Peace River Area Monitoring Program

JULY 2022

Monthly Ambient Air Quality Monitoring Report

PRAMP-202207

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

August 23, 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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August 23, 2022

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

Enclosed is the July 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

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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 July 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.
- No major operational issues were identified this month.

842b Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement, except TRS (77.3%). **AEP reference #: 401189**.
- **TRS:** The CD Nova CDN-101 TRS converter, s/n: 576, failed on July 6. The converter was replaced by the CD Nova CDN-101 TRS converter, s/n: 583, on July 10. The channel was back online after a successful post-repair calibration on July 11. One hundred twenty-five hours of downtime were recorded due to this event.

Reno Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement, except BP (55.5%).
- **BP:** During the monthly data review, it was noticed that no variations were shown in the data between June 29 hour 15 and July 12 hour 16. Data are not believed to be real readings and were discarded. Thirty-three and two hundred eight-one hours of downtime were recorded in June and July, respectively.

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, except BP (0.0%).
- **BP:** During monthly data review, it was noticed that no variations were shown in the data between July 1 hour 0 and August 1 hour 5. Data are not believed to be real readings and were discarded. Seven hundred forty-four hours of downtime were recorded July.

AQHI – Grimshaw Station

- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) and /or Alberta Ambient Air Quality Guidelines (AAAQGs) where applicable.
- All data collected this month were compliant with the requirements outlined in the AMD 2016.
- All parameters met the 90% operational uptime requirement.
- **O3:** On July 12, the BV-supplied API 400A analyzer, s/n: 445, was removed, and the PRAMP-owned Teledyne T400 analyzer, was installed. One hour of downtime was recorded due to this event.

VOCs Canister Sampling Program

- The canister sampling program collects a 1-hour sample of air when the continuously measured non-methane hydrocarbon (NMHC) concentration reaches a specified trigger point. The current trigger 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 both the PRC station and the AQHI-Grimshaw station.
- Sample analysis and analytical results were prepared and provided by InnoTech Alberta.
- No NMHC canister event were recorded this month.

Revisions to Alberta's Ambient Air Quality Data Warehouse

Reno Station: Due to communication errors between the BP sensor and the datalogger, data collected between June 29 hour 15 and June 30 hour 23 were discarded. The revised data for June 2022 were submitted to the Alberta's Ambient Air Quality Data Warehouse on August 29 (Report delivery confirmation # R4450033.

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).

