.12	0.13	0.14	0.13	0.13	0.13	0.13	0.13	0.12	0.12	S	0.14	0.14	0.14	0.14	0.16	0.15	0.16	0.14	0.13	0.13	0.11	0.16	0.13
Apr 20	0.12	0.12	0.12	0.12	0.12	0.11	0.12	0.12	0.12	0.13	0.14	0.13	S	0.15	0.14	0.16	0.15	0.15	0.13	0.14	0.15	0.17	0.15	0.16	0.11	0.17	0.14
Apr 21	0.17	0.16	0.15	0.13	0.12	0.11	0.12	0.12	0.12	0.13	0.13	S	0.14	0.13	0.13	0.13	0.13	0.12	0.13	0.12	0.13	0.15	0.26	0.18	0.11	0.26	0.14
Apr 22	0.16	0.2	0.24	0.26	0.29	0.28	0.23	0.2	0.19	0.21	S	0.19	0.16	0.15	0.13	0.13	0.12	0.12	0.13	0.13	0.14	0.18	0.26	0.24	0.12	0.29	0.19
Apr 23	0.18	0.14	0.15	0.16	0.17	0.15	0.13	0.12	0.13	S	0.15	0.13	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.12	0.16	0.14	0.13	0.14	0.11	0.18	0.14
Apr 24	0.11	0.12	0.12	0.12	0.12	0.12	0.11	0.12	S	0.13	0.13	0.12	0.12	0.12	0.1	0.11	0.12	0.11	0.12	0.12	0.13	0.14	0.12	0.12	0.10	0.14	0.12
Apr 25	0.12	0.12	0.12	0.12	0.14	0.16	0.18	S	0.24	0.23	0.23	0.22	0.21	0.19	0.17	0.17	0.16	0.18	0.17	0.25	0.35	0.25	0.2	0.22	0.12	0.35	0.19
Apr 26	0.18	0.17	0.17	0.21	0.17	0.24	S	0.29	0.22	0.18	0.14	0.1	0.11	0.1	0.1	0.09	0.09	0.1	0.11	0.12	0.14	0.15	0.15	0.23	0.09	0.29	0.15
Apr 27	0.23	0.18	0.14	0.13	0.13	S	0.15	0.15	0.15	0.17	0.19	0.21	0.21	0.27	0.24	0.21	0.21	0.24	0.23	0.22	0.23	0.19	0.2	0.21	0.13	0.27	0.20
Apr 28	0.2	0.19	0.18	0.2	S	0.23	0.24	0.26	0.25	0.23	0.22	0.21	0.2	0.2	0.19	0.2	0.2	0.2	0.2	0.18	0.18	0.19	0.2	0.19	0.18	0.26	0.21
Apr 29	0.19	0.18	0.17	S	0.17	0.16	0.19	0.2	0.21	0.17	0.15	0.18	0.22	0.17	0.2	0.21	0.21	0.2	0.21	0.22	0.17	0.16	0.15	0.16	0.15	0.22	0.18
Apr 30	0.15	0.15	S	0.17	0.16	0.16	NRM	0.2	0.18	0.17	0.16	0.16	0.15	0.14	0.13	0.13	0.12	0.12	0.13	0.14	0.14	0.12	0.12	0.13	0.12	0.20	0.15
Diurnal Maximum	0.23	0.21	0.30	0.26	0.29	0.28	0.25	0.29	0.25	0.23	0.23	0.23	0.22	0.27	0.24	0.22	0.26	0.24	0.23	0.25	0.35	0.27	0.26	0.24			
Diurnal Average	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.15	0.14	0.15	0.15	0.16	0.16	0.16			

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

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

Timeseries Chart of Hourly Average for TRS - Reno Station

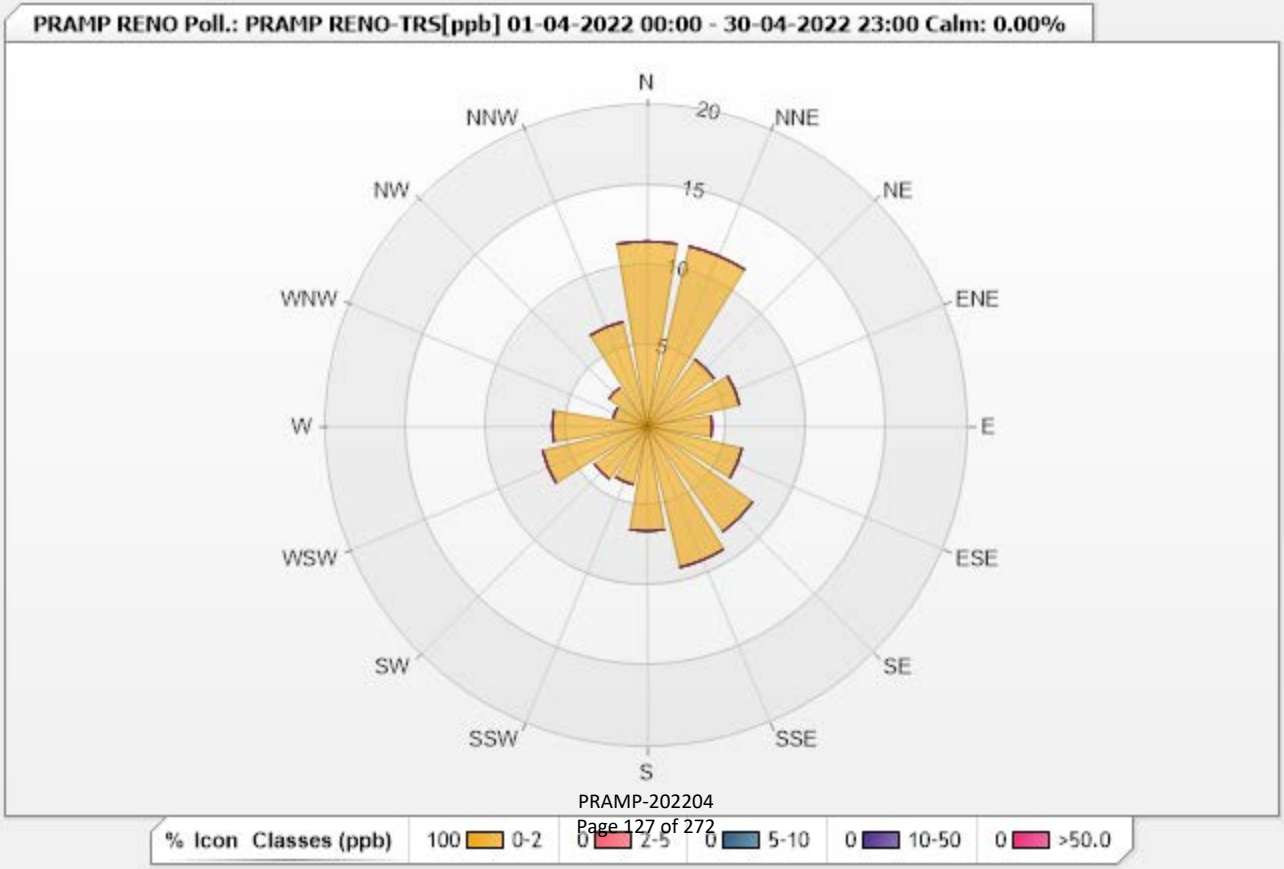




Classes	TRS
<=0	0.00%
0 - 1	100.00%
1 - 2	0.00%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-TRS[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 89.31% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	11.51	0	0	0	0	11.51
NNE	11.51	0	0	0	0	11.51
NE	5.13	0	0	0	0	5.13
ENE	5.91	0	0	0	0	5.91
E	4.04	0	0	0	0	4.04
ESE	6.07	0	0	0	0	6.07
SE	8.09	0	0	0	0	8.09
SSE	9.02	0	0	0	0	9.02
S	6.53	0	0	0	0	6.53
SSW	3.73	0	0	0	0	3.73
SW	4.04	0	0	0	0	4.04
WSW	6.69	0	0	0	0	6.69
W	5.91	0	0	0	0	5.91
WNW	2.18	0	0	0	0	2.18
NW	2.95	0	0	0	0	2.95
NNW	6.69	0	0	0	0	6.69
Summary	100	0	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-TRS[ppb] 01-04-2022 00:00 - 30-04-2022 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 - April 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

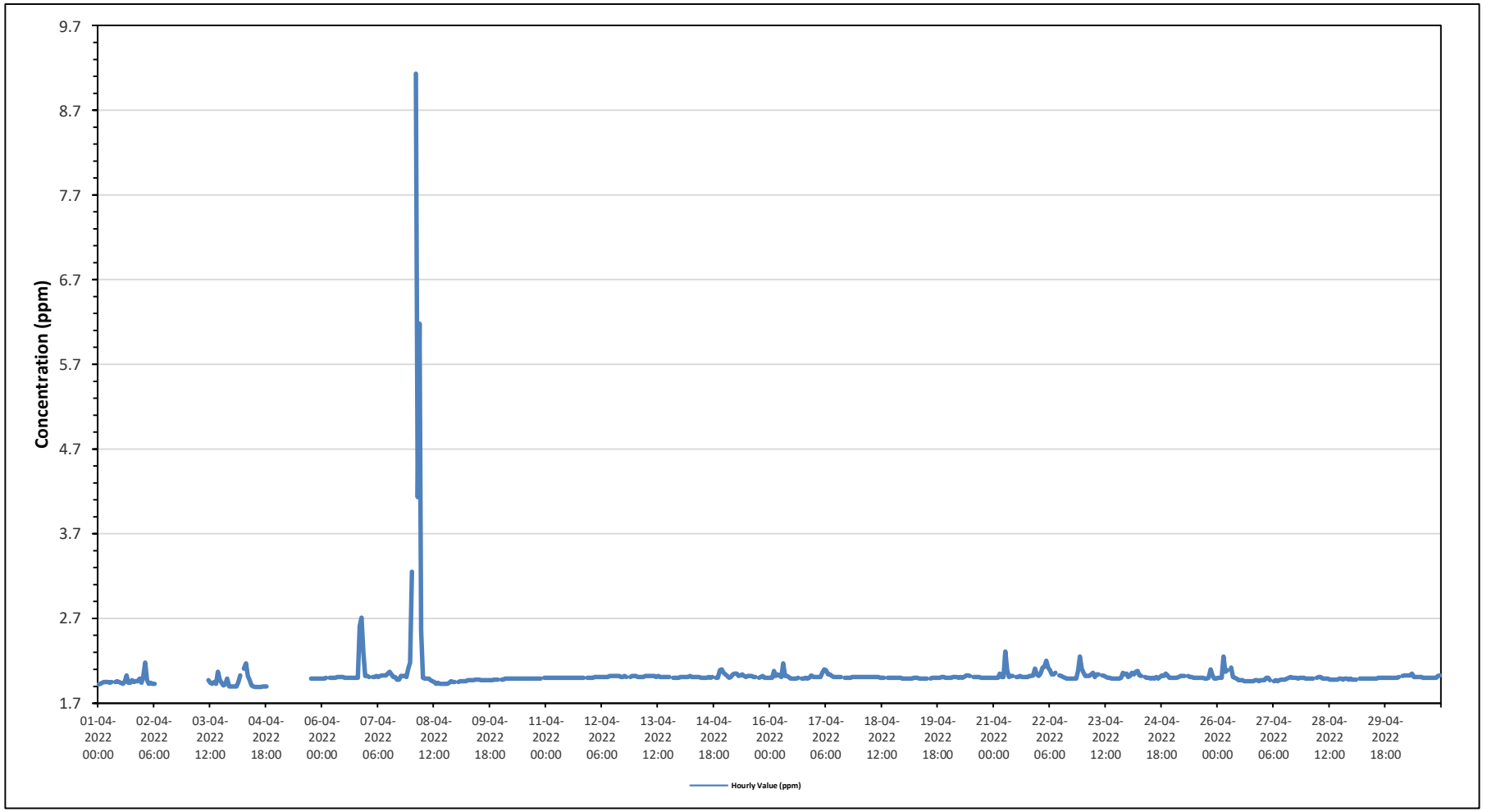
Maximum Hourly Value:	9.13	ppm	on April 8 at hour 2	Hours in Service:	720
Maximum Daily Value:	2.63	ppm	on April 8	Hours of Data:	645
Minimum Hourly Value:	1.89	ppm	on April 4 at hour 12	Hours of Missing Data:	41
Minimum Daily Value:	1.95	ppm	on April 4	Hours of Calibration:	34
Monthly Average:	2.03	ppm		Operational Uptime:	94.3

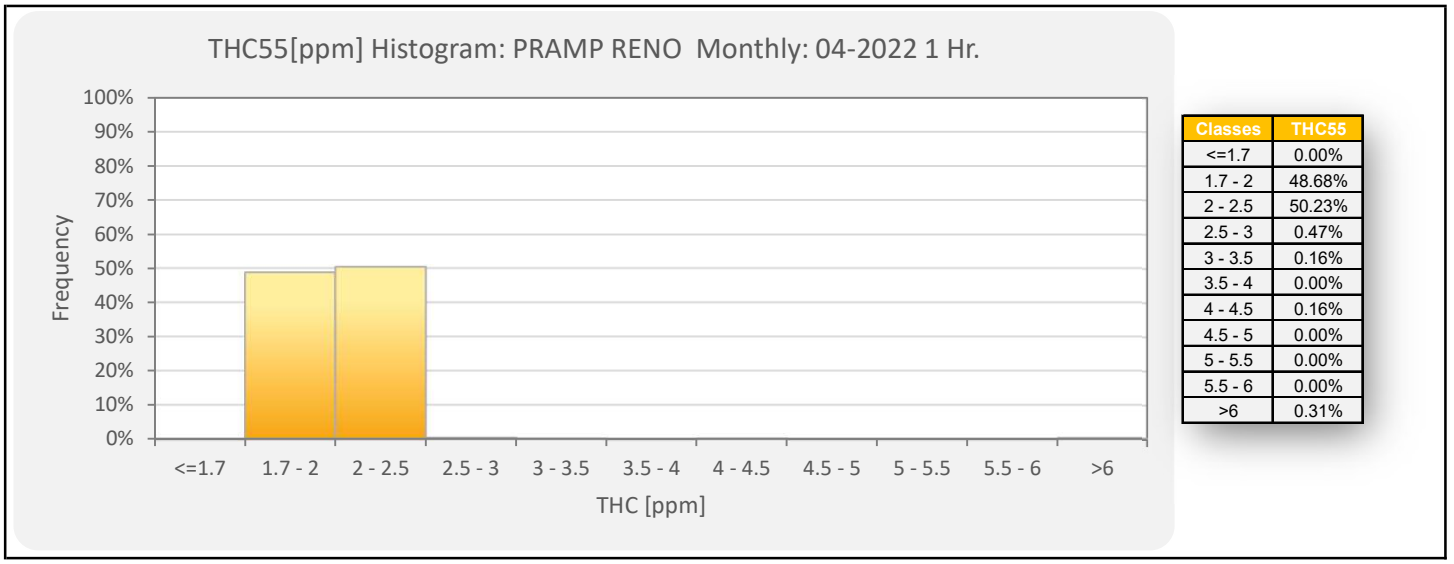
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	1.92	1.93	1.94	1.95	1.95	1.95	1.94	1.95	S	1.95	1.96	1.95	1.94	1.93	1.95	2.03	1.94	1.94	1.97	1.95	1.96	1.96	1.99	1.94	1.92	2.03	1.95
Apr 2	2.02	2.18	1.97	1.93	1.94	1.93	1.93	S	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	1.93	2.18	-
Apr 3	K	K	K	K	K	K	K	K	K	1.95	S	1.97	1.94	1.93	1.95	1.93	2.07	1.98	1.94	1.91	1.92	1.99	1.90	1.90	1.90	2.07	-
Apr 4	1.90	1.90	1.90	1.95	2.03	S	2.11	2.17	2.02	1.97	1.91	1.90	1.89	1.89	1.89	1.89	1.90	1.90	1.90	K	K	K	K	K	1.89	2.17	1.95
Apr 5	K	K	K	K	K	K	K	K	1.94	K	K	1.95	C	C	C	C	1.99	Y	1.99	1.99	1.99	1.99	1.99	1.99	1.94	1.99	-
Apr 6	1.99	1.99	2.00	S	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.61	2.71	2.30	2.02	1.99	2.71	2.07
Apr 7	2.02	2.01	S	2.01	2.01	2.02	2.01	2.02	2.03	2.03	2.03	2.05	2.07	2.04	2.01	2.01	1.98	1.98	2.02	2.02	2.02	2.01	2.11	2.18	1.98	2.18	2.03
Apr 8	3.25	S	9.13	4.13	6.18	2.56	2.00	1.99	1.99	1.99	1.97	1.96	1.95	1.93	1.94	1.93	1.93	1.93	1.93	1.93	1.94	1.96	1.95	1.95	1.93	**9.13**	**2.63**
Apr 9	S	1.95	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	S	1.95	1.98	1.97
Apr 10	1.98	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	S	2.00	1.98	2.00	1.99
Apr 11	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	S	2.00	2.00	2.00	2.00	2.00
Apr 12	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.02	2.01	S	2.01	2.02	2.02	2.00	2.02	2.01
Apr 13	2.02	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.01	S	2.00	2.00	2.00	2.00	2.00	2.02	2.01
Apr 14	2.01	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.01	2.00	2.01	S	2.00	2.00	2.09	2.10	2.06	2.00	2.10	2.02
Apr 15	2.04	2.02	2.00	2.01	2.04	2.05	2.05	2.02	2.03	2.04	2.02	2.01	2.02	2.02	2.02	2.01	2.01	S	2.00	2.01	2.02	2.00	2.00	2.00	2.00	2.05	2.02
Apr 16	2.00	2.00	2.08	2.02	2.04	2.03	2.01	2.17	2.02	2.02	2.01	1.99	1.99	1.99	1.99	2.00	S	1.99	1.99	2.00	1.99	2.00	2.03	2.01	1.99	2.17	2.02
Apr 17	2.01	2.01	2.01	2.01	2.06	2.10	2.09	2.04	2.04	2.02	2.01	2.01	2.01	2.01	2.01	S	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.10	2.02
Apr 18	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	2.01	2.00
Apr 19	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	S	1.99	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.00	2.00	1.99	2.01	2.00
Apr 20	2.00	2.00	2.01	2.01	2.01	2.00	2.01	2.00	2.01	2.03	2.03	2.02	S	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.03	2.01
Apr 21	2.00	2.00	2.00	2.05	2.01	2.01	2.31	2.09	2.01	2.02	2.02	S	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.11	2.04	2.00	2.31	2.04
Apr 22	2.02	2.05	2.12	2.13	2.20	2.12	2.09	2.04	2.04	2.06	S	2.03	2.02	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	2.08	2.25	2.11	1.99	2.25	2.06
Apr 23	2.06	2.02	2.02	2.02	2.04	2.06	2.01	2.04	2.04	S	2.03	2.02	2.01	2.00	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.06	2.04	2.05	1.99	2.06	2.02
Apr 24	2.01	2.02	2.06	2.04	2.07	2.08	2.03	2.02	S	2.01	2.00	2.00	1.99	2.00	1.99	2.01	1.99	2.01	2.03	2.02	2.05	2.03	2.00	2.00	1.99	2.08	2.02
Apr 25	2.00	2.00	2.00	2.01	2.02	2.02	2.02	S	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	2.00	2.10	2.03	1.99	1.99	1.99	2.10	2.01
Apr 26	2.00	2.00	2.00	2.25	2.07	2.09	S	2.12	2.01	2.00	1.99	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.96	1.97	1.96	2.25	2.00
Apr 27	1.97	1.97	2.00	2.00	1.97	S	1.96	1.97	1.96	1.97	1.98	1.98	1.98	1.99	2.00	2.01	2.00	2.00	2.00	1.99	2.00	2.00	2.00	1.99	1.96	2.01	1.99
Apr 28	1.99	1.99	1.99	1.99	S	2.00	2.01	2.01	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.98	1.99	1.99	1.98	1.99	1.98	2.01	1.99
Apr 29	1.98	1.98	1.98	S	1.99	1.99	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	2.00	2.00	2.00	2.00	1.98	2.00	1.99
Apr 30	2.00	2.01	S	2.02	2.03	2.03	2.03	2.03	2.05	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.02	2.03	2.00	2.05	2.01
Diurnal Maximum	3.25	2.18	9.13	4.13	6.18	2.56	2.31	2.17	2.05	2.06	2.03	2.05	2.07	2.04	2.02	2.03	2.07	2.01	2.03	2.02	2.61	2.71	2.30	2.18			
Diurnal Average	2.04	2.00	2.28	2.10	2.17	2.04	2.02	2.03	2.01	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.02	2.03	2.03	2.01			

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

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

Timeseries Chart of Hourly Average for THC - Reno Station

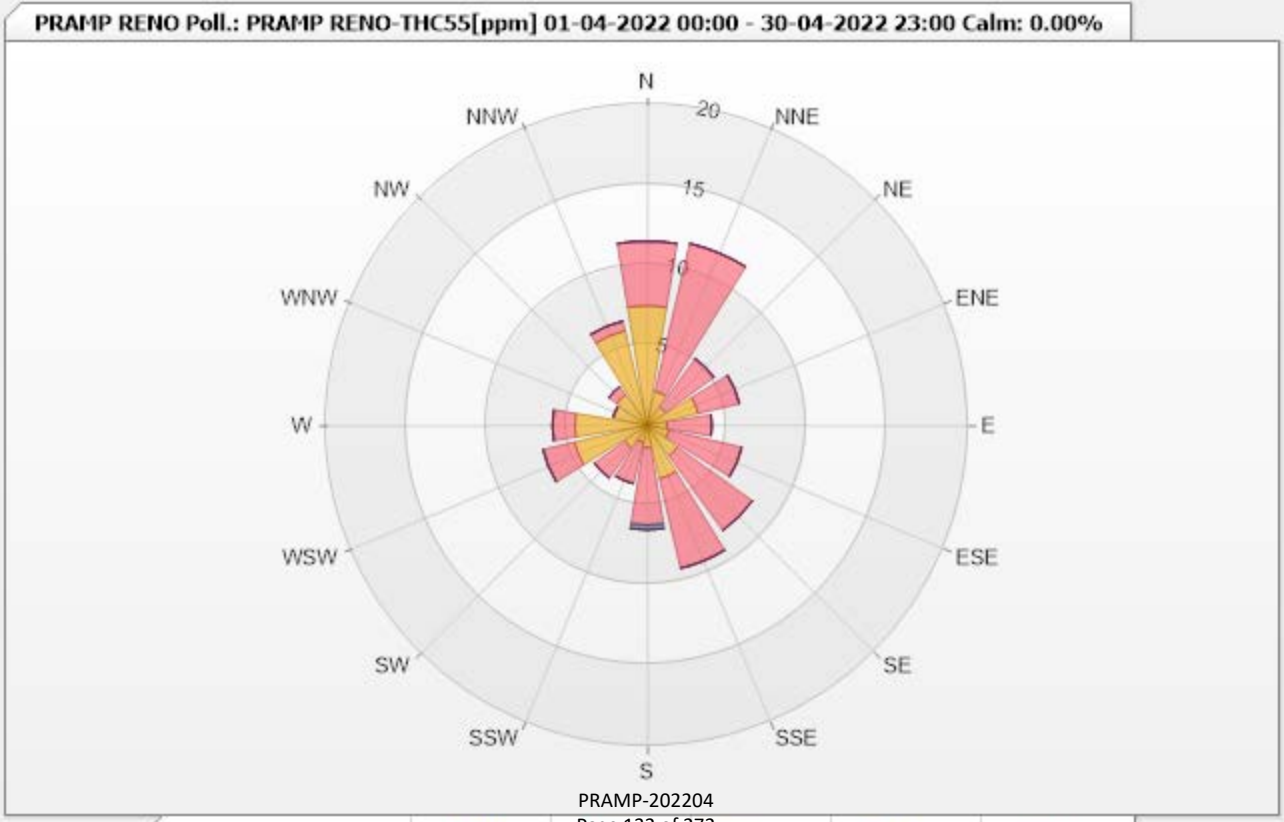




Classes	THC55
<=1.7	0.00%
1.7 - 2	48.68%
2 - 2.5	50.23%
2.5 - 3	0.47%
3 - 3.5	0.16%
3.5 - 4	0.00%
4 - 4.5	0.16%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.31%

Wind: PRAMP RENO Poll.: PRAMP RENO-THC55[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 89.58% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	7.44	4.03	0	0	0	11.47
NNE	2.17	9.46	0	0	0	11.63
NE	1.4	3.72	0	0	0	5.12
ENE	3.26	2.64	0	0	0	5.9
E	1.24	2.79	0	0	0	4.03
ESE	1.4	4.65	0	0	0	6.05
SE	2.33	5.74	0	0	0	8.07
SSE	3.41	5.74	0	0	0	9.15
S	1.4	4.81	0.31	0	0	6.52
SSW	1.09	2.64	0	0	0	3.73
SW	1.71	2.33	0	0	0	4.04
WSW	4.65	2.02	0	0	0	6.67
W	4.5	1.4	0	0	0	5.9
WNW	2.17	0	0	0	0	2.17
NW	2.33	0.62	0	0	0	2.95
NNW	6.05	0.62	0	0	0	6.67
Summary	46.55	53.21	0.31	0	0	100


PRAMP RENO Poll.: PRAMP RENO-THC55[ppm] 01-04-2022 00:00 - 30-04-2022 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)
47 0-2
53 2-5
0 5-10
0 10-40
0 >40.0

peace river area monitoring program
pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

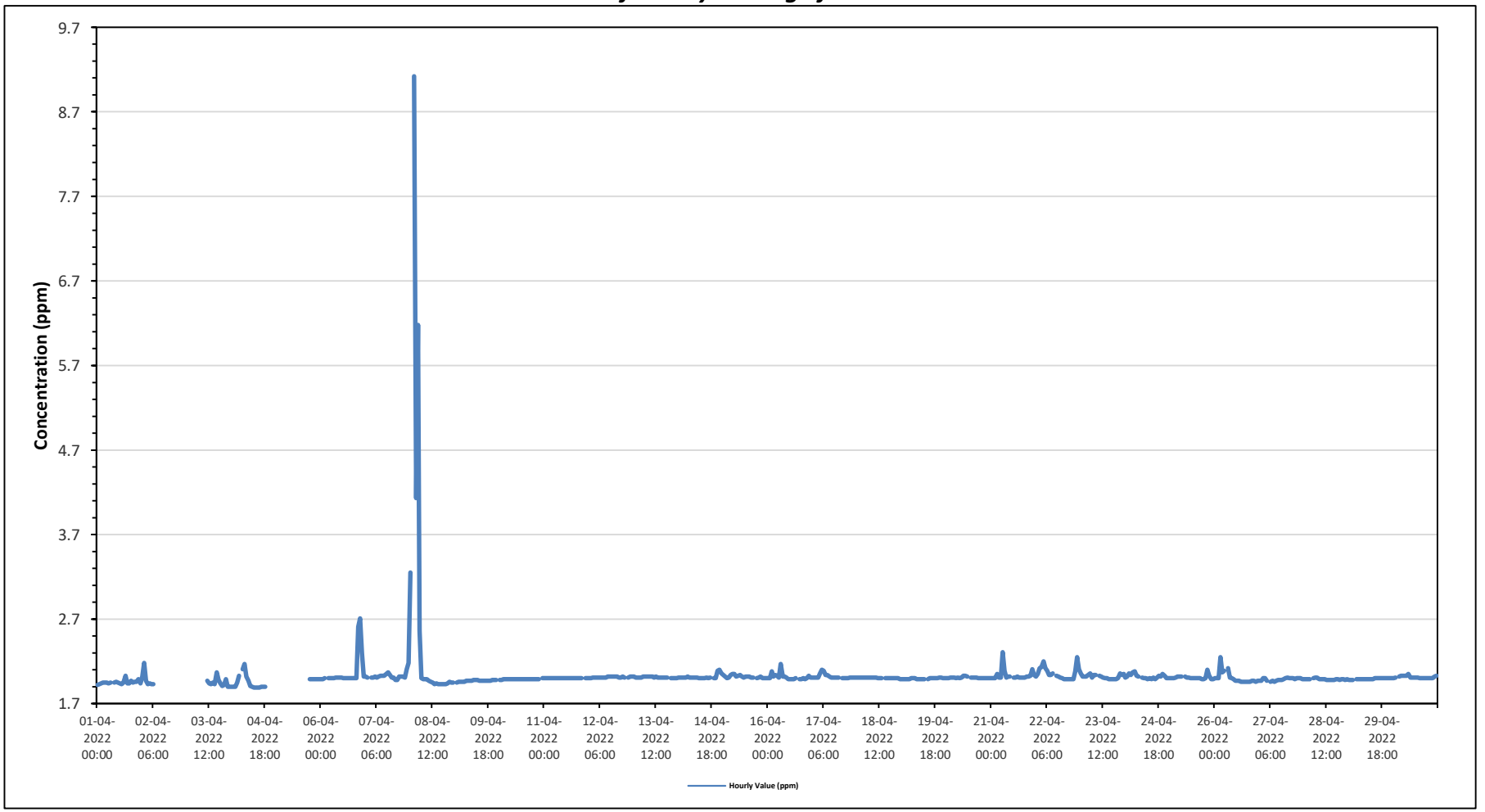
Maximum Hourly Value:	9.12	ppm	on April 8 at hour 2	Hours in Service:	720
Maximum Daily Value:	2.63	ppm	on April 8	Hours of Data:	645
Minimum Hourly Value:	1.89	ppm	on April 4 at hour 12	Hours of Missing Data:	41
Minimum Daily Value:	1.95	ppm	on April 4	Hours of Calibration:	34
Monthly Average:	2.03	ppm		Operational Uptime:	94.3

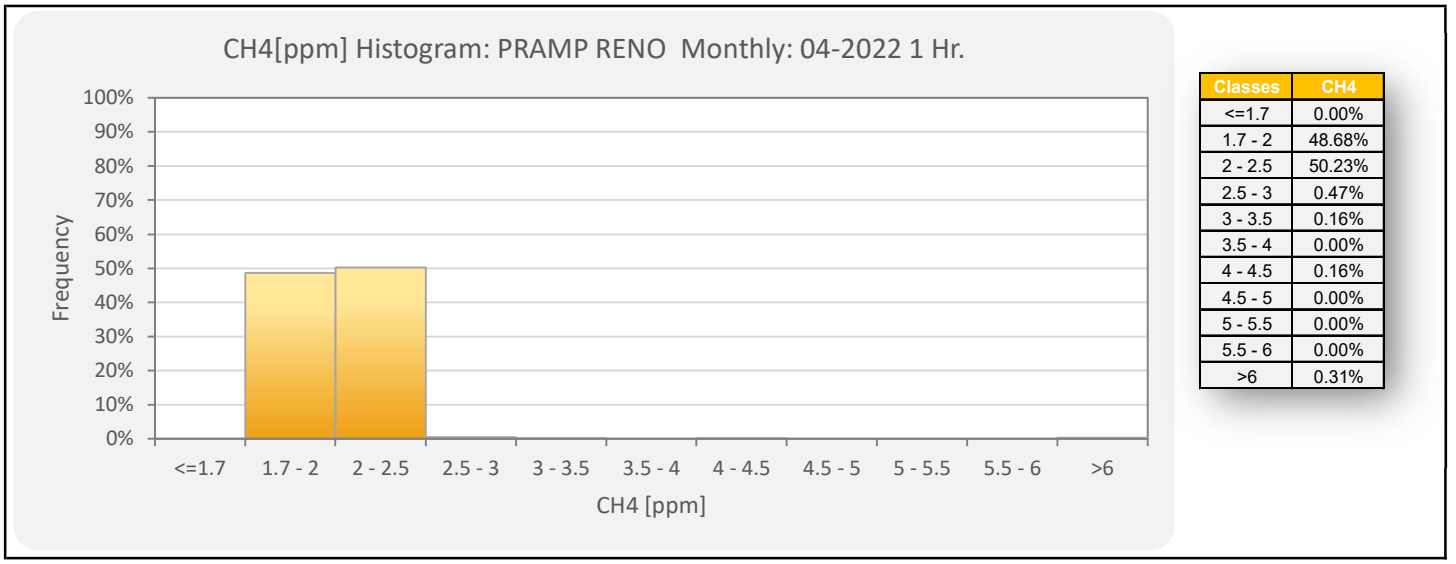
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	1.92	1.93	1.94	1.95	1.95	1.95	1.94	1.95	S	1.95	1.96	1.95	1.94	1.93	1.95	2.03	1.94	1.94	1.97	1.95	1.96	1.96	1.99	1.94	1.92	2.03	1.95
Apr 2	2.02	2.18	1.97	1.93	1.94	1.93	1.93	S	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	1.93	2.18	-
Apr 3	K	K	K	K	K	K	K	K	K	1.95	S	1.97	1.94	1.93	1.95	1.93	2.07	1.98	1.94	1.91	1.92	1.99	1.90	1.90	1.90	2.07	-
Apr 4	1.90	1.90	1.90	1.95	2.03	S	2.11	2.17	2.02	1.97	1.91	1.90	1.89	1.89	1.89	1.89	1.90	1.90	1.90	K	K	K	K	K	1.89	2.17	1.95
Apr 5	K	K	K	K	K	K	K	K	1.94	K	K	1.95	C	C	C	C	1.99	Y	1.99	1.99	1.99	1.99	1.99	1.99	1.94	1.99	-
Apr 6	1.99	1.99	2.00	S	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.61	2.71	2.30	2.02	1.99	2.71	2.07
Apr 7	2.02	2.01	S	2.01	2.01	2.02	2.01	2.02	2.03	2.03	2.03	2.05	2.07	2.04	2.01	2.01	1.98	1.98	2.02	2.02	2.02	2.01	2.11	2.18	1.98	2.18	2.03
Apr 8	3.25	S	9.12	4.13	6.18	2.56	2.00	1.99	1.99	1.99	1.97	1.96	1.95	1.93	1.94	1.93	1.93	1.93	1.93	1.93	1.94	1.96	1.95	1.95	1.93	**9.12**	**2.63**
Apr 9	S	1.95	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	S	1.95	1.98	1.97
Apr 10	1.98	1.98	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	S	2.00	1.98	2.00	1.99
Apr 11	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	S	2.00	2.00	2.00	2.00	2.00
Apr 12	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.02	2.01	S	2.01	2.02	2.02	2.00	2.02	2.01
Apr 13	2.02	2.01	2.01	2.01	2.01	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.01	S	2.00	2.00	2.00	2.00	2.00	2.02	2.01
Apr 14	2.01	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.01	2.00	2.01	S	2.00	2.00	2.09	2.10	2.06	2.00	2.10	2.02
Apr 15	2.04	2.02	2.00	2.01	2.04	2.05	2.05	2.02	2.03	2.04	2.02	2.01	2.02	2.02	2.02	2.01	2.01	S	2.00	2.01	2.02	2.00	2.00	2.00	2.00	2.05	2.02
Apr 16	2.00	2.00	2.08	2.02	2.04	2.03	2.01	2.17	2.02	2.02	2.01	1.99	1.99	1.99	1.99	2.00	S	1.99	1.99	2.00	1.99	2.00	2.03	2.01	1.99	2.17	2.02
Apr 17	2.01	2.01	2.01	2.01	2.06	2.10	2.09	2.04	2.04	2.02	2.01	2.01	2.01	2.01	2.01	S	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.10	2.02
Apr 18	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	S	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	2.01	2.00
Apr 19	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	1.99	1.99	1.99	1.99	1.99	S	1.99	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.00	2.00	1.99	2.01	2.00
Apr 20	2.00	2.00	2.01	2.01	2.01	2.00	2.01	2.00	2.01	2.03	2.03	2.02	S	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.03	2.01
Apr 21	2.00	2.00	2.00	2.05	2.01	2.01	2.31	2.09	2.01	2.02	2.02	S	2.01	2.01	2.02	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.11	2.04	2.00	2.31	2.04
Apr 22	2.02	2.05	2.12	2.13	2.20	2.12	2.09	2.04	2.04	2.06	S	2.03	2.02	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	2.08	2.25	2.11	1.99	2.25	2.06
Apr 23	2.06	2.02	2.02	2.02	2.04	2.06	2.01	2.04	2.04	S	2.03	2.02	2.01	2.00	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.06	2.04	2.05	1.99	2.06	2.02
Apr 24	2.01	2.02	2.06	2.04	2.07	2.08	2.03	2.02	S	2.01	2.00	2.00	1.99	2.00	1.99	2.01	1.99	2.01	2.03	2.02	2.05	2.03	2.00	2.00	1.99	2.08	2.02
Apr 25	2.00	2.00	2.00	2.01	2.02	2.02	2.02	S	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	2.00	2.10	2.03	1.99	1.99	1.99	2.10	2.01
Apr 26	2.00	2.00	2.00	2.25	2.07	2.09	S	2.12	2.01	2.00	1.99	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.96	1.97	1.96	2.25	2.00
Apr 27	1.97	1.97	2.00	2.00	1.97	S	1.96	1.97	1.96	1.97	1.98	1.98	1.98	1.99	2.00	2.01	2.00	2.00	2.00	1.99	2.00	2.00	2.00	1.99	1.96	2.01	1.99
Apr 28	1.99	1.99	1.99	1.99	S	2.00	2.01	2.01	1.99	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.98	1.99	1.99	1.98	1.99	1.98	2.01	1.99
Apr 29	1.98	1.98	1.98	S	1.99	1.99	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	2.00	2.00	2.00	2.00	1.98	2.00	1.99
Apr 30	2.00	2.01	S	2.02	2.03	2.03	2.03	2.03	2.05	2.01	2.01	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.02	2.03	2.00	2.05	2.01
Diurnal Maximum	3.25	2.18	9.12	4.13	6.18	2.56	2.31	2.17	2.05	2.06	2.03	2.05	2.07	2.04	2.02	2.03	2.07	2.01	2.03	2.02	2.61	2.71	2.30	2.18			
Diurnal Average	2.04	2.00	2.28	2.10	2.17	2.04	2.02	2.03	2.01	2.00	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.02	2.03	2.03	2.01			

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

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

Timeseries Chart of Hourly Average for CH4 - Reno Station

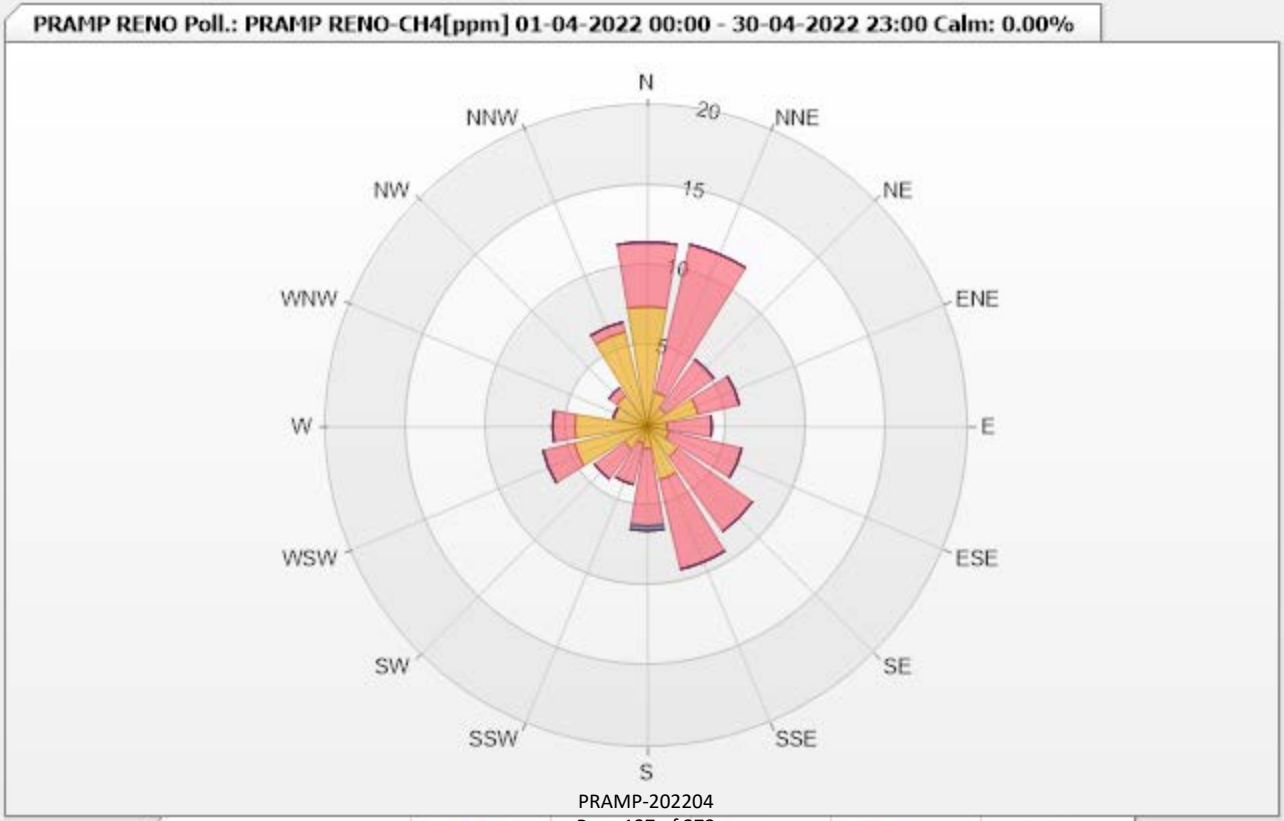




Classes	CH4
<=1.7	0.00%
1.7 - 2	48.68%
2 - 2.5	50.23%
2.5 - 3	0.47%
3 - 3.5	0.16%
3.5 - 4	0.00%
4 - 4.5	0.16%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.31%

Wind: PRAMP RENO Poll.: PRAMP RENO-CH4[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 89.58% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	7.44	4.03	0	0	0	11.47
NNE	2.17	9.46	0	0	0	11.63
NE	1.4	3.72	0	0	0	5.12
ENE	3.26	2.64	0	0	0	5.9
E	1.24	2.79	0	0	0	4.03
ESE	1.4	4.65	0	0	0	6.05
SE	2.33	5.74	0	0	0	8.07
SSE	3.41	5.74	0	0	0	9.15
S	1.4	4.81	0.31	0	0	6.52
SSW	1.09	2.64	0	0	0	3.73
SW	1.71	2.33	0	0	0	4.04
WSW	4.65	2.02	0	0	0	6.67
W	4.5	1.4	0	0	0	5.9
WNW	2.17	0	0	0	0	2.17
NW	2.33	0.62	0	0	0	2.95
NNW	6.05	0.62	0	0	0	6.67
Summary	46.55	53.21	0.31	0	0	100


PRAMP RENO Poll.: PRAMP RENO-CH4[ppm] 01-04-2022 00:00 - 30-04-2022 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)
47 0-2
53 2-5
0 5-10
0 10-20
0 >20.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

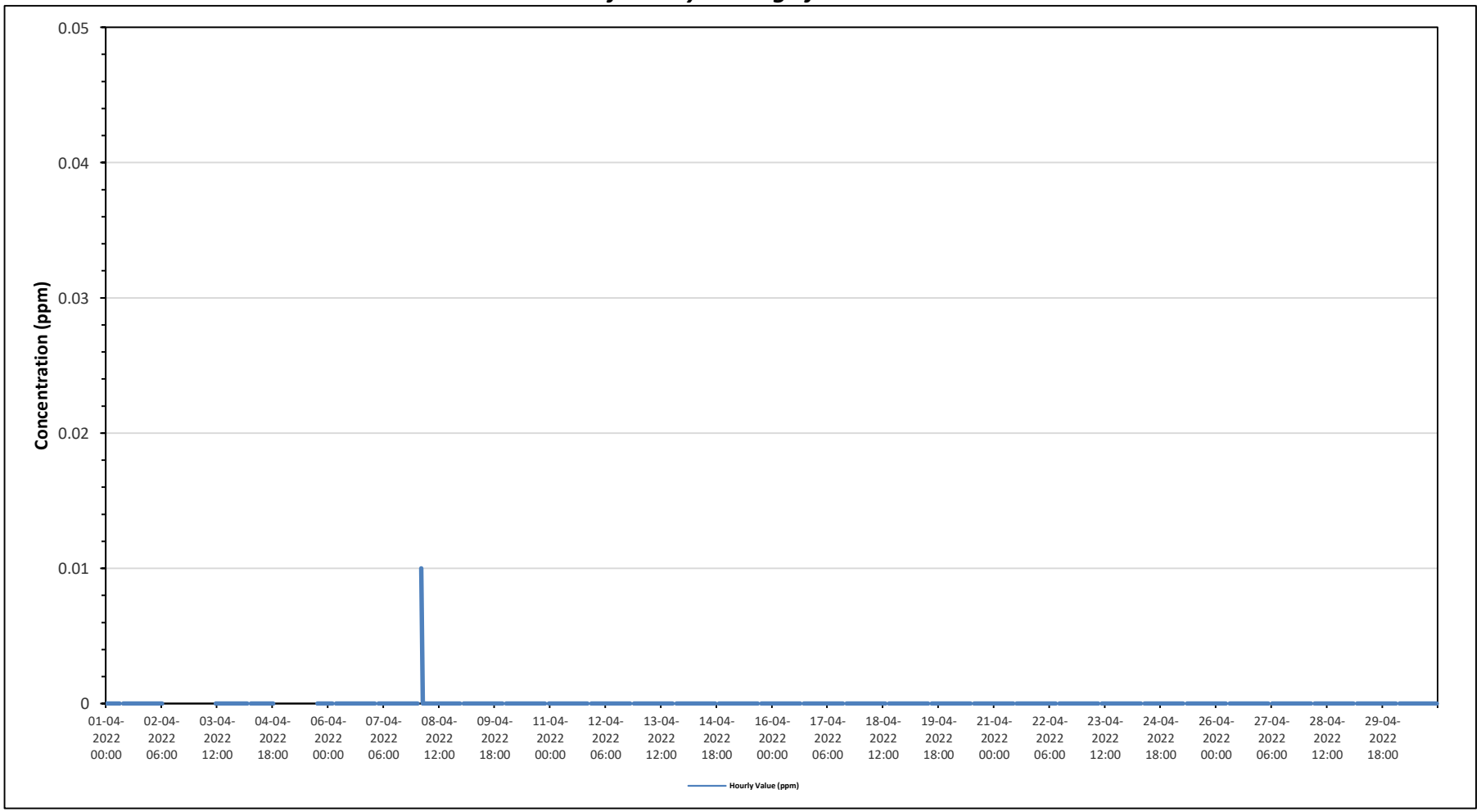
Maximum Hourly Value:	0.01	ppm	on April 8 at hour 2	Hours in Service:	720
Maximum Daily Value:	0.00	ppm	on April 8	Hours of Data:	645
Minimum Hourly Value:	0.00	ppm	on April 1 at hour 0	Hours of Missing Data:	41
Minimum Daily Value:	0.00	ppm	on April 1	Hours of Calibration:	34
Monthly Average:	0.00	ppm		Operational Uptime:	94.3

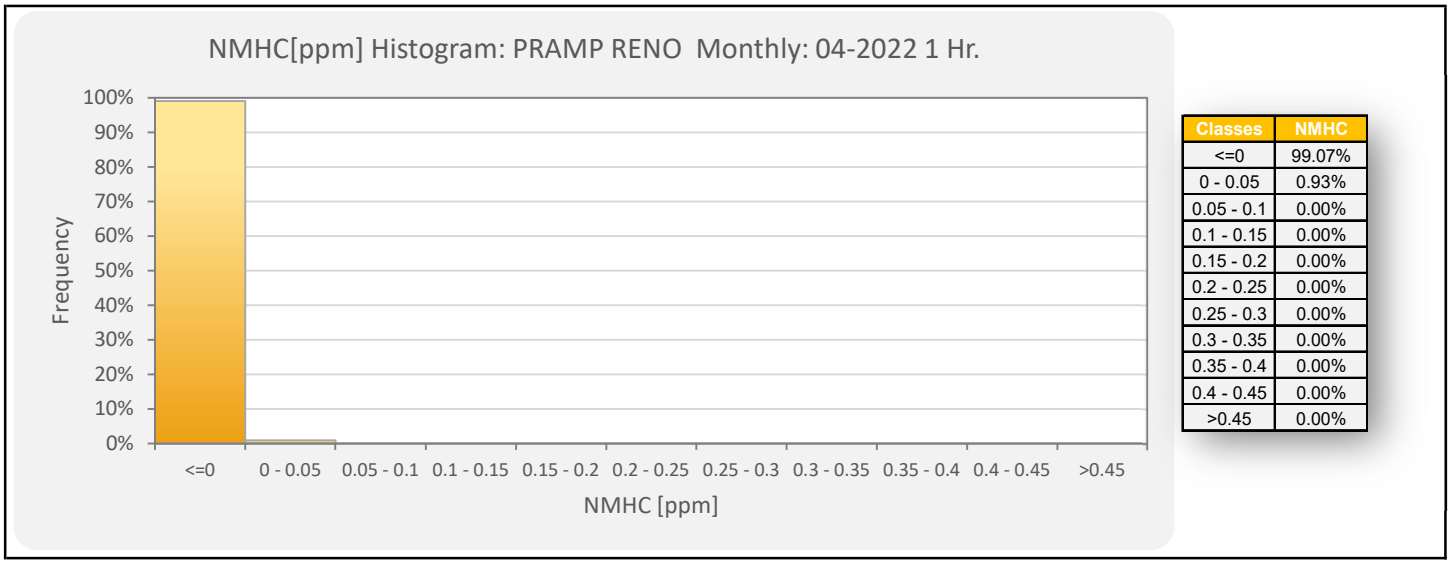
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	0.00	0.00	-
Apr 3	K	K	K	K	K	K	K	K	K	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	-
Apr 4	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	K	K	K	K	K	0.00	0.00	0.00
Apr 5	K	K	K	K	K	K	K	K	0.00	K	K	0.00	C	C	C	C	0.00	Y	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-
Apr 6	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
Apr 7	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
Apr 8	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	0.00	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**
Apr 9	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
Apr 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	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
Apr 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	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
Apr 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 14	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 15	0.00	0.00	0.00	0.00	0.00	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
Apr 16	0.00	0.00	0.00	0.00	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
Apr 17	0.00	0.00	0.00	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
Apr 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 21	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
Apr 22	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
Apr 23	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
Apr 24	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
Apr 25	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
Apr 26	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
Apr 27	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
Apr 28	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
Apr 29	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
Apr 30	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
Diurnal Maximum	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Diurnal Average	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

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

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

Timeseries Chart of Hourly Average for NMHC - Reno Station

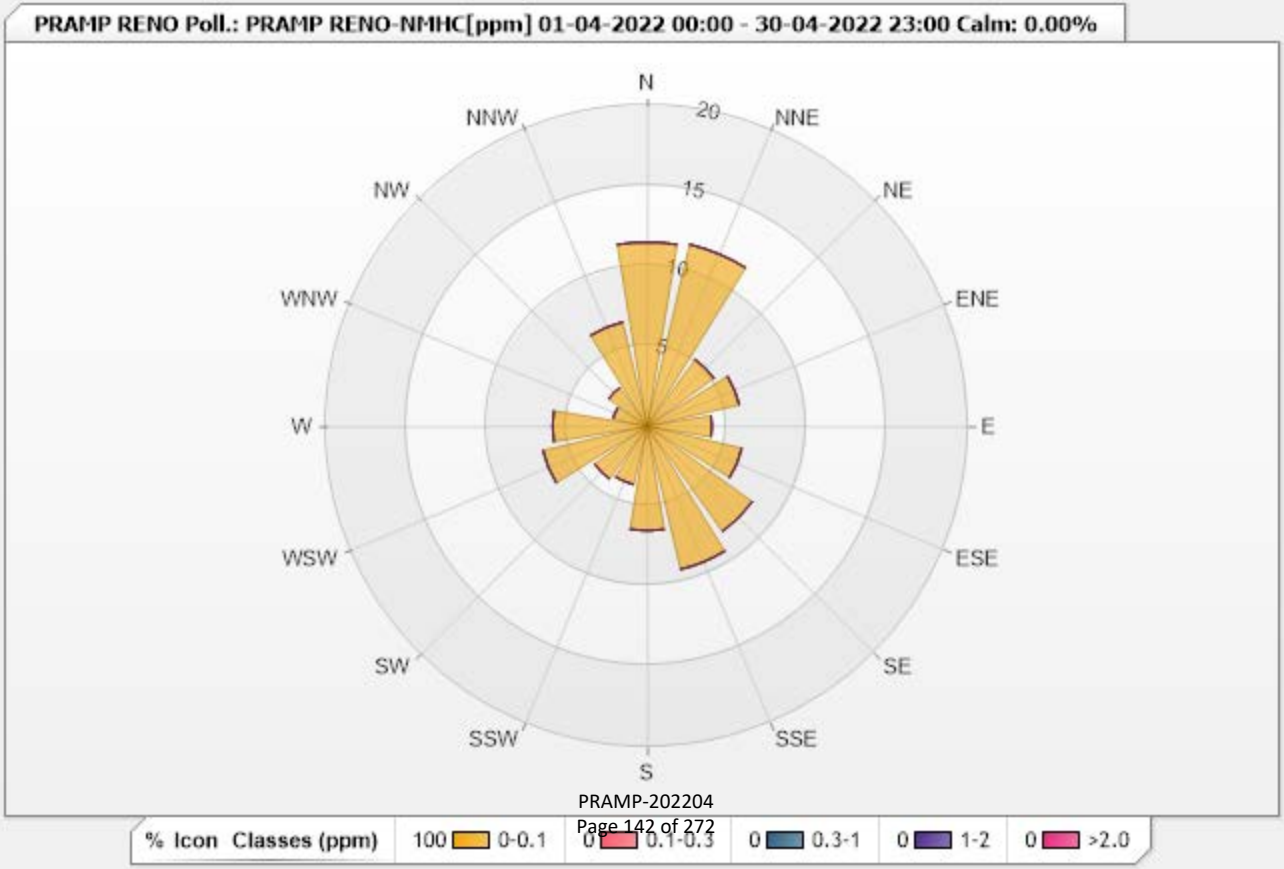




Classes	NMHC
<=0	99.07%
0 - 0.05	0.93%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-NMHC[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 89.58% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	11.47	0	0	0	0	11.47
NNE	11.63	0	0	0	0	11.63
NE	5.12	0	0	0	0	5.12
ENE	5.89	0	0	0	0	5.89
E	4.03	0	0	0	0	4.03
ESE	6.05	0	0	0	0	6.05
SE	8.06	0	0	0	0	8.06
SSE	9.15	0	0	0	0	9.15
S	6.51	0	0	0	0	6.51
SSW	3.72	0	0	0	0	3.72
SW	4.03	0	0	0	0	4.03
WSW	6.67	0	0	0	0	6.67
W	5.89	0	0	0	0	5.89
WNW	2.17	0	0	0	0	2.17
NW	2.95	0	0	0	0	2.95
NNW	6.67	0	0	0	0	6.67
Summary	100	0	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-NMHC[ppm] 01-04-2022 00:00 - 30-04-2022 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
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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

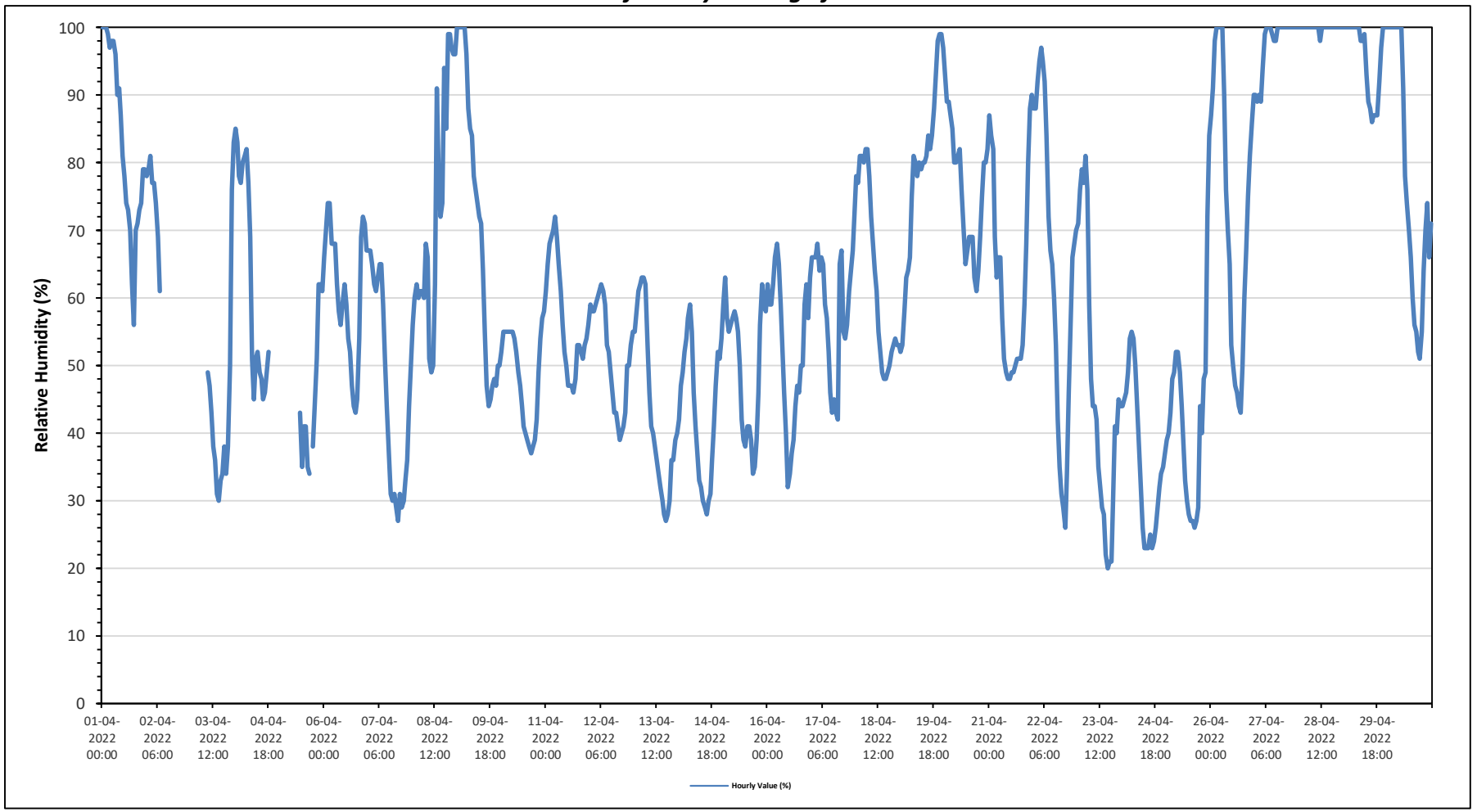
Maximum Hourly Value:	100	%	on April 1 at hour 0	Hours in Service:	720
Maximum Daily Value:	99.9	%	on April 28	Hours of Data:	679
Minimum Hourly Value:	20	%	on April 23 at hour 16	Hours of Missing Data:	41
Minimum Daily Value:	36.3	%	on April 24	Hours of Calibration:	0
Monthly Average:	63.0	%		Operational 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			
Apr 1	**100**	**100**	**100**	99	97	98	98	96	90	91	87	81	78	74	73	70	62	56	70	71	73	74	79	79	56	**100**	83.2
Apr 2	78	79	81	77	77	74	69	61	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	61	81	-
Apr 3	K	K	K	K	K	K	K	K	K	49	47	43	38	36	31	30	33	34	38	34	38	50	76	83	30	83	-
Apr 4	85	83	78	77	80	81	82	77	69	51	45	51	52	49	48	45	46	49	52	K	K	K	K	K	45	85	63.2
Apr 5	K	K	K	K	K	K	K	K	58	K	K	43	35	41	41	35	34	Y	38	44	51	62	62	61	34	62	-
Apr 6	66	70	74	74	68	68	68	62	58	56	59	62	59	54	52	47	44	43	45	54	69	72	71	67	43	74	60.9
Apr 7	67	67	65	62	61	63	65	65	59	51	44	37	31	30	31	29	27	31	29	30	33	36	44	50	27	67	46.1
Apr 8	56	60	62	60	61	61	60	68	66	51	49	50	62	91	78	72	74	94	85	99	99	97	96	96	49	99	72.8
Apr 9	**100**	**100**	**100**	**100**	**100**	96	88	85	84	78	76	74	72	71	64	55	47	44	45	47	48	47	50	50	44	**100**	71.7
Apr 10	52	55	55	55	55	55	55	54	52	49	47	44	41	40	39	38	37	38	39	42	49	54	57	58	37	58	48.3
Apr 11	61	65	68	69	70	72	69	65	61	56	52	50	47	47	47	46	48	53	53	52	51	53	54	56	46	72	56.9
Apr 12	59	58	58	59	60	61	62	61	59	53	52	49	46	43	43	41	39	40	41	43	50	50	53	55	39	62	51.5
Apr 13	55	58	61	62	63	63	62	53	46	41	40	38	36	34	32	30	28	27	28	30	36	36	39	40	27	63	43.3
Apr 14	42	47	49	52	54	57	59	55	46	41	37	33	32	30	29	28	30	31	36	41	47	52	51	54	28	59	43.0
Apr 15	59	63	57	55	56	57	58	57	55	50	42	39	38	41	41	39	34	35	39	46	56	62	59	58	34	63	49.8
Apr 16	62	59	59	62	66	68	65	59	53	46	40	32	34	37	39	44	47	46	50	50	59	62	57	63	32	68	52.5
Apr 17	66	66	66	68	64	66	65	59	57	52	46	43	45	43	42	65	67	55	54	56	61	64	67	72	42	72	58.7
Apr 18	78	77	81	81	80	82	82	78	72	68	64	61	55	52	49	48	48	49	50	52	53	54	53	53	48	82	63.3
Apr 19	52	53	58	63	64	66	75	81	80	78	80	79	80	80	81	84	82	84	88	93	98	99	99	97	52	99	78.9
Apr 20	93	89	89	87	85	80	80	81	82	76	70	65	67	69	69	69	63	61	64	69	75	80	80	82	61	93	76.0
Apr 21	87	84	82	69	63	66	66	57	51	49	48	48	49	49	50	51	51	51	53	59	68	80	88	90	48	90	62.9
Apr 22	88	88	92	95	97	95	92	84	72	67	65	60	53	42	35	31	29	26	34	46	56	66	68	70	26	97	64.6
Apr 23	71	76	79	77	81	76	59	48	44	44	42	35	32	29	28	22	**20**	21	21	30	41	40	45	44	**20**	81	46.0
Apr 24	44	45	46	49	54	55	54	50	44	38	32	26	23	23	23	25	23	24	26	29	32	34	35	37	23	55	36.3
Apr 25	39	40	43	48	49	52	52	49	44	38	33	30	28	27	27	26	27	29	44	40	48	49	72	84	26	84	42.4
Apr 26	87	91	98	**100**	**100**	**100**	**100**	90	76	70	65	53	50	47	46	44	43	50	60	67	75	81	86	90	43	**100**	73.7
Apr 27	90	89	90	89	94	99	**100**	**100**	**100**	99	98	98	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	89	**100**	97.8
Apr 28	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	**100**	**99.9**
Apr 29	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	98	98	99	93	89	88	86	87	87	87	92	97	**100**	**100**	**100**	86	**100**	95.9
Apr 30	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	91	78	74	70	66	60	56	55	52	51	55	64	70	74	66	71	51	**100**	77.2
Diurnal Maximum	100	100	100	100	100	100	100	100	100	100	100	99	100	100	100	100	100	100	100	100	100	100	100	100			
Diurnal Average	72.8	73.6	74.7	74.6	75.0	75.4	74.5	71.3	66.8	61.4	58.3	54.9	53.2	52.7	51.1	50.2	49.0	50.3	52.6	56.4	61.9	65.3	68.1	70.0			

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

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

Timeseries Chart of Hourly Average for RH - Reno Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

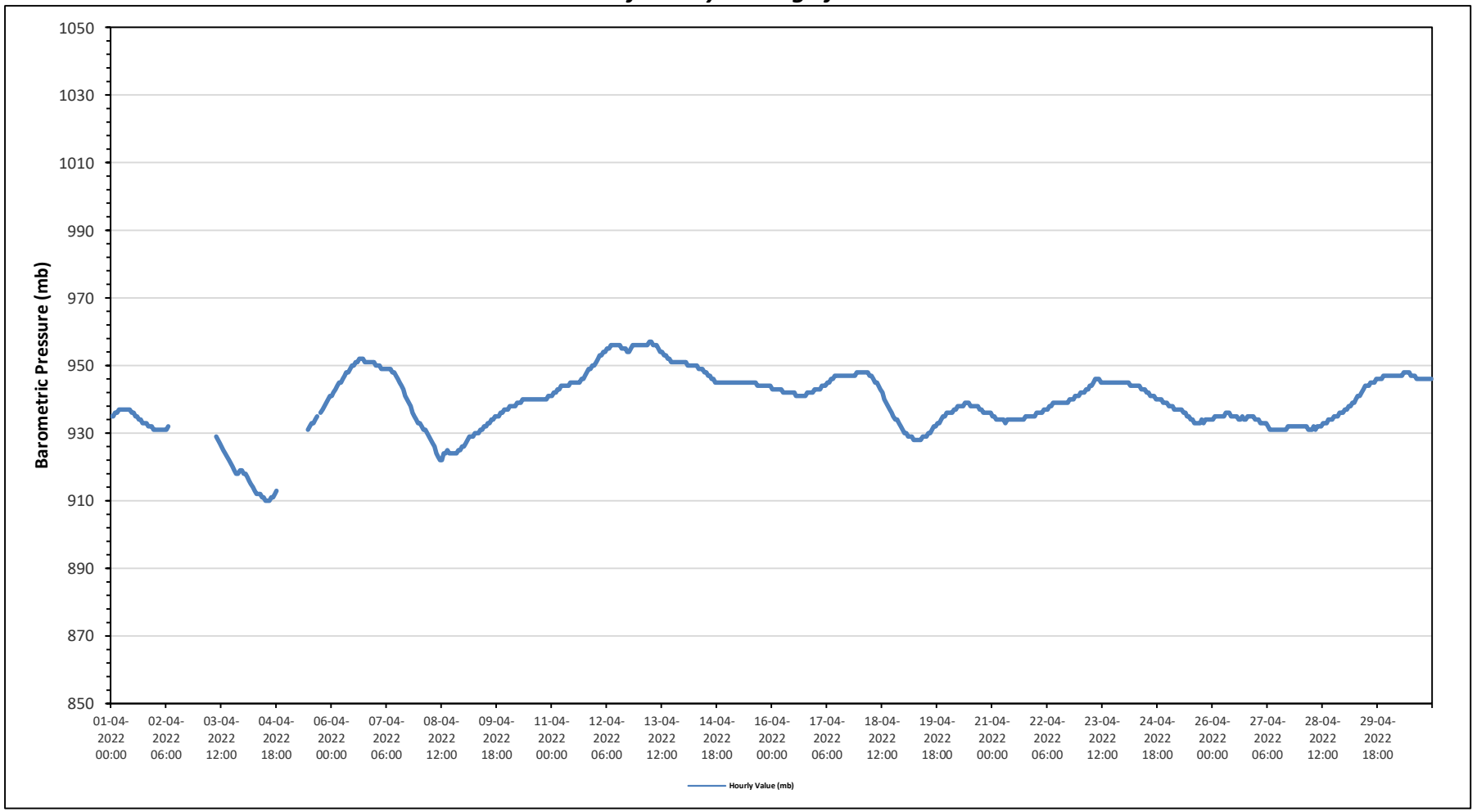
Maximum Hourly Value:	957	mb	on April 13 at hour 5	Hours in Service:	720
Maximum Daily Value:	955	mb	on April 12	Hours of Data:	679
Minimum Hourly Value:	910	mb	on April 4 at hour 12	Hours of Missing Data:	41
Minimum Daily Value:	913	mb	on April 4	Hours of Calibration:	0
Monthly Average:	939	mb		Operational Uptime:	94.3

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Apr 1	935	935	936	936	937	937	937	937	937	937	937	936	936	935	935	934	934	933	933	933	932	932	932	931	931	937	935
Apr 2	931	931	931	931	931	931	931	932	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	931	932	-
Apr 3	K	K	K	K	K	K	K	K	K	929	928	927	926	925	924	923	922	921	920	919	918	918	919	919	918	929	-
Apr 4	918	918	917	916	915	914	913	912	912	912	911	911	**910**	**910**	**910**	911	911	912	913	K	K	K	K	K	**910**	918	913
Apr 5	K	K	K	K	K	K	K	K	928	K	K	931	932	933	933	934	935	Y	936	937	938	939	940	941	928	941	-
Apr 6	941	942	943	944	945	945	946	947	948	948	949	950	950	951	951	952	952	952	951	951	951	951	951	951	941	952	948
Apr 7	950	950	950	949	949	949	949	949	949	948	948	947	946	945	944	943	941	940	939	938	936	935	934	933	933	950	944
Apr 8	933	932	931	931	930	929	928	927	926	924	923	922	922	924	924	925	924	924	924	924	924	925	925	926	922	933	926
Apr 9	926	927	928	929	929	929	930	930	930	931	931	932	932	933	933	934	934	935	935	935	936	936	937	937	926	937	932
Apr 10	937	938	938	938	938	939	939	939	940	940	940	940	940	940	940	940	940	940	940	940	940	940	941	941	937	941	940
Apr 11	941	942	942	943	943	944	944	944	944	944	945	945	945	945	945	945	946	946	947	948	949	949	950	950	941	950	945
Apr 12	951	952	953	953	954	954	955	955	956	956	956	956	956	956	955	955	955	954	954	955	956	956	956	956	951	956	**955**
Apr 13	956	956	956	956	956	**957**	**957**	956	956	956	955	954	954	953	953	952	952	951	951	951	951	951	951	951	951	**957**	954
Apr 14	951	951	950	950	950	950	950	950	949	949	949	948	948	947	947	946	946	945	945	945	945	945	945	945	945	951	948
Apr 15	945	945	945	945	945	945	945	945	945	945	945	945	945	945	945	945	944	944	944	944	944	944	944	944	944	945	945
Apr 16	943	943	943	943	943	943	942	942	942	942	942	942	942	941	941	941	941	941	941	942	942	942	942	943	941	943	942
Apr 17	943	943	943	944	944	944	945	945	946	946	947	947	947	947	947	947	947	947	947	947	947	947	948	948	943	948	946
Apr 18	948	948	948	948	948	947	947	946	945	945	944	943	942	940	939	938	937	936	935	934	934	933	932	931	931	948	941
Apr 19	930	930	929	929	929	928	928	928	928	928	929	929	929	930	930	931	932	932	933	933	934	935	935	936	928	936	931
Apr 20	936	936	936	937	937	938	938	938	938	939	939	939	938	938	938	938	938	937	937	936	936	936	936	936	936	939	937
Apr 21	935	935	934	934	934	934	934	933	934	934	934	934	934	934	934	934	934	934	935	935	935	935	935	935	933	935	934
Apr 22	936	936	936	936	937	937	937	938	938	939	939	939	939	939	939	939	939	939	940	940	940	941	941	941	936	941	939
Apr 23	942	942	942	943	943	944	944	945	946	946	946	945	945	945	945	945	945	945	945	945	945	945	945	945	942	946	945
Apr 24	945	945	945	944	944	944	944	944	944	943	943	943	942	942	941	941	941	940	940	940	940	939	939	939	939	945	942
Apr 25	938	938	938	937	937	937	937	937	936	936	935	935	934	934	933	933	933	933	934	933	934	934	934	934	933	938	935
Apr 26	934	935	935	935	935	935	935	936	936	936	935	935	935	935	934	934	935	934	934	935	935	935	935	934	934	936	935
Apr 27	934	934	933	933	933	933	932	931	931	931	931	931	931	931	931	931	931	932	932	932	932	932	932	932	931	934	932
Apr 28	932	932	932	932	931	931	931	932	931	932	932	932	933	933	933	934	934	934	935	935	935	936	936	936	931	936	933
Apr 29	937	937	938	938	939	939	940	941	941	942	943	944	944	944	945	945	945	946	946	946	946	947	947	947	937	947	943
Apr 30	947	947	947	947	947	947	947	947	948	948	948	948	947	947	947	946	946	946	946	946	946	946	946	946	946	948	947
Diurnal Maximum	956	956	956	956	956	957	957	956	956	956	956	956	956	956	955	955	955	954	954	955	956	956	956	956			
Diurnal Average	939	939	939	939	939	939	939	940	939	940	939	939	939	939	938	938	938	938	938	939	939	939	940	940			

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



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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

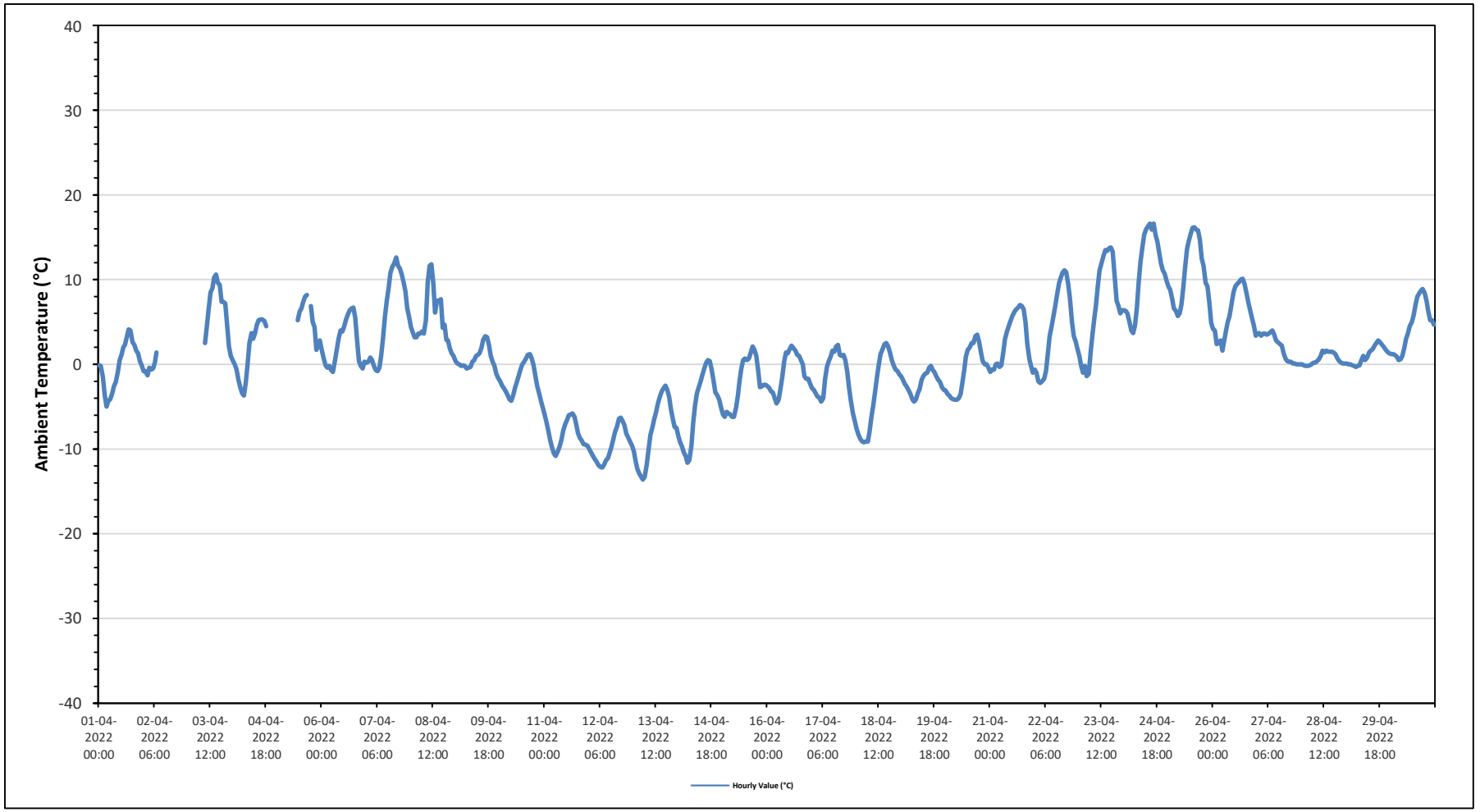
Maximum Hourly Value:	16.6	°C	on April 24 at hour 14	Hours in Service:	720
Maximum Daily Value:	10.9	°C	on April 24	Hours of Data:	679
Minimum Hourly Value:	-13.6	°C	on April 13 at hour 5	Hours of Missing Data:	41
Minimum Daily Value:	-9.6	°C	on April 12	Hours of Calibration:	0
Monthly Average:	1.0	°C		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			
Apr 1	-0.1	-0.2	-1.5	-3.6	-5	-4.3	-4.1	-3.5	-2.6	-2.1	-0.9	0.5	1.1	2	2.3	3.2	4.1	4	2.6	2.3	1.6	1.3	0.4	-0.1	-5.0	4.1	-0.1
Apr 2	-0.8	-0.8	-1.3	-0.4	-0.6	-0.5	0.2	1.4	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-1.3	1.4	-
Apr 3	K	K	K	K	K	K	K	K	K	2.5	4.5	6.6	8.5	9	10.3	10.6	9.6	9.4	7.4	7.4	7.2	4.7	2.1	1	1.0	10.6	-
Apr 4	0.5	0	-0.6	-1.8	-2.7	-3.4	-3.7	-2.2	0	2.5	3.7	3	3.6	4.6	5.2	5.3	5.3	5.1	4.5	K	K	K	K	K	-3.7	5.3	1.5
Apr 5	K	K	K	K	K	K	K	K	1.4	K	K	5.2	6.2	6.6	7.4	8	8.2	Y	6.9	5	4.4	1.7	2.4	2.8	1.4	8.2	-
Apr 6	1.6	0.7	-0.1	-0.4	-0.2	-0.7	-0.9	0.3	1.6	3.1	4	3.9	4.5	5.3	5.9	6.4	6.6	6.7	5.5	2.8	0.4	-0.2	-0.5	0.3	-0.9	6.7	2.4
Apr 7	0.2	0.3	0.8	0.5	-0.2	-0.7	-0.8	-0.4	1.1	3.2	5.6	7.5	9	10.8	11.5	11.9	12.6	11.6	11.3	10.6	9.7	8.6	6.6	5.6	-0.8	12.6	5.7
Apr 8	4.4	3.7	3.2	3.2	3.6	3.6	3.9	3.6	5.2	9.7	11.6	11.8	9.6	6.1	7.5	7.5	7.7	4.3	4.7	2.9	2.8	1.9	1.3	1	1.0	11.8	5.2
Apr 9	0.4	0.1	0	-0.2	-0.1	-0.2	-0.5	-0.4	-0.3	0.3	0.5	1	1.1	1.3	1.9	2.9	3.3	3.2	2.3	1	0.3	-0.2	-1.1	-1.6	-1.6	3.3	0.6
Apr 10	-2	-2.5	-2.8	-3.2	-3.6	-4.1	-4.3	-3.7	-2.8	-2.1	-1.4	-0.6	0	0.3	0.7	1.1	1.2	0.7	-0.1	-1.4	-2.6	-3.4	-4.3	-5.1	-5.1	1.2	-1.9
Apr 11	-5.9	-6.8	-7.8	-8.9	-9.8	-10.5	-10.8	-10.3	-9.7	-8.9	-7.8	-7.1	-6.6	-6	-5.9	-5.8	-6.2	-7.2	-8.1	-8.7	-9	-9.4	-9.5	-9.6	-10.8	-5.8	-8.2
Apr 12	-10	-10.4	-10.8	-11.2	-11.5	-11.9	-12.1	-12.2	-11.8	-11.3	-11.1	-10.5	-9.8	-8.9	-8	-7.3	-6.4	-6.3	-6.7	-7.2	-8.2	-8.6	-9.1	-9.6	-12.2	-6.3	-9.6
Apr 13	-10.3	-11.5	-12.4	-12.9	-13.3	**-13.6**	-13.3	-11.8	-10	-8.3	-7.5	-6.5	-5.7	-4.7	-3.9	-3.2	-2.8	-2.5	-3	-3.8	-5.3	-6.4	-7.4	-7.5	**-13.6**	-2.5	-7.8
Apr 14	-8.4	-9.2	-9.7	-10.4	-10.8	-11.6	-11.3	-9.6	-6.8	-4.8	-3.4	-2.7	-2	-1.2	-0.5	0.2	0.5	0.4	-0.6	-1.9	-3.3	-3.6	-4.2	-5.1	-11.6	0.5	-5.0
Apr 15	-5.9	-6.2	-5.6	-5.8	-5.9	-6.2	-6.2	-5.1	-3.7	-2	-0.5	0.5	0.7	0.5	0.7	1.4	2.1	1.7	1	-0.7	-2.7	-2.6	-2.4	-2.4	-6.2	2.1	-2.3
Apr 16	-2.6	-2.8	-3.2	-3.3	-4	-4.6	-4.2	-2.9	-1.5	0.3	1.4	1.3	1.8	2.2	1.9	1.6	1.1	1	0.5	0	-1.4	-1.7	-1.7	-2.3	-4.6	2.2	-1.0
Apr 17	-2.8	-3	-3.4	-3.8	-3.9	-4.4	-4	-1.7	-0.3	0.4	0.9	1.6	1.5	2.1	2.3	1.1	1	1.1	0.5	-0.8	-2.7	-4.3	-5.8	-6.7	-6.7	2.3	-1.5
Apr 18	-7.6	-8.3	-8.8	-9.1	-9.2	-9.1	-9.1	-8	-6.3	-4.9	-3.3	-1.6	-0.1	1.2	1.8	2.4	2.5	2.1	1.4	0.5	-0.1	-0.6	-0.8	-1.2	-9.2	2.5	-3.2
Apr 19	-1.4	-1.8	-2.3	-2.6	-3	-3.5	-4.1	-4.4	-4.1	-3.4	-2.9	-1.9	-1.4	-1.1	-1	-0.4	-0.2	-0.7	-0.9	-1.4	-1.8	-2.1	-2.7	-3	-4.4	-0.2	-2.2
Apr 20	-3.1	-3.5	-3.7	-4	-4.1	-4.2	-4.2	-4	-3.5	-2.1	-0.6	0.9	1.7	2	2.5	2.5	3.3	3.5	2.7	1.5	0.4	0	0	-0.4	-4.2	3.5	-0.7
Apr 21	-0.9	-0.6	-0.6	0	0.1	-0.3	-0.1	1.3	3	3.8	4.5	5.1	5.7	6.2	6.5	6.7	7	6.9	6.5	5	2.4	0.6	-0.2	-1	-1.0	7.0	2.8
Apr 22	-0.6	-1	-2	-2.2	-2	-1.7	-0.8	1.2	3.3	4.4	5.6	6.8	8.2	9.6	10.3	10.8	11.1	10.9	9.6	7.9	5	3.3	2.7	1.8	-2.2	11.1	4.3
Apr 23	1	-0.2	-1	-0.2	-1.4	-1.1	1.4	3.5	5.4	6.9	9.1	11.1	12	12.8	13.5	13.4	13.7	13.8	13.3	10.6	7.5	6.9	6	6.4	-1.4	13.8	6.9
Apr 24	6.4	6.3	6	5.1	4	3.7	4.6	6.6	9.7	12.1	13.8	15.3	16	16.3	**16.6**	15.9	**16.6**	15.3	14.5	13.2	11.9	11.1	10.7	9.9	3.7	**16.6**	**10.9**
Apr 25	9.2	8.8	7.8	6.6	6.3	5.7	6	7.1	9.1	11.5	13.6	14.6	15.5	16.1	16.2	15.9	15.8	14.7	12.5	11.6	9.6	9.2	7.3	4.9	4.9	16.2	10.7
Apr 26	4.2	4	2.4	2.5	2.8	1.6	2.7	3.9	5	5.7	7	8.5	9.2	9.5	9.7	10	10.1	9.5	8.5	7.4	6.3	5.4	4.5	3.4	1.6	10.1	6.0
Apr 27	3.6	3.7	3.4	3.6	3.6	3.5	3.6	3.8	4	3.5	2.8	2.6	2.4	2.2	1.3	0.7	0.4	0.3	0.3	0.1	0.1	0	0	0	0.0	4.0	2.1
Apr 28	0	-0.1	-0.2	-0.2	-0.1	0	0.2	0.2	0.4	0.6	1	1.6	1.4	1.6	1.5	1.5	1.5	1.4	1.2	0.7	0.4	0.2	0.1	0.1	-0.2	1.6	0.6
Apr 29	0.1	0	0	-0.1	-0.2	-0.3	-0.2	-0.1	0.5	1	0.5	0.8	1.4	1.6	1.8	2.2	2.5	2.8	2.6	2.3	2	1.7	1.5	1.3	-0.3	2.8	1.1
Apr 30	1.2	1.2	1.1	0.9	0.5	0.6	1	1.9	3	3.6	4.5	5	5.8	7	8	8.3	8.7	8.9	8.4	7.5	6.2	5.2	5.2	4.7	0.5	8.9	4.5
Diurnal Maximum	9.2	8.8	7.8	6.6	6.3	5.7	6.0	7.1	9.7	12.1	13.8	15.3	16.0	16.3	16.6	15.9	16.6	15.3	14.5	13.2	11.9	11.1	10.7	9.9			
Diurnal Average	-1.1	-1.4	-1.9	-2.2	-2.5	-2.8	-2.5	-1.6	-0.4	0.9	2.0	2.9	3.5	4.0	4.4	4.6	4.9	4.4	3.8	2.7	1.5	0.7	0.0	-0.4			

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

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

Timeseries Chart of Hourly Average for AT - Reno Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