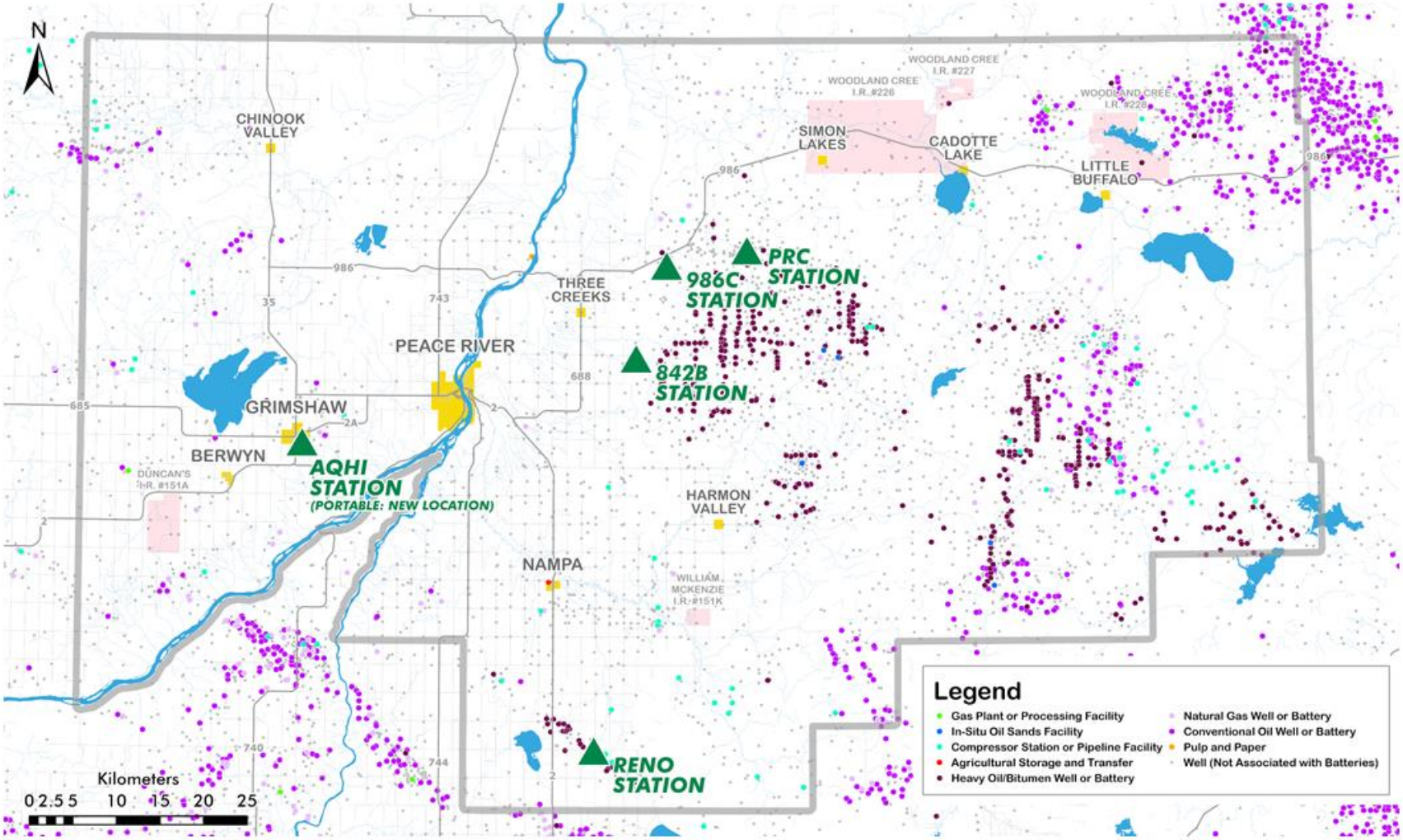
I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements. I also certify that at the time of this report's submission, all 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

August 23, 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 July 20. • A major power outage occurred on July 29 hour 19. The power was back on August 3 hour 19. Fifty-three hours of downtime were recorded in July due to this event.			
TRS	**Thermo / 43iQTL**	**1191833341**	
• The analyzer failed the monthly calibration on July 20. The analyzer was reset to the as-found point status to proceed a shut-down calibration. Following the successful shut-down calibration, the scrubber beads were renewed. The analyzer was allowed time to stabilize overnight. A successful post-repair calibration was completed on July 21. • Higher than expected ambient TRS concentrations were recorded on July 24. A repeat multi-point calibration was completed on July 27 to confirm the analyzer's functionality. No issues were identified. The as-found zero result (1.34 ppb) was used for the baseline correction for the data collected between July 21 hour 12 and July 27 hour 9. • A major power outage occurred on July 29 hour 19. The power was back on August 3 hour 19. Fifty-three hours of downtime were recorded in July due to this event.			
THC/CH4/NMHC	**Thermo / 55i**	**1433563261**	
• The analyzer failed the daily span check on July 10 due to a depleted span gas on July 10. The span gas cylinder was replaced on July 10 following by a repeat zero-span check. One hour of downtime was recorded due to this event. • A major power outage occurred on July 29 hour 19. The power was back on August 3 hour 19. Fifty-three hours of downtime were recorded in July due to this event.			
Relative Humidity (RH)	**Rotronic / HC2-S3**	**20357528**	
• The RH sensor was checked on July 20. The sensor passed the check requirements. • A major power outage occurred on July 29 hour 19. The power was back on August 3 hour 19. Fifty-three hours of downtime were recorded in July due to this event.			