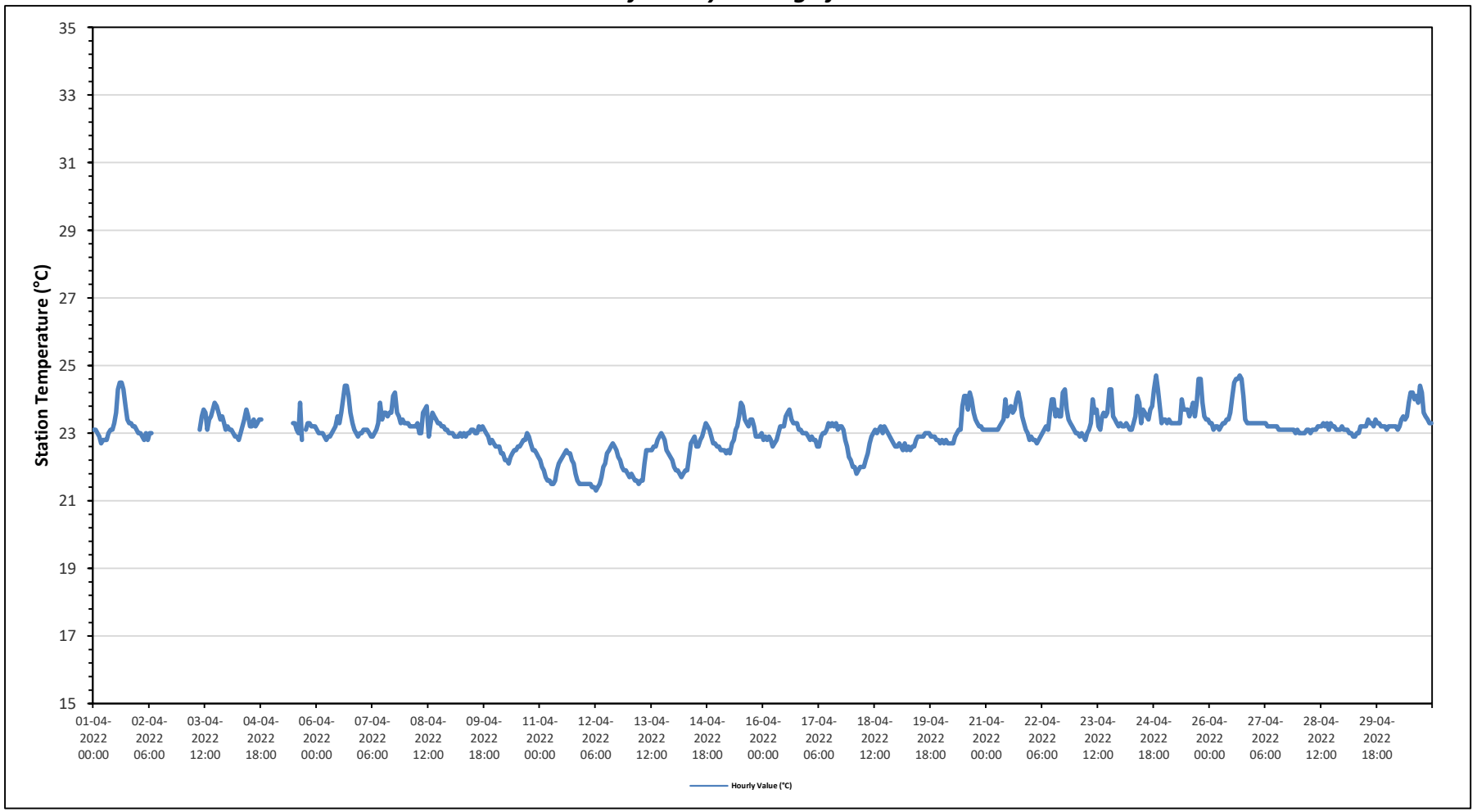
Maximum Hourly Value:	24.7	°C	on April 24 at hour 19	Hours in Service:	720
Maximum Daily Value:	23.6	°C	on April 26	Hours of Data:	679
Minimum Hourly Value:	21.3	°C	on April 12 at hour 6	Hours of Missing Data:	41
Minimum Daily Value:	21.9	°C	on April 11	Hours of Calibration:	0
Monthly Average:	23.1	°C		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			
Apr 1	23.1	23.1	23.0	22.9	22.7	22.8	22.8	22.8	23.0	23.1	23.1	23.3	23.6	24.3	24.5	24.5	24.3	23.8	23.4	23.3	23.3	23.2	23.2	23.1	22.7	24.5	23.3
Apr 2	23.0	23.0	22.9	22.8	23.0	22.8	23.0	23.0	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	22.8	23.0	-
Apr 3	K	K	K	K	K	K	K	K	K	23.1	23.5	23.7	23.6	23.1	23.4	23.5	23.7	23.9	23.8	23.6	23.4	23.5	23.3	23.1	23.1	23.9	-
Apr 4	23.2	23.1	23.1	23.0	22.9	22.9	22.8	23.0	23.2	23.4	23.7	23.5	23.2	23.2	23.4	23.2	23.3	23.4	23.4	K	K	K	K	K	22.8	23.7	23.2
Apr 5	K	K	K	K	K	K	K	K	22.6	K	K	23.3	23.3	23.1	23.0	23.9	22.8	Y	23.1	23.3	23.3	23.2	23.2	23.2	22.6	23.9	-
Apr 6	23.1	23.0	23.0	23.0	22.9	22.8	22.9	22.9	23.0	23.1	23.2	23.5	23.3	23.6	24.0	24.4	24.4	24.1	23.6	23.3	23.1	23.0	22.9	23.0	22.8	24.4	23.3
Apr 7	23.0	23.1	23.1	23.1	23.0	22.9	22.9	23.0	23.1	23.3	23.9	23.4	23.6	23.6	23.5	23.6	23.6	24.1	24.2	23.6	23.5	23.3	23.4	23.3	22.9	24.2	23.4
Apr 8	23.3	23.3	23.2	23.2	23.2	23.2	23.3	23.0	23.0	23.6	23.7	23.8	22.9	23.3	23.6	23.5	23.4	23.3	23.3	23.2	23.2	23.1	23.1	23.0	22.9	23.8	23.3
Apr 9	23.0	23.0	22.9	22.9	22.9	23.0	22.9	23.0	22.9	23.0	23.0	23.1	23.1	23.0	23.0	23.2	23.1	23.2	23.1	23.0	22.9	22.7	22.8	22.7	22.7	23.2	23.0
Apr 10	22.6	22.6	22.6	22.4	22.4	22.2	22.2	22.1	22.3	22.4	22.5	22.5	22.6	22.6	22.7	22.8	22.8	23.0	22.9	22.7	22.5	22.5	22.4	22.3	22.1	23.0	22.5
Apr 11	22.2	22.0	21.9	21.7	21.6	21.6	21.5	21.5	21.6	21.9	22.1	22.2	22.3	22.4	22.5	22.4	22.4	22.2	22.1	21.8	21.6	21.5	21.5	21.5	21.5	22.5	21.9
Apr 12	21.5	21.5	21.5	21.5	21.4	21.4	**21.3**	21.4	21.5	21.7	22.0	22.1	22.4	22.5	22.6	22.7	22.6	22.5	22.3	22.2	22.0	21.9	21.9	21.8	**21.3**	22.7	21.9
Apr 13	21.7	21.8	21.7	21.6	21.6	21.5	21.6	21.6	22.1	22.5	22.5	22.5	22.5	22.6	22.6	22.8	22.9	23.0	22.9	22.8	22.5	22.4	22.3	22.2	21.5	23.0	22.3
Apr 14	22.0	21.9	21.9	21.8	21.7	21.8	21.9	21.9	22.3	22.7	22.8	22.9	22.6	22.6	22.8	22.9	23.1	23.3	23.2	23.1	22.9	22.7	22.7	22.6	21.7	23.3	22.5
Apr 15	22.6	22.5	22.5	22.5	22.4	22.5	22.4	22.7	22.8	23.1	23.2	23.5	23.9	23.8	23.4	23.3	23.2	23.4	23.4	23.2	22.9	22.9	22.9	23.0	22.4	23.9	23.0
Apr 16	22.8	22.9	22.8	22.9	22.8	22.6	22.7	22.8	23.0	23.2	23.2	23.2	23.5	23.6	23.7	23.4	23.3	23.3	23.3	23.1	23.1	23.0	23.0	23.0	22.6	23.7	23.1
Apr 17	22.9	22.8	22.9	22.8	22.8	22.6	22.6	22.9	23.0	23.0	23.1	23.3	23.2	23.3	23.2	23.3	23.1	23.2	23.2	23.1	22.8	22.6	22.3	22.2	22.2	23.3	22.9
Apr 18	22.0	22.0	21.8	21.9	22.0	22.0	22.0	22.2	22.4	22.7	22.9	23.0	23.1	23.0	23.1	23.2	23.0	23.2	23.1	23.0	22.9	22.8	22.7	22.6	21.8	23.2	22.6
Apr 19	22.6	22.7	22.6	22.5	22.7	22.5	22.6	22.5	22.6	22.6	22.8	22.9	22.9	22.9	22.9	23.0	23.0	23.0	22.9	22.9	22.9	22.8	22.8	22.7	22.5	23.0	22.8
Apr 20	22.8	22.7	22.8	22.7	22.7	22.7	22.7	22.9	23.0	23.1	23.1	23.8	24.1	24.1	23.7	24.2	24.0	23.6	23.4	23.3	23.2	23.2	23.1	23.1	22.7	24.2	23.3
Apr 21	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.2	23.3	23.4	24.0	23.5	23.7	23.8	23.6	23.7	24.0	24.2	23.9	23.5	23.3	23.1	23.0	22.8	22.8	24.2	23.4
Apr 22	22.9	22.8	22.8	22.7	22.8	22.9	23.0	23.1	23.2	23.1	23.6	24.0	24.0	23.5	23.7	23.5	23.5	24.2	24.3	23.7	23.4	23.3	23.2	23.1	22.7	24.3	23.3
Apr 23	23.0	23.0	22.9	23.0	22.9	22.8	23.0	23.1	23.3	24.0	23.6	23.7	23.2	23.1	23.5	23.6	23.5	23.6	24.3	24.3	23.5	23.4	23.3	23.2	22.8	24.3	23.4
Apr 24	23.3	23.2	23.2	23.3	23.2	23.1	23.1	23.3	23.5	24.1	23.9	23.3	23.7	23.6	23.5	23.4	23.7	23.8	24.3	**24.7**	24.3	23.8	23.3	23.4	23.1	**24.7**	23.6
Apr 25	23.4	23.3	23.4	23.3	23.3	23.3	23.3	23.3	23.3	24.0	23.7	23.7	23.7	23.5	23.7	23.9	23.5	23.9	24.6	24.6	23.9	23.5	23.4	23.4	23.3	24.6	23.6
Apr 26	23.3	23.3	23.1	23.2	23.2	23.1	23.2	23.3	23.3	23.4	23.4	23.6	24.1	24.5	24.6	24.6	**24.7**	24.6	24.1	23.4	23.3	23.3	23.3	23.3	23.1	**24.7**	**23.6**
Apr 27	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.2	23.2	23.2	23.2	23.2	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.1	23.0	23.3	23.2
Apr 28	23.0	23.0	23.0	23.0	23.1	23.1	23.0	23.1	23.1	23.1	23.2	23.2	23.2	23.3	23.2	23.3	23.1	23.3	23.2	23.2	23.1	23.1	23.1	23.2	23.0	23.3	23.1
Apr 29	23.1	23.1	23.1	23.0	23.0	22.9	22.9	23.0	23.0	23.2	23.2	23.2	23.2	23.4	23.3	23.3	23.2	23.4	23.3	23.3	23.2	23.2	23.2	23.1	22.9	23.4	23.2
Apr 30	23.2	23.2	23.2	23.2	23.2	23.1	23.2	23.4	23.5	23.4	23.5	23.9	24.2	24.2	24.0	24.1	23.9	24.4	24.2	23.6	23.5	23.4	23.3	23.3	23.1	24.4	23.6
Diurnal Maximum	23.4	23.3	23.4	23.3	23.3	23.3	23.3	23.4	23.5	24.1	24.0	24.0	24.2	24.5	24.6	24.6	24.7	24.6	24.6	24.7	24.3	23.8	23.4	23.4			
Diurnal Average	22.8	22.8	22.8	22.7	22.7	22.7	22.7	22.8	22.9	23.1	23.2	23.3	23.3	23.3	23.4	23.5	23.4	23.5	23.4	23.3	23.1	23.0	22.9	22.9			

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 ST - Reno Station



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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

PRECIPITATION in mm

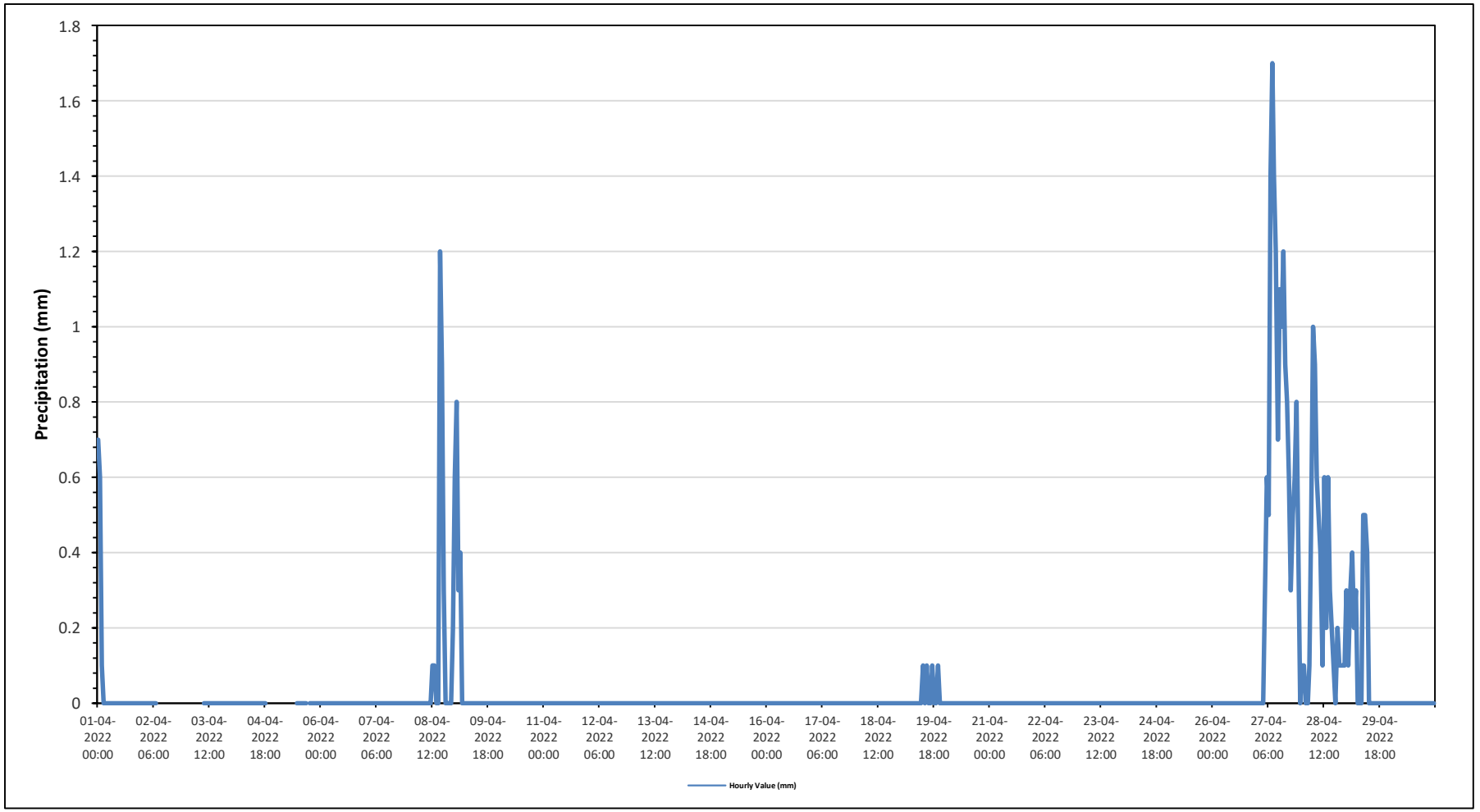
Maximum Hourly Value:	1.7	mm	on April 27 at hour 8	Hours in Service:	720
Maximum Daily Value:	16.0	mm	on April 27	Hours of Data:	679
Minimum Hourly Value:	0.0	mm	on April 1 at hour 3	Hours of Missing Data:	41
Minimum Daily Value:	0.0	mm	on April 2	Hours of Calibration:	0
Monthly Total:	32.6	mm		Operational Uptime:	94.3

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Total
Apr 1	0.7	0.6	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	0.7	1.4
Apr 2	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	0.0
Apr 3	K	K	K	K	K	K	K	K	K	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	K	K	K	K	K	0.0	0.0	0.0
Apr 5	K	K	K	K	K	K	K	K	0	K	K	0	0	0	0	0	0	Y	0	0	0	0	0	0	0.0	0.0	0.0
Apr 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 8	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0	1.2	0.9	0.3	0	0	0	0	0.2	0.0	1.2	2.8
Apr 9	0.6	0.8	0.3	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.8	2.1
Apr 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Apr 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
Apr 19	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0	0	0.1	0	0	0.1	0	0	0	0.0	0.1	0.4
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 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
Apr 27	0	0	0	0	0.3	0.6	0.5	1.4	**1.7**	1.4	1.2	0.7	1.1	1	1.2	0.9	0.8	0.6	0.3	0.5	0.6	0.8	0.4	0	0.0	**1.7**	**16.0**
Apr 28	0.1	0.1	0	0	0.1	0.5	1	0.9	0.6	0.5	0.4	0.1	0.6	0.2	0.6	0.3	0.2	0.1	0	0.2	0.1	0.1	0.1	0.1	0.0	1.0	6.9
Apr 29	0.3	0.1	0.3	0.4	0.2	0.3	0	0	0	0.5	0.5	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5	3.0
Apr 30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.7	0.8	0.3	0.4	0.3	0.6	1.0	1.4	1.7	1.4	1.2	0.7	1.1	1.0	1.2	0.9	1.2	0.9	0.3	0.5	0.6	0.8	0.4	0.2			
Diurnal Average	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.1	0.0	0.1	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 Precipitation - Reno Station



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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

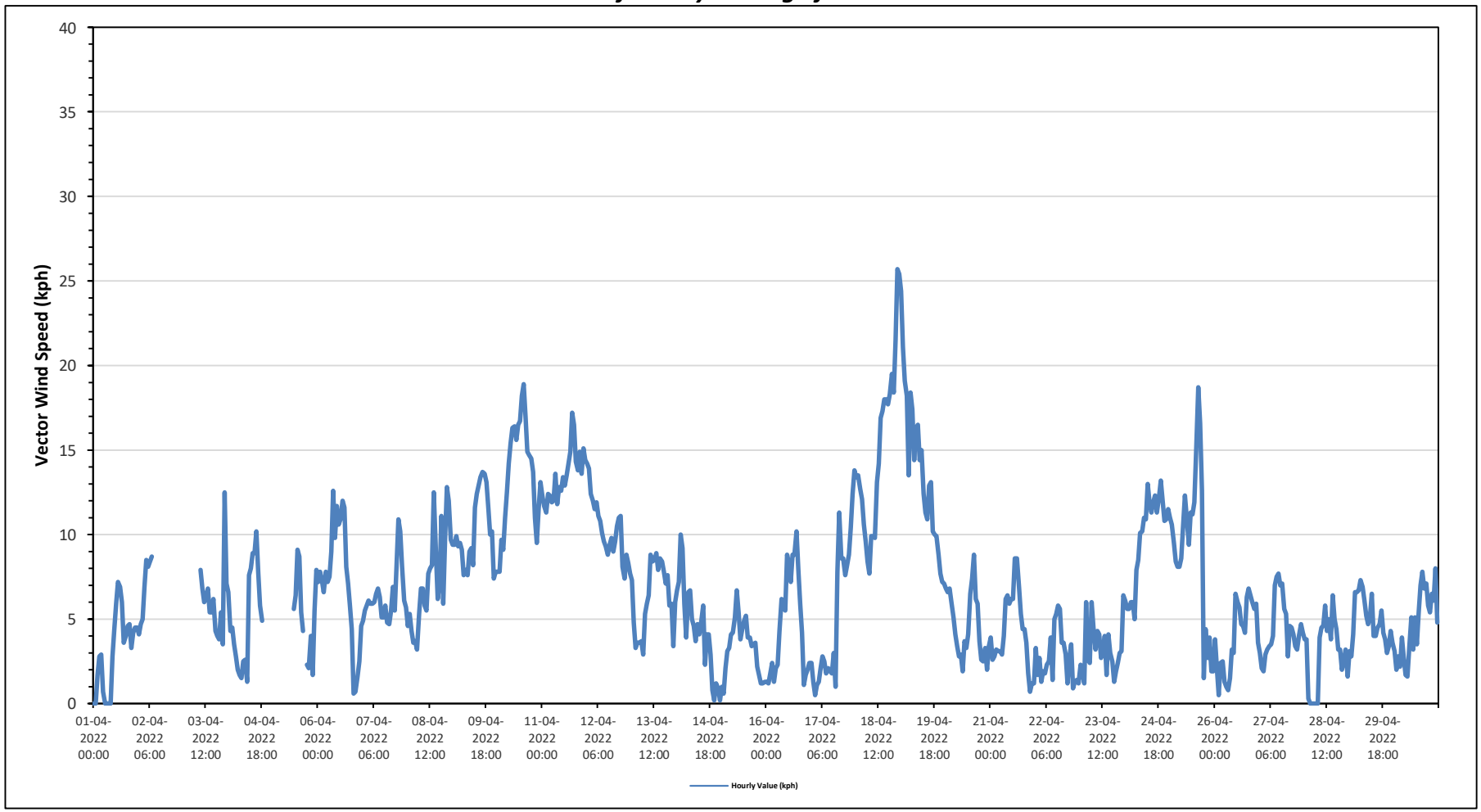
Maximum Hourly Value:	25.7	kph	on April 18 at hour 22	Hours in Service:	720
Maximum Daily Value:	13.6	kph	on April 18	Hours of Data:	679
Minimum Hourly Value:	0.0	kph	on April 1 at hour 0	Hours of Missing Data:	41
Minimum Daily Value:	0.7	kph	on April 20	Hours of Calibration:	0
Monthly Average:	1.7	kph		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			
Apr 1	**0.0**	**0.0**	1.7	2.8	2.9	0.7	**0.0**	**0.0**	**0.0**	**0.0**	2.8	4.4	5.9	7.2	6.9	6.0	3.6	4.0	4.6	4.7	3.3	4.2	4.5	4.5	**0.0**	7.2	2.4
Apr 2	4.1	4.7	5.0	6.9	8.5	8.1	8.4	8.7	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	4.1	8.7	-
Apr 3	K	K	K	K	K	K	K	K	K	7.9	6.8	6.0	6.3	6.8	5.4	5.4	6.2	4.3	4.0	3.8	5.4	3.5	12.5	7.1	3.5	12.5	-
Apr 4	6.6	4.3	4.5	3.5	2.8	2.0	1.7	1.5	2.5	2.6	1.3	7.6	8.0	8.9	8.9	10.2	7.8	5.8	4.9	K	K	K	K	K	1.3	10.2	2.1
Apr 5	K	K	K	K	K	K	K	K	5.0	K	K	5.6	6.4	9.1	8.7	5.4	4.3	Y	2.3	2.1	4.0	1.7	5.5	7.9	1.7	9.1	-
Apr 6	7.2	7.8	7.3	6.6	7.8	7.2	7.5	9.0	12.6	9.8	11.7	10.6	10.9	12.0	11.6	8.1	7.1	5.8	4.4	0.6	0.7	1.6	2.5	4.6	0.6	12.6	6.8
Apr 7	4.9	5.5	5.8	6.1	5.9	5.9	6.0	6.5	6.8	6.3	5.1	5.1	5.8	4.8	4.7	5.5	6.9	5.5	8.2	10.9	10.2	8.1	6.1	5.7	4.7	10.9	5.9
Apr 8	4.6	5.3	4.3	3.6	3.7	3.2	5.3	6.8	6.8	5.8	5.5	7.7	8.0	8.2	12.5	9.0	6.2	7.1	11.1	5.9	9.7	12.8	12.0	9.7	3.2	12.8	5.3
Apr 9	9.4	9.4	9.9	9.3	9.5	9.1	7.6	7.9	7.6	9.0	9.2	8.2	11.6	12.4	12.9	13.4	13.7	13.6	13.1	11.6	10.0	10.2	7.4	7.8	7.4	13.7	9.1
Apr 10	7.8	7.8	9.7	9.1	11.0	12.5	14.2	15.4	16.3	16.4	15.6	16.5	16.7	18.2	18.9	17.0	14.9	14.7	14.5	13.7	11.0	9.5	11.5	13.1	7.8	18.9	13.3
Apr 11	12.3	11.7	11.3	12.4	12.3	11.9	12.0	13.6	11.8	12.8	12.6	13.4	12.9	13.5	14.2	14.9	17.2	16.5	14.3	13.8	14.9	13.6	15.1	14.4	11.3	17.2	13.4
Apr 12	14.2	13.9	12.4	12.0	11.5	11.9	11.1	10.8	10.1	9.6	9.3	8.8	9.4	9.8	9.0	9.6	10.5	11.0	11.1	8.1	7.4	8.8	8.3	7.7	7.4	14.2	9.9
Apr 13	7.3	4.8	3.3	3.6	3.6	3.7	2.9	5.3	5.9	6.4	8.8	8.4	8.5	8.9	7.9	8.6	8.4	7.8	7.1	7.6	5.8	5.9	3.4	6.0	2.9	8.9	5.6
Apr 14	6.7	7.2	10.0	9.2	5.9	3.9	6.6	6.7	5.0	4.6	3.7	4.7	4.1	4.8	5.8	2.3	4.1	4.1	2.9	0.8	0.2	1.2	0.9	0.2	0.2	10.0	3.0
Apr 15	1.0	0.6	2.1	3.1	3.3	4.1	4.2	5.1	6.7	5.4	3.8	4.4	4.9	5.2	3.9	3.9	3.4	3.5	3.6	2.2	1.7	1.2	1.2	1.3	0.6	6.7	2.3
Apr 16	1.3	1.2	1.8	2.4	1.3	2.1	2.3	4.3	6.2	5.7	5.5	8.8	8.3	7.2	8.8	8.8	10.2	7.9	5.9	4.2	1.1	1.7	2.0	2.4	1.1	10.2	4.2
Apr 17	2.4	1.3	0.5	1.1	1.3	2.1	2.8	2.5	1.8	2.1	1.9	1.8	3.0	1.0	7.8	11.3	8.6	8.6	7.6	8.2	8.8	10.4	12.4	13.8	0.5	13.8	3.8
Apr 18	13.4	13.5	12.7	12.1	10.6	9.6	8.4	7.7	9.9	9.9	9.8	13.1	14.2	16.9	17.3	18.0	18.0	17.7	18.3	19.5	18.4	21.5	**25.7**	25.4	7.7	**25.7**	**13.6**
Apr 19	24.4	21.1	19.1	18.2	13.5	18.4	17.4	14.4	16.3	16.5	14.4	15.0	12.4	11.3	10.9	12.9	13.1	10.2	10.0	9.9	8.8	7.7	7.2	7.1	7.1	24.4	12.7
Apr 20	6.8	6.6	6.8	6.0	5.1	4.1	3.4	2.8	2.9	1.9	3.7	3.3	4.1	6.5	7.4	8.8	6.2	5.9	3.7	2.6	2.5	3.3	2.0	3.4	1.9	8.8	**0.7**
Apr 21	3.9	2.6	2.8	3.2	3.1	3.1	2.9	4.0	6.2	6.4	5.9	6.2	6.2	8.6	8.6	6.9	5.3	4.4	4.4	3.6	1.8	0.7	1.2	1.2	0.7	8.6	2.7
Apr 22	3.3	1.7	2.7	1.3	1.9	1.8	2.3	2.5	3.9	1.4	5.0	5.3	5.8	5.6	3.6	3.6	2.9	1.2	2.7	3.5	0.9	1.3	1.4	1.2	0.9	5.8	2.5
Apr 23	2.3	1.8	1.2	6.0	2.6	2.4	6.0	4.5	3.2	4.3	4.1	2.7	3.1	4.0	1.7	4.1	3.0	2.5	1.3	1.9	2.4	3.0	3.1	6.4	1.2	6.4	1.1
Apr 24	6.1	5.6	5.6	6.0	6.0	5.0	7.9	8.5	10.1	10.2	11.0	10.9	13.0	11.9	11.3	11.9	12.3	11.3	12.2	13.2	12.0	10.8	10.9	11.5	5.0	13.2	9.6
Apr 25	11.0	10.6	9.5	8.4	8.1	8.1	8.6	10.5	12.3	11.0	9.4	11.3	11.2	11.9	15.0	18.7	16.6	12.6	1.5	4.4	2.7	3.9	1.9	1.9	1.5	18.7	8.6
Apr 26	3.8	2.1	0.5	2.4	2.5	1.3	1.0	0.8	1.5	3.2	3.0	6.5	6.0	5.7	4.7	4.6	4.2	6.3	6.8	6.4	6.0	5.6	5.9	3.6	0.5	6.8	2.9
Apr 27	3.0	2.1	1.9	2.9	3.2	3.4	3.5	4.0	7.0	7.5	7.7	7.0	7.1	5.6	5.3	2.8	4.6	4.5	4.1	3.4	3.2	4.0	4.7	4.2	1.9	7.7	2.9
Apr 28	3.8	3.8	0.3	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	3.9	4.5	4.6	5.8	4.3	5.0	3.8	6.4	5.0	4.4	3.2	3.2	2.0	2.5	3.2	1.6	**0.0**	6.4	2.7
Apr 29	3.1	2.8	4.1	6.6	6.6	6.7	7.3	6.9	6.1	5.2	4.7	5.1	6.5	4.0	4.0	4.5	4.7	5.5	4.2	3.8	3.0	3.4	4.3	3.6	2.8	7.3	4.8
Apr 30	3.1	2.0	2.8	2.2	3.9	2.7	1.7	1.6	3.3	5.1	3.2	5.1	3.5	5.4	7.0	7.8	6.8	7.1	5.8	5.4	6.5	6.1	8.0	4.8	1.6	8.0	3.9
Diurnal Maximum	24	21	19	18	14	18	17	15	16	17	16	17	17	18	19	19	18	18	18	20	18	22	26	25			
Diurnal Average	6.4	5.8	5.7	6.0	5.7	5.5	5.8	6.2	6.8	6.8	6.8	7.6	7.9	8.3	8.6	8.6	8.1	7.6	6.8	6.4	5.9	6.0	6.6	6.5			

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)			

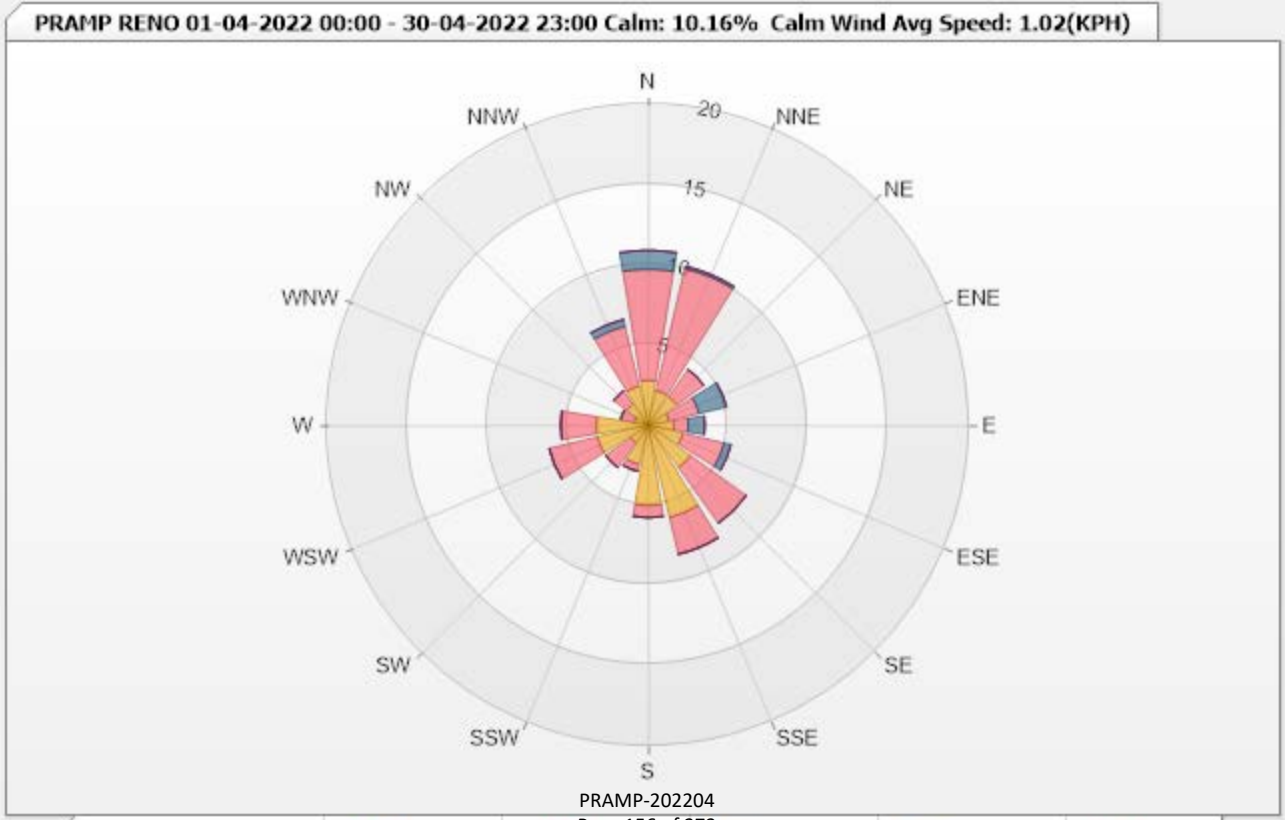
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for VWS - Reno Station



Wind: PRAMP RENO Monitor: WDS [KPH] Monthly: 04-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 10.16% Valid Data: 94.31%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	2.8	6.92	1.18	0	0	10.9
NNE	2.21	7.81	0.15	0	0	10.17
NE	2.21	2.06	0	0	0	4.27
ENE	1.33	1.91	1.77	0	0	5.01
E	1.62	0.88	1.03	0	0	3.53
ESE	2.21	2.65	0.44	0	0	5.3
SE	3.24	4.27	0	0	0	7.51
SSE	5.89	2.36	0	0	0	8.25
S	5.01	0.74	0	0	0	5.75
SSW	2.5	0.44	0	0	0	2.94
SW	1.33	1.91	0	0	0	3.24
WSW	3.24	3.09	0	0	0	6.33
W	3.24	2.21	0	0	0	5.45
WNW	0.88	0.88	0	0	0	1.76
NW	1.62	1.03	0	0	0	2.65
NNW	2.5	3.83	0.44	0	0	6.77
Summary	41.83	42.99	5.01	0	0	89.83


PRAMP RENO 01-04-2022 00:00 - 30-04-2022 23:00 Calm: 10.16% Calm Wind Avg Speed: 1.02(KPH)
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
20
15
10
5
% Icon Classes (KPH)
42 1.8-6.0
43 6.0-15.0
5 15.0-29.0
0 29.0-39.0
0 >39.0

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

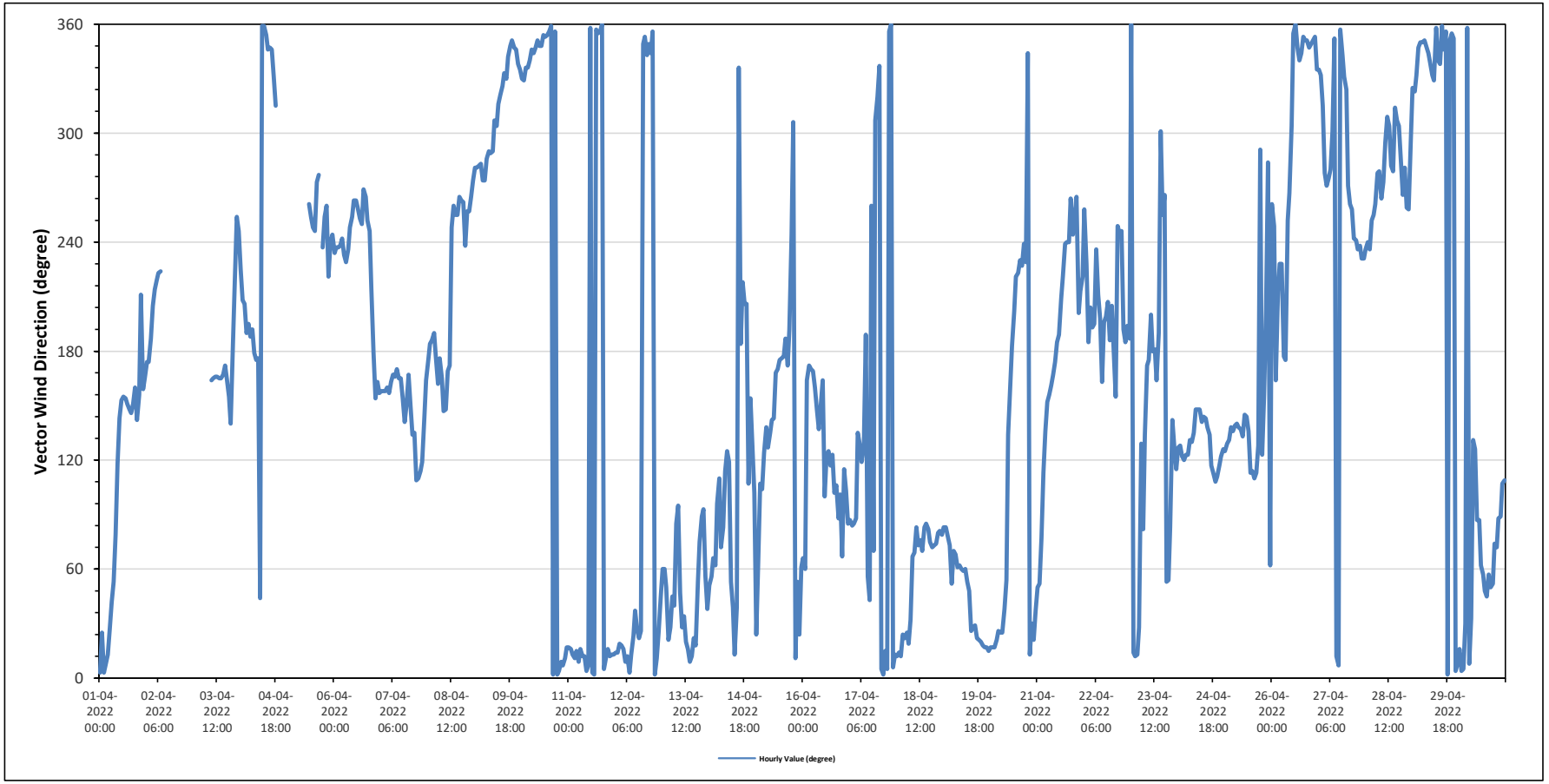
Monthly Average:	37 (NE)	degree	
Hours in Service:	720		
Hours of Data:	679		
Hours of Missing Data:	41		
Hours of Calibration:	0		
Operational Uptime:	94.3		

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
Apr 1	N	NNE	N	N	NNE	NNE	NE	NE	ENE	ESE	SE	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	SE	SSE	SSW	SSE	SSE	151	SSE
Apr 2	S	S	S	SSW	SSW	SW	SW	SW	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	-	-
Apr 3	K	K	K	K	K	K	K	K	K	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	SE	S	SSW	WSW	WSW	-	-
Apr 4	SW	SSW	SSW	S	SSW	S	S	S	S	S	NE	N	N	N	NNW	NNW	NNW	NNW	NW	K	K	K	K	K	324	NW
Apr 5	K	K	K	K	K	K	K	K	W	K	K	W	WSW	WSW	WSW	W	W	Y	SW	WSW	WSW	SW	WSW	WSW	-	-
Apr 6	SW	SW	SW	SW	WSW	SW	SW	SW	WSW	WSW	W	W	WSW	WSW	WSW	W	W	WSW	WSW	SSW	S	SSE	SSE	SSE	246	WSW
Apr 7	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SSE	SSE	SSE	SE	SE	ESE	ESE	ESE	ESE	SE	SSE	146	SE
Apr 8	S	S	S	S	S	SSE	S	SSE	SE	SE	SSE	S	WSW	WSW	WSW	WSW	W	W	W	SW	WSW	WSW	W	W	230	SW
Apr 9	W	W	W	W	W	W	WNW	WNW	WNW	WNW	NW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	314	NW
Apr 10	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	N	N	N	N	N	N	N	N	N	N	N	NNE	NNE	353	N
Apr 11	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	8	N
Apr 12	NNE	NNE	NNE	NNE	NNE	N	NNE	N	NNE	NNE	NE	NNE	NNE	NNE	NNW	N	NNW	NNW	NNW	N	N	NNE	NNE	NE	11	NNE
Apr 13	ENE	ENE	NE	NNE	NNE	NE	NE	E	E	NE	NNE	NE	NNE	NNE	N	NNE	NNE	NNE	NE	ENE	E	E	NE	NE	42	NE
Apr 14	NE	NE	ENE	ENE	E	ESE	ENE	E	ESE	SE	ESE	NE	NE	NNE	NE	NNW	S	SW	SSW	SSW	ESE	SSE	SE	E	77	ENE
Apr 15	NNE	ENE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSE	SSE	S	S	S	S	S	S	WSW	NW	NNE	NE	NNE	ENE	153	SSE
Apr 16	ENE	ENE	SSE	S	SSE	SSE	SSE	SE	SE	SSE	SSE	E	ESE	SE	ESE	ESE	E	ESE	E	E	ENE	ESE	ESE	E	121	ESE
Apr 17	E	E	E	E	SE	SE	ESE	SE	S	NE	NE	WSW	ENE	NW	NW	NNW	N	N	NNE	N	N	N	N	NNE	8	N
Apr 18	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	ENE	ENE	E	ENE	ENE	ENE	E	E	E	ENE	ENE	ENE	ENE	E	E	ENE	64	ENE
Apr 19	E	E	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	54	NE
Apr 20	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	SE	SSE	S	SSW	SW	SW	SW	SW	WSW	SW	NNW	NNE	NNE	NNE	NE	339	NNW
Apr 21	NE	NE	ENE	ESE	SE	SSE	SSE	SSE	SSE	S	S	S	SSW	SW	WSW	WSW	WSW	W	WSW	WSW	W	SSW	SSW	SW	202	SSW
Apr 22	WSW	SW	S	SSW	S	SSW	SW	SSW	SSW	SSE	SSW	SSW	SSW	S	SSW	S	SSE	WSW	WSW	WSW	S	S	SSW	S	203	SSW
Apr 23	N	NNE	NNE	NNE	NNE	SE	E	SE	S	S	SSW	S	S	SSE	S	WNW	WSW	W	NE	NE	E	SE	SE	ESE	129	SE
Apr 24	SE	SE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	SE	130	SE
Apr 25	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	SE	WNW	ESE	SSE	SSW	WNW	ENE	129	SE
Apr 26	W	WSW	SSE	SSW	SW	SW	S	S	WSW	W	WNW	N	N	NNW	NNW	NNW	N	N	N	NNW	NNW	N	N	NNW	335	NNW
Apr 27	NNW	NNW	NW	W	W	W	W	WNW	N	NNE	N	N	NNW	NNW	NW	W	W	WSW	WSW	WSW	SW	SW	SW	SW	304	WNW
Apr 28	SW	WSW	SW	WSW	WSW	W	W	W	W	W	WNW	NW	WNW	W	W	NW	NW	WNW	WNW	W	W	WSW	WSW	WNW	284	WNW
Apr 29	NW	NW	NNW	NNW	N	N	N	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	N	NNW	N	N	N	N	N	N	N	347	NNW
Apr 30	NNE	N	N	NNE	N	N	NNE	SE	SE	E	E	ENE	ENE	NE	NE	ENE	NE	NE	ENE	ENE	E	E	ESE	ESE	64	ENE

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

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

Timeseries Chart of Hourly Average for VWD - Reno Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	25.7	kph	on April 18 at hour 22	Hours in Service:	720
Maximum Daily Value:	13.6	kph	on April 18	Hours of Data:	679
Minimum Hourly Value:	0.0	kph	on April 1 at hour 0	Hours of Missing Data:	41
Minimum Daily Value:	0.7	kph	on April 20	Hours of Calibration:	0
Monthly Average:	1.7	kph		Operational Uptime:	94.3

WIND DIRECTION

Monthly Average: 37 (NE) 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			
Apr 1	**0.0**	**0.0**	1.7	2.8	2.9	0.7	**0.0**	**0.0**	**0.0**	**0.0**	2.8	4.4	5.9	7.2	6.9	6.0	3.6	4.0	4.6	4.7	3.3	4.2	4.5	4.5	**0.0**	7.2	2.4
	N	NNE	N	N	NNE	NNE	NE	NE	ENE	ESE	SE	SSE	SSE	SSE	SSE	SE	SE	SSE	SSE	SE	SSE	SSW	SSE	SSE			
Apr 2	4.1	4.7	5.0	6.9	8.5	8.1	8.4	8.7	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	4.1	8.7	-
	S	S	S	SSW	SSW	SW	SW	SW	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**			
Apr 3	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	7.9	6.8	6.0	6.3	6.8	5.4	5.4	6.2	4.3	4.0	3.8	5.4	3.5	12.5	7.1	3.5	12.5	-
	K	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	SSE	SSE	SSE	SSE	SSE	SSE	SSE	S	SSE	SSE	SE	S	SSW	WSW	WSW			
Apr 4	6.6	4.3	4.5	3.5	2.8	2.0	1.7	1.5	2.5	2.6	1.3	7.6	8.0	8.9	8.9	10.2	7.8	5.8	4.9	**K**	**K**	**K**	**K**	**K**	1.3	10.2	2.1
	SW	SSW	SSW	S	SSW	S	S	S	S	S	NE	N	N	N	NNW	NNW	NNW	NNW	NW	**K**	**K**	**K**	**K**	**K**			
Apr 5	**K**	**K**	**K**	**K**	**K**	**K**	**K**	**K**	5.0	**K**	**K**	5.6	6.4	9.1	8.7	5.4	4.3	**Y**	2.3	2.1	4.0	1.7	5.5	7.9	1.7	9.1	-
	K	**K**	**K**	**K**	**K**	**K**	**K**	**K**	W	**K**	**K**	W	WSW	WSW	WSW	W	W	**Y**	SW	WSW	WSW	SW	WSW	WSW			
Apr 6	7.2	7.8	7.3	6.6	7.8	7.2	7.5	9.0	12.6	9.8	11.7	10.6	10.9	12.0	11.6	8.1	7.1	5.8	4.4	0.6	0.7	1.6	2.5	4.6	0.6	12.6	6.8
	SW	SW	SW	SW	WSW	SW	SW	SW	WSW	WSW	W	W	WSW	WSW	WSW	W	W	WSW	WSW	SSW	S	SSE	SSE	SSE			
Apr 7	4.9	5.5	5.8	6.1	5.9	5.9	6.0	6.5	6.8	6.3	5.1	5.1	5.8	4.8	4.7	5.5	6.9	5.5	8.2	10.9	10.2	8.1	6.1	5.7	4.7	10.9	5.9
	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SE	SSE	SSE	SSE	SE	SE	ESE	ESE	ESE	ESE	SE	SSE			
Apr 8	4.6	5.3	4.3	3.6	3.7	3.2	5.3	6.8	6.8	5.8	5.5	7.7	8.0	8.2	12.5	9.0	6.2	7.1	11.1	5.9	9.7	12.8	12.0	9.7	3.2	12.8	5.3
	S	S	S	S	S	SSE	S	SSE	SE	SE	SSE	S	WSW	WSW	WSW	WSW	W	W	W	SW	WSW	WSW	W	W			
Apr 9	9.4	9.4	9.9	9.3	9.5	9.1	7.6	7.9	7.6	9.0	9.2	8.2	11.6	12.4	12.9	13.4	13.7	13.6	13.1	11.6	10.0	10.2	7.4	7.8	7.4	13.7	9.1
	W	W	W	W	W	W	WNW	WNW	WNW	WNW	NW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW			
Apr 10	7.8	7.8	9.7	9.1	11.0	12.5	14.2	15.4	16.3	16.4	15.6	16.5	16.7	18.2	18.9	17.0	14.9	14.7	14.5	13.7	11.0	9.5	11.5	13.1	7.8	18.9	13.3
	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	N	N	N	N	N	N	N	N	N	N	N	NNE	NNE			
Apr 11	12.3	11.7	11.3	12.4	12.3	11.9	12.0	13.6	11.8	12.8	12.6	13.4	12.9	13.5	14.2	14.9	17.2	16.5	14.3	13.8	14.9	13.6	15.1	14.4	11.3	17.2	13.4
	NNE	NNE	NNE	NNE	NNE	N	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE			
Apr 12	14.2	13.9	12.4	12.0	11.5	11.9	11.1	10.8	10.1	9.6	9.3	8.8	9.4	9.8	9.0	9.6	10.5	11.0	11.1	8.1	7.4	8.8	8.3	7.7	7.4	14.2	9.9
	NNE	NNE	NNE	NNE	NNE	N	NNE	N	NNE	NNE	NE	NNE	NNE	NNE	NNW	N	NNW	NNW	NNW	N	N	NNE	NNE	NE			
Apr 13	7.3	4.8	3.3	3.6	3.6	3.7	2.9	5.3	5.9	6.4	8.8	8.4	8.5	8.9	7.9	8.6	8.4	7.8	7.1	7.6	5.8	5.9	3.4	6.0	2.9	8.9	5.6
	ENE	ENE	NE	NNE	NNE	NE	NE	E	E	NE	NNE	NE	NNE	NNE	N	NNE	NNE	NNE	NE	ENE	E	E	NE	NE			
Apr 14	6.7	7.2	10.0	9.2	5.9	3.9	6.6	6.7	5.0	4.6	3.7	4.7	4.1	4.8	5.8	2.3	4.1	4.1	2.9	0.8	0.2	1.2	0.9	0.2	0.2	10.0	3.0
	NE	NE	ENE	ENE	E	ESE	ENE	E	ESE	SE	ESE	NE	NE	NNE	NE	NNW	S	SW	SSW	SSW	ESE	SSE	SE	E			
Apr 15	1.0	0.6	2.1	3.1	3.3	4.1	4.2	5.1	6.7	5.4	3.8	4.4	4.9	5.2	3.9	3.9	3.4	3.5	3.6	2.2	1.7	1.2	1.2	1.3	0.6	6.7	2.3
	NNE	ENE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSE	SSE	S	S	S	S	S	S	WSW	NW	NNE	NE	NNE	ENE			
Apr 16	1.3	1.2	1.8	2.4	1.3	2.1	2.3	4.3	6.2	5.7	5.5	8.8	8.3	7.2	8.8	8.8	10.2	7.9	5.9	4.2	1.1	1.7	2.0	2.4	1.1	10.2	4.2
	ENE	ENE	SSE	S	SSE	SSE	SSE	SE	SE	SSE	SSE	E	ESE	SE	ESE	ESE	E	ESE	E	E	ENE	ESE	ESE	E			
Apr 17	2.4	1.3	0.5	1.1	1.3	2.1	2.8	2.5	1.8	2.1	1.9	1.8	3.0	1.0	7.8	11.3	8.6	8.6	7.6	8.2	8.8	10.4	12.4	13.8	0.5	13.8	3.8
	E	E	E	E	SE	SE	ESE	SE	S	NE	NE	WSW	ENE	NW	NW	NNW	N	N	NNE	N	N	N	N	NNE			
Apr 18	13.4	13.5	12.7	12.1	10.6	9.6	8.4	7.7	9.9	9.9	9.8	13.1	14.2	16.9	17.3	18.0	18.0	17.7	18.3	19.5	18.4	21.5	**25.7**	25.4	7.7	**25.7**	**13.6**
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	ENE	ENE	E	ENE	ENE	ENE	E	E	E	ENE	ENE	ENE	ENE	E	E	ENE			
Apr 19	24.4	21.1	19.1	18.2	13.5	18.4	17.4	14.4	16.3	16.5	14.4	15.0	12.4	11.3	10.9	12.9	13.1	10.2	10.0	9.9	8.8	7.7	7.2	7.1	7.1	24.4	12.7
	E	E	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE			
Apr 20	6.8	6.6	6.8	6.0	5.1	4.1	3.4	2.8	2.9	1.9	3.7	3.3	4.1	6.5	7.4	8.8	6.2	5.9	3.7	2.6	2.5	3.3	2.0	3.4	1.9	8.8	**0.7**
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	SE	SSE	S	SSW	SW	SW	SW	SW	WSW	SW	NNW	NNE	NNE	NNE	NE			

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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - April 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	25.7	kph	on April 18 at hour 22	Hours in Service:	720
Maximum Daily Value:	13.6	kph	on April 18	Hours of Data:	679
Minimum Hourly Value:	0.0	kph	on April 1 at hour 0	Hours of Missing Data:	41
Minimum Daily Value:	0.7	kph	on April 20	Hours of Calibration:	0
Monthly Average:	1.7	kph		Operational Uptime:	94.3

WIND DIRECTION

Monthly Average: 37 (NE) 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			
Apr 21	3.9	2.6	2.8	3.2	3.1	3.1	2.9	4.0	6.2	6.4	5.9	6.2	6.2	8.6	8.6	6.9	5.3	4.4	4.4	3.6	1.8	0.7	1.2	1.2	0.7	8.6	2.7
	NE	NE	ENE	ESE	SE	SSE	SSE	SSE	SSE	S	S	S	SSW	SW	WSW	WSW	WSW	W	WSW	WSW	W	SSW	SSW	SW			
Apr 22	3.3	1.7	2.7	1.3	1.9	1.8	2.3	2.5	3.9	1.4	5.0	5.3	5.8	5.6	3.6	3.6	2.9	1.2	2.7	3.5	0.9	1.3	1.4	1.2	0.9	5.8	2.5
	WSW	SW	S	SSW	S	SSW	SW	SSW	SSW	SSE	SSW	SSW	SSW	S	SSW	S	SSE	WSW	WSW	WSW	S	S	SSW	S			
Apr 23	2.3	1.8	1.2	6.0	2.6	2.4	6.0	4.5	3.2	4.3	4.1	2.7	3.1	4.0	1.7	4.1	3.0	2.5	1.3	1.9	2.4	3.0	3.1	6.4	1.2	6.4	1.1
	N	NNE	NNE	NNE	NNE	SE	E	SE	S	S	SSW	S	S	SSE	S	WNW	WSW	W	NE	NE	E	SE	SE	ESE			
Apr 24	6.1	5.6	5.6	6.0	6.0	5.0	7.9	8.5	10.1	10.2	11.0	10.9	13.0	11.9	11.3	11.9	12.3	11.3	12.2	13.2	12.0	10.8	10.9	11.5	5.0	13.2	9.6
	SE	SE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	SE			
Apr 25	11.0	10.6	9.5	8.4	8.1	8.1	8.6	10.5	12.3	11.0	9.4	11.3	11.2	11.9	15.0	18.7	16.6	12.6	1.5	4.4	2.7	3.9	1.9	1.9	1.5	18.7	8.6
	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	SE	WNW	ESE	SSE	SSW	WNW	ENE			
Apr 26	3.8	2.1	0.5	2.4	2.5	1.3	1.0	0.8	1.5	3.2	3.0	6.5	6.0	5.7	4.7	4.6	4.2	6.3	6.8	6.4	6.0	5.6	5.9	3.6	0.5	6.8	2.9
	W	WSW	SSE	SSW	SW	SW	S	S	WSW	W	WNW	N	N	NNW	NNW	NNW	N	N	N	NNW	NNW	N	N	NNW			
Apr 27	3.0	2.1	1.9	2.9	3.2	3.4	3.5	4.0	7.0	7.5	7.7	7.0	7.1	5.6	5.3	2.8	4.6	4.5	4.1	3.4	3.2	4.0	4.7	4.2	1.9	7.7	2.9
	NNW	NNW	NW	W	W	W	W	WNW	N	NNE	N	N	NNW	NNW	NW	W	W	WSW	WSW	WSW	SW	SW	SW	SW			
Apr 28	3.8	3.8	0.3	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	3.9	4.5	4.6	5.8	4.3	5.0	3.8	6.4	5.0	4.4	3.2	3.2	2.0	2.5	3.2	1.6	**0.0**	6.4	2.7
	SW	WSW	SW	WSW	WSW	W	W	W	W	W	WNW	NW	WNW	W	W	NW	NW	WNW	WNW	W	W	WSW	WSW	WNW			
Apr 29	3.1	2.8	4.1	6.6	6.6	6.7	7.3	6.9	6.1	5.2	4.7	5.1	6.5	4.0	4.0	4.5	4.7	5.5	4.2	3.8	3.0	3.4	4.3	3.6	2.8	7.3	4.8
	NW	NW	NNW	NNW	N	N	N	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	N	NNW	N	N	N	N	N	N	N			
Apr 30	3.1	2.0	2.8	2.2	3.9	2.7	1.7	1.6	3.3	5.1	3.2	5.1	3.5	5.4	7.0	7.8	6.8	7.1	5.8	5.4	6.5	6.1	8.0	4.8	1.6	8.0	3.9
	NNE	N	N	NNE	N	N	NNE	SE	SE	E	E	ENE	ENE	NE	NE	ENE	NE	NE	ENE	ENE	E	E	ESE	ESE			

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

PRC STATION

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PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - April 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

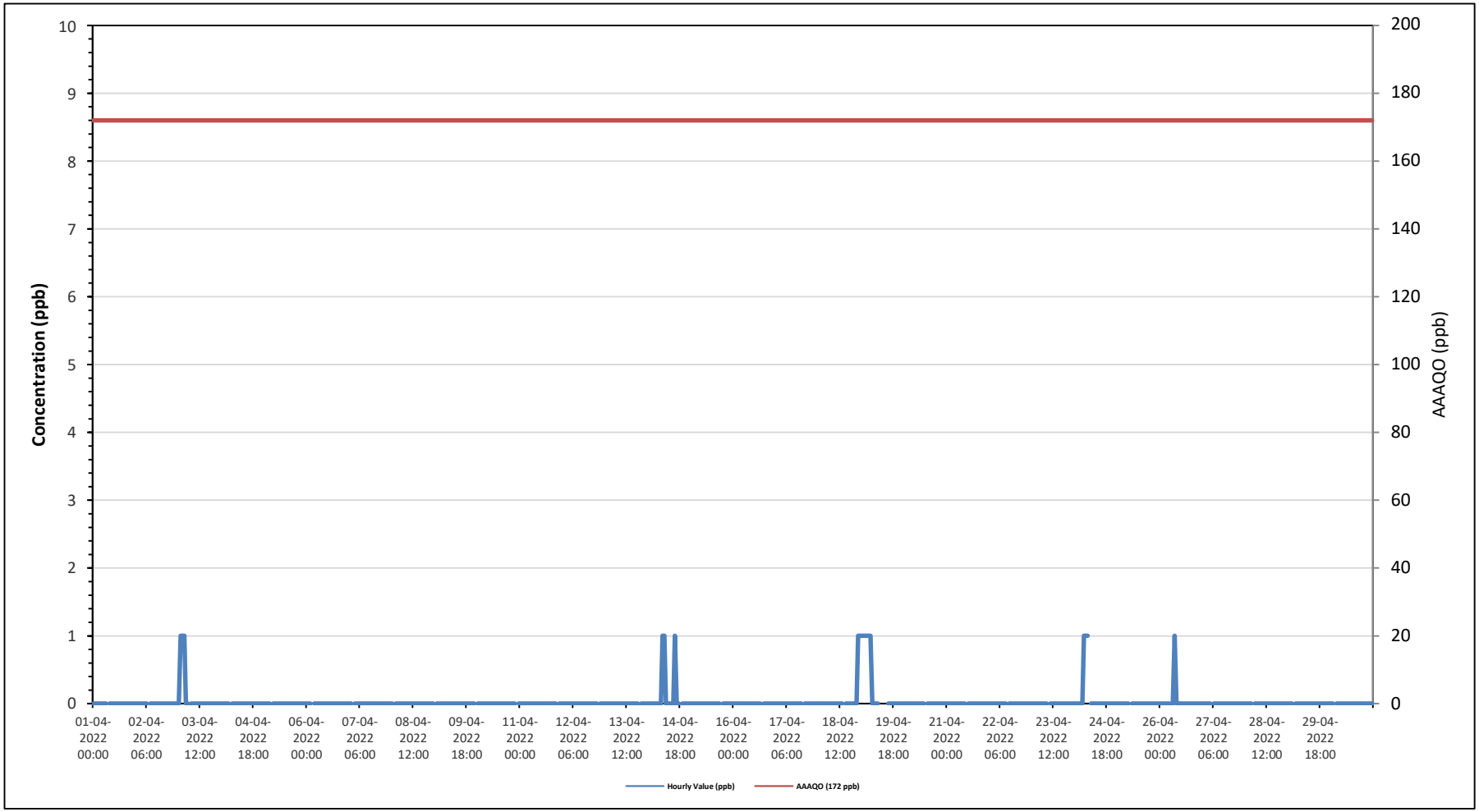
Maximum Hourly Value:	1	ppb	on April 3 at hour 1	Hours in Service:	720
Maximum Daily Value:	0.3	ppb	on April 19	Hours of Data:	685
Minimum Hourly Value:	0	ppb	on April 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on April 1	Hours of Calibration:	35
Monthly Average:	0.0	ppb		Operational Uptime:	100.0

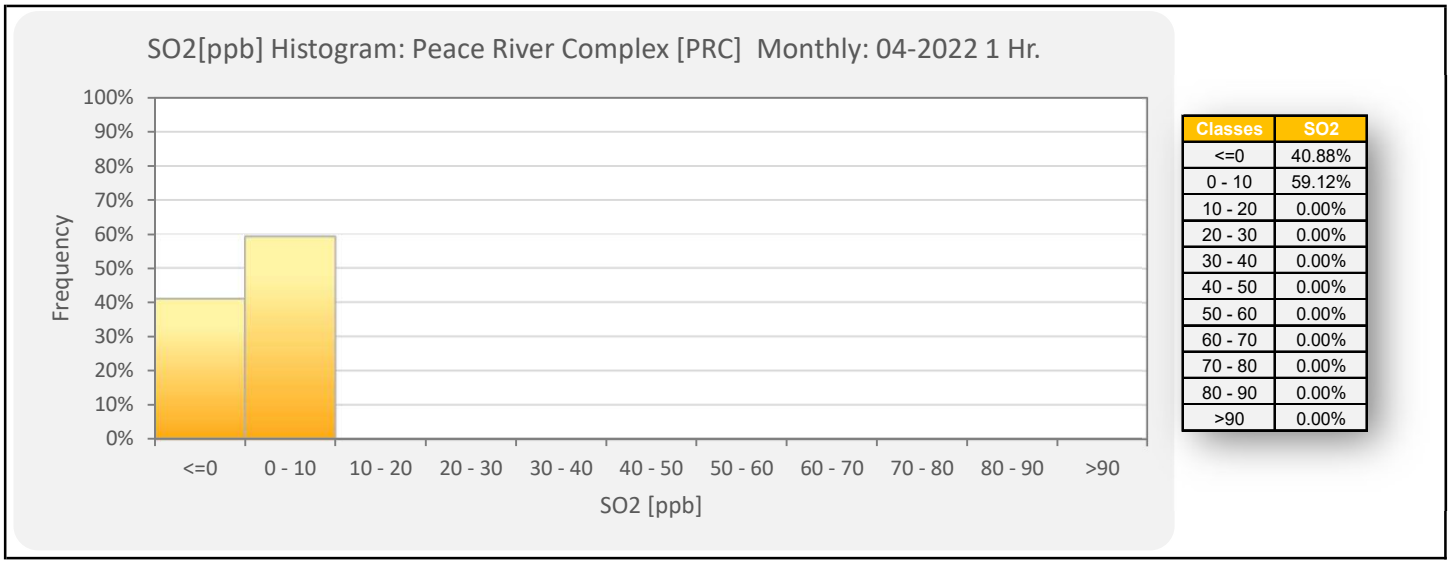
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 2	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 3	0	1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



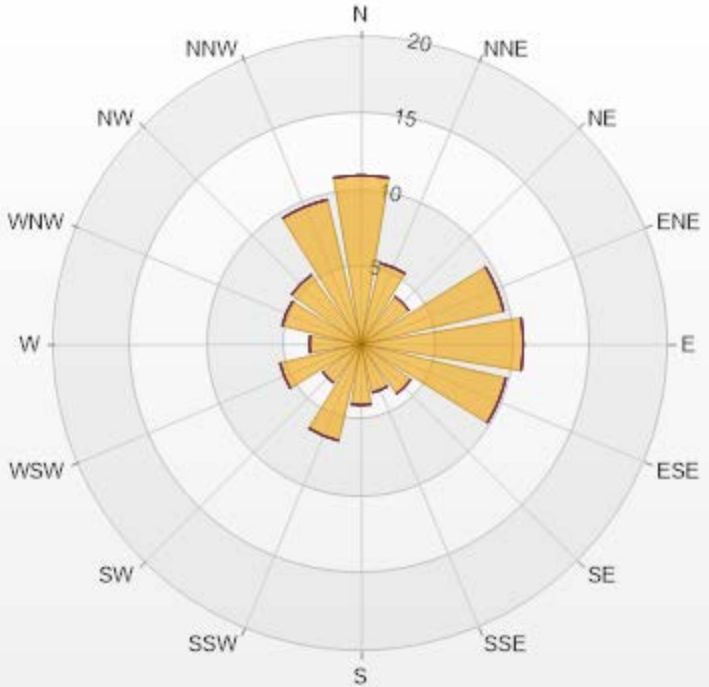


Classes	SO2
<=0	40.88%
0 - 10	59.12%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.72% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	11	0	0	0	0	11
NNE	5.43	0	0	0	0	5.43
NE	3.81	0	0	0	0	3.81
ENE	9.53	0	0	0	0	9.53
E	10.56	0	0	0	0	10.56
ESE	9.68	0	0	0	0	9.68
SE	3.96	0	0	0	0	3.96
SSE	3.23	0	0	0	0	3.23
S	3.96	0	0	0	0	3.96
SSW	6.45	0	0	0	0	6.45
SW	3.08	0	0	0	0	3.08
WSW	5.43	0	0	0	0	5.43
W	3.37	0	0	0	0	3.37
WNW	5.28	0	0	0	0	5.28
NW	5.57	0	0	0	0	5.57
NNW	9.68	0	0	0	0	9.68
Summary	100	0	0	0	0	100

Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] 01-04-2022 00:00 - 30-04-2022 23:00 Calm: 0.00%



% 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

Peace River Complex (PRC) Station - April 2022

Summary of Hourly Averages

HYDROGEN SULPHIDE (H_2S) in ppb

Alberta Ambient Air Quality Objectives (AAAQO): 1-Hour 10 ppb, 24-Hour 3 ppb

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

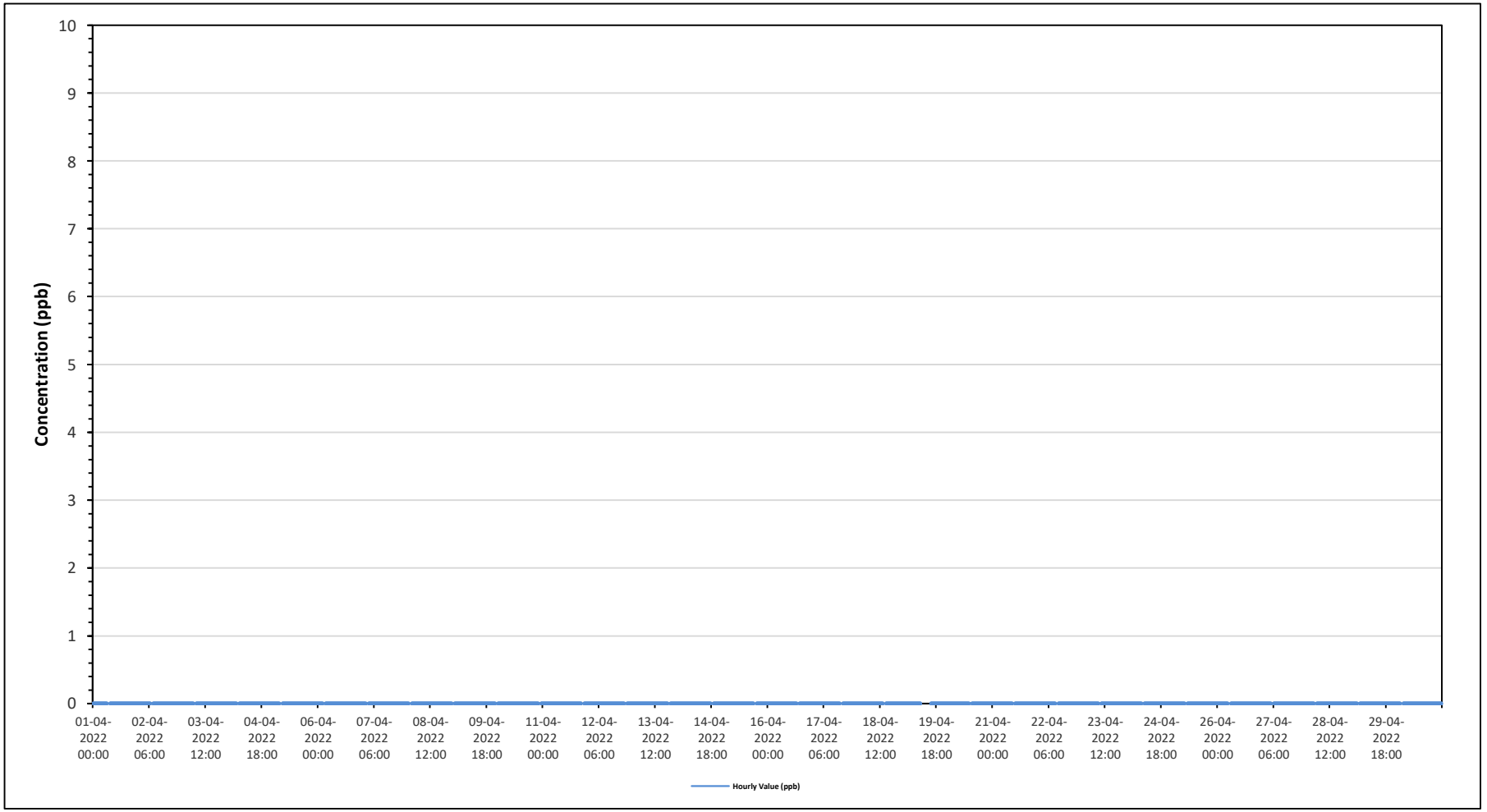
Maximum Hourly Value:	0	ppb	on April 1 at hour 0	Hours in Service:	720
Maximum Daily Value:	0.0	ppb	on April 1	Hours of Data:	685
Minimum Hourly Value:	0	ppb	on April 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on April 1	Hours of Calibration:	35
Monthly Average:	0.0	ppb		Operational Uptime:	100.0

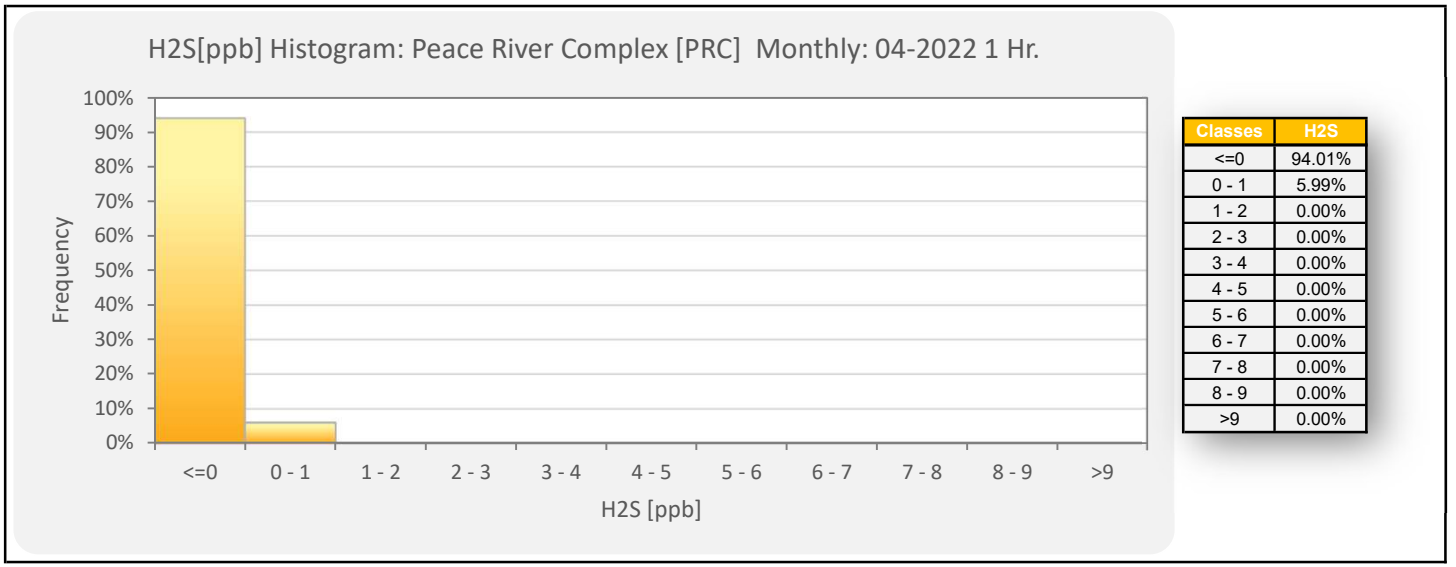
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 2	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 3	0	0	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
Apr 4	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
Apr 5	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
Apr 6	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
Apr 7	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
Apr 8	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
Apr 9	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
Apr 10	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
Apr 11	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
Apr 12	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
Apr 13	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
Apr 14	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
Apr 15	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
Apr 16	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
Apr 17	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
Apr 18	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
Apr 19	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 20	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
Apr 21	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
Apr 22	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
Apr 23	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
Apr 24	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
Apr 25	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
Apr 26	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
Apr 27	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
Apr 28	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
Apr 29	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
Apr 30	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
Diurnal Maximum	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 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 H2S - Peace River Complex (PRC) Station



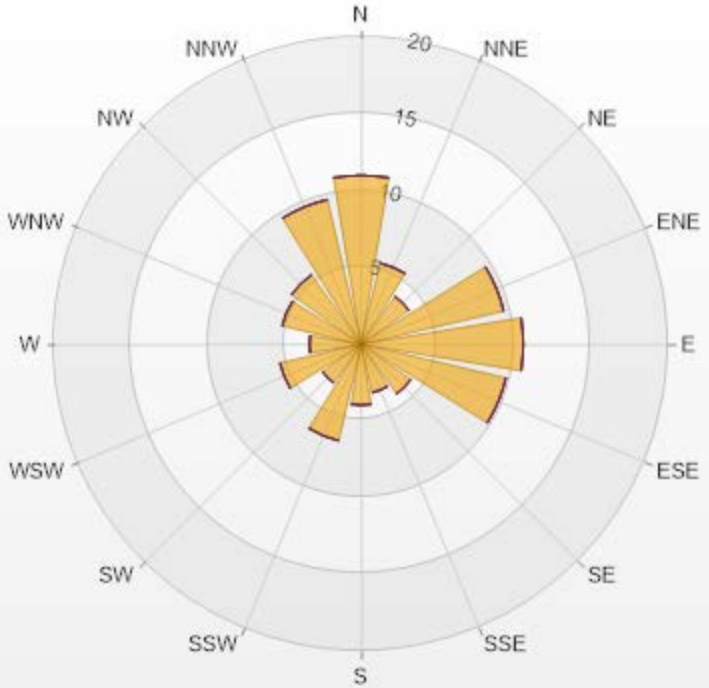


Classes	H2S
<=0	94.01%
0 - 1	5.99%
1 - 2	0.00%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-H2S[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.72% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	11	0	0	0	0	11
NNE	5.43	0	0	0	0	5.43
NE	3.81	0	0	0	0	3.81
ENE	9.53	0	0	0	0	9.53
E	10.56	0	0	0	0	10.56
ESE	9.68	0	0	0	0	9.68
SE	3.96	0	0	0	0	3.96
SSE	3.23	0	0	0	0	3.23
S	3.96	0	0	0	0	3.96
SSW	6.45	0	0	0	0	6.45
SW	3.08	0	0	0	0	3.08
WSW	5.43	0	0	0	0	5.43
W	3.37	0	0	0	0	3.37
WNW	5.28	0	0	0	0	5.28
NW	5.57	0	0	0	0	5.57
NNW	9.68	0	0	0	0	9.68
Summary	100	0	0	0	0	100

Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-H2S[ppb] 01-04-2022 00:00 - 30-04-2022 23:00 Calm: 0.00%



% 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

Peace River Complex (PRC) Station - April 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

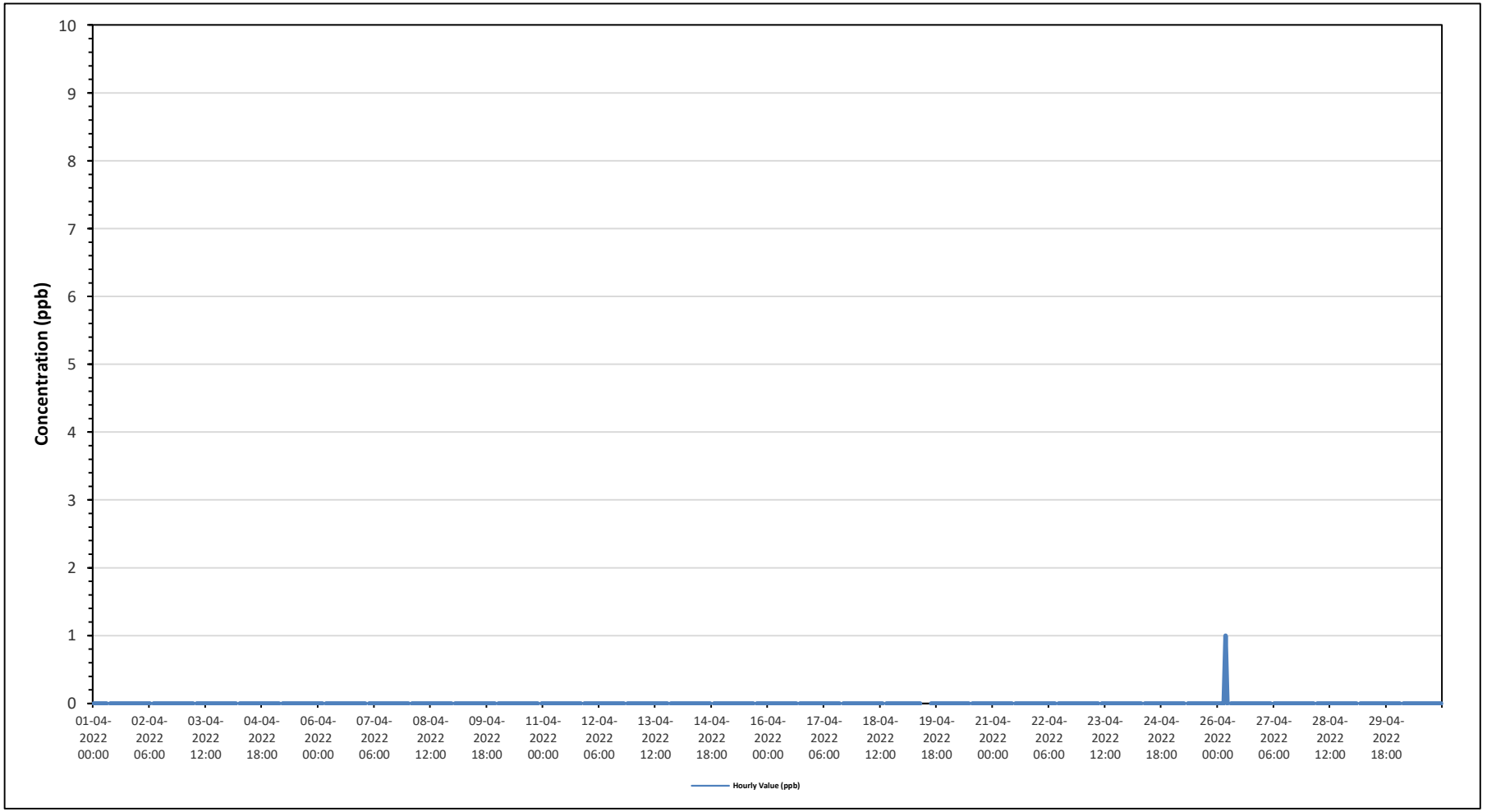
Maximum Hourly Value:	1	ppb	on April 26 at hour 4	Hours in Service:	720
Maximum Daily Value:	0.0	ppb	on April 26	Hours of Data:	685
Minimum Hourly Value:	0	ppb	on April 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on April 1	Hours of Calibration:	35
Monthly Average:	0.0	ppb		Operational Uptime:	100.0

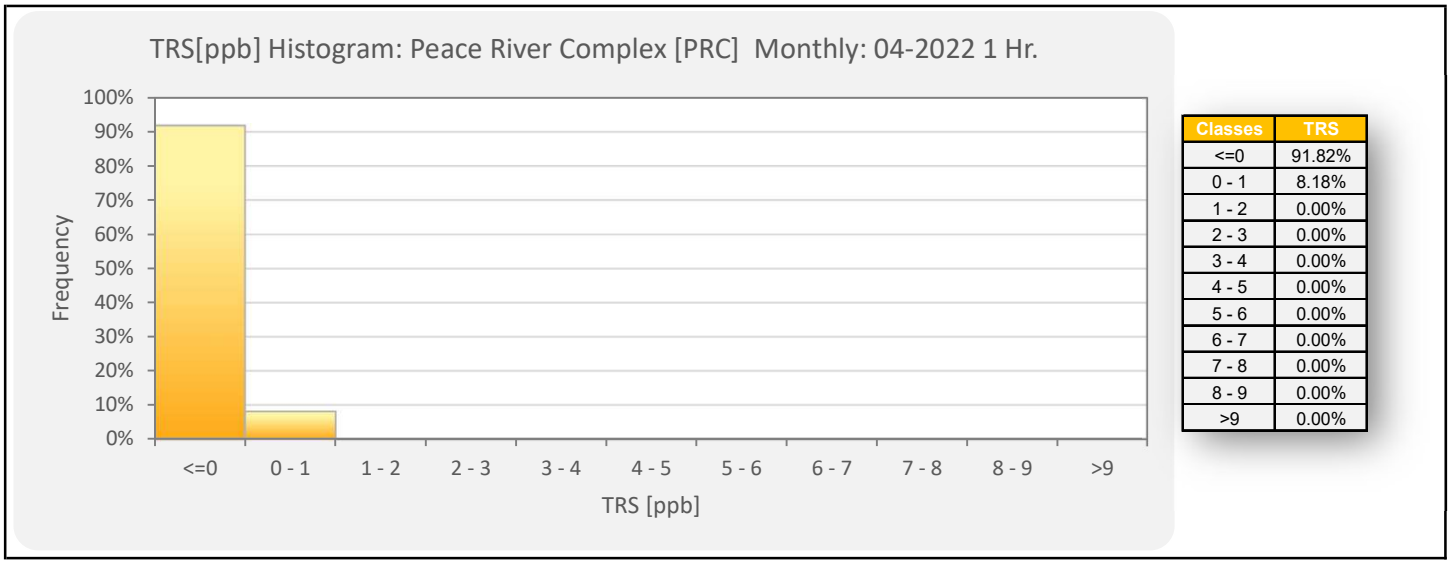
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 2	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 3	0	0	0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

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 - Peace River Complex (PRC) Station



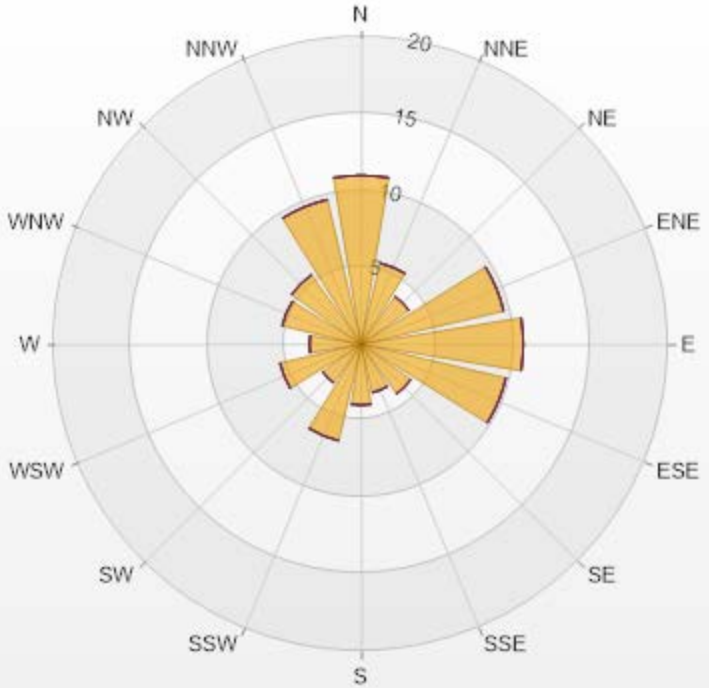


Classes	TRS
<=0	91.82%
0 - 1	8.18%
1 - 2	0.00%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-TRS[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.72% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	11	0	0	0	0	11
NNE	5.43	0	0	0	0	5.43
NE	3.81	0	0	0	0	3.81
ENE	9.53	0	0	0	0	9.53
E	10.56	0	0	0	0	10.56
ESE	9.68	0	0	0	0	9.68
SE	3.96	0	0	0	0	3.96
SSE	3.23	0	0	0	0	3.23
S	3.96	0	0	0	0	3.96
SSW	6.45	0	0	0	0	6.45
SW	3.08	0	0	0	0	3.08
WSW	5.43	0	0	0	0	5.43
W	3.37	0	0	0	0	3.37
WNW	5.28	0	0	0	0	5.28
NW	5.57	0	0	0	0	5.57
NNW	9.68	0	0	0	0	9.68
Summary	100	0	0	0	0	100

Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-TRS[ppb] 01-04-2022 00:00 - 30-04-2022 23:00 Calm: 0.00%



% 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

Peace River Complex (PRC) Station - April 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

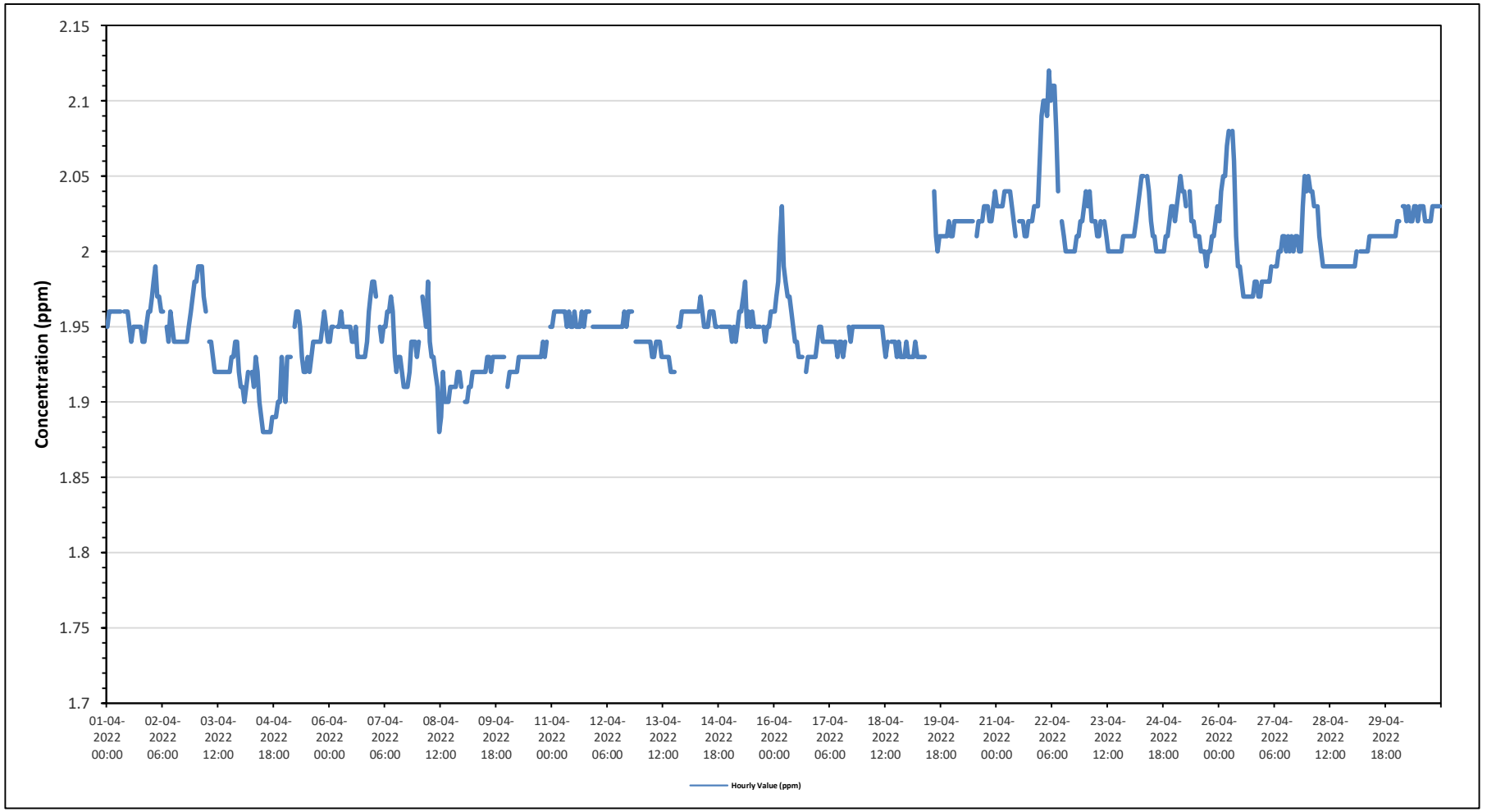
Maximum Hourly Value:	2.12	ppm	on April 22 at hour 4	Hours in Service:	720
Maximum Daily Value:	2.05	ppm	on April 22	Hours of Data:	686
Minimum Hourly Value:	1.88	ppm	on April 4 at hour 12	Hours of Missing Data:	0
Minimum Daily Value:	1.90	ppm	on April 4	Hours of Calibration:	34
Monthly Average:	1.97	ppm		Operational Uptime:	100.0

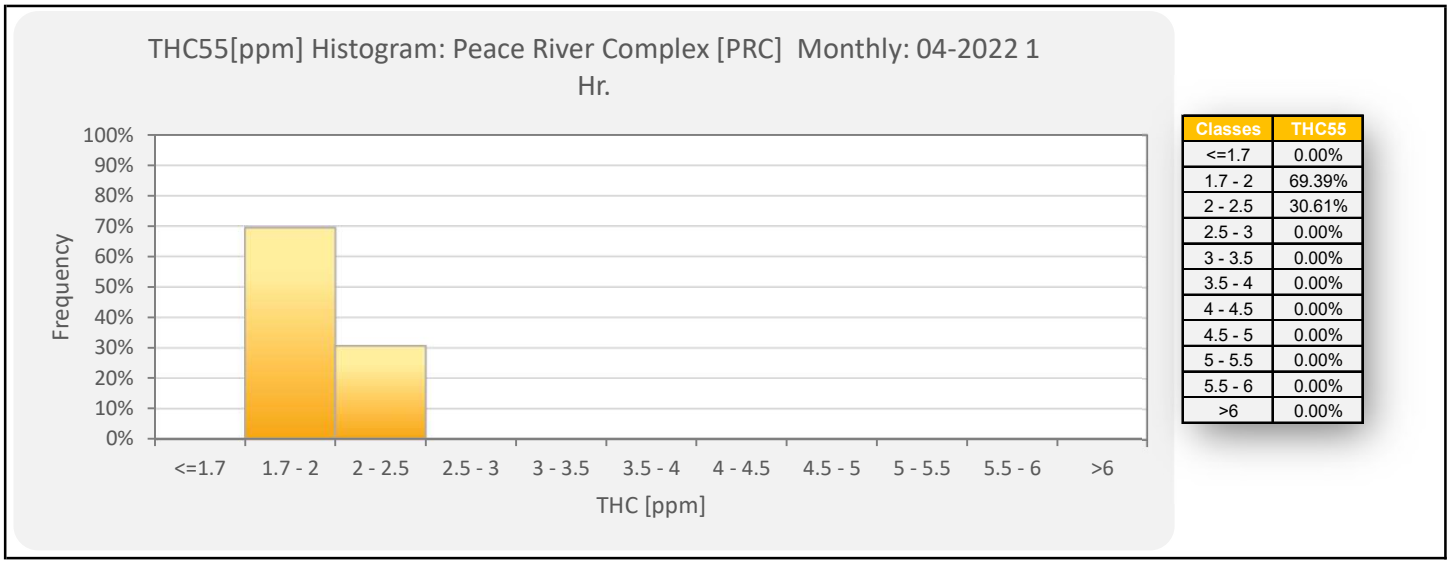
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96	S	1.96	1.96	1.96	1.95	1.94	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.95	1.96	1.96	1.94	1.96	1.95
Apr 2	1.97	1.98	1.99	1.97	1.97	1.96	1.96	S	1.95	1.94	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.97	1.98	1.94	1.99	1.96
Apr 3	1.98	1.99	1.99	1.99	1.97	1.96	S	1.94	1.94	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.93	1.93	1.94	1.94	1.92	1.92	1.99	1.94
Apr 4	1.91	1.91	1.90	1.91	1.92	S	1.92	1.91	1.93	1.92	1.90	1.89	1.88	1.88	1.88	1.88	1.88	1.89	1.89	1.89	1.90	1.90	1.93	1.91	1.88	1.93	1.90
Apr 5	1.90	1.93	1.93	1.93	S	1.95	1.96	1.96	1.95	1.93	1.92	1.92	1.93	1.92	1.93	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.95	1.94	1.90	1.96	1.94
Apr 6	1.94	1.95	1.95	S	1.95	1.95	1.96	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.95	1.93	1.93	1.93	1.93	1.93	1.94	1.96	1.97	1.98	1.93	1.98	1.95
Apr 7	1.98	1.97	S	1.95	1.94	1.95	1.95	1.96	1.96	1.97	1.96	1.93	1.92	1.93	1.93	1.92	1.91	1.91	1.91	1.92	1.94	1.94	1.94	1.93	1.91	1.98	1.94
Apr 8	1.94	S	1.97	1.96	1.95	1.98	1.94	1.93	1.93	1.92	1.91	1.88	1.89	1.92	1.90	1.90	1.90	1.91	1.91	1.91	1.91	1.92	1.92	1.91	1.88	1.98	1.92
Apr 9	S	1.90	1.90	1.91	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.93	1.93	1.92	1.93	1.93	1.93	1.93	1.93	1.93	1.93	S	1.90	1.93	1.92
Apr 10	1.91	1.92	1.92	1.92	1.92	1.92	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.93	1.94	S	1.95	1.91	1.95	1.93
Apr 11	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.95	1.95	1.96	1.95	1.95	1.95	1.96	1.95	1.96	1.96	1.96	S	1.95	1.95	1.95	1.96	1.96
Apr 12	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.95	1.96	1.96	1.96	S	1.94	1.94	1.94	1.94	1.96	1.95
Apr 13	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.93	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.92	S	1.95	1.95	1.96	1.96	1.92	1.96	1.94
Apr 14	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.96	1.95	1.95	1.95	1.96	1.96	1.96	1.95	1.95	S	1.95	1.95	1.95	1.95	1.95	1.95	1.97	1.96
Apr 15	1.95	1.94	1.95	1.94	1.95	1.96	1.96	1.97	1.98	1.95	1.96	1.95	1.96	1.95	1.95	1.95	1.95	S	1.95	1.94	1.95	1.95	1.96	1.96	1.94	1.98	1.95
Apr 16	1.96	1.97	1.98	2.01	2.03	1.99	1.98	1.97	1.97	1.96	1.95	1.94	1.94	1.93	1.93	1.93	S	1.92	1.93	1.93	1.93	1.93	1.93	1.94	1.92	2.03	1.95
Apr 17	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.94	1.94	1.93	1.94	S	1.95	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.93	1.95	1.94
Apr 18	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.94	1.93	1.94	S	1.94	1.94	1.94	1.93	1.94	1.93	1.93	1.93	1.94	1.93	1.95	1.94
Apr 19	1.93	1.93	1.93	1.93	1.94	1.93	1.93	1.93	1.93	1.93	C	C	C	C	2.04	2.01	2.00	2.01	2.01	2.01	2.01	2.01	2.02	2.01	1.93	2.04	1.97
Apr 20	2.01	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	S	2.01	2.02	2.02	2.02	2.03	2.03	2.03	2.02	2.02	2.03	2.04	2.01	2.04	2.02
Apr 21	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.03	2.02	2.01	S	2.02	2.02	2.02	2.01	2.01	2.02	2.02	2.02	2.03	2.03	2.03	2.06	2.01	2.06	2.03
Apr 22	2.09	2.10	2.10	2.09	**2.12**	2.10	2.11	2.11	2.08	2.04	S	2.02	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.02	2.03	2.00	**2.12**	**2.05**
Apr 23	2.04	2.03	2.04	2.02	2.02	2.02	2.01	2.01	2.02	S	2.02	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.04	2.01
Apr 24	2.01	2.01	2.01	2.02	2.03	2.04	2.05	2.05	S	2.05	2.04	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.03	2.00	2.05	2.02
Apr 25	2.02	2.03	2.04	2.05	2.04	2.04	2.03	S	2.04	2.02	2.02	2.01	2.01	2.01	2.00	2.00	2.00	1.99	2.00	2.00	2.01	2.01	2.02	2.03	1.99	2.05	2.02
Apr 26	2.02	2.04	2.05	2.05	2.07	2.08	S	2.08	2.06	2.01	1.99	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.97	1.97	1.98	1.97	2.08	2.01
Apr 27	1.98	1.98	1.98	1.98	1.99	S	1.99	1.99	2.00	2.00	2.01	2.01	2.00	2.01	2.00	2.01	2.00	2.01	2.01	2.00	2.00	2.03	2.05	2.04	1.98	2.05	2.00
Apr 28	2.05	2.04	2.04	2.03	S	2.03	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.05	2.00
Apr 29	1.99	1.99	2.00	S	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.99	2.01	2.01
Apr 30	2.02	2.02	S	2.03	2.03	2.02	2.03	2.02	2.02	2.03	2.03	2.02	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.03	2.03
Diurnal Maximum	2.09	2.10	2.10	2.09	2.12	2.10	2.11	2.11	2.08	2.05	2.04	2.02	2.03	2.03	2.04	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.05	2.06			
Diurnal Average	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.98	1.98			

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

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

Timeseries Chart of Hourly Average for THC - Peace River Complex (PRC) Station

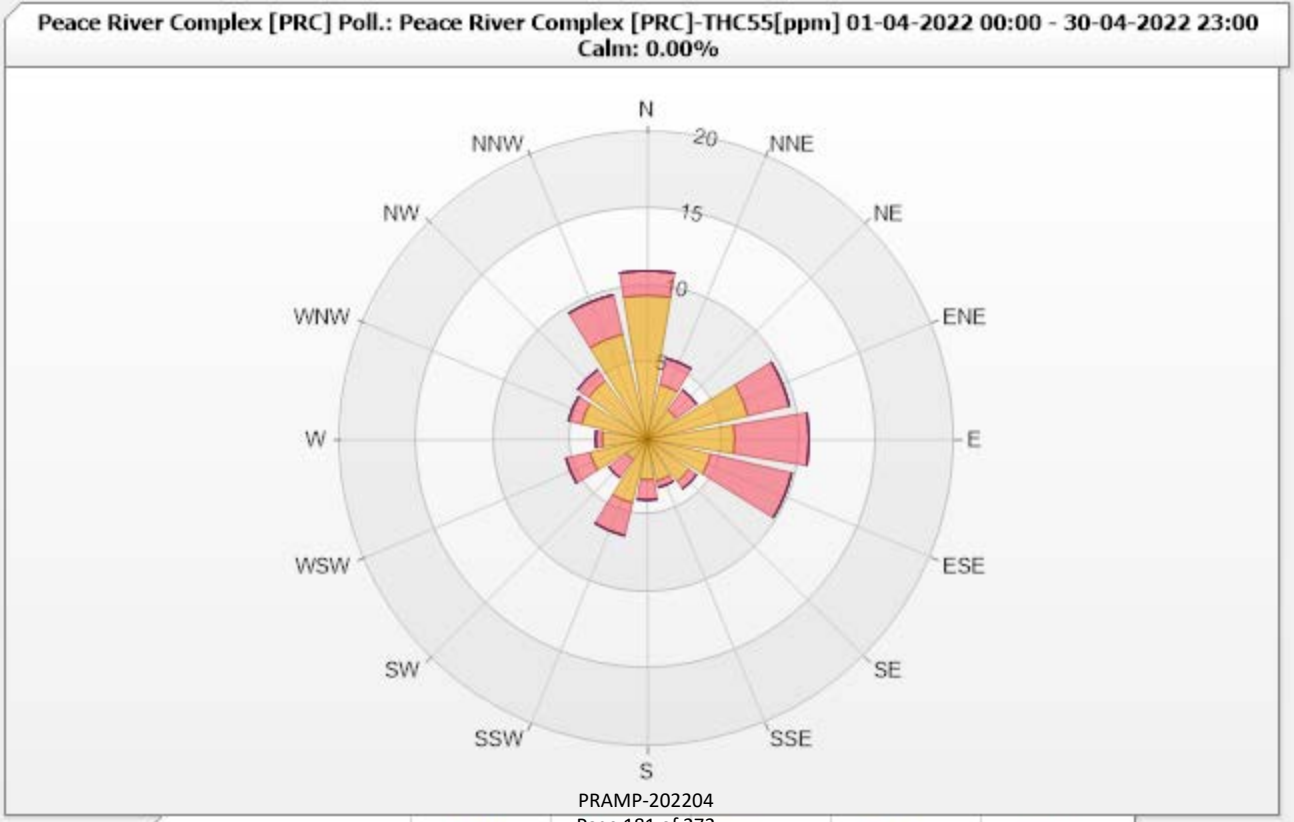




Classes	THC55
<=1.7	0.00%
1.7 - 2	69.39%
2 - 2.5	30.61%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-THC55[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	9.37	1.61	0	0	0	10.98
NNE	3.66	1.76	0	0	0	5.42
NE	2.34	1.61	0	0	0	3.95
ENE	6.73	2.78	0	0	0	9.51
E	5.71	4.83	0	0	0	10.54
ESE	4.25	5.42	0	0	0	9.67
SE	3.37	0.59	0	0	0	3.96
SSE	2.78	0.44	0	0	0	3.22
S	2.64	1.32	0	0	0	3.96
SSW	4.25	2.2	0	0	0	6.45
SW	1.61	1.46	0	0	0	3.07
WSW	3.81	1.61	0	0	0	5.42
W	2.93	0.44	0	0	0	3.37
WNW	4.39	0.88	0	0	0	5.27
NW	4.69	0.88	0	0	0	5.57
NNW	7.03	2.64	0	0	0	9.67
Summary	69.56	30.47	0	0	0	100


Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-THC55[ppm] 01-04-2022 00:00 - 30-04-2022 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)
70 0-2
30 2-5
0 5-10
0 10-40
0 >40.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - April 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

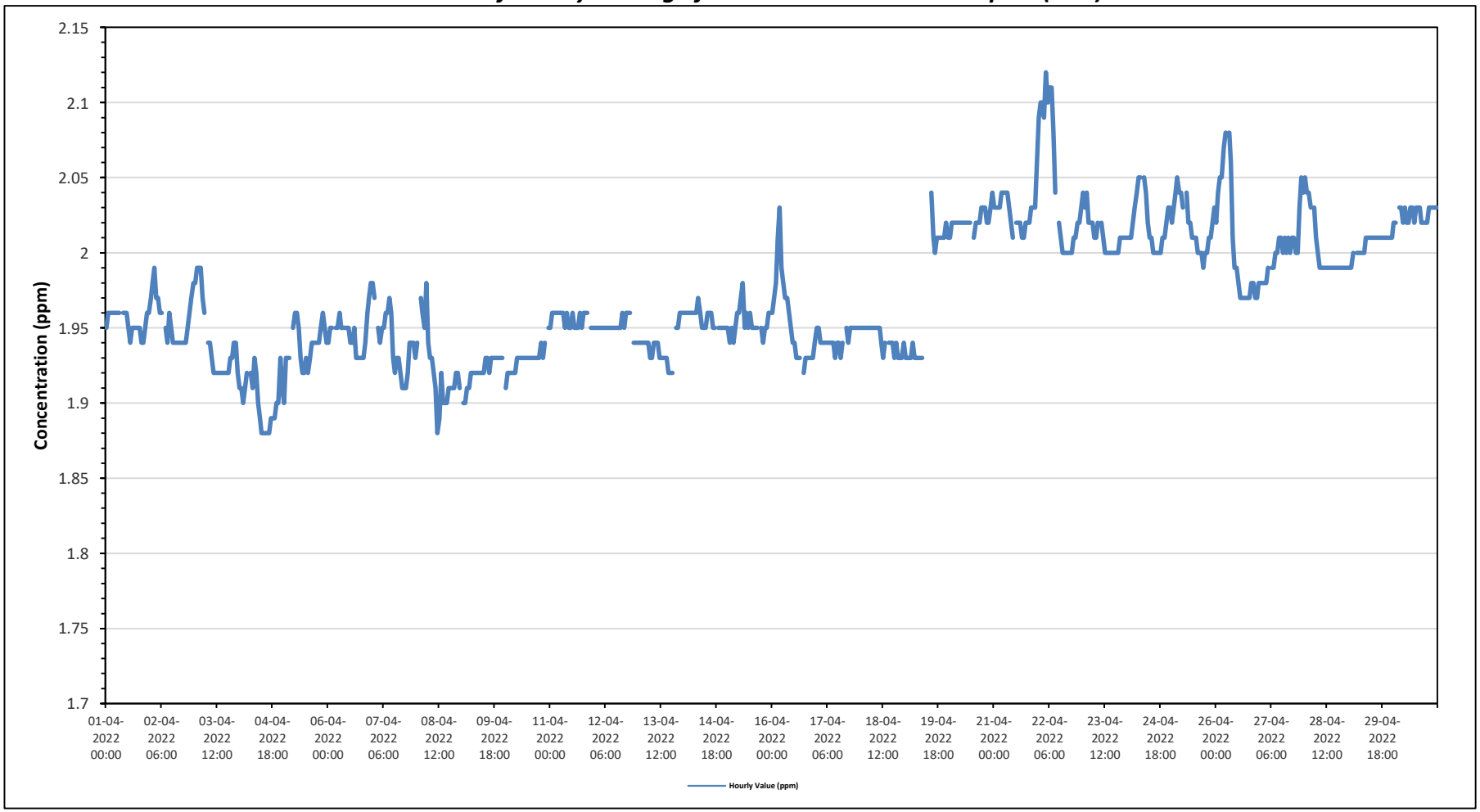
Maximum Hourly Value:	2.12	ppm	on April 22 at hour 4	Hours in Service:	720
Maximum Daily Value:	2.05	ppm	on April 22	Hours of Data:	686
Minimum Hourly Value:	1.88	ppm	on April 4 at hour 12	Hours of Missing Data:	0
Minimum Daily Value:	1.90	ppm	on April 4	Hours of Calibration:	34
Monthly Average:	1.97	ppm		Operational Uptime:	100.0

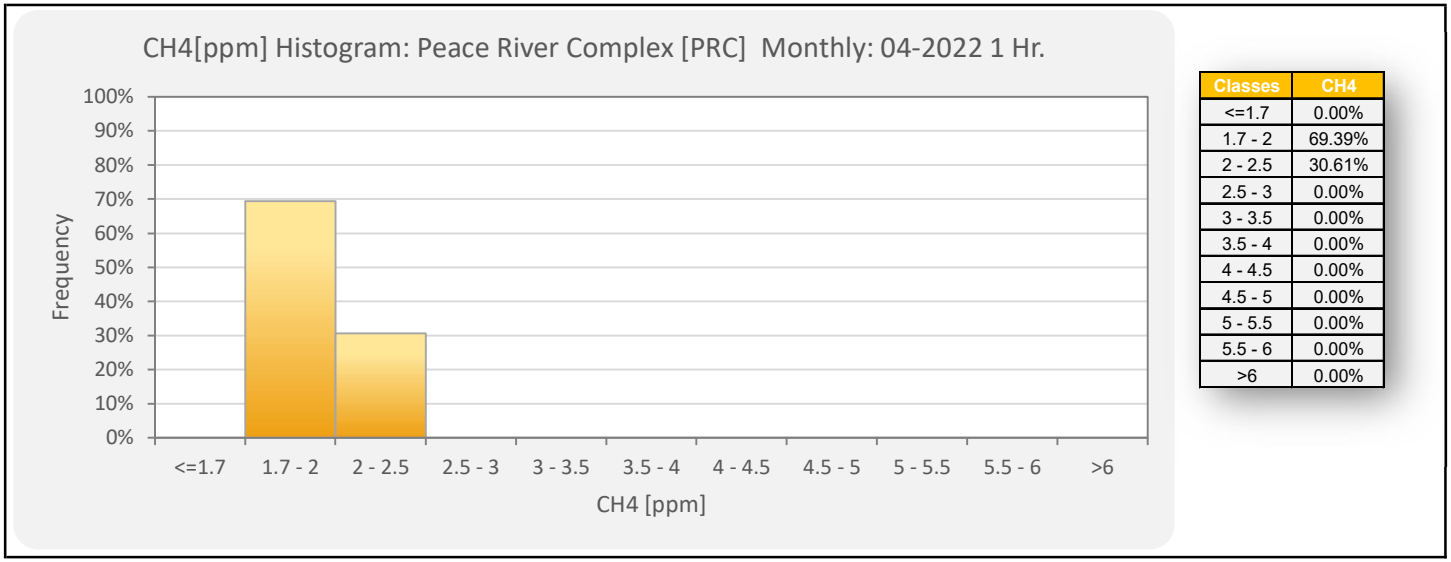
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96	S	1.96	1.96	1.96	1.95	1.94	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.95	1.96	1.96	1.94	1.96	1.95
Apr 2	1.97	1.98	1.99	1.97	1.97	1.96	1.96	S	1.95	1.94	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.97	1.98	1.94	1.99	1.96
Apr 3	1.98	1.99	1.99	1.99	1.97	1.96	S	1.94	1.94	1.93	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.93	1.93	1.94	1.94	1.92	1.92	1.99	1.94
Apr 4	1.91	1.91	1.90	1.91	1.92	S	1.92	1.91	1.93	1.92	1.90	1.89	1.88	1.88	1.88	1.88	1.88	1.89	1.89	1.89	1.90	1.90	1.93	1.91	1.88	1.93	1.90
Apr 5	1.90	1.93	1.93	1.93	S	1.95	1.96	1.96	1.95	1.93	1.92	1.92	1.93	1.92	1.93	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.95	1.94	1.90	1.96	1.94
Apr 6	1.94	1.95	1.95	S	1.95	1.95	1.96	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.95	1.93	1.93	1.93	1.93	1.93	1.94	1.96	1.97	1.98	1.93	1.98	1.95
Apr 7	1.98	1.97	S	1.95	1.94	1.95	1.95	1.96	1.96	1.97	1.96	1.93	1.92	1.93	1.93	1.92	1.91	1.91	1.91	1.92	1.94	1.94	1.94	1.93	1.91	1.98	1.94
Apr 8	1.94	S	1.97	1.96	1.95	1.98	1.94	1.93	1.93	1.92	1.91	1.88	1.89	1.92	1.90	1.90	1.90	1.91	1.91	1.91	1.91	1.92	1.92	1.91	1.88	1.98	1.92
Apr 9	S	1.90	1.90	1.91	1.91	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.93	1.93	1.92	1.93	1.93	1.93	1.93	1.93	1.93	1.93	S	1.90	1.93	1.92
Apr 10	1.91	1.92	1.92	1.92	1.92	1.92	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.94	S	1.95	1.91	1.95	1.93
Apr 11	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.95	1.95	1.96	1.95	1.95	1.95	1.96	1.95	1.96	1.96	1.96	S	1.95	1.95	1.95	1.96	1.96
Apr 12	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.95	1.96	1.96	1.96	S	1.94	1.94	1.94	1.94	1.96	1.95
Apr 13	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.93	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.93	1.92	1.92	1.92	S	1.95	1.95	1.96	1.96	1.92	1.96	1.94
Apr 14	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.96	1.95	1.95	1.95	1.96	1.96	1.96	1.95	1.95	S	1.95	1.95	1.95	1.95	1.95	1.95	1.97	1.96
Apr 15	1.95	1.94	1.95	1.94	1.95	1.96	1.96	1.97	1.98	1.95	1.96	1.95	1.96	1.95	1.95	1.95	1.95	S	1.95	1.94	1.95	1.95	1.96	1.96	1.94	1.98	1.95
Apr 16	1.96	1.97	1.98	2.01	2.03	1.99	1.98	1.97	1.97	1.96	1.95	1.94	1.94	1.93	1.93	1.93	S	1.92	1.93	1.93	1.93	1.93	1.93	1.94	1.92	2.03	1.95
Apr 17	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.94	1.94	1.93	1.94	S	1.95	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.93	1.95	1.94
Apr 18	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.94	1.93	1.94	S	1.94	1.94	1.94	1.93	1.94	1.93	1.93	1.93	1.94	1.93	1.95	1.94
Apr 19	1.93	1.93	1.93	1.93	1.94	1.93	1.93	1.93	1.93	1.93	C	C	C	C	2.04	2.01	2.00	2.01	2.01	2.01	2.01	2.01	2.02	2.01	1.93	2.04	1.97
Apr 20	2.01	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	S	2.01	2.02	2.02	2.02	2.03	2.03	2.03	2.02	2.02	2.03	2.04	2.01	2.04	2.02
Apr 21	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.03	2.02	2.01	S	2.02	2.02	2.02	2.01	2.01	2.02	2.02	2.02	2.03	2.03	2.03	2.06	2.01	2.06	2.03
Apr 22	2.09	2.10	2.10	2.09	**2.12**	2.10	2.11	2.11	2.08	2.04	S	2.02	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.02	2.03	2.00	**2.12**	**2.05**
Apr 23	2.04	2.03	2.04	2.02	2.02	2.02	2.01	2.01	2.02	S	2.02	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.00	2.04	2.01
Apr 24	2.01	2.01	2.01	2.02	2.03	2.04	2.05	2.05	S	2.05	2.04	2.02	2.01	2.01	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.03	2.00	2.05	2.02
Apr 25	2.02	2.03	2.04	2.05	2.04	2.04	2.03	S	2.04	2.02	2.02	2.01	2.01	2.01	2.00	2.00	2.00	1.99	2.00	2.00	2.01	2.01	2.02	2.03	1.99	2.05	2.02
Apr 26	2.02	2.04	2.05	2.05	2.07	2.08	S	2.08	2.06	2.01	1.99	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.97	1.97	1.98	1.97	2.08	2.01
Apr 27	1.98	1.98	1.98	1.98	1.99	S	1.99	1.99	2.00	2.00	2.01	2.01	2.00	2.01	2.00	2.01	2.00	2.01	2.01	2.00	2.00	2.03	2.05	2.04	1.98	2.05	2.00
Apr 28	2.05	2.04	2.04	2.03	S	2.03	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.05	2.00
Apr 29	1.99	1.99	2.00	S	2.00	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	1.99	2.01	2.01
Apr 30	2.02	2.02	S	2.03	2.03	2.02	2.03	2.02	2.02	2.03	2.03	2.02	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.02	2.03	2.03
Diurnal Maximum	2.09	2.10	2.10	2.09	2.12	2.10	2.11	2.11	2.08	2.05	2.04	2.02	2.03	2.03	2.04	2.02	2.02	2.03	2.03	2.03	2.03	2.03	2.05	2.06			
Diurnal Average	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.98	1.98			

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

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

Timeseries Chart of Hourly Average for CH4 - Peace River Complex (PRC) Station



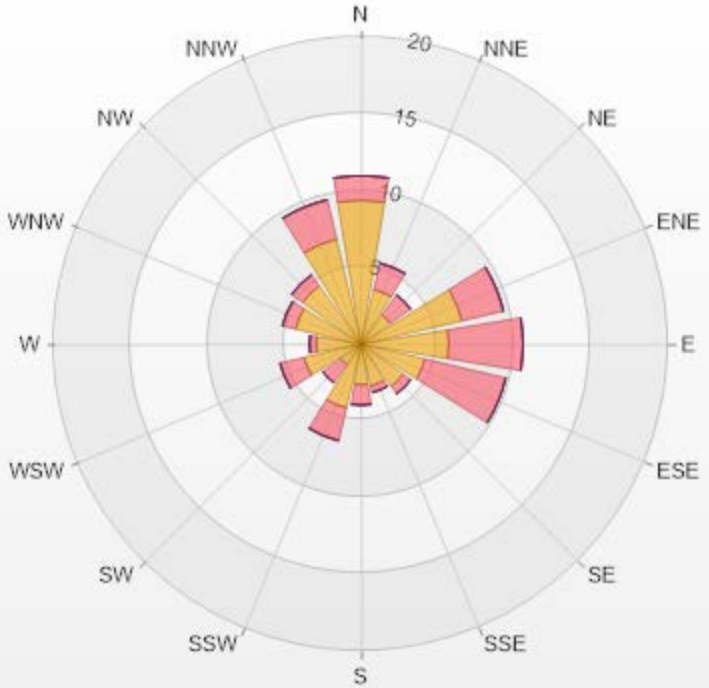


Classes	CH4
<=1.7	0.00%
1.7 - 2	69.39%
2 - 2.5	30.61%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-CH4[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	9.37	1.61	0	0	0	10.98
NNE	3.66	1.76	0	0	0	5.42
NE	2.34	1.61	0	0	0	3.95
ENE	6.73	2.78	0	0	0	9.51
E	5.71	4.83	0	0	0	10.54
ESE	4.25	5.42	0	0	0	9.67
SE	3.37	0.59	0	0	0	3.96
SSE	2.78	0.44	0	0	0	3.22
S	2.64	1.32	0	0	0	3.96
SSW	4.25	2.2	0	0	0	6.45
SW	1.61	1.46	0	0	0	3.07
WSW	3.81	1.61	0	0	0	5.42
W	2.93	0.44	0	0	0	3.37
WNW	4.39	0.88	0	0	0	5.27
NW	4.69	0.88	0	0	0	5.57
NNW	7.03	2.64	0	0	0	9.67
Summary	69.56	30.47	0	0	0	100

Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-CH4[ppm] 01-04-2022 00:00 - 30-04-2022 23:00
Calm: 0.00%



% Icon Classes (ppm)	70 0-2	30 2-5	0 5-10	0 10-20	0 >20.0

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PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - April 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

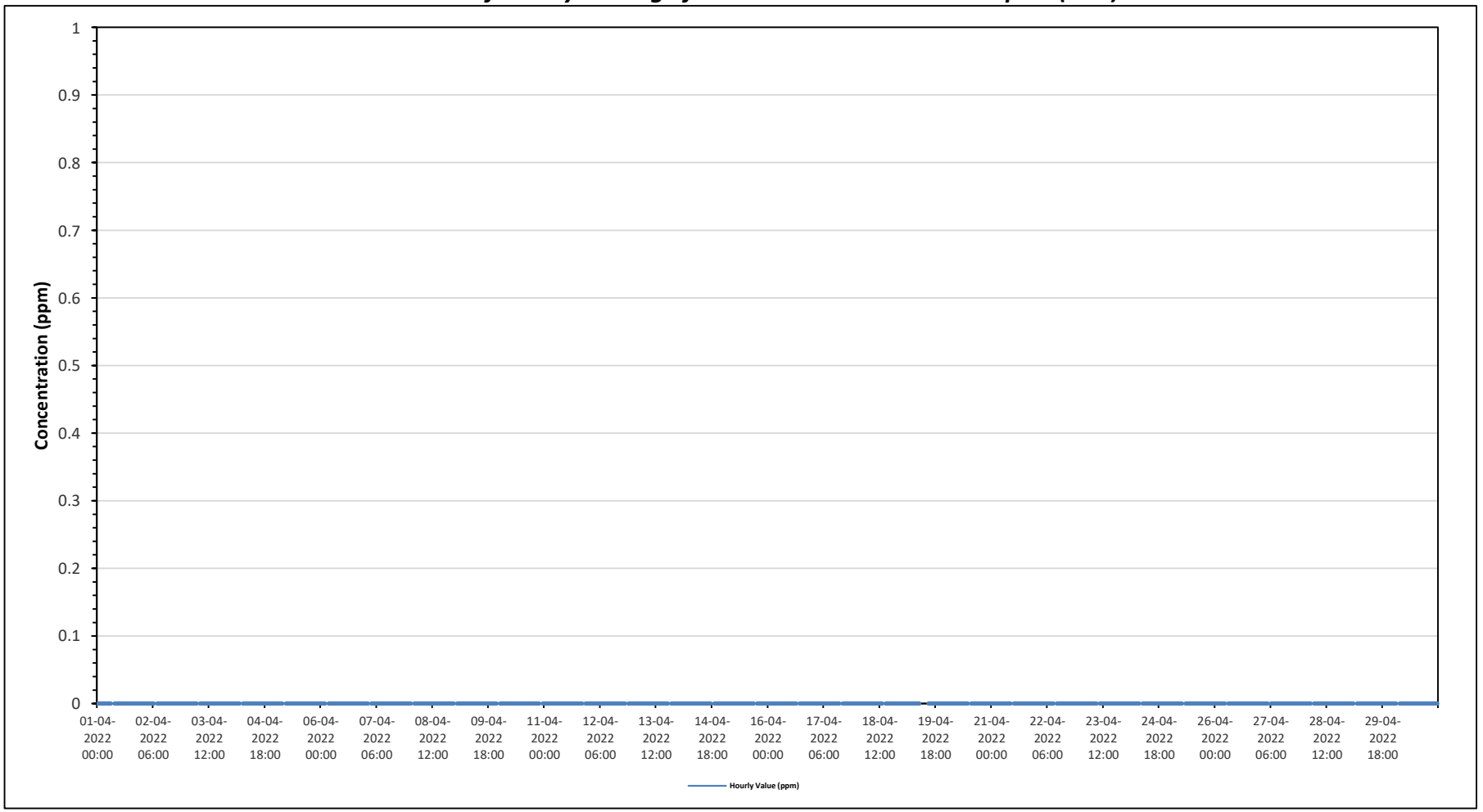
Maximum Hourly Value:	0.00	ppm	on April 1 at hour 0	Hours in Service:	720
Maximum Daily Value:	0.00	ppm	on April 1	Hours of Data:	686
Minimum Hourly Value:	0.00	ppm	on April 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.00	ppm	on April 1	Hours of Calibration:	34
Monthly Average:	0.00	ppm		Operational Uptime:	100.0

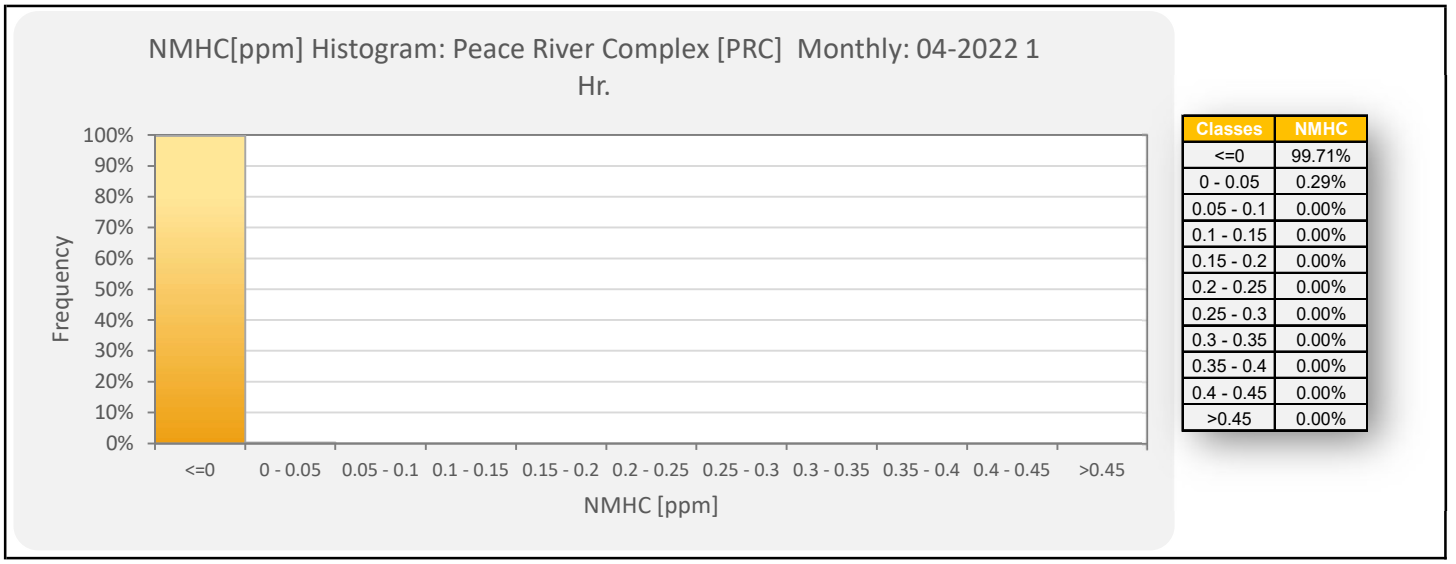
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 2	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
Apr 3	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
Apr 4	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
Apr 5	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
Apr 6	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
Apr 7	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
Apr 8	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
Apr 9	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
Apr 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	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
Apr 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	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
Apr 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 14	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 15	0.00	0.00	0.00	0.00	0.00	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
Apr 16	0.00	0.00	0.00	0.00	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
Apr 17	0.00	0.00	0.00	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
Apr 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Apr 20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 21	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
Apr 22	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
Apr 23	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
Apr 24	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
Apr 25	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
Apr 26	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
Apr 27	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
Apr 28	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
Apr 29	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
Apr 30	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
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 - Peace River Complex (PRC) Station

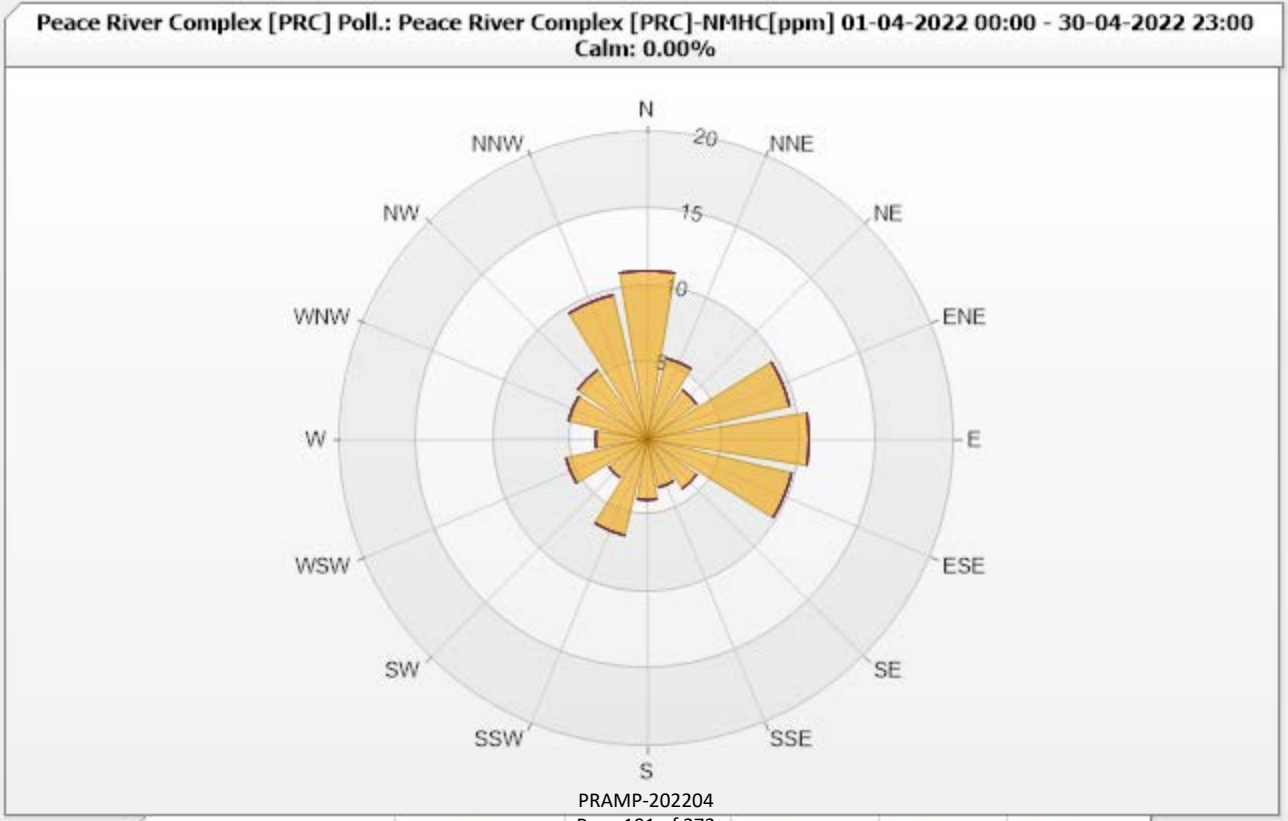




Classes	NMHC
<=0	99.71%
0 - 0.05	0.29%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-NMHC[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.86% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	10.98	0	0	0	0	10.98
NNE	5.42	0	0	0	0	5.42
NE	3.95	0	0	0	0	3.95
ENE	9.52	0	0	0	0	9.52
E	10.54	0	0	0	0	10.54
ESE	9.66	0	0	0	0	9.66
SE	3.95	0	0	0	0	3.95
SSE	3.22	0	0	0	0	3.22
S	3.95	0	0	0	0	3.95
SSW	6.44	0	0	0	0	6.44
SW	3.07	0	0	0	0	3.07
WSW	5.42	0	0	0	0	5.42
W	3.37	0	0	0	0	3.37
WNW	5.27	0	0	0	0	5.27
NW	5.56	0	0	0	0	5.56
NNW	9.66	0	0	0	0	9.66
Summary	100	0	0	0	0	100


Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-NMHC[ppm] 01-04-2022 00:00 - 30-04-2022 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

Peace River Complex (PRC) Station - April 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

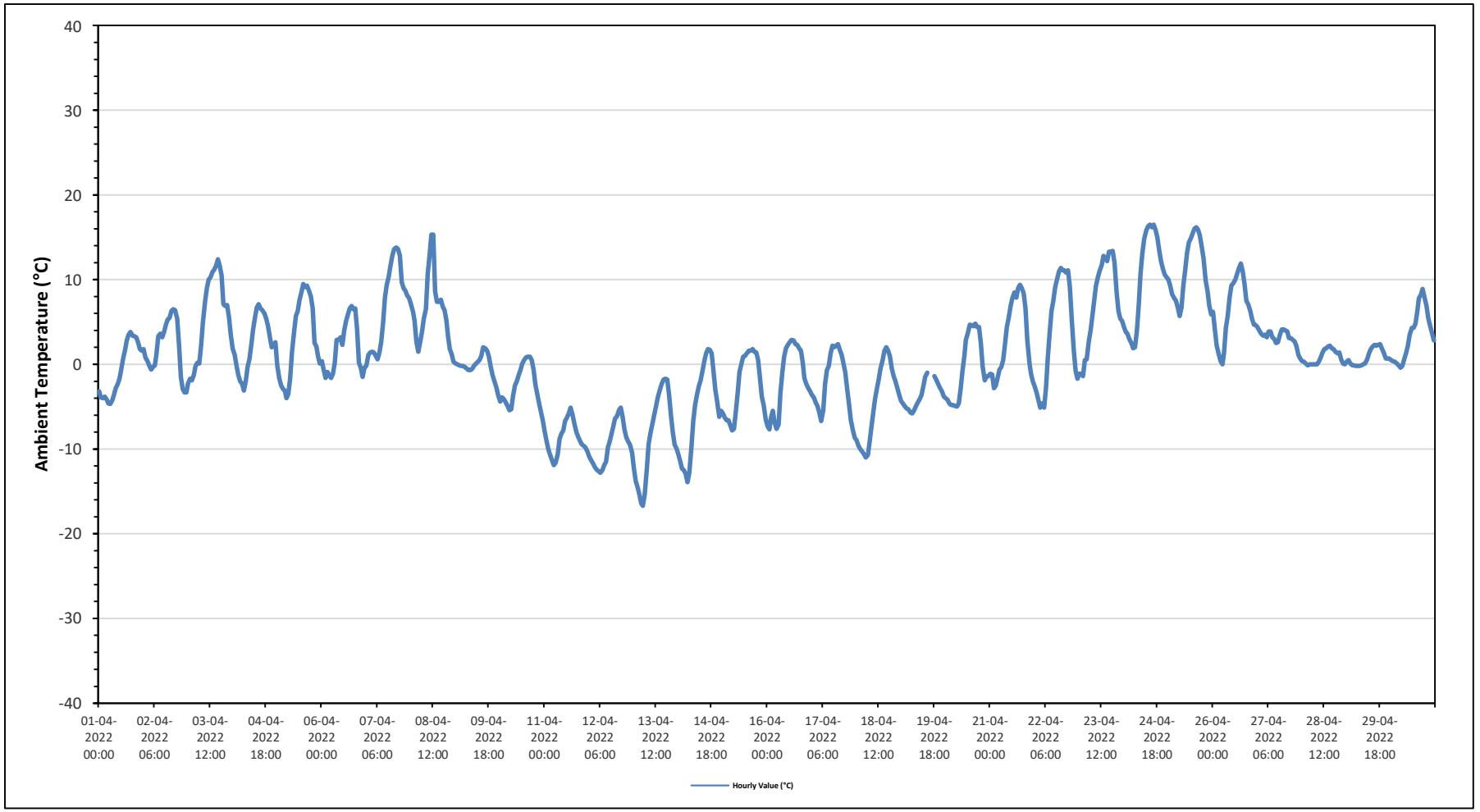
Maximum Hourly Value:	16.5	°C	on April 24 at hour 14	Hours in Service:	720
Maximum Daily Value:	10.9	°C	on April 25	Hours of Data:	717
Minimum Hourly Value:	-16.7	°C	on April 13 at hour 5	Hours of Missing Data:	3
Minimum Daily Value:	-9.5	°C	on April 12	Hours of Calibration:	0
Monthly Average:	0.9	°C		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			
Apr 1	-3.2	-3.9	-4	-3.8	-4.1	-4.6	-4.7	-4.3	-3.6	-2.8	-2.3	-1.6	-0.4	0.8	1.6	2.8	3.5	3.8	3.4	3.3	3.2	2.6	1.8	1.6	-4.7	3.8	-0.6
Apr 2	1.8	0.8	0.4	-0.2	-0.6	-0.3	-0.1	1.2	3.3	3.6	3.2	3.8	4.7	5.3	5.5	6.3	6.5	6.4	5.4	2.3	-1.5	-2.9	-3.3	-3.3	-3.3	6.5	2.0
Apr 3	-2.3	-1.7	-1.9	-1.3	-0.2	0.2	0.1	2.2	5	7.4	9	10	10.3	10.9	11.2	11.6	12.4	11.6	10.5	7.1	6.9	7	5.6	3.5	-2.3	12.4	5.6
Apr 4	1.9	1.1	-0.2	-1.3	-2	-2.3	-3.1	-2	-0.3	0.6	2.5	4.1	5.5	6.7	7.1	6.6	6.4	6	5.4	4.5	3.2	2	2.3	2.6	-3.1	7.1	2.4
Apr 5	-0.1	-1.7	-2.5	-2.9	-3.1	-4	-3.5	-1.7	1.4	3.8	5.7	6.3	7.6	8.5	9.5	9.1	9.3	8.7	8	6.6	2.5	2.1	1	0.1	-4.0	9.5	2.9
Apr 6	0.4	-0.7	-1.6	-0.9	-1.3	-1.6	-1.1	0.2	2.9	2.9	3.2	2.3	4	5.1	5.9	6.6	6.9	6.5	6.6	4.1	0.2	-0.4	-1.5	-0.4	-1.6	6.9	2.0
Apr 7	-0.2	1.1	1.4	1.5	1.4	1	0.6	1.4	2.7	4.9	7.9	9.4	10.3	11.6	12.8	13.6	13.8	13.6	12.8	9.7	9	8.7	8.1	7.8	-0.2	13.8	6.9
Apr 8	7.1	6.2	5.1	2.6	1.5	2.6	3.8	5.4	6.5	10.7	12.9	15.3	15.3	8.6	7.4	7.4	7.6	6.8	6.4	5.2	3.4	1.8	1.2	0.3	0.3	15.3	6.3
Apr 9	0.1	0	-0.1	-0.2	-0.2	-0.3	-0.5	-0.7	-0.7	-0.5	-0.1	0.1	0.3	0.5	1	2	1.9	1.6	0.9	-0.3	-1.3	-2	-2.7	-3.6	-3.6	2.0	-0.2
Apr 10	-4.4	-3.9	-4.1	-4.5	-4.9	-5.4	-5.3	-3.7	-2.5	-2	-1.3	-0.7	0.1	0.5	0.8	0.9	0.9	0.5	-0.6	-2.4	-3.5	-4.6	-5.6	-6.6	-6.6	0.9	-2.6
Apr 11	-7.9	-9	-10	-10.7	-11.3	-11.9	-11.6	-10.6	-8.8	-8.2	-7.8	-6.7	-6.3	-5.8	-5.1	-5.9	-7.1	-8	-8.5	-9	-9.4	-9.6	-9.8	-10.3	-11.9	-5.1	-8.7
Apr 12	-10.9	-11.3	-11.7	-12.1	-12.4	-12.6	-12.8	-12.5	-11.9	-11.5	-9.8	-9.2	-8.3	-7.4	-6.4	-6.1	-5.4	-5.1	-6.2	-7.7	-8.6	-9.1	-9.5	-10.4	-12.8	-5.1	-9.5
Apr 13	-12.3	-13.8	-14.5	-15.4	-16.4	**-16.7**	-15.4	-12.4	-9.4	-8.1	-7.1	-6	-5	-3.9	-3.1	-2.3	-1.8	-1.7	-1.8	-3.6	-6	-8	-9.5	-9.9	**-16.7**	-1.7	-8.5
Apr 14	-10.6	-11.4	-12.3	-12.5	-12.9	-13.9	-12.8	-9.8	-6.7	-4.8	-3.6	-2.6	-1.9	-0.8	0.4	1.3	1.8	1.7	1.3	-0.8	-3	-4.4	-6.2	-5.5	-13.9	1.8	-5.4
Apr 15	-5.8	-6.3	-6.6	-6.6	-7.2	-7.8	-7.6	-5.3	-3.1	-0.9	0	0.9	1	1.3	1.6	1.6	1.8	1.5	1.4	0.5	-1.6	-3.8	-4.8	-6.5	-7.8	1.8	-2.6
Apr 16	-7.3	-7.7	-6.3	-5.5	-6.9	-7.6	-7.1	-3.3	-1	0.9	1.9	2.3	2.6	2.9	2.8	2.4	2.3	1.9	1.6	0.2	-1.6	-2.3	-2.8	-3.2	-7.7	2.9	-1.7
Apr 17	-3.6	-3.9	-4.5	-4.9	-5.7	-6.7	-5.4	-2.3	-0.7	-0.2	1.3	2.2	2	2.2	2.4	1.7	1.1	0.1	-1	-2.9	-4.7	-6.6	-7.8	-8.7	-8.7	2.4	-2.4
Apr 18	-9	-9.6	-10	-10.3	-10.6	-11	-10.7	-9.3	-7.5	-5.8	-4.1	-2.9	-1.8	-0.5	0.5	1.6	2	1.6	0.9	-0.5	-1.4	-2	-2.9	-3.7	-11.0	2.0	-4.5
Apr 19	-4.3	-4.6	-4.9	-5.2	-5.3	-5.7	-5.8	-5.4	-4.9	-4.5	-4.1	-3.6	-2.6	-1.5	-1	Y	Y	Y	-1.4	-1.8	-2.3	-2.8	-3.2	-3.8	-5.8	-1.0	-3.7
Apr 20	-4	-4.2	-4.6	-4.8	-4.8	-4.9	-5	-4.6	-2.9	-0.8	0.9	2.9	3.6	4.7	4.6	4.5	4.8	4.4	4.4	2.5	-0.3	-1.9	-1.4	-1.4	-5.0	4.8	-0.3
Apr 21	-1.1	-1.2	-2.8	-2.5	-1.7	-0.6	-0.3	0.5	2.4	4.4	5.5	6.8	7.8	8.5	7.9	9	9.4	9	8.4	6.6	2.8	0.2	-1.1	-2	-2.8	9.4	3.2
Apr 22	-2.6	-3.3	-4.2	-5.1	-4.6	-5.1	-2.8	0.8	3.7	6.3	7.5	9.1	10	11	11.4	11.1	11.1	10.8	11.1	9.1	4.9	1.6	-0.8	-1.7	-5.1	11.4	3.7
Apr 23	-1.1	-1.1	-1.4	0.5	0.6	2.7	4	5.8	7.6	9.2	10.2	11	11.7	12.8	12.5	12.2	13.3	13.3	13.4	12	8.5	6.3	5.4	5.1	-1.4	13.4	7.3
Apr 24	4.4	3.8	3.6	3	2.5	1.9	2	3.9	6.9	10.7	13.1	14.8	15.8	16.3	**16.5**	16.2	**16.5**	15.9	15	13.5	12.2	11.3	10.6	10.3	1.9	**16.5**	10.0
Apr 25	10	9.3	8.3	7.9	7.5	6.7	5.7	6.7	9.3	11.1	13.1	14.4	14.9	15.4	16	16.2	15.9	15.2	13.9	12.5	9.9	8.7	6.9	5.9	5.7	16.2	**10.9**
Apr 26	6.2	4.1	2.2	1.3	0.4	0	1.4	4.3	5.7	7.9	9.3	9.6	10	10.7	11.4	11.9	11	9.5	7.5	7.1	6.3	5.3	4.7	4.6	0.0	11.9	6.4
Apr 27	4.4	4	3.6	3.4	3.5	3.2	3.9	3.9	3.2	3	2.5	2.6	3.5	4.1	4.1	4	3.9	3.1	3.1	2.9	2.7	2.1	1.1	0.7	0.7	4.4	3.2
Apr 28	0.4	0.3	0.1	-0.1	0	0	0	0	0	0.3	0.8	1.4	1.8	1.9	2.1	2.2	1.9	1.8	1.5	1.3	1.4	0.6	0.1	0	-0.1	2.2	0.8
Apr 29	0.3	0.5	0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	0	0.1	0.6	1.3	1.8	2.1	2.3	2.2	2.3	2.4	1.8	1.3	0.7	0.7	0.7	-0.2	2.4	0.8
Apr 30	0.5	0.4	0.3	0.1	-0.1	-0.4	-0.2	0.6	1.3	2.2	3.5	4.3	4.3	4.8	6.3	7.8	8.2	8.9	7.8	6.9	5.4	4.5	3.7	2.8	-0.4	8.9	3.5
Diurnal Maximum	10.0	9.3	8.3	7.9	7.5	6.7	5.7	6.7	9.3	11.1	13.1	15.3	15.8	16.3	16.5	16.2	16.5	15.9	15.0	13.5	12.2	11.3	10.6	10.3			
Diurnal Average	-1.8	-2.3	-2.8	-3.0	-3.3	-3.5	-3.2	-1.7	-0.1	1.3	2.5	3.4	4.1	4.6	5.0	5.5	5.6	5.2	4.5	3.0	1.3	0.2	-0.7	-1.2			

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

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

Timeseries Chart of Hourly Average for AT - Peace River Complex (PRC) Station



peace river area monitoring program

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PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - April 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

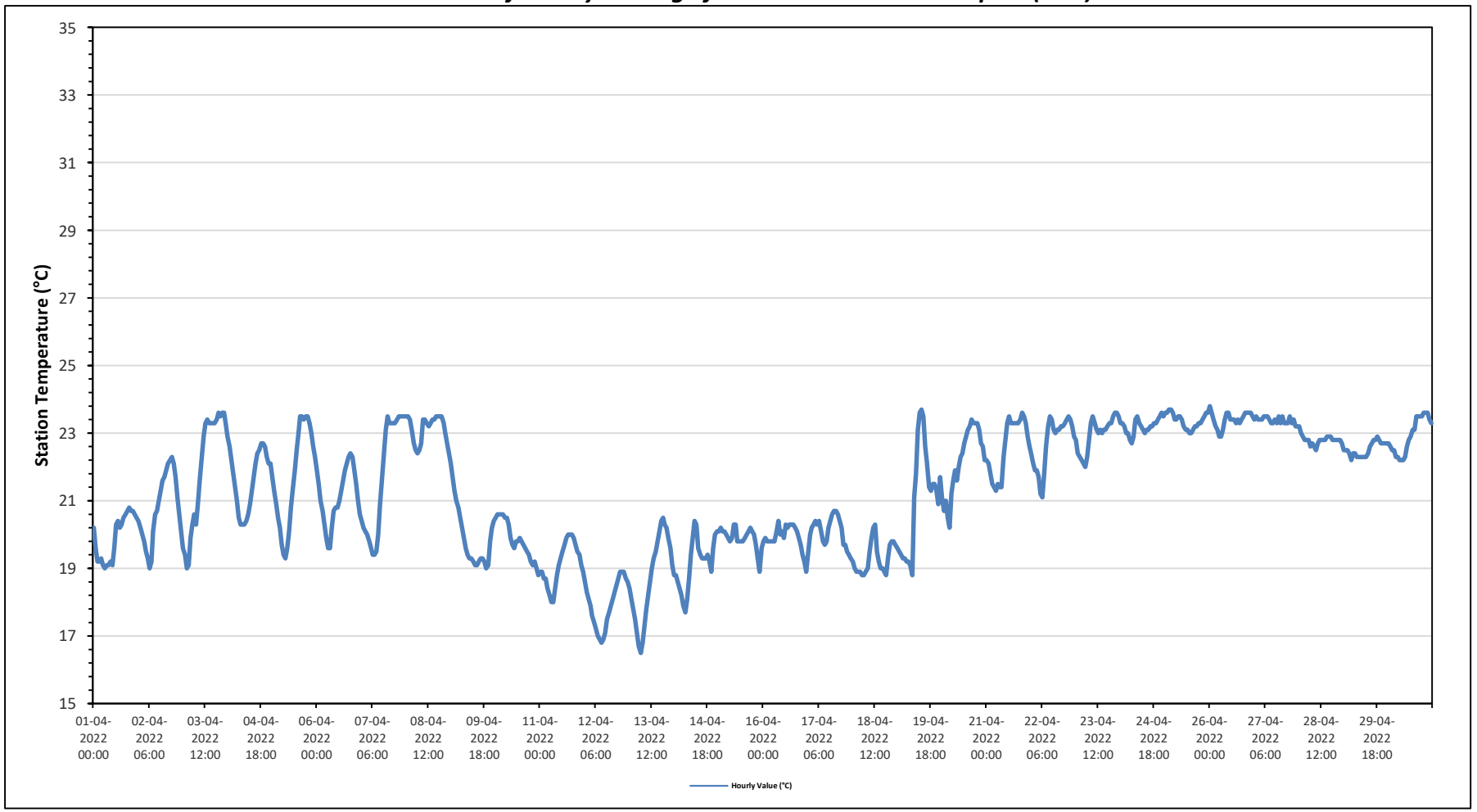
Maximum Hourly Value:	23.8	°C	on April 26 at hour 0	Hours in Service:	720
Maximum Daily Value:	23.4	°C	on April 26	Hours of Data:	720
Minimum Hourly Value:	16.5	°C	on April 13 at hour 6	Hours of Missing Data:	0
Minimum Daily Value:	17.9	°C	on April 12	Hours of Calibration:	0
Monthly Average:	21.3	°C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	20.2	19.6	19.2	19.2	19.3	19.1	19.0	19.1	19.1	19.2	19.1	19.6	20.3	20.4	20.2	20.3	20.5	20.6	20.7	20.8	20.7	20.7	20.6	20.5	19.0	20.8	19.9
Apr 2	20.4	20.2	20.0	19.8	19.5	19.3	19.0	19.2	20.1	20.6	20.7	21.0	21.3	21.6	21.7	21.9	22.1	22.2	22.3	22.1	21.7	21.1	20.6	20.1	19.0	22.3	20.8
Apr 3	19.6	19.4	19.0	19.1	19.9	20.3	20.6	20.3	20.9	21.6	22.3	22.9	23.3	23.4	23.3	23.3	23.3	23.3	23.4	23.6	23.5	23.6	23.6	23.3	19.0	23.6	22.0
Apr 4	22.9	22.6	22.2	21.8	21.4	21.0	20.5	20.3	20.3	20.3	20.4	20.6	20.9	21.3	21.7	22.1	22.4	22.5	22.7	22.7	22.6	22.3	22.1	22.1	20.3	22.9	21.7
Apr 5	21.7	21.3	20.9	20.5	20.2	19.7	19.4	19.3	19.6	20.1	20.8	21.4	21.9	22.5	23.0	23.5	23.5	23.4	23.5	23.5	23.3	23.0	22.6	22.3	19.3	23.5	21.7
Apr 6	21.9	21.5	21.0	20.7	20.3	19.9	19.6	19.6	20.2	20.7	20.8	20.8	21.0	21.3	21.6	21.9	22.1	22.3	22.4	22.3	21.9	21.5	21.0	20.6	19.6	22.4	21.1
Apr 7	20.4	20.2	20.1	20.0	19.8	19.6	19.4	19.4	19.5	20.0	20.9	21.7	22.4	23.1	23.5	23.3	23.3	23.3	23.3	23.4	23.5	23.5	23.5	23.5	19.4	23.5	21.7
Apr 8	23.5	23.5	23.4	23.1	22.7	22.5	22.4	22.5	22.7	23.4	23.4	23.3	23.2	23.3	23.4	23.4	23.5	23.5	23.5	23.5	23.3	23.0	22.7	22.4	22.4	23.5	23.1
Apr 9	22.1	21.7	21.3	21.0	20.8	20.5	20.2	19.9	19.6	19.4	19.3	19.3	19.2	19.1	19.1	19.2	19.3	19.3	19.2	19.0	19.1	19.8	20.2	20.4	19.0	22.1	19.9
Apr 10	20.5	20.6	20.6	20.6	20.6	20.5	20.5	20.3	19.9	19.7	19.6	19.8	19.8	19.9	19.8	19.7	19.6	19.5	19.4	19.2	19.1	19.2	19.0	18.8	18.8	20.6	19.8
Apr 11	18.9	18.9	18.7	18.7	18.4	18.2	18.0	18.0	18.4	18.8	19.1	19.3	19.5	19.7	19.9	20.0	20.0	20.0	19.9	19.7	19.5	19.4	19.1	18.9	18.0	20.0	19.1
Apr 12	18.6	18.3	18.1	17.9	17.6	17.4	17.2	17.0	16.9	16.8	16.9	17.1	17.5	17.7	17.9	18.1	18.3	18.5	18.7	18.9	18.9	18.9	18.7	18.6	16.8	18.9	17.9
Apr 13	18.4	18.1	17.8	17.5	17.1	16.7	**16.5**	16.8	17.3	17.8	18.2	18.6	19.0	19.3	19.5	19.8	20.1	20.4	20.5	20.3	20.2	19.9	19.6	19.1	**16.5**	20.5	18.7
Apr 14	18.8	18.8	18.6	18.4	18.2	17.9	17.7	18.1	18.7	19.4	19.9	20.4	20.3	19.6	19.4	19.3	19.3	19.3	19.4	19.2	18.9	19.6	20.0	20.1	17.7	20.4	19.1
Apr 15	20.1	20.2	20.1	20.1	20.0	19.9	19.8	19.9	20.3	20.3	19.8	19.8	19.8	19.8	19.9	20.0	20.1	20.2	20.1	20.0	19.7	19.3	18.9	19.6	18.9	20.3	19.9
Apr 16	19.8	19.9	19.8	19.8	19.8	19.8	19.8	20.1	20.4	20.0	20.1	19.9	20.3	20.2	20.3	20.3	20.3	20.2	20.1	19.9	19.7	19.4	19.2	18.9	18.9	20.4	19.9
Apr 17	19.5	20.0	20.2	20.3	20.4	20.3	20.4	20.1	19.8	19.7	19.8	20.2	20.4	20.6	20.7	20.7	20.6	20.4	20.2	19.7	19.7	19.5	19.4	19.3	19.3	20.7	20.1
Apr 18	19.2	19.0	18.9	18.9	18.9	18.8	18.8	18.9	19.0	19.5	19.9	20.2	20.3	19.5	19.2	19.0	19.0	18.9	18.8	19.3	19.7	19.8	19.8	19.7	18.8	20.3	19.3
Apr 19	19.6	19.5	19.4	19.3	19.3	19.2	19.2	19.1	18.8	21.1	21.8	23.1	23.6	23.7	23.5	22.6	22.1	21.4	21.3	21.5	21.5	21.3	20.9	21.7	18.8	23.7	21.0
Apr 20	21.1	20.7	21.0	20.5	20.2	21.2	21.6	21.9	21.6	22.0	22.3	22.4	22.7	22.9	23.1	23.2	23.4	23.3	23.3	23.3	23.1	22.7	22.6	22.2	20.2	23.4	22.2
Apr 21	22.2	22.1	21.8	21.5	21.4	21.3	21.5	21.4	21.4	22.3	22.8	23.3	23.5	23.3	23.3	23.3	23.3	23.3	23.4	23.6	23.5	23.3	22.9	22.6	21.3	23.6	22.6
Apr 22	22.4	22.1	21.9	21.9	21.7	21.2	21.1	21.8	22.6	23.2	23.5	23.4	23.1	23.0	23.1	23.1	23.2	23.2	23.3	23.4	23.5	23.4	23.2	22.9	21.1	23.5	22.7
Apr 23	22.8	22.4	22.3	22.2	22.1	22.0	22.3	22.8	23.3	23.5	23.3	23.1	23.0	23.1	23.0	23.1	23.1	23.2	23.3	23.3	23.5	23.6	23.6	23.5	22.0	23.6	23.0
Apr 24	23.3	23.3	23.2	23.0	23.0	22.8	22.7	22.9	23.4	23.5	23.3	23.2	23.1	23.0	23.1	23.1	23.2	23.2	23.3	23.3	23.4	23.5	23.6	23.5	22.7	23.6	23.2
Apr 25	23.6	23.6	23.7	23.7	23.6	23.4	23.4	23.5	23.5	23.4	23.2	23.1	23.1	23.0	23.0	23.1	23.2	23.2	23.3	23.3	23.4	23.5	23.6	23.6	23.0	23.7	23.4
Apr 26	**23.8**	23.6	23.4	23.2	23.1	22.9	22.9	23.1	23.4	23.6	23.6	23.4	23.4	23.4	23.3	23.4	23.3	23.4	23.5	23.6	23.6	23.6	23.6	23.5	22.9	**23.8**	**23.4**
Apr 27	23.4	23.5	23.4	23.4	23.4	23.5	23.5	23.5	23.4	23.3	23.3	23.4	23.3	23.5	23.3	23.5	23.3	23.3	23.3	23.5	23.3	23.4	23.2	23.2	23.2	23.5	23.4
Apr 28	23.2	23.0	22.9	22.8	22.8	22.8	22.6	22.7	22.6	22.5	22.7	22.8	22.8	22.8	22.8	22.9	22.9	22.9	22.8	22.8	22.8	22.8	22.8	22.7	22.5	23.2	22.8
Apr 29	22.5	22.5	22.5	22.4	22.2	22.4	22.4	22.3	22.3	22.3	22.3	22.3	22.3	22.4	22.6	22.7	22.8	22.8	22.9	22.8	22.7	22.7	22.7	22.7	22.2	22.9	22.5
Apr 30	22.7	22.6	22.5	22.5	22.3	22.3	22.2	22.2	22.2	22.3	22.6	22.8	22.9	23.1	23.1	23.5	23.5	23.5	23.5	23.6	23.6	23.6	23.4	23.3	22.2	23.6	22.9
Diurnal Maximum	23.8	23.6	23.7	23.7	23.6	23.5	23.5	23.5	23.5	23.6	23.6	23.4	23.6	23.7	23.5	23.5	23.5	23.5	23.5	23.6	23.6	23.6	23.6	23.6			
Diurnal Average	21.2	21.1	20.9	20.8	20.7	20.5	20.5	20.5	20.7	21.0	21.2	21.4	21.6	21.7	21.7	21.8	21.8	21.8	21.8	21.8	21.8	21.7	21.6	21.5			

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 - Peace River Complex (PRC) Station



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PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - April 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

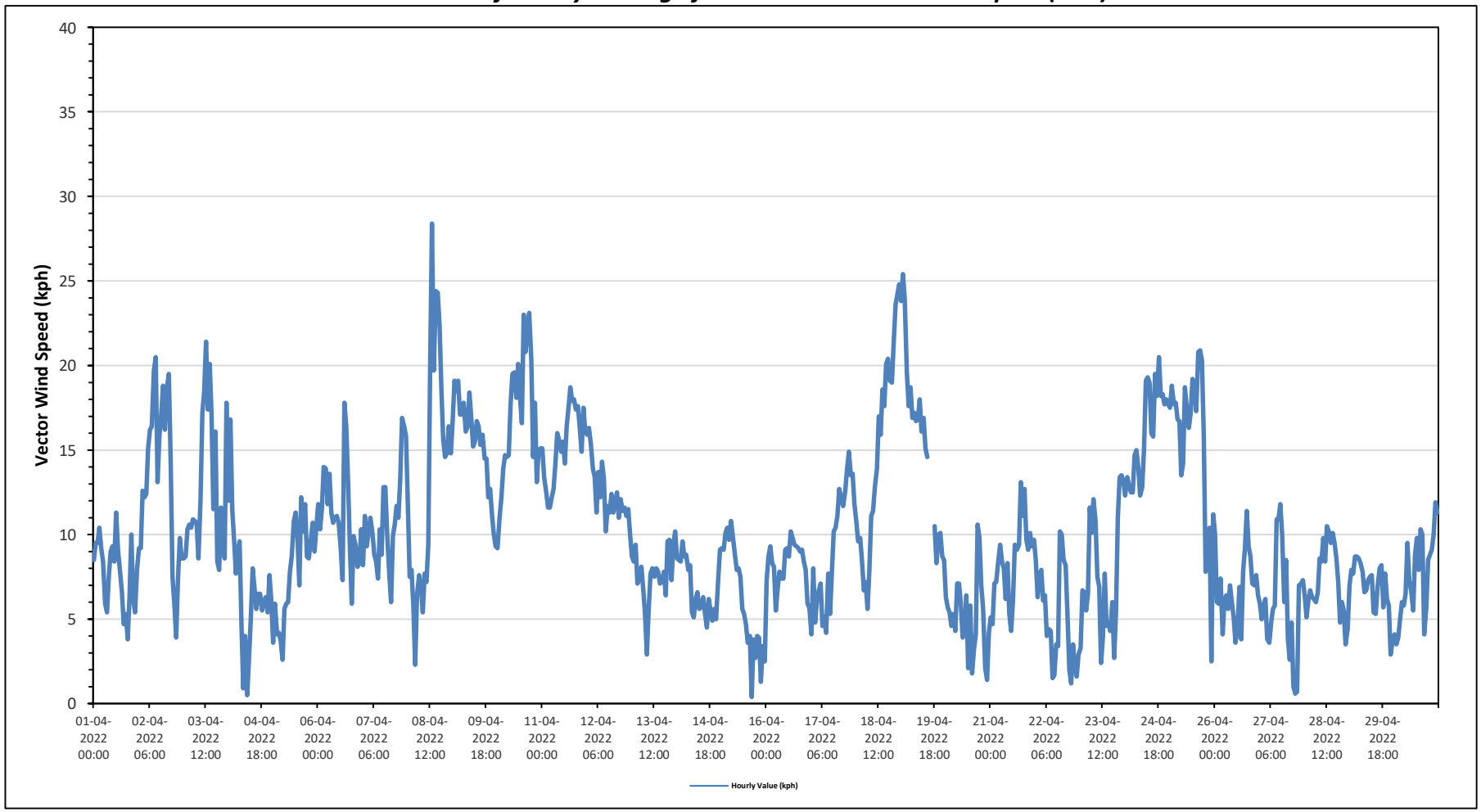
Maximum Hourly Value:	28.4	kph	on April 8 at hour 13	Hours in Service:	720
Maximum Daily Value:	16.4	kph	on April 10	Hours of Data:	717
Minimum Hourly Value:	0.4	kph	on April 15 at hour 16	Hours of Missing Data:	3
Minimum Daily Value:	0.7	kph	on April 20	Hours of Calibration:	0
Monthly Average:	1.8	kph		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			
Apr 1	8.5	9.5	9.5	10.4	9.2	8.4	5.9	5.4	7.5	9.0	9.3	8.4	11.3	9.1	7.8	6.6	4.7	5.3	3.8	6.3	10.0	6.2	5.4	8.0	3.8	11.3	3.8
Apr 2	9.2	9.2	12.6	12.2	12.4	15.1	16.2	16.4	19.7	20.5	13.1	15.8	17.1	18.8	16.2	18.6	19.5	14.4	7.5	5.9	3.9	7.4	9.8	8.6	3.9	20.5	9.8
Apr 3	8.6	8.7	10.3	10.6	10.4	10.9	10.8	10.7	8.6	12.1	17.2	18.5	21.4	17.4	20.1	17.1	11.5	16.1	8.4	7.9	11.6	9.3	8.6	17.8	7.9	21.4	11.4
Apr 4	12.0	16.8	11.5	9.7	7.7	9.0	9.6	4.8	0.9	4.0	0.5	2.7	5.1	8.0	6.8	5.6	6.5	6.5	5.5	6.1	6.3	5.4	7.6	6.1	0.5	16.8	2.9
Apr 5	3.6	5.9	4.1	4.2	3.7	2.6	5.6	5.9	6.0	7.8	8.7	10.8	11.3	9.8	7.0	12.2	10.2	11.8	8.7	8.6	9.7	10.7	9.0	10.5	2.6	12.2	6.8
Apr 6	11.8	10.3	11.5	14.0	13.9	11.8	13.6	11.3	10.7	11.0	11.1	10.7	9.4	7.3	17.8	16.4	13.1	9.2	5.9	9.9	9.4	8.1	8.3	10.3	5.9	17.8	9.1
Apr 7	8.2	11.1	9.3	10.1	11.0	10.1	8.8	8.4	7.4	10.3	8.8	12.8	12.8	10.1	7.7	6.0	9.9	10.6	11.7	11.0	13.3	16.9	16.4	15.8	6.0	16.9	9.1
Apr 8	11.8	7.5	7.9	5.8	2.3	6.4	7.6	6.9	5.4	7.7	7.2	9.4	19.8	**28.4**	19.7	24.4	24.3	22.4	18.6	15.6	14.6	14.8	16.4	14.8	2.3	**28.4**	8.8
Apr 9	16.7	19.1	18.5	19.1	17.1	17.1	17.8	16.1	16.4	18.4	16.9	15.2	15.5	16.7	16.4	15.3	15.9	14.5	14.5	12.2	12.7	11.2	10.0	9.3	9.3	19.1	14.9
Apr 10	9.2	11.0	12.2	13.9	14.7	14.6	14.7	17.7	19.5	19.6	18.1	20.1	18.1	16.6	23.0	20.8	21.9	23.1	20.4	14.6	17.8	13.1	15.0	15.1	9.2	23.1	**16.4**
Apr 11	15.1	13.4	12.5	11.6	11.6	12.2	12.7	14.2	16.0	15.6	14.9	15.5	14.2	16.4	17.5	18.7	17.9	18.0	17.4	17.6	16.3	14.9	17.5	16.1	11.6	18.7	15.2
Apr 12	15.9	16.3	15.4	13.9	13.4	11.3	13.7	12.2	14.3	13.3	10.2	11.7	11.3	12.4	11.3	11.9	12.5	11.0	12.1	11.4	11.6	11.1	11.5	10.0	10.0	16.3	12.3
Apr 13	8.7	8.4	9.4	7.1	7.4	8.1	6.8	5.3	2.9	5.6	7.7	8.0	7.5	8.0	7.8	7.1	7.2	7.8	6.4	9.6	9.7	7.3	9.4	10.2	2.9	10.2	6.9
Apr 14	8.6	8.5	8.4	9.6	8.7	8.8	7.9	8.2	5.4	5.1	6.2	6.6	5.6	5.7	6.3	5.3	4.5	6.2	5.5	4.9	5.6	5.0	7.3	9.1	4.5	9.6	6.1
Apr 15	9.2	9.1	10.1	10.4	9.7	10.8	9.9	8.8	7.9	8.0	7.5	5.6	5.3	4.7	3.6	4.0	**0.4**	3.8	2.7	4.0	3.9	1.3	3.4	2.5	**0.4**	10.8	5.0
Apr 16	7.3	8.7	9.3	8.3	8.1	5.5	6.8	7.8	7.4	7.4	9.1	9.2	8.7	10.2	9.8	9.4	9.3	9.2	9.0	9.1	8.4	7.9	5.9	5.7	5.5	10.2	8.0
Apr 17	4.1	8.0	4.8	6.1	6.7	7.1	4.6	5.1	4.2	7.7	5.3	7.8	10.2	10.4	11.1	12.7	12.1	11.7	12.6	13.9	14.9	13.5	13.6	11.8	4.1	14.9	7.3
Apr 18	10.8	9.6	9.8	8.4	6.7	7.2	5.6	7.9	11.1	11.4	12.8	13.9	17.0	15.9	18.6	17.6	20.1	20.4	19.1	19.0	21.4	23.6	24.2	24.8	5.6	24.8	13.6
Apr 19	23.8	25.4	23.9	19.6	17.6	18.7	16.9	17.2	16.7	16.8	18.0	16.1	16.9	15.1	14.6	Y	Y	Y	10.5	8.3	10.0	10.1	8.7	8.5	8.3	25.4	15.1
Apr 20	6.3	5.7	5.4	4.6	5.3	4.3	7.1	7.1	5.9	3.9	4.1	6.4	2.1	5.8	1.8	3.2	4.1	10.6	9.8	7.0	5.6	2.1	1.4	4.2	1.4	10.6	**0.7**
Apr 21	5.1	4.7	7.1	7.2	8.3	9.4	8.4	8.0	6.2	8.3	5.3	4.3	6.1	9.4	9.1	9.4	13.1	11.1	12.7	9.7	9.1	10.1	9.3	9.7	4.3	13.1	4.3
Apr 22	8.5	6.3	7.5	7.9	6.1	6.4	4.0	4.4	4.3	1.5	1.7	3.5	3.4	10.2	10.0	8.5	8.2	5.2	2.0	1.2	3.5	2.2	1.6	2.9	1.2	10.2	3.3
Apr 23	3.3	6.7	6.6	5.5	6.5	11.6	10.1	12.1	10.8	7.5	6.9	2.4	3.9	7.7	4.6	4.8	4.3	6.0	2.7	5.4	11.0	13.4	13.5	13.2	2.4	13.5	5.5
Apr 24	12.3	13.4	12.9	12.5	12.5	14.7	15.0	14.0	12.3	12.8	15.1	19.1	19.3	19.0	16.0	15.8	19.5	18.2	20.5	18.2	18.3	17.7	18.0	17.7	12.3	20.5	15.6
Apr 25	17.5	18.8	17.7	17.8	16.8	16.7	13.5	14.2	18.7	17.5	16.3	17.2	19.2	18.9	17.3	20.8	20.9	20.3	15.8	7.8	9.1	10.4	2.5	11.2	2.5	20.9	15.4
Apr 26	10.0	6.0	5.9	7.4	4.1	6.2	6.4	5.6	7.0	6.0	5.1	3.6	4.5	6.9	3.8	7.8	9.2	11.4	9.3	8.7	7.1	7.0	7.6	6.4	3.6	11.4	3.2
Apr 27	5.9	5.0	5.8	6.2	3.8	3.6	4.8	5.6	5.8	10.9	10.9	11.8	10.0	6.0	8.5	3.8	2.6	4.8	1.0	0.6	0.7	7.0	7.1	7.3	0.6	11.8	2.8
Apr 28	6.4	5.1	6.1	6.7	6.3	6.2	6.0	6.6	8.6	8.4	9.8	8.4	10.5	10.2	9.5	10.1	9.5	8.6	7.2	4.8	6.0	5.5	3.5	4.4	3.5	10.5	6.0
Apr 29	7.0	7.9	7.7	8.7	8.7	8.6	8.3	7.8	6.6	6.7	7.3	7.5	7.6	5.4	5.3	6.9	8.0	8.2	5.7	7.7	6.2	5.8	2.9	3.7	2.9	8.7	6.7
Apr 30	4.1	3.5	3.9	5.0	6.0	5.8	6.5	9.5	7.3	6.6	5.5	8.8	9.8	7.9	10.3	10.0	4.1	5.7	8.5	8.8	9.1	10.0	11.9	11.3	3.5	11.9	6.8
Diurnal Maximum	24	25	24	20	18	19	18	18	20	21	18	20	21	28	23	24	24	23	21	19	21	24	24	25			
Diurnal Average	9.7	10.0	9.9	9.8	9.2	9.6	9.5	9.5	9.4	10.0	9.7	10.4	11.2	11.6	11.3	11.4	11.2	11.5	9.9	9.2	9.9	9.6	9.6	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.

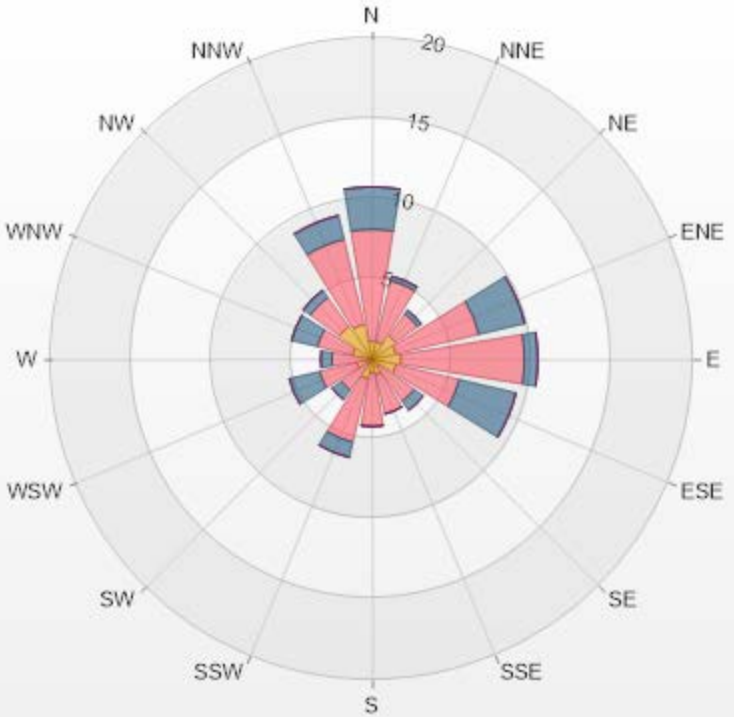
Timeseries Chart of Hourly Average for VWS - Peace River Complex (PRC) Station



Wind: Peace River Complex [PRC] Monitor: WDS [KPH] Monthly: 04-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 1.81% Valid Data: 99.58%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.12	6.97	2.65	0	0	10.74
NNE	1.12	3.91	0.28	0	0	5.31
NE	1.81	1.67	0.28	0	0	3.76
ENE	1.53	5.3	2.93	0	0	9.76
E	1.81	7.67	0.84	0	0	10.32
ESE	1.53	4.04	3.63	0	0	9.2
SE	0.56	2.65	0.7	0	0	3.91
SSE	0.98	2.51	0	0	0	3.49
S	0.84	3.35	0	0	0	4.19
SSW	1.26	4.04	0.98	0	0	6.28
SW	0.28	2.09	0.7	0	0	3.07
WSW	0.98	2.37	1.95	0	0	5.3
W	0	2.51	0.7	0	0	3.21
WNW	1.26	2.23	1.67	0	0	5.16
NW	2.51	2.23	0.56	0	0	5.3
NNW	2.23	5.44	1.53	0	0	9.2
Summary	19.82	58.98	19.4	0	0	98.2

Peace River Complex [PRC] 01-04-2022 00:00 - 30-04-2022 23:00 Calm: 1.81% Calm Wind Avg Speed: 1.12(KPH)



% Icon Classes (KPH)	20 1.8-6.0	59 6.0-15.0	19 15.0-29.0	0 29.0-39.0	0 >39.0

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PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - April 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

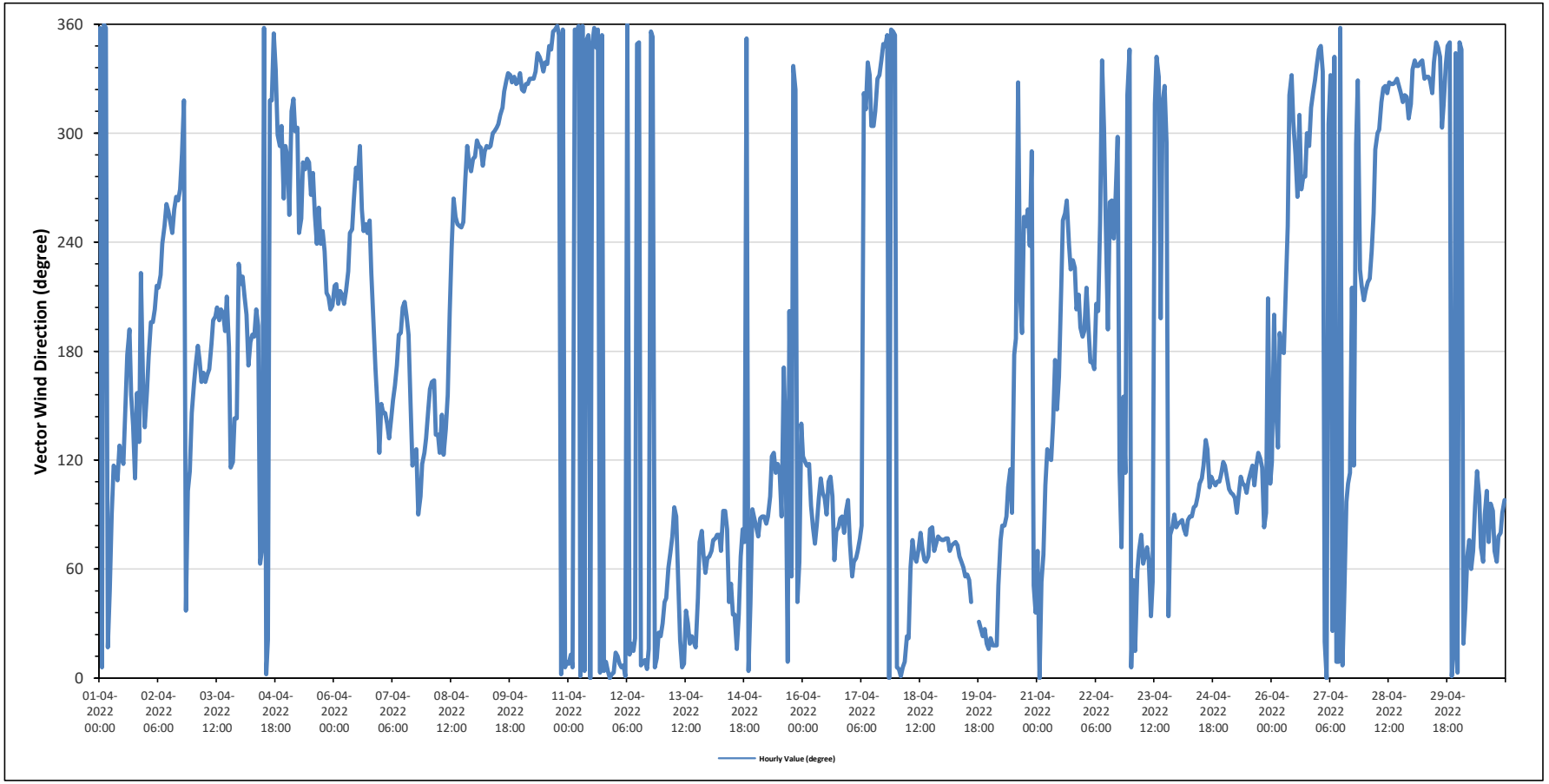
Monthly Average:	41 (NE)	degree	
Hours in Service:	720		
Hours of Data:	717		
Hours of Missing Data:	3		
Hours of Calibration:	0		
Operational Uptime:	99.6		

Day	Hourly Period Starting at (MST)																						Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Apr 1	N	N	N	N	NNE	NE	E	ESE	ESE	ESE	SE	ESE	ESE	SSE	S	S	SSE	SE	ESE	SSE	SE	SW	SSE	SE	110	ESE
Apr 2	SSE	S	SSW	SSW	SSW	SW	SSW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	W	W	W	WNW	NW	NE	ESE	ESE	SE	234	SW
Apr 3	SSE	S	S	S	SSE	SSE	SSE	SSE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	S	ESE	ESE	SE	SE	SW	184	S
Apr 4	SW	SW	SSW	SSW	S	S	S	S	SSW	SSW	ENE	ENE	N	N	NNE	NW	NW	N	NNW	WNW	WNW	WNW	W	WNW	248	WSW
Apr 5	WNW	WSW	NW	NW	WNW	WNW	WSW	WSW	WNW	W	WNW	WNW	W	W	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SSW	SSW	253	WSW
Apr 6	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	W	W	W	WNW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSE	SSE	ESE	229	SW
Apr 7	SSE	SE	SE	SE	SE	SE	SSE	SSE	S	S	S	SSW	SSW	SSW	S	SSE	ESE	ESE	SE	E	E	ESE	ESE	SE	147	SE
Apr 8	SE	SSE	SSE	SSE	SE	SE	ESE	SE	ESE	SE	SSE	SSW	SW	W	WSW	WSW	WSW	WSW	WSW	W	WNW	W	W	WNW	240	WSW
Apr 9	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	307	NW
Apr 10	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	344	NNW
Apr 11	N	NNE	N	N	N	N	N	N	N	N	N	N	NNW	N	NNW	N	N	N	N	N	N	N	N	N	360	N
Apr 12	NNE	NNE	N	N	N	N	N	NNE	NNE	NNE	NNE	NNW	N	N	N	N	N	NNE	N	N	N	NNE	NNE	NNE	8	N
Apr 13	NNE	NE	NE	ENE	ENE	ENE	E	E	NE	NNE	N	N	NE	NNE	NNE	NNE	NNE	NNE	NE	ENE	E	ENE	ENE	ENE	47	NE
Apr 14	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	NE	NE	NE	NE	NNE	NE	ENE	E	ENE	N	N	NE	E	E	64	ENE
Apr 15	E	ENE	E	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE	E	S	SE	N	SSW	NE	NNW	NW	NE	ENE	SE	97	E
Apr 16	ESE	ESE	ESE	ESE	E	E	ENE	E	E	ESE	E	E	E	ESE	ESE	E	ENE	E	E	E	E	E	E	E	97	E
Apr 17	ENE	NE	ENE	ENE	ENE	ENE	E	NW	NW	NNW	NNW	WNW	WNW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	353	N
Apr 18	N	N	N	N	N	NNE	NNE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE	E	E	ENE	ENE	ENE	ENE	ENE	64	ENE
Apr 19	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	ENE	NE	NE	Y	Y	Y	NNE	NNE	NNE	NNE	NNE	NNE	61	ENE
Apr 20	NNE	NNE	NNE	NNE	NE	ENE	E	E	E	ESE	ESE	E	S	S	NNW	SSW	S	WSW	WSW	WSW	SW	WNW	NE	NE	73	ENE
Apr 21	ENE	N	NE	ENE	ESE	SE	ESE	ESE	SE	S	SE	SSE	SSW	WSW	WSW	W	WSW	SW	SW	SW	SSW	SSW	S	S	193	S
Apr 22	S	SSW	S	S	S	SSE	SSW	SSW	WSW	NNW	WNW	WSW	S	W	W	WSW	W	WNW	ESE	ENE	SSE	ESE	NW	NNW	223	SW
Apr 23	N	NE	NNE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NW	NNW	NNW	SSW	NW	NW	WNW	NE	ENE	E	E	E	56	NE
Apr 24	E	E	E	E	ENE	E	E	E	E	E	E	ESE	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	103	ESE
Apr 25	ESE	ESE	ESE	E	E	E	E	E	ESE	ESE	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	SSW	ESE	108	ESE
Apr 26	ESE	SSW	SSE	SE	S	S	S	SSW	WSW	NW	NNW	NW	WNW	W	NW	W	W	W	WNW	WNW	NW	NW	NNW	NNW	273	W
Apr 27	NNW	NNW	NNW	NNE	N	WNW	NNW	NNE	NNW	N	N	N	N	NE	E	ESE	ESE	SSW	ESE	WNW	NNW	SW	SW	SSW	0	N
Apr 28	SSW	SW	SW	SW	WSW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NW	NW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	309	NW
Apr 29	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	N	NNW	NNW	WNW	NW	NNW	NNW	N	N	NNE	NNW	N	338	NNW
Apr 30	N	NNW	NNE	NE	ENE	ENE	ENE	ENE	E	ESE	E	ENE	ENE	E	ESE	ENE	E	E	ENE	ENE	ENE	E	E	E	77	ENE

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 - Peace River Complex (PRC) Station



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PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - April 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	28.4	kph	on April 8 at hour 13	Hours in Service:	720
Maximum Daily Value:	16.4	kph	on April 10	Hours of Data:	717
Minimum Hourly Value:	0.4	kph	on April 15 at hour 16	Hours of Missing Data:	3
Minimum Daily Value:	0.7	kph	on April 20	Hours of Calibration:	0
Monthly Average:	1.8	kph		Operational Uptime:	99.6

WIND DIRECTION

Monthly Average: 41 (NE) 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			
Apr 1	8.5	9.5	9.5	10.4	9.2	8.4	5.9	5.4	7.5	9.0	9.3	8.4	11.3	9.1	7.8	6.6	4.7	5.3	3.8	6.3	10.0	6.2	5.4	8.0	3.8	11.3	3.8
	N	N	N	N	NNE	NE	E	ESE	ESE	ESE	SE	ESE	ESE	SSE	S	S	SSE	SE	ESE	SSE	SE	SW	SSE	SE			
Apr 2	9.2	9.2	12.6	12.2	12.4	15.1	16.2	16.4	19.7	20.5	13.1	15.8	17.1	18.8	16.2	18.6	19.5	14.4	7.5	5.9	3.9	7.4	9.8	8.6	3.9	20.5	9.8
	SSE	S	SSW	SSW	SSW	SW	SSW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	W	W	W	WNW	NW	NE	ESE	ESE	SE			
Apr 3	8.6	8.7	10.3	10.6	10.4	10.9	10.8	10.7	8.6	12.1	17.2	18.5	21.4	17.4	20.1	17.1	11.5	16.1	8.4	7.9	11.6	9.3	8.6	17.8	7.9	21.4	11.4
	SSE	S	S	S	SSE	SSE	SSE	SSE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	S	ESE	ESE	SE	SE	SW			
Apr 4	12.0	16.8	11.5	9.7	7.7	9.0	9.6	4.8	0.9	4.0	0.5	2.7	5.1	8.0	6.8	5.6	6.5	6.5	5.5	6.1	6.3	5.4	7.6	6.1	0.5	16.8	2.9
	SW	SW	SSW	SSW	S	S	S	S	SSW	SSW	ENE	ENE	N	N	NNE	NW	NW	N	NNW	WNW	WNW	WNW	W	WNW			
Apr 5	3.6	5.9	4.1	4.2	3.7	2.6	5.6	5.9	6.0	7.8	8.7	10.8	11.3	9.8	7.0	12.2	10.2	11.8	8.7	8.6	9.7	10.7	9.0	10.5	2.6	12.2	6.8
	WNW	WSW	NW	NW	WNW	WNW	WSW	WSW	WNW	W	WNW	WNW	W	W	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	SSW	SSW			
Apr 6	11.8	10.3	11.5	14.0	13.9	11.8	13.6	11.3	10.7	11.0	11.1	10.7	9.4	7.3	17.8	16.4	13.1	9.2	5.9	9.9	9.4	8.1	8.3	10.3	5.9	17.8	9.1
	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	W	W	W	WNW	WSW	WSW	WSW	WSW	WSW	SW	SSW	SSE	SSE	ESE			
Apr 7	8.2	11.1	9.3	10.1	11.0	10.1	8.8	8.4	7.4	10.3	8.8	12.8	12.8	10.1	7.7	6.0	9.9	10.6	11.7	11.0	13.3	16.9	16.4	15.8	6.0	16.9	9.1
	SSE	SE	SE	SE	SE	SE	SSE	SSE	S	S	S	SSW	SSW	SSW	S	SSE	ESE	ESE	SE	E	E	ESE	ESE	SE			
Apr 8	11.8	7.5	7.9	5.8	2.3	6.4	7.6	6.9	5.4	7.7	7.2	9.4	19.8	**28.4**	19.7	24.4	24.3	22.4	18.6	15.6	14.6	14.8	16.4	14.8	2.3	**28.4**	8.8
	SE	SSE	SSE	SSE	SE	SE	ESE	SE	ESE	SE	SSE	SSW	SW	W	WSW	WSW	WSW	WSW	WSW	W	WNW	W	W	WNW			
Apr 9	16.7	19.1	18.5	19.1	17.1	17.1	17.8	16.1	16.4	18.4	16.9	15.2	15.5	16.7	16.4	15.3	15.9	14.5	14.5	12.2	12.7	11.2	10.0	9.3	9.3	19.1	14.9
	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW			
Apr 10	9.2	11.0	12.2	13.9	14.7	14.6	14.7	17.7	19.5	19.6	18.1	20.1	18.1	16.6	23.0	20.8	21.9	23.1	20.4	14.6	17.8	13.1	15.0	15.1	9.2	23.1	**16.4**
	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	N			
Apr 11	15.1	13.4	12.5	11.6	11.6	12.2	12.7	14.2	16.0	15.6	14.9	15.5	14.2	16.4	17.5	18.7	17.9	18.0	17.4	17.6	16.3	14.9	17.5	16.1	11.6	18.7	15.2
	N	NNE	N	N	N	N	N	N	N	N	N	N	NNW	N	NNW	N	N	N	N	N	N	N	N	N			
Apr 12	15.9	16.3	15.4	13.9	13.4	11.3	13.7	12.2	14.3	13.3	10.2	11.7	11.3	12.4	11.3	11.9	12.5	11.0	12.1	11.4	11.6	11.1	11.5	10.0	10.0	16.3	12.3
	NNE	NNE	N	N	N	N	N	NNE	NNE	NNE	NNE	NNW	N	N	N	N	N	NNE	N	N	N	NNE	NNE	NNE			
Apr 13	8.7	8.4	9.4	7.1	7.4	8.1	6.8	5.3	2.9	5.6	7.7	8.0	7.5	8.0	7.8	7.1	7.2	7.8	6.4	9.6	9.7	7.3	9.4	10.2	2.9	10.2	6.9
	NNE	NE	NE	ENE	ENE	ENE	E	E	NE	NNE	N	N	NE	NNE	NNE	NNE	NNE	NNE	NE	ENE	E	ENE	ENE	ENE			
Apr 14	8.6	8.5	8.4	9.6	8.7	8.8	7.9	8.2	5.4	5.1	6.2	6.6	5.6	5.7	6.3	5.3	4.5	6.2	5.5	4.9	5.6	5.0	7.3	9.1	4.5	9.6	6.1
	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	NE	NE	NE	NNE	NE	ENE	E	ENE	N	N	NE	E	E				
Apr 15	9.2	9.1	10.1	10.4	9.7	10.8	9.9	8.8	7.9	8.0	7.5	5.6	5.3	4.7	3.6	4.0	**0.4**	3.8	2.7	4.0	3.9	1.3	3.4	2.5	**0.4**	10.8	5.0
	E	ENE	E	E	E	E	E	E	ESE	ESE	ESE	ESE	ESE	E	S	SE	N	SSW	NE	NNW	NW	NE	ENE	SE			
Apr 16	7.3	8.7	9.3	8.3	8.1	5.5	6.8	7.8	7.4	7.4	9.1	9.2	8.7	10.2	9.8	9.4	9.3	9.2	9.0	9.1	8.4	7.9	5.9	5.7	5.5	10.2	8.0
	ESE	ESE	ESE	ESE	E	E	ENE	E	E	ESE	E	E	E	ESE	ESE	E	ENE	E	E	E	E	E	E	E			
Apr 17	4.1	8.0	4.8	6.1	6.7	7.1	4.6	5.1	4.2	7.7	5.3	7.8	10.2	10.4	11.1	12.7	12.1	11.7	12.6	13.9	14.9	13.5	13.6	11.8	4.1	14.9	7.3
	ENE	NE	ENE	ENE	ENE	ENE	E	NW	NW	NNW	NNW	WNW	WNW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N			
Apr 18	10.8	9.6	9.8	8.4	6.7	7.2	5.6	7.9	11.1	11.4	12.8	13.9	17.0	15.9	18.6	17.6	20.1	20.4	19.1	19.0	21.4	23.6	24.2	24.8	5.6	24.8	13.6
	N	N	N	N	N	NNE	NNE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE	E	E	E	ENE	ENE	ENE	ENE			
Apr 19	23.8	25.4	23.9	19.6	17.6	18.7	16.9	17.2	16.7	16.8	18.0	16.1	16.9	15.1	14.6	**Y**	**Y**	**Y**	10.5	8.3	10.0	10.1	8.7	8.5	8.3	25.4	15.1
	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	ENE	NE	NE	**Y**	**Y**	**Y**	NNE	NNE	NNE	NNE	NNE	NNE			
Apr 20	6.3	5.7	5.4	4.6	5.3	4.3	7.1	7.1	5.9	3.9	4.1	6.4	2.1	5.8	1.8	3.2	4.1	10.6	9.8	7.0	5.6	2.1	1.4	4.2	1.4	10.6	**0.7**
	NNE	NNE	NNE	NNE	NE	ENE	E	E	E	ESE	ESE	E	S	S	NNW	SSW	S	WSW	WSW	WSW	SW	WNW	NE	NE			

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - April 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	28.4	kph	on April 8 at hour 13	Hours in Service:	720
Maximum Daily Value:	16.4	kph	on April 10	Hours of Data:	717
Minimum Hourly Value:	0.4	kph	on April 15 at hour 16	Hours of Missing Data:	3
Minimum Daily Value:	0.7	kph	on April 20	Hours of Calibration:	0
Monthly Average:	1.8	kph		Operational Uptime:	99.6

WIND DIRECTION

Monthly Average: 41 (NE) degree

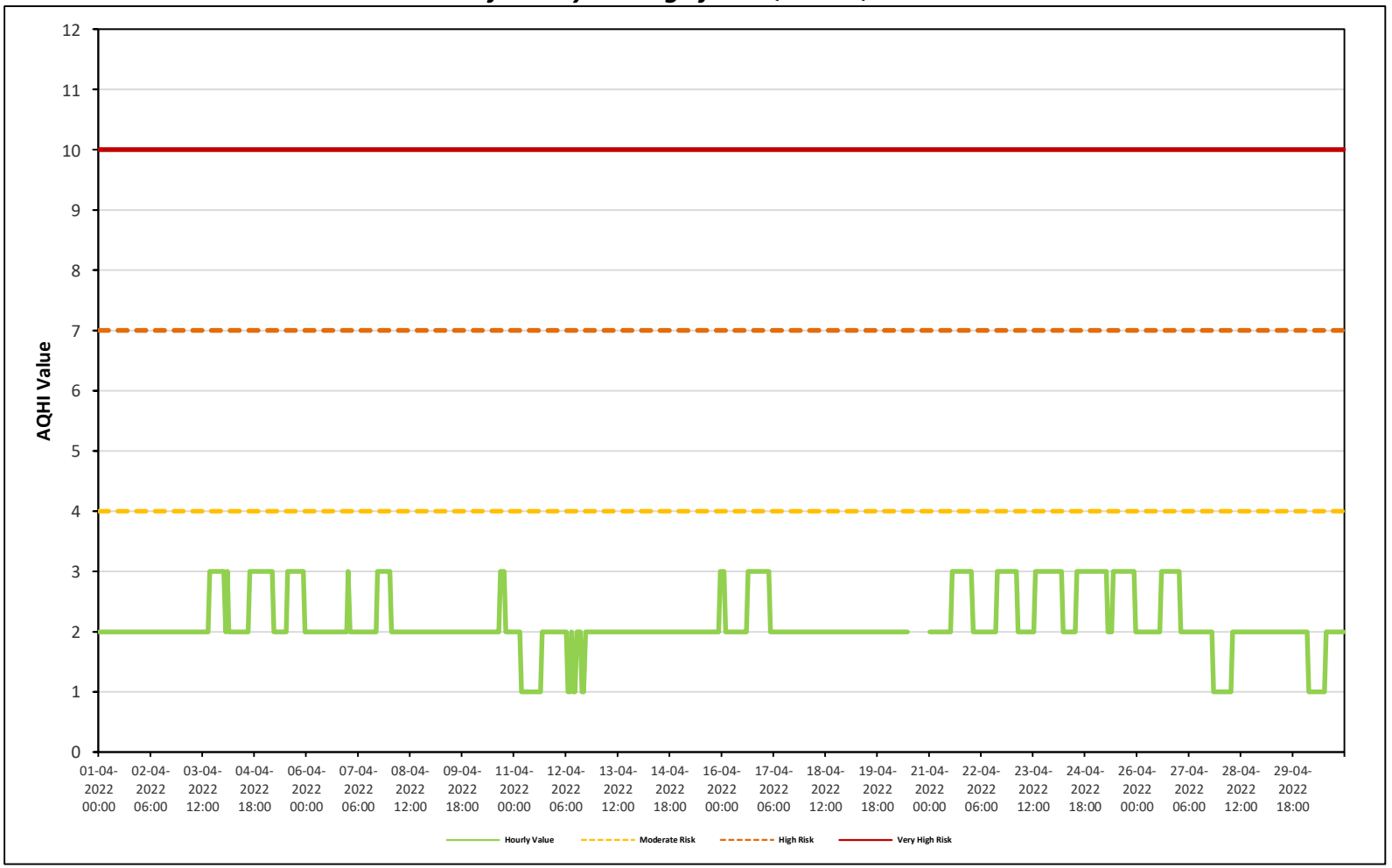
Day	Hourly Period Starting at (MST)																						Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Apr 21	5.1	4.7	7.1	7.2	8.3	9.4	8.4	8.0	6.2	8.3	5.3	4.3	6.1	9.4	9.1	9.4	13.1	11.1	12.7	9.7	9.1	10.1	9.3	9.7	4.3	13.1	4.3
	ENE	N	NE	ENE	ESE	SE	ESE	ESE	SE	S	SE	SSE	SSW	WSW	WSW	W	WSW	SW	SW	SW	SSW	SSW	S	S			
Apr 22	8.5	6.3	7.5	7.9	6.1	6.4	4.0	4.4	4.3	1.5	1.7	3.5	3.4	10.2	10.0	8.5	8.2	5.2	2.0	1.2	3.5	2.2	1.6	2.9	1.2	10.2	3.3
	S	SSW	S	S	S	SSE	SSW	SSW	WSW	NNW	WNW	WSW	S	W	W	WSW	W	WNW	ESE	ENE	SSE	ESE	NW	NNW			
Apr 23	3.3	6.7	6.6	5.5	6.5	11.6	10.1	12.1	10.8	7.5	6.9	2.4	3.9	7.7	4.6	4.8	4.3	6.0	2.7	5.4	11.0	13.4	13.5	13.2	2.4	13.5	5.5
	N	NE	NNE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE	NW	NNW	NNW	SSW	NW	NW	WNW	NE	ENE	E	E	E			
Apr 24	12.3	13.4	12.9	12.5	12.5	14.7	15.0	14.0	12.3	12.8	15.1	19.1	19.3	19.0	16.0	15.8	19.5	18.2	20.5	18.2	18.3	17.7	18.0	17.7	12.3	20.5	15.6
	E	E	E	E	ENE	E	E	E	E	E	E	ESE	ESE	ESE	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE			
Apr 25	17.5	18.8	17.7	17.8	16.8	16.7	13.5	14.2	18.7	17.5	16.3	17.2	19.2	18.9	17.3	20.8	20.9	20.3	15.8	7.8	9.1	10.4	2.5	11.2	2.5	20.9	15.4
	ESE	ESE	ESE	E	E	E	E	E	ESE	ESE	ESE	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	SSW	ESE			
Apr 26	10.0	6.0	5.9	7.4	4.1	6.2	6.4	5.6	7.0	6.0	5.1	3.6	4.5	6.9	3.8	7.8	9.2	11.4	9.3	8.7	7.1	7.0	7.6	6.4	3.6	11.4	3.2
	ESE	SSW	SSE	SE	S	S	S	SSW	WSW	NW	NNW	NW	WNW	W	NW	W	W	W	WNW	WNW	NW	NW	NNW	NNW			
Apr 27	5.9	5.0	5.8	6.2	3.8	3.6	4.8	5.6	5.8	10.9	10.9	11.8	10.0	6.0	8.5	3.8	2.6	4.8	1.0	0.6	0.7	7.0	7.1	7.3	0.6	11.8	2.8
	NNW	NNW	NNW	NNE	N	WNW	NNW	NNE	NNW	N	N	N	N	NE	E	ESE	ESE	SSW	ESE	WNW	NNW	SW	SW	SSW			
Apr 28	6.4	5.1	6.1	6.7	6.3	6.2	6.0	6.6	8.6	8.4	9.8	8.4	10.5	10.2	9.5	10.1	9.5	8.6	7.2	4.8	6.0	5.5	3.5	4.4	3.5	10.5	6.0
	SSW	SW	SW	SW	WSW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NW	NW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW			
Apr 29	7.0	7.9	7.7	8.7	8.7	8.6	8.3	7.8	6.6	6.7	7.3	7.5	7.6	5.4	5.3	6.9	8.0	8.2	5.7	7.7	6.2	5.8	2.9	3.7	2.9	8.7	6.7
	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	N	NNW	NNW	WNW	NW	NNW	NNW	N	N	NNE	NNW	N			
Apr 30	4.1	3.5	3.9	5.0	6.0	5.8	6.5	9.5	7.3	6.6	5.5	8.8	9.8	7.9	10.3	10.0	4.1	5.7	8.5	8.8	9.1	10.0	11.9	11.3	3.5	11.9	6.8
	N	NNW	NNE	NE	ENE	ENE	ENE	ENE	E	ESE	E	ENE	ENE	E	ESE	ENE	E	E	ENE	ENE	ENE	E	E	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.