Parameter	Make / Model	Serial Number	
Barometric Pressure (BP)	**MetOne / 092**	**Y23358**	
• The BP sensor was checked on July 20. The sensor passed the check requirements. • A major power outage occurred on July 29 hour 19. The power was back on August 3 hour 19. Fifty-three hours of downtime were recorded in July due to this event.			
Ambient Temperature (AT)	**Rotronic / HC2-S3**	**20357528**	
• The AT sensor was checked on July 20. The sensor passed the check requirements. • A major power outage occurred on July 29 hour 19. The power was back on August 3 hour 19. Fifty-three hours of downtime were recorded in July due to this event.			
Station Temperature (ST)	**COMET**	**18961918**	
• A major power outage occurred on July 29 hour 19. The power was back on August 3 hour 19. Fifty-three hours of downtime were recorded in July due to this event.			
Precipitation (Precip)	**RM Young / 52202**	**TB 16325**	
• The tipping bucket was found to be blocked by dirt on July 13. The problem was corrected on the same day. Data collected from the last time the tipping bucket was checked, which was June 7, to July 13, should be used with caution. • The precipitation gauge was checked on July 20. The sensor passed the check requirements. • A major power outage occurred on July 29 hour 19. The power was back on August 3 hour 19. Fifty-three hours of downtime were recorded in July due to this event.			
Wind Speed/Wind Direction (WS/ WD)	**RM Young / 05305AQ**	**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 sensors were checked on July 20. The sensor passed the check requirements. • A major power outage occurred on July 29 hour 19. The power was back on August 3 hour 19. Fifty-three hours of downtime were recorded in July 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	2	July 22 at hour 17	3.9	ENE	0.3	July 18	92.9	88.3
TRS (ppb)	-	-	-	-	-	-	0.47	0.00	3.19	July 27 at hour 22	9.7	SSE	2.11	July 28	90.3	85.1
THC (ppm)	-	-	-	-	-	-	2.00	1.89	2.30	July 26 at hour 6	5.1	ESE	2.07	July 2	92.7	88.1
CH4 (ppm)	-	-	-	-	-	-	2.00	1.89	2.30	July 26 at hour 6	5.1	ESE	2.07	July 2	92.7	88.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	July 1 at hour 0	5.9	NE	0.00	July 1	92.7	88.1
RH (%)	-	-	-	-	-	-	67.8	26	97	July 1 at hour 4	16.1	NNW	85.2	July 1	92.9	92.9
BP (millibar)	-	-	-	-	-	-	941	932	949	July 1 at hour 12	10.3	NE	947	July 1	92.9	92.9
Ext. Temp. (°C)	-	-	-	-	-	-	16.8	3.5	32.6	July 28 at hour 15	11.5	W	24.0	July 28	92.9	92.9
Stn. Temp. (°C)	-	-	-	-	-	-	23.3	22.7	24.6	July 21 at hour 0	8.2	S	23.8	July 21	92.9	92.9
Precipitation (mm)*	-	-	-	-	-	-	3.1	0.0	1.3	July 16 at hour 4	13.7	SSW	1.8	July 16	92.9	92.9
WSV (km/hr)	-	-	-	-	-	-	4.8	0.3	26.0	July 13 at hour 12	26	SW	16.1	July 9	92.9	92.9
WDV (sector)	-	-	-	-	-	-	210 (SSW)	-	-	-	-	-	-	-	92.9	92.9

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

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

Alberta Ambient Air Quality Objectives (AAAQOs) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) Exceedances at 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 July 10. • No data were recorded between July 26 hour 15 and July 28 hour 8 due to datalogger failure, which was caused by ransomware attacks. A zero-span check was run on July 28 hour 9 after a replacement datalogger was installed to confirm the analyzer's functionality. The analyzer passed the calibration check requirements. Forty-two hours of downtime were recorded due to this event.			
TRS	**Thermo 43iQTL**	**1200736630**	
• The analyzer failed on July 6 due to the TRS converter failure. The CD Nova CDN-101 TRS converter, s/n: 576, was replaced with the CD Nova CDN-101 TRS converter, s/n: 583, on July 10. The channel was back online after a successful post-repair calibration on July 11. One hundred twenty-five hours of downtime were recorded due to this event. • No data were recorded between July 26 hour 15 and July 28 hour 8 due to datalogger failure, which was caused by ransomware attacks. A zero-span check was run on July 28 hour 9 after a replacement datalogger was installed to confirm the analyzer's functionality. The analyzer passed the calibration check requirements. Forty-two hours of downtime were recorded due to this event. • The analyzer showed a significant span drift between July 29 and July 31. A successful repeat zero-span check was completed on July 29. The analyzer passed the monthly calibration check requirements. Data collected between July 29 and July 31 were deemed valid. Two hours of downtime were recorded due to the additional quality check.			
THC/CH4/NMHC	**Thermo / 55i**	**1501663728**	
• A successful monthly calibration was performed on July 10. Extended calibration time was recorded as multiple calibrations were attempted to obtain the acceptable multi-point data, which was caused by CH4 non-linear issues. • No data were recorded between July 26 hour 15 and July 28 hour 8 due to datalogger failure, which was caused by ransomware attacks. A zero-span check was run on July 28 hour 9 after a replacement datalogger was installed to confirm the analyzer's functionality. The analyzer passed the calibration check requirements. Forty-two hours of downtime were recorded due to this event.			