AQHI GRIMSHAW STATION

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



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - April 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

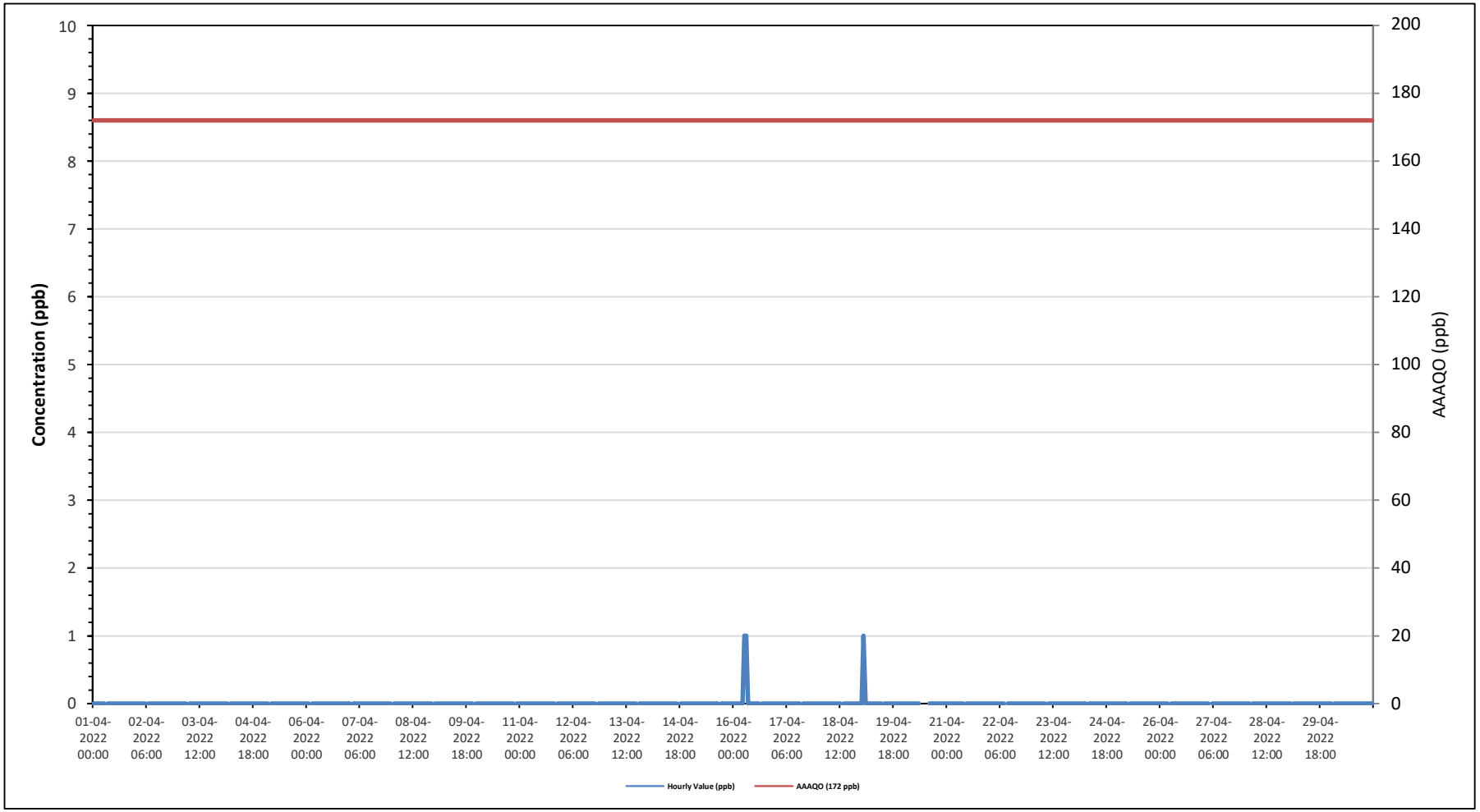
Maximum Hourly Value:	1	ppb	on April 16 at hour 6	Hours in Service:	720
Maximum Daily Value:	0.1	ppb	on April 16	Hours of Data:	685
Minimum Hourly Value:	0	ppb	on April 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on April 1	Hours of Calibration:	35
Monthly Average:	0.0	ppb		Operational Uptime:	100.0

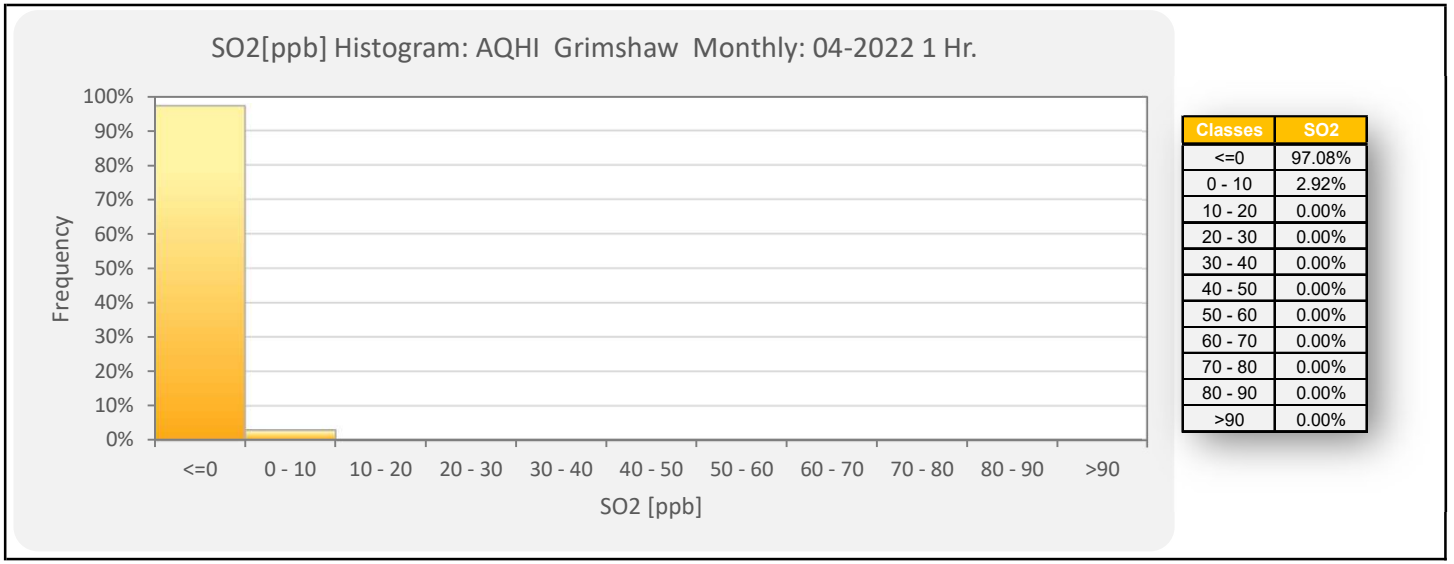
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 2	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Apr 3	0	0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

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

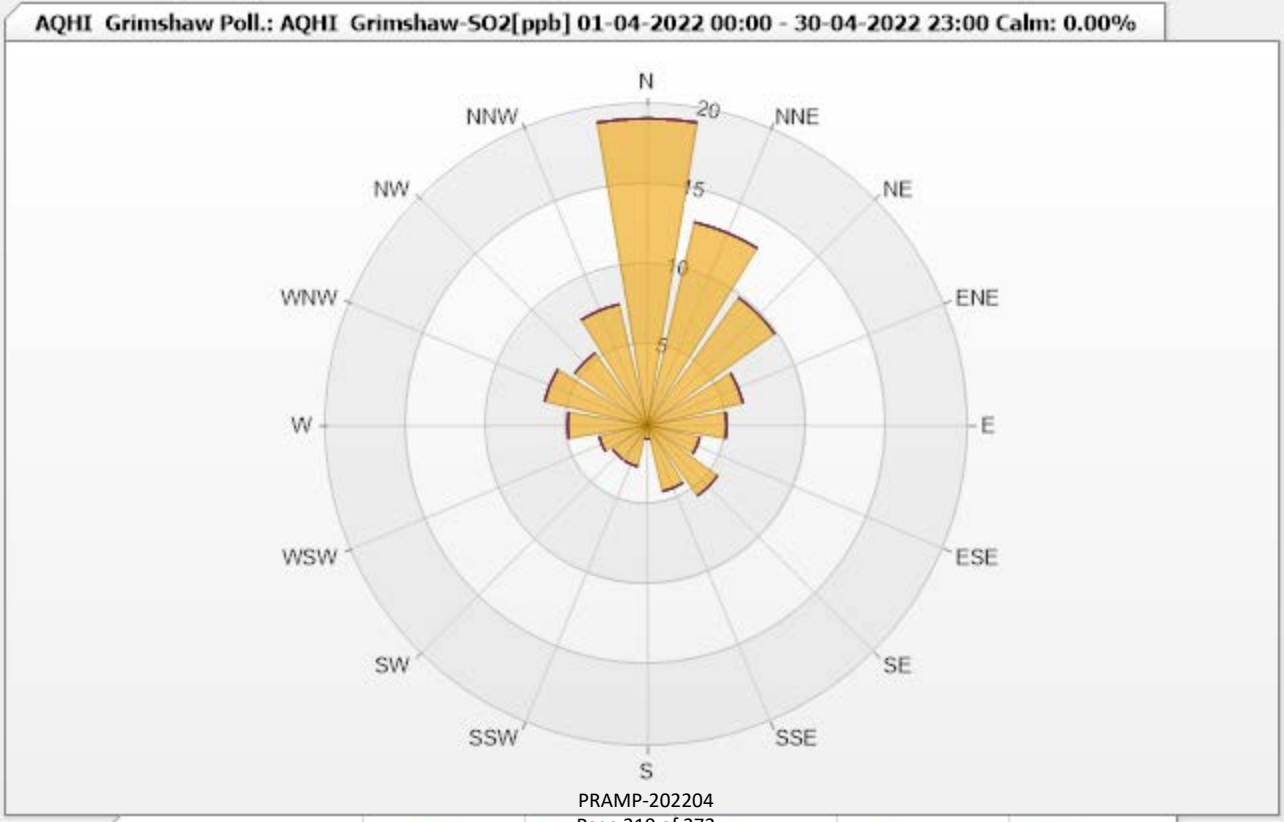




Classes	SO2
<=0	97.08%
0 - 10	2.92%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	19.12	0	0	0	0	19.12
NNE	12.99	0	0	0	0	12.99
NE	9.78	0	0	0	0	9.78
ENE	6.13	0	0	0	0	6.13
E	4.96	0	0	0	0	4.96
ESE	3.36	0	0	0	0	3.36
SE	5.4	0	0	0	0	5.4
SSE	4.23	0	0	0	0	4.23
S	0.88	0	0	0	0	0.88
SSW	2.63	0	0	0	0	2.63
SW	2.63	0	0	0	0	2.63
WSW	3.07	0	0	0	0	3.07
W	4.96	0	0	0	0	4.96
WNW	6.57	0	0	0	0	6.57
NW	5.55	0	0	0	0	5.55
NNW	7.74	0	0	0	0	7.74
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] 01-04-2022 00:00 - 30-04-2022 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

AQHI - Grimshaw Station - April 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

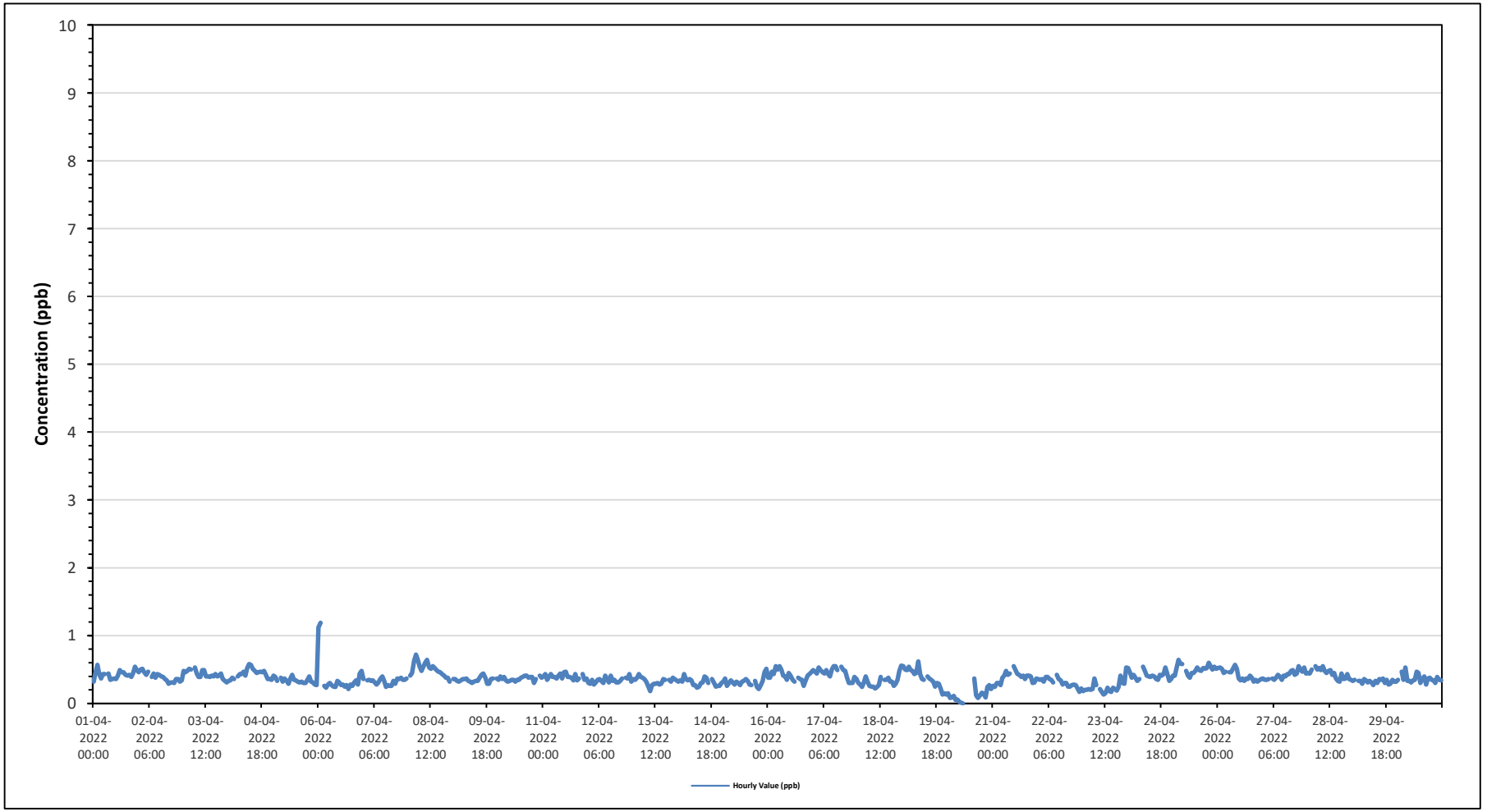
Maximum Hourly Value:	1.19	ppb	on April 6 at hour 1	Hours in Service:	720
Maximum Daily Value:	0.50	ppb	on April 8	Hours of Data:	685
Minimum Hourly Value:	0.00	ppb	on April 20 at hour 8	Hours of Missing Data:	0
Minimum Daily Value:	0.12	ppb	on April 20	Hours of Calibration:	35
Monthly Average:	0.37	ppb		Operational Uptime:	100.0

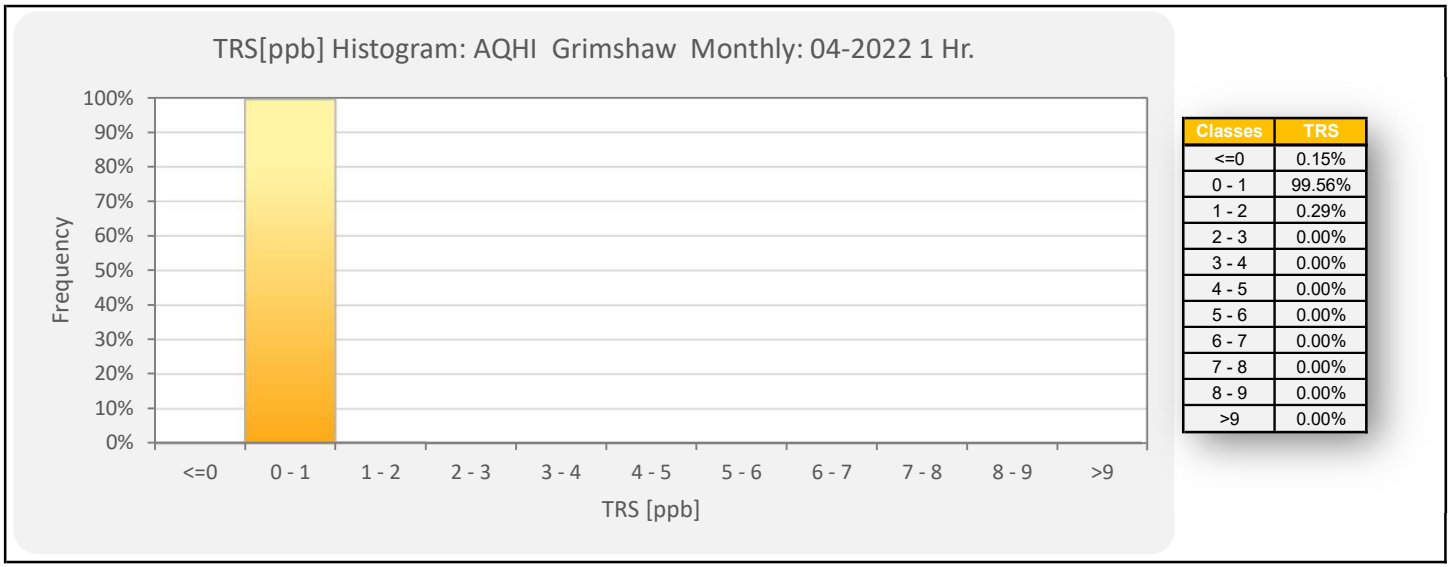
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0.32	0.44	0.57	0.43	0.37	0.43	0.43	S	0.44	0.35	0.36	0.37	0.36	0.41	0.49	0.46	0.46	0.42	0.41	0.42	0.39	0.45	0.54	0.49	0.32	0.57	0.43
Apr 2	0.46	0.5	0.51	0.46	0.42	0.47	S	0.39	0.44	0.38	0.43	0.42	0.4	0.39	0.36	0.34	0.29	0.31	0.31	0.3	0.36	0.36	0.32	0.34	0.29	0.51	0.39
Apr 3	0.48	0.46	0.48	0.51	0.5	S	0.53	0.44	0.39	0.39	0.49	0.49	0.4	0.4	0.39	0.41	0.4	0.43	0.4	0.41	0.44	0.36	0.33	0.31	0.31	0.53	0.43
Apr 4	0.33	0.34	0.38	0.36	S	0.4	0.43	0.43	0.47	0.41	0.52	0.58	0.57	0.51	0.48	0.45	0.46	0.47	0.46	0.48	0.42	0.36	0.36	0.35	0.33	0.58	0.44
Apr 5	0.41	0.39	0.33	S	0.38	0.32	0.37	0.33	0.29	0.37	0.42	0.35	0.34	0.32	0.31	0.32	0.3	0.3	0.35	0.4	0.32	0.31	0.28	0.27	0.27	0.42	0.34
Apr 6	1.12	1.19	S	0.26	0.23	0.28	0.3	0.27	0.25	0.24	0.33	0.31	0.27	0.28	0.25	0.27	0.21	0.28	0.26	0.31	0.34	0.28	0.44	0.48	0.21	1.19	0.37
Apr 7	0.36	S	0.34	0.35	0.33	0.34	0.31	0.28	0.31	0.36	0.4	0.33	0.24	0.27	0.26	0.26	0.33	0.29	0.37	0.36	0.38	0.35	0.35	0.37	0.24	0.40	0.33
Apr 8	S	0.41	0.45	0.63	0.72	0.64	0.54	0.48	0.54	0.6	0.64	0.53	0.51	0.55	0.52	0.49	0.47	0.46	0.43	0.41	0.38	0.38	0.32	S	0.32	0.72	0.50
Apr 9	0.36	0.36	0.33	0.32	0.34	0.36	0.36	0.37	0.33	0.32	0.3	0.32	0.33	0.33	0.38	0.42	0.44	0.38	0.29	0.29	0.36	0.37	S	0.37	0.29	0.44	0.35
Apr 10	0.35	0.4	0.36	0.39	0.34	0.32	0.33	0.35	0.35	0.32	0.35	0.35	0.38	0.39	0.41	0.41	0.38	0.39	0.39	0.3	0.36	S	0.41	0.38	0.30	0.41	0.37
Apr 11	0.4	0.43	0.35	0.39	0.43	0.39	0.39	0.37	0.41	0.44	0.37	0.46	0.47	0.39	0.39	0.38	0.34	0.43	0.34	0.37	S	0.43	0.35	0.37	0.34	0.47	0.40
Apr 12	0.3	0.29	0.35	0.28	0.31	0.35	0.36	0.33	0.3	0.41	0.36	0.31	0.41	0.33	0.35	0.31	0.31	0.33	0.37	S	0.38	0.37	0.43	0.32	0.28	0.43	0.34
Apr 13	0.36	0.35	0.38	0.43	0.39	0.38	0.36	0.32	0.26	0.18	0.27	0.29	0.29	0.3	0.28	0.29	0.36	0.35	S	0.35	0.32	0.38	0.36	0.34	0.18	0.43	0.33
Apr 14	0.32	0.34	0.32	0.43	0.36	0.34	0.36	0.34	0.27	0.27	0.23	0.25	0.3	0.31	0.4	0.38	0.3	S	0.36	0.3	0.25	0.26	0.26	0.3	0.23	0.43	0.32
Apr 15	0.32	0.37	0.26	0.3	0.34	0.31	0.28	0.32	0.3	0.27	0.32	0.33	0.36	0.33	0.28	0.27	S	0.33	0.24	0.21	0.27	0.33	0.46	0.51	0.21	0.51	0.32
Apr 16	0.38	0.38	0.47	0.43	0.55	0.5	0.55	0.5	0.41	0.4	0.35	0.45	0.41	0.35	0.32	S	0.38	0.36	0.35	0.26	0.33	0.41	0.43	0.46	0.26	0.55	0.41
Apr 17	0.49	0.47	0.44	0.53	0.49	0.46	0.44	0.49	0.43	0.4	0.5	0.55	0.55	0.49	S	0.54	0.49	0.48	0.38	0.3	0.3	0.3	0.39	0.36	0.30	0.55	0.45
Apr 18	0.3	0.28	0.24	0.31	0.4	0.32	0.26	0.25	0.25	0.22	0.24	0.27	0.39	S	0.35	0.35	0.38	0.32	0.32	0.26	0.29	0.35	0.48	0.56	0.22	0.56	0.32
Apr 19	0.55	0.5	0.49	0.54	0.49	0.48	0.43	0.45	0.62	0.43	0.36	0.35	S	0.4	0.37	0.35	0.32	0.25	0.3	0.29	0.22	0.13	0.15	0.13	0.13	0.62	0.37
Apr 20	0.15	0.08	0.09	0.11	0.05	0.06	0.02	0.01	0	C	C	C	C	C	0.37	0.12	0.08	0.12	0.16	0.14	0.09	0.24	0.27	0.21	0.00	0.37	0.12
Apr 21	0.26	0.24	0.3	0.3	0.27	0.38	0.41	0.48	0.42	0.44	S	0.55	0.49	0.43	0.42	0.39	0.41	0.36	0.41	0.41	0.4	0.3	0.31	0.37	0.24	0.55	0.38
Apr 22	0.36	0.35	0.36	0.32	0.39	0.39	0.36	0.35	0.31	S	0.42	0.36	0.34	0.28	0.3	0.3	0.25	0.25	0.27	0.28	0.27	0.22	0.17	0.22	0.17	0.42	0.31
Apr 23	0.18	0.2	0.2	0.21	0.2	0.21	0.37	0.27	S	0.21	0.17	0.13	0.15	0.23	0.18	0.17	0.23	0.21	0.19	0.24	0.41	0.3	0.29	0.53	0.13	0.53	0.24
Apr 24	0.52	0.46	0.38	0.42	0.38	0.33	0.36	S	0.54	0.48	0.41	0.4	0.39	0.41	0.4	0.36	0.35	0.42	0.41	0.43	0.53	0.44	0.33	0.36	0.33	0.54	0.41
Apr 25	0.41	0.41	0.53	0.64	0.59	0.58	S	0.48	0.41	0.38	0.45	0.45	0.48	0.53	0.49	0.48	0.52	0.51	0.52	0.6	0.55	0.5	0.54	0.51	0.38	0.64	0.50
Apr 26	0.52	0.53	0.51	0.45	0.47	S	0.46	0.46	0.51	0.57	0.51	0.37	0.34	0.37	0.33	0.37	0.36	0.41	0.38	0.32	0.35	0.32	0.34	0.36	0.32	0.57	0.42
Apr 27	0.37	0.35	0.35	0.36	S	0.37	0.35	0.38	0.42	0.4	0.35	0.41	0.4	0.43	0.43	0.48	0.49	0.42	0.44	0.55	0.5	0.47	0.53	0.44	0.35	0.55	0.42
Apr 28	0.45	0.44	0.5	S	0.55	0.5	0.52	0.49	0.55	0.48	0.45	0.48	0.49	0.42	0.45	0.37	0.33	0.32	0.44	0.36	0.37	0.43	0.36	0.35	0.32	0.55	0.44
Apr 29	0.33	0.35	S	0.33	0.33	0.29	0.36	0.34	0.31	0.33	0.31	0.27	0.33	0.3	0.36	0.35	0.37	0.3	0.35	0.28	0.29	0.35	0.32	0.32	0.27	0.37	0.32
Apr 30	0.35	S	0.47	0.35	0.53	0.33	0.33	0.31	0.34	0.35	0.47	0.45	0.3	0.36	0.4	0.28	0.37	0.38	0.35	0.34	0.3	0.39	0.35	0.34	0.28	0.53	0.37
Diurnal Maximum	1.12	1.19	0.57	0.64	0.72	0.64	0.55	0.50	0.62	0.60	0.64	0.58	0.57	0.55	0.52	0.54	0.52	0.51	0.52	0.60	0.55	0.50	0.54	0.56			
Diurnal Average	0.40	0.40	0.38	0.39	0.40	0.38	0.38	0.37	0.37	0.37	0.39	0.39	0.38	0.38	0.37	0.36	0.36	0.35	0.35	0.34	0.35	0.35	0.36	0.37			

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

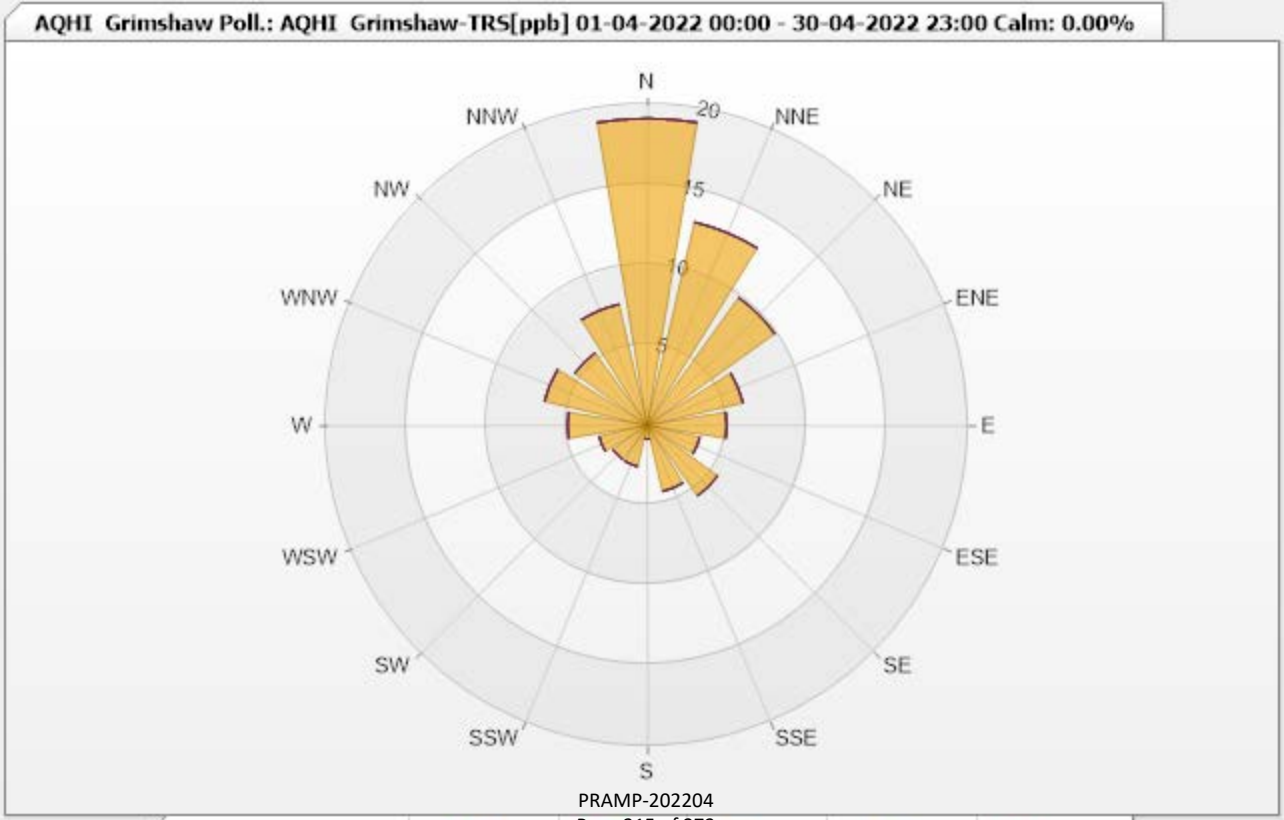




Classes	TRS
<=0	0.15%
0 - 1	99.56%
1 - 2	0.29%
2 - 3	0.00%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.14% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	19.12	0	0	0	0	19.12
NNE	12.99	0	0	0	0	12.99
NE	9.78	0	0	0	0	9.78
ENE	6.13	0	0	0	0	6.13
E	4.96	0	0	0	0	4.96
ESE	3.36	0	0	0	0	3.36
SE	5.4	0	0	0	0	5.4
SSE	4.23	0	0	0	0	4.23
S	0.88	0	0	0	0	0.88
SSW	2.63	0	0	0	0	2.63
SW	2.63	0	0	0	0	2.63
WSW	3.07	0	0	0	0	3.07
W	4.96	0	0	0	0	4.96
WNW	6.57	0	0	0	0	6.57
NW	5.55	0	0	0	0	5.55
NNW	7.74	0	0	0	0	7.74
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] 01-04-2022 00:00 - 30-04-2022 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

AQHI - Grimshaw Station - April 2022

Summary of Hourly Averages

OXIDES OF NITROGEN (NOx) in ppb

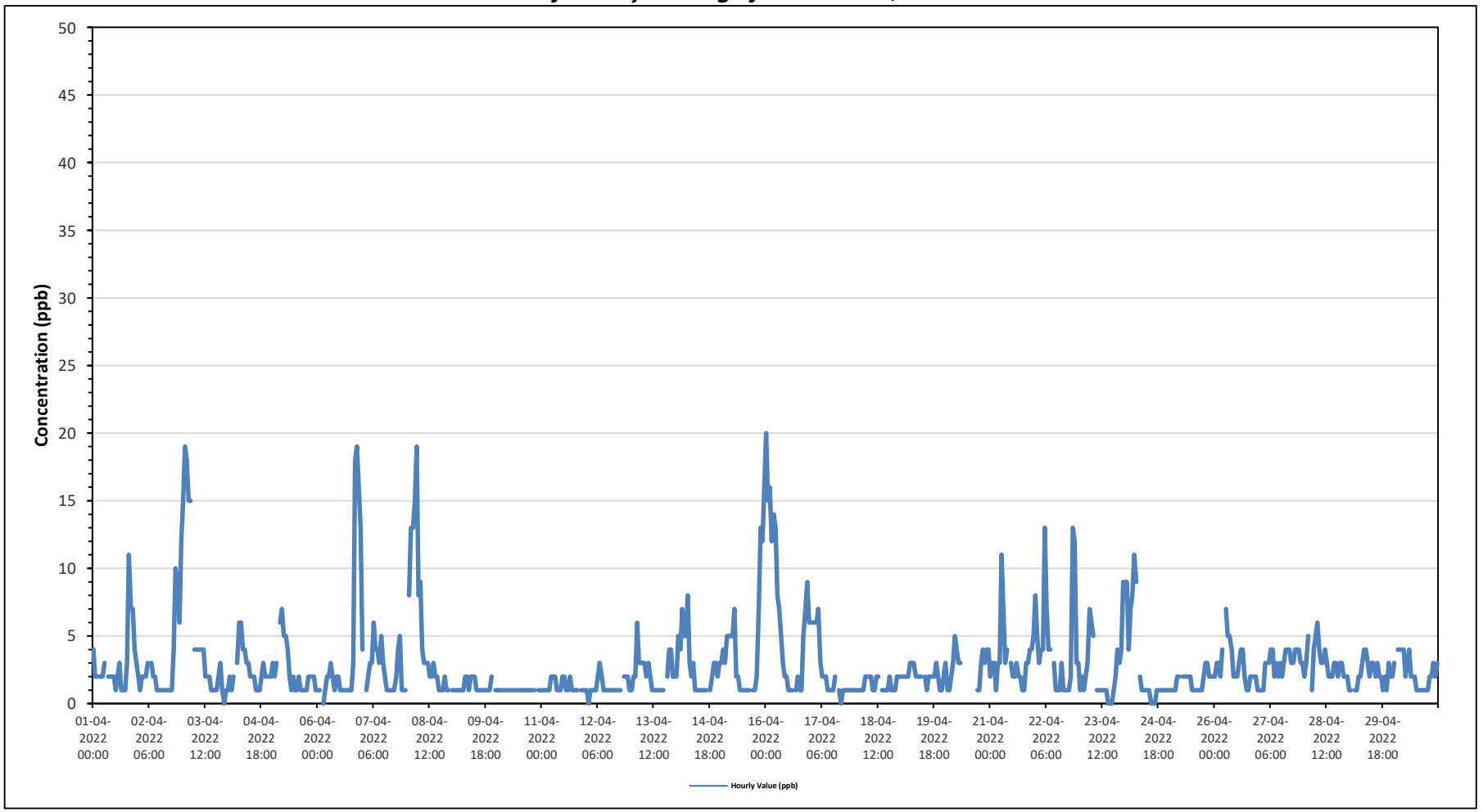
Maximum Hourly Value:	20	ppb	on April 16 at hour 0	Hours in Service:	720
Maximum Daily Value:	6.6	ppb	on April 16	Hours of Data:	682
Minimum Hourly Value:	0	ppb	on April 3 at hour 22	Hours of Missing Data:	0
Minimum Daily Value:	1.0	ppb	on April 10	Hours of Calibration:	38
Monthly Average:	2.8	ppb		Operational Uptime:	100.0

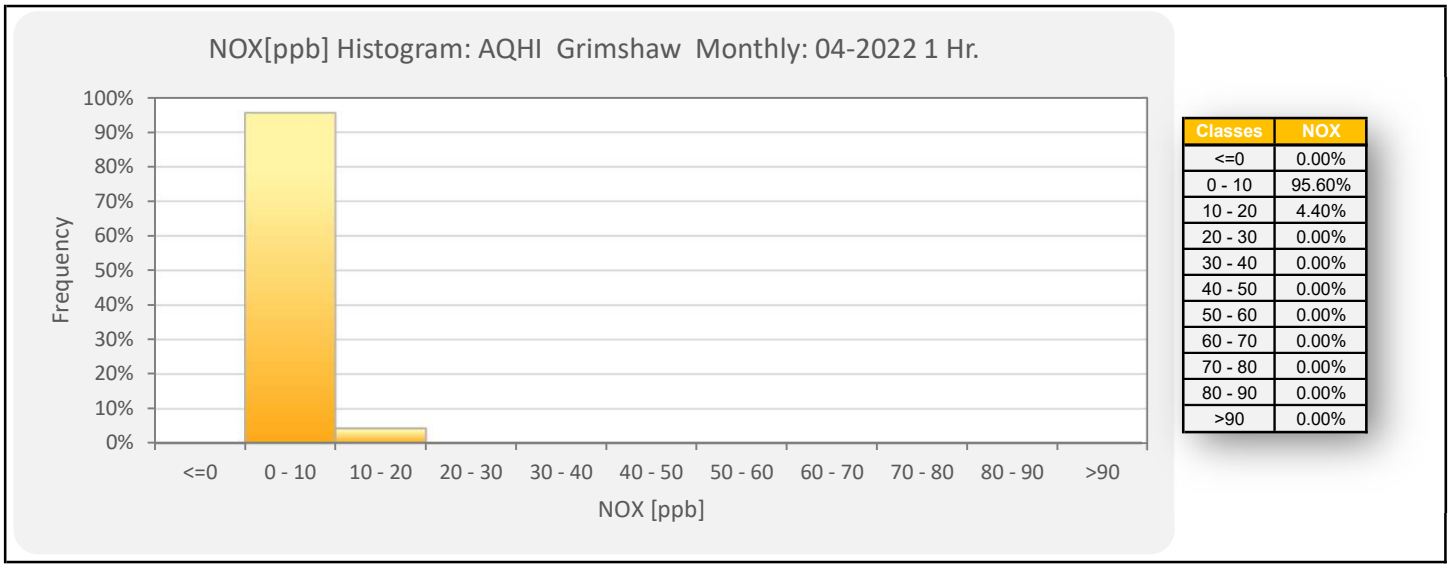
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	4	2	2	2	2	2	3	S	2	2	2	2	1	2	3	1	1	1	3	11	7	7	4	3	1	11	3.0
Apr 2	2	1	2	2	2	3	S	3	2	2	1	1	1	1	1	1	1	1	1	4	10	9	6	12	1	12	3.0
Apr 3	15	19	18	15	15	S	4	4	4	4	4	4	2	2	2	1	1	1	1	2	3	1	0	1	0	19	5.3
Apr 4	1	2	1	2	S	3	6	6	4	4	3	3	2	2	2	1	1	1	2	3	2	2	2	2	1	6	2.5
Apr 5	3	2	3	S	6	7	5	5	4	2	1	2	1	1	2	1	1	1	1	2	2	2	2	1	1	7	2.5
Apr 6	1	1	S	0	1	2	2	3	2	1	2	2	1	1	1	1	1	1	1	3	18	19	16	13	0	19	4.0
Apr 7	4	S	1	2	3	3	6	4	4	3	5	3	2	1	1	1	1	1	2	4	5	1	1	1	1	6	2.6
Apr 8	S	8	13	13	15	19	8	9	4	3	3	3	2	2	3	2	2	1	1	1	2	1	1	S	1	19	5.3
Apr 9	1	1	1	1	1	1	1	2	2	1	2	2	2	1	1	1	1	1	1	1	1	2	S	1	1	2	1.3
Apr 10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	S	1	1	1	1	1.0
Apr 11	1	1	1	1	1	2	2	2	1	1	1	2	2	1	1	2	1	1	1	1	S	1	1	1	1	2	1.3
Apr 12	1	0	1	1	1	1	2	3	2	1	1	1	1	1	1	1	1	1	1	S	2	2	2	1	0	3	1.3
Apr 13	1	2	2	6	3	3	3	3	2	3	2	1	1	1	1	1	1	1	S	2	4	4	2	2	1	6	2.2
Apr 14	2	5	4	7	5	5	8	3	2	3	1	1	1	1	1	1	1	S	1	2	3	3	2	3	1	8	2.8
Apr 15	3	4	3	5	5	5	5	7	2	2	1	1	1	1	1	1	S	1	1	2	7	13	12	16	1	16	4.3
Apr 16	20	15	16	12	14	13	8	7	5	3	2	2	1	1	1	S	1	2	1	1	5	7	9	6	1	20	6.6
Apr 17	6	6	6	6	7	3	2	2	2	1	1	1	1	2	S	1	0	1	1	1	1	1	1	1	0	7	2.3
Apr 18	1	1	1	1	1	2	2	2	2	1	1	2	2	S	1	1	1	1	2	1	1	1	2	2	1	2	1.4
Apr 19	2	2	2	2	2	3	3	3	2	2	2	2	S	2	1	2	2	2	2	3	2	1	1	2	1	3	2.0
Apr 20	3	1	1	2	3	5	4	3	3	C	C	C	C	C	C	C	C	1	1	3	4	3	4	4	1	5	-
Apr 21	2	3	3	1	3	3	11	7	3	4	S	3	2	2	3	2	2	1	1	3	3	4	4	5	1	11	3.3
Apr 22	8	5	3	4	4	13	7	4	4	S	3	1	1	1	3	1	1	1	1	2	13	12	3	3	1	13	4.3
Apr 23	1	2	1	2	3	7	6	5	S	1	1	1	1	1	1	0	0	0	1	2	4	3	4	9	0	9	2.4
Apr 24	9	9	4	7	8	11	9	S	2	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	11	3.1
Apr 25	1	1	1	1	2	2	S	2	2	2	2	2	1	1	1	1	1	1	2	3	3	2	2	2	1	3	1.7
Apr 26	2	3	3	2	4	S	7	5	5	4	2	2	2	3	4	4	2	1	1	2	2	2	2	1	1	7	2.8
Apr 27	1	1	1	3	S	3	4	4	2	3	2	3	2	3	4	4	4	3	3	4	4	4	3	3	1	4	3.0
Apr 28	2	3	5	S	1	4	5	6	4	3	3	4	3	2	2	2	3	3	2	3	3	2	2	2	1	6	3.0
Apr 29	1	1	S	1	1	2	2	3	4	4	3	2	3	3	2	3	2	2	1	2	1	3	2	2	1	4	2.2
Apr 30	3	S	4	4	4	4	2	3	4	2	2	2	1	1	1	1	1	1	1	2	2	3	2	3	1	4	2.3
Diurnal Maximum	20	19	18	15	15	19	11	9	5	4	5	4	3	3	4	4	4	3	3	11	18	19	16	16			
Diurnal Average	3.5	3.6	3.7	3.8	4.2	4.7	4.6	4.0	2.8	2.3	2.0	2.0	1.5	1.5	1.6	1.4	1.3	1.2	1.3	2.5	4.0	4.0	3.2	3.6			

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

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

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

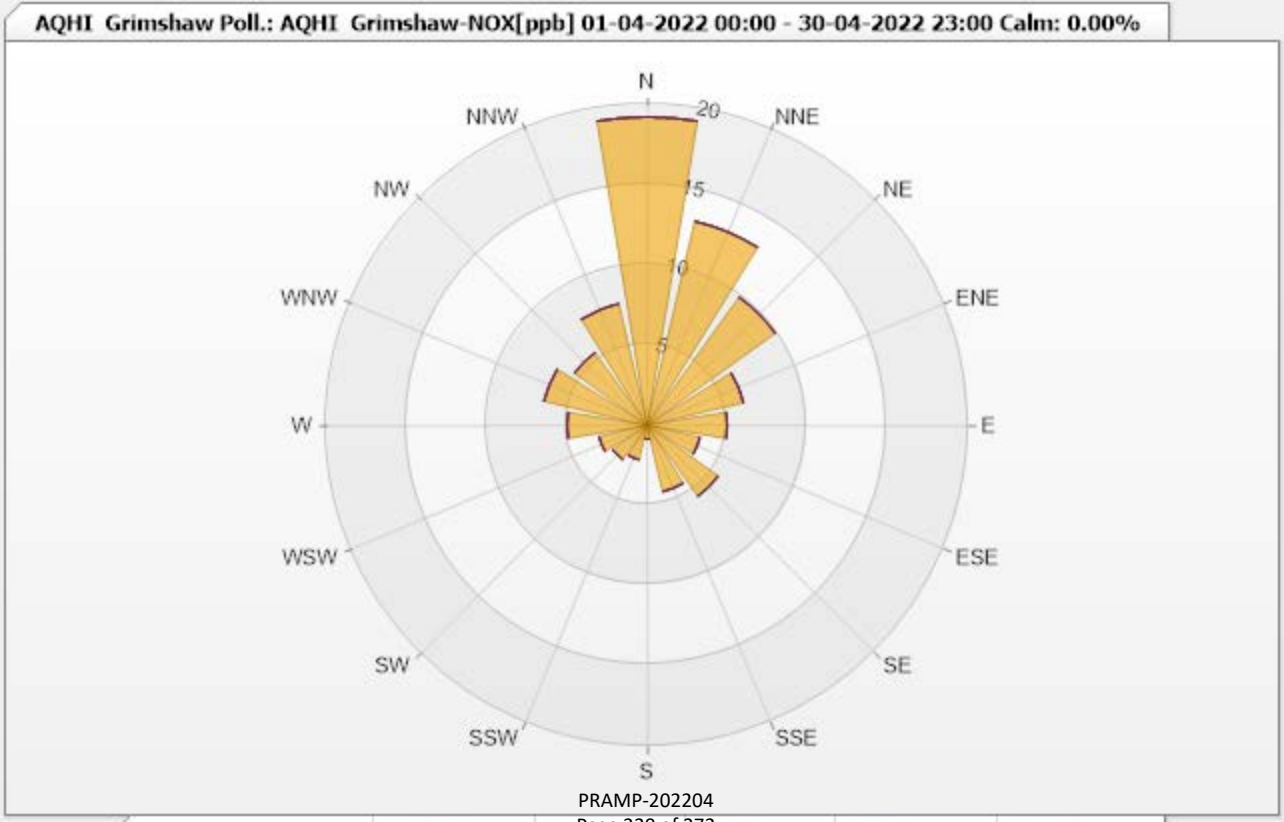




Classes	NOX
<=0	0.00%
0 - 10	95.60%
10 - 20	4.40%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.72% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	19.21	0	0	0	0	19.21
NNE	13.05	0	0	0	0	13.05
NE	9.82	0	0	0	0	9.82
ENE	6.16	0	0	0	0	6.16
E	4.99	0	0	0	0	4.99
ESE	3.37	0	0	0	0	3.37
SE	5.43	0	0	0	0	5.43
SSE	4.25	0	0	0	0	4.25
S	0.88	0	0	0	0	0.88
SSW	2.2	0	0	0	0	2.2
SW	2.64	0	0	0	0	2.64
WSW	3.08	0	0	0	0	3.08
W	4.99	0	0	0	0	4.99
WNW	6.6	0	0	0	0	6.6
NW	5.57	0	0	0	0	5.57
NNW	7.77	0	0	0	0	7.77
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] 01-04-2022 00:00 - 30-04-2022 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 - April 2022

Summary of Hourly Averages

NITRIC OXIDE (NO) in ppb

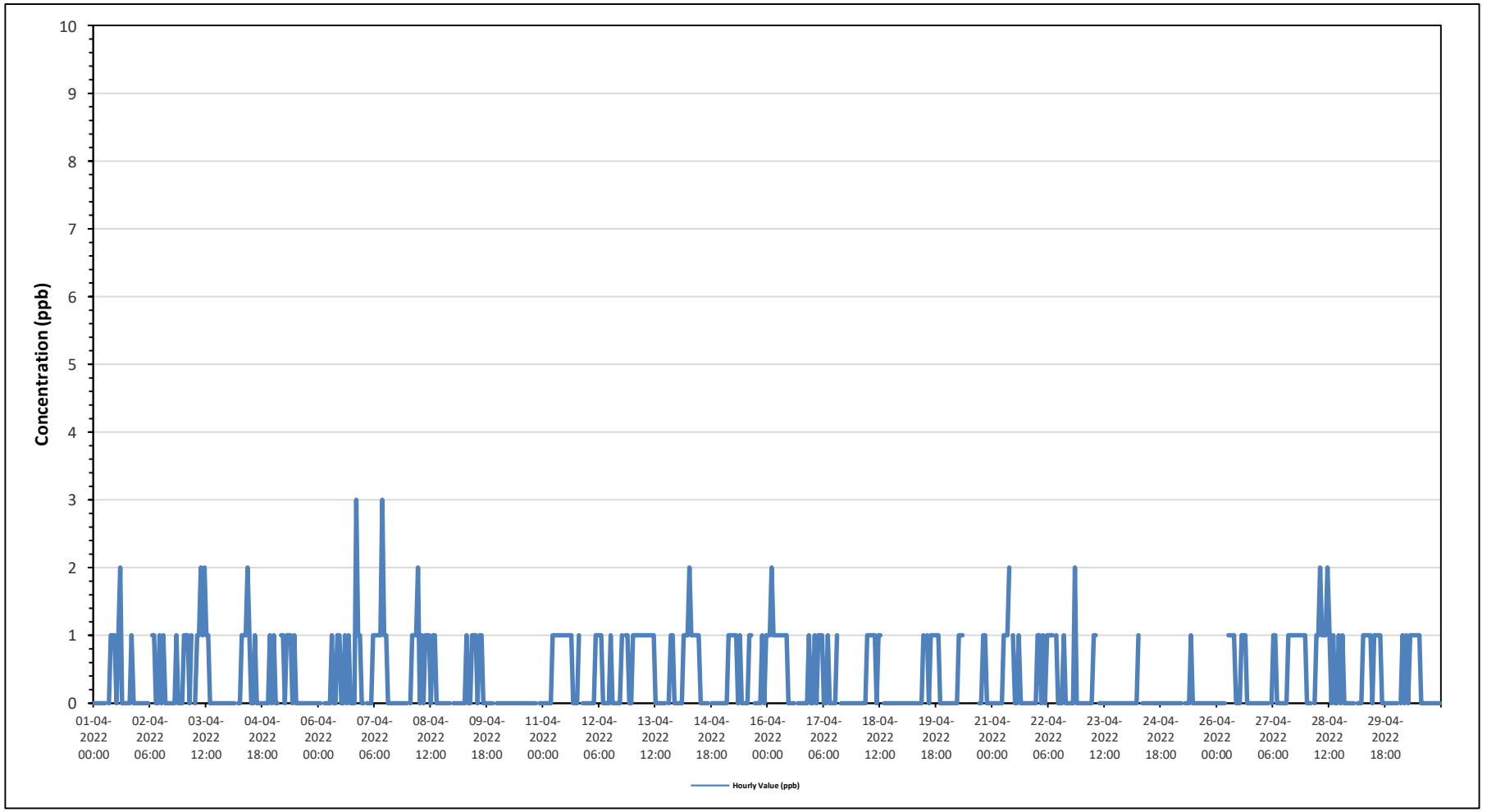
Maximum Hourly Value:	3	ppb	on April 6 at hour 20	Hours in Service:	720
Maximum Daily Value:	0.6	ppb	on April 13	Hours of Data:	682
Minimum Hourly Value:	0	ppb	on April 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on April 10	Hours of Calibration:	38
Monthly Average:	0.4	ppb		Operational Uptime:	100.0

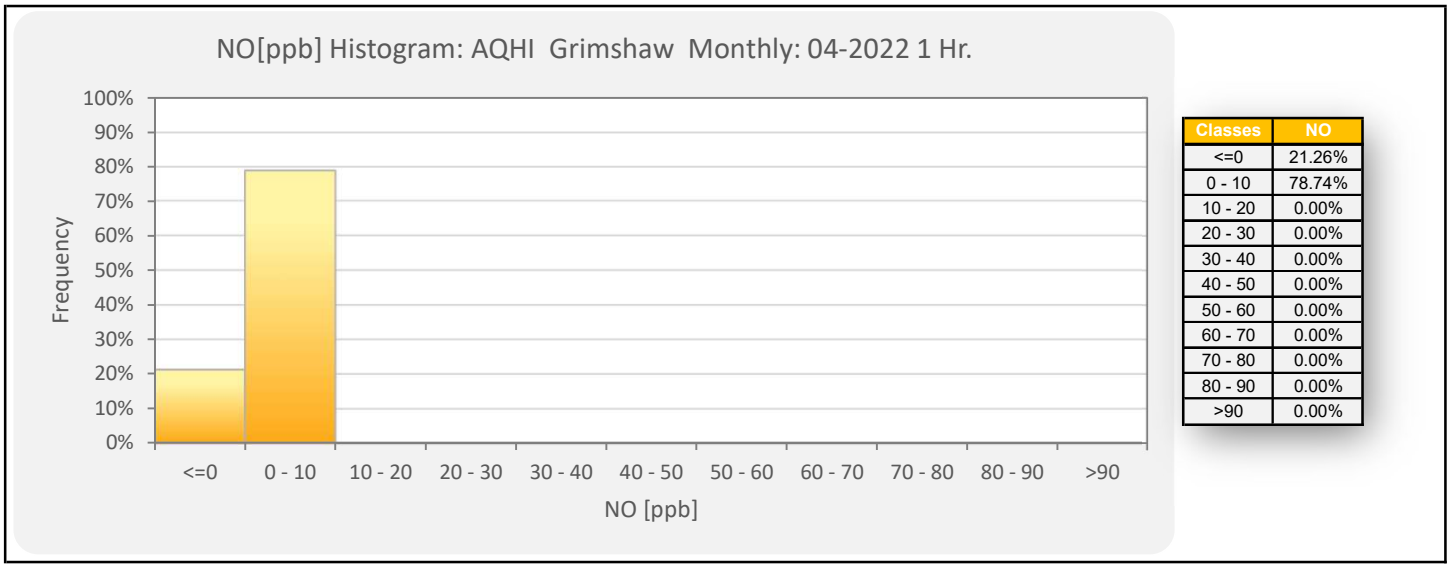
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0	0	0	0	0	0	0	S	0	1	1	1	0	1	2	0	0	0	0	0	1	0	0	0	0	2	0.3
Apr 2	0	0	0	0	0	0	S	1	1	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0.2
Apr 3	1	1	1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

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

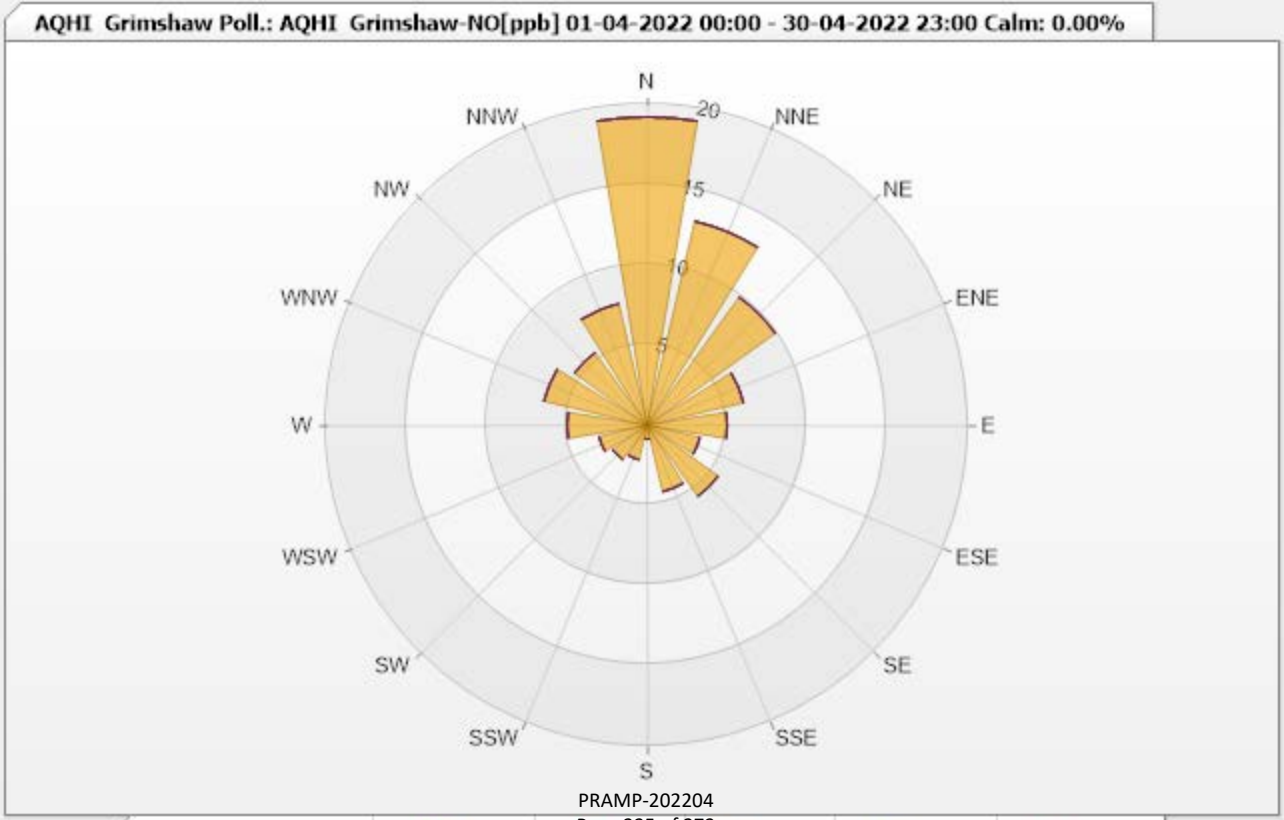




Classes	NO
<=0	21.26%
0 - 10	78.74%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.72% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	19.21	0	0	0	0	19.21
NNE	13.05	0	0	0	0	13.05
NE	9.82	0	0	0	0	9.82
ENE	6.16	0	0	0	0	6.16
E	4.99	0	0	0	0	4.99
ESE	3.37	0	0	0	0	3.37
SE	5.43	0	0	0	0	5.43
SSE	4.25	0	0	0	0	4.25
S	0.88	0	0	0	0	0.88
SSW	2.2	0	0	0	0	2.2
SW	2.64	0	0	0	0	2.64
WSW	3.08	0	0	0	0	3.08
W	4.99	0	0	0	0	4.99
WNW	6.6	0	0	0	0	6.6
NW	5.57	0	0	0	0	5.57
NNW	7.77	0	0	0	0	7.77
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] 01-04-2022 00:00 - 30-04-2022 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 - April 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

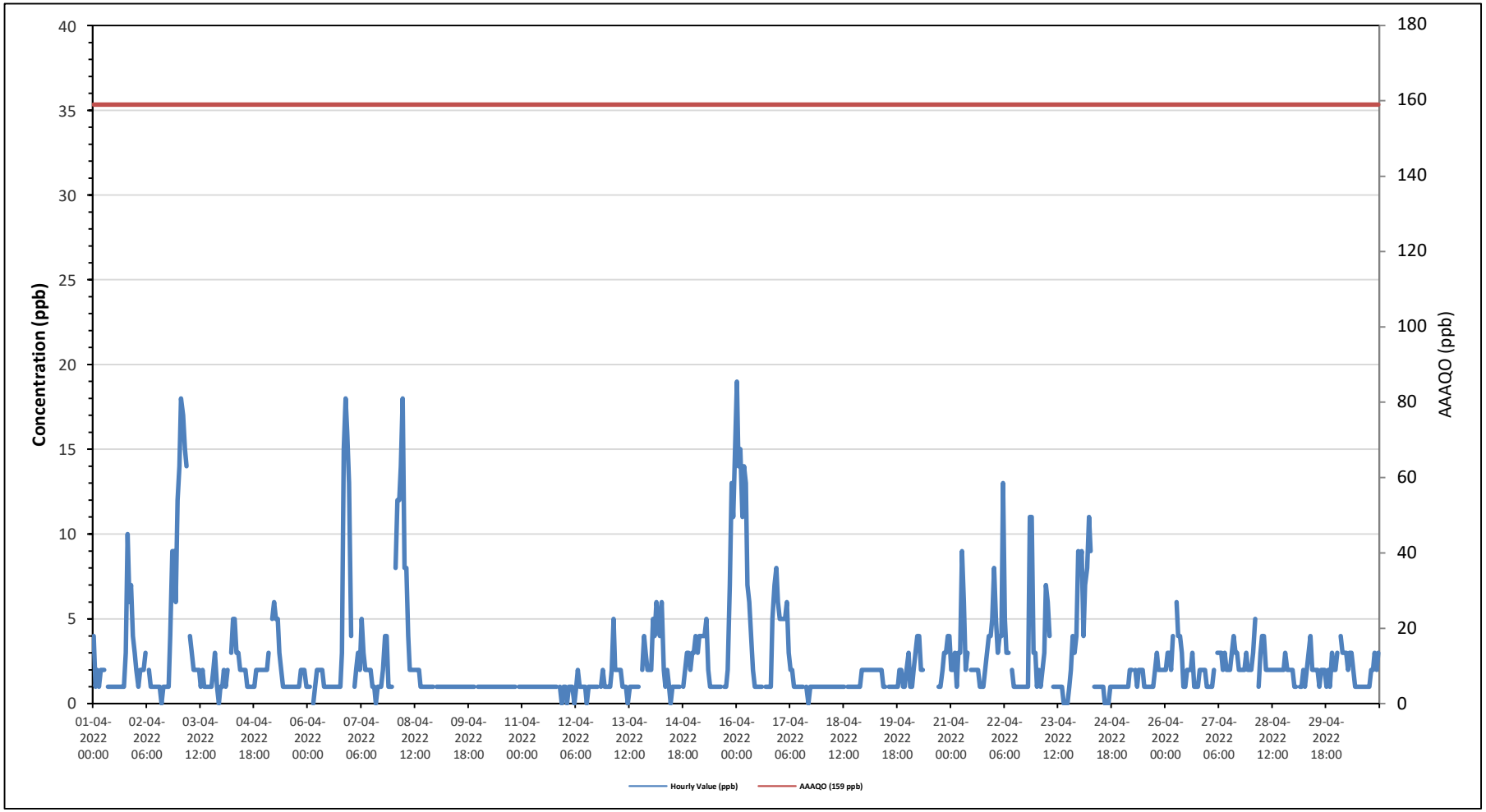
Maximum Hourly Value:	19	ppb	on April 16 at hour 0	Hours in Service:	720
Maximum Daily Value:	6.1	ppb	on April 16	Hours of Data:	682
Minimum Hourly Value:	0	ppb	on April 2 at hour 14	Hours of Missing Data:	0
Minimum Daily Value:	1.0	ppb	on April 11	Hours of Calibration:	38
Monthly Average:	2.5	ppb		Operational Uptime:	100.0

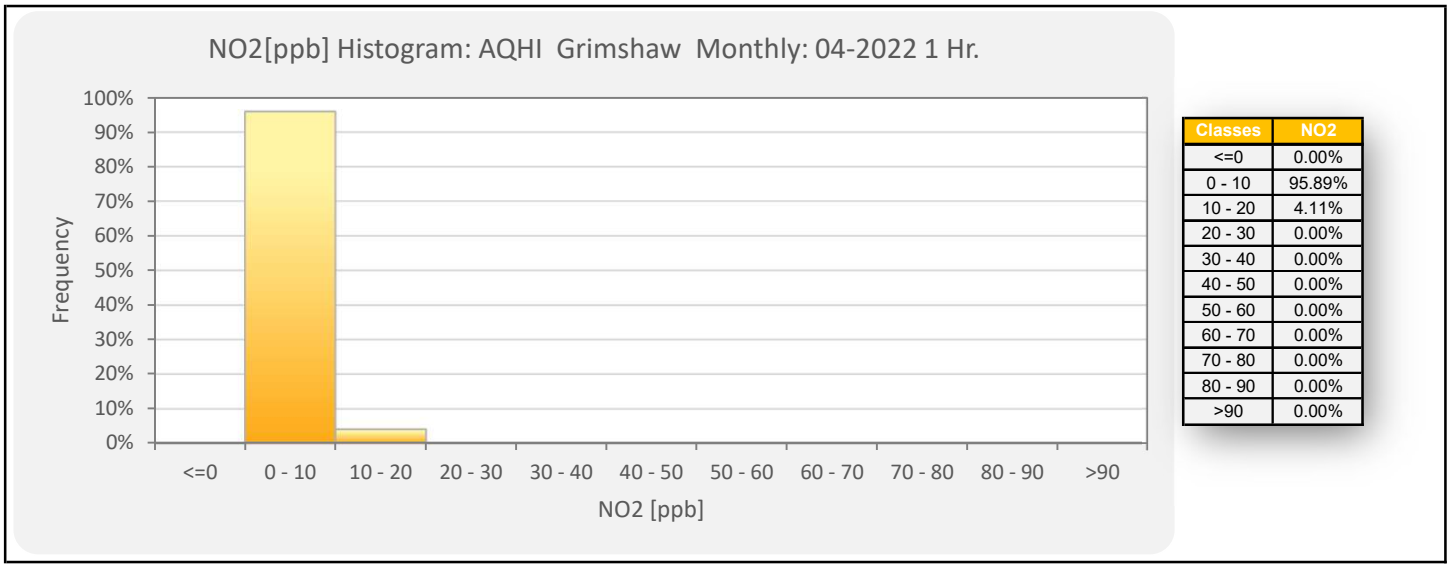
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	4	1	2	1	2	2	2	S	1	1	1	1	1	1	1	1	1	1	3	10	6	7	4	3	1	10	2.5
Apr 2	2	1	2	2	2	3	S	2	1	1	1	1	1	1	0	1	1	1	1	4	9	9	6	12	0	12	2.8
Apr 3	14	18	17	15	14	S	4	3	2	2	2	2	1	2	1	1	1	1	1	2	3	1	0	1	0	18	4.7
Apr 4	1	2	1	2	S	3	5	5	3	3	2	2	2	2	1	1	1	1	1	2	2	2	2	2	1	5	2.1
Apr 5	2	2	3	S	5	6	5	5	3	2	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	6	2.2
Apr 6	1	1	S	0	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	3	15	18	16	13	0	18	3.7
Apr 7	4	S	1	2	3	2	5	3	2	2	2	2	1	1	0	1	1	1	2	4	4	1	1	1	0	5	2.0
Apr 8	S	8	12	12	14	18	8	8	4	2	2	2	2	2	2	1	1	1	1	1	1	1	1	S	1	18	4.7
Apr 9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	S	1	1	1	1.0
Apr 10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	S	1	1	1	1	1.0
Apr 11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	S	1	0	1	0	1	1.0
Apr 12	1	0	1	1	1	0	1	2	1	1	1	1	0	1	1	1	1	1	1	S	1	2	1	1	0	2	1.0
Apr 13	1	1	2	5	2	2	2	2	1	1	1	0	1	1	1	1	1	1	S	2	4	3	2	2	0	5	1.7
Apr 14	2	5	4	6	5	4	6	2	1	2	1	0	1	1	1	1	1	S	1	2	3	3	2	3	0	6	2.5
Apr 15	3	4	3	4	4	4	4	5	2	1	1	1	1	1	1	1	S	1	1	2	7	13	11	15	1	15	3.9
Apr 16	19	14	15	11	14	13	7	6	4	2	1	1	1	1	1	S	1	1	1	1	5	7	8	6	1	19	6.1
Apr 17	5	5	5	5	6	3	2	2	1	1	1	1	1	1	S	1	0	1	1	1	1	1	1	1	0	6	2.0
Apr 18	1	1	1	1	1	1	1	1	1	1	1	1	1	S	1	1	1	1	1	1	1	1	2	2	1	2	1.1
Apr 19	2	2	2	2	2	2	2	2	2	2	1	1	S	1	1	1	1	1	1	2	2	1	1	2	1	2	1.6
Apr 20	3	1	1	2	3	4	4	2	2	C	C	C	C	C	C	C	C	1	1	2	3	3	4	4	1	4	-
Apr 21	2	2	3	1	3	3	9	6	2	3	S	2	2	2	2	2	1	1	1	2	3	4	4	5	1	9	2.8
Apr 22	8	5	3	4	4	13	5	3	3	S	2	1	1	1	1	1	1	1	1	1	11	11	3	3	1	13	3.8
Apr 23	1	2	1	2	3	7	6	4	S	1	1	1	1	1	1	0	0	0	1	2	4	3	4	9	0	9	2.4
Apr 24	8	9	4	7	8	11	9	S	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	0	11	3.0
Apr 25	1	1	1	1	2	2	S	2	1	2	2	2	1	1	1	1	1	1	2	3	2	2	2	2	1	3	1.6
Apr 26	2	3	3	2	4	S	6	4	4	3	1	1	2	2	2	3	1	1	1	2	2	2	2	1	1	6	2.3
Apr 27	1	1	1	2	S	3	3	3	2	3	2	2	2	3	4	3	3	2	2	2	2	3	2	2	1	4	2.3
Apr 28	2	3	5	S	1	3	4	4	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	2	1	5	2.4
Apr 29	1	1	S	1	1	2	1	2	3	4	2	2	2	2	1	2	2	2	1	2	1	3	2	2	1	4	1.8
Apr 30	3	S	4	3	3	3	2	3	3	2	1	1	1	1	1	1	1	1	1	2	2	3	2	3	1	4	2.0
Diurnal Maximum	19	18	17	15	14	18	9	8	4	4	2	2	2	3	4	3	3	2	3	10	15	18	16	15			
Diurnal Average	3.3	3.4	3.6	3.5	4.0	4.3	3.9	3.1	2.0	1.8	1.3	1.2	1.2	1.3	1.1	1.2	1.0	1.1	1.2	2.2	3.5	3.8	3.1	3.5			

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 NO2 - AQHI - Grimshaw Station

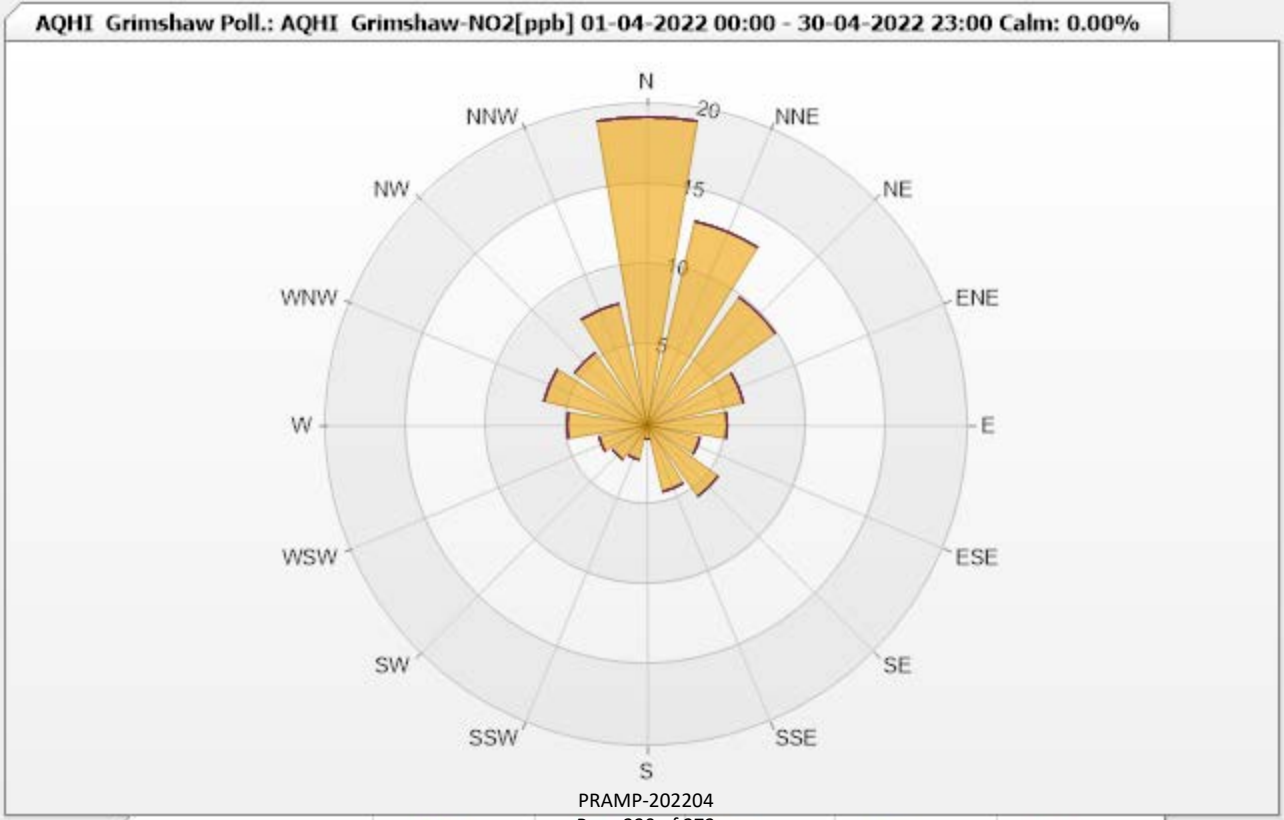




Classes	NO2
<=0	0.00%
0 - 10	95.89%
10 - 20	4.11%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.72% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	19.21	0	0	0	0	19.21
NNE	13.05	0	0	0	0	13.05
NE	9.82	0	0	0	0	9.82
ENE	6.16	0	0	0	0	6.16
E	4.99	0	0	0	0	4.99
ESE	3.37	0	0	0	0	3.37
SE	5.43	0	0	0	0	5.43
SSE	4.25	0	0	0	0	4.25
S	0.88	0	0	0	0	0.88
SSW	2.2	0	0	0	0	2.2
SW	2.64	0	0	0	0	2.64
WSW	3.08	0	0	0	0	3.08
W	4.99	0	0	0	0	4.99
WNW	6.6	0	0	0	0	6.6
NW	5.57	0	0	0	0	5.57
NNW	7.77	0	0	0	0	7.77
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] 01-04-2022 00:00 - 30-04-2022 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 - April 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

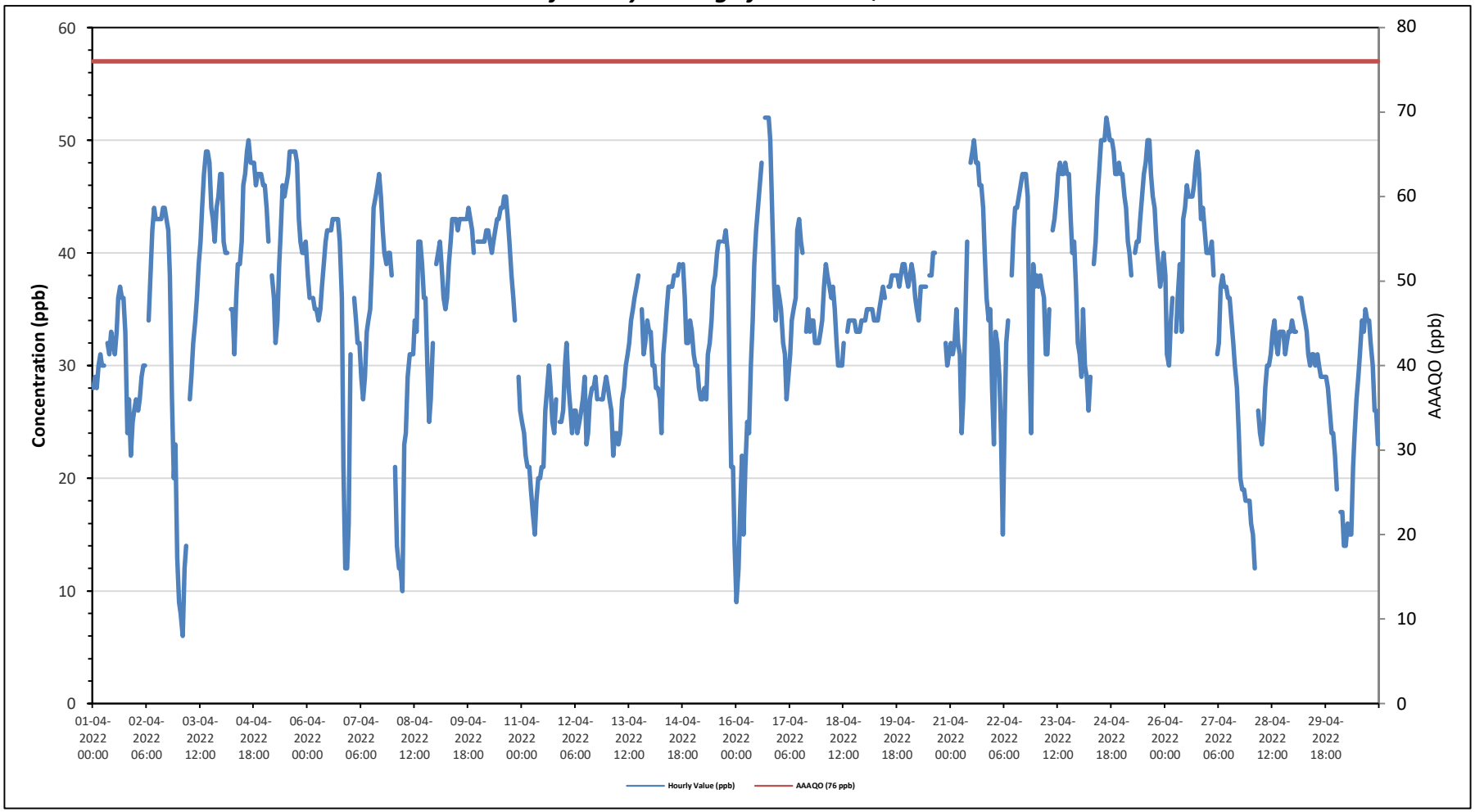
Maximum Hourly Value:	52	ppb	on April 16 at hour 16	Hours in Service:	720
Maximum Daily Value:	43.2	ppb	on April 4	Hours of Data:	684
Minimum Hourly Value:	6	ppb	on April 3 at hour 2	Hours of Missing Data:	0
Minimum Daily Value:	23.0	ppb	on April 11	Hours of Calibration:	36
Monthly Average:	34.7	ppb		Operational Uptime:	100.0

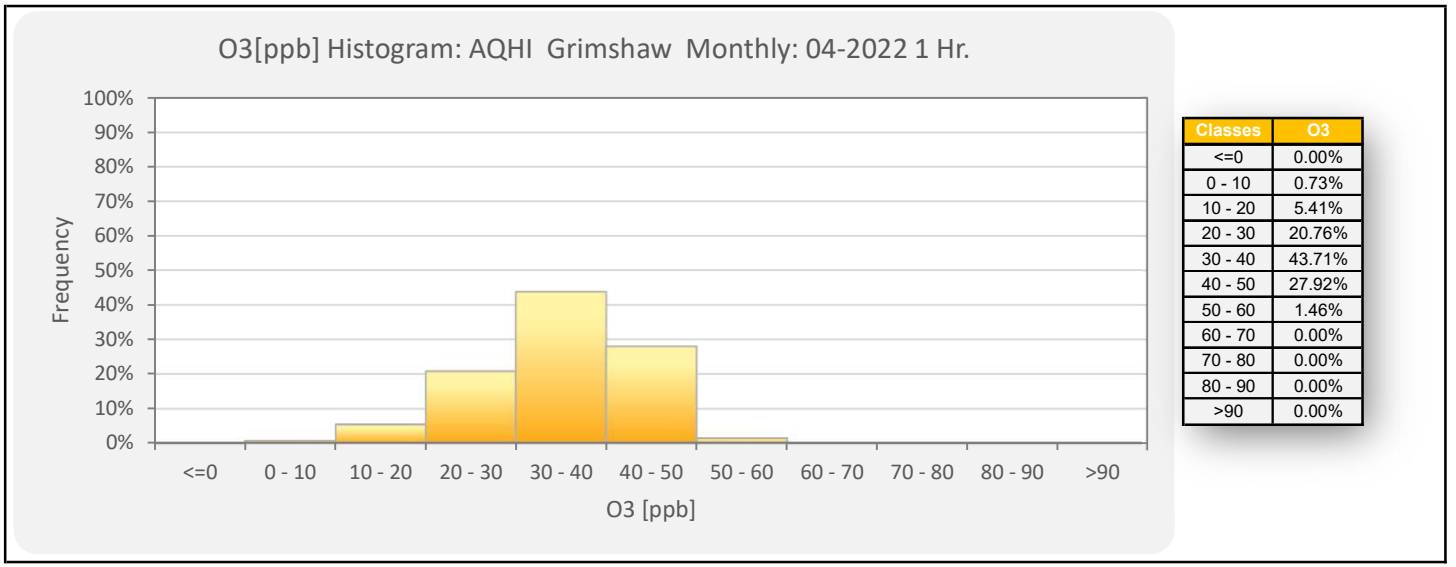
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Apr 1	28	29	28	30	31	30	30	S	32	31	33	32	31	33	36	37	36	36	33	24	27	22	25	26	22	37	30.4
Apr 2	27	26	27	29	30	30	S	34	38	42	44	43	43	43	43	44	44	43	42	38	27	20	23	13	13	44	34.5
Apr 3	9	8	6	12	14	S	27	29	32	34	36	39	41	44	47	49	49	48	44	43	41	44	45	47	6	49	34.3
Apr 4	47	41	40	40	S	35	35	31	36	39	39	41	46	47	49	50	48	48	48	46	47	47	47	46	31	50	**43.2**
Apr 5	46	44	41	S	38	36	32	34	39	42	46	45	46	47	49	49	49	49	48	43	41	40	40	41	32	49	42.8
Apr 6	38	36	S	36	35	35	34	35	37	39	41	42	42	42	43	43	43	43	41	36	21	12	12	16	12	43	34.9
Apr 7	31	S	36	34	32	32	29	27	29	33	34	35	39	44	45	46	47	45	42	40	39	40	40	38	27	47	37.3
Apr 8	S	21	14	12	12	10	23	24	29	31	31	31	34	33	41	41	39	36	36	30	25	27	32	S	10	41	27.8
Apr 9	39	40	41	39	36	35	36	39	41	43	43	43	42	43	43	43	43	43	44	43	42	40	S	41	35	44	41.0
Apr 10	41	41	41	41	42	42	41	40	41	42	43	43	44	44	45	45	43	41	38	36	34	S	29	26	26	45	40.1
Apr 11	25	24	22	21	21	19	17	15	18	20	20	21	21	26	28	30	28	25	24	27	S	25	25	26	15	30	23.0
Apr 12	30	32	28	26	24	26	26	24	25	26	27	29	23	24	27	28	28	29	27	S	27	27	28	29	23	32	27.0
Apr 13	28	27	26	22	24	24	23	24	27	28	30	31	32	34	35	36	37	38	S	35	31	32	34	33	22	38	30.0
Apr 14	33	30	30	28	28	27	24	31	33	35	37	37	37	38	38	38	39	S	39	36	32	32	34	33	24	39	33.4
Apr 15	31	30	30	28	27	27	28	27	31	32	34	37	38	40	41	41	S	41	42	40	30	21	21	14	14	42	31.8
Apr 16	9	12	17	22	15	21	25	24	30	34	39	42	44	46	48	S	**52**	**52**	**52**	50	43	37	34	37	9	**52**	34.1
Apr 17	36	35	32	31	27	29	31	34	35	36	42	43	41	40	S	33	35	33	34	34	32	32	32	33	27	43	34.3
Apr 18	34	37	39	38	37	36	37	35	32	30	30	30	32	S	33	34	34	34	34	33	33	33	34	34	30	39	34.0
Apr 19	34	35	35	35	35	34	34	34	35	36	37	36	S	37	37	38	38	38	38	37	38	39	39	38	34	39	36.4
Apr 20	37	38	39	38	36	35	34	37	37	37	37	S	38	38	40	40	C	C	C	C	C	32	30	31	30	40	36.3
Apr 21	32	31	32	35	32	31	24	27	34	41	S	48	49	50	48	48	46	46	44	40	36	34	35	28	24	50	37.9
Apr 22	23	33	32	29	24	15	24	32	34	S	38	42	44	44	45	46	47	47	47	45	30	24	39	37	15	47	35.7
Apr 23	38	37	38	37	36	31	31	35	S	42	43	45	47	48	47	47	48	47	47	43	40	41	37	32	31	48	40.7
Apr 24	31	29	35	30	29	26	29	S	39	41	45	47	50	50	50	**52**	51	50	50	49	47	47	48	47	26	**52**	42.3
Apr 25	47	45	44	41	40	38	S	40	41	41	43	45	47	48	50	50	47	45	44	41	39	37	38	40	37	50	43.1
Apr 26	38	31	30	34	36	S	33	36	39	33	43	44	46	45	45	45	46	48	49	47	43	44	42	40	30	49	40.7
Apr 27	40	40	41	38	S	31	32	37	38	37	37	36	36	34	32	30	28	24	20	19	19	18	18	18	18	41	30.6
Apr 28	16	15	12	S	26	24	23	25	28	30	30	31	33	34	32	31	33	33	33	31	32	33	33	34	12	34	28.3
Apr 29	33	33	S	36	36	35	34	33	31	30	31	31	30	31	30	29	29	29	29	28	26	24	24	22	22	36	30.2
Apr 30	19	S	17	17	14	14	16	15	15	21	24	27	29	31	34	33	35	34	34	32	30	26	26	23	14	35	24.6
Diurnal Maximum	47	45	44	41	42	42	41	40	41	43	46	48	50	50	50	52	52	52	52	50	47	47	48	47			
Diurnal Average	31.7	31.4	30.5	30.7	29.2	28.9	29.0	30.6	33.0	34.7	36.4	37.8	38.8	39.9	40.7	40.6	40.8	40.2	39.4	37.4	34.0	32.1	32.6	31.8			

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

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

Timeseries Chart of Hourly Average for O3 - AQHI - Grimshaw Station

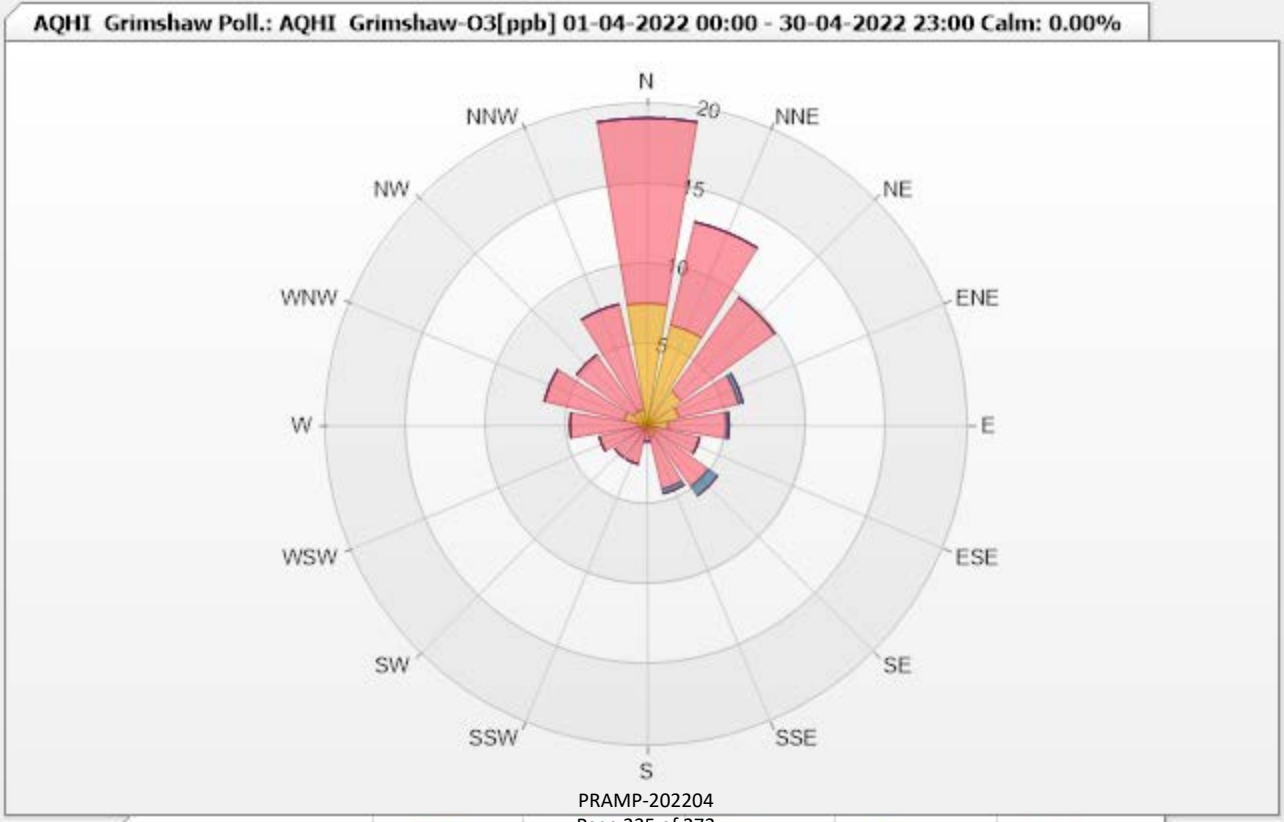




Classes	O3
<=0	0.00%
0 - 10	0.73%
10 - 20	5.41%
20 - 30	20.76%
30 - 40	43.71%
40 - 50	27.92%
50 - 60	1.46%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	7.6	11.55	0	0	0	19.15
NNE	6.43	6.58	0	0	0	13.01
NE	2.63	7.16	0	0	0	9.79
ENE	2.05	3.8	0.29	0	0	6.14
E	1.32	3.65	0.15	0	0	5.12
ESE	0.29	3.07	0	0	0	3.36
SE	0.58	4.09	0.73	0	0	5.4
SSE	0.73	3.36	0.29	0	0	4.38
S	0.15	0.88	0	0	0	1.03
SSW	0.29	2.19	0	0	0	2.48
SW	0.44	2.05	0	0	0	2.49
WSW	0.29	2.78	0	0	0	3.07
W	0.58	4.24	0	0	0	4.82
WNW	1.46	5.12	0	0	0	6.58
NW	1.02	4.39	0	0	0	5.41
NNW	1.02	6.73	0	0	0	7.75
Summary	26.88	71.64	1.46	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] 01-04-2022 00:00 - 30-04-2022 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)
27 0-30
72 30-50
1 50-76
0 76-159
0 >159.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - April 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

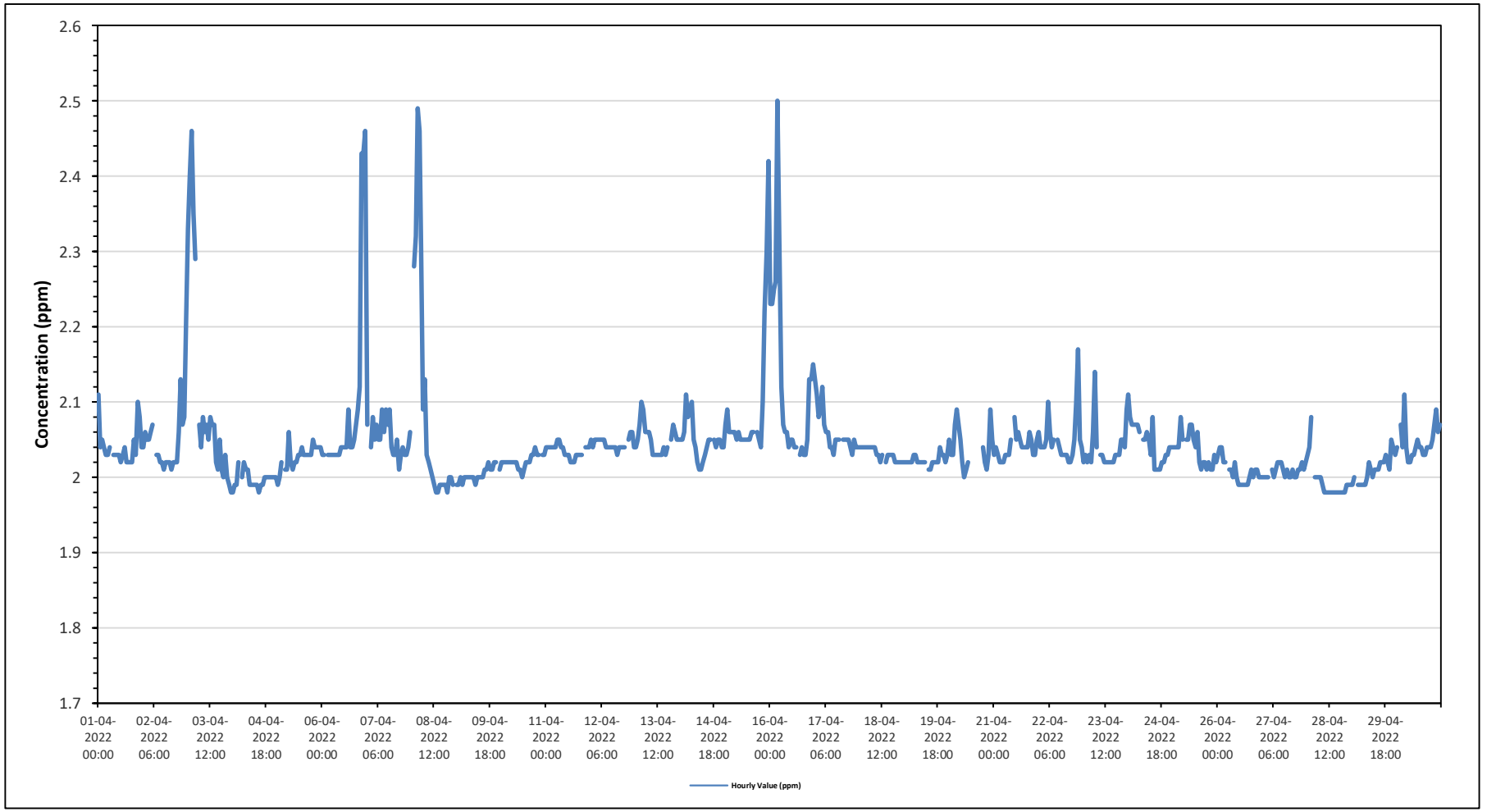
Maximum Hourly Value:	2.50	ppm	on April 16 at hour 4	Hours in Service:	720
Maximum Daily Value:	2.13	ppm	on April 16	Hours of Data:	684
Minimum Hourly Value:	1.98	ppm	on April 3 at hour 23	Hours of Missing Data:	0
Minimum Daily Value:	1.99	ppm	on April 28	Hours of Calibration:	36
Monthly Average:	2.04	ppm		Operational Uptime:	100.0

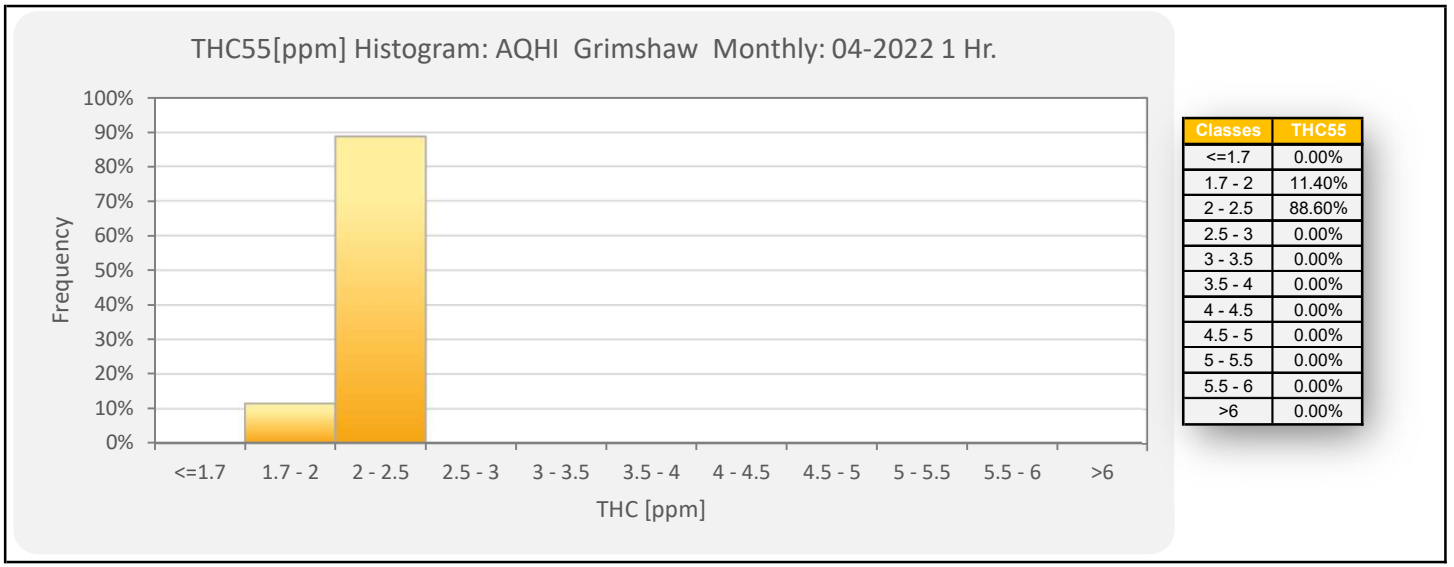
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2.11	2.04	2.05	2.04	2.03	2.03	2.04	S	2.03	2.03	2.03	2.03	2.02	2.03	2.04	2.02	2.02	2.02	2.02	2.05	2.03	2.10	2.08	2.04	2.02	2.11	2.04
Apr 2	2.04	2.06	2.05	2.05	2.06	2.07	S	2.03	2.03	2.02	2.02	2.01	2.02	2.02	2.02	2.01	2.02	2.02	2.02	2.06	2.13	2.07	2.08	2.21	2.01	2.21	2.05
Apr 3	2.33	2.40	2.46	2.35	2.29	S	2.07	2.04	2.08	2.06	2.07	2.05	2.08	2.07	2.07	2.02	2.01	2.05	2.01	2.00	2.03	2.00	1.99	1.98	1.98	2.46	2.11
Apr 4	1.98	1.99	1.99	2.02	S	2.00	2.02	2.01	2.01	1.99	1.99	1.99	1.99	1.99	1.98	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.98	2.02	2.00
Apr 5	1.99	2.00	2.02	S	2.01	2.01	2.06	2.02	2.01	2.02	2.02	2.03	2.03	2.04	2.03	2.03	2.03	2.03	2.03	2.05	2.04	2.04	2.04	2.04	1.99	2.06	2.03
Apr 6	2.03	2.03	S	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.09	2.04	2.04	2.05	2.07	2.09	2.12	2.43	2.43	2.46	2.03	2.46	2.10
Apr 7	2.07	S	2.04	2.08	2.05	2.07	2.05	2.05	2.09	2.06	2.09	2.07	2.09	2.04	2.03	2.03	2.05	2.01	2.03	2.04	2.03	2.03	2.04	2.06	2.01	2.09	2.05
Apr 8	S	2.28	2.32	2.49	2.46	2.30	2.09	2.13	2.03	2.02	2.01	2.00	1.99	1.98	1.98	1.99	1.99	1.99	1.99	1.98	2.00	2.00	1.99	S	1.98	2.49	2.09
Apr 9	1.99	1.99	2.00	1.99	2.00	2.00	2.00	2.00	2.00	2.00	1.99	2.00	2.00	2.00	2.00	2.01	2.01	2.02	2.01	2.01	2.02	2.02	S	2.01	1.99	2.02	2.00
Apr 10	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.00	2.01	2.02	2.02	2.02	2.03	2.03	2.04	2.03	2.03	S	2.03	2.03	2.00	2.04	2.02
Apr 11	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.05	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.02	2.03	2.03	2.03	2.03	S	2.04	2.04	2.04	2.02	2.05	2.04
Apr 12	2.05	2.04	2.05	2.05	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.04	2.04	2.04	2.04	S	2.05	2.06	2.06	2.04	2.03	2.06	2.04
Apr 13	2.04	2.05	2.07	2.10	2.09	2.06	2.06	2.06	2.05	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.04	S	2.05	2.07	2.06	2.05	2.05	2.03	2.10	2.05
Apr 14	2.05	2.05	2.06	2.11	2.08	2.09	2.10	2.05	2.04	2.02	2.01	2.01	2.02	2.03	2.04	2.05	2.05	S	2.05	2.04	2.05	2.05	2.04	2.04	2.01	2.11	2.05
Apr 15	2.07	2.09	2.06	2.06	2.06	2.06	2.05	2.06	2.05	2.05	2.05	2.05	2.05	2.05	2.06	2.06	S	2.06	2.05	2.04	2.10	2.22	2.30	2.42	2.04	2.42	2.09
Apr 16	2.23	2.23	2.25	2.26	**2.50**	2.32	2.12	2.07	2.06	2.06	2.04	2.05	2.05	2.04	2.04	S	2.03	2.04	2.03	2.03	2.05	2.13	2.13	2.15	2.03	**2.50**	**2.13**
Apr 17	2.13	2.11	2.08	2.09	2.12	2.07	2.06	2.06	2.04	2.04	2.03	2.05	2.05	2.05	S	2.05	2.05	2.05	2.05	2.04	2.03	2.05	2.04	2.04	2.03	2.13	2.06
Apr 18	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.02	2.03	S	2.02	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.04	2.03
Apr 19	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.02	2.02	S	2.01	2.01	2.02	2.02	2.02	2.02	2.04	2.03	2.03	2.02	2.03	2.01	2.04	2.02
Apr 20	2.05	2.03	2.03	2.07	2.09	2.07	2.05	2.02	2.00	2.01	2.02	S	2.04	C	C	C	C	C	2.04	2.02	2.01	2.03	2.09	2.05	2.00	2.09	2.04
Apr 21	2.03	2.04	2.03	2.02	2.02	2.02	2.03	2.03	2.03	2.05	S	2.08	2.05	2.06	2.05	2.04	2.04	2.04	2.04	2.06	2.05	2.03	2.03	2.05	2.02	2.08	2.04
Apr 22	2.06	2.04	2.04	2.04	2.05	2.10	2.06	2.04	2.05	S	2.05	2.04	2.03	2.03	2.03	2.03	2.02	2.02	2.03	2.05	2.10	2.17	2.05	2.04	2.02	2.17	2.05
Apr 23	2.02	2.03	2.02	2.03	2.02	2.06	2.14	2.04	S	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.03	2.05	2.05	2.04	2.09	2.02	2.14	2.04
Apr 24	2.11	2.08	2.07	2.07	2.07	2.07	2.06	S	2.05	2.05	2.06	2.05	2.03	2.08	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.03	2.04	2.04	2.01	2.11	2.05
Apr 25	2.04	2.04	2.04	2.04	2.08	2.05	S	2.05	2.05	2.07	2.07	2.05	2.04	2.06	2.02	2.01	2.02	2.02	2.01	2.02	2.01	2.01	2.03	2.02	2.01	2.08	2.04
Apr 26	2.03	2.04	2.04	2.02	2.02	S	2.01	2.01	2.00	2.02	2.00	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.01	2.00	2.01	2.01	2.00	2.00	1.99	2.04	2.01
Apr 27	2.00	2.00	2.00	2.00	S	2.01	2.00	2.01	2.02	2.02	2.02	2.01	2.00	2.01	2.00	2.00	2.01	2.00	2.00	2.01	2.01	2.02	2.01	2.02	2.00	2.02	2.01
Apr 28	2.03	2.04	2.08	S	2.00	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.98	2.08	1.99
Apr 29	1.99	2.00	S	1.99	1.99	1.99	1.99	1.99	2.00	2.02	2.01	2.00	2.01	2.01	2.01	2.02	2.02	2.02	2.03	2.02	2.01	2.05	2.04	2.03	1.99	2.05	2.01
Apr 30	2.04	S	2.07	2.04	2.11	2.04	2.02	2.02	2.03	2.03	2.04	2.05	2.04	2.04	2.03	2.03	2.04	2.04	2.04	2.05	2.07	2.09	2.06	2.07	2.02	2.11	2.05
Diurnal Maximum	2.33	2.40	2.46	2.49	2.50	2.32	2.14	2.13	2.09	2.07	2.09	2.08	2.09	2.08	2.09	2.06	2.05	2.06	2.07	2.09	2.13	2.43	2.43	2.46			
Diurnal Average	2.06	2.07	2.07	2.08	2.09	2.06	2.05	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	2.04	2.06	2.06	2.07			

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

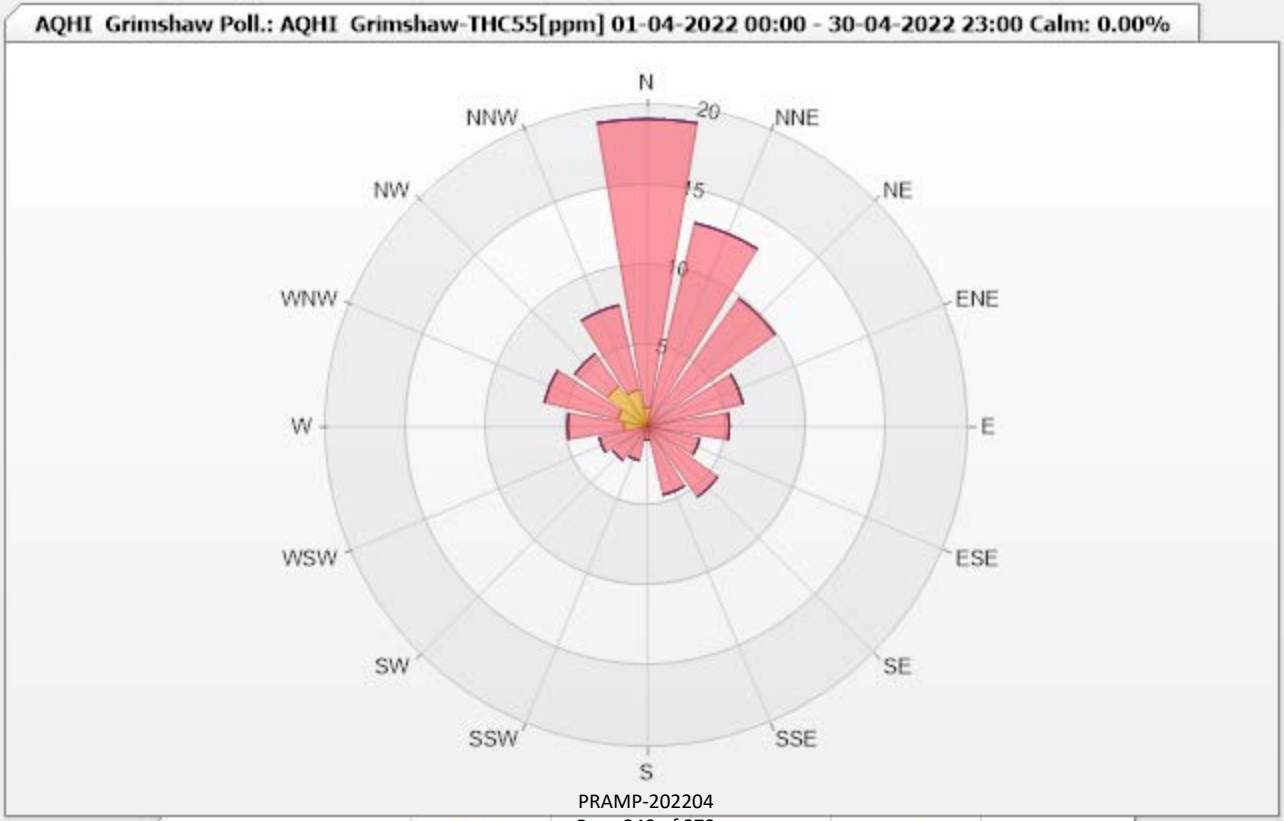




Classes	THC55
<=1.7	0.00%
1.7 - 2	11.40%
2 - 2.5	88.60%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	1.17	17.98	0	0	0	19.15
NNE	0.29	12.72	0	0	0	13.01
NE	0	9.8	0	0	0	9.8
ENE	0	6.14	0	0	0	6.14
E	0.15	4.97	0	0	0	5.12
ESE	0	3.36	0	0	0	3.36
SE	0	5.41	0	0	0	5.41
SSE	0	4.39	0	0	0	4.39
S	0	0.88	0	0	0	0.88
SSW	0.44	1.75	0	0	0	2.19
SW	0	2.63	0	0	0	2.63
WSW	0.29	2.78	0	0	0	3.07
W	1.46	3.51	0	0	0	4.97
WNW	1.9	4.68	0	0	0	6.58
NW	3.07	2.49	0	0	0	5.56
NNW	2.34	5.41	0	0	0	7.75
Summary	11.11	88.9	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] 01-04-2022 00:00 - 30-04-2022 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)
11 0-2
89 2-5
0 5-10
0 10-40
0 >40.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - April 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

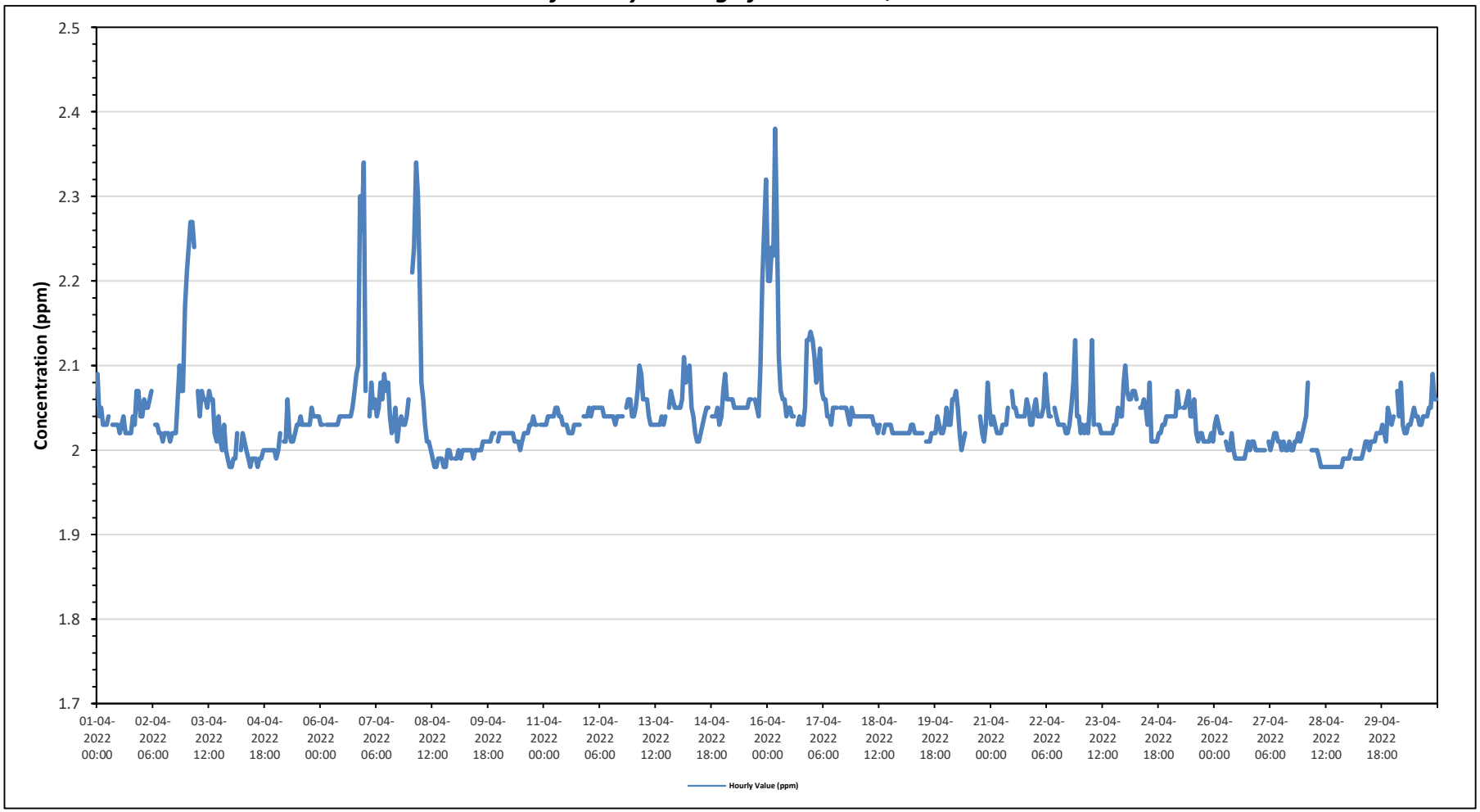
Maximum Hourly Value:	2.38	ppm	on April 16 at hour 4	Hours in Service:	720
Maximum Daily Value:	2.11	ppm	on April 16	Hours of Data:	684
Minimum Hourly Value:	1.98	ppm	on April 3 at hour 23	Hours of Missing Data:	0
Minimum Daily Value:	1.99	ppm	on April 28	Hours of Calibration:	36
Monthly Average:	2.04	ppm		Operational Uptime:	100.0

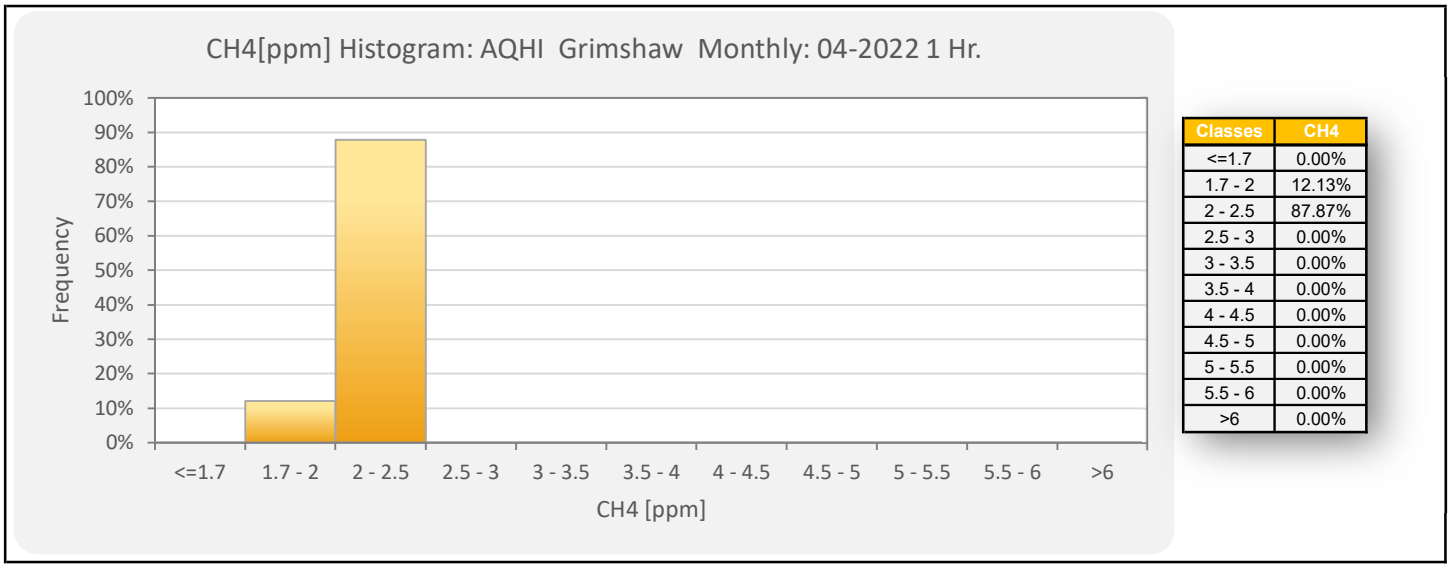
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2.09	2.04	2.05	2.03	2.03	2.03	2.04	S	2.03	2.03	2.03	2.03	2.02	2.03	2.04	2.02	2.02	2.02	2.02	2.04	2.03	2.07	2.07	2.04	2.02	2.09	2.04
Apr 2	2.04	2.06	2.05	2.05	2.06	2.07	S	2.03	2.03	2.02	2.02	2.01	2.02	2.02	2.02	2.01	2.02	2.02	2.02	2.06	2.10	2.07	2.07	2.17	2.01	2.17	2.05
Apr 3	2.21	2.24	2.27	2.27	2.24	S	2.07	2.04	2.07	2.06	2.06	2.05	2.07	2.06	2.06	2.02	2.01	2.04	2.01	2.00	2.03	2.00	1.99	1.98	1.98	2.27	2.08
Apr 4	1.98	1.99	1.99	2.02	S	2.00	2.02	2.01	2.00	1.99	1.98	1.99	1.99	1.99	1.98	1.99	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.98	2.02	2.00
Apr 5	1.99	2.00	2.02	S	2.01	2.01	2.06	2.02	2.01	2.01	2.02	2.03	2.03	2.04	2.03	2.03	2.03	2.03	2.03	2.05	2.04	2.04	2.04	2.04	1.99	2.06	2.03
Apr 6	2.03	2.03	S	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.05	2.07	2.09	2.10	2.30	2.26	2.34	2.03	2.34	2.08
Apr 7	2.07	S	2.04	2.08	2.05	2.06	2.04	2.05	2.08	2.06	2.09	2.07	2.08	2.04	2.02	2.03	2.05	2.01	2.03	2.04	2.03	2.03	2.04	2.06	2.01	2.09	2.05
Apr 8	S	2.21	2.24	2.34	2.30	2.21	2.08	2.06	2.03	2.01	2.01	2.00	1.99	1.98	1.98	1.99	1.99	1.99	1.98	1.98	2.00	2.00	1.99	S	1.98	2.34	2.06
Apr 9	1.99	1.99	2.00	1.99	2.00	2.00	2.00	2.00	2.00	2.00	1.99	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.02	2.02	S	2.01	1.99	2.02	2.00
Apr 10	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.00	2.01	2.02	2.02	2.02	2.03	2.03	2.04	2.03	2.03	S	2.03	2.03	2.00	2.04	2.02
Apr 11	2.03	2.03	2.04	2.04	2.04	2.04	2.05	2.05	2.04	2.04	2.03	2.03	2.03	2.02	2.02	2.02	2.03	2.03	2.03	2.03	S	2.04	2.04	2.04	2.02	2.05	2.03
Apr 12	2.05	2.04	2.05	2.05	2.05	2.05	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.04	2.04	2.04	2.04	S	2.05	2.06	2.06	2.04	2.03	2.06	2.04
Apr 13	2.04	2.05	2.07	2.10	2.09	2.06	2.06	2.06	2.04	2.03	2.03	2.03	2.03	2.03	2.03	2.04	2.03	2.04	S	2.05	2.07	2.06	2.05	2.05	2.03	2.10	2.05
Apr 14	2.05	2.05	2.06	2.11	2.08	2.09	2.10	2.05	2.04	2.02	2.01	2.01	2.02	2.03	2.04	2.05	2.05	S	2.04	2.04	2.04	2.05	2.03	2.04	2.01	2.11	2.05
Apr 15	2.07	2.09	2.06	2.06	2.06	2.06	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.06	2.06	S	2.06	2.05	2.04	2.10	2.20	2.26	2.32	2.04	2.32	2.08
Apr 16	2.20	2.20	2.24	2.23	**2.38**	2.26	2.11	2.07	2.06	2.06	2.04	2.05	2.05	2.04	2.04	S	2.03	2.04	2.03	2.03	2.05	2.13	2.13	2.14	2.03	**2.38**	**2.11**
Apr 17	2.13	2.11	2.08	2.09	2.12	2.07	2.06	2.06	2.04	2.04	2.03	2.05	2.05	2.05	S	2.05	2.05	2.05	2.05	2.04	2.03	2.05	2.04	2.04	2.03	2.13	2.06
Apr 18	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.04	2.03	2.03	2.02	2.03	S	2.02	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.04	2.03
Apr 19	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.02	2.02	2.02	2.02	2.02	S	2.01	2.01	2.01	2.02	2.02	2.02	2.04	2.03	2.02	2.02	2.03	2.01	2.04	2.02
Apr 20	2.05	2.03	2.03	2.06	2.06	2.07	2.05	2.02	2.00	2.01	2.02	S	2.04	C	C	C	C	C	2.04	2.02	2.01	2.03	2.08	2.05	2.00	2.08	2.04
Apr 21	2.03	2.04	2.03	2.02	2.02	2.02	2.03	2.03	2.03	2.05	S	2.07	2.05	2.05	2.04	2.04	2.04	2.04	2.04	2.06	2.05	2.03	2.03	2.05	2.02	2.07	2.04
Apr 22	2.06	2.04	2.04	2.04	2.05	2.09	2.06	2.04	2.04	S	2.05	2.04	2.03	2.03	2.03	2.03	2.02	2.02	2.03	2.05	2.08	2.13	2.04	2.04	2.02	2.13	2.05
Apr 23	2.02	2.03	2.02	2.03	2.02	2.06	2.13	2.03	S	2.03	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.03	2.03	2.05	2.04	2.04	2.08	2.02	2.13	2.04
Apr 24	2.10	2.07	2.06	2.06	2.07	2.07	2.06	S	2.05	2.05	2.06	2.05	2.03	2.08	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.03	2.04	2.04	2.01	2.10	2.04
Apr 25	2.04	2.04	2.04	2.04	2.07	2.05	S	2.05	2.05	2.06	2.07	2.04	2.04	2.06	2.02	2.01	2.02	2.02	2.01	2.01	2.01	2.01	2.02	2.01	2.01	2.07	2.03
Apr 26	2.03	2.04	2.03	2.02	2.02	S	2.01	2.00	2.00	2.02	2.00	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.01	2.00	2.01	2.01	2.00	2.00	1.99	2.04	2.01
Apr 27	2.00	2.00	2.00	2.00	S	2.01	2.00	2.01	2.02	2.02	2.01	2.01	2.00	2.01	2.00	2.00	2.01	2.00	2.00	2.01	2.01	2.02	2.01	2.02	2.00	2.02	2.01
Apr 28	2.03	2.04	2.08	S	2.00	2.00	2.00	2.00	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	1.99	1.99	1.98	2.08	1.99
Apr 29	1.99	2.00	S	1.99	1.99	1.99	1.99	1.99	2.00	2.01	2.01	2.00	2.01	2.01	2.01	2.02	2.02	2.02	2.03	2.02	2.01	2.05	2.04	2.03	1.99	2.05	2.01
Apr 30	2.04	S	2.07	2.04	2.08	2.03	2.02	2.02	2.03	2.03	2.04	2.05	2.04	2.04	2.03	2.03	2.04	2.04	2.04	2.05	2.05	2.09	2.06	2.06	2.02	2.09	2.04
Diurnal Maximum	2.21	2.24	2.27	2.34	2.38	2.26	2.13	2.07	2.08	2.06	2.09	2.07	2.08	2.08	2.06	2.06	2.05	2.06	2.07	2.09	2.10	2.30	2.26	2.34			
Diurnal Average	2.05	2.06	2.06	2.07	2.07	2.05	2.05	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.02	2.02	2.02	2.02	2.03	2.03	2.04	2.05	2.05	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 - AQHI - Grimshaw Station

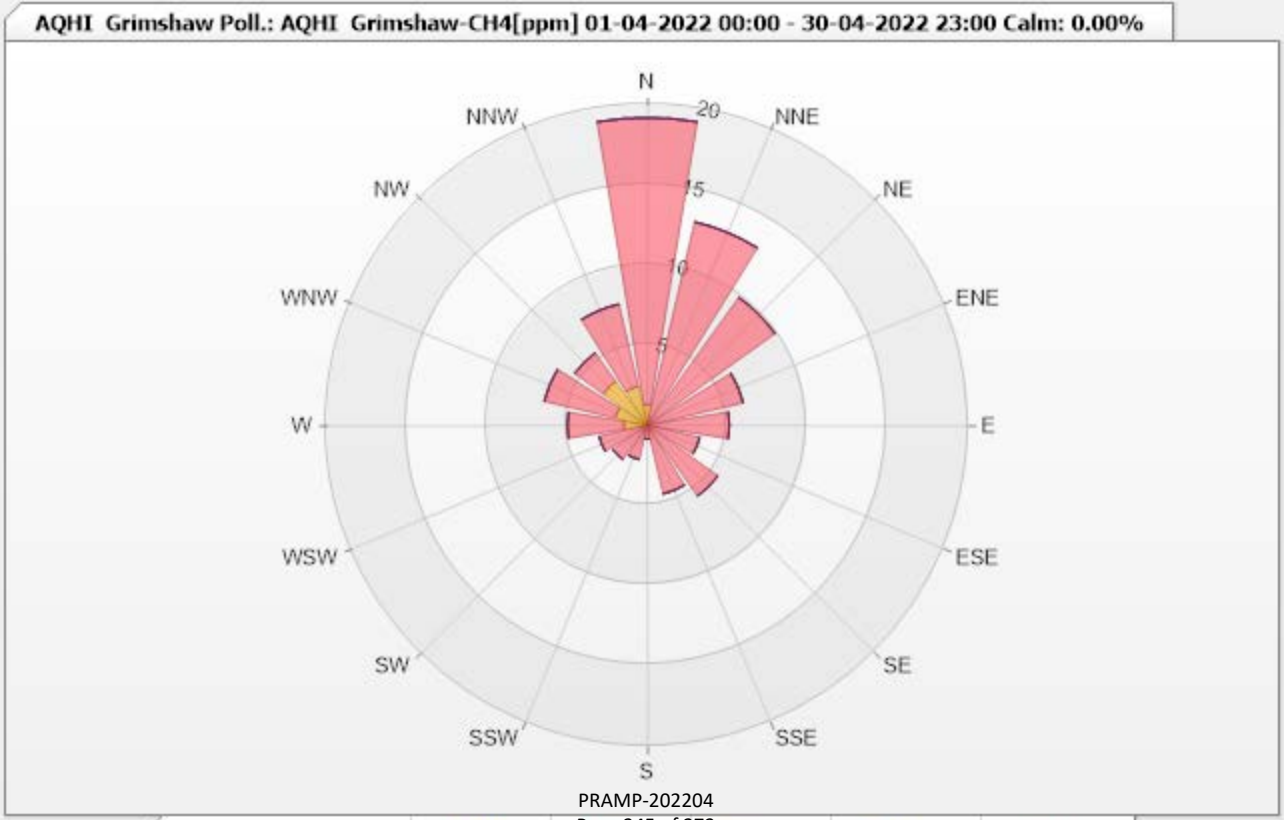




Classes	CH4
<=1.7	0.00%
1.7 - 2	12.13%
2 - 2.5	87.87%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	1.32	17.84	0	0	0	19.16
NNE	0.29	12.72	0	0	0	13.01
NE	0	9.8	0	0	0	9.8
ENE	0	6.14	0	0	0	6.14
E	0.15	4.97	0	0	0	5.12
ESE	0	3.36	0	0	0	3.36
SE	0	5.41	0	0	0	5.41
SSE	0	4.39	0	0	0	4.39
S	0	0.88	0	0	0	0.88
SSW	0.44	1.75	0	0	0	2.19
SW	0	2.63	0	0	0	2.63
WSW	0.29	2.78	0	0	0	3.07
W	1.46	3.51	0	0	0	4.97
WNW	2.05	4.53	0	0	0	6.58
NW	3.36	2.19	0	0	0	5.55
NNW	2.49	5.26	0	0	0	7.75
Summary	11.85	88.16	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] 01-04-2022 00:00 - 30-04-2022 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)
12 0-2
88 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 - April 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

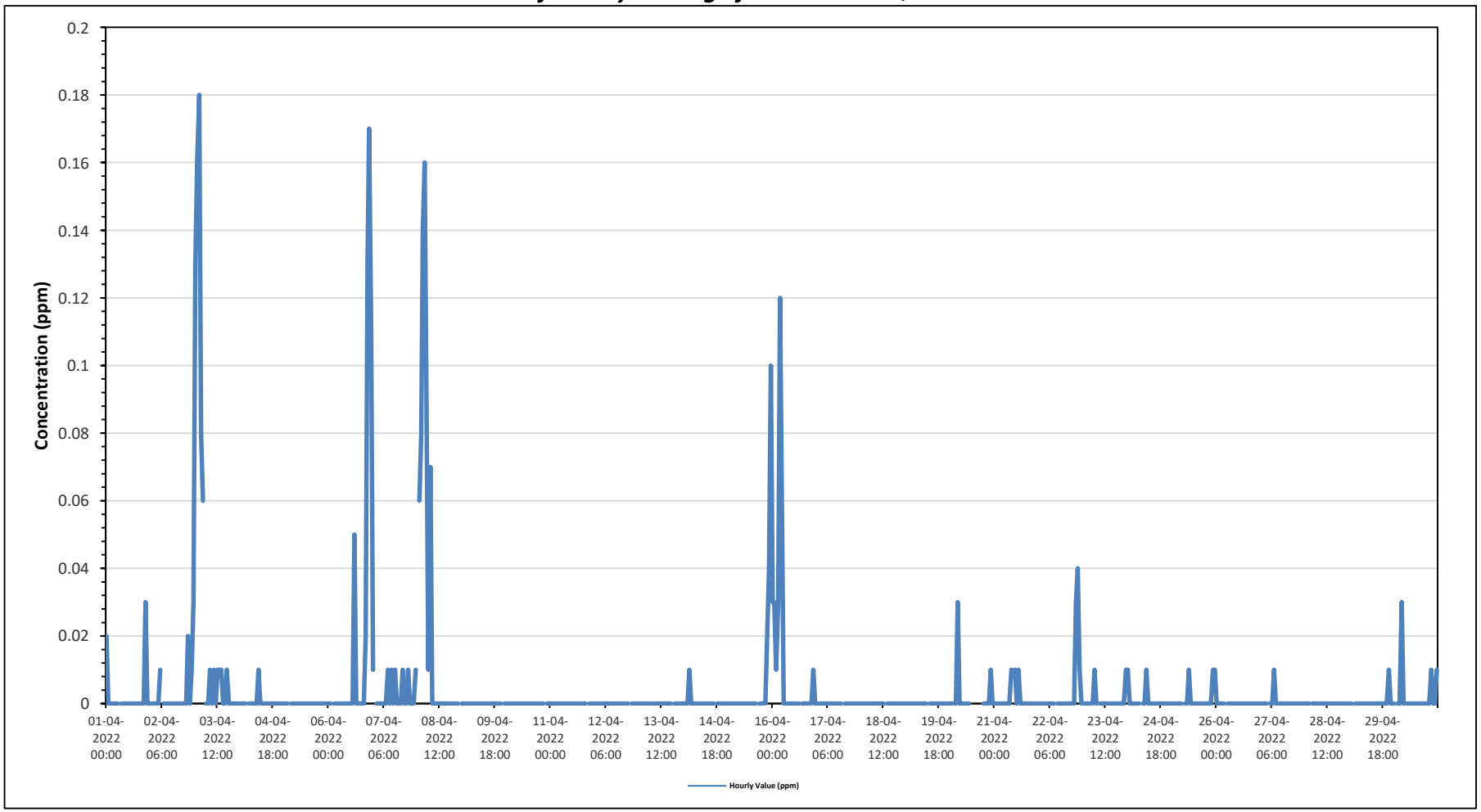
Maximum Hourly Value:	0.18	ppm	on April 3 at hour 2	Hours in Service:	720
Maximum Daily Value:	0.03	ppm	on April 3	Hours of Data:	684
Minimum Hourly Value:	0.00	ppm	on April 1 at hour 1	Hours of Missing Data:	0
Minimum Daily Value:	0.00	ppm	on April 5	Hours of Calibration:	36
Monthly Average:	0.00	ppm		Operational Uptime:	100.0

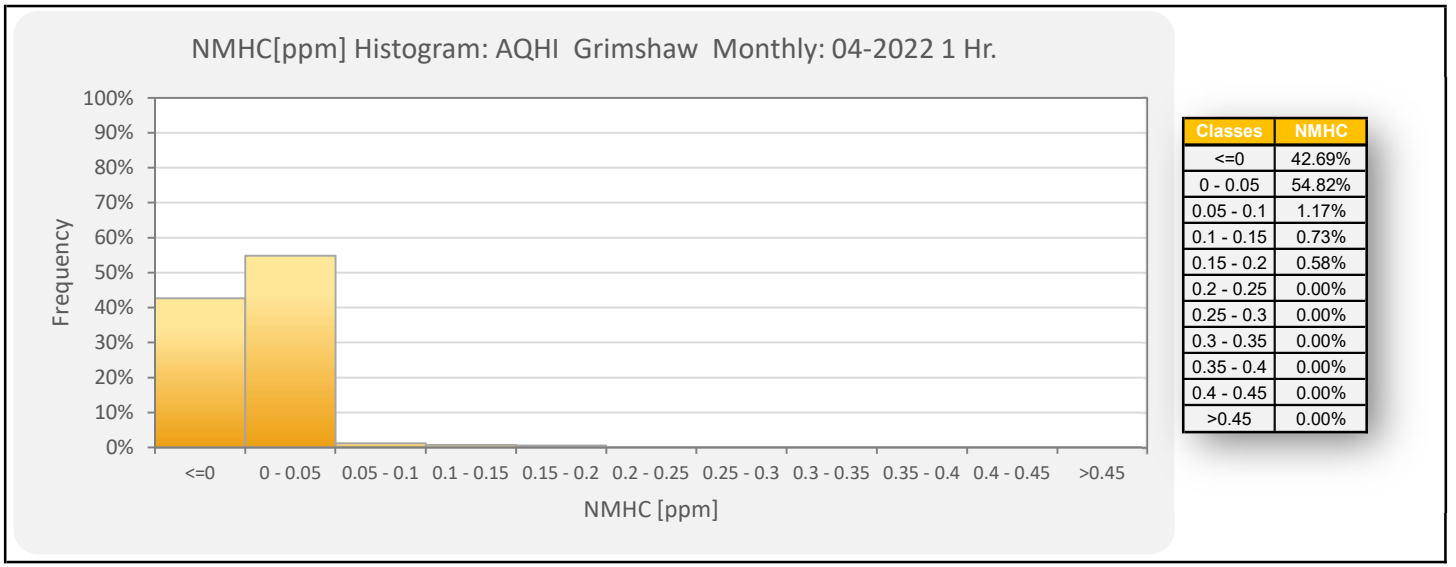
Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	0.02	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.03	0.00
Apr 2	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.03	0.00	0.03	0.00
Apr 3	0.13	0.16	**0.18**	0.08	0.06	S	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.18**	**0.03**
Apr 4	0.00	0.00	0.00	0.00	S	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	0.01	0.00
Apr 5	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
Apr 6	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	0.05	0.00	0.00	0.00	0.00	0.00	0.02	0.13	0.17	0.11	0.00	0.17	0.02
Apr 7	0.01	S	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00
Apr 8	S	0.06	0.08	0.14	0.16	0.09	0.01	0.07	0.00	0.00	0.00	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	0.16	0.03
Apr 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	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
Apr 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	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
Apr 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	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
Apr 12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 13	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 14	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	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Apr 15	0.00	0.00	0.00	0.00	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	0.02	0.04	0.10	0.00	0.10	0.01
Apr 16	0.03	0.03	0.01	0.03	0.12	0.06	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	0.01	0.00	0.00	0.12	0.01
Apr 17	0.00	0.00	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
Apr 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Apr 20	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	C	C	C	C	C	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.00
Apr 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	S	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Apr 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.01	0.00	0.00	0.04	0.00
Apr 23	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	0.00	0.01	0.00	0.01	0.00
Apr 24	0.01	0.00	0.00	0.00	0.00	0.00	0.00	S	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	0.01	0.00
Apr 25	0.00	0.00	0.00	0.00	0.00	0.00	S	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	0.01	0.01	0.00	0.01	0.00
Apr 26	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
Apr 27	0.00	0.00	0.00	0.00	S	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Apr 28	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
Apr 29	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	0.01	0.00	0.00	0.00	0.01	0.00
Apr 30	0.00	S	0.00	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	0.01	0.00	0.00	0.01	0.00	0.03	0.00
Diurnal Maximum	0.13	0.16	0.18	0.14	0.16	0.09	0.01	0.07	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.00	0.01	0.01	0.00	0.01	0.03	0.13	0.17	0.11			
Diurnal Average	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01			

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

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

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

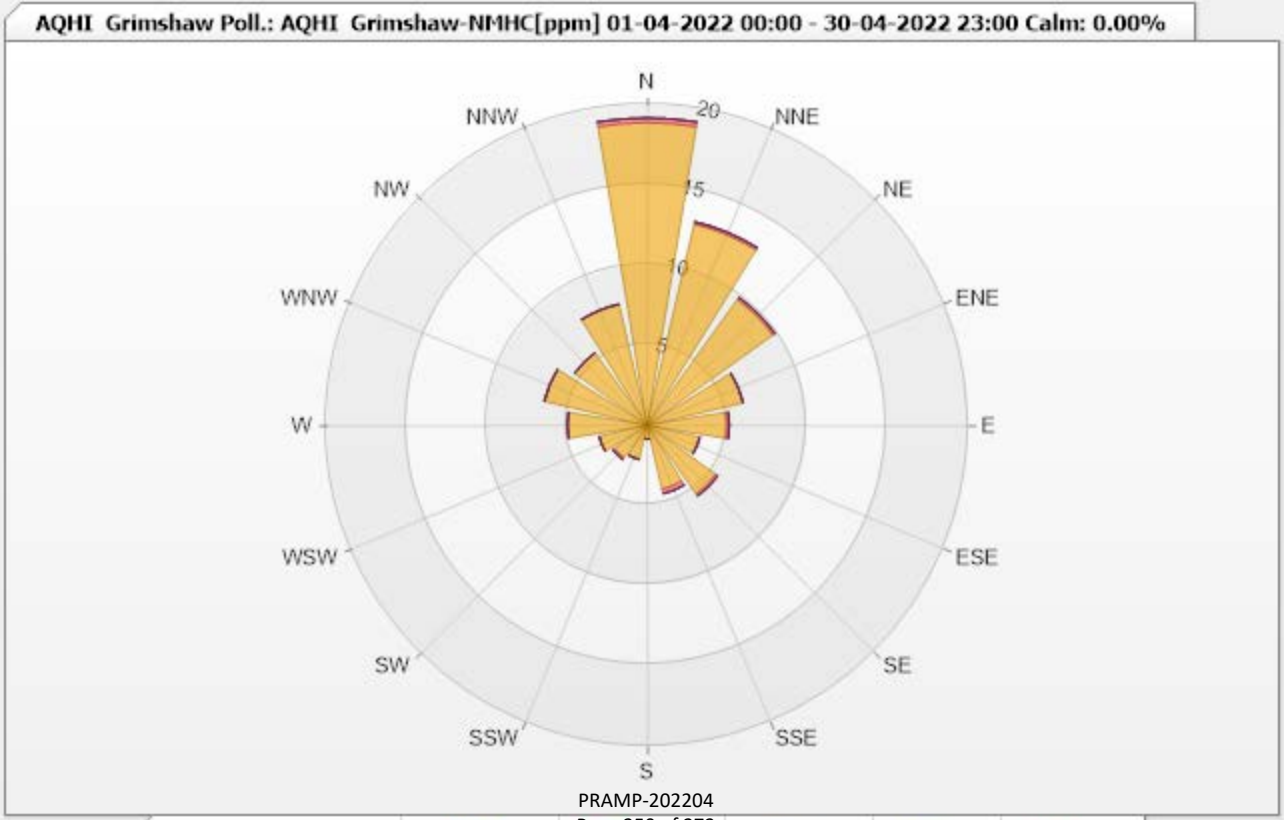




Classes	NMHC
<=0	42.69%
0 - 0.05	54.82%
0.05 - 0.1	1.17%
0.1 - 0.15	0.73%
0.15 - 0.2	0.58%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.00% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	18.86	0.29	0	0	0	19.15
NNE	12.87	0.15	0	0	0	13.02
NE	9.65	0.15	0	0	0	9.8
ENE	6.14	0	0	0	0	6.14
E	4.97	0.15	0	0	0	5.12
ESE	3.36	0	0	0	0	3.36
SE	5.26	0.15	0	0	0	5.41
SSE	4.09	0.29	0	0	0	4.38
S	0.88	0	0	0	0	0.88
SSW	2.19	0	0	0	0	2.19
SW	2.49	0.15	0	0	0	2.64
WSW	3.07	0	0	0	0	3.07
W	4.97	0	0	0	0	4.97
WNW	6.58	0	0	0	0	6.58
NW	5.56	0	0	0	0	5.56
NNW	7.75	0	0	0	0	7.75
Summary	98.69	1.33	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] 01-04-2022 00:00 - 30-04-2022 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 - April 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

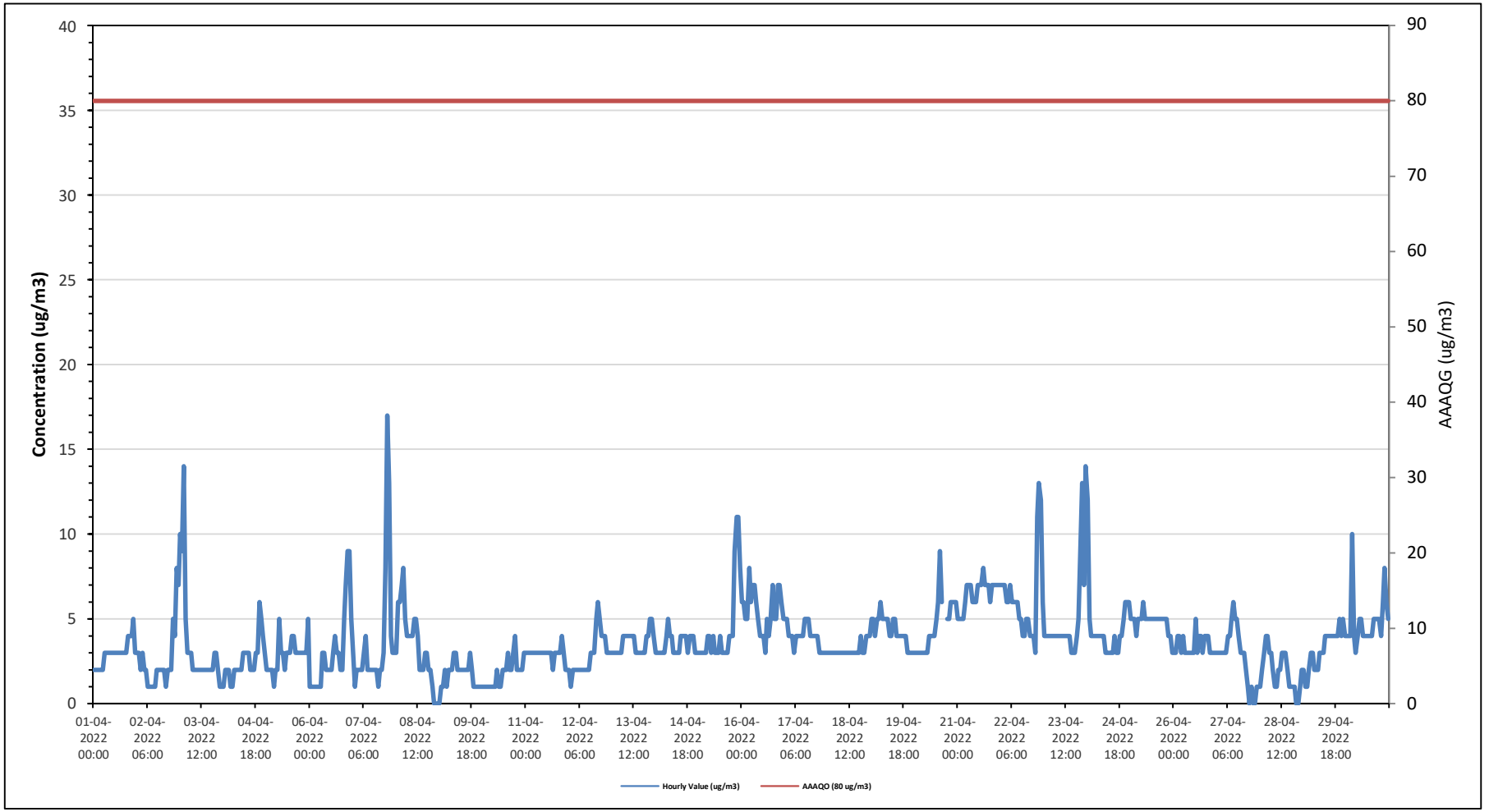
Maximum Hourly Value:	17.0 $\mu g/m^3$ on April 7 at hour 19	Hours in Service:	720
Maximum Daily Value:	6.5 $\mu g/m^3$ on April 21	Hours of Data:	718
Minimum Hourly Value:	0.0 $\mu g/m^3$ on April 8 at hour 21	Hours of Missing Data:	0
Minimum Daily Value:	1.7 $\mu g/m^3$ on April 9	Hours of Calibration:	2
Monthly Average:	3.7 $\mu g/m^3$	Operational Uptime:	100.0

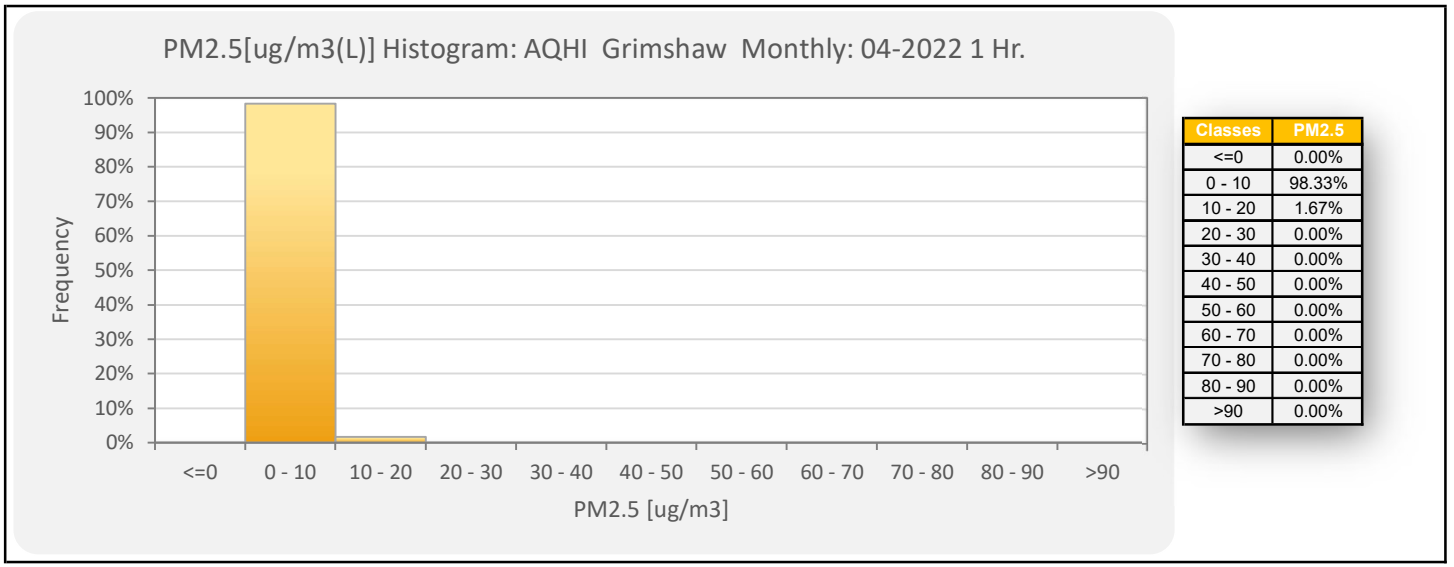
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	5	3		2.0	5.0	3.0
Apr 2	3	3	2	3	2	2	1	1	1	1	1	2	2	2	2	2	1	2	2	2	5	4	8	7	1.0	8.0	2.5
Apr 3	10	9	14	5	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	3	3	2	1	1	1.0	14.0	3.4
Apr 4	1	2	2	2	1	1	2	2	2	2	2	3	3	3	3	2	2	2	3	3	6	5	4	3	1.0	6.0	2.5
Apr 5	2	2	2	2	1	2	2	5	3	3	2	3	3	3	4	4	3	3	3	3	3	3	3	5	1.0	5.0	2.9
Apr 6	1	1	1	1	1	1	1	3	3	2	2	2	2	3	4	3	3	2	2	5	7	9	9	5	1.0	9.0	3.0
Apr 7	3	1	2	2	2	2	3	4	2	2	2	2	2	2	1	2	2	3	8	**17**	13	4	3	3	1.0	**17.0**	3.6
Apr 8	3	6	6	7	8	5	4	4	4	4	5	5	4	2	2	2	3	3	2	2	1	0	0	0	0.0	8.0	3.4
Apr 9	0	1	1	2	1	2	2	2	3	3	2	2	2	2	2	2	2	3	2	1	1	1	1	1	0.0	3.0	1.7
Apr 10	1	1	1	1	1	1	1	1	2	1	1	2	2	2	3	2	2	3	4	2	2	2	2	3	1.0	4.0	1.8
Apr 11	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	4	3	2	2	2.0	4.0	2.9
Apr 12	2	1	2	2	2	2	2	2	2	2	2	2	3	3	3	5	6	5	4	4	4	3	3	3	1.0	6.0	2.9
Apr 13	3	3	3	3	3	3	4	4	4	4	4	4	4	3	3	3	3	3	3	4	4	5	5	4	3.0	5.0	3.6
Apr 14	3	3	3	3	3	3	4	5	4	4	3	3	3	3	4	4	4	4	3	4	4	4	3	3	3.0	5.0	3.5
Apr 15	3	3	3	3	3	4	4	3	4	3	3	3	4	3	3	3	3	4	4	4	9	11	11	8	3.0	11.0	4.4
Apr 16	6	6	5	5	8	6	7	7	6	5	4	4	4	3	5	4	5	7	5	5	7	7	6	5	3.0	8.0	5.5
Apr 17	5	5	4	4	4	3	4	4	4	4	4	5	5	5	4	4	4	4	4	3	3	3	3	3	3.0	5.0	4.0
Apr 18	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	3	3	4	4	4	3.0	4.0	3.2
Apr 19	5	5	4	5	5	6	5	5	5	5	4	4	5	5	4	4	4	4	4	4	3	3	3	3	3.0	6.0	4.3
Apr 20	3	3	3	3	3	3	3	3	4	4	4	4	5	6	9	6	C	C	5	5	6	6	6	6	3.0	9.0	4.5
Apr 21	5	5	5	5	6	7	7	7	6	6	6	7	7	7	8	7	7	7	6	7	7	7	7	7	5.0	8.0	**6.5**
Apr 22	7	7	7	6	6	7	6	6	6	6	5	5	4	4	5	5	4	4	4	3	11	13	12	6	3.0	13.0	6.2
Apr 23	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	4	5	9	13	7	14	3.0	14.0	5.0
Apr 24	12	5	4	4	4	4	4	4	4	4	3	3	3	3	3	4	3	3	4	4	5	6	6	6	3.0	12.0	4.4
Apr 25	5	5	5	4	5	5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	3	3.0	6.0	4.8
Apr 26	3	3	4	4	3	4	3	3	3	3	3	3	5	3	4	4	3	4	4	4	3	3	3	3	3.0	5.0	3.4
Apr 27	3	3	3	3	3	3	4	4	5	6	5	5	4	3	3	3	2	1	0	1	0	0	1	1	0.0	6.0	2.8
Apr 28	1	2	3	4	4	3	3	2	1	1	2	2	3	3	3	2	1	1	1	1	0	0	1	2	0.0	4.0	1.9
Apr 29	2	1	1	2	3	3	2	2	2	3	3	3	4	4	4	4	4	4	4	4	5	4	5	4	1.0	5.0	3.2
Apr 30	4	4	4	10	4	3	4	5	5	4	4	4	4	4	4	5	5	5	5	4	6	8	6	5	3.0	10.0	4.8
Diurnal Maximum	12	9	14	10	8	7	7	7	6	6	6	7	7	7	9	7	7	7	8	17	13	13	12	14			
Diurnal Average	3.6	3.4	3.5	3.6	3.4	3.3	3.4	3.6	3.5	3.4	3.2	3.4	3.6	3.4	3.7	3.5	3.3	3.4	3.6	4.0	4.8	4.7	4.5	4.1			

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 PM2.5 - AQHI - Grimshaw Station

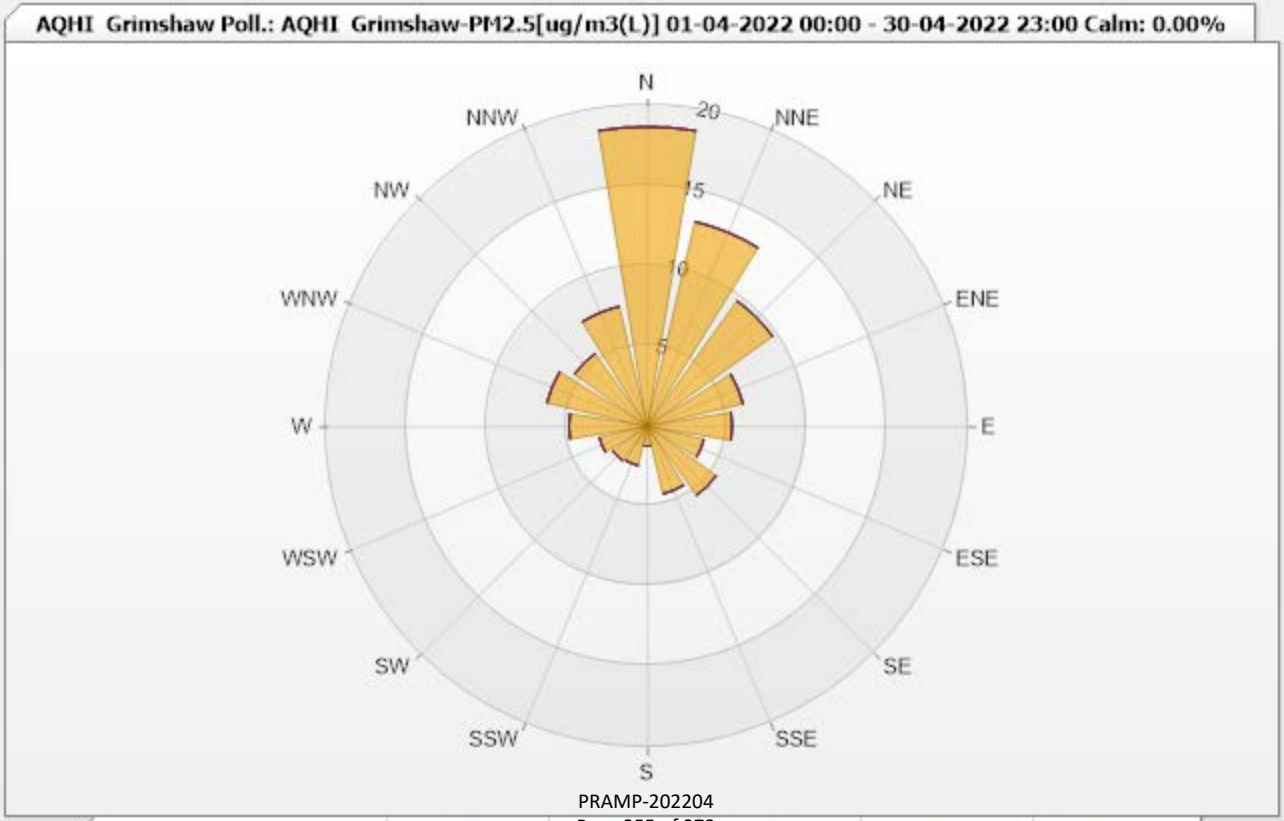




Classes	PM2.5
<=0	0.00%
0 - 10	98.33%
10 - 20	1.67%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] Monthly: 04-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 99.72% Calm Avg: 0.00 [ug/m3(L)]

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	18.66	0	0	0	0	18.66
NNE	13.09	0	0	0	0	13.09
NE	9.61	0	0	0	0	9.61
ENE	6.13	0	0	0	0	6.13
E	5.29	0	0	0	0	5.29
ESE	3.62	0	0	0	0	3.62
SE	5.29	0	0	0	0	5.29
SSE	4.32	0	0	0	0	4.32
S	1.25	0	0	0	0	1.25
SSW	2.51	0	0	0	0	2.51
SW	2.65	0	0	0	0	2.65
WSW	3.06	0	0	0	0	3.06
W	4.87	0	0	0	0	4.87
WNW	6.41	0	0	0	0	6.41
NW	5.57	0	0	0	0	5.57
NNW	7.66	0	0	0	0	7.66
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] 01-04-2022 00:00 - 30-04-2022 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 - April 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

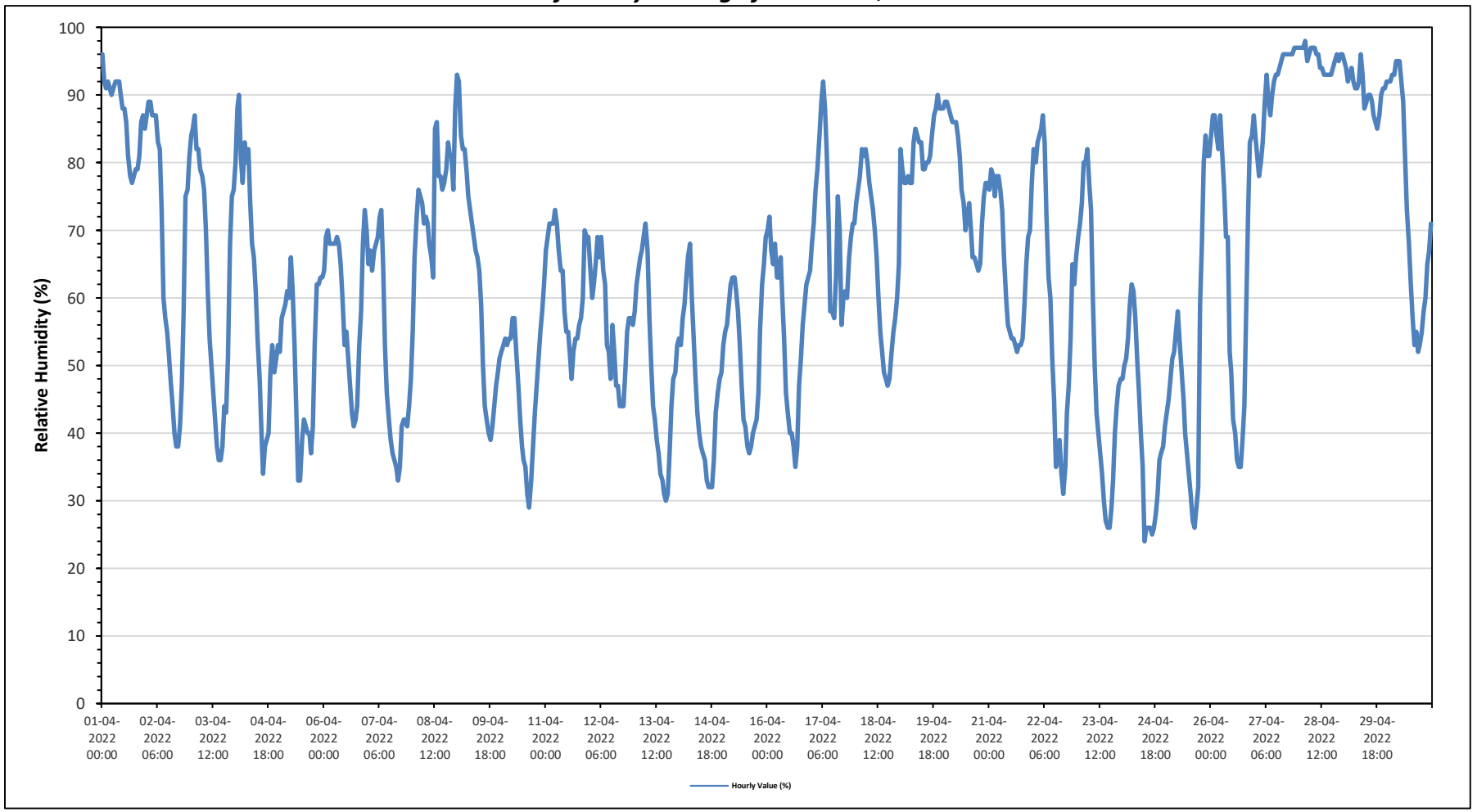
Maximum Hourly Value:	98	%	on April 28 at hour 3	Hours in Service:	720
Maximum Daily Value:	95.3	%	on April 28	Hours of Data:	720
Minimum Hourly Value:	24	%	on April 24 at hour 12	Hours of Missing Data:	0
Minimum Daily Value:	40.8	%	on April 24	Hours of Calibration:	0
Monthly Average:	64.0	%		Operational 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			
Apr 1	96	92	91	92	91	90	91	92	92	92	90	88	88	86	81	78	77	78	79	79	81	86	87	85	77	96	86.8
Apr 2	87	89	89	87	87	87	83	82	73	60	57	55	52	48	44	40	38	38	41	47	58	75	76	81	38	89	65.6
Apr 3	84	85	87	82	82	79	78	76	70	61	54	50	46	42	38	36	36	38	44	43	51	68	75	76	36	87	61.7
Apr 4	80	88	90	81	77	83	80	82	74	68	66	61	54	48	40	34	38	39	40	49	53	49	51	53	34	90	61.6
Apr 5	52	57	58	59	61	60	66	61	53	43	33	33	39	42	41	40	40	37	41	53	62	62	63	63	33	66	50.8
Apr 6	64	69	70	68	68	68	68	69	68	65	60	53	55	51	47	43	41	42	44	53	58	68	73	70	41	73	59.8
Apr 7	65	67	64	67	68	69	72	73	65	53	46	42	39	37	36	35	33	35	41	42	42	41	44	48	33	73	51.0
Apr 8	55	66	72	76	75	74	71	72	71	68	66	63	85	86	78	78	76	77	79	83	81	81	76	88	55	88	74.9
Apr 9	93	92	84	82	82	79	75	73	71	69	67	66	64	59	50	44	42	40	39	41	44	47	49	51	39	93	62.6
Apr 10	52	53	54	53	54	54	57	57	52	47	42	38	36	35	31	29	33	38	43	47	51	55	58	62	29	62	47.1
Apr 11	67	69	71	71	71	73	71	67	64	64	58	55	55	52	48	52	54	54	56	57	60	70	69	69	48	73	62.4
Apr 12	64	60	62	65	69	66	69	64	62	53	52	48	56	52	47	47	44	44	44	49	55	57	57	56	44	69	55.9
Apr 13	58	62	64	66	67	69	71	67	57	50	44	42	39	37	34	33	31	30	31	37	44	48	49	53	30	71	49.3
Apr 14	54	53	57	59	63	66	68	60	54	48	43	40	38	37	36	33	32	32	32	36	43	46	48	49	32	68	47.0
Apr 15	53	55	56	59	62	63	63	61	58	53	47	42	41	38	37	38	40	41	42	46	55	62	65	69	37	69	51.9
Apr 16	70	72	67	65	68	63	63	66	60	54	46	43	40	40	38	35	38	47	51	56	59	62	63	64	35	72	55.4
Apr 17	68	71	76	79	84	89	92	88	81	71	58	58	57	63	75	70	56	60	61	60	66	69	71	71	56	92	70.6
Apr 18	74	76	78	82	81	82	80	77	75	73	70	66	60	55	52	49	48	47	48	52	55	57	60	65	47	82	65.1
Apr 19	82	79	77	77	78	77	77	83	85	84	83	83	79	79	80	80	81	84	87	88	90	88	88	88	77	90	82.4
Apr 20	89	89	88	87	86	86	86	84	81	76	74	70	72	74	70	66	66	65	64	65	71	75	77	77	64	89	76.6
Apr 21	76	79	78	75	78	78	76	73	66	60	56	55	54	54	53	52	53	53	54	59	65	69	70	77	52	79	65.1
Apr 22	82	80	83	84	85	87	83	72	63	60	51	45	35	37	39	34	31	35	43	47	54	65	62	66	31	87	59.3
Apr 23	69	71	74	80	80	82	77	73	60	50	43	40	37	34	30	27	26	26	29	33	40	44	47	48	26	82	50.8
Apr 24	48	50	51	54	59	62	61	57	51	46	40	35	**24**	26	26	26	25	26	28	31	36	37	38	41	**24**	62	40.8
Apr 25	43	45	48	51	52	55	58	53	49	45	40	37	34	31	27	26	29	32	59	68	80	84	81	81	26	84	50.3
Apr 26	84	87	87	84	82	87	81	76	69	69	52	49	42	40	36	35	35	39	44	58	72	83	84	87	35	87	65.1
Apr 27	84	81	78	80	83	89	93	89	87	90	92	93	93	94	95	96	96	96	96	96	96	97	97	97	78	97	91.2
Apr 28	97	97	97	**98**	95	96	97	97	97	96	96	94	94	93	93	93	93	93	94	95	96	95	96	96	93	**98**	**95.3**
Apr 29	95	94	92	93	94	92	91	91	92	96	93	88	89	90	90	89	87	86	85	87	90	91	91	92	85	96	90.8
Apr 30	92	92	93	93	95	95	95	92	89	81	73	68	62	57	53	55	52	53	55	58	60	65	67	71	52	95	73.6
Diurnal Maximum	97	97	97	98	95	96	97	97	97	96	96	94	94	94	95	96	96	96	96	96	96	97	97	97			
Diurnal Average	72.6	74.0	74.5	75.0	75.9	76.7	76.4	74.2	69.6	64.8	59.7	56.7	55.3	53.9	51.5	49.8	49.0	50.2	53.1	57.2	62.3	66.5	67.7	69.8			

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 - AQHI - Grimshaw Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - April 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

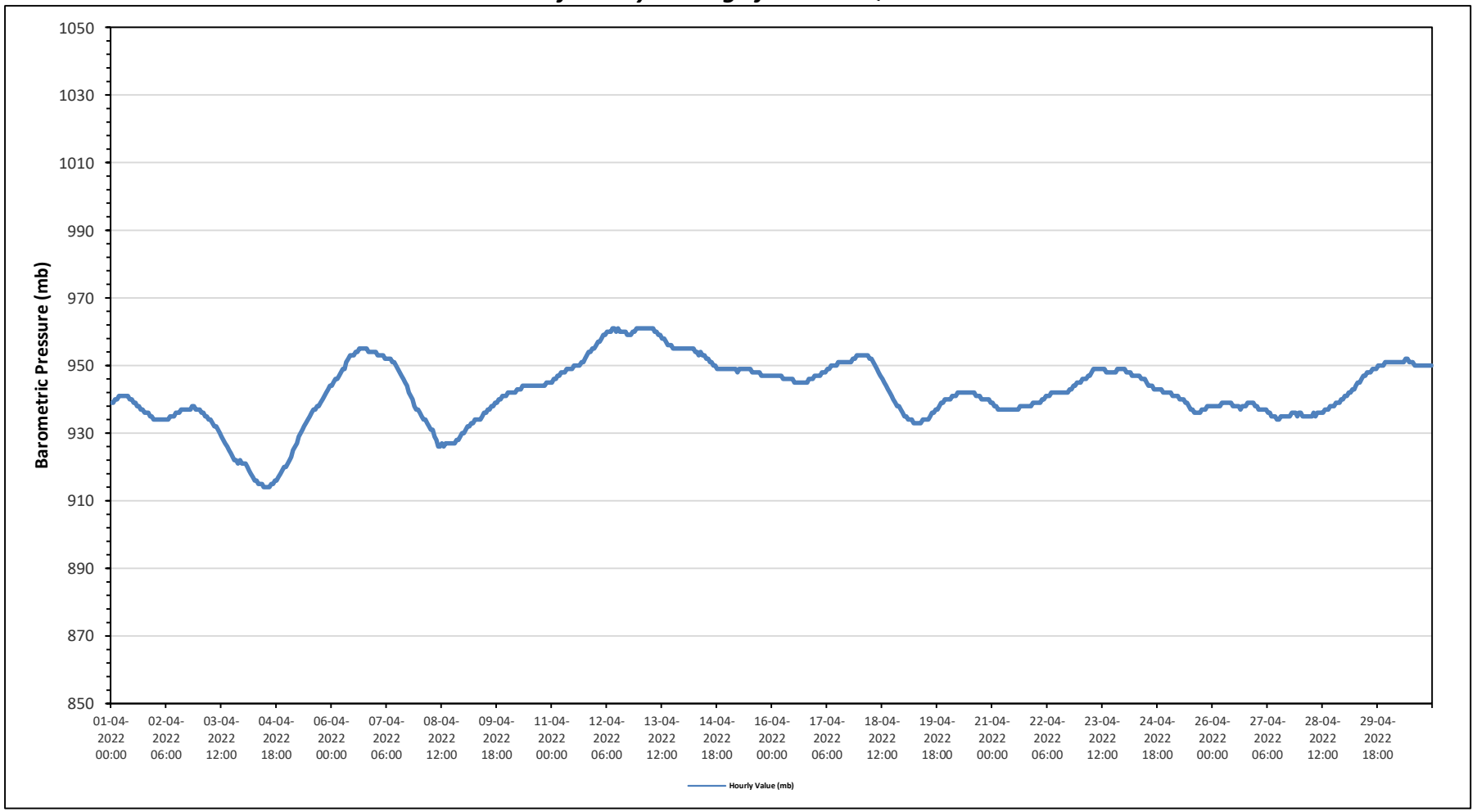
Maximum Hourly Value:	961	mb	on April 12 at hour 9	Hours in Service:	720
Maximum Daily Value:	960	mb	on April 12	Hours of Data:	720
Minimum Hourly Value:	914	mb	on April 4 at hour 11	Hours of Missing Data:	0
Minimum Daily Value:	917	mb	on April 4	Hours of Calibration:	0
Monthly Average:	942	mb		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																							Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Apr 1	939	939	940	940	941	941	941	941	941	941	940	940	939	939	938	938	937	937	936	936	936	935	935	934	934	941	939
Apr 2	934	934	934	934	934	934	934	934	935	935	935	936	936	936	937	937	937	937	937	937	938	938	937	937	934	938	936
Apr 3	937	936	936	935	935	934	934	933	932	932	931	930	929	928	927	926	925	924	923	922	922	921	922	921	921	937	929
Apr 4	921	921	920	919	918	917	916	916	915	915	915	**914**	**914**	**914**	**914**	915	915	916	916	917	918	919	920	920	**914**	921	917
Apr 5	921	922	923	925	926	927	929	930	931	932	933	934	935	936	937	937	938	938	939	940	941	942	943	944	921	944	933
Apr 6	944	945	946	946	947	948	949	949	951	952	953	953	953	954	954	955	955	955	955	955	954	954	954	954	944	955	951
Apr 7	954	953	953	953	953	952	952	952	952	951	951	950	949	948	947	946	945	944	942	941	940	938	937	937	937	954	948
Apr 8	936	935	934	934	933	932	931	931	929	928	926	926	927	926	927	927	927	927	927	927	928	928	929	930	926	936	929
Apr 9	930	931	932	932	933	933	934	934	934	934	935	936	936	937	937	938	938	939	939	940	940	941	941	941	930	941	936
Apr 10	942	942	942	942	942	943	943	943	944	944	944	944	944	944	944	944	944	944	944	944	944	945	945	945	942	945	944
Apr 11	945	946	946	947	947	948	948	948	949	949	949	949	950	950	950	950	951	951	952	953	954	954	955	955	945	955	950
Apr 12	956	957	957	958	959	959	960	960	960	**961**	**961**	960	**961**	960	960	960	960	959	959	959	960	960	**961**	**961**	956	**961**	**960**
Apr 13	**961**	**961**	**961**	**961**	**961**	**961**	**961**	**961**	960	960	959	959	958	958	957	956	956	956	955	955	955	955	955	955	955	**961**	958
Apr 14	955	955	955	955	955	955	954	954	953	954	953	953	952	952	951	951	950	950	949	949	949	949	949	949	949	955	952
Apr 15	949	949	949	949	949	948	949	949	949	949	949	949	949	948	948	948	948	948	947	947	947	947	947	947	947	949	948
Apr 16	947	947	947	947	947	947	946	946	946	946	946	946	945	945	945	945	945	945	945	945	946	946	946	947	945	947	946
Apr 17	947	947	947	948	948	948	949	949	950	950	950	950	951	951	951	951	951	951	951	951	952	952	953	953	947	953	950
Apr 18	953	953	953	953	953	952	952	951	950	949	948	947	946	945	944	943	942	941	940	939	938	938	937	936	936	953	946
Apr 19	935	935	934	934	934	933	933	933	933	933	934	934	934	934	935	936	936	937	937	938	939	939	940	940	933	940	935
Apr 20	940	940	941	941	941	942	942	942	942	942	942	942	942	942	942	941	941	941	940	940	940	940	940	939	939	942	941
Apr 21	939	938	938	937	937	937	937	937	937	937	937	937	937	937	937	938	938	938	938	938	938	938	939	939	937	939	938
Apr 22	939	939	939	940	940	941	941	941	942	942	942	942	942	942	942	942	942	942	943	943	944	944	945	945	939	945	942
Apr 23	945	946	946	946	947	947	948	949	949	949	949	949	949	949	948	948	948	948	948	948	949	949	949	949	945	949	948
Apr 24	949	948	948	948	947	947	947	947	947	946	946	946	945	944	944	944	943	943	943	943	943	942	942	942	942	949	945
Apr 25	942	942	941	941	941	941	940	940	940	939	939	938	937	937	936	936	936	936	937	937	937	938	938	938	936	942	939
Apr 26	938	938	938	938	938	939	939	939	939	939	939	938	938	938	938	937	938	938	938	939	939	939	939	938	937	939	938
Apr 27	938	937	937	937	937	937	936	936	935	935	935	934	934	935	935	935	935	935	935	936	936	936	935	936	934	938	936
Apr 28	936	935	935	935	935	935	935	936	935	936	936	936	936	937	937	937	938	938	938	939	939	939	940	940	935	940	937
Apr 29	941	941	942	942	943	943	944	945	945	946	947	947	948	948	948	949	949	949	950	950	950	950	951	951	941	951	947
Apr 30	951	951	951	951	951	951	951	951	951	952	952	951	951	951	950	950	950	950	950	950	950	950	950	950	950	952	951
Diurnal Maximum	961	961	961	961	961	961	961	961	960	961	961	960	961	960	960	960	960	959	959	959	960	960	961	961			
Diurnal Average	942	942	942	942	942	942	943	943	943	943	943	942	942	942	942	942	942	942	942	942	942	942	942	942			

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

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

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



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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - April 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