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

- The RH sensor was checked on July 10. The sensor passed the check requirements.
- No data were recorded between July 26 hour 15 and July 28 hour 8 due to datalogger failure, which was caused by ransomware attacks. Forty-two hours of downtime were recorded due to this event.

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

- The BP sensor was checked on July 22. The sensor passed the check requirements.
- No data were recorded between July 26 hour 15 and July 28 hour 8 due to datalogger failure, which was caused by ransomware attacks. Forty-two hours of downtime were recorded due to this event.

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

- The temperature sensor was checked on July 10. The sensor passed the check requirements.
- No data were recorded between July 26 hour 15 and July 28 hour 8 due to datalogger failure, which was caused by ransomware attacks. Forty-two hours of downtime were recorded due to this event.

Station Temperature (ST)	**COMET**	**20790297**	

- No data were recorded between July 26 hour 15 and July 28 hour 8 due to datalogger failure, which was caused by ransomware attacks. Forty-two hours of downtime were recorded due to this event.

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

- The precipitation gauge was checked on July 10. The sensor passed the check requirements.
- No data were recorded between July 26 hour 15 and July 28 hour 8 due to datalogger failure, which was caused by ransomware attacks. Forty-two hours of downtime were recorded due to this event.

Parameter	Make / Model	Serial Number	
Wind Speed/Wind Direction (WS/ WD)	**RM Young / 05305AQ**	**174802**	

- Wind direction data contained in this report represents where the wind is coming from.
- The annual wind system calibration was completed on July 4, 2021.
- The anemometer sensors were checked on July 10. The sensor passed the check requirements.
- No data were recorded between July 26 hour 15 and July 28 hour 8 due to datalogger failure, which was caused by ransomware attacks. Forty-two hours of downtime were recorded due to this event.

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	0	July 1 at hour 0	3.4	E	0.0	July 1	94.4	89.2
TRS (ppb)	-	-	-	-	-	-	0.75	0.27	2.21	July 22 at hour 2	0.2	E	1.08	July 22	77.3	73.1
THC (ppm)	-	-	-	-	-	-	1.87	1.79	2.10	July 26 at hour 3	1.4	ESE	1.95	July 31	94.4	88.8
CH4 (ppm)	-	-	-	-	-	-	1.87	1.79	2.10	July 26 at hour 3	1.4	ESE	1.95	July 31	94.4	88.8
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.09	July 28 at hour 19	11.5	N	0.00	July 31	94.4	88.8
RH (%)	-	-	-	-	-	-	73.2	33	100	July 1 at hour 1	6.7	NW	90.5	July 1	94.4	94.4
BP (millibar)	-	-	-	-	-	-	940	932	948	July 1 at hour 12	7.4	NE	946	July 1	94.4	94.4
Ext. Temp. (°C)	-	-	-	-	-	-	16.9	3.7	31.4	July 28 at hour 16	10.2	W	19.8	July 18	94.4	94.4
Stn. Temp. (°C)	-	-	-	-	-	-	22.8	21.2	24.4	July 11 at hour 2	9	SSW	23.4	July 1	94.4	94.4
Precipitation (mm)*	-	-	-	-	-	-	20.9	0.0	4.7	July 19 at hour 12	10.5	NW	7.3	July 19	94.4	94.2
WSV (km/hr)	-	-	-	-	-	-	4.2	0.0	25.8	July 13 at hour 16	25.8	WSW	15.4	July 9	94.4	94.4
WDV (sector)	-	-	-	-	-	-	228 (SW)	-	-	-	-	-	-	-	94.4	94.4