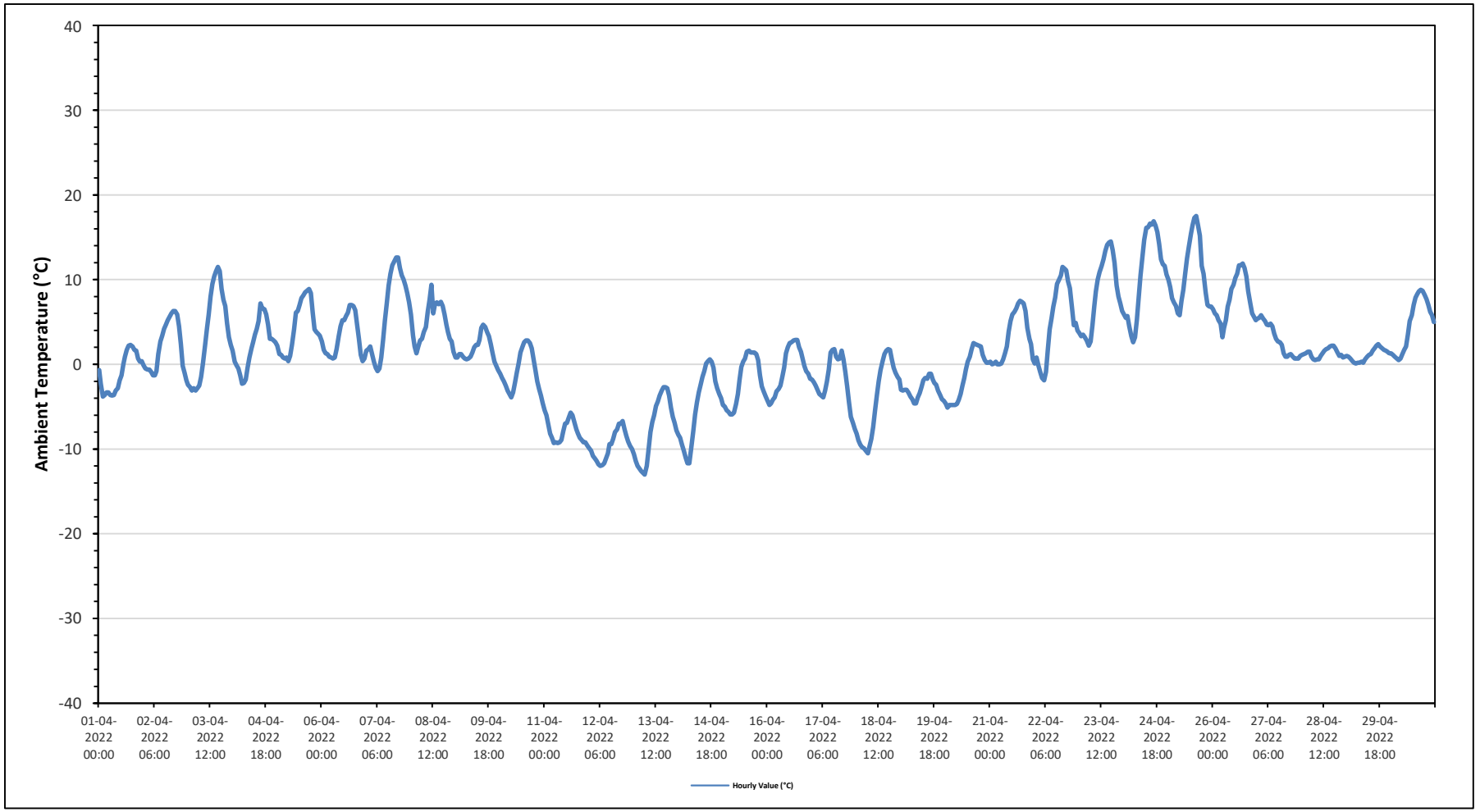
Maximum Hourly Value:	17.5	°C	on April 25 at hour 15	Hours in Service:	720
Maximum Daily Value:	10.7	°C	on April 24	Hours of Data:	720
Minimum Hourly Value:	-13.0	°C	on April 13 at hour 6	Hours of Missing Data:	0
Minimum Daily Value:	-9.6	°C	on April 12	Hours of Calibration:	0
Monthly Average:	1.3	°C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	-0.7	-2.3	-3.8	-3.6	-3.3	-3.3	-3.6	-3.7	-3.6	-3.1	-2.8	-1.9	-1.3	0	0.9	1.7	2.2	2.3	2.1	1.7	1.6	0.7	0.3	0.4	-3.8	2.3	-1.0
Apr 2	-0.1	-0.5	-0.6	-0.6	-0.9	-1.3	-1.3	-0.8	1.2	2.7	3.4	4.2	4.7	5.2	5.6	6	6.3	6.3	5.9	4.5	2.4	-0.2	-1	-1.9	-1.9	6.3	2.1
Apr 3	-2.4	-2.7	-3.1	-2.8	-3.1	-2.8	-2.5	-1.5	0.1	2.2	4.1	5.9	8	9.5	10.4	11	11.5	11	8.9	7.6	6.9	4.8	3.2	2.3	-3.1	11.5	3.6
Apr 4	1.6	0.3	-0.1	-0.5	-1.3	-2.3	-2.2	-1.8	-0.4	0.8	1.9	2.6	3.5	4.2	5.1	7.2	6.6	6.5	5.9	4.7	3	3	2.8	2.6	-2.3	7.2	2.2
Apr 5	2.2	1.2	1.1	0.8	0.7	0.8	0.4	1	2.3	4.1	6.1	6.3	7	7.8	8.1	8.5	8.7	8.9	8.4	6.1	4.1	3.8	3.6	3.4	0.4	8.9	4.4
Apr 6	2.7	1.7	1.3	1.2	0.9	0.8	0.7	0.8	1.8	3.3	4.5	5.2	5.2	5.7	6.1	7	7	6.9	6.4	4.7	3	1.1	0.4	0.7	0.4	7.0	3.3
Apr 7	1.6	1.8	2.1	1.2	0.3	-0.4	-0.8	-0.5	0.8	2.9	5.2	7.2	9.3	10.7	11.7	12.1	12.6	12.6	11.4	10.5	10	9.3	8.4	7.3	-0.8	12.6	6.1
Apr 8	5.9	3.4	2.1	1.3	2.1	2.8	3	3.8	4.4	6.2	7.6	9.4	6	7.2	7.3	7.1	7.4	6.9	5.9	4.7	3.8	3	2.7	1.5	1.3	9.4	4.8
Apr 9	0.8	0.8	1.2	1.2	0.9	0.7	0.6	0.7	0.9	1.4	2	2.3	2.3	2.9	4.3	4.7	4.4	3.8	3.3	2.4	1.3	0.3	-0.2	-0.7	-0.7	4.7	1.8
Apr 10	-1.1	-1.6	-2	-2.5	-3.1	-3.5	-3.9	-3.3	-2.2	-1	0.1	1.4	2	2.6	2.8	2.8	2.5	1.9	0.6	-0.7	-2	-2.9	-3.7	-4.6	-4.6	2.8	-0.9
Apr 11	-5.4	-6	-7.1	-8.2	-8.7	-9.3	-9.2	-9.3	-9.2	-8.9	-7.9	-7	-6.9	-6.3	-5.7	-6	-6.9	-7.7	-8.2	-8.7	-8.9	-9.2	-9.2	-9.6	-9.6	-5.4	-7.9
Apr 12	-9.9	-10.2	-10.8	-11.1	-11.4	-11.8	-12	-11.9	-11.7	-11.1	-10.5	-9.4	-9.4	-8.8	-8	-7.7	-7	-7	-6.7	-7.6	-8.4	-9.1	-9.6	-10	-12.0	-6.7	-9.6
Apr 13	-10.6	-11.4	-12	-12.3	-12.6	-12.8	**-13**	-12	-10	-8	-6.8	-6	-4.9	-4.4	-3.7	-3.1	-2.7	-2.7	-2.8	-3.7	-5.1	-6.2	-6.9	-7.8	**-13.0**	-2.7	-7.6
Apr 14	-8.3	-8.7	-9.5	-10.2	-11	-11.7	-11.7	-9.7	-7.9	-5.9	-4.5	-3.3	-2.4	-1.5	-0.8	0.1	0.4	0.6	0.3	-0.4	-2	-2.8	-3.5	-4	-11.7	0.6	-4.9
Apr 15	-4.8	-5	-5.4	-5.6	-5.9	-5.9	-5.7	-4.7	-3.5	-1.9	-0.3	0.3	0.7	1.5	1.6	1.4	1.4	1.4	1.2	0.5	-1.3	-2.6	-3.2	-3.8	-5.9	1.6	-2.1
Apr 16	-4.3	-4.8	-4.6	-4.2	-3.9	-3.2	-2.9	-2.5	-1.5	-0.4	1.3	2	2.5	2.6	2.8	2.9	2.9	2	1.5	0.6	-0.2	-0.8	-1.1	-1.7	-4.8	2.9	-0.6
Apr 17	-1.8	-2.1	-2.5	-3	-3.5	-3.7	-3.9	-3.1	-2	-0.6	1.4	1.7	1.8	0.9	0.6	0.7	1.6	0.6	-0.9	-2.6	-4.5	-6.2	-6.9	-7.6	-7.6	1.8	-1.9
Apr 18	-8.2	-9	-9.5	-9.8	-9.9	-10.2	-10.5	-9.7	-8.8	-7.4	-5.5	-3.7	-2	-0.7	0.4	1.2	1.6	1.8	1.7	0.6	-0.4	-1	-1.5	-1.8	-10.5	1.8	-4.3
Apr 19	-3	-3.1	-3	-3	-3.3	-3.8	-4.1	-4.6	-4.6	-3.9	-3.4	-2.7	-1.9	-1.6	-1.7	-1.1	-1.1	-1.8	-2.2	-2.4	-3.1	-3.6	-4.1	-4.3	-4.6	-1.1	-3.0
Apr 20	-4.6	-5.1	-4.8	-4.8	-4.8	-4.8	-4.7	-4.2	-3.5	-2.5	-1.6	-0.6	0.3	0.9	1.8	2.5	2.4	2.3	2.2	2.1	1.1	0.5	0.2	0.2	-5.1	2.5	-1.2
Apr 21	0.3	0	0.1	0.3	0	0	0.1	0.6	1.3	2.1	3.9	5.1	5.9	6.2	6.6	7.2	7.5	7.4	7.2	6.3	4.3	3	2.4	0.6	0.0	7.5	3.3
Apr 22	0.1	0.8	-0.1	-0.9	-1.6	-1.9	-0.9	1.7	4.1	5.4	6.8	7.9	9.5	10	10.5	11.5	11.3	11.1	9.8	9	6.7	4.6	4.9	4	-1.9	11.5	5.2
Apr 23	3.7	3.3	3.5	3.2	2.8	2.2	2.7	4.6	6.9	8.6	10	10.9	11.6	12.4	13.4	14.1	14.4	14.5	13.5	12	9.3	8	7.2	6.3	2.2	14.5	8.3
Apr 24	5.9	5.5	5.7	4.5	3.3	2.6	3.2	5.2	7.9	10.5	12.6	14.7	16.1	16.2	16.6	16.5	16.9	16.4	15.6	14.2	12.4	11.8	11.6	10.6	2.6	16.9	**10.7**
Apr 25	10	9.1	7.8	7.3	6.9	6	5.8	7.5	8.8	10.7	12.5	13.9	15.4	16.4	17.3	**17.5**	16.4	15.2	11.6	10.7	8.5	7	6.8	6.8	5.8	**17.5**	10.7
Apr 26	6.5	6	5.8	5.2	4.8	3.2	4.3	5.2	6.8	7.6	8.9	9.4	10.2	10.7	11.7	11.7	11.9	11.4	10.4	8.6	7.2	6	5.6	5.2	3.2	11.9	7.7
Apr 27	5.4	5.5	5.8	5.4	5.1	4.7	4.6	4.8	4.5	3.6	3	2.7	2.6	2.3	1.3	0.9	0.9	1.1	1.2	0.9	0.7	0.7	0.7	1	0.7	5.8	2.9
Apr 28	1.1	1.2	1.3	1.5	1.5	0.9	0.6	0.5	0.6	0.6	1	1.3	1.6	1.8	1.9	2.1	2.2	2.2	1.9	1.4	1	1.1	0.8	0.9	0.5	2.2	1.3
Apr 29	1	0.9	0.7	0.4	0.2	0.1	0.2	0.2	0.3	0.2	0.6	0.9	1.1	1.2	1.6	1.9	2.2	2.4	2.1	1.9	1.7	1.6	1.5	1.3	0.1	2.4	1.1
Apr 30	1.3	1.1	0.9	0.7	0.5	0.7	1.2	1.7	2.1	3.5	5.1	5.8	7	7.9	8.3	8.6	8.8	8.7	8.2	7.7	7	6.2	5.8	5	0.5	8.8	4.7
Diurnal Maximum	10.0	9.1	7.8	7.3	6.9	6.0	5.8	7.5	8.8	10.7	12.6	14.7	16.1	16.4	17.3	17.5	16.9	16.4	15.6	14.2	12.4	11.8	11.6	10.6			
Diurnal Average	-0.5	-1.0	-1.3	-1.6	-1.9	-2.2	-2.2	-1.5	-0.5	0.7	2.0	2.9	3.5	4.1	4.6	5.0	5.1	4.9	4.2	3.2	2.0	1.1	0.6	0.1			

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

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

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



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - April 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

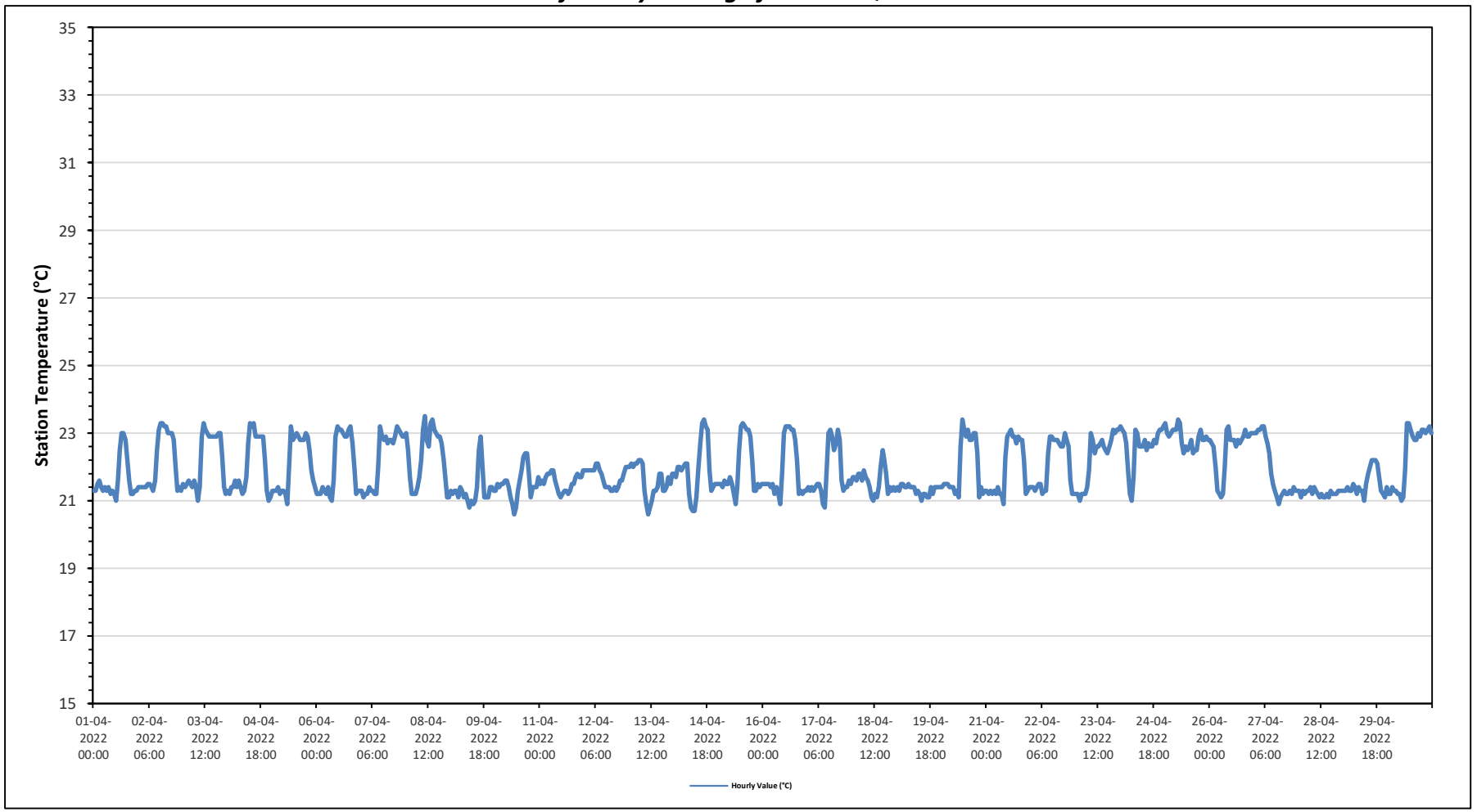
Maximum Hourly Value:	23.5	°C	on April 8 at hour 10	Hours in Service:	720
Maximum Daily Value:	22.9	°C	on April 25	Hours of Data:	720
Minimum Hourly Value:	20.6	°C	on April 10 at hour 10	Hours of Missing Data:	0
Minimum Daily Value:	21.2	°C	on April 28	Hours of Calibration:	0
Monthly Average:	21.9	°C		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Apr 1	21.3	21.3	21.5	21.6	21.4	21.3	21.4	21.3	21.4	21.2	21.3	21.2	21.0	21.6	22.5	23.0	23.0	22.8	22.2	21.6	21.2	21.2	21.3	21.3	21.0	23.0	21.6
Apr 2	21.4	21.4	21.4	21.4	21.4	21.5	21.5	21.4	21.3	21.6	22.5	23.1	23.3	23.3	23.2	23.2	23.0	23.0	23.0	22.8	22.0	21.3	21.4	21.3	21.3	23.3	22.1
Apr 3	21.5	21.4	21.5	21.6	21.5	21.4	21.6	21.4	21.0	21.4	22.9	23.3	23.1	23.0	22.9	22.9	22.9	22.9	22.9	23.0	23.0	22.3	21.4	21.2	21.0	23.3	22.2
Apr 4	21.3	21.2	21.4	21.4	21.6	21.4	21.6	21.4	21.2	21.3	21.7	22.7	23.3	23.2	23.3	22.9	22.9	22.9	22.9	22.9	22.2	21.3	21.0	21.1	21.0	23.3	22.0
Apr 5	21.3	21.3	21.3	21.4	21.2	21.3	21.3	21.2	20.9	22.0	23.2	22.8	22.9	23.0	22.9	22.8	22.8	22.8	23.0	22.9	22.5	21.9	21.6	21.4	20.9	23.2	22.1
Apr 6	21.2	21.2	21.2	21.4	21.3	21.2	21.4	21.1	21.0	21.6	22.9	23.2	23.1	23.1	23.0	22.9	22.9	23.1	23.2	22.7	22.0	21.2	21.3	21.3	21.0	23.2	22.0
Apr 7	21.3	21.1	21.2	21.2	21.4	21.3	21.3	21.2	21.2	22.0	23.2	22.9	22.8	22.9	22.7	22.8	22.8	22.7	22.9	23.2	23.1	23.0	22.9	22.9	21.1	23.2	22.3
Apr 8	23.0	22.5	21.7	21.2	21.2	21.2	21.4	21.7	22.2	23.1	**23.5**	22.8	22.6	23.3	23.4	23.1	23.0	22.9	22.9	22.7	22.2	21.7	21.1	21.1	21.1	**23.5**	22.3
Apr 9	21.3	21.2	21.3	21.3	21.1	21.4	21.3	21.1	21.2	21.0	20.8	21.0	20.9	21.0	21.4	22.5	22.9	22.0	21.1	21.1	21.1	21.4	21.4	21.3	20.8	22.9	21.3
Apr 10	21.3	21.5	21.4	21.5	21.5	21.6	21.6	21.4	21.1	20.9	**20.6**	20.8	21.3	21.6	21.9	22.3	22.4	22.4	21.8	21.1	21.4	21.4	21.4	21.7	**20.6**	22.4	21.5
Apr 11	21.5	21.6	21.5	21.7	21.8	21.8	21.9	21.9	21.6	21.4	21.2	21.1	21.2	21.3	21.3	21.2	21.3	21.5	21.5	21.7	21.8	21.7	21.7	21.9	21.1	21.9	21.5
Apr 12	21.9	21.9	21.9	21.9	21.9	21.9	22.1	22.1	21.9	21.8	21.6	21.4	21.4	21.4	21.3	21.3	21.4	21.3	21.4	21.6	21.6	21.8	22.0	22.0	21.3	22.1	21.7
Apr 13	22.0	22.1	22.0	22.1	22.1	22.2	22.2	22.1	21.3	20.9	**20.6**	20.8	21.0	21.3	21.3	21.4	21.8	21.8	21.3	21.3	21.4	21.7	21.5	21.8	**20.6**	22.2	21.6
Apr 14	21.8	21.7	22.0	22.0	21.9	22.0	22.1	22.1	21.2	20.8	20.7	20.7	21.1	21.9	22.7	23.3	23.4	23.2	23.1	21.9	21.3	21.4	21.5	21.5	20.7	23.4	21.9
Apr 15	21.5	21.5	21.4	21.6	21.5	21.5	21.7	21.5	21.2	20.9	21.4	22.5	23.2	23.3	23.2	23.1	23.1	22.9	22.2	21.3	21.3	21.5	21.4	21.5	20.9	23.3	21.9
Apr 16	21.5	21.5	21.5	21.5	21.4	21.5	21.2	21.4	21.2	20.9	21.8	23.0	23.2	23.2	23.2	23.1	23.1	22.8	22.2	21.2	21.3	21.2	21.3	21.3	20.9	23.2	21.9
Apr 17	21.4	21.3	21.4	21.3	21.4	21.5	21.5	21.3	20.9	20.8	21.9	23.0	23.1	22.9	22.5	22.7	23.1	22.8	21.6	21.3	21.4	21.4	21.6	21.5	20.8	23.1	21.8
Apr 18	21.7	21.7	21.6	21.8	21.8	21.6	21.9	21.7	21.6	21.4	21.1	21.0	21.2	21.1	21.4	22.0	22.5	22.2	21.8	21.2	21.4	21.3	21.4	21.3	21.0	22.5	21.6
Apr 19	21.4	21.3	21.5	21.5	21.4	21.4	21.5	21.4	21.4	21.4	21.2	21.3	21.2	21.0	21.2	21.2	21.1	21.1	21.4	21.2	21.4	21.4	21.4	21.4	21.0	21.5	21.3
Apr 20	21.4	21.5	21.5	21.5	21.4	21.4	21.4	21.2	21.3	21.1	22.6	23.4	23.1	22.9	23.1	22.8	22.8	23.0	23.0	22.4	21.1	21.4	21.2	21.3	21.1	23.4	22.0
Apr 21	21.3	21.2	21.3	21.2	21.3	21.2	21.4	21.2	21.2	20.9	22.3	22.9	23.0	23.1	22.9	22.9	22.7	22.9	22.8	22.8	22.2	21.2	21.3	21.4	20.9	23.1	21.9
Apr 22	21.4	21.4	21.3	21.4	21.5	21.5	21.2	21.3	21.3	22.4	22.9	22.9	22.8	22.8	22.8	22.7	22.6	22.6	23.0	22.8	22.6	21.6	21.2	21.2	21.2	23.0	22.1
Apr 23	21.2	21.2	21.0	21.2	21.2	21.2	21.4	21.9	23.0	22.8	22.4	22.6	22.6	22.7	22.8	22.6	22.5	22.4	22.6	22.8	23.1	23.0	23.1	23.1	21.0	23.1	22.3
Apr 24	23.2	23.1	23.0	22.7	21.9	21.2	21.0	21.7	23.1	23.0	22.6	22.6	22.6	22.8	22.5	22.7	22.6	22.6	22.8	22.7	23.0	23.1	23.1	23.2	21.0	23.2	22.6
Apr 25	23.3	23.0	22.9	23.0	23.1	23.1	23.1	23.4	23.3	22.7	22.4	22.6	22.5	22.6	22.8	22.4	22.5	22.5	22.9	23.1	22.8	22.8	22.9	22.8	22.4	23.4	**22.9**
Apr 26	22.8	22.7	22.6	22.0	21.3	21.2	21.1	21.2	22.0	23.1	23.2	22.8	22.8	22.8	22.6	22.8	22.7	22.8	22.9	23.1	22.9	22.9	23.0	23.0	21.1	23.2	22.5
Apr 27	23.0	23.0	23.1	23.1	23.2	23.2	22.9	22.7	22.4	21.8	21.5	21.3	21.1	20.9	21.1	21.2	21.3	21.2	21.2	21.3	21.2	21.4	21.3	21.3	20.9	23.2	21.9
Apr 28	21.3	21.1	21.3	21.2	21.3	21.3	21.4	21.2	21.4	21.3	21.2	21.1	21.2	21.1	21.1	21.2	21.1	21.3	21.2	21.2	21.2	21.3	21.3	21.3	21.1	21.4	21.2
Apr 29	21.3	21.3	21.4	21.3	21.3	21.5	21.4	21.2	21.4	21.3	21.3	21.0	21.5	21.8	22.0	22.2	22.2	22.2	22.1	21.7	21.3	21.2	21.1	21.4	21.0	22.2	21.5
Apr 30	21.2	21.2	21.4	21.3	21.3	21.2	21.2	21.0	21.1	21.9	23.3	23.3	23.1	22.9	22.8	22.8	23.0	22.9	23.1	23.1	23.0	23.1	23.2	23.0	21.0	23.3	22.3
Diurnal Maximum	23.3	23.1	23.1	23.1	23.2	23.2	23.1	23.4	23.3	23.1	23.5	23.4	23.3	23.3	23.4	23.3	23.4	23.2	23.2	23.2	23.1	23.1	23.2	23.2			
Diurnal Average	21.7	21.6	21.7	21.6	21.6	21.6	21.6	21.6	21.5	21.6	22.0	22.2	22.2	22.3	22.4	22.5	22.5	22.5	22.3	22.1	21.9	21.8	21.7	21.7			

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

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

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



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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - April 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

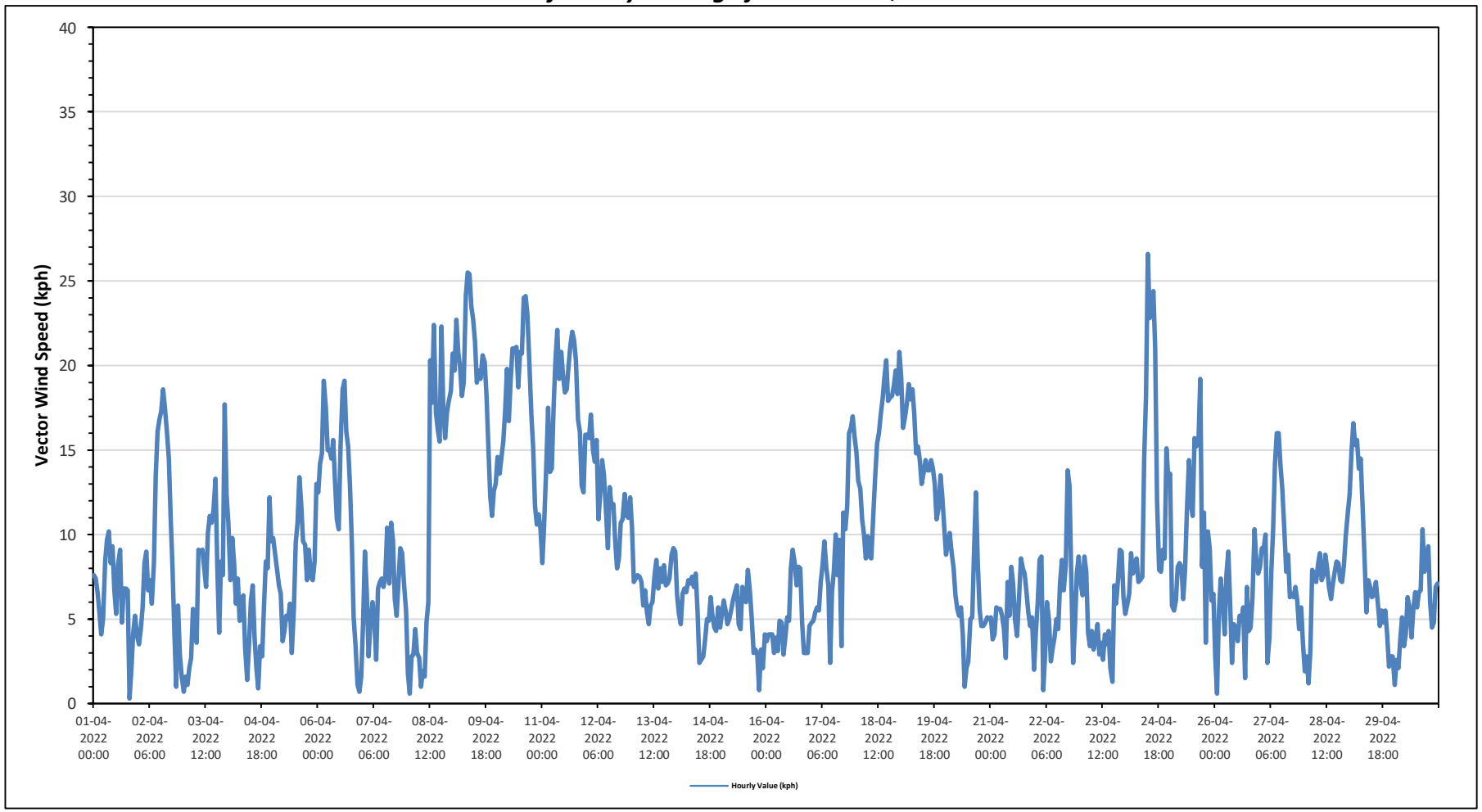
Maximum Hourly Value:	26.6	kph	on April 24 at hour 12	Hours in Service:	720
Maximum Daily Value:	19.4	kph	on April 9	Hours of Data:	720
Minimum Hourly Value:	0.3	kph	on April 1 at hour 19	Hours of Missing Data:	0
Minimum Daily Value:	4.9	kph	on April 15	Hours of Calibration:	0
Monthly Average:	9.2	kph		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
Apr 1	7.6	7.4	6.6	5.4	4.1	5.0	8.4	9.7	10.2	8.3	9.3	6.7	5.3	8.2	9.1	4.8	6.8	6.8	6.7	**0.3**	2.0	4.2	5.2	4.0	**0.3**	10.2	6.3
Apr 2	3.5	4.4	5.7	8.3	9.0	6.7	7.3	5.9	8.3	13.5	16.1	16.8	17.3	18.6	17.5	16.2	14.5	11.0	8.0	4.3	1.0	5.8	2.9	1.6	1.0	18.6	9.3
Apr 3	0.7	1.6	1.1	2.1	2.7	5.6	4.9	3.6	9.1	9.0	9.1	8.0	6.9	10.1	11.1	10.7	11.4	13.3	8.0	4.2	8.4	7.6	17.7	12.4	0.7	17.7	7.5
Apr 4	10.7	7.3	9.8	8.3	5.9	7.4	4.9	5.0	6.4	3.3	1.4	3.5	6.1	7.0	3.9	2.1	0.9	3.4	2.8	5.8	8.4	8.0	12.2	9.6	0.9	12.2	6.0
Apr 5	9.8	8.9	7.9	7.0	6.5	3.7	4.3	5.2	5.0	5.9	3.0	5.6	9.5	10.7	13.4	11.8	9.6	9.4	7.3	9.1	7.5	7.3	8.4	13.0	3.0	13.4	7.9
Apr 6	12.5	14.2	14.8	19.1	17.5	15.0	15.0	14.5	15.6	13.1	10.9	10.3	15.2	18.6	19.1	16.1	15.2	12.9	9.6	5.1	3.5	1.1	0.7	1.6	0.7	19.1	12.1
Apr 7	4.8	9.0	6.6	2.8	4.8	6.0	4.9	2.6	6.8	7.2	7.4	6.9	7.6	10.4	7.1	10.7	9.7	6.2	5.2	7.2	9.2	8.9	6.9	5.5	2.6	10.7	6.8
Apr 8	1.8	0.6	2.8	2.9	4.4	3.0	2.7	1.0	1.9	1.6	4.8	6.0	20.3	17.8	22.4	17.2	16.2	15.5	22.3	17.5	15.7	17.2	17.9	18.5	0.6	22.4	10.5
Apr 9	20.7	19.7	22.7	20.8	19.9	18.2	19.0	24.1	25.5	25.4	23.5	22.7	21.4	19.0	19.7	19.2	20.6	20.2	18.2	15.2	12.3	11.1	12.6	13.0	11.1	25.5	**19.4**
Apr 10	14.6	13.6	14.6	15.5	17.3	19.8	16.7	19.1	21.0	21.0	21.1	18.7	20.8	20.7	24.0	24.1	23.0	20.3	17.1	15.1	11.7	10.6	11.2	10.3	10.3	24.1	17.6
Apr 11	8.3	10.7	14.1	17.5	13.7	13.9	17.6	20.3	22.1	19.2	20.8	19.4	18.4	18.6	20.0	21.2	22.0	21.5	20.3	16.8	16.1	12.9	12.5	15.9	8.3	22.1	17.2
Apr 12	15.9	15.7	17.1	15.0	14.3	15.6	10.9	12.5	14.4	13.5	11.6	9.2	12.8	11.6	11.8	9.6	8.0	8.6	10.7	10.9	12.4	11.1	11.0	12.2	8.0	17.1	12.4
Apr 13	10.4	7.2	7.4	7.6	7.5	7.2	5.8	6.7	5.4	4.7	5.8	6.0	7.6	8.5	6.8	8.0	7.2	8.2	7.0	7.1	7.4	8.8	9.2	9.0	4.7	10.4	7.4
Apr 14	6.4	5.3	4.7	6.5	6.8	6.6	7.3	7.1	7.5	6.9	7.7	5.5	2.4	2.6	2.8	3.8	5.0	4.9	6.3	5.2	4.5	4.3	5.7	4.5	2.4	7.7	5.4
Apr 15	5.3	6.1	5.5	4.7	5.0	5.5	6.1	6.6	7.0	4.7	4.4	6.9	6.1	6.0	7.9	6.6	5.0	3.0	3.2	2.9	0.8	3.2	2.1	4.1	0.8	7.9	**4.9**
Apr 16	3.7	4.1	4.1	4.1	3.0	3.9	3.1	4.9	4.8	2.9	3.9	5.1	4.9	8.0	9.1	8.4	7.0	8.1	8.0	4.8	3.0	3.0	3.0	4.6	2.9	9.1	5.0
Apr 17	4.8	4.9	5.4	5.7	5.5	7.2	8.2	9.6	8.1	7.0	2.4	6.6	7.8	10.0	7.6	9.7	3.4	11.3	10.3	11.7	16.0	16.3	17.0	15.8	2.4	17.0	8.8
Apr 18	14.9	13.2	12.7	10.9	10.0	8.6	9.9	8.7	8.6	11.0	13.2	15.4	16.0	17.1	18.0	19.3	20.3	17.9	18.1	18.2	18.8	19.7	18.3	20.8	8.6	20.8	15.0
Apr 19	19.3	16.3	16.9	17.8	18.9	18.0	18.6	17.1	14.8	15.2	14.4	13.0	13.7	14.4	13.8	13.8	14.4	13.9	13.0	10.9	11.6	13.5	12.2	10.5	10.5	19.3	14.8
Apr 20	8.8	9.5	10.1	9.0	8.0	6.4	5.6	5.2	5.7	4.1	1.0	2.1	2.5	5.0	5.1	9.0	12.5	8.4	5.6	4.6	4.6	4.8	5.1	5.0	1.0	12.5	6.2
Apr 21	5.1	3.8	4.1	5.7	5.6	5.6	5.2	4.4	2.7	7.2	5.2	8.1	7.1	5.0	4.0	6.4	8.6	8.0	7.7	6.6	5.4	4.6	5.1	2.0	2.0	8.6	5.6
Apr 22	4.3	6.0	8.5	8.7	0.8	2.9	6.0	4.9	2.5	3.3	3.9	5.0	4.4	7.1	8.5	6.7	8.2	13.8	12.9	7.4	2.4	4.6	7.7	8.7	0.8	13.8	6.2
Apr 23	7.1	6.4	8.7	7.8	4.2	3.4	4.3	3.2	3.9	4.7	2.9	3.6	2.6	4.1	3.5	4.3	2.1	1.3	7.0	5.9	7.3	9.1	9.0	6.3	1.3	9.1	5.1
Apr 24	5.3	5.9	6.5	8.9	7.7	8.2	8.6	7.2	7.3	7.5	14.5	18.2	**26.6**	22.8	23.4	24.4	21.0	12.1	7.9	7.8	9.1	8.6	15.1	13.3	5.3	**26.6**	12.4
Apr 25	13.6	5.8	5.5	6.1	8.1	8.3	8.1	6.2	7.9	11.4	14.4	11.8	11.1	15.7	15.2	15.4	19.2	8.1	11.3	3.6	10.2	9.2	6.1	6.5	3.6	19.2	10.0
Apr 26	2.8	0.6	5.4	7.4	5.9	4.1	7.7	9.0	5.9	2.4	4.7	4.5	3.7	5.2	4.9	5.7	1.5	6.9	4.3	4.5	6.2	10.3	8.4	7.7	0.6	10.3	5.4
Apr 27	8.1	9.2	9.2	10.0	2.4	3.9	7.8	10.3	14.2	16.0	16.0	14.1	12.7	10.2	7.8	8.8	6.3	6.5	6.3	6.9	6.1	4.4	5.7	3.5	2.4	16.0	8.6
Apr 28	1.9	2.8	1.2	3.1	7.9	7.7	7.2	8.2	8.9	7.3	7.6	8.8	8.0	6.9	6.2	7.1	7.8	8.4	8.3	7.3	7.2	8.2	9.9	11.3	1.2	11.3	7.1
Apr 29	12.4	14.9	16.6	15.3	15.6	13.9	14.5	11.4	8.5	5.4	7.3	6.9	6.3	6.4	7.2	6.0	4.6	5.5	4.8	5.5	4.1	2.2	2.8	2.8	2.2	16.6	8.4
Apr 30	1.1	2.6	2.1	3.8	5.1	3.4	4.1	6.3	5.7	3.9	5.6	6.6	5.7	6.6	6.7	10.3	7.8	8.3	9.3	6.0	4.5	4.8	6.9	7.1	1.1	10.3	5.6
Diurnal Maximum	21	20	23	21	20	20	19	24	26	25	24	23	27	23	24	24	23	22	22	18	19	20	18	21			
Diurnal Average	8.2	7.9	8.6	8.9	8.3	8.2	8.5	8.7	9.2	8.9	9.1	9.4	10.4	11.1	11.3	11.2	10.7	10.1	9.6	7.9	7.9	8.2	9.0	8.7			

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

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

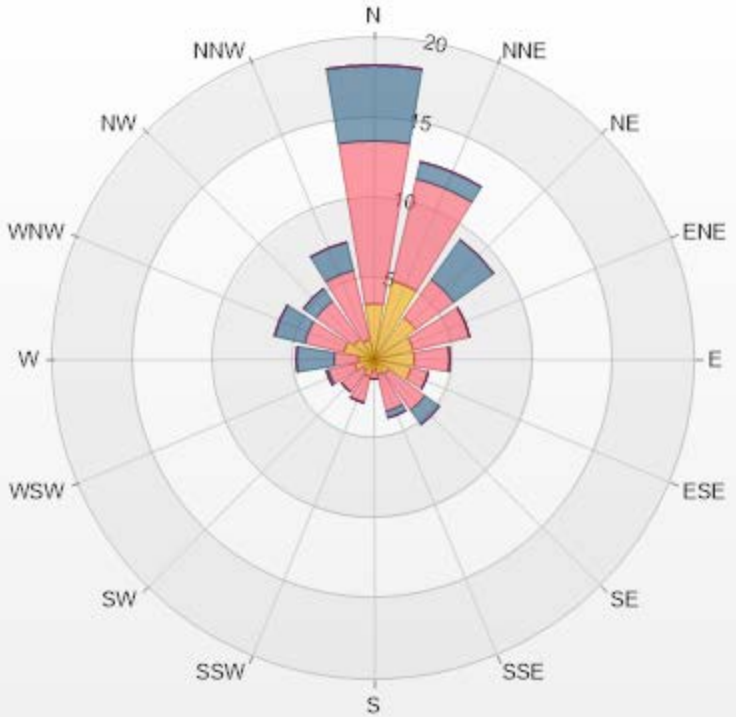
Timeseries Chart of Hourly Average for VWS - AQHI - Grimshaw Station



Wind: AQHI Grimshaw Monitor: WDS [KPH] Monthly: 04-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 3.06% 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	3.47	10.14	4.72	0	0	18.33
NNE	5	6.53	1.11	0	0	12.64
NE	3.19	2.92	3.06	0	0	9.17
ENE	2.5	3.61	0	0	0	6.11
E	2.5	2.22	0	0	0	4.72
ESE	2.36	1.11	0	0	0	3.47
SE	1.11	2.78	1.11	0	0	5
SSE	0.97	2.36	0.42	0	0	3.75
S	0.69	0.56	0	0	0	1.25
SSW	1.11	1.67	0	0	0	2.78
SW	0.83	1.67	0	0	0	2.5
WSW	1.25	1.67	0.14	0	0	3.06
W	0.97	1.53	2.36	0	0	4.86
WNW	1.94	2.5	1.94	0	0	6.38
NW	1.53	2.92	0.97	0	0	5.42
NNW	1.25	4.44	1.81	0	0	7.5
Summary	30.67	48.63	17.64	0	0	96.94

AQHI Grimshaw 01-04-2022 00:00 - 30-04-2022 23:00 Calm: 3.06% Calm Wind Avg Speed: 1.07(KPH)



% Icon Classes (KPH)	31 1.8-6.0	49 6.0-15.0	18 15.0-29.0	0 29.0-39.0	0 >39.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - April 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

Monthly Average: 13 (NNE) degree

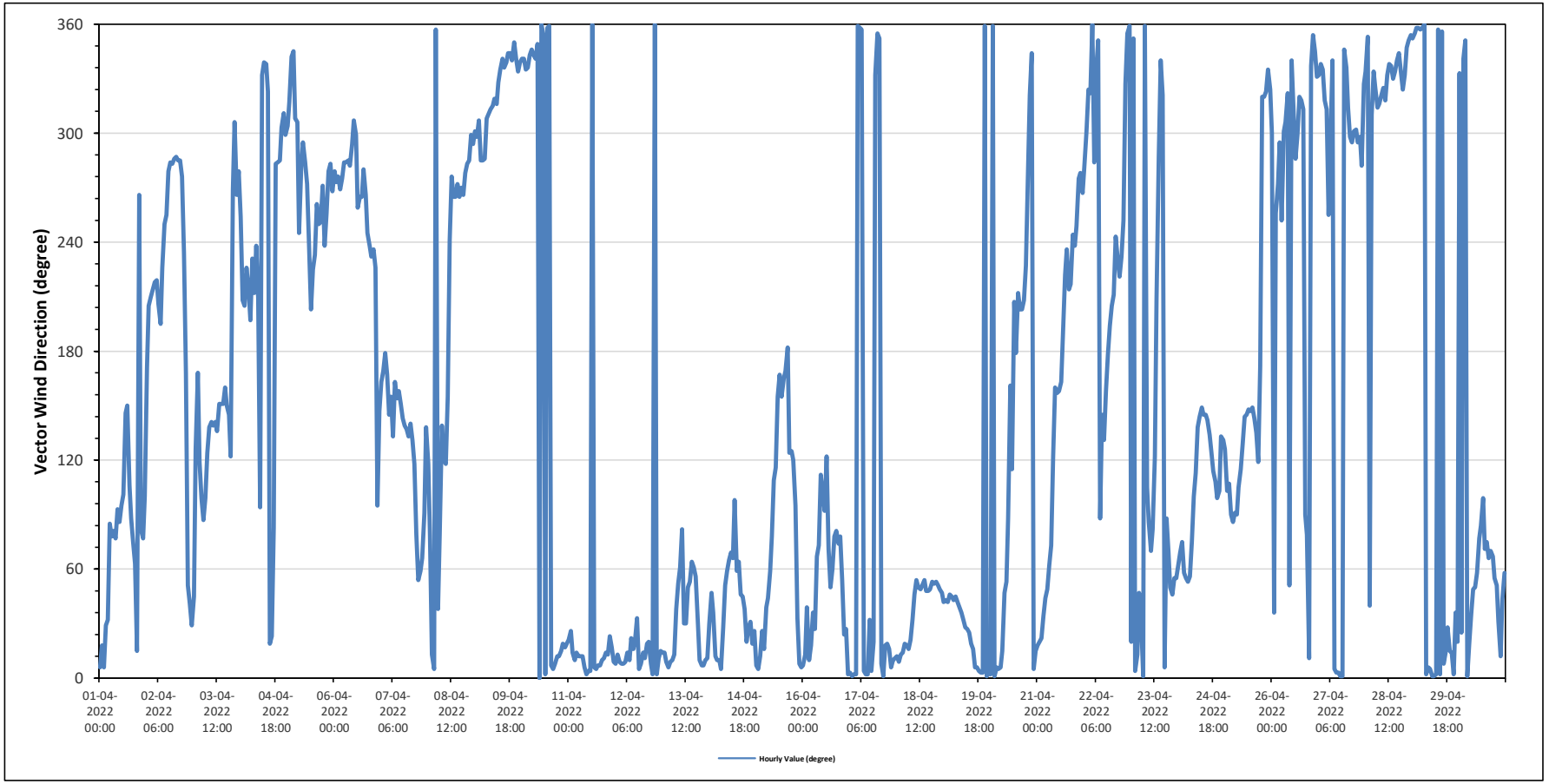
Hours in Service:	720
Hours of Data:	720
Hours of Missing Data:	0
Hours of Calibration:	0
Operational Uptime:	100.0

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
Apr 1	N	NNE	N	NNE	NNE	E	ENE	E	ENE	E	E	E	E	SE	SSE	ESE	E	ENE	ENE	NNE	W	E	ENE	E	73	ENE
Apr 2	S	SSW	SSW	SSW	SW	SW	SSW	SSW	SW	WSW	WSW	W	WNW	W	WNW	WNW	WNW	WNW	W	SW	SSE	NE	NE	NNE	245	WSW
Apr 3	NE	SE	SSE	ESE	E	E	E	ESE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SE	ESE	W	NW	W	W	139	SE
Apr 4	WSW	SSW	SSW	SW	SSW	SSW	SW	SSW	SW	SSW	E	NNW	NNW	NNW	NW	NNE	NNE	E	W	WNW	WNW	WNW	NW	WNW	272	W
Apr 5	WNW	NW	NNW	NNW	NW	NW	WSW	W	WNW	WNW	W	SW	SSW	SW	SW	W	WSW	WSW	W	SW	WSW	W	W	W	273	W
Apr 6	W	W	W	W	W	WNW	WNW	WNW	W	WNW	NW	WNW	WSW	W	W	W	W	WSW	SW	SW	SW	SW	E	SE	266	W
Apr 7	SSE	SSE	S	SSE	SE	SSE	SE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SE	ESE	ENE	NE	ENE	ENE	E	SE	134	SE
Apr 8	ESE	ENE	NNE	N	N	NE	ENE	SE	ESE	ESE	SSE	WSW	W	W	W	W	W	W	W	W	W	WNW	WNW	WNW	287	WNW
Apr 9	WNW	WNW	NW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	322	NW
Apr 10	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	358	N
Apr 11	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	N	11	NNE
Apr 12	N	NNE	N	N	N	N	NNE	N	NNE	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	N	N	N	N	NNE	NNE	12	NNE
Apr 13	NNE	NNE	N	N	N	N	NNE	NE	NE	ENE	E	NNE	NNE	NE	NE	ENE	ENE	NE	NNE	N	N	N	N	NNE	30	NNE
Apr 14	NNE	NE	NE	NNE	N	N	N	NNE	NE	ENE	ENE	ENE	ENE	E	ENE	ENE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	40	NE
Apr 15	N	N	NNE	NNE	NNE	NE	NE	ENE	ENE	ESE	ESE	SSE	SSE	SSE	SSE	SSE	S	ESE	SE	ESE	E	NNE	N	N	82	E
Apr 16	N	NNE	NE	N	NNE	NE	NNE	ENE	ENE	ESE	E	E	ESE	ENE	NE	ENE	ENE	E	ENE	ENE	NE	NNE	NNE	N	55	NE
Apr 17	N	N	N	N	N	N	N	N	N	N	NNE	N	NNE	NNW	N	N	N	N	NNE	NNE	NNE	N	N	NNE	5	N
Apr 18	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	38	NE
Apr 19	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	N	25	NNE
Apr 20	N	N	N	N	N	N	NNE	NE	NE	E	SSE	ESE	SSW	S	SSW	SSW	SSW	SSW	SW	W	NW	NNW	N	NNE	358	N
Apr 21	NNE	NNE	NNE	NE	NE	NE	ENE	ENE	ESE	SSE	SSE	SSE	SSE	S	SW	SW	SSW	SW	WSW	SW	WSW	W	W	W	201	SSW
Apr 22	W	WNW	NW	NW	N	WNW	NNW	N	E	SE	SE	SSE	S	SSW	SSW	SSW	WSW	SW	SW	SW	WSW	NW	N	N	266	W
Apr 23	NNE	N	N	NNE	NE	NNE	N	N	ESE	E	ENE	E	ESE	SSW	WNW	NNW	NW	N	E	ENE	NE	NE	NE	NE	37	NE
Apr 24	ENE	ENE	ENE	ENE	NE	NE	NE	ENE	E	ESE	SE	SE	SSE	SE	SE	SE	SE	SE	ESE	ESE	E	ESE	SE	SE	106	ESE
Apr 25	SE	ESE	ESE	E	E	E	E	ESE	ESE	SE	SE	SE	SE	SE	SSE	SE	SE	ESE	S	NW	NW	NW	NNW	NW	115	ESE
Apr 26	WNW	NE	WSW	W	WNW	WSW	WNW	NW	NW	NE	NNW	NW	WNW	WNW	NW	NW	NW	E	ENE	NNE	NNW	N	NNW	NNW	324	NW
Apr 27	NNW	NNW	NNW	NW	NW	WSW	WNW	NNW	N	N	N	N	N	NNW	NNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	W	NW	323	NW
Apr 28	NNW	N	NE	NW	NNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	N	N	335	NNW
Apr 29	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	N	NE	NNE	5	N
Apr 30	NNW	NNE	NNW	N	N	NNE	NE	NE	NE	ENE	ENE	E	E	ENE	ENE	ENE	ENE	ENE	NE	NE	NNE	NNE	NE	ENE	44	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 - AQHI - Grimshaw Station



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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - April 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	26.6	kph	on April 24 at hour 12	Hours in Service:	720
Maximum Daily Value:	19.4	kph	on April 9	Hours of Data:	720
Minimum Hourly Value:	0.3	kph	on April 1 at hour 19	Hours of Missing Data:	0
Minimum Daily Value:	4.9	kph	on April 15	Hours of Calibration:	0
Monthly Average:	9.2	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 13 (NNE) 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			
Apr 1	7.6	7.4	6.6	5.4	4.1	5.0	8.4	9.7	10.2	8.3	9.3	6.7	5.3	8.2	9.1	4.8	6.8	6.8	6.7	**0.3**	2.0	4.2	5.2	4.0	**0.3**	10.2	6.3
	N	NNE	N	NNE	NNE	E	ENE	E	ENE	E	E	E	E	SE	SSE	ESE	E	ENE	ENE	NNE	W	E	ENE	E			
Apr 2	3.5	4.4	5.7	8.3	9.0	6.7	7.3	5.9	8.3	13.5	16.1	16.8	17.3	18.6	17.5	16.2	14.5	11.0	8.0	4.3	1.0	5.8	2.9	1.6	1.0	18.6	9.3
	S	SSW	SSW	SSW	SW	SW	SSW	SSW	SW	WSW	WSW	W	WNW	W	WNW	WNW	WNW	WNW	W	SW	SSE	NE	NE	NNE			
Apr 3	0.7	1.6	1.1	2.1	2.7	5.6	4.9	3.6	9.1	9.0	9.1	8.0	6.9	10.1	11.1	10.7	11.4	13.3	8.0	4.2	8.4	7.6	17.7	12.4	0.7	17.7	7.5
	NE	SE	SSE	ESE	E	E	E	ESE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SSE	SE	ESE	W	NW	W	W			
Apr 4	10.7	7.3	9.8	8.3	5.9	7.4	4.9	5.0	6.4	3.3	1.4	3.5	6.1	7.0	3.9	2.1	0.9	3.4	2.8	5.8	8.4	8.0	12.2	9.6	0.9	12.2	6.0
	WSW	SSW	SSW	SW	SSW	SSW	SW	SSW	SW	SSW	E	NNW	NNW	NNW	NW	NNE	NNE	E	W	WNW	WNW	WNW	NW	WNW			
Apr 5	9.8	8.9	7.9	7.0	6.5	3.7	4.3	5.2	5.0	5.9	3.0	5.6	9.5	10.7	13.4	11.8	9.6	9.4	7.3	9.1	7.5	7.3	8.4	13.0	3.0	13.4	7.9
	WNW	NW	NNW	NNW	NW	NW	WSW	W	WNW	WNW	W	SW	SSW	SW	SW	W	WSW	WSW	W	SW	WSW	W	W	W			
Apr 6	12.5	14.2	14.8	19.1	17.5	15.0	15.0	14.5	15.6	13.1	10.9	10.3	15.2	18.6	19.1	16.1	15.2	12.9	9.6	5.1	3.5	1.1	0.7	1.6	0.7	19.1	12.1
	W	W	W	W	W	WNW	WNW	WNW	W	WNW	NW	WNW	WSW	W	W	W	W	WSW	SW	SW	SW	SW	E	SE			
Apr 7	4.8	9.0	6.6	2.8	4.8	6.0	4.9	2.6	6.8	7.2	7.4	6.9	7.6	10.4	7.1	10.7	9.7	6.2	5.2	7.2	9.2	8.9	6.9	5.5	2.6	10.7	6.8
	SSE	SSE	S	SSE	SE	SSE	SE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SE	ESE	ENE	NE	ENE	ENE	E	SE			
Apr 8	1.8	0.6	2.8	2.9	4.4	3.0	2.7	1.0	1.9	1.6	4.8	6.0	20.3	17.8	22.4	17.2	16.2	15.5	22.3	17.5	15.7	17.2	17.9	18.5	0.6	22.4	10.5
	ESE	ENE	NNE	N	N	NE	ENE	SE	ESE	ESE	SSE	WSW	W	W	W	W	W	W	W	W	W	WNW	WNW	WNW			
Apr 9	20.7	19.7	22.7	20.8	19.9	18.2	19.0	24.1	25.5	25.4	23.5	22.7	21.4	19.0	19.7	19.2	20.6	20.2	18.2	15.2	12.3	11.1	12.6	13.0	11.1	25.5	**19.4**
	WNW	WNW	NW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW			
Apr 10	14.6	13.6	14.6	15.5	17.3	19.8	16.7	19.1	21.0	21.0	21.1	18.7	20.8	20.7	24.0	24.1	23.0	20.3	17.1	15.1	11.7	10.6	11.2	10.3	10.3	24.1	17.6
	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE			
Apr 11	8.3	10.7	14.1	17.5	13.7	13.9	17.6	20.3	22.1	19.2	20.8	19.4	18.4	18.6	20.0	21.2	22.0	21.5	20.3	16.8	16.1	12.9	12.5	15.9	8.3	22.1	17.2
	NNE	NNE	NNE	N	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	N			
Apr 12	15.9	15.7	17.1	15.0	14.3	15.6	10.9	12.5	14.4	13.5	11.6	9.2	12.8	11.6	11.8	9.6	8.0	8.6	10.7	10.9	12.4	11.1	11.0	12.2	8.0	17.1	12.4
	N	NNE	N	N	N	N	NNE	N	NNE	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	N	N	N	N	NNE	NNE			
Apr 13	10.4	7.2	7.4	7.6	7.5	7.2	5.8	6.7	5.4	4.7	5.8	6.0	7.6	8.5	6.8	8.0	7.2	8.2	7.0	7.1	7.4	8.8	9.2	9.0	4.7	10.4	7.4
	NNE	NNE	N	N	N	N	NNE	NE	NE	ENE	E	NNE	NNE	NE	NE	ENE	ENE	NE	NNE	N	N	N	N	NNE			
Apr 14	6.4	5.3	4.7	6.5	6.8	6.6	7.3	7.1	7.5	6.9	7.7	5.5	2.4	2.6	2.8	3.8	5.0	4.9	6.3	5.2	4.5	4.3	5.7	4.5	2.4	7.7	5.4
	NNE	NE	NE	NNE	N	N	N	NNE	NE	ENE	ENE	ENE	ENE	E	ENE	ENE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE			
Apr 15	5.3	6.1	5.5	4.7	5.0	5.5	6.1	6.6	7.0	4.7	4.4	6.9	6.1	6.0	7.9	6.6	5.0	3.0	3.2	2.9	0.8	3.2	2.1	4.1	0.8	7.9	**4.9**
	N	N	NNE	NNE	NNE	NE	NE	ENE	ENE	ESE	ESE	SSE	SSE	SSE	SSE	SSE	S	ESE	SE	ESE	E	NNE	N	N			
Apr 16	3.7	4.1	4.1	4.1	3.0	3.9	3.1	4.9	4.8	2.9	3.9	5.1	4.9	8.0	9.1	8.4	7.0	8.1	8.0	4.8	3.0	3.0	3.0	4.6	2.9	9.1	5.0
	N	NNE	NE	N	NNE	NE	NNE	ENE	ENE	ESE	E	E	ESE	ENE	NE	ENE	ENE	E	ENE	ENE	NE	NNE	NNE	N			
Apr 17	4.8	4.9	5.4	5.7	5.5	7.2	8.2	9.6	8.1	7.0	2.4	6.6	7.8	10.0	7.6	9.7	3.4	11.3	10.3	11.7	16.0	16.3	17.0	15.8	2.4	17.0	8.8
	N	N	N	N	N	N	N	N	N	N	NNE	N	NNE	NNW	N	N	N	N	NNE	NNE	NNE	N	N	NNE			
Apr 18	14.9	13.2	12.7	10.9	10.0	8.6	9.9	8.7	8.6	11.0	13.2	15.4	16.0	17.1	18.0	19.3	20.3	17.9	18.1	18.2	18.8	19.7	18.3	20.8	8.6	20.8	15.0
	NNE	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE			
Apr 19	19.3	16.3	16.9	17.8	18.9	18.0	18.6	17.1	14.8	15.2	14.4	13.0	13.7	14.4	13.8	13.8	14.4	13.9	13.0	10.9	11.6	13.5	12.2	10.5	10.5	19.3	14.8
	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	N	N	N	N	N			
Apr 20	8.8	9.5	10.1	9.0	8.0	6.4	5.6	5.2	5.7	4.1	1.0	2.1	2.5	5.0	5.1	9.0	12.5	8.4	5.6	4.6	4.6	4.8	5.1	5.0	1.0	12.5	6.2
	N	N	N	N	N	N	NNE	NE	NE	E	SSE	ESE	SSW	S	SSW	SSW	SSW	SSW	SW	W	NW	NNW	N	NNE			

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - April 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	26.6	kph	on April 24 at hour 12	Hours in Service:	720
Maximum Daily Value:	19.4	kph	on April 9	Hours of Data:	720
Minimum Hourly Value:	0.3	kph	on April 1 at hour 19	Hours of Missing Data:	0
Minimum Daily Value:	4.9	kph	on April 15	Hours of Calibration:	0
Monthly Average:	9.2	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 13 (NNE) 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			
Apr 21	5.1	3.8	4.1	5.7	5.6	5.6	5.2	4.4	2.7	7.2	5.2	8.1	7.1	5.0	4.0	6.4	8.6	8.0	7.7	6.6	5.4	4.6	5.1	2.0	2.0	8.6	5.6
	NNE	NNE	NNE	NE	NE	NE	ENE	ENE	ESE	SSE	SSE	SSE	SSE	S	SW	SW	SSW	SW	WSW	SW	WSW	W	W	W			
Apr 22	4.3	6.0	8.5	8.7	0.8	2.9	6.0	4.9	2.5	3.3	3.9	5.0	4.4	7.1	8.5	6.7	8.2	13.8	12.9	7.4	2.4	4.6	7.7	8.7	0.8	13.8	6.2
	W	WNW	NW	NW	N	WNW	NNW	N	E	SE	SE	SSE	S	SSW	SSW	SSW	WSW	SW	SW	SW	WSW	NW	N	N			
Apr 23	7.1	6.4	8.7	7.8	4.2	3.4	4.3	3.2	3.9	4.7	2.9	3.6	2.6	4.1	3.5	4.3	2.1	1.3	7.0	5.9	7.3	9.1	9.0	6.3	1.3	9.1	5.1
	NNE	N	N	NNE	NE	NNE	N	N	ESE	E	ENE	E	ESE	SSW	WNW	NNW	NW	N	E	ENE	NE	NE	NE	NE			
Apr 24	5.3	5.9	6.5	8.9	7.7	8.2	8.6	7.2	7.3	7.5	14.5	18.2	**26.6**	22.8	23.4	24.4	21.0	12.1	7.9	7.8	9.1	8.6	15.1	13.3	5.3	**26.6**	12.4
	ENE	ENE	ENE	ENE	NE	NE	NE	ENE	E	ESE	SE	SE	SSE	SE	SE	SE	SE	SE	ESE	ESE	E	ESE	SE	SE			
Apr 25	13.6	5.8	5.5	6.1	8.1	8.3	8.1	6.2	7.9	11.4	14.4	11.8	11.1	15.7	15.2	15.4	19.2	8.1	11.3	3.6	10.2	9.2	6.1	6.5	3.6	19.2	10.0
	SE	ESE	ESE	E	E	E	E	ESE	ESE	SE	SE	SE	SE	SE	SSE	SE	SE	ESE	S	NW	NW	NW	NNW	NW			
Apr 26	2.8	0.6	5.4	7.4	5.9	4.1	7.7	9.0	5.9	2.4	4.7	4.5	3.7	5.2	4.9	5.7	1.5	6.9	4.3	4.5	6.2	10.3	8.4	7.7	0.6	10.3	5.4
	WNW	NE	WSW	W	WNW	WSW	WNW	NW	NW	NE	NNW	NW	WNW	WNW	NW	NW	NW	E	ENE	NNE	NNW	N	NNW	NNW			
Apr 27	8.1	9.2	9.2	10.0	2.4	3.9	7.8	10.3	14.2	16.0	16.0	14.1	12.7	10.2	7.8	8.8	6.3	6.5	6.3	6.9	6.1	4.4	5.7	3.5	2.4	16.0	8.6
	NNW	NNW	NNW	NW	NW	WSW	WNW	NNW	N	N	N	N	N	NNW	NNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	W	NW			
Apr 28	1.9	2.8	1.2	3.1	7.9	7.7	7.2	8.2	8.9	7.3	7.6	8.8	8.0	6.9	6.2	7.1	7.8	8.4	8.3	7.3	7.2	8.2	9.9	11.3	1.2	11.3	7.1
	NNW	N	NE	NW	NNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	N	N			
Apr 29	12.4	14.9	16.6	15.3	15.6	13.9	14.5	11.4	8.5	5.4	7.3	6.9	6.3	6.4	7.2	6.0	4.6	5.5	4.8	5.5	4.1	2.2	2.8	2.8	2.2	16.6	8.4
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	NNE	NNE	NNE	NNE	N	NE	NNE			
Apr 30	1.1	2.6	2.1	3.8	5.1	3.4	4.1	6.3	5.7	3.9	5.6	6.6	5.7	6.6	6.7	10.3	7.8	8.3	9.3	6.0	4.5	4.8	6.9	7.1	1.1	10.3	5.6
	NNW	NNE	NNW	N	N	NNE	NE	NE	NE	ENE	ENE	E	E	ENE	ENE	ENE	ENE	ENE	NE	NE	NNE	NNE	NE	ENE			

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 April 2022 Monthly Ambient Air Quality Monitoring Report.

Peace River Area Monitoring Program

APRIL 2022

Ambient Air Monitoring Calibration Report

- 842b STATION-

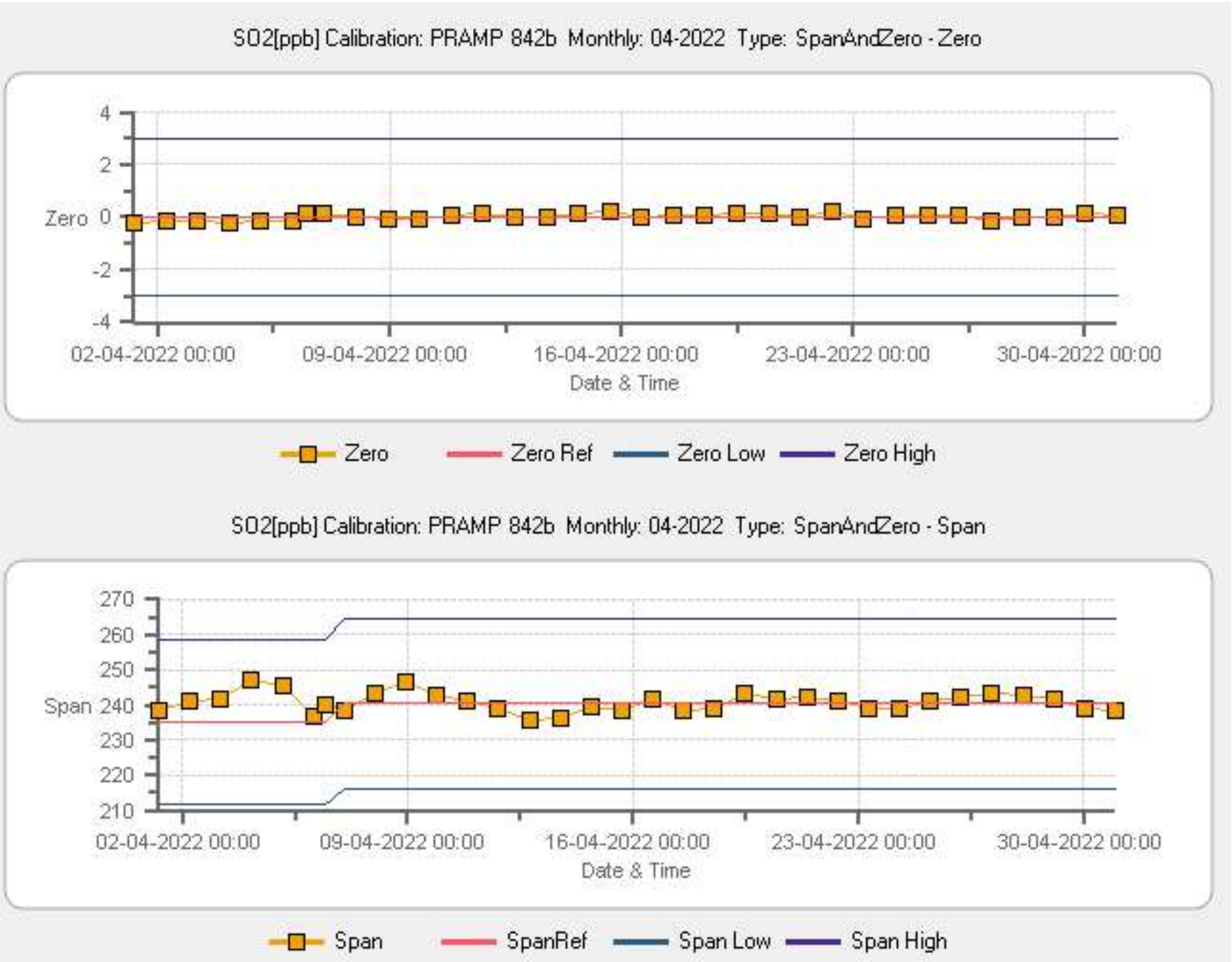
CAL-PRAMP-202204-01561

Operation and Maintenance:
Bureau Veritas Canada

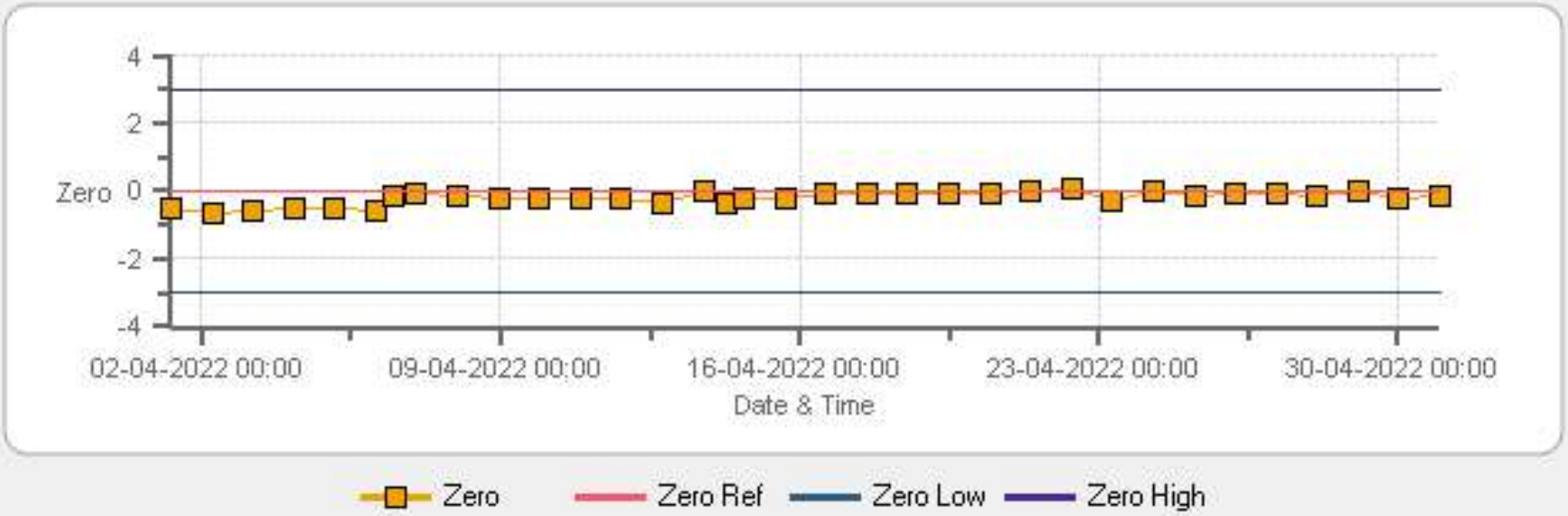
Data Validation and Report:
Bureau Veritas Canada

May 25, 2022

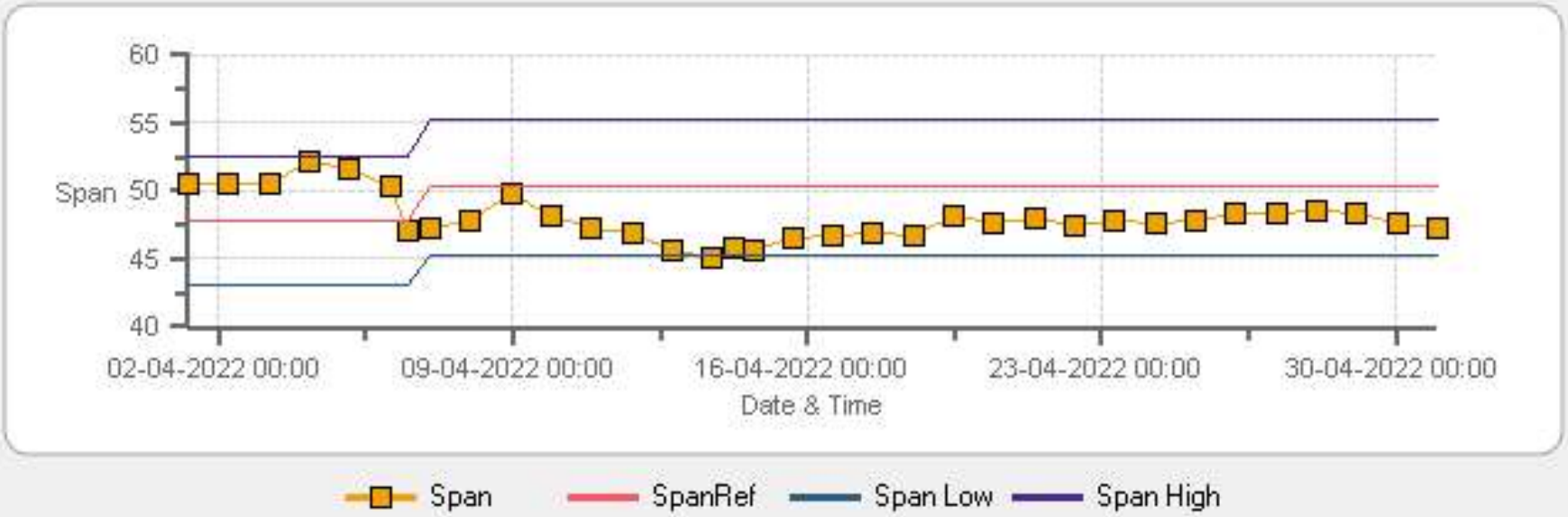
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

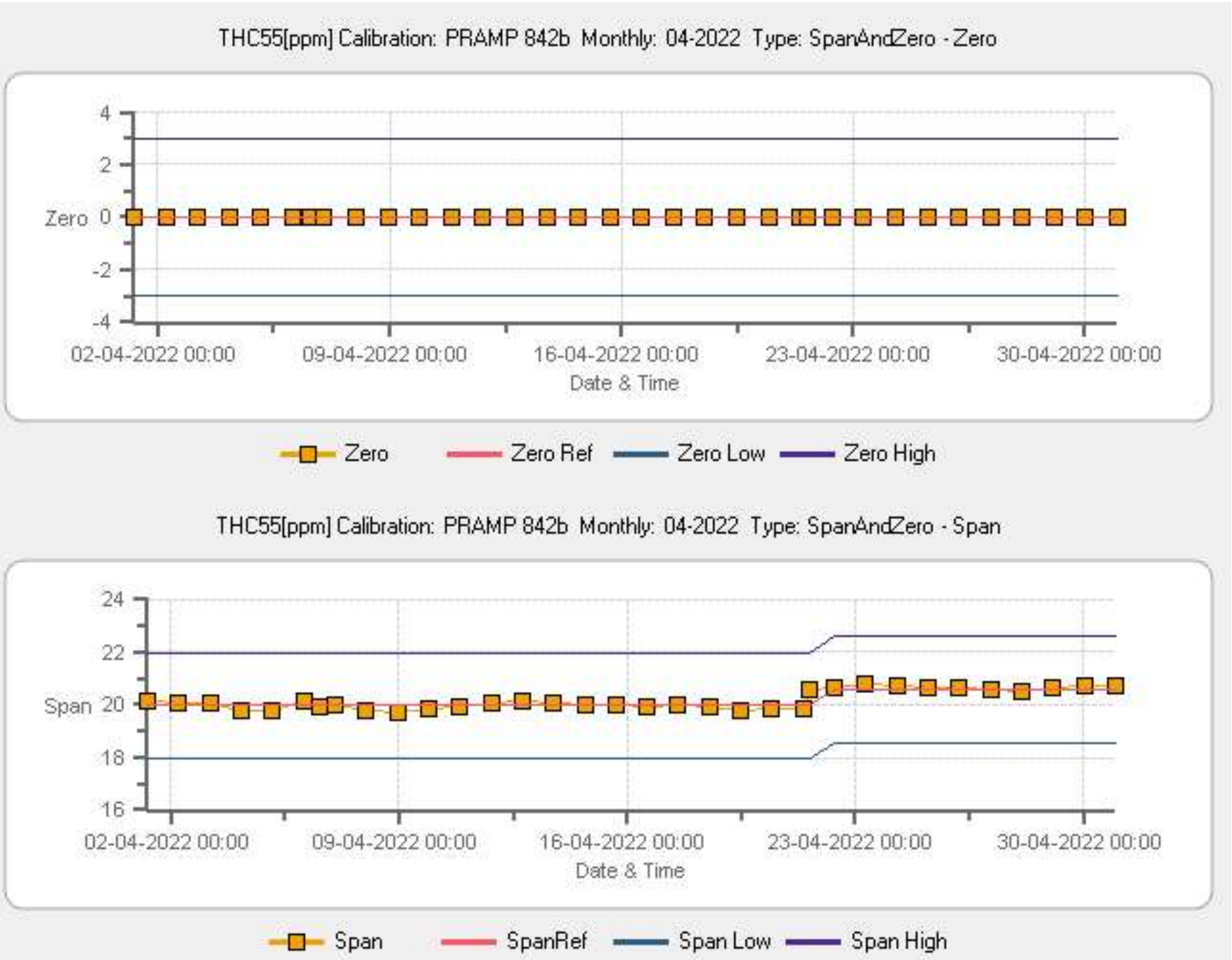

SO2[ppb] Calibration: PRAMP 842b Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
SO2[ppb] Calibration: PRAMP 842b Monthly: 04-2022 Type: SpanAndZero - Span
270
260
250
Span 240
230
220
210
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

TRS[ppb] Calibration: PRAMP 842b Monthly: 04-2022 Type: SpanAndZero - Zero

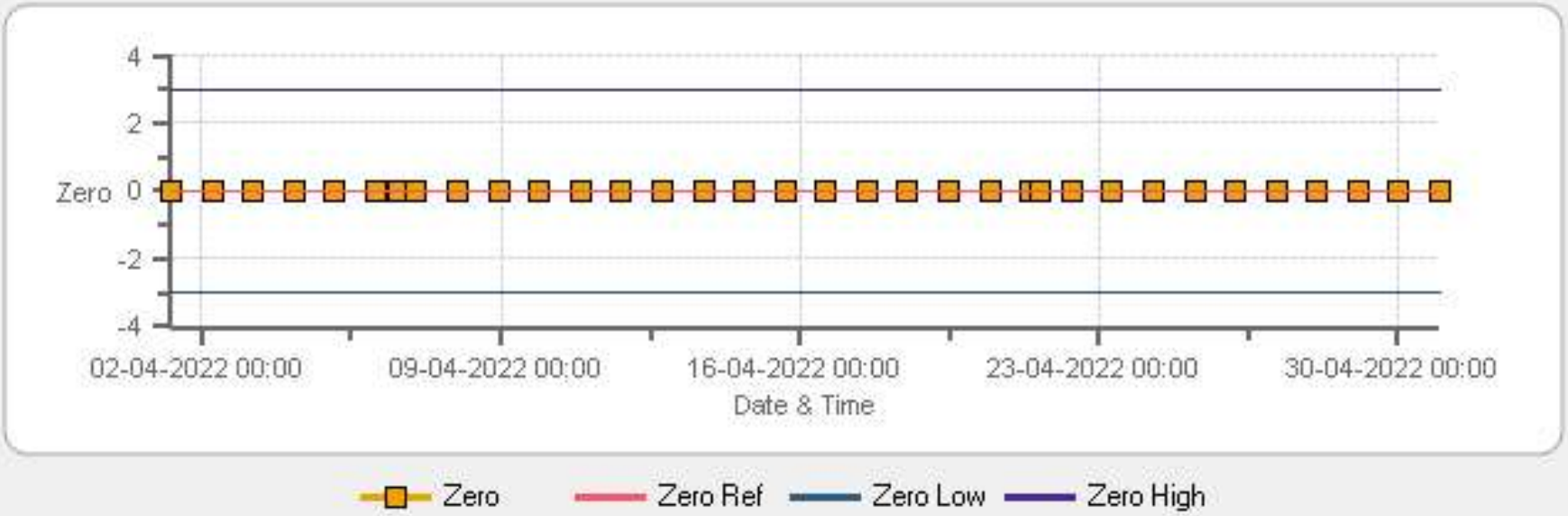


TRS[ppb] Calibration: PRAMP 842b Monthly: 04-2022 Type: SpanAndZero - Span

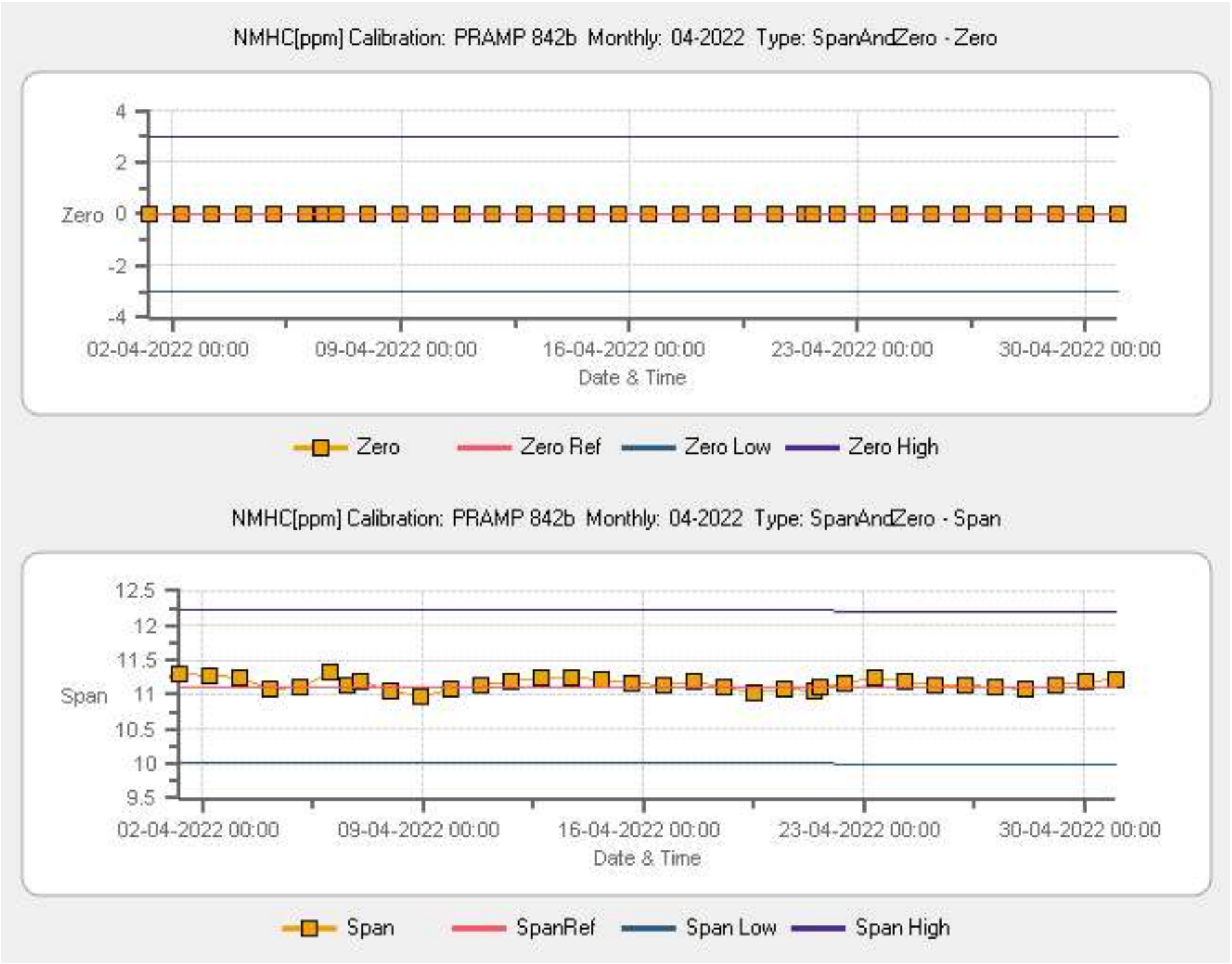



THC55[ppm] Calibration: PRAMP 842b Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: PRAMP 842b Monthly: 04-2022 Type: SpanAndZero - Span
24
22
Span 20
18
16
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

CH4[ppm] Calibration: PRAMP 842b Monthly: 04-2022 Type: SpanAndZero - Zero



CH4[ppm] Calibration: PRAMP 842b Monthly: 04-2022 Type: SpanAndZero - Span


NMHC[ppm] Calibration: PRAMP 842b Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: PRAMP 842b Monthly: 04-2022 Type: SpanAndZero - Span
12.5
12
11.5
Span 11
10.5
10
9.5
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	06-Apr-2022	PREVIOUS CALIBRATION DATE:	09-Mar-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.2
LOCATION:	842b	BAROMETRIC (mBar):	949
PURPOSE	Routine	START TIME (MST):	07:27
PERFORMED BY:	Limin Li	END TIME (MST):	11:13

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	425
INITIAL		FINAL	
BKG/OFFSET	8.3	BKG/OFFSET	8.1
COEF/SLOPE	1.081	COEF/SLOPE	1.096
Expected (reference) Value	235.2	Expected (reference) Value	240.3

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	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):	800	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:

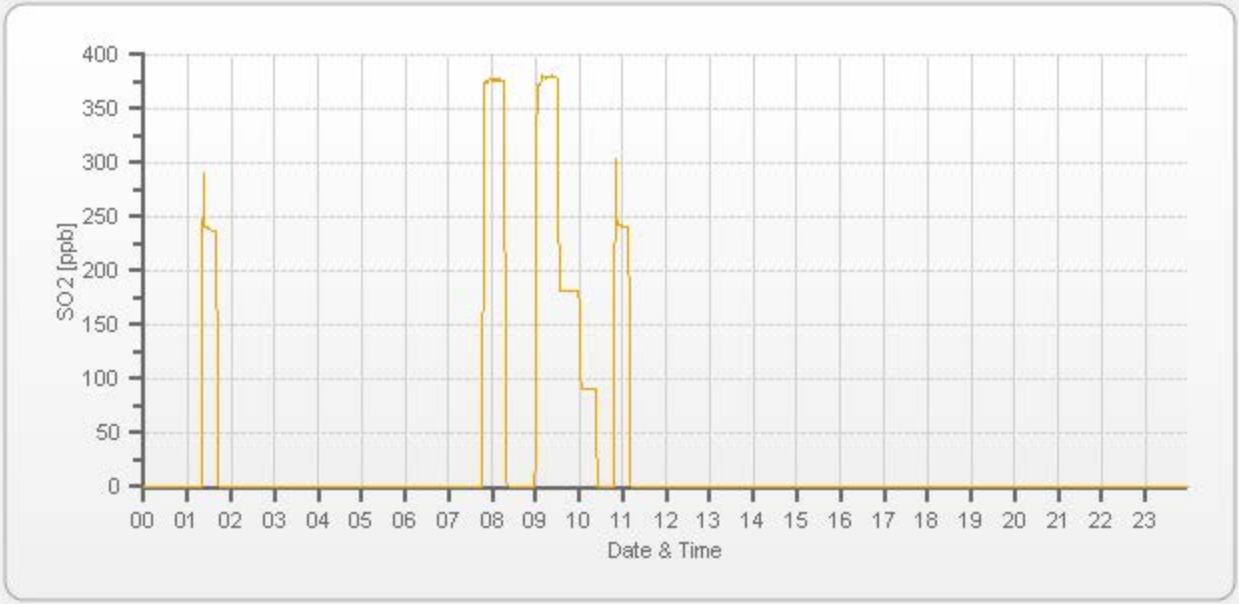
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
6000		6000	0.00	-0.2	0		
5956	44.20	6000	380.12	376.1	380.1	1.010	1.000
5979	20.90	6000	179.74	n/a	181.6	n/a	0.990
5990	10.50	6000	90.30	n/a	90.7	n/a	0.996

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Sample filter changed.


SO2[ppb] Station: PRAMP 842b Daily: 06-04-2022 Type: AVG 1 Min. [1 Min.]
400
350
300
250
200
150
100
50
0
SO2 [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
SO2 [ppb]

TRS Analyzer Calibration by Dilution

DATE:	06-Apr-2022	PREVIOUS CALIBRATION DATE:	09-Mar-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.2
LOCATION:	842b	BAROMETRIC (mBar):	949
PURPOSE	Routine	START TIME (MST):	07:29
PERFORMED BY:	Limin Li	END TIME (MST):	12:02

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	374
INITIAL		FINAL	
BKG/OFFSET	14.3	BKG/OFFSET	13.1
COEF/SLOPE	0.97	COEF/SLOPE	0.924
Expected (reference) Value	47.83	Expected (reference) Value	50.28

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	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):	1700	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:	07:53	SO2 Conc (ppb)	380
END TIME:	08:12	Analyzer Response (ppb)	0.0

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	-0.3	0		
7443	57.35	7500	78.00	80.33	78	0.967	1.000
7472	27.94	7500	38.00	n/a	37.96	n/a	1.001
7486	13.97	7500	19.00	n/a	18.43	n/a	1.031

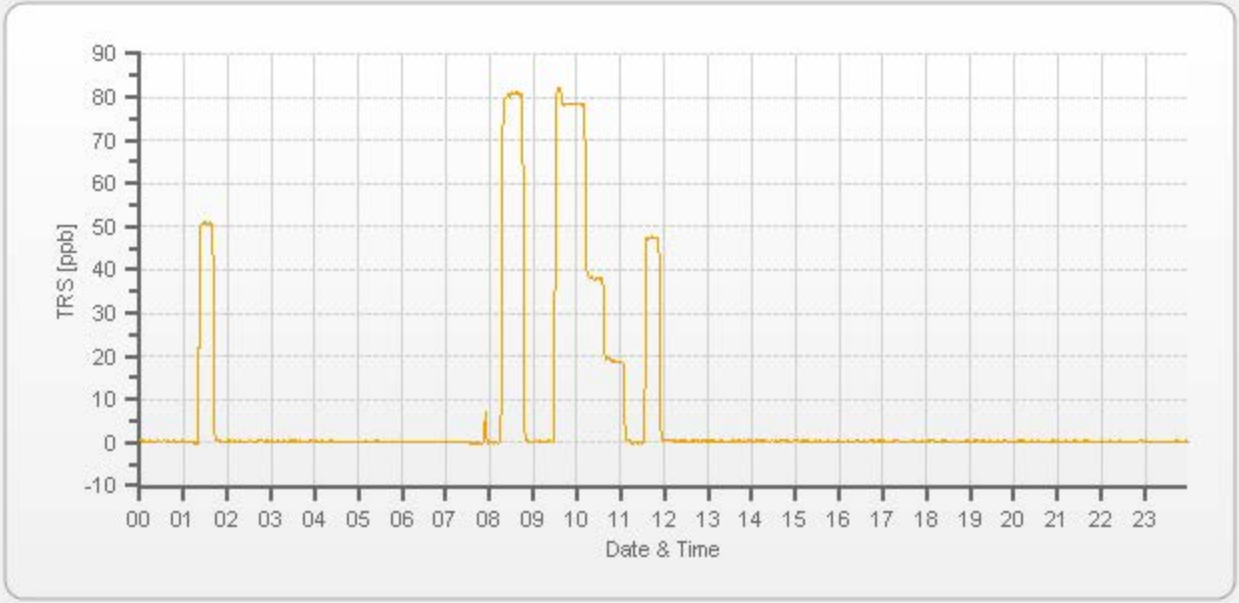
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.003	-0.2%

COMMENTS:

TRS Converter CDNOVA CDN #576. Change sample filter.

TRS[ppb] Station: PRAMP 842b Daily: 06-04-2022 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	06-Apr-2022	PREVIOUS CALIBRATION DATE:	10-Mar-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	22.5
LOCATION:	842b	BAROMETRIC (mBar):	951
PURPOSE	Routine	START TIME (MST):	10:12
PERFORMED BY:	Limin Li	END TIME (MST):	13:53

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1501663728	1050
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.001	0.998	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):	1850		LOW ID:	n/a
MFC CALIBRATION DATE:	23-Mar-2022	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
	8.85	11.12	19.97		8.85	11.12	19.97

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	14.73	13.72	28.45	14.56	13.40	27.96	0.991	0.977	0.984	1.002	1.000	1.001
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.13	6.64	13.77	n/a	n/a	n/a	1.023	1.009	1.016
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.50	3.27	6.77	n/a	n/a	n/a	1.042	1.024	1.034

LINEAR REGRESSION ANALYSIS:

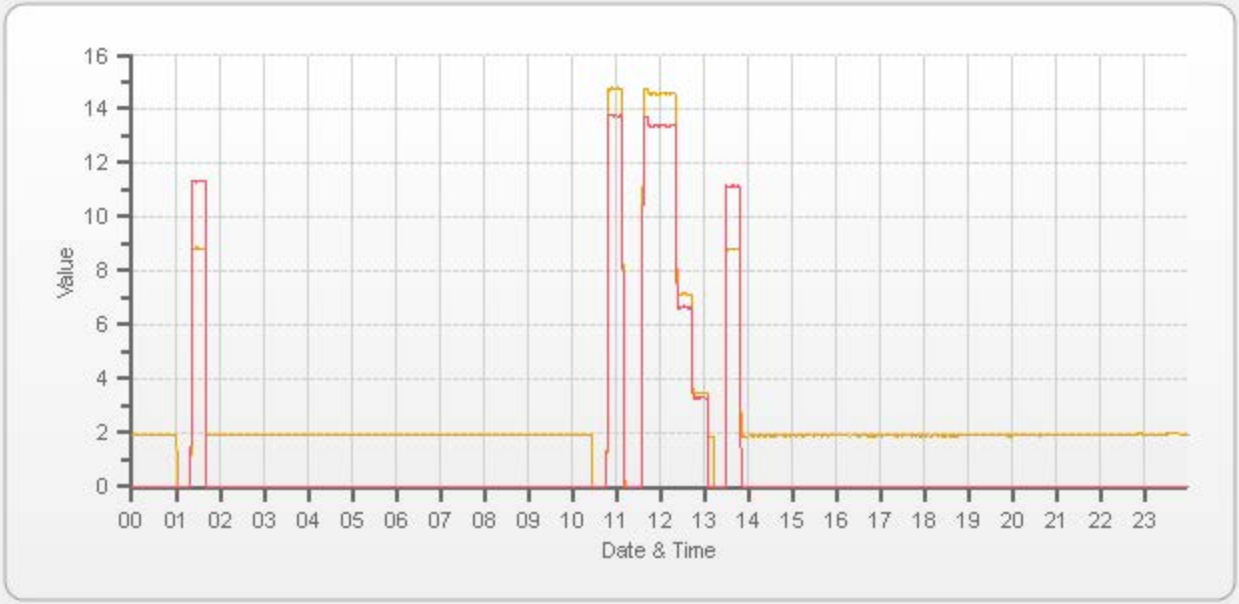
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.000	-0.4%
NMHC	1.000	1.002	-0.2%
THC	1.000	1.001	-0.3%

Comments:

Sample filter changed. Deionizer:3323 hours.

Use Zero Chrom? **Yes**

Station: PRAMP 842b Daily: 06-04-2022 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	April 6, 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:	March 9, 2022	Channel offline =11:16-11:22am, Audit 10 tip:11:20am.
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
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:	March 9, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (^{o}C):	4.4
Station - Ambient Temperature (^{o}C):	3.7
Temperature Difference (^{o}C):	0.7

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	March 9, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Feb 22, 2023	
Reference Pressure - Units/Reading:	millibar	951.6
Station Pressure - Units/Reading:	millibar	951
Pressure Tolerance +/- 15% of error:	809 - 1094	0.06%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	March 9, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	70.23	
Station Hygrometer % RH- Reading:	74.30	
RH Tolerance +/- 15% of difference:	59.70 - 80.76	-5.8%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	March 9, 2022	Previous check date:	March 9, 2022
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	9	Wind Direction on Data Logger:	W
		Wind Direction Pass/Fail?:	Pass

Comments

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

APRIL 2022

Ambient Air Monitoring Calibration Report

- 986c STATION-

CAL-PRAMP-202204-01562

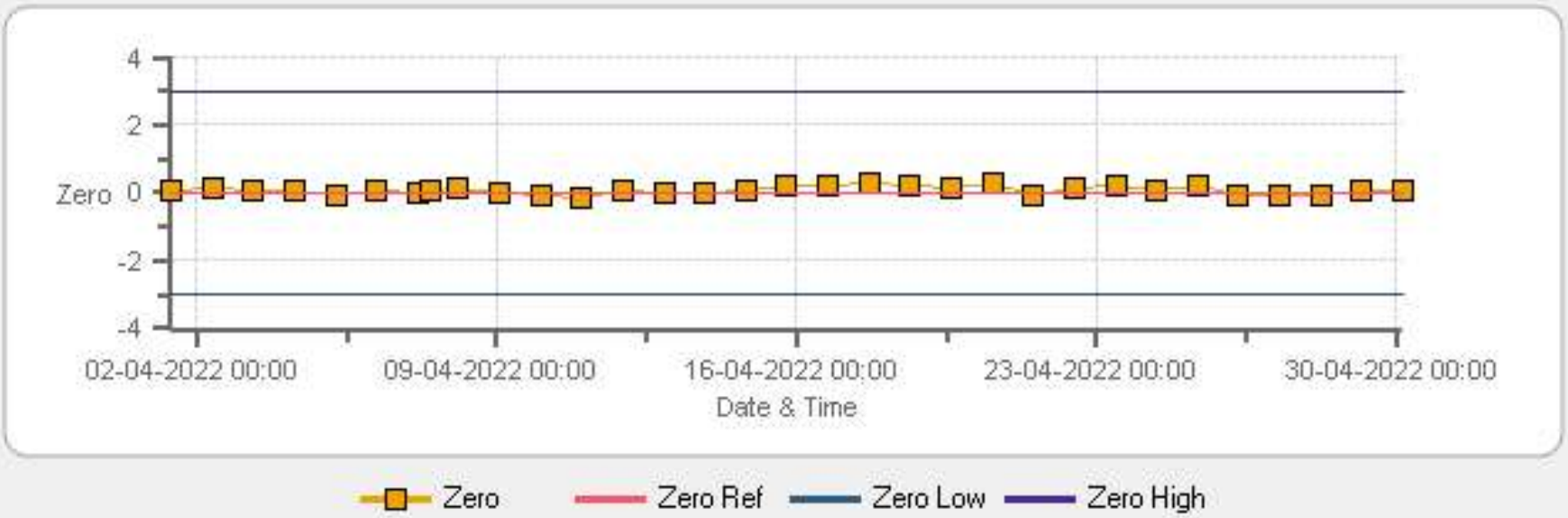
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

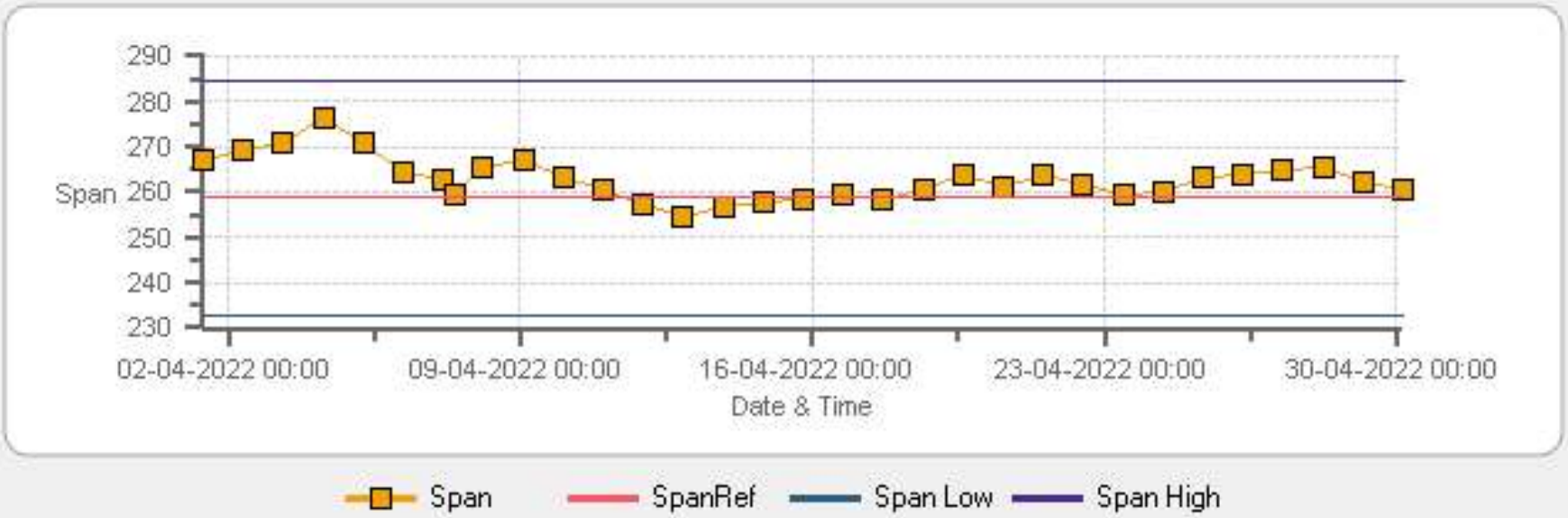
May 25, 2022

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

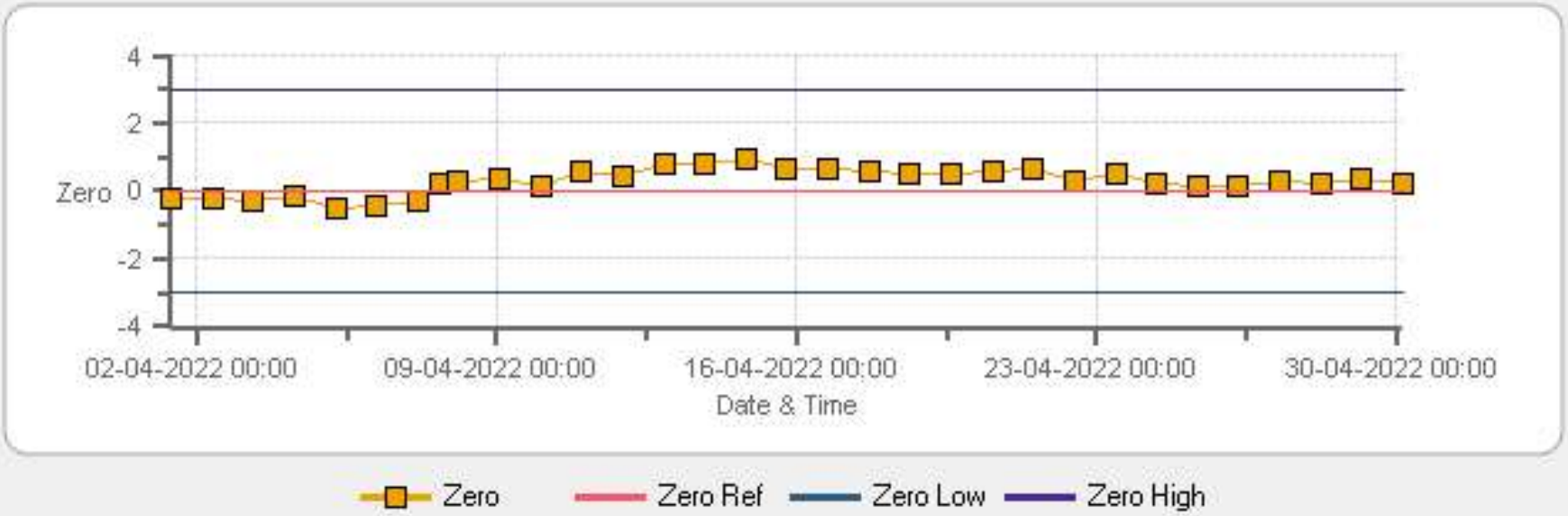
SO2[ppb] Calibration: PRAMP 986c Monthly: 04-2022 Type: SpanAndZero - Zero



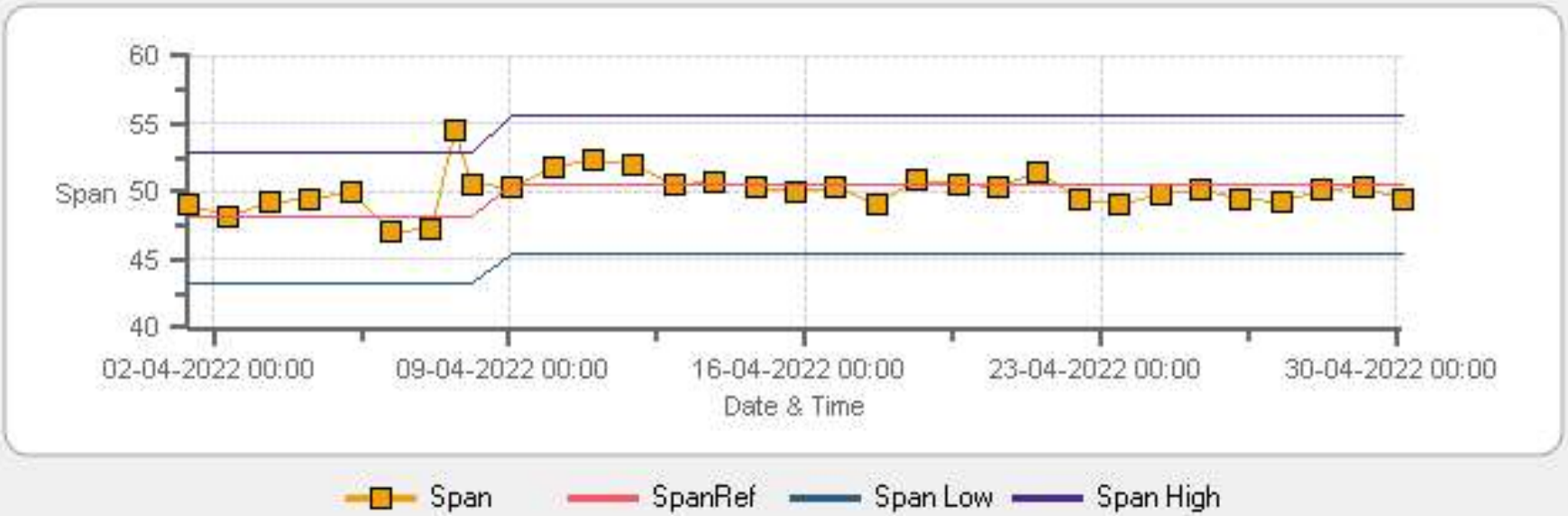
SO2[ppb] Calibration: PRAMP 986c Monthly: 04-2022 Type: SpanAndZero - Span

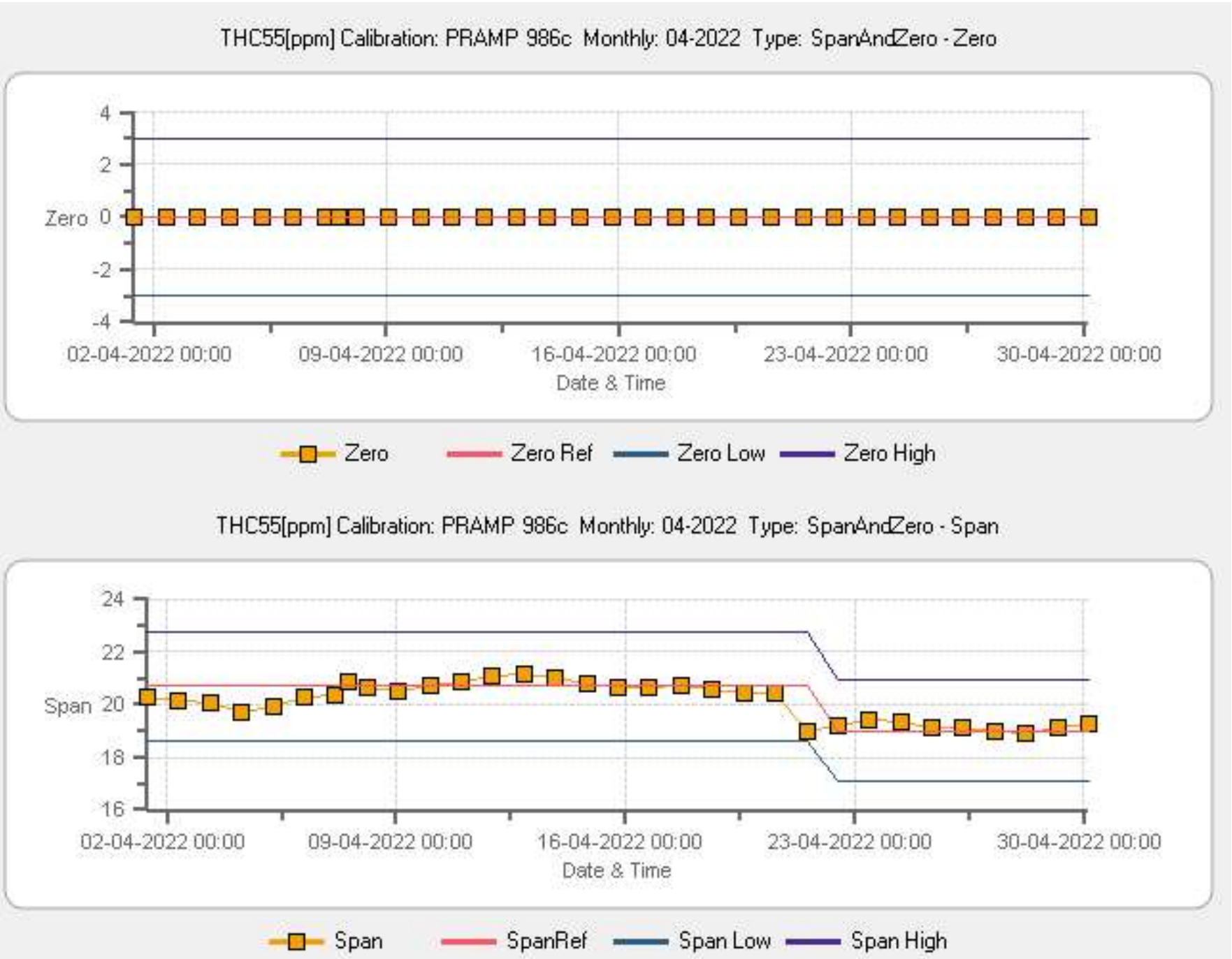


TRS[ppb] Calibration: PRAMP 986c Monthly: 04-2022 Type: SpanAndZero - Zero

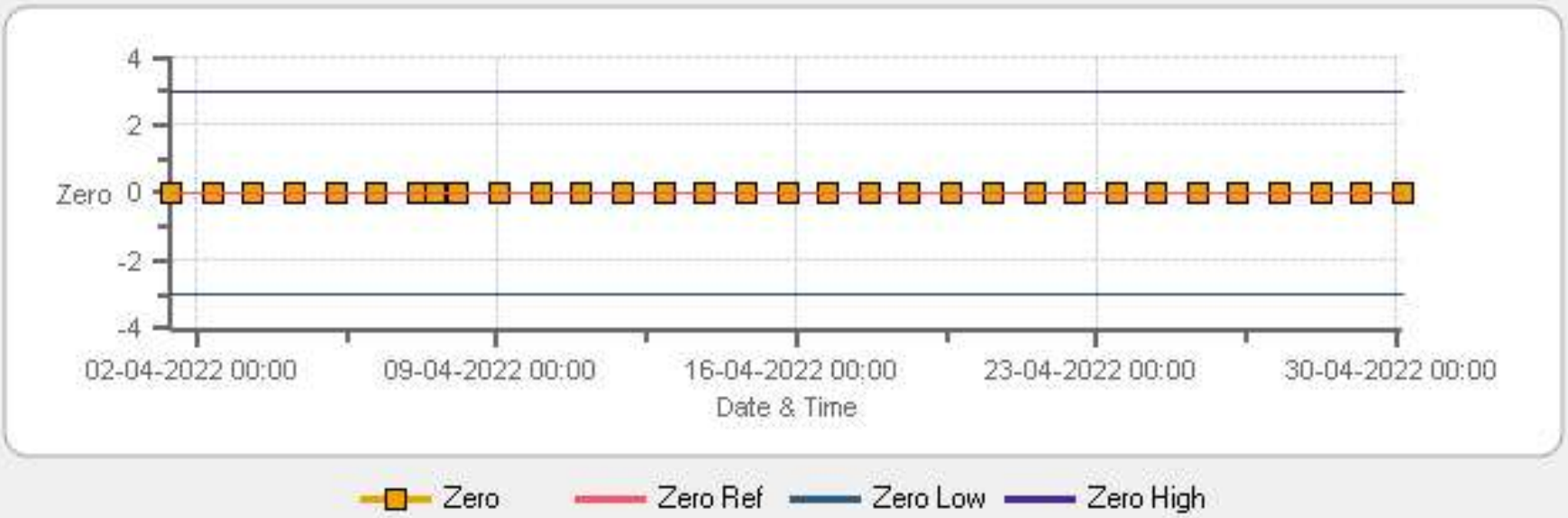


TRS[ppb] Calibration: PRAMP 986c Monthly: 04-2022 Type: SpanAndZero - Span

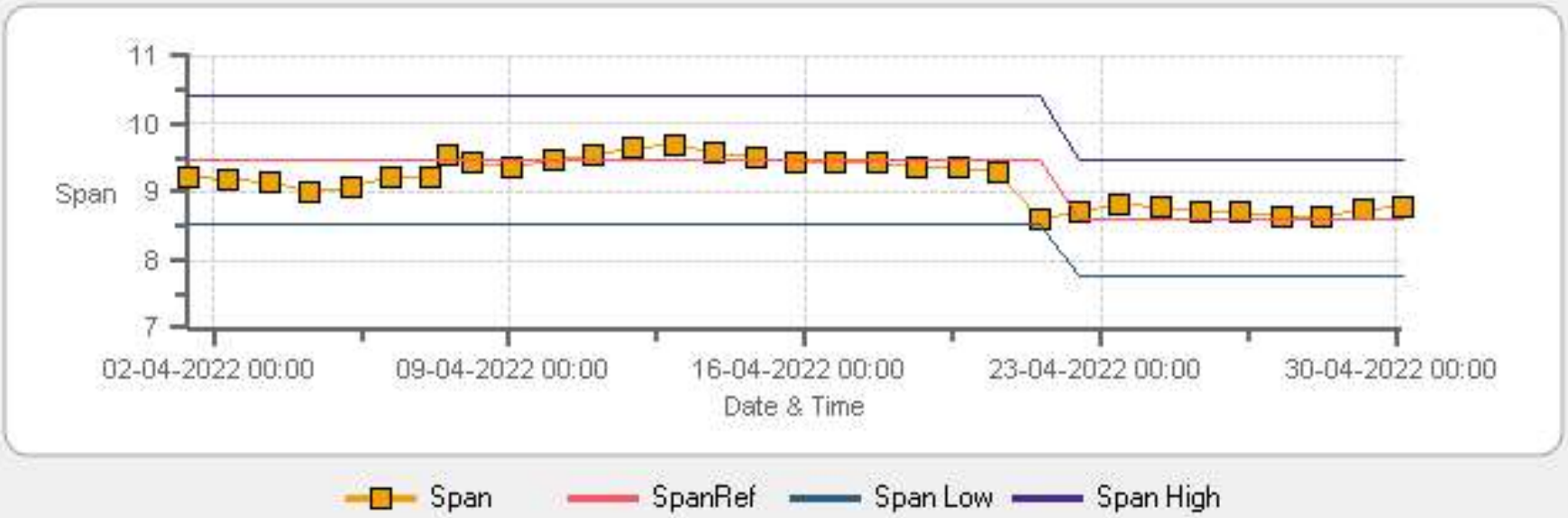



THC55[ppm] Calibration: PRAMP 986c Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: PRAMP 986c Monthly: 04-2022 Type: SpanAndZero - Span
24
22
Span 20
18
16
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

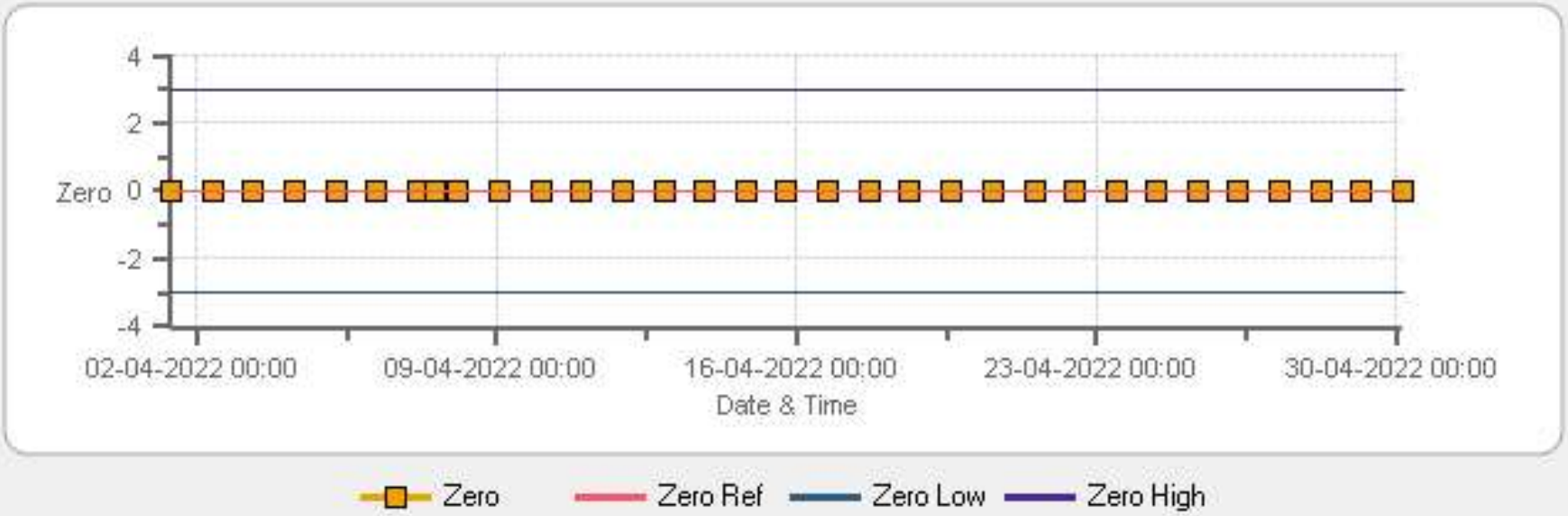
CH4[ppm] Calibration: PRAMP 986c Monthly: 04-2022 Type: SpanAndZero - Zero



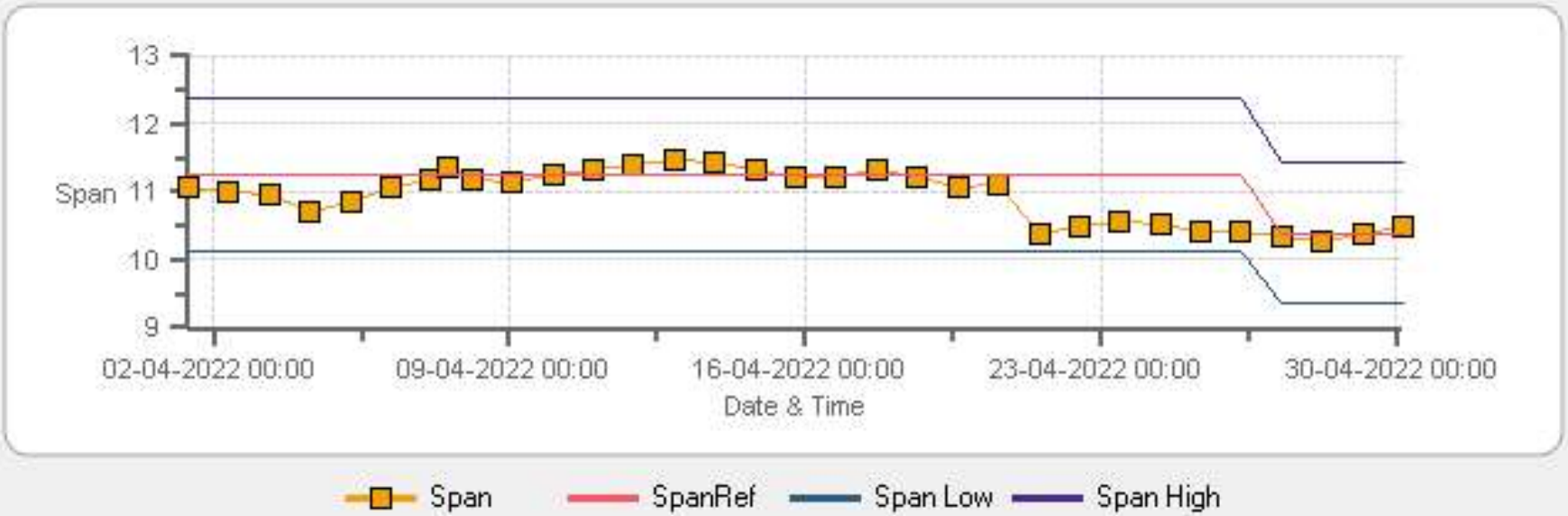
CH4[ppm] Calibration: PRAMP 986c Monthly: 04-2022 Type: SpanAndZero - Span



NMHC[ppm] Calibration: PRAMP 986c Monthly: 04-2022 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 986c Monthly: 04-2022 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	07-Apr-2022	PREVIOUS CALIBRATION DATE:	10-Mar-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.9
LOCATION:	986C	BAROMETRIC (mBar):	952
PURPOSE	Routine	START TIME (MST):	07:16
PERFORMED BY:	Limin Li	END TIME (MST):	10:39

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	432
INITIAL		FINAL	
BKG/OFFSET	14.2	BKG/OFFSET	13.9
COEF/SLOPE	1.043	COEF/SLOPE	1.024
Expected (reference) Value	258.7	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:	23-Mar-2022	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):	800	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	386.9	380.1	0.982	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.

SO2[ppb] Station: PRAMP 986c Daily: 07-04-2022 Type: AVG 1 Min. [1 Min.]

TRS Analyzer Calibration by Dilution

DATE:	07-Apr-2022	PREVIOUS CALIBRATION DATE:	10-Mar-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	25.1
LOCATION:	986C	BAROMETRIC (mBar):	951
PURPOSE	Removal/Shut-down	START TIME (MST):	11:00
PERFORMED BY:	Limin Li	END TIME (MST):	12:40

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	426
INITIAL		FINAL	
BKG/OFFSET	14.5	BKG/OFFSET	n/a
COEF/SLOPE	0.958	COEF/SLOPE	n/a
Expected (reference) Value	48.18	Expected (reference) Value	48.18

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	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):	1700	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:	n/a	SO2 Conc (ppb)	380
END TIME:	n/a	Analyzer Response (ppb)	n/a

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	-0.49	n/a		
7443	57.35	7500	78.00	74.65	n/a	1.038	n/a
7472	27.94	7500	38.00	36.38	n/a	1.031	n/a
7486	13.97	7500	19.00	17.74	n/a	1.042	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.964	-0.5%

COMMENTS:

Reset BKG and COFF to as found value, then do shutdown calibration.

TRS Analyzer Calibration by Dilution

DATE:	07-Apr-2022	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	24.8
LOCATION:	986C	BAROMETRIC (mBar):	947
PURPOSE	Install/Post-Repair	START TIME (MST):	14:22
PERFORMED BY:	Limin Li	END TIME (MST):	17:10

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	426
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	14.5
COEF/SLOPE	n/a	COEF/SLOPE	0.995
Expected (reference) Value	n/a	Expected (reference) Value	50.53

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	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):	1700	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:	14:37	SO2 Conc (ppb)	380
END TIME:	14:55	Analyzer Response (ppb)	0.4

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	78.02	n/a	1.000
7472	28.16	7500	38.30	n/a	37.58	n/a	1.019
7486	14.12	7500	19.20	n/a	18.67	n/a	1.029

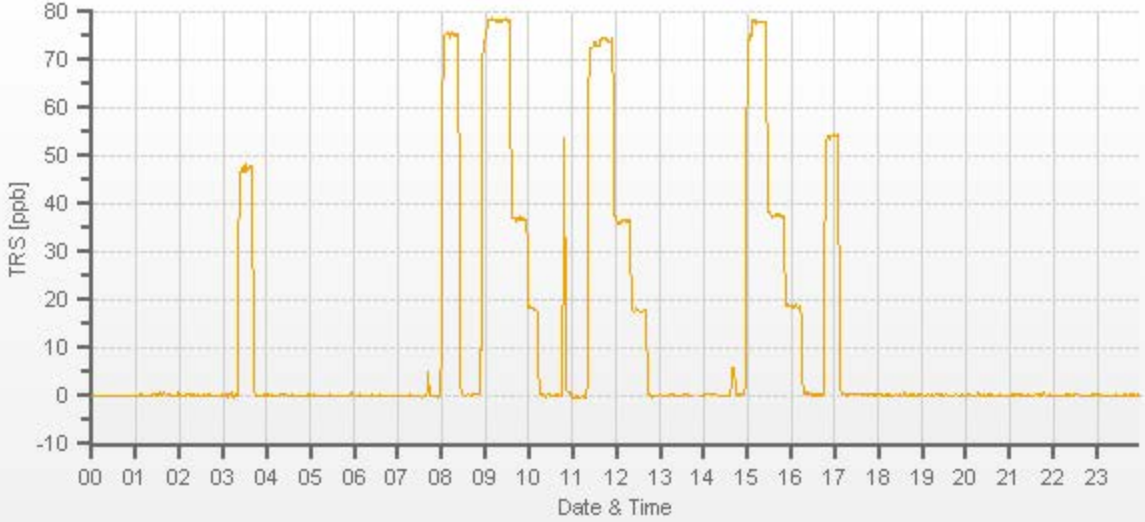
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	-0.4%

COMMENTS:

Post-repair after renew scrubber

TRS[ppb] Station: PRAMP 986c Daily: 07-04-2022 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	07-Apr-2022	PREVIOUS CALIBRATION DATE:	10-Mar-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	24.2
LOCATION:	986C	BAROMETRIC (mBar):	951
PURPOSE	Routine	START TIME (MST):	09:51
PERFORMED BY:	Limin Li	END TIME (MST):	13:10

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1193585652	1285
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.999	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):	1700		LOW ID:	n/a
MFC CALIBRATION DATE:	23-Mar-2022	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
	9.46	11.24	20.70		9.46	11.24	20.70

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	14.14	13.08	27.22	14.62	13.44	28.06	1.032	1.024	1.028	0.998	0.997	0.998
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.35	6.76	14.11	n/a	n/a	n/a	0.993	0.991	0.992
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.68	3.41	7.09	n/a	n/a	n/a	0.991	0.982	0.987

LINEAR REGRESSION ANALYSIS:

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

Comments:

n/a

Use Zero Chrom? **No**

Station: PRAMP 986c Daily: 07-04-2022 Type: AVG 1 Min. [1 Min.]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	21-Apr-2022	PREVIOUS CALIBRATION DATE:	07-Apr-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	22.9
LOCATION:	986C	BAROMETRIC (mBar):	936
PURPOSE	Repeat	START TIME (MST):	08:29
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	13:28

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1193585652	1134.9
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.998	0.997	0.998

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Environics	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2000	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	1991	ID:	5004	CYLINDER (psi):	1620		LOW ID:	n/a
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	Internal	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
	9.46	11.24	20.70		8.61	10.20	19.01

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
3004		3004	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
2933	72.03	3005	14.57	13.38	27.95	15.55	14.15	29.70	14.59	13.36	27.95	0.937	0.946	0.941	0.999	1.002	1.000
2968	35.99	3004	7.28	6.69	13.97	n/a	n/a	n/a	7.24	6.71	13.95	n/a	n/a	n/a	1.006	0.997	1.002
2985	17.98	3003	3.64	3.34	6.98	n/a	n/a	n/a	3.63	3.39	7.02	n/a	n/a	n/a	1.003	0.986	0.995

LINEAR REGRESSION ANALYSIS:

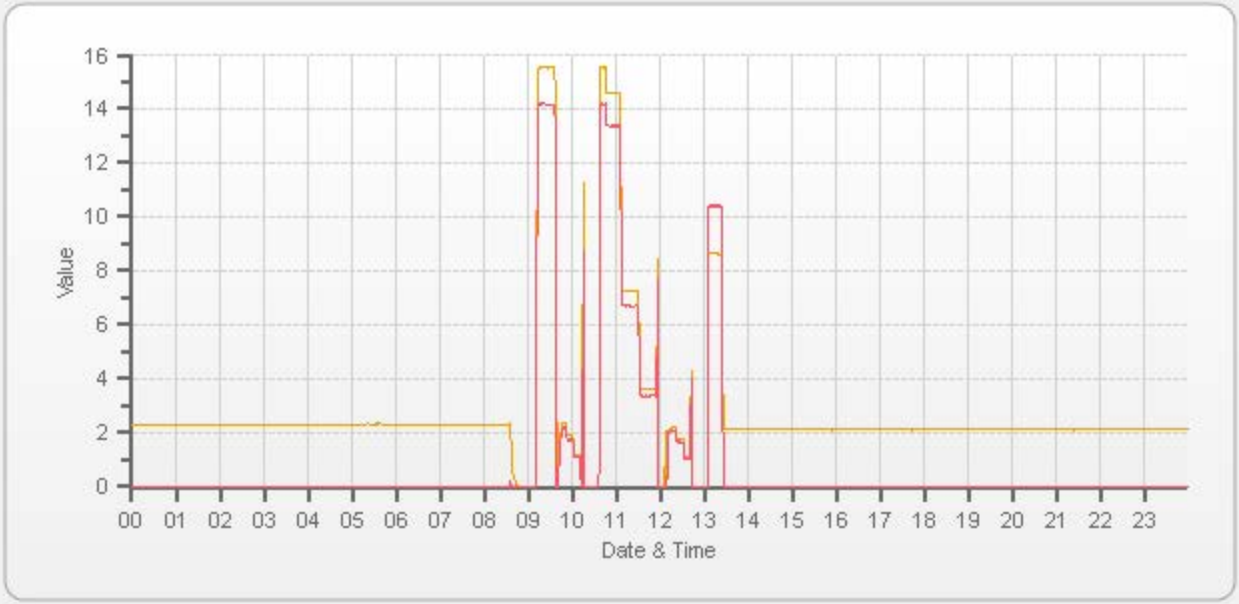
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.001	-0.1%
NMHC	1.000	0.997	0.1%
THC	1.000	0.999	0.0%

Comments:

Repeat calibration - no issues.

Use Zero Chrom? **No**

Station: PRAMP 986c Daily: 21-04-2022 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	April 7, 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:	March 10, 2022	Tip test: 07:44-07:45am
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
Are the bucket drain holes clean?	no	
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:	March 10, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (^{o}C):	2.7
Station - Ambient Temperature (^{o}C):	2.1
Temperature Difference (^{o}C):	0.6

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	March 10, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Feb 22, 2023	
Reference Pressure - Units/Reading:	millibar	951.9
Station Pressure - Units/Reading:	millibar	951.3
Pressure Tolerance +/- 15% of error:	809 - 1095	0.06%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	March 10, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	55.34	
Station Hygrometer % RH- Reading:	52.70	
RH Tolerance +/- 15% of difference:	47.04 - 63.64	4.8%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	March 10, 2022	Previous check date:	March 10, 2022
Wind Speed Observed (kph):	5~15	Wind Direction Observed:	SE
Wind speed on Data Logger (kph):	10.2	Wind Direction on Data Logger:	SE
		Wind Direction Pass/Fail?:	Pass

Comments

Meteorological System Checklist

Date:	April 12, 2022		
Technician:	Chris Wesson		
Station:	PRAMP 986c		
Unit:	**Make:**	**Model:**	**Serial #:**
Temperature Sensor:	Rotronic	HC2-S3	61116376
Barometric Pressure Sensor:	MetOne	092	Y23358
Relative Humidity Sensor:	Rotronic	HC2-S3	61116376
AMBIENT TEMPERATURE SENSOR CHECK			
Previous check date:	April 7, 2022		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	F.S. 160348895 expires Sep 4, 2022		
Reference Temperature (^{o}C):	-10.6		
Station - Ambient Temperature (^{o}C):	-10.2		
Temperature Difference (^{o}C):	-0.4		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	April 7, 2022		
Reference Barometer ID:	Brunton 05535 Expires Feb 17, 2022		
Reference Pressure - Units/Reading:	millibar	959.5	
Station Pressure - Units/Reading:	millibar	959.6	
Pressure Tolerance +/- 15% of error:	816 - 1103	-0.01%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	April 7, 2022		
Reference Hygrometer ID:	F.S. 160348895 expires Sep 4, 2022		
Reference Hygrometer % RH- Reading:	55.70		
Station Hygrometer % RH- Reading:	54.90		
RH Tolerance +/- 15% of difference:	47.35 - 64.06	1.4%	

Comments

Check after working on serial interface box

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)

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	986C	**Reviewed By:**	Ferdinand Roy
Audit Date:	April 11, 2022	**Start/End Time (mst):**	17:40/18:34
Calibration Purpose:	shut down	**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 #:	174795	**Direction Voltage Output Range:**	n/a
Previous Cal/Audit Date:	July 3, 2021	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802A sn/id# R9133 expires Aug06, 2022

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

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.3	18.3	1.007
2000	36.9	36.7	36.7	1.004
3000	55.3	55.1	55.1	1.003
4000	73.7	73.6	73.6	1.002
5000	92.2	92.4	92.0	0.999
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	184.4	1.000
		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	29	332	1.0	-2.0	1.5
60	300	57	303	3.0	-3.0	3.0
90	270	86	273	4.0	-3.0	3.5
120	240	115	241	5.0	-1.0	3.0
150	210	144	206	6.0	4.0	5.0
180	180	173	173	7.0	7.0	7.0
210	150	206	144	4.0	6.0	5.0
240	120	242	116	-2.0	4.0	3.0
270	90	274	86	-4.0	4.0	4.0
300	60	304	57	-4.0	3.0	3.5
330	30	332	28	-2.0	2.0	2.0
355	0	354	1	1.0	1.0	1.0

Comments:

Direction output unstable. Will replace sensor

Meteorological Sensor Audit/Calibration

Location Information

Company:	PRAMP	**Performed By:**	Chris Wesson
Audit Location:	986C	**Reviewed By:**	Ferdinand Roy
Audit Date:	April 12, 2022	**Start/End Time (mst):**	10:29/11:20
Calibration Purpose:	installation	**Weather Conditions:**	Light snow

Wind Sensor Information

Sensor ID Data:		**Sensor Outputs:**	
Sensor Make:	RM Young	**Velocity Voltage Output Range:**	n/a
Sensor Model:	05305AQ	**Velocity Unit Output Range:**	0-180
Serial #:	180340	**Direction Voltage Output Range:**	n/a
Previous Cal/Audit Date:	n/a	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18802A sn/id# R9133 expires Aug06, 2022

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

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.3	18.3	1.007
2000	36.9	36.7	36.7	1.004
3000	55.3	55.1	55.5	1.000
4000	73.7	73.9	73.6	1.000
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	147.7	1.000
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=**	**1.001**

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	31	330	-1.0	0.0	0.5
60	300	62	300	-2.0	0.0	1.0
90	270	91	271	-1.0	-1.0	1.0
120	240	120	239	0.0	1.0	0.5
150	210	150	209	0.0	1.0	0.5
180	180	179	178	1.0	2.0	1.5
210	150	209	150	1.0	0.0	0.5
240	120	240	120	0.0	0.0	0.0
270	90	269	90	1.0	0.0	0.5
300	60	300	61	0.0	-1.0	0.5
330	30	330	31	0.0	-1.0	0.5
355	0	354	0	1.0	0.0	0.5
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**0.7**

Comments:

No issues

Peace River Area Monitoring Program

APRIL 2022

Ambient Air Monitoring Calibration Report

- RENO STATION-

CAL-PRAMP-202204-01563

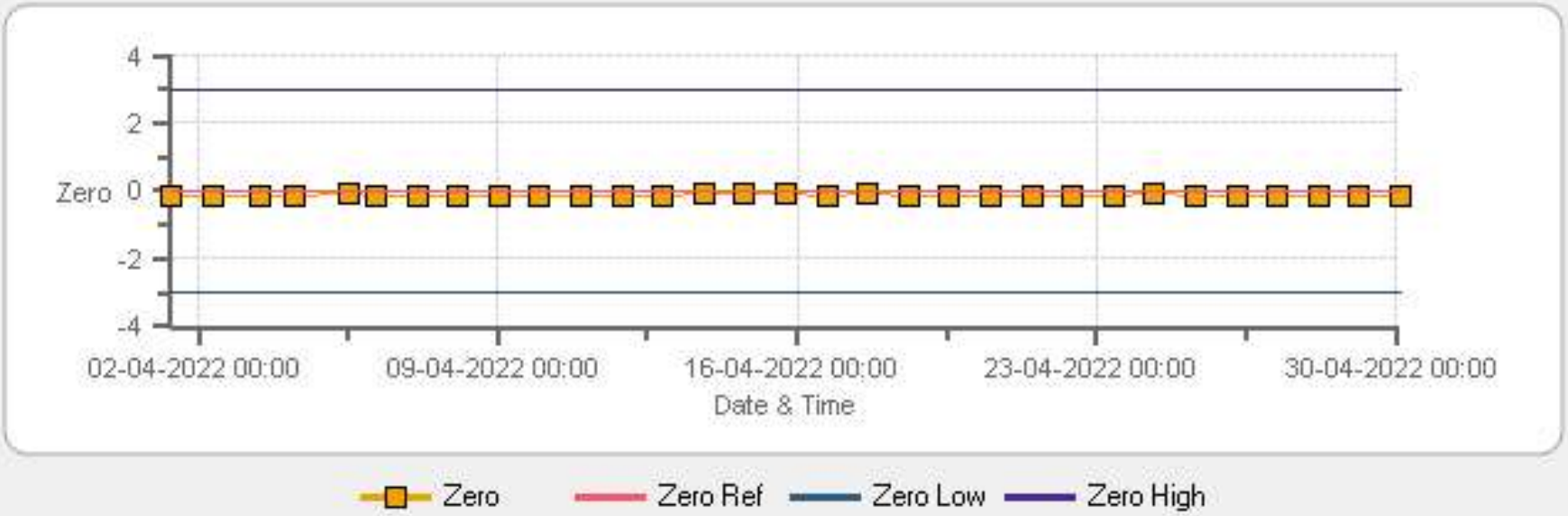
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

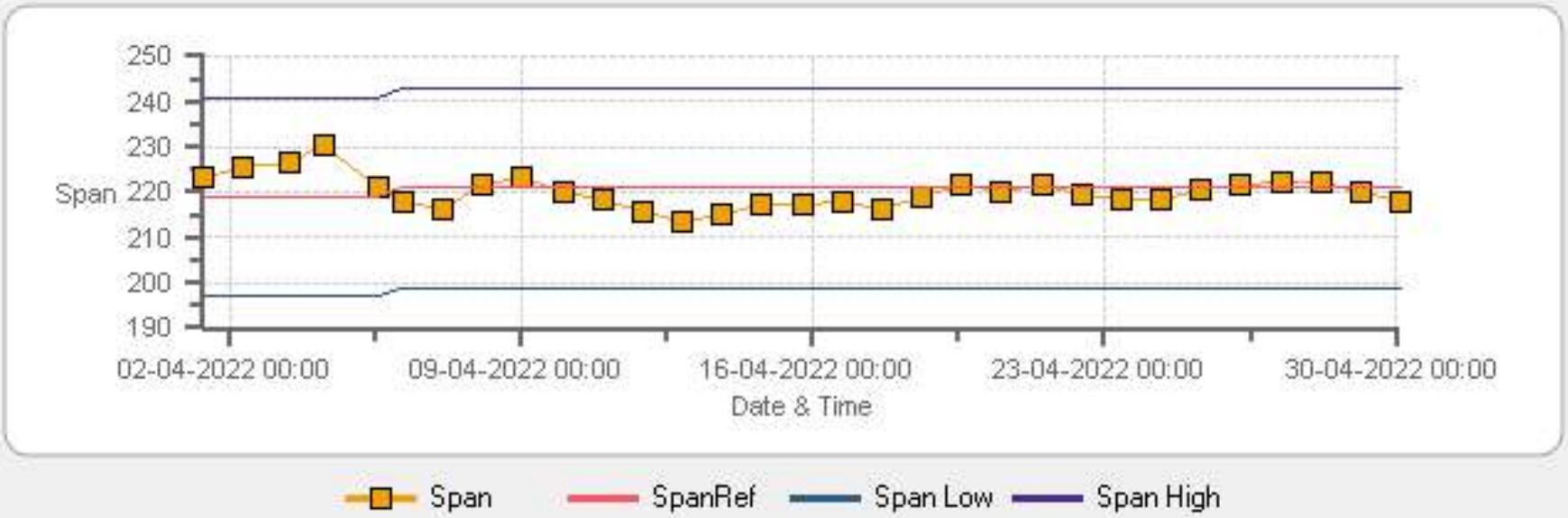
May 25, 2022

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

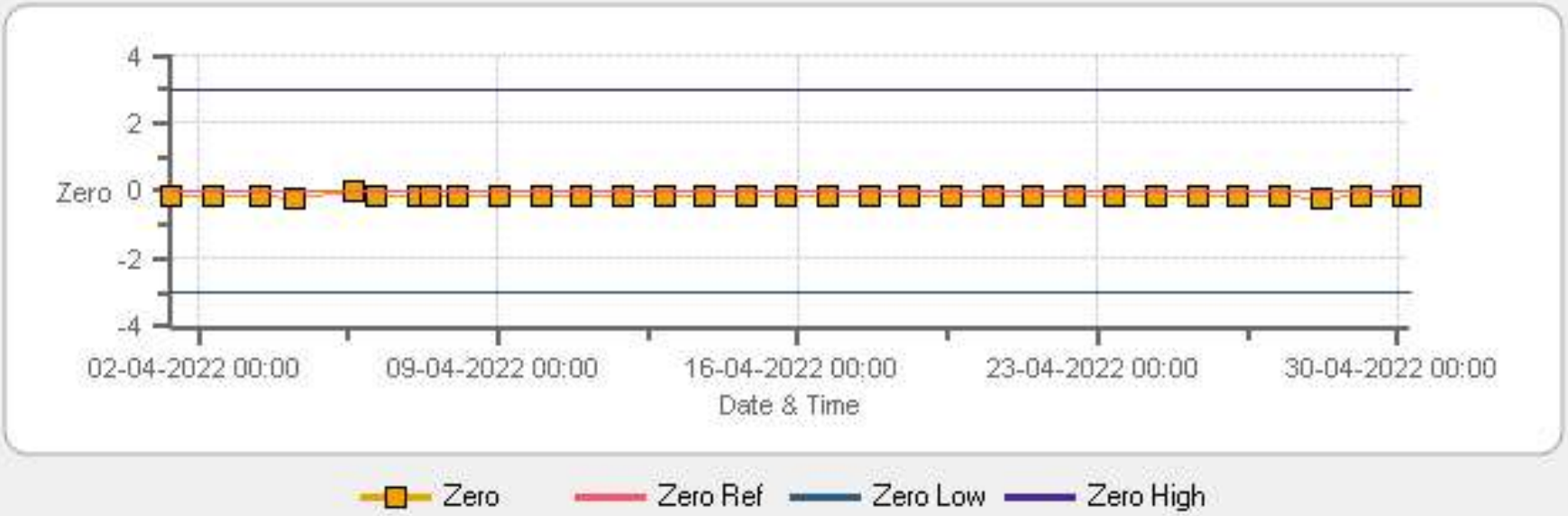
SO2[ppb] Calibration: PRAMP RENO Monthly: 04-2022 Type: SpanAndZero - Zero



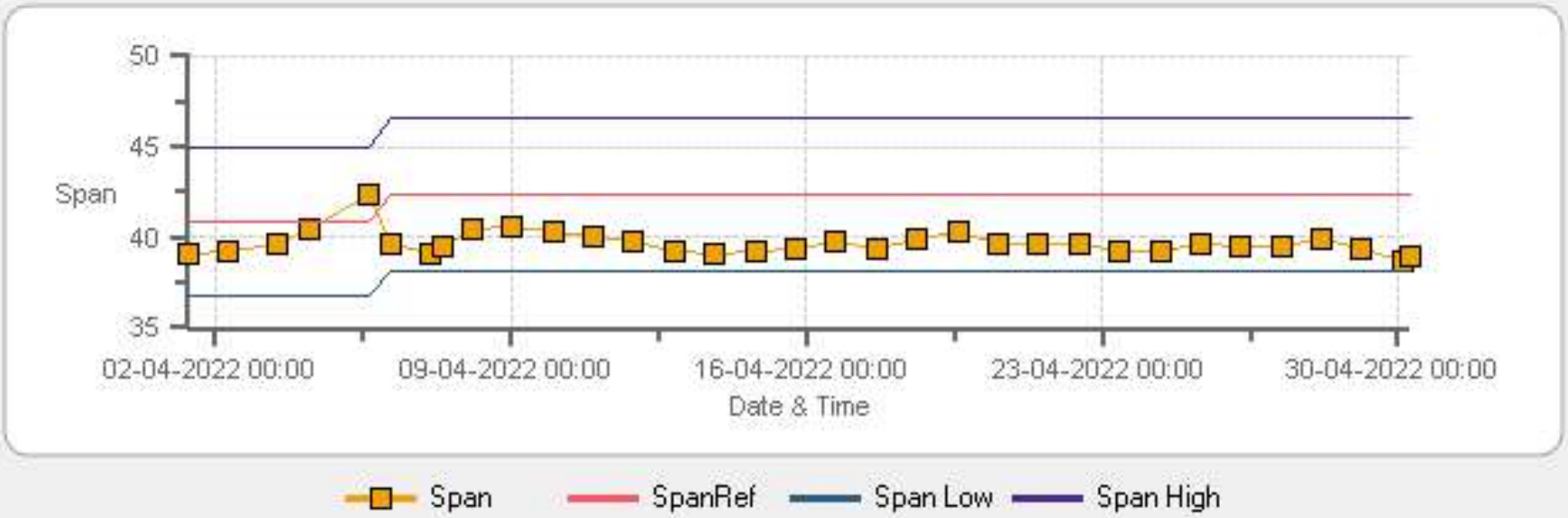
SO2[ppb] Calibration: PRAMP RENO Monthly: 04-2022 Type: SpanAndZero - Span



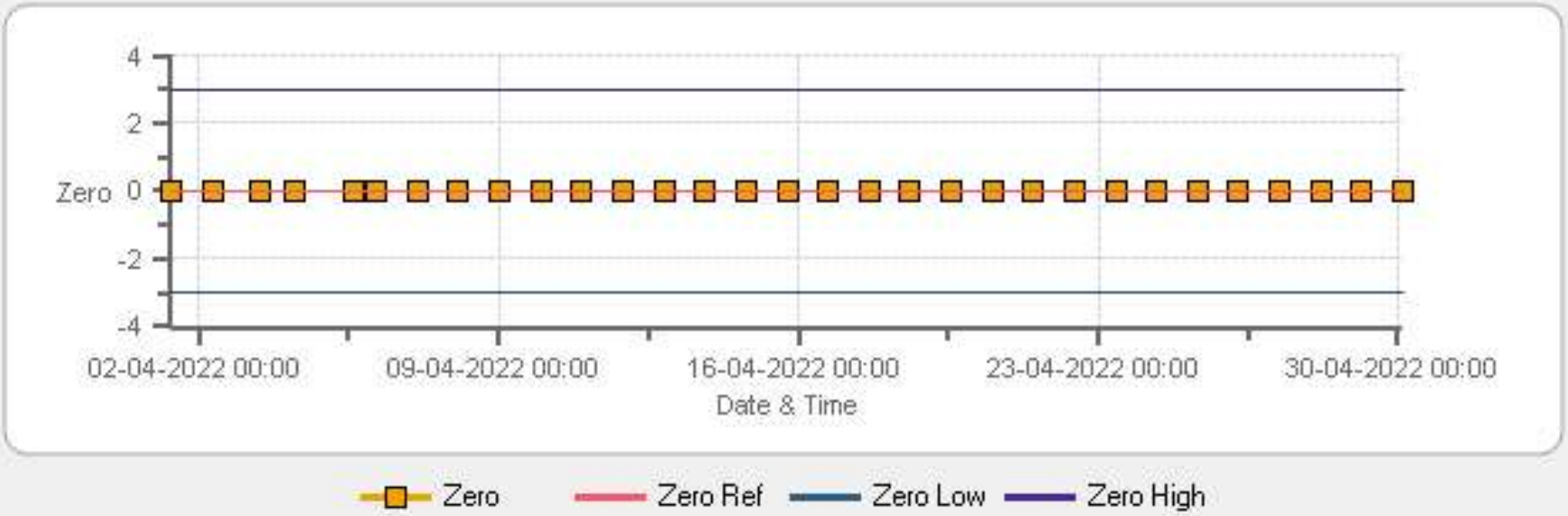
TRS[ppb] Calibration: PRAMP RENO Monthly: 04-2022 Type: SpanAndZero - Zero



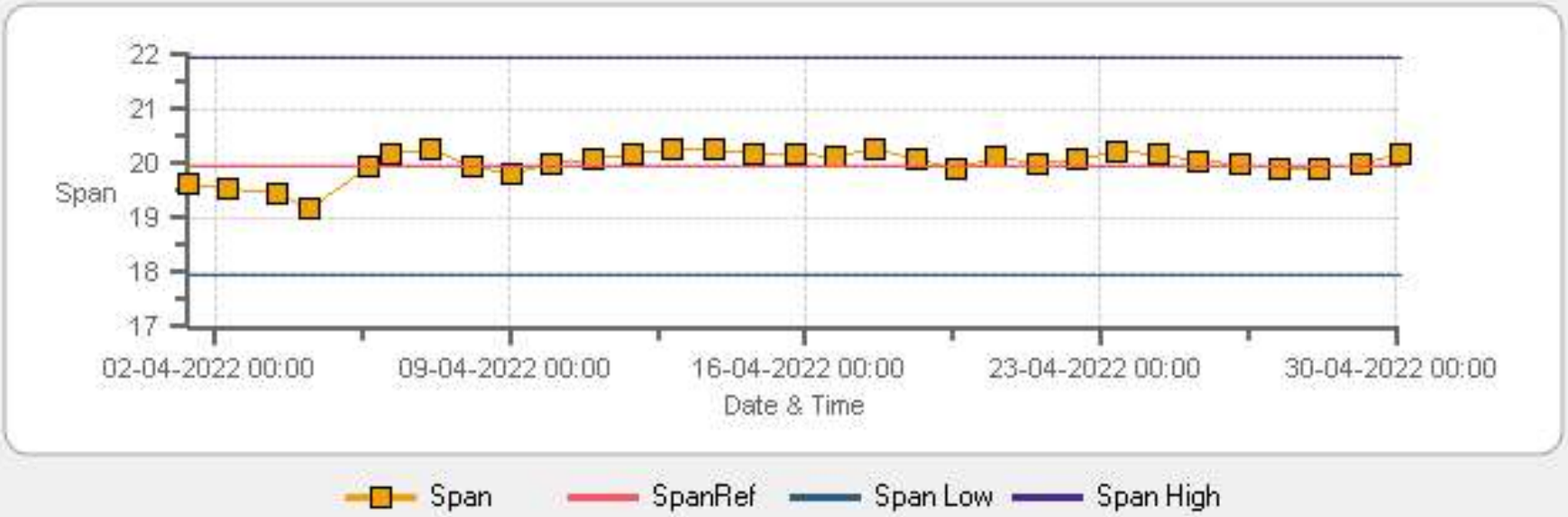
TRS[ppb] Calibration: PRAMP RENO Monthly: 04-2022 Type: SpanAndZero - Span

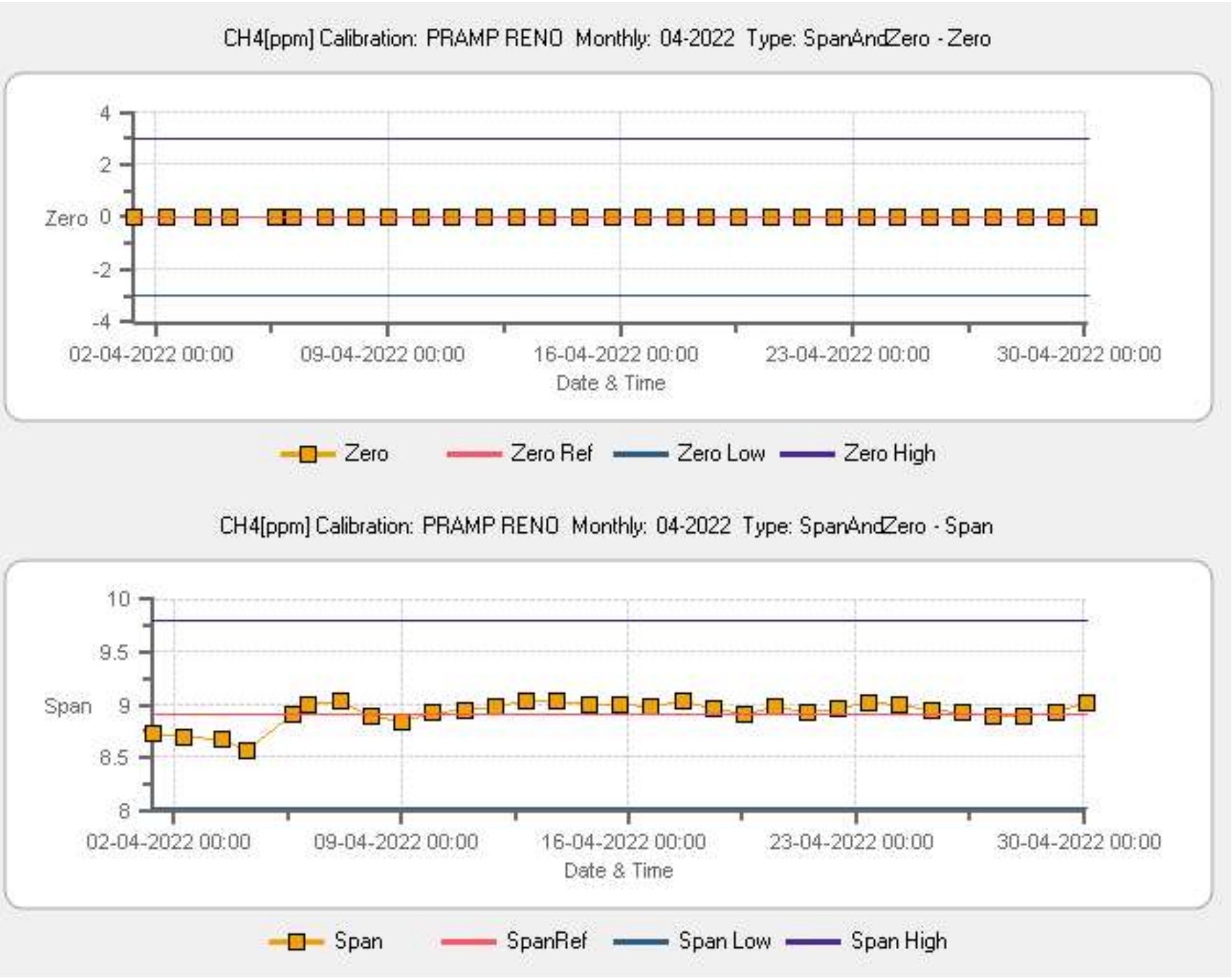


THC55[ppm] Calibration: PRAMP RENO Monthly: 04-2022 Type: SpanAndZero - Zero

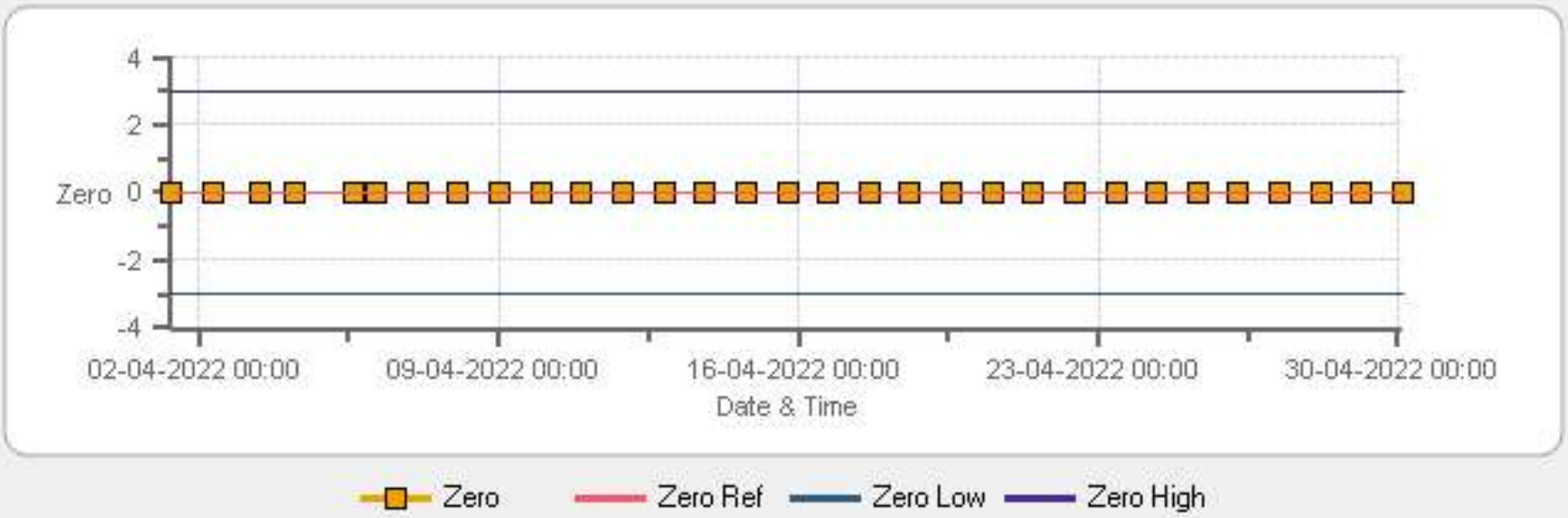


THC55[ppm] Calibration: PRAMP RENO Monthly: 04-2022 Type: SpanAndZero - Span

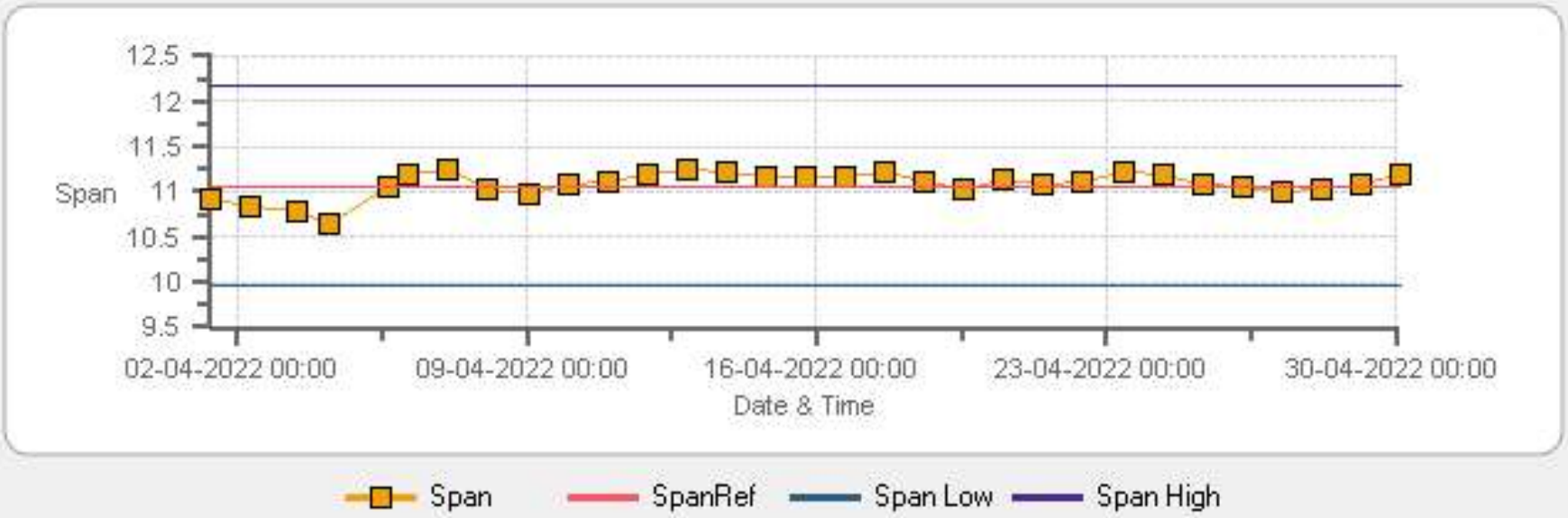



CH4[ppm] Calibration: PRAMP RENO Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: PRAMP RENO Monthly: 04-2022 Type: SpanAndZero - Span
10
9.5
Span 9
8.5
8
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

NMHC[ppm] Calibration: PRAMP RENO Monthly: 04-2022 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP RENO Monthly: 04-2022 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	05-Apr-2022	PREVIOUS CALIBRATION DATE:	08-Mar-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.1
LOCATION:	Reno	BAROMETRIC (mBar):	928
PURPOSE	Routine	START TIME (MST):	09:04
PERFORMED BY:	Limin Li	END TIME (MST):	13:06

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	12101910505	FLOW (mL/min)	441
INITIAL		FINAL	
BKG/OFFSET	1.06	BKG/OFFSET	1.07
COEF/SLOPE	0.944	COEF/SLOPE	0.929
Expected (reference) Value	218.7	Expected (reference) Value	220.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	701
ID:	17200415	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	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):	800	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	385.5	380	0.986	1.000
5979	20.90	6000	179.74	n/a	180.5	n/a	0.996
5990	10.50	6000	90.30	n/a	90.2	n/a	1.001

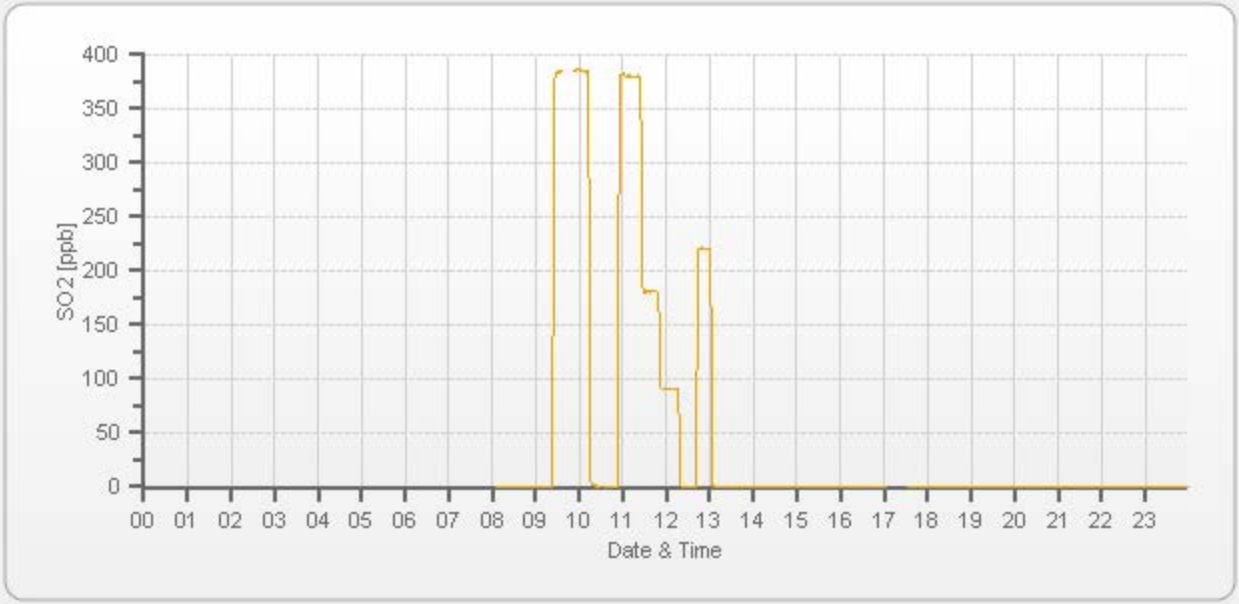
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Change sample filter.
Datalogger fails from 09:37 to 09:53am. Reset datalogger, then ok.

SO2[ppb] Station: PRAMP RENO Daily: 05-04-2022 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	05-Apr-2022	PREVIOUS CALIBRATION DATE:	08-Mar-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.1
LOCATION:	Reno	BAROMETRIC (mBar):	928
PURPOSE	Routine	START TIME (MST):	09:10
PERFORMED BY:	Limin Li	END TIME (MST):	15:12

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	12101910504	FLOW (mL/min)	397
INITIAL		FINAL	
BKG/OFFSET	1.02	BKG/OFFSET	1.04
COEF/SLOPE	0.923	COEF/SLOPE	0.949
Expected (reference) Value	40.88	Expected (reference) Value	42.37

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	6100	MODEL:	701
ID:	5212	ID:	1105
MFC CALIBRATION DATE:	23-Mar-2022	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):	1700	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:	09:31	SO2 Conc (ppb)	380
END TIME:	10:10	Analyzer Response (ppb)	0.4

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
7500		7500	0.00	-0.2	0		
7443	57.35	7500	78.00	77.76	78	1.000	1.000
7472	27.94	7500	38.00	n/a	38.81	n/a	0.979
7486	13.97	7500	19.00	n/a	19.47	n/a	0.976

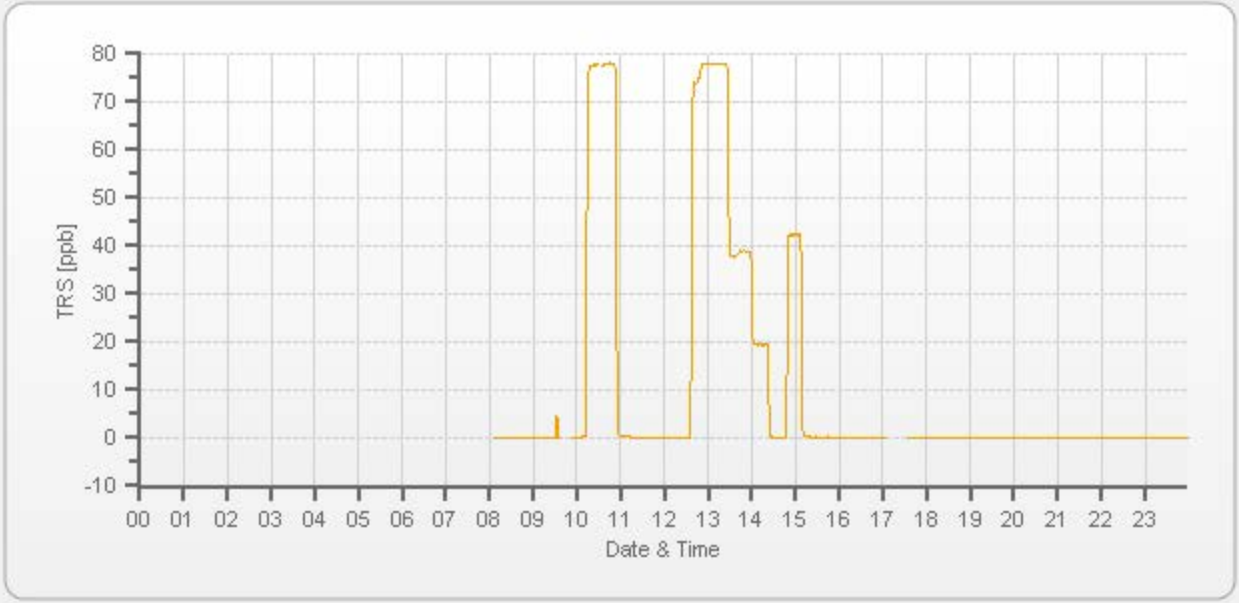
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.4%

COMMENTS:

Converter: CDNova CDN-101 #590.
Change sample filter.
Datalogger fails from 09:37 to 09:53am. Reset datalogger, then ok.

TRS[ppb] Station: PRAMP RENO Daily: 05-04-2022 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	05-Apr-2022	PREVIOUS CALIBRATION DATE:	08-Mar-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	21.8
LOCATION:	Reno	BAROMETRIC (mBar):	931
PURPOSE	Routine	START TIME (MST):	12:22
PERFORMED BY:	Limin Li	END TIME (MST):	15:43

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	12101910497	1183
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.999	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:	23-Mar-2022	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
	8.91	11.06	19.97		8.91	11.06	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	14.27	13.16	27.43	14.62	13.43	28.05	1.023	1.018	1.020	0.998	0.998	0.998
3458	42.00	3500	7.30	6.70	14.00	n/a	n/a	n/a	7.30	6.75	14.05	n/a	n/a	n/a	0.999	0.992	0.996
3479	21.00	3500	3.65	3.35	7.00	n/a	n/a	n/a	3.64	3.39	7.03	n/a	n/a	n/a	1.002	0.988	0.995

LINEAR REGRESSION ANALYSIS:

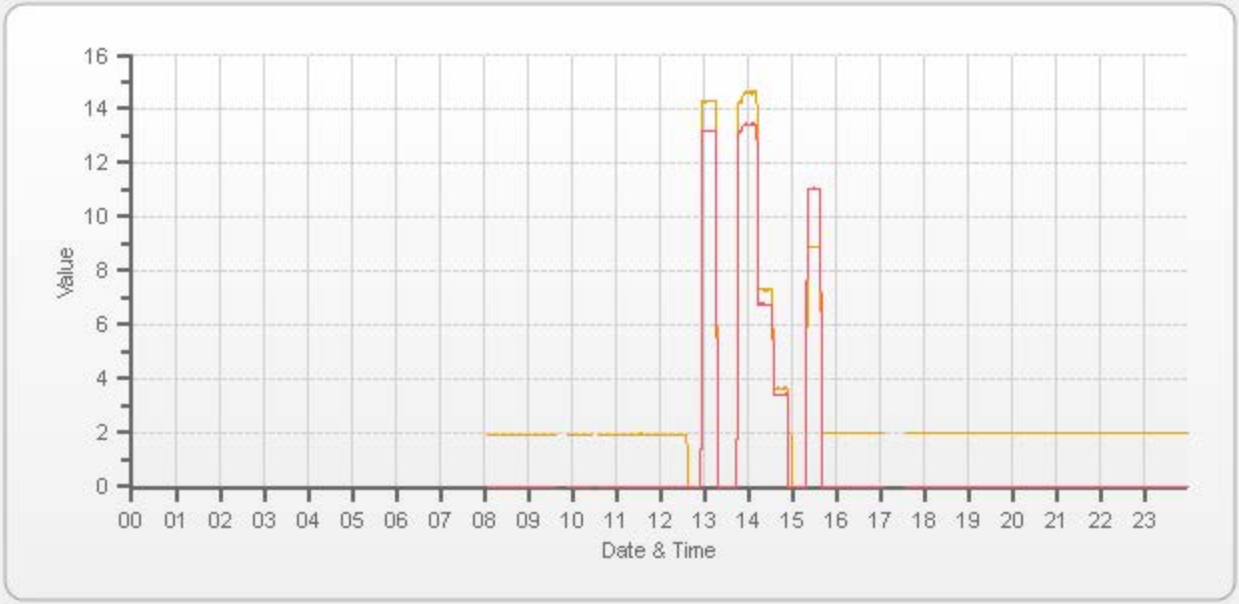
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.002	0.0%
NMHC	1.000	1.002	0.1%
THC	1.000	1.002	0.0%

Comments:

Sample filter changed. Deionizer:873 hours.