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

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

Alberta Ambient Air Quality Objectives (AAAQOs) and/or Alberta Ambient Air Quality Guidelines (AAAQGs) Exceedances at 842b Station

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

Reno Station

Equipment Operation Summary

Parameter	Make / Model	Serial Number	
SO2	**Thermo 43iQTL**	**12101910505**	
• A successful monthly calibration was performed on July 21. • A major power outage occurred on July 29 hour 22. The power was back on August 2 hour 18. Fifty hours of downtime were recorded in July due to this event.			
TRS	**Thermo 43iQTL**	**12101910504**	
• A successful monthly calibration was performed on July 21. • A major power outage occurred on July 29 hour 22. The power was back on August 2 hour 18. Fifty hours of downtime were recorded in July due to this event.			
THC/CH4/NMHC	**Thermo / 55i**	**12101910497**	
• A successful monthly calibration was performed on July 21. • A major power outage occurred on July 29 hour 22. The power was back on August 2 hour 18. Fifty hours of downtime were recorded in July due to this event.			
Relative Humidity (RH)	**Rotronic / HC2-S3**	**61116376**	
• The RH sensor was checked on July 21. The sensor passed the check requirements. • A major power outage occurred on July 29 hour 22. The power was back on August 2 hour 18. Fifty hours of downtime were recorded in July due to this event.			
Barometric Pressure (BP)	**MetOne / 092**	**K12864**	
• The BP sensor was checked on July 21. The sensor passed the check requirements. • A major power outage occurred on July 29 hour 22. The power was back on August 2 hour 18. Fifty hours of downtime were recorded in July due to this event. • During the monthly data review, it was noticed that no variations were shown in the data between June 29 hour 15 and July 12 hour 16. Data are not believed to be real readings and were discarded. Two hundred eight-one hours of downtime were recorded in July due to this event.			

Parameter	Make / Model	Serial Number	
Ambient Temperature (AT)	**Rotronic / HC2-S3**	**61116376**	
• The AT sensor was checked on July 21. The sensor passed the check requirements. • A major power outage occurred on July 29 hour 22. The power was back on August 2 hour 18. Fifty hours of downtime were recorded in July due to this event.			
Station Temperature (ST)	**Bureau Veritas Canada**	**N/A**	
• A major power outage occurred on July 29 hour 22. The power was back on August 2 hour 18. Fifty hours of downtime were recorded in July due to this event.			
Precipitation (Precip)	**RM Young / 5202**	**TB15877**	
• The precipitation gauge was checked on July 21. The sensor passed the check requirements. • A major power outage occurred on July 29 hour 22. The power was back on August 2 hour 18. Fifty hours of downtime were recorded in July due to this event.			
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 July 21. The sensor passed the check requirements. • A major power outage occurred on July 29 hour 22. The power was back on August 2 hour 18. Fifty hours of downtime were recorded in July due to this event.			

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	July 3 at hour 2	1.1	SW	0.1	July 21	93.3	88.5
TRS (ppb)	-	-	-	-	-	-	0.27	0.00	3.61	July 27 at hour 5	1.1	SW	0.98	July 27	93.3	88.5
THC (ppm)	-	-	-	-	-	-	2.00	1.94	2.39	July 3 at hour 2	1.1	SW	2.08	July 27	93.3	88.7
CH4 (ppm)	-	-	-	-	-	-	2.00	1.94	2.39	July 3 at hour 2	1.1	SW	2.08	July 27	93.3	88.7
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	July 1 at hour 0	2.5	NE	0.00	July 1	93.3	88.7
RH (%)	-	-	-	-	-	-	63.1	19	97	July 1 at hour 8	7.1	N	86.9	July 1	93.3	93.3
BP (millibar)	-	-	-	-	-	-	938	931	943	July 25 at hour 14	4.6	N	942	July 25	55.5	55.5
Ext. Temp. (°C)	-	-	-	-	-	-	17.6	6.8	33.0	July 28 at hour 16	9	WSW	24.9	July 28	93.3	93.3
Stn. Temp. (°C)	-	-	-	-	-	-	23.7	22.5	24.9	July 1 at hour 3	4	NNE	24.4	July 1	93.3	93.3
Precipitation (mm)*	-	-	-	-	-	-	14.7	0.0	1.6	July 1 at hour 1	4.3	WNW	4.3	July 12	93.3	93.0
WSV (km/hr)	-	-	-	-	-	-	2.6	0.0	18.6	July 13 at hour 15	18.6	WSW	9.6	July 9	93.3	93.3
WDV (sector)	-	-	-	-	-	-	240 (WSW)	-	-	-	-	-	-	-	93.3	93.3