Use Zero Chrom? **No**

Station: PRAMP RENO Daily: 05-04-2022 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	April 5, 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:	March 8, 2022	Tiptest = 12:06pm.
Is the sensor Level?	yes	
Is the heater operating properly?	yes	
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:	March 8, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (^{o}C):	6.1
Station - Ambient Temperature (^{o}C):	5.8
Temperature Difference (^{o}C):	0.3

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	March 8, 2022	
Reference Barometer ID:	BRUNTON #5490, Expire: Feb 22, 2023	
Reference Pressure - Units/Reading:	millibar	930.3
Station Pressure - Units/Reading:	millibar	931.1
Pressure Tolerance +/- 15% of error:	791 - 1070	-0.09%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	March 8, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022	
Reference Hygrometer % RH- Reading:	44.20	
Station Hygrometer % RH- Reading:	42.90	
RH Tolerance +/- 15% of difference:	37.57 - 50.83	2.9%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	March 8, 2022	Previous check date:	March 8, 2022
Wind Speed Observed (kph):	0~10	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	4.8	Wind Direction on Data Logger:	W
		Wind Direction Pass/Fail?:	Pass

Comments

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

APRIL 2022

Ambient Air Monitoring Calibration Report

- AQHI - GRIMSHAW STATION-

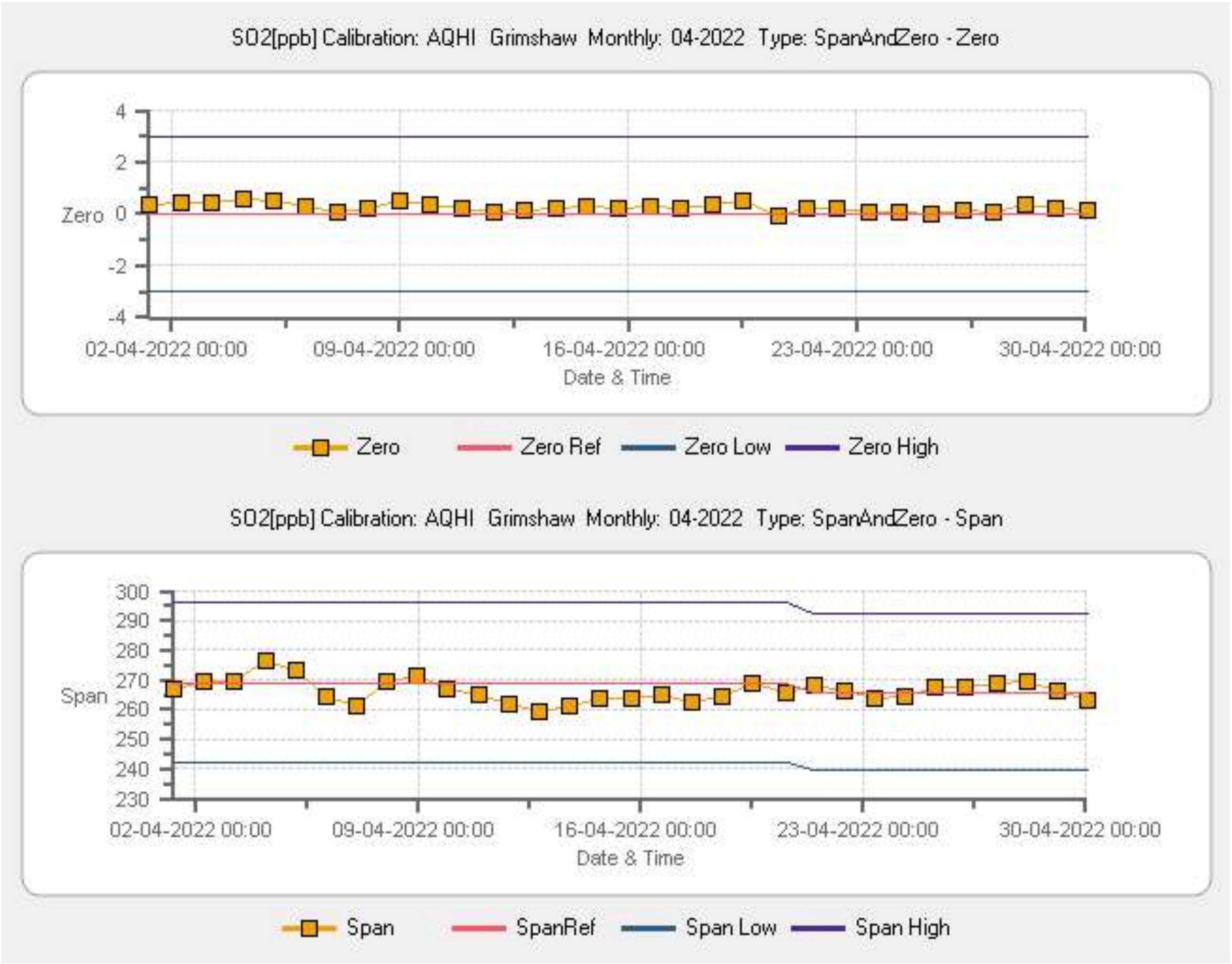
CAL-PRAMP-202204-01689

Operation and Maintenance:
Bureau Veritas Canada

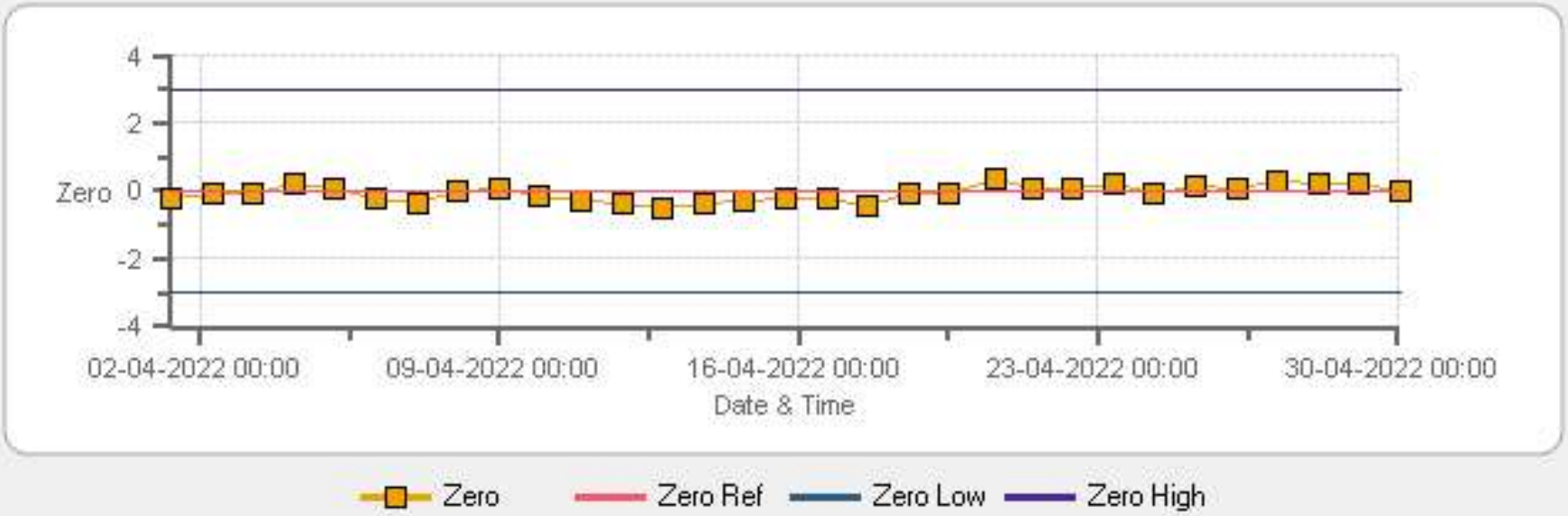
Data Validation and Report:
Bureau Veritas Canada

May 25, 2022

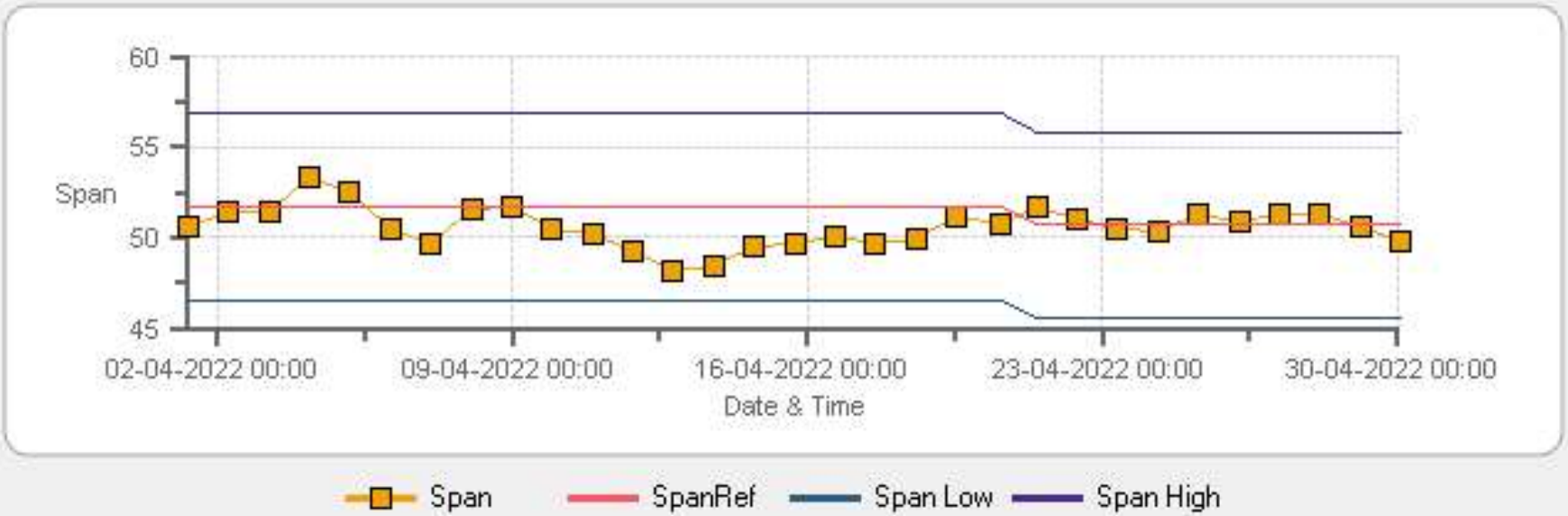
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS


SO2[ppb] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
SO2[ppb] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Span
300
290
280
Span 270
260
250
240
230
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

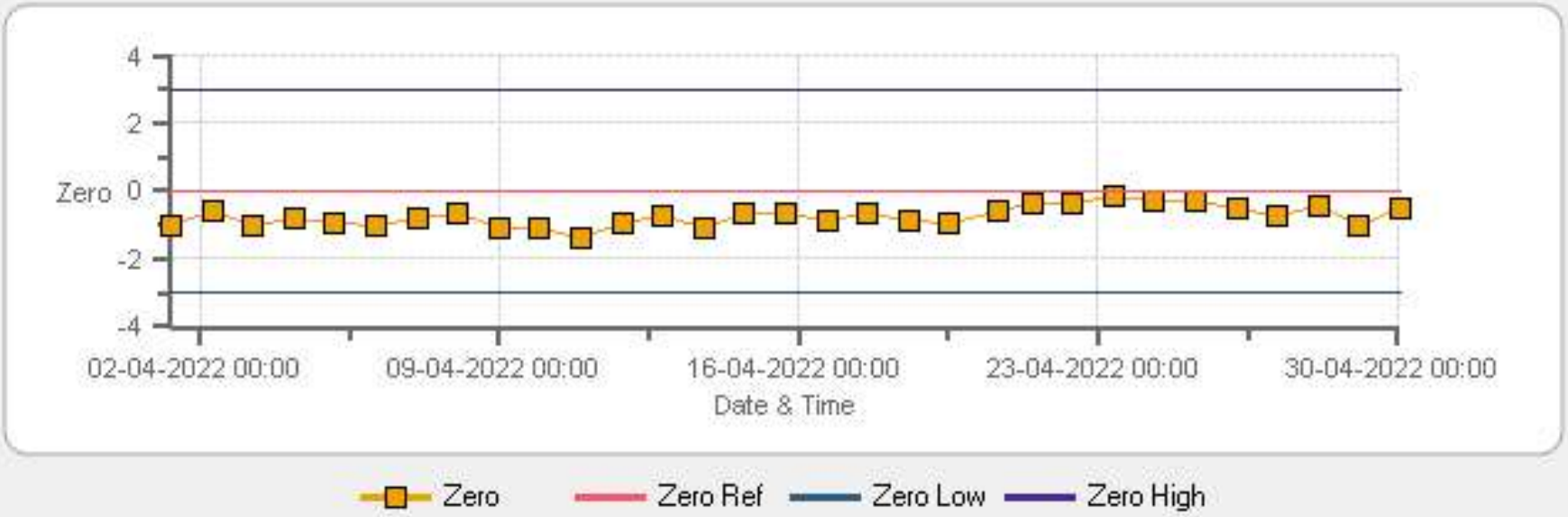
TRS[ppb] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Zero



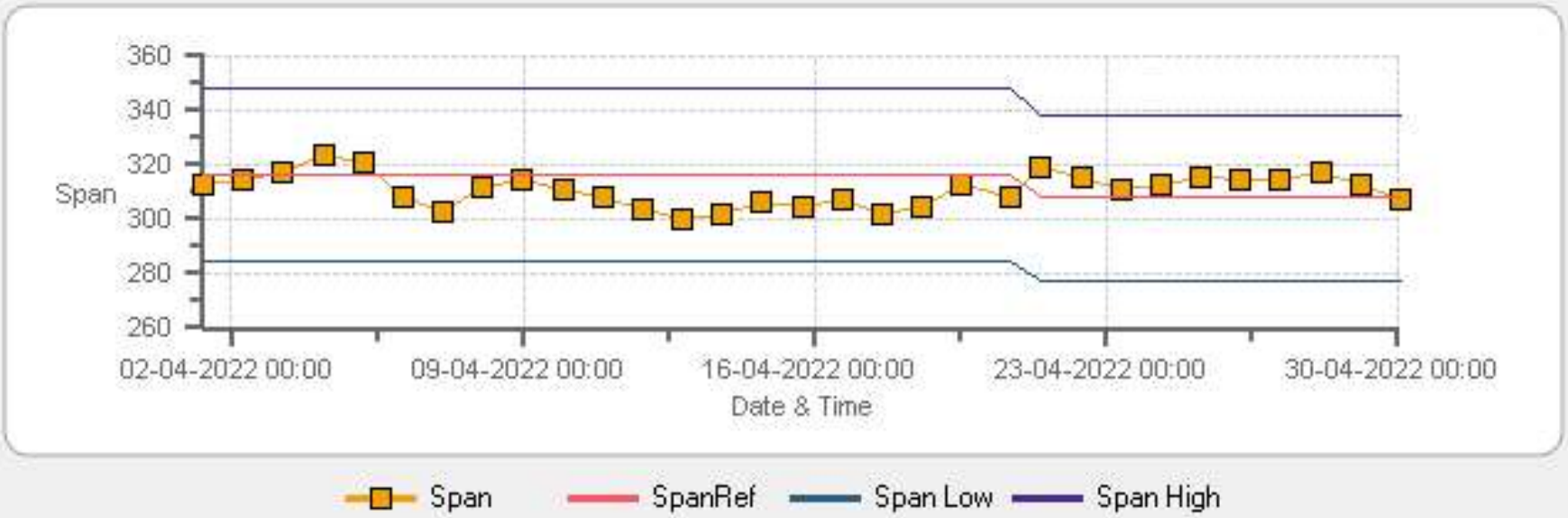
TRS[ppb] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Span



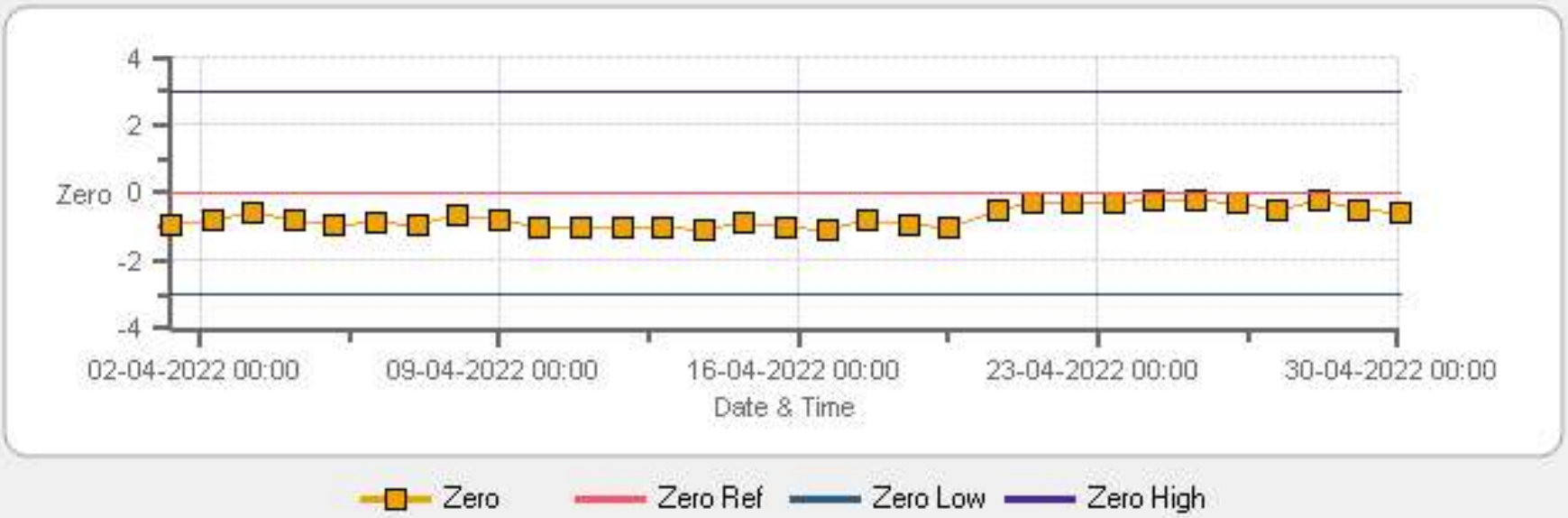
NOX[ppb] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Zero



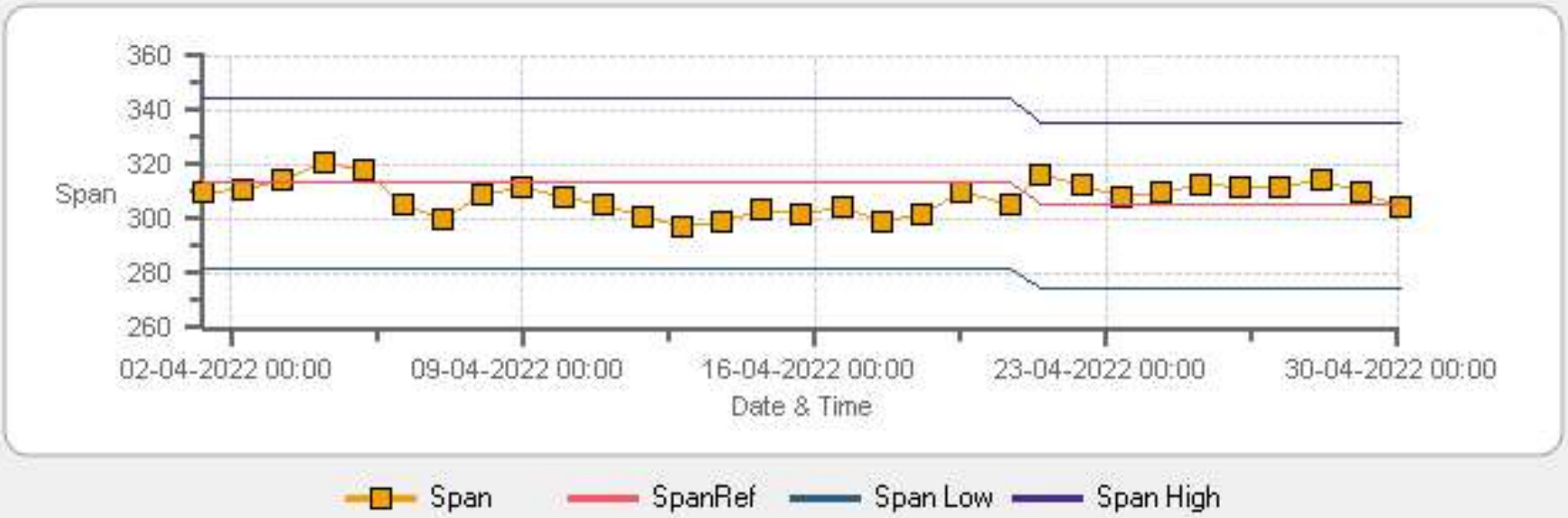
NOX[ppb] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Span

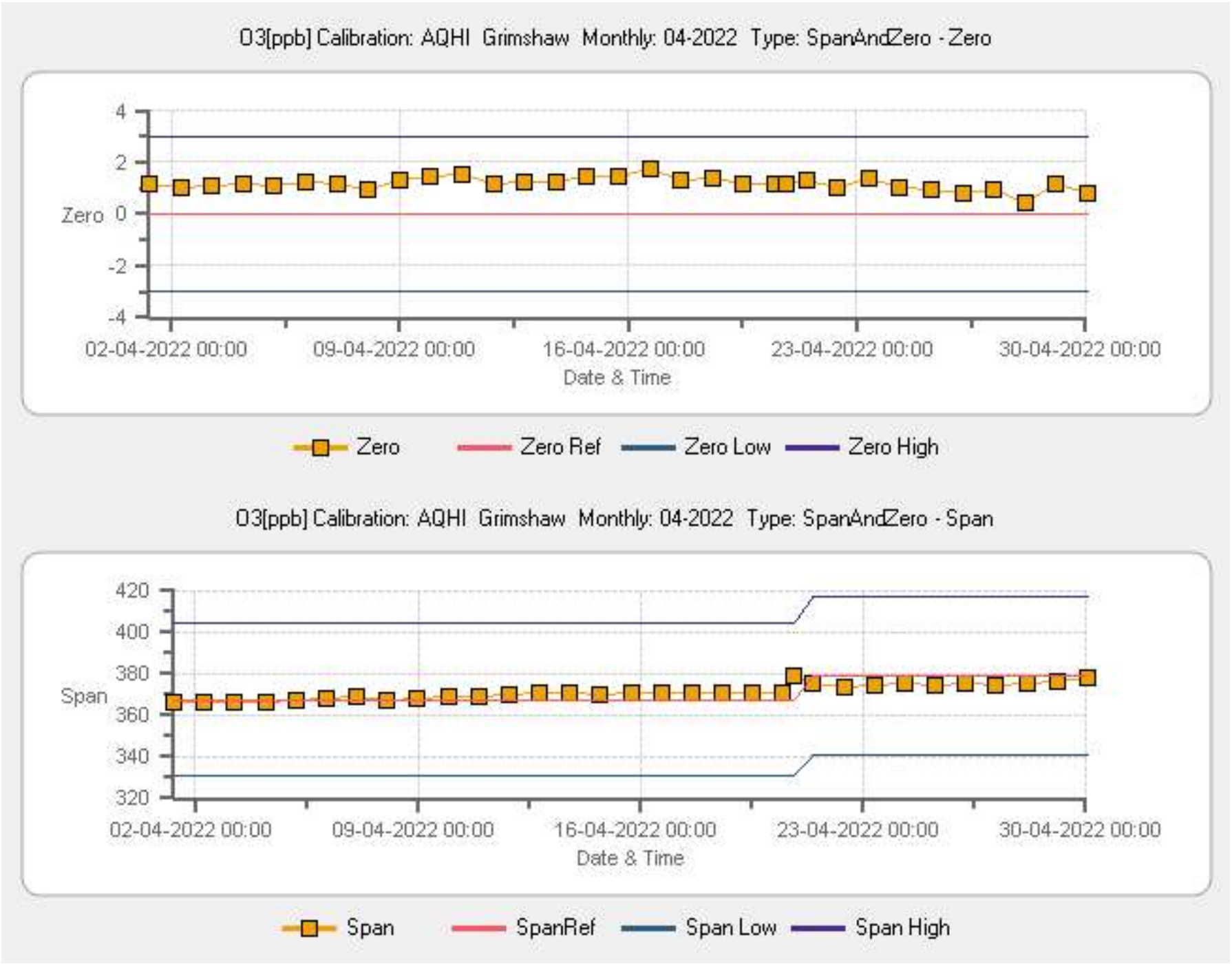


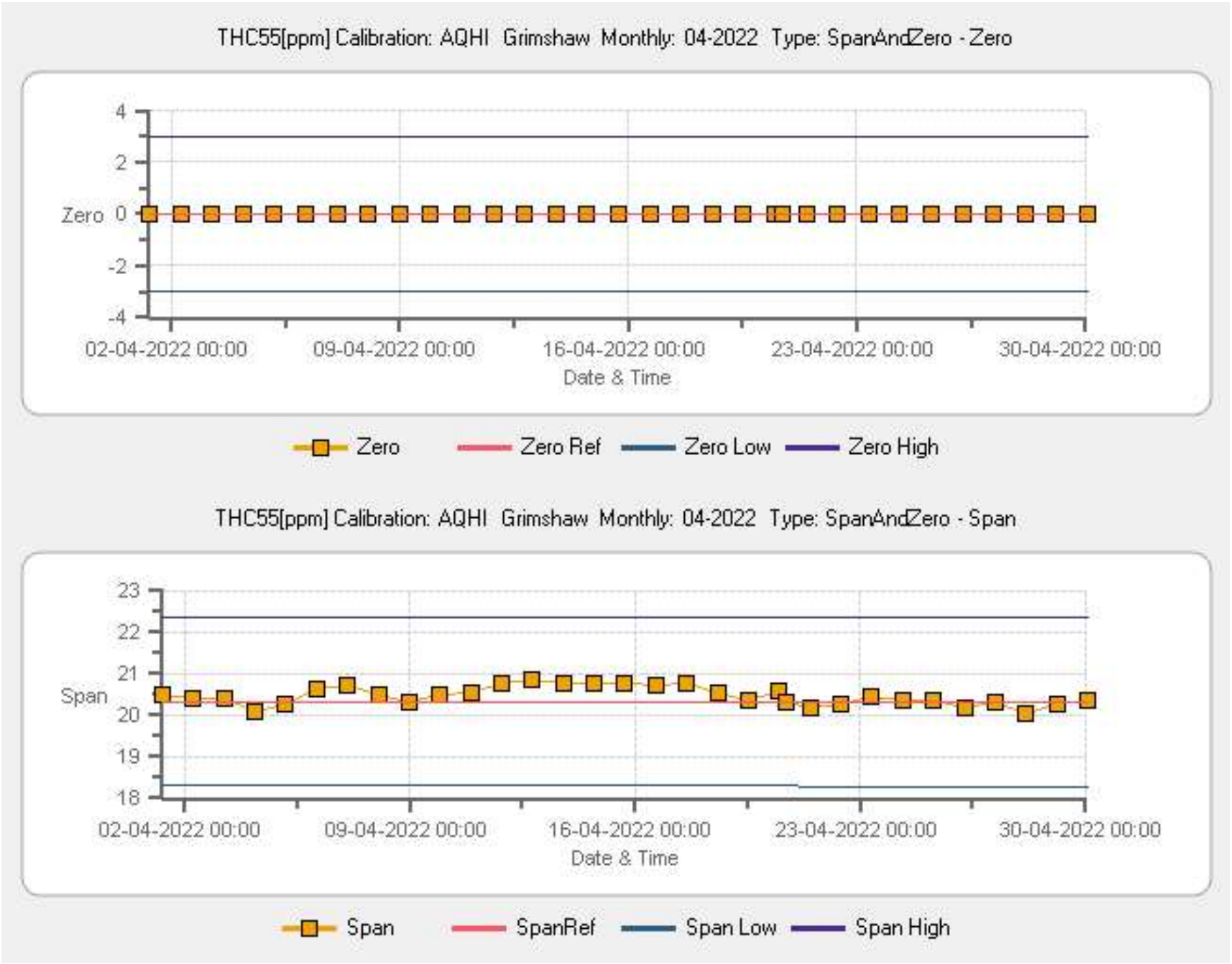
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Zero



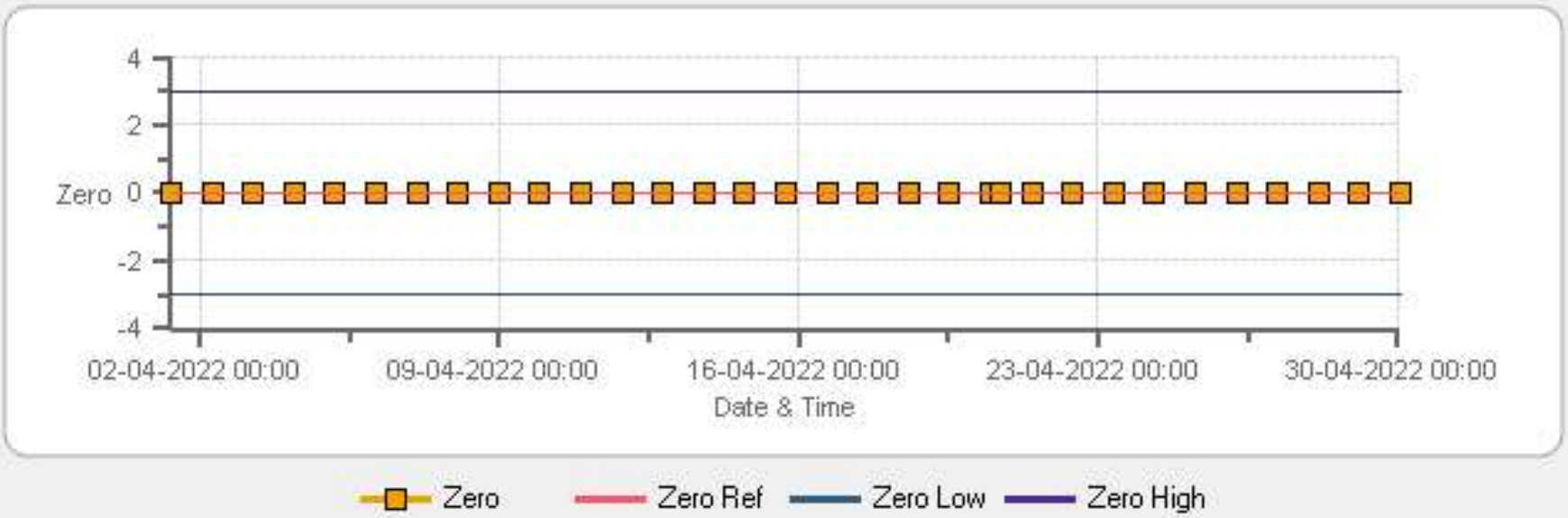
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Span



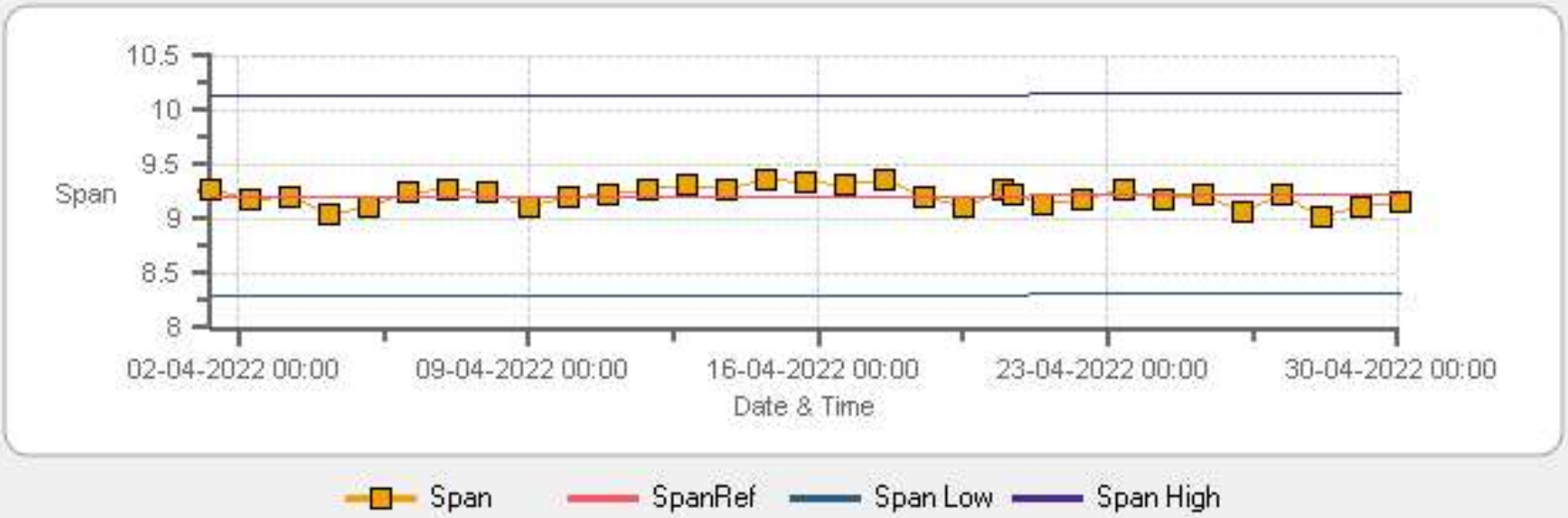

O3[ppb] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
O3[ppb] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Span
420
400
380
Span
360
340
320
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


THC55[ppm] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Span
23
22
21
Span
20
19
18
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

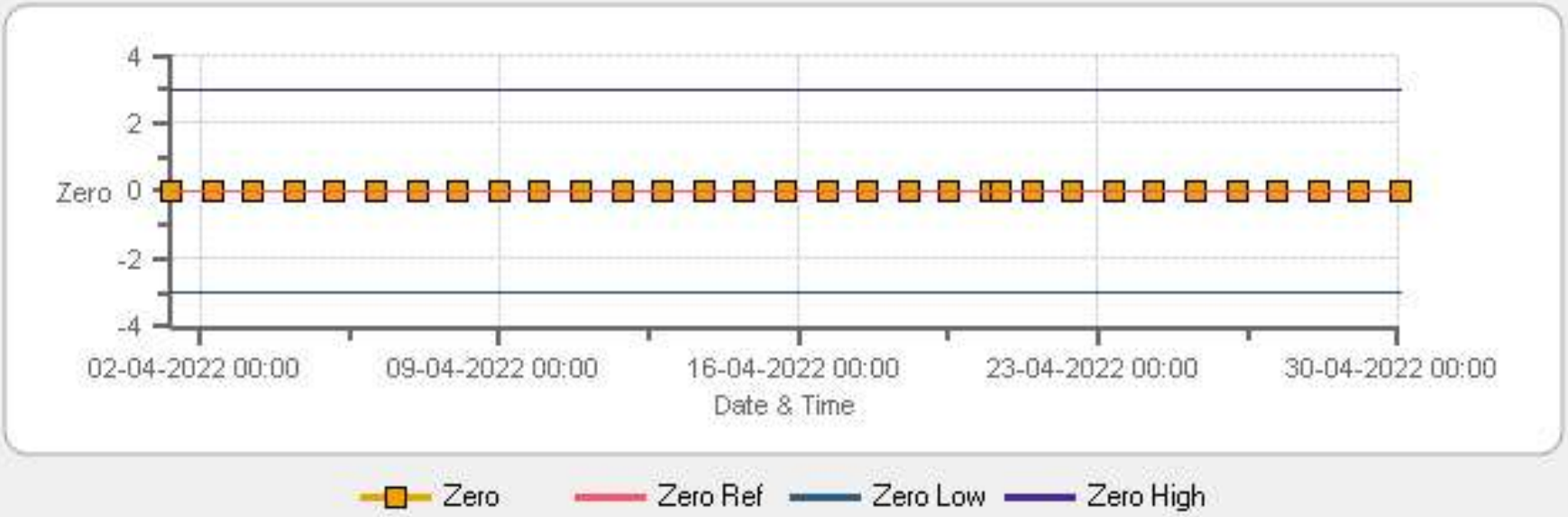
CH4[ppm] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Zero



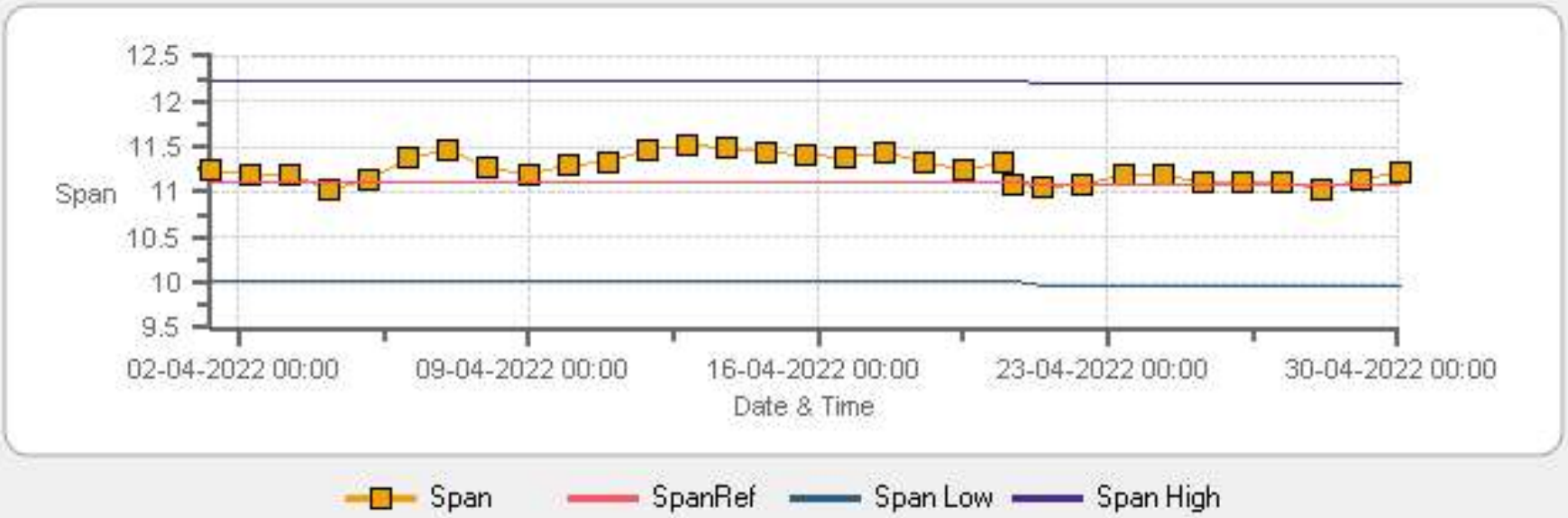
CH4[ppm] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Span



NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 04-2022 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	20-Apr-2022	PREVIOUS CALIBRATION DATE:	23-Mar-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	20.6
LOCATION:	Grimshaw	BAROMETRIC (mBar):	942
PURPOSE	Routine	START TIME (MST):	09:08
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:08

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	532
INITIAL		FINAL	
BKG/OFFSET	24	BKG/OFFSET	24.5
COEF/SLOPE	0.942	COEF/SLOPE	0.943
Expected (reference) Value	269	Expected (reference) Value	265.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	Teledyne
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	5004
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002357	HIGH ID	n/a
CONC (ppm):	24.90	EXPIRY DATE	n/a
CYLINDER (psi):	210	LOW ID	n/a
EXPIRY DATE	13-Nov-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

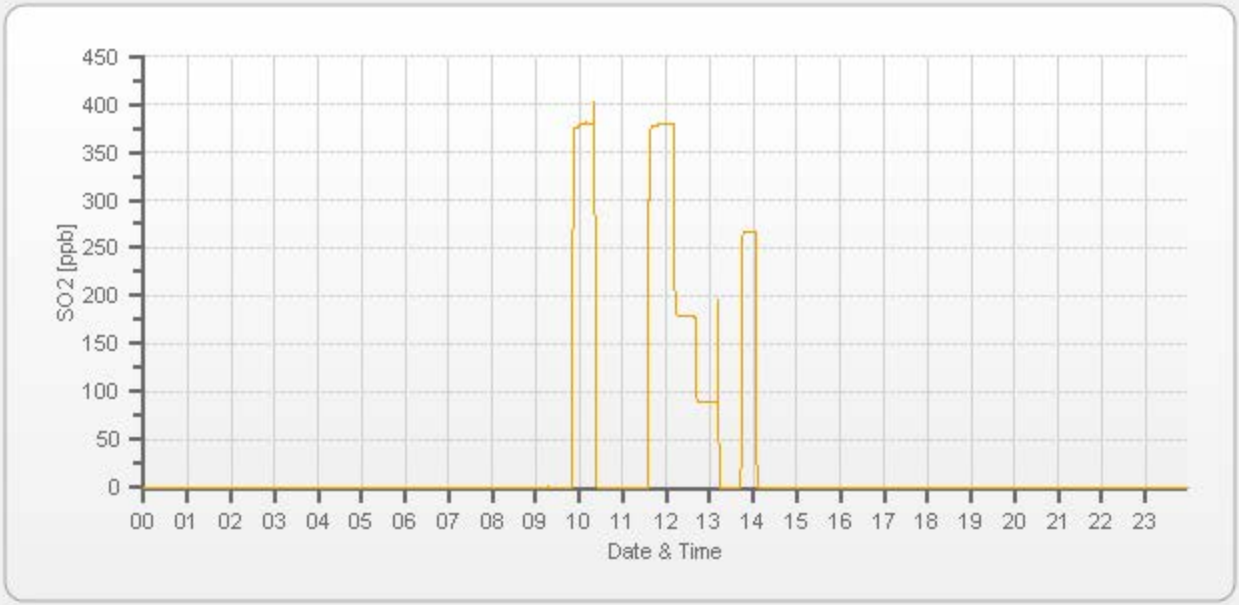
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
2803		2803	0.00	0.3	0		
2761	42.69	2803	379.18	379.9	379.2	0.999	1.000
2784	20.24	2804	179.69	n/a	178.7	n/a	1.006
2793	10.11	2803	89.79	n/a	88.8	n/a	1.011

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.


SO2[ppb] Station: AQHI Grimshaw Daily: 20-04-2022 Type: AVG 1 Min. [1 Min.]
SO2 [ppb]
450
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:	20-Apr-2022	PREVIOUS CALIBRATION DATE:	23-Mar-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	20.6
LOCATION:	Grimshaw	BAROMETRIC (mBar):	942
PURPOSE	Routine	START TIME (MST):	09:08
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:08

ANALYZER:

MAKE/MODEL	Teledyne T100U	RANGE	100 ppb
SERIAL #	132	FLOW (mL/min)	517
INITIAL		FINAL	
BKG/OFFSET	26.4	BKG/OFFSET	26.1
COEF/SLOPE	1.106	COEF/SLOPE	1.109
Expected (reference) Value	51.74	Expected (reference) Value	50.68

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	Teledyne
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	5004
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002472	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	590	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

START TIME:	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		
2803		2803	0.00	-0.38	0		
2780	23.23	2803	77.98	78.25	77.98	0.992	1.000
2793	11.32	2804	38.00	n/a	38.12	n/a	0.997
2798	5.67	2803	19.04	n/a	19.27	n/a	0.988

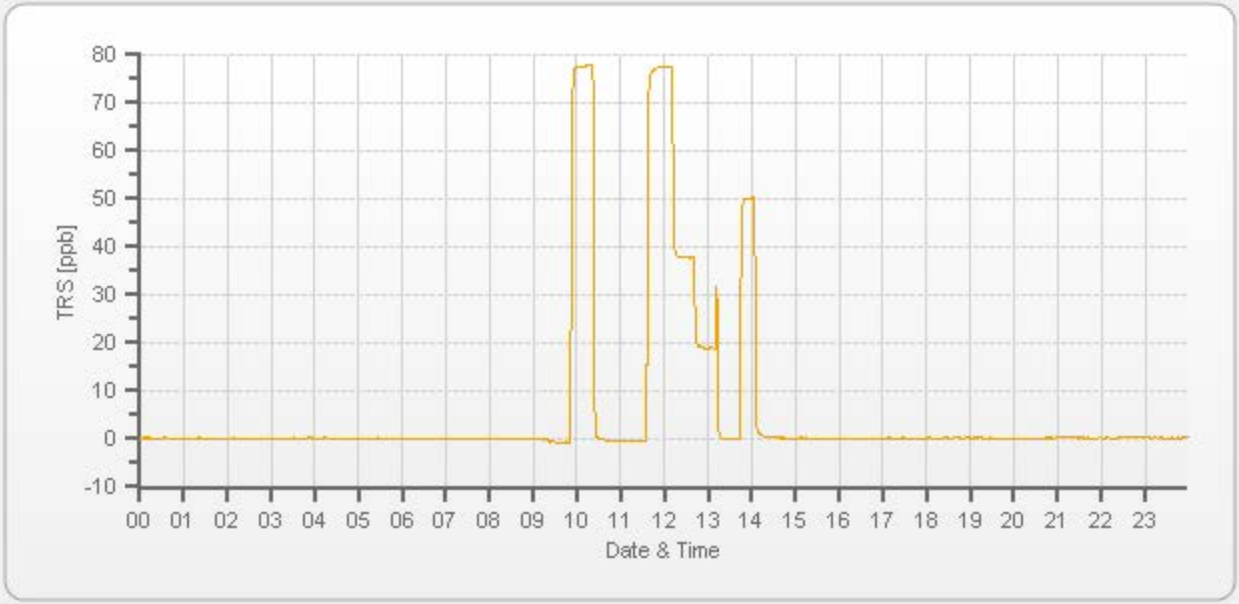
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

TRS[ppb] Station: AQHI Grimshaw Daily: 20-04-2022 Type: AVG 1 Min. [1 Min.]



NOx Calibration by Dilution/Gas-Phase Titration

CALIBRATION:

DATE:	20-Apr-2022	PREVIOUS CALIBRATION DATE:	23-Mar-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	20.6
LOCATION:	Grimshaw	BAROMETRIC (mBar):	942
PURPOSE	Routine	START TIME (MST):	09:08
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	16:36

ANALYZER:

MAKE/MODEL:	Teledyne T200	PREVIOUS CF.	
SERIAL #:	837	NOx	1.000
FLOW (mL/min)	440	NO	1.000
RANGE (ppb)	500	NO2	1.001
GPT FOR O3?		Yes	

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL48147		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	NO/NOx (PPM):	50.5	50.6	HIGH EXPIRY:	n/a
ID:	17100415	ID:	5004	CYLINDER (psi):	280		LOW ID:	n/a
MFC CALIBRATION DATE:	28-Mar-2022	OXIDIZER ID:	n/a	EXPIRY DATE	20-Aug-2026		LOW EXPIRY:	n/a

CALIBRATION SETTINGS:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
BKG/OFFSET:	1.8	-0.3	n/a	BKG/OFFSET:	1	-0.2	n/a
SLOPE/COEF/CE:	1.073	1.068	0.999	SLOPE/COEF/CE:	1.096	1.094	0.999

EXPECTED (REFERENCE) VALUE:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	316.2	2.6	313.6		307.8	2.7	305.1

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
4999		4999	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0						
4961	39.10	5000	394.9	395.7	0.8	382.5	385.2	2.7	394.9	395.7	0.8	1.032	1.027		1.000	1.000	
4982	17.80	5000	179.8	180.1	0.4	n/a	n/a	n/a	178.7	178.8	0.1	n/a	n/a		1.006	1.007	
4990	8.90	4999	89.9	90.1	0.2	n/a	n/a	n/a	88.9	89.5	0.6	n/a	n/a		1.011	1.007	

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	39.10	5000	0	393.5	395.1	1.6				
AS-FOUND HIGH	39.10	5000	250	131.0	395.1	264.1	262.5	262.5	1.000	100.00%
ADJUSTED HIGH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**n/a**	**n/a**	n/a
MID	39.10	5000	145	240.2	394.0	153.8	153.3	152.2	1.007	99.28%
LOW	39.10	5000	48	340.7	392.7	52.0	52.8	50.4	1.048	95.45%
NO2 adjustment not required.									AVERAGE:	98.25%

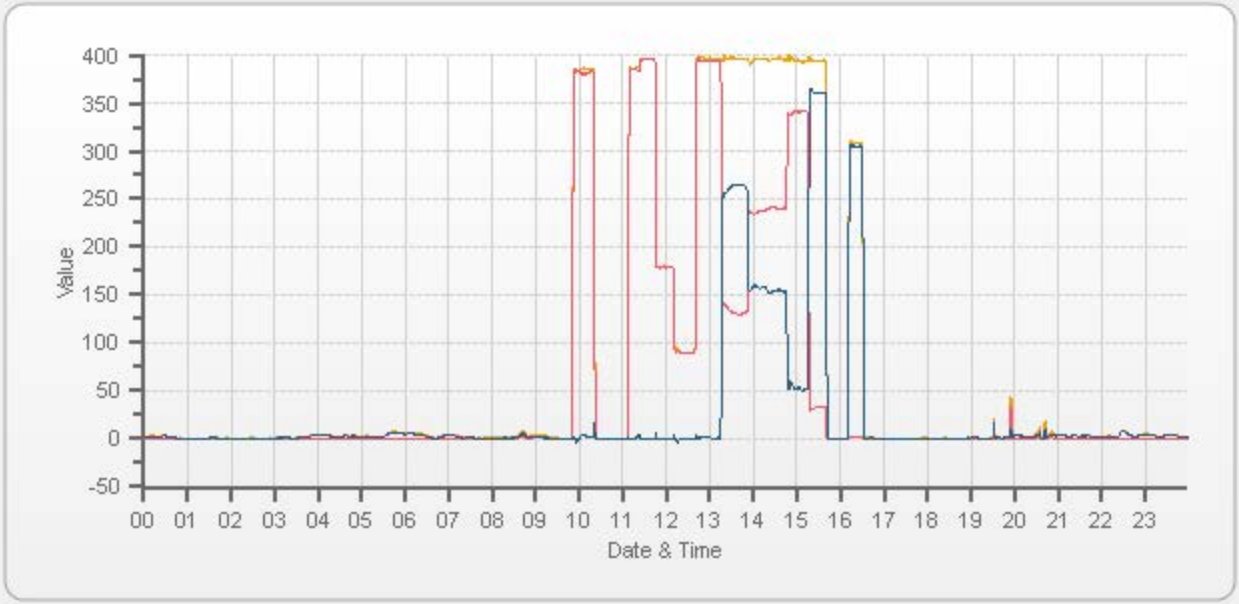
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
NO	1.000	1.001	-0.13%
NOx	1.000	1.000	-0.11%
NO2	1.000	1.011	-0.59%

COMMENTS:

Sample filter changed.
Extra O3 SETPOINT = 340; NO DROP/O3 = 360.2

Station: AQHI Grimshaw Daily: 20-04-2022 Type: AVG 1 Min. [1 Min.]



Ozone Calibration by Direct GPT

DATE:	20-Apr-2022	PREVIOUS CALIBRATION DATE:	23-Mar-2022
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.9
LOCATION:	Grimshaw	BAROMETRIC (mBar):	941
PURPOSE	Routine	START TIME (MST):	15:53
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	20:19

ANALYZER:

MAKE/MODEL	API 400A	RANGE	500 ppb
SERIAL #	445	FLOW (mL/min)	817
INITIAL		FINAL	
BKG/OFFSET	-2.3	BKG/OFFSET	-2.3
COEF/SLOPE	0.985	COEF/SLOPE	0.994
Expected (reference) Value	367.4	Expected (reference) Value	379.1

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	Teledyne
MODEL:	2010	MODEL:	M701
ID:	17100415	ID:	5004
MFC CALIBRATION DATE:	28-Mar-2022	OXIDIZER ID:	n/a
	CALIBRATION METHOD:	Direct GPT	
GPT DATE:	20-Apr-2022	GPT END TIME:	15:40

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		
5000		5000	0.0	-0.3	0.0		
5000		5000	360.2	360.6	360.2	0.998	1.000
5000		5000	153.3	n/a	153.7	n/a	0.997
5000		5000	52.8	n/a	53.0	n/a	0.996

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

O3[ppb] Station: AQHI Grimshaw Daily: 20-04-2022 Type: AVG 1 Min. [1 Min.]
O3 [ppb]
400
350
300
250
200
150
100
50
0
-50
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
O3 [ppb]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	20-Apr-2022	PREVIOUS CALIBRATION DATE:	23-Mar-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	21.8
LOCATION:	Grimshaw	BAROMETRIC (mBar):	942
PURPOSE	Routine	START TIME (MST):	13:36
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	17:35

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1191032505	1134.1
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:	Environics	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2000	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	1991	ID:	5004	CYLINDER (psi):	1200		LOW ID:	n/a
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	Internal	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
	9.21	11.12	20.33		9.23	11.08	20.31

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
3003		3003	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
2930	72.02	3002	14.59	13.39	27.98	14.65	13.65	28.30	14.59	13.37	27.96	0.996	0.981	0.989	1.000	1.002	1.001
2968	35.99	3004	7.28	6.69	13.97	n/a	n/a	n/a	7.30	6.71	14.01	n/a	n/a	n/a	0.998	0.997	0.997
2985	17.98	3003	3.64	3.34	6.98	n/a	n/a	n/a	3.65	3.37	7.02	n/a	n/a	n/a	0.997	0.992	0.995

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.000	0.0%
NMHC	1.000	0.998	0.1%
THC	1.000	0.999	0.1%

Comments:

Sample filter changed.

Use Zero Chrom? **Yes**

Station: AQHI Grimshaw Daily: 20-04-2022 Type: AVG 1 Min. [1 Min.]

Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	April 20, 2022	March 23, 2022	**Weather Conditions:**	Cloudy/Overcast	
Company:	PRAMP		**Start Time (mst):**	15:57	
Station:	Grimshaw		**End Time (mst):**	17:25	
Parameter:	PM 2.5		**Performed By/Reviewer:**	Ferdinand Roy	Chris Wesson
Instrument Data:					
Make/Model:	Teledyne T640		**Serial Number:**	318	
Owner:	PRAMP		**Alarms (detail in comments):**	Yes	
Reference Standards/I.D./Expiry Date:					

Flow Standard: DeltaCal DC1 S/N201587 / Nov 01, 2022 **Temperature:** DeltaCal DC1 S/N201587 / Nov 01, 2022

Digital Manometer: DeltaCal DC1 S/N201587 / Nov 01, 2022 **Pressure:** DeltaCal DC1 S/N201587 / Nov 01, 2022

DIAGNOSTICS:

Ambient Pressure (mmHg)	705.4	Ambient Temp (°C)	3.3	ASC Heater Duty (%)	0.0
Box Temp (°C)	26.8	Current PMT HV (V)	1537	LED Temp (°C)	35.18
P3 Value	48	PMT Setting (V)	1542	Pump PWM (%)	39
Sample Flow (L/min)	4.95	Sample RH (%RH)	15.8	Sample Temp (°C)	25.0

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)	707.0	705.0	n/a	n/a	+/- 10 mm Hg
Ambient Temperature (°C)	2.48	3.1	n/a		+/- 2°C
Sample Flow (L/min)	4.99	5.01	4.96	5.02	+/-5% of T640x (e.g., 4.75 – 5.25 lpm)
Additional Monthly Maintenance :					***Completed***
				Inlet cleaned?	Yes
				Sample tubing inspected (inner and outer)?	Yes

Comments:

1 Alert Active: 03/28/2022/ - 12:21:58 Perform Span Dust Check - Trigger: Span Dev Track value outside specified range (-3.0-3.0)
Checked PMT peak response = OK. Reset alert.

Meteorological System Checklist

Date:	April 20, 2022		
Technician:	Ferdinand Roy		
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:	March 23, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	F.S. 160348895 expires Sep 4, 2022
Reference Temperature (^{o}C):	1.3
Station - Ambient Temperature (^{o}C):	0.7
Temperature Difference (^{o}C):	0.6

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	March 23, 2022	
Reference Barometer ID:	Metlabs Deltacal S/N 201587 expires Nov 1, 2022	
Reference Pressure - Units/Reading:	millibar	944.5891
Station Pressure - Units/Reading:	millibar	941.8
Pressure Tolerance +/- 15% of error:	803 - 1086	0.30%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	March 23, 2022	
Reference Hygrometer ID:	F.S. 160348895 expires Sep 4, 2022	
Reference Hygrometer % RH- Reading:	70.30	
Station Hygrometer % RH- Reading:	72.80	
RH Tolerance +/- 15% of difference:	59.76 - 80.85	-3.6%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	March 23, 2022	Previous check date:	March 23, 2022
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	SW
Wind speed on Data Logger (kph):	6.8	Wind Direction on Data Logger:	SW
		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.

Peace River Area Monitoring Program

APRIL 2022

Ambient Air Monitoring Calibration Report

- PEACE RIVER COMPLEX (PRC) STATION-

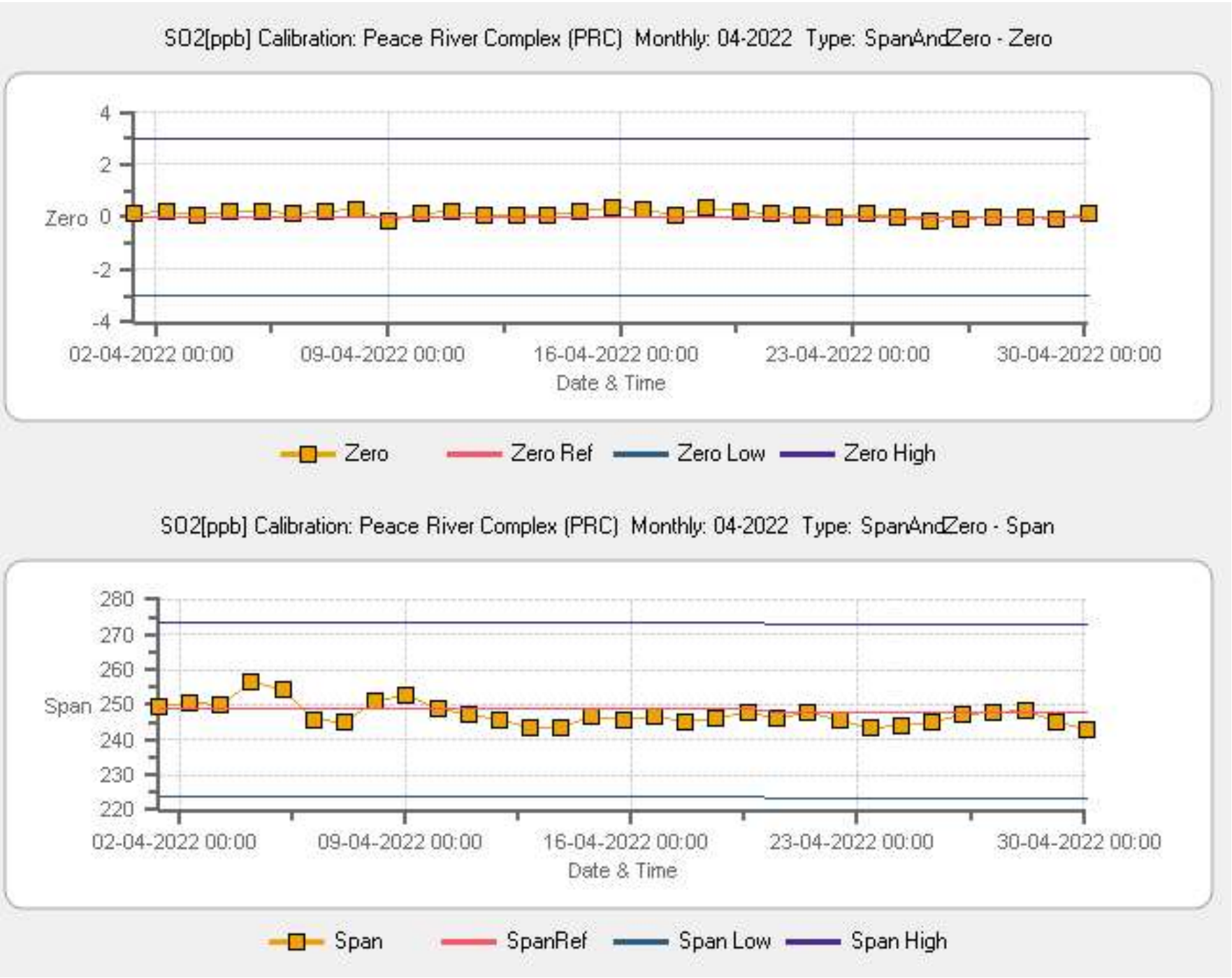
CAL-PRAMP-202204-01698

Operation and Maintenance:
Bureau Veritas Canada

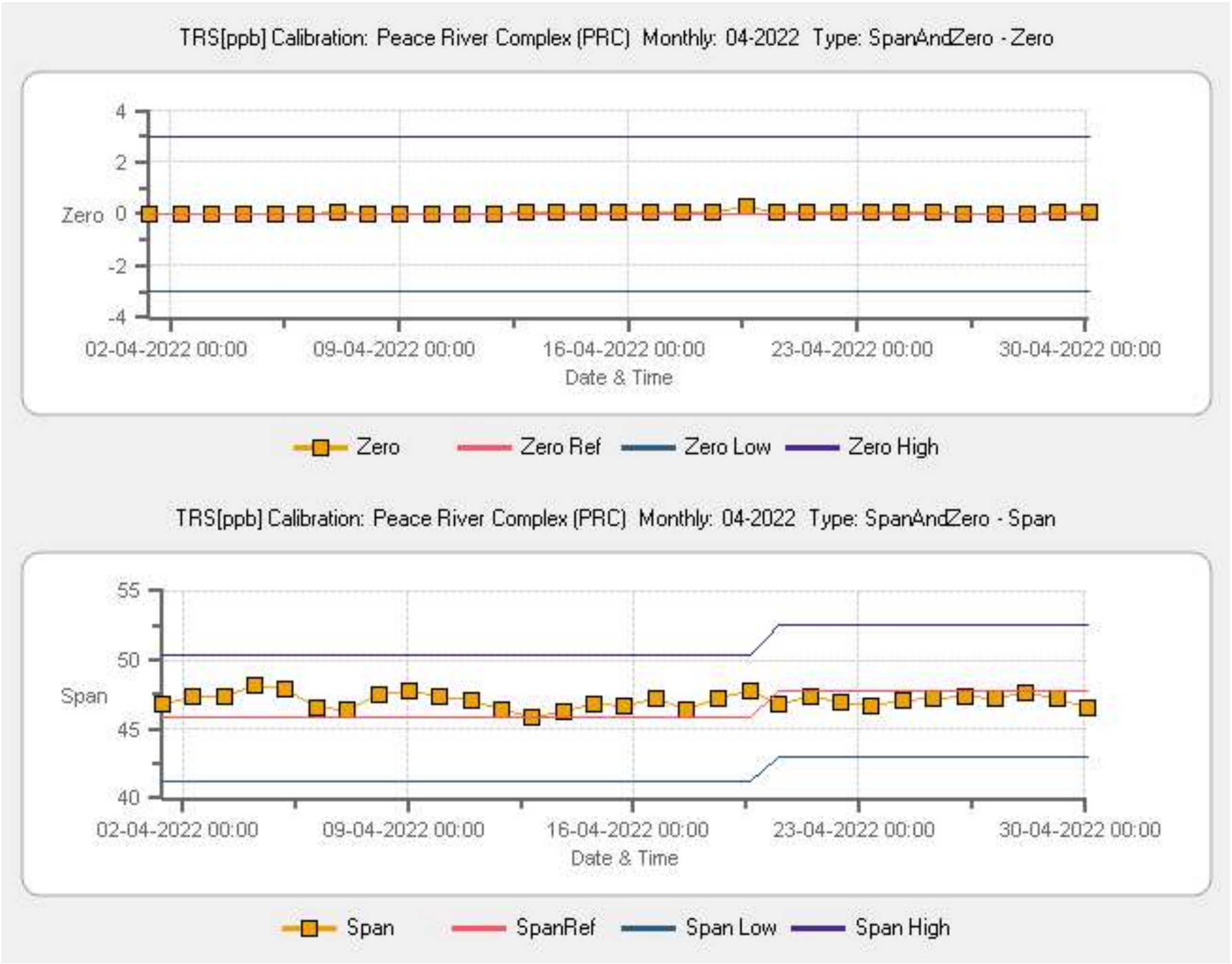
Data Validation and Report:
Bureau Veritas Canada

May 25, 2022

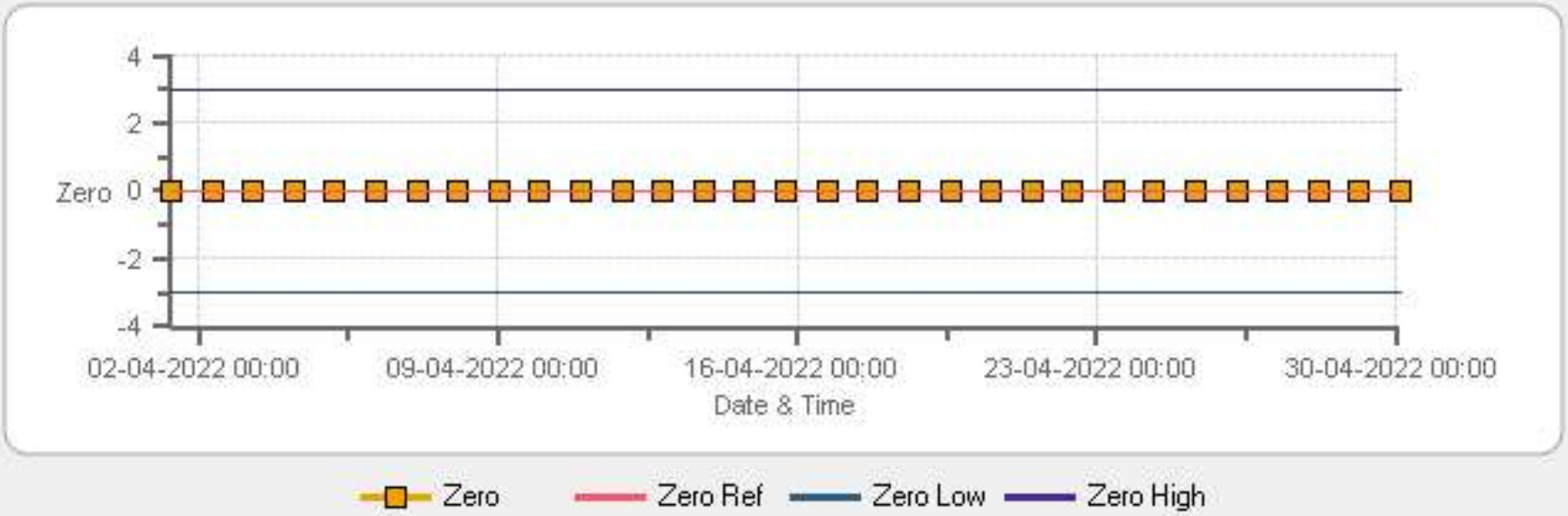
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS


SO2[ppb] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
SO2[ppb] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Span
280
270
260
Span 250
240
230
220
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

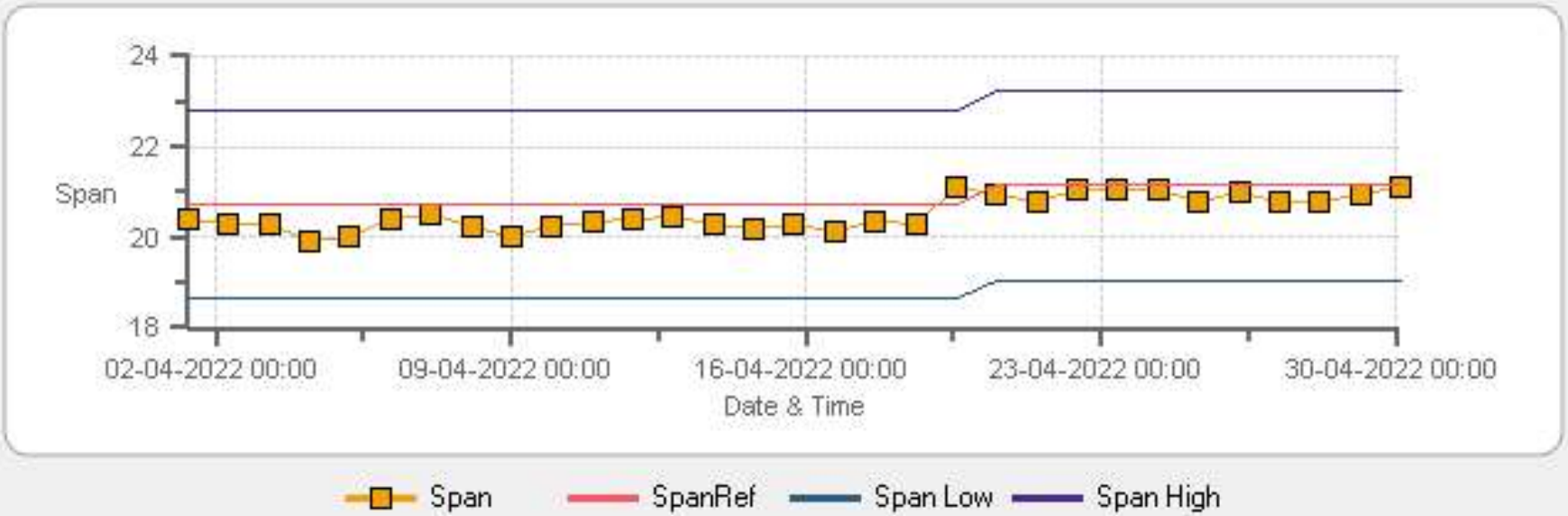
H2S[ppb] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
H2S[ppb] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Span
46
44
42
Span
40
38
36
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

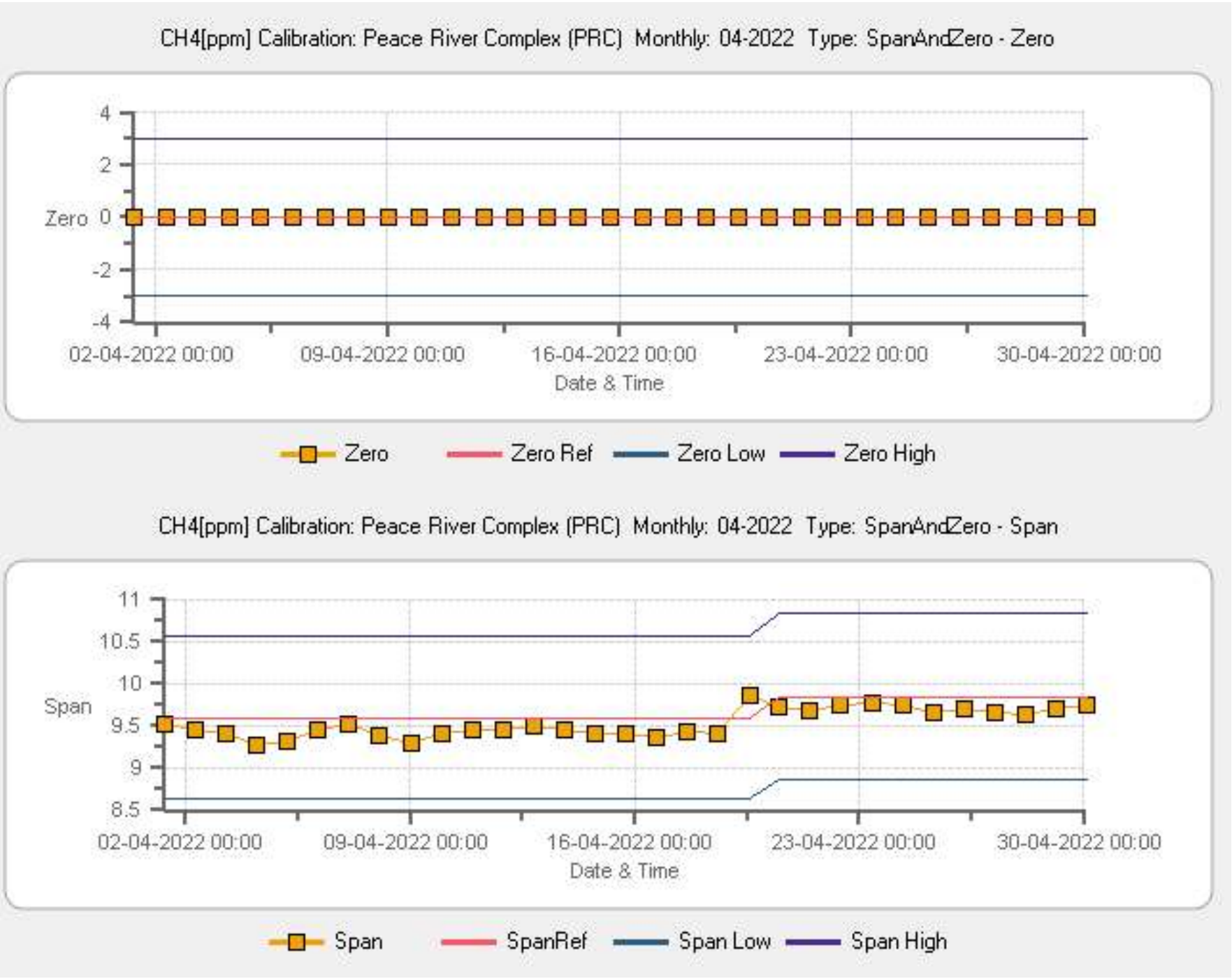

TRS[ppb] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Span
55
50
Span
45
40
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

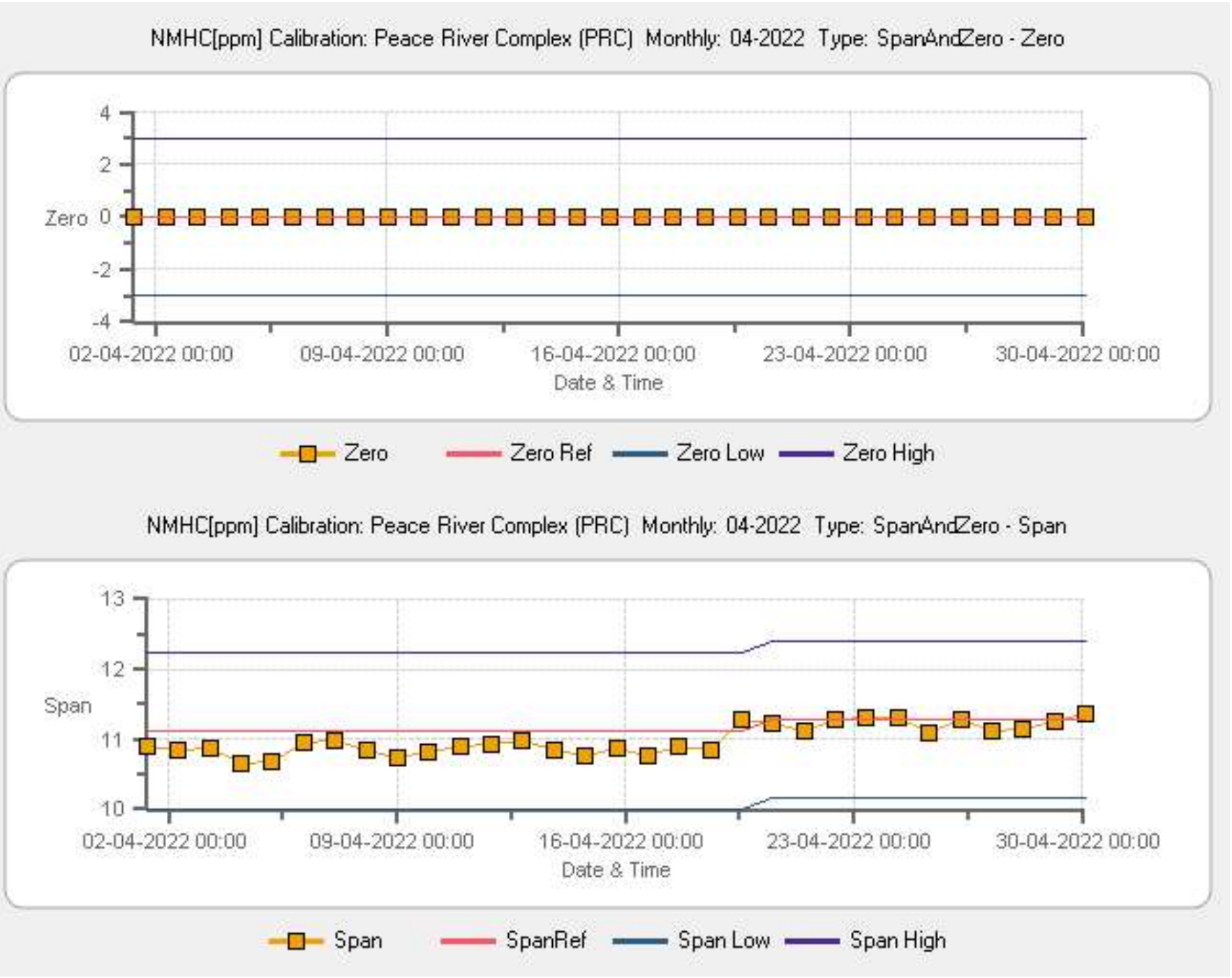
THC55[ppm] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Zero



THC55[ppm] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Span




CH4[ppm] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Span
11
10.5
10
Span
9.5
9
8.5
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


NMHC[ppm] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: Peace River Complex (PRC) Monthly: 04-2022 Type: SpanAndZero - Span
13
12
Span
11
10
02-04-2022 00:00
09-04-2022 00:00
16-04-2022 00:00
23-04-2022 00:00
30-04-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	19-Apr-2022	PREVIOUS CALIBRATION DATE:	22-Mar-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	931
PURPOSE	Routine	START TIME (MST):	09:56
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:59

ANALYZER:

MAKE/MODEL	Thermo 43i	RANGE	500 ppb
SERIAL #	1034746225	FLOW (mL/min)	431
INITIAL		FINAL	
BKG/OFFSET	18.6	BKG/OFFSET	18.7
COEF/SLOPE	1.1	COEF/SLOPE	1.093
Expected (reference) Value	248.7	Expected (reference) Value	247.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	Teledyne
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	5004
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002357	HIGH ID	n/a
CONC (ppm):	24.90	EXPIRY DATE	n/a
CYLINDER (psi):	280	LOW ID	n/a
EXPIRY DATE	13-Nov-2024	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
2804		2804	0.00	0.4	0		
2760	42.70	2803	379.42	382.2	379	0.994	1.001
2783	21.35	2804	189.60	n/a	189.5	n/a	1.001
2795	10.11	2805	89.71	n/a	89.4	n/a	1.003

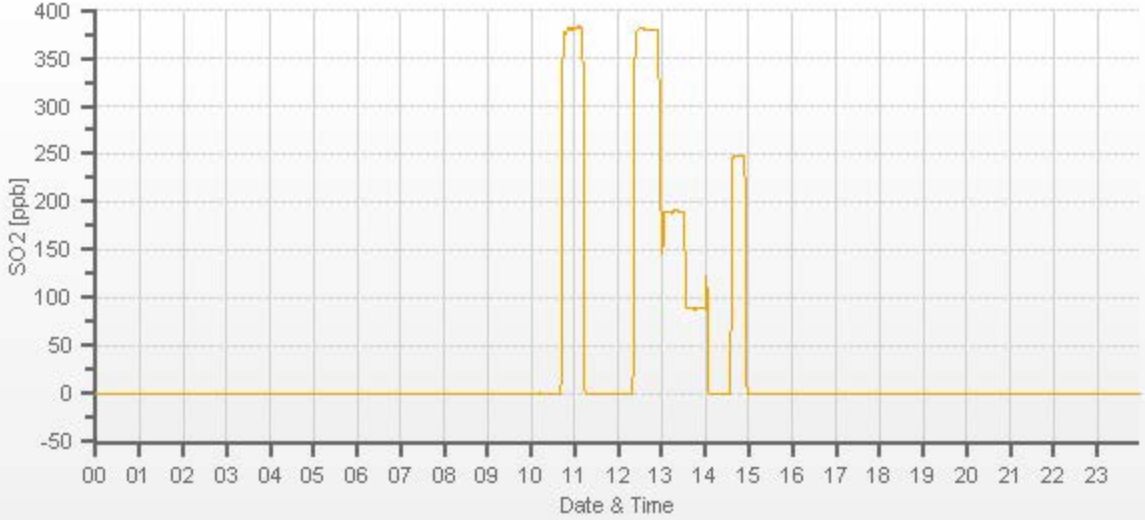
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.0%

COMMENTS:

Sample filter changed.
Daily Zero/Span at 13:00, mid-point restarted.

SO2[ppb] Station: Peace River Complex [PRC] Daily: 19-04-2022 Type: AVG 1 Min. [1 Min.]



H2S Analyzer Calibration by Dilution

DATE:	19-Apr-2022	PREVIOUS CALIBRATION DATE:	22-Mar-2022
PARAMETER:	H2S	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	931
PURPOSE	Routine	START TIME (MST):	09:56
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:59

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1308857354	FLOW (mL/min)	845
INITIAL		FINAL	
BKG/OFFSET	13.6	BKG/OFFSET	13.2
COEF/SLOPE	1.027	COEF/SLOPE	1.006
Expected (reference) Value	41.4	Expected (reference) Value	41

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	Teledyne
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	5004
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002472	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	610	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

START TIME:	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		
2804		2804	0.00	-0.1	0		
2779	23.22	2803	77.98	79.5	78	0.980	1.000
2793	11.34	2804	38.03	n/a	38.3	n/a	0.993
2799	5.67	2805	19.02	n/a	19.4	n/a	0.980

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.2%

COMMENTS:

Sample filter changed.
Daily Zero/Span at 13:00, mid-point restarted.

H2S[ppb] Station: Peace River Complex [PRC] Daily: 19-04-2022 Type: AVG 1 Min. [1 Min.]

TRS Analyzer Calibration by Dilution

DATE:	19-Apr-2022	PREVIOUS CALIBRATION DATE:	22-Mar-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	931
PURPOSE	Routine	START TIME (MST):	09:55
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:59

ANALYZER:

MAKE/MODEL	Thermo 43I-TLE	RANGE	100 ppb
SERIAL #	1162460022	FLOW (mL/min)	427
INITIAL		FINAL	
BKG/OFFSET	2.55	BKG/OFFSET	2.5
COEF/SLOPE	0.987	COEF/SLOPE	0.977
Expected (reference) Value	45.82	Expected (reference) Value	47.79

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	Teledyne
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	5004
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	EY0002472	HIGH ID	n/a
CONC (ppm):	9.41	EXPIRY DATE	n/a
CYLINDER (psi):	610	LOW ID	n/a
EXPIRY DATE	10-Nov-2023	EXPIRY DATE	n/a

CALIBRATION PARAMETERS:

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

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

START TIME:	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		
2804		2804	0.00	-0.04	0		
2779	23.22	2803	77.98	77.87	78	1.001	1.000
2793	11.34	2804	38.03	n/a	38.21	n/a	0.995
2799	5.67	2805	19.02	n/a	19.42	n/a	0.979

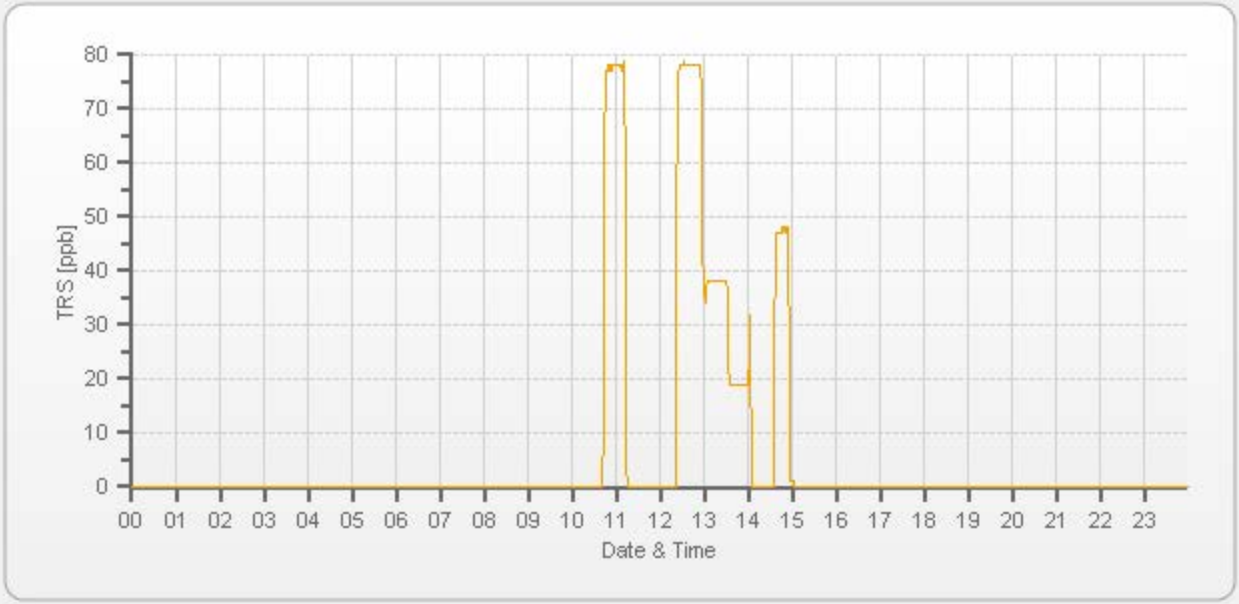
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.999	0.2%

COMMENTS:

Converter CD-NOVA CDN-101#553. Sample filter changed.
Daily Zero/Span at 13:00, mid-point restarted.

TRS[ppb] Station: Peace River Complex [PRC] Daily: 19-04-2022 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	19-Apr-2022	PREVIOUS CALIBRATION DATE:	22-Mar-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	21.9
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	931
PURPOSE	Routine	START TIME (MST):	09:56
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	13:51

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1022143392	1025.5
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.000	1.001	1.001

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	Teledyne	CYLINDER ID:	LL28583		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	17100415	ID:	5004	CYLINDER (psi):	1200		LOW ID:	n/a
MFC CALIBRATION DATE:	28-Mar-2022	OXIDIZER ID:	Internal	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
	9.60	11.12	20.72		9.85	11.28	21.14

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
2998		2998	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
2927	72.00	2999	14.60	13.40	28.00	13.84	12.78	26.62	14.62	13.39	28.01	1.055	1.049	1.052	0.998	1.001	1.000
2963	36.00	2999	7.30	6.70	14.00	n/a	n/a	n/a	7.35	6.70	14.05	n/a	n/a	n/a	0.993	1.000	0.996
2980	18.00	2998	3.65	3.35	7.00	n/a	n/a	n/a	3.69	3.35	7.04	n/a	n/a	n/a	0.989	1.001	0.995

LINEAR REGRESSION ANALYSIS:

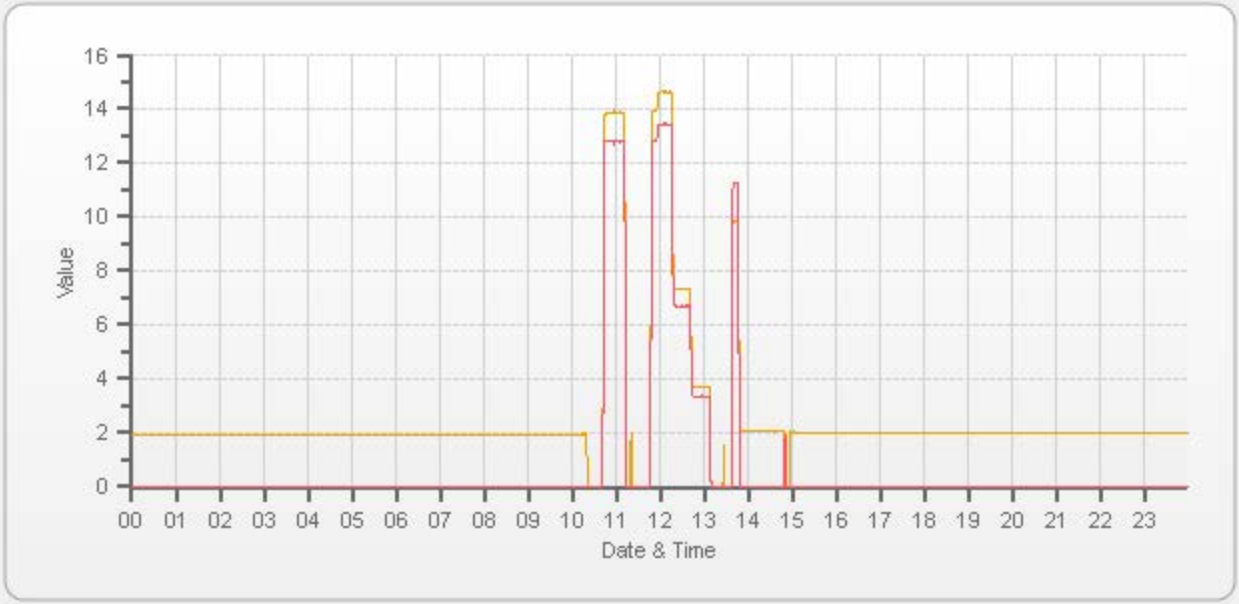
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.001	0.1%
NMHC	1.000	0.999	0.0%
THC	1.000	1.000	0.1%

Comments:

Sample filter changed. Monthly calibration - no issues.

Use Zero Chrom? **No**

Station: Peace River Complex [PRC] Daily: 19-04-2022 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	April 19, 2022		
Technician:	Ferdinand Roy		
Station:	Peace River Compliance		
Unit:	**Make:**	**Model:**	**Serial #:**
Temperature Sensor:	Rotronic	HC2-S3	20558318
Barometric Pressure Sensor:	MetOne	092	B19577
Relative Humidity Sensor:	Rotronic	HC2-S3	20558318
Anemometer:	RM Young	05305VK	129612

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	n/a
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	F.S. 160348895 expires Sep 4, 2022
Reference Temperature (^{o}C):	-1.4
Station - Ambient Temperature (^{o}C):	-1.1
Temperature Difference (^{o}C):	-0.3

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	n/a	
Reference Barometer ID:	Mesalabs Deltacal S/N 201587 expires Nov 1, 2022	
Reference Pressure - Units/Reading:	millibar	935.2566
Station Pressure - Units/Reading:	millibar	951
Pressure Tolerance +/- 15% of error:	795 - 1076	-1.68%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	n/a	
Reference Hygrometer ID:	F.S. 160348895 expires Sep 4, 2022	
Reference Hygrometer % RH- Reading:	77.50	
Station Hygrometer % RH- Reading:	76.00	
RH Tolerance +/- 15% of difference:	65.88 - 89.13	1.9%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Wind Speed Observed (kph):	10~15	Wind Direction Observed:	NE
Wind speed on Data Logger (kph):	11.2	Wind Direction on Data Logger:	NE
		Wind Direction Pass/Fail?:	Pass

Comments

Temp/RH probe and BP newly installed. No issues.

Meteorological Sensor Audit/Calibration

Location Information

Company:	CNRL	**Performed By:**	Ferdinand Roy
Audit Location:	Peace River Compliance	**Reviewed By:**	Chris Wesson
Audit Date:	June 16, 2021	**Start/End Time (mst):**	8:20/10:45
Calibration Purpose:	routine annual	**Weather Conditions:**	Mix of sun and clouds

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 #:	129612	**Direction Voltage Output Range:**	0-1
Previous Cal/Audit Date:	July 14, 2020	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18801 id# R9133 expires August 6, 2022

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

RPM	Wind Speed Generated kph	Clockwise Wind Speed kph	Counter Clockwise Wind Speed kph	Correction Factor
0	0	0.0	0.0	-
1000	18.4	18.5	18.5	0.996
2000	36.9	36.9	36.9	0.999
3000	55.3	55.4	55.4	0.998
4000	73.7	73.8	73.8	0.999
5000	92.2	92.3	92.3	0.998
6000	110.6	110.8	110.7	0.998
7000	129.0	129.4	129.2	0.998
8000	147.4	147.8	147.8	0.998
9000	165.9	166.4	166.4	0.997
10000	184.3	185.0	184.8	0.997
		The audit meets AMD requirements.	**Average Correction Factor=**	**0.998**

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	329	0.0	1.0	0.5
60	300	61	300	-1.0	0.0	0.5
90	270	92	271	-2.0	-1.0	1.5
120	240	122	241	-2.0	-1.0	1.5
150	210	151	212	-1.0	-2.0	1.5
180	180	181	181	-1.0	-1.0	1.0
210	150	211	152	-1.0	-2.0	1.5
240	120	241	122	-1.0	-2.0	1.5
270	90	271	92	-1.0	-2.0	1.5
300	60	300	62	0.0	-2.0	1.0
330	30	329	31	1.0	-1.0	1.0
355	0	354	1	1.0	1.0	1.0
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**1.2**

Comments:

Physical inspection completed - no issues.

Peace River Area Monitoring Program

APRIL 2022

Monthly Ambient Air Quality Monitoring Integrated Sampling Report

PRAMP-202204-INTEGRATED

May 26, 2022

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Peace River Area Monitoring Program
Suite 91, 305 – 4625 Varity Drive NW
Calgary, AB, T3A 0Z9
Phone #: 780-226-7068 / 587-225-2248
E-mail: pramptech@prampairshed.ca
www.prampairshed.ca

May 26, 2022

Alberta Environment and Parks (AEP)
11th Floor, Oxbridge Place
9820 106 Street
Edmonton, AB, T5K 2J6

RE: PRAMP –April 2022 Monthly Ambient Air Quality Monitoring Integrated Sampling Report

Enclosed is the April 2022 Monthly Ambient Air Quality Monitoring Integrated Sampling Report for the Peace River Area Monitoring Program's (PRAMP) regional air quality monitoring network. This report summarizes monitoring data for samples collected using integrated methods, including volatile organic compounds (NMHC canister sampling program), hydrogen sulphide, and sulphur dioxide (passive sampling program).

The representative of the Person Responsible for this monitoring program is

PRAMP Airshed
Michael Bisaga / Lily Lin, Technical Program Managers
Suite 91, 305 – 4625 Varity Drive NW
Calgary, AB, T3A 0Z9
Phone #: 780-226-7068 / 587-225-2248
E-mail: pramptech@prampairshed.ca

This report has been prepared, reviewed and submitted by Michael Bisaga & Lily Lin of the PRAMP Airshed. This report is also submitted on behalf of the industrial member companies to satisfy the requirements of the facility Operating Approvals.

NETWORK STATION SUMMARY

Listing of Integrated Sampling Stations

- 986c Station
- 842b Station
- Reno Station
- Peace River Complex (PRC) Station

Station Name	986c	842b	Reno	PRC
Station ID	1562	1561	1563	1698
Coordinates	56.36980, -116.92500	56.27406, -116.98129	55.86936, -117.05739	56.38257, -116.769283
NMHC Canister (VOCs)	√	√	√	
Intermittent (PACs)	√			
Passives				√

Listing of Passive Sampling Sites

Site ID	Latitude	Longitude
1	56.377841	-116.787142
2	56.378638	-116.780496
3	56.382958	-116.783813
4	56.377044	-116.794220
7	56.384796	-116.780488
8	56.388710	-116.771234
9	56.388943	-116.756205
10	56.388642	-116.797817
11	56.383771	-116.841165
12	56.388962	-116.885263
13	56.390972	-116.822083
14	56.424825	-116.853181

List of Contractors who performed the air monitoring activities

Sampling Program	Monitoring Activities Conducted By	Sample Analysis Conducted By	Data/Report Prepared By	Electronic Submission Conducted By
NMHC Canister (VOCs)	Bureau Veritas	InnoTech Alberta Inc	PRAMP	PRAMP
Intermittent (PACs)	PRAMP	ECCC	AEP	AEP
Passives	PRAMP	Bureau Veritas	PRAMP	PRAMP

Monitoring Notes during the Month of April 2022

- **NMHC Canister Sampling Program - Volatile Organic Compounds (VOCs)**
  - 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.
  - There was no canister event recorded in April.

- **Passive Polycyclic Aromatic Compounds (PACs) Sampling Program**
  - The PAC sampling program began in December 2019, and is designed to collect a 2-month integrated sample.
  - Due to an operator error, the task of the sample media exchange was not performed as scheduled in late April. The media for the March/April collection period will be removed in the late May. The media for the May/June collection period will be installed at the same time.
- **Passives Sampling Program**
  - There were no exceedances of the AAAQOs for all monitored parameters at any of the passive stations during this month.
  - The passive sample filters were installed at the stations on April 1 and were removed on May 1.
  - The sample media exchange was performed by CNUL contractor this month along with PRAMP's field operations assistant as an observer. PRAMP's field operations assistant will be responsible for the sample media exchange once all the safety program requirements are met.
  - The field operator could not locate station #9; therefore, no sample media were collected this month at this station.

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

There were no deviations from authorized monitoring methods.

Certification

The 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

The 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 ETS as required by the AMD.

Michael Bisaga, Technical Program Manager, PRAMP Airshed

May 26, 2022

INTEGRATED SAMPLING RESULTS SUMMARY

- **NMHC Canister VOCs analytical results**

  No NMHC canister were collected this month.

- **Passive analytical results**

	H_2S		SO_2	
Minimum (ppb)	0.07	#14	0.1	#2
Maximum (ppb)	0.11	#3	0.3	#1
Average (ppb)	0.09	-	0.17	-

ANALYTICAL SAMPLING RESULTS

Passives

PEACE RIVER AREA MONITORING PROGRAM

PRC Site - April 2022

Passive Results

	H_2S		SO_2	
Minimum (ppb)	0.07	#14	0.1	#2
Maximum (ppb)	0.11	#3	0.3	#1
Average (ppb)	0.09	-	0.17	-

No.	Calculated Value	Calculated Value
1	0.09	0.3
2	0.08	0.1
3	0.11	0.2
4	0.09	0.2
7	0.08	0.2
8	0.08	0.2
9	Missing	Missing
10	0.10	0.2
11	0.09	0.1
12	0.09	0.1
13	0.09	0.1
14	0.07	0.2
Reportable Detection Limit (RDL)	**0.02**	**0.1**

Note:
The passive pole for station #9 could not be found during this trip. No sample media for station #9 were picked up.

End of Report

Peace River Area Monitoring Program

APRIL 2022

Ambient Air Monitoring

Certified Laboratory Analysis Report

LAB-PRAMP-202204

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

May 25, 2022

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NMHC Canister Analytical Results

Bay 10, 6744 - 50 St. Edmonton AB Canada T6B 3M9

Ph (780) 378-8500, Toll free (800) 386-7247, Fax (780) 378-8699

Maxxam Job Number:

PASSIVE AIR CHAIN OF CUSTODY

Invoice To	
Company Name	Canadian Natural Resources Ltd.
Contact Name	Robyn Kutz-Semeiuk
Address	210, 200 Carleton Dr.
Postal Code	St. Albert T8N 3Y4
Phone/Fax#	Ph Fax

Report To
Name & Email Address

Service Requested
☐ **RUSH**
(Please contact for TAT)
☐ **REGULAR**

Company Name
CNRL
Project Name/LSD
Peace River

ANALYTICAL INFORMATION

Sample ID or Location (LSD)	Sample Start Date (DD/MM/YY)	Time (24 hrs) (HH:MM)	Sample End Date (DD/MM/YY)	Time (HH:MM)	Volume (m3) *PM/TSP Only*	Analysis Required: SO2	H2S	NO2	O3	NOx	NH3	HNO3	VOC	PM2.5	PM10	TSP	Dustfall
1	01/05/22	09:00	01/05/22	09:00		X	X										
2						X	X										
3						X	X										
4						X	X										
7						X	X										
8						X	X										
Could not Find 9						X	X										
10						X	X										
11						X	X										
12						X	X										
13						X	X										
14						X	X										
Blank						X	X										
Blank						X	X										
		15:27		15:30													

RECU/RECEIVED
05 -05- 2022
NS 09:30

14:50
14:45

Notes/Comments: Client 12690 / Scenario 4290

Sampled By Dwayne Stepaniuk Phone/Email ___ Received By ___ Date/Time May 1/2022 Project # ___

Date Shipped ___ Signature ___ PO# ___

Your Project #: 2022/04/01 - 2022/05/01
Site Location: PEACE RIVER COMPLEX

Attention: Michael and Lily

Peace River Area Monitoring Program Committee
Three Creeks
Suite 91, 305 –
4625 Varsity Drive NW
Calgary, AB
CANADA T3A0Z9

Report Date: 2022/05/20
Report #: R3175104
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C230403
Received: 2022/05/06, 15:07

Sample Matrix: Air
Samples Received: 12

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis	12	2022/05/18	2022/05/18	PTC SOP-00150	Passive H2S in ATM
SO2 Passive Analysis	12	2022/05/11	2022/05/18	PTC SOP-00149	Passive SO2 in ATM

This report shall not be reproduced except in full, without the written approval of the laboratory.
Results relate only to the items tested.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Belma Elefante
Customer Service Associate
20 May 2022 08:33:40

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Customer Service Passives,
Email: PassiveAir@bureauveritas.com
Phone# (780) 378-8500

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C230403
Report Date: 2022/05/20

Peace River Area Monitoring Program Committee
Client Project #: 2022/04/01 - 2022/05/01
Site Location: PEACE RIVER COMPLEX
Sampler Initials: BG

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		ASQ152	ASQ153	ASQ154	ASQ155	ASQ156	ASQ157	ASQ158		
Sampling Date		2022/04/01 00:00	2022/04/01 00:00	2022/04/01 00:00	2022/04/01 00:00	2022/04/01 00:00	2022/04/01 00:00	2022/04/01 00:00		
	UNITS	1	2	3	4	7	8	9 - MISSING	RDL	QC Batch
Passive Monitoring										
Calculated H2S	ppb	0.09	0.08	0.11	0.09	0.08	0.08	MISSING	0.02	A581369
Calculated SO2	ppb	0.3	0.1	0.2	0.2	0.2	0.2	MISSING	0.1	A574981
RDL = Reportable Detection Limit										

Bureau Veritas ID		ASQ159	ASQ160	ASQ161	ASQ162	ASQ163		
Sampling Date		2022/04/01 00:00	2022/04/01 00:00	2022/04/01 00:00	2022/04/01 00:00	2022/04/01 00:00		
	UNITS	10	11	12	13	14	RDL	QC Batch
Passive Monitoring								
Calculated H2S	ppb	0.10	0.09	0.09	0.09	0.07	0.02	A581369
Calculated SO2	ppb	0.2	0.1	0.1	0.1	0.2	0.1	A574981
RDL = Reportable Detection Limit								

Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

GENERAL COMMENTS

Sample ASQ161 [12] : H2S sample barrier broken. --YL6 20220518

Results relate only to the items tested.

Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C230403
Report Date: 2022/05/20

Peace River Area Monitoring Program Committee
Client Project #: 2022/04/01 - 2022/05/01
Site Location: PEACE RIVER COMPLEX
Sampler Initials: BG

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
A574981	OZ	Spiked Blank	Calculated SO2			105	%	90 - 110
A574981	OZ	Method Blank	Calculated SO2		<0.1		ppb	
A581369	KDE	Spiked Blank	Calculated H2S			100	%	90 - 110

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

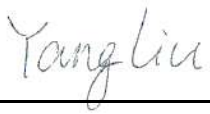
Bureau Veritas Edmonton: 6744 - 50th Street T6B 3M9 Telephone (780) 378-8500 Fax (780) 378-8699

Bureau Veritas Job #: C230403
Report Date: 2022/05/20

Peace River Area Monitoring Program Committee
Client Project #: 2022/04/01 - 2022/05/01
Site Location: PEACE RIVER COMPLEX
Sampler Initials: BG

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Yang Liu, Analyst II

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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End of Report