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 July 13. • No operational issues were recorded this month.			
H2S	**Thermo 450i**	**1308857354**	
• A successful monthly calibration was performed on July 13. • No operational issues were recorded this month			
TRS	**Thermo 450i**	**1034746224**	
• Following a successful shut-down calibration on July 15, maintenance was performed, including factory calibration and flash voltage and PMY supply settings adjustments. The analyzer was allowed time to stabilize overnight. A successful post-repair calibration was completed on July 16. Twenty-one hours of downtime were recorded due to this maintenance.			
THC/CH4/NMHC	**Thermo / 55i**	**1022143392**	
• A successful monthly calibration was performed on July 13. • No operational issues were recorded this month.			
Relative Humidity (RH)	**Rotronic C2-S3**	**20558318**	
• The RH sensor was checked on July 14. The sensor passed the check requirements. • No operational issues were recorded this month.			
Ambient Temperature (AT)	**Rotronic C2-S3**	**20558318**	
• The AT sensor was checked on July 14. The sensor passed the check requirements. • No operational issues were recorded this month.			

Parameter	Make / Model	Serial Number	
Barometric Pressure (BP)	**MetOne 092**	**B19577**	
• The BP sensor was checked on July 14. The sensor passed the check requirements. • During the monthly data review, it was noticed that no variations were shown in the data between July 1 hour 0 and August 1 hour 5. Data are not believed to be real readings and were discarded. Seven hundred forty-four hours of downtime were recorded July.			
Station Temperature (ST)	**Canadian Natural**	**N/A**	
• No operational issues were recorded 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. • The anemometer sensors were checked on July 14. The sensor passed the check requirements. • No operational issues were recorded this month.			

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	July 4 at hour 9	8.1	ENE	0.1	July 18	100.0	94.9
TRS (ppb)	-	-	-	-	-	-	0.2	0	4	July 22 at hour 2	6.5	SW	0.00	July 5	97.2	92.0
THC (ppm)	-	-	-	-	-	-	1.99	1.90	2.21	July 26 at hour 4	6.5	S	2.05	July 2	100.0	95.0
CH4 (ppm)	-	-	-	-	-	-	1.99	1.90	2.21	July 26 at hour 4	6.5	S	2.05	July 2	100.0	95.0
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.00	July 1 at hour 0	5.6	ENE	0.00	July 1	100.0	95.0
RH (%)	-	-	-	-	-	-	65.5	24	99	July 1 at hour 4	10.8	NW	87.1	July 1	100.0	100.0
BP (millibar)*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0
Ext. Temp. (°C)	-	-	-	-	-	-	17.0	2.7	32.6	July 28 at hour 15	19	WSW	24.9	July 28	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	20.1	18.7	24.6	July 15 at hour 19	4.8	WSW	21.6	July 14	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	5.8	0.3	33.6	July 13 at hour 17	33.6	WSW	20.2	July 9	100.0	100.0
WDV (sector)	-	-	-	-	-	-	219 (SW)	-	-	-	-	-	-	-	100.0	100.0

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

* No valid data were recorded in July

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 July 11. • No operational issues were identified this month.			
TRS	**Teledyne / T100U**	**132**	
• Significant span drift was noticed between July 1 and July 11. This appeared to be due to an incorrect expected span value which was entered from the June calibration. A successful monthly calibration was performed on July 11. The expected span value was adjusted afterwards. • Significant span drift was noticed again between July 29 and July 31. A successful zero-span check was completed on July 29 to confirm the analyzer's functionality. The issue corrected itself after July 31 and no further action was required. One hour of downtime was recorded due to the additional quality check.			
NOx/NO/NO2	**Teledyne / T200**	**837**	
• The analyzer failed at the lowest GPT point check of the monthly calibration on July 11. As no issues could be identified, the analyzer was reset to the as-found status, and the channels were left offline overnight. The monthly calibration was performed on July 12 without issue. Eighteen hours of downtime were recorded due to this event.			
O3	**API 400A / Teledyne T400**	**445 / 824**	
• Following a successful shut-down calibration on July 12, the BV-supplied API 400A analyzer, s/n: 445, was removed, and the PRAMP-owned Teledyne T400 analyzer, was installed. One hour of downtime was recorded due to this event.			
THC/CH4/NMHC	**Thermo / 55i**	**1191032505**	
• A successful monthly calibration was performed on July 12. • No operational issues were identified this month.			

Parameter	Make / Model	Serial Number	
PM2.5	**Teledyne / T640**	**318**	
• A successful monthly calibration was performed on July 22. • No operational issues were identified this month.			
Relative Humidity (RH)	**Vaisala / HMP155**	**N2910506**	
• The sensor was checked on July 11. The sensor passed the check requirements. • No operational issues were identified this month.			
Barometric Pressure (BP)	**MetOne / 092**	**A2397**	
• The sensor was checked on July 11. The sensor passed the check requirements. • No operational issues were identified this month.			
Ambient Temperature (AT)	**Vaisala / HMP155**	**N2910506**	
• The sensor was checked on July 11. 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 anemometer sensors were checked on July 11. The sensor passed the check requirements. • An annual wind system calibration was completed on July 12, 2022. • 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	July 18 at hour 8	14.9	SW	0.0	July 18	100.0	95.0
TRS (ppb)	-	-	-	-	-	-	0.42	0.12	6.25	July 2 at hour 4	5.3	NNW	1.00	July 2	99.9	94.9
NOx (ppb)	-	-	-	-	-	-	2.6	0	15	July 20 at hour 8	15.2	W	5.9	July 14	97.6	92.4
NO (ppb)	-	-	-	-	-	-	0.5	0	10	July 20 at hour 8	15.2	W	2.6	July 14	97.6	92.4
NO2 (ppb)	159	-	-	0	-	-	2.1	0	10	July 3 at hour 4	1.5	NW	3.6	July 3	97.6	92.4
O3 (ppb)	76	-	-	0	-	-	22.9	4	46	July 3 at hour 17	5.2	SSW	32.1	July 3	99.9	94.7
THC (ppm)	-	-	-	-	-	-	1.99	1.92	2.41	July 27 at hour 4	1	NW	2.04	July 27	100.0	95.1
CH4 (ppm)	-	-	-	-	-	-	1.99	1.92	2.37	July 27 at hour 4	1	NW	2.03	July 27	100.0	95.1
NMHC (ppm)	-	-	-	-	-	-	0.00	0.00	0.08	July 25 at hour 18	7.2	NNW	0.01	July 27	100.0	95.1
PM2.5 (µg/m3)	80	30	-	0	0	-	7.5	1.0	56.0	July 27 at hour 15	10.1	S	21.4	July 28	100.0	99.9
RH (%)	-	-	-	-	-	-	62.9	23	99	July 8 at hour 2	5.7	SW	81.9	July 1	100.0	100.0
BP (millibar)	-	-	-	-	-	-	942	933	950	July 1 at hour 14	9.7	NE	948	July 1	100.0	100.0
Ext. Temp. (°C)	-	-	-	-	-	-	18.0	7.6	33.1	July 28 at hour 15	13.1	WSW	24.9	July 28	100.0	100.0
Stn. Temp. (°C)	-	-	-	-	-	-	22.0	20.9	23.7	July 28 at hour 16	13.3	WNW	22.5	July 1	100.0	100.0
WSV (km/hr)	-	-	-	-	-	-	9.0	0.2	27.1	July 13 at hour 15	27.1	WSW	17.1	July 13	100.0	99.6
WDV (sector)	-	-	-	-	-	-	252 (WSW)	-	-	-	-	-	-	-	100.0	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 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 - July 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

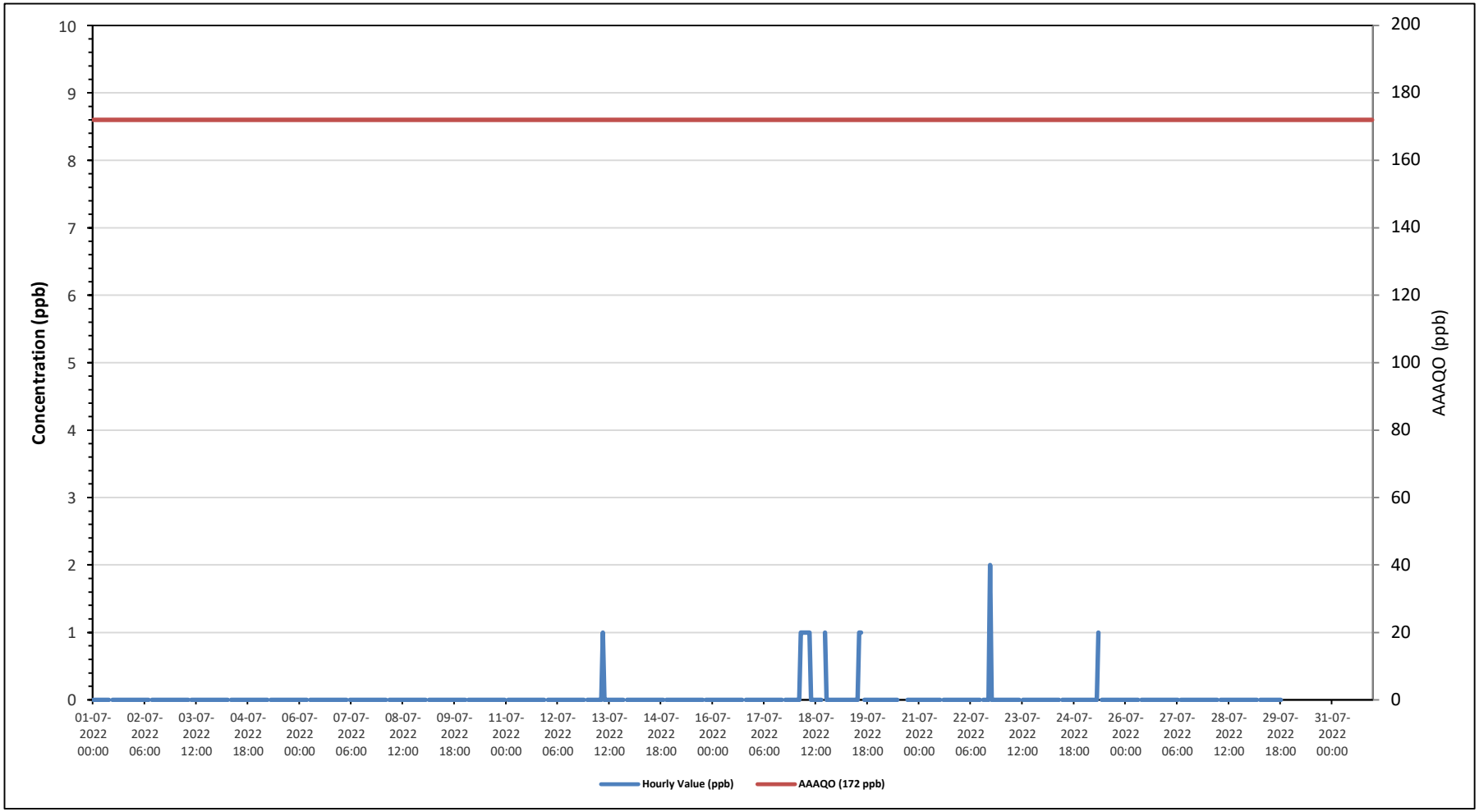
Maximum Hourly Value:	2	ppb	on July 22 at hour 17	Hours in Service:	744
Maximum Daily Value:	0.3	ppb	on July 18	Hours of Data:	657
Minimum Hourly Value:	0	ppb	on July 1 at hour 0	Hours of Missing Data:	53
Minimum Daily Value:	0.0	ppb	on July 1	Hours of Calibration:	34
Monthly Average:	0.0	ppb		Operational Uptime:	92.9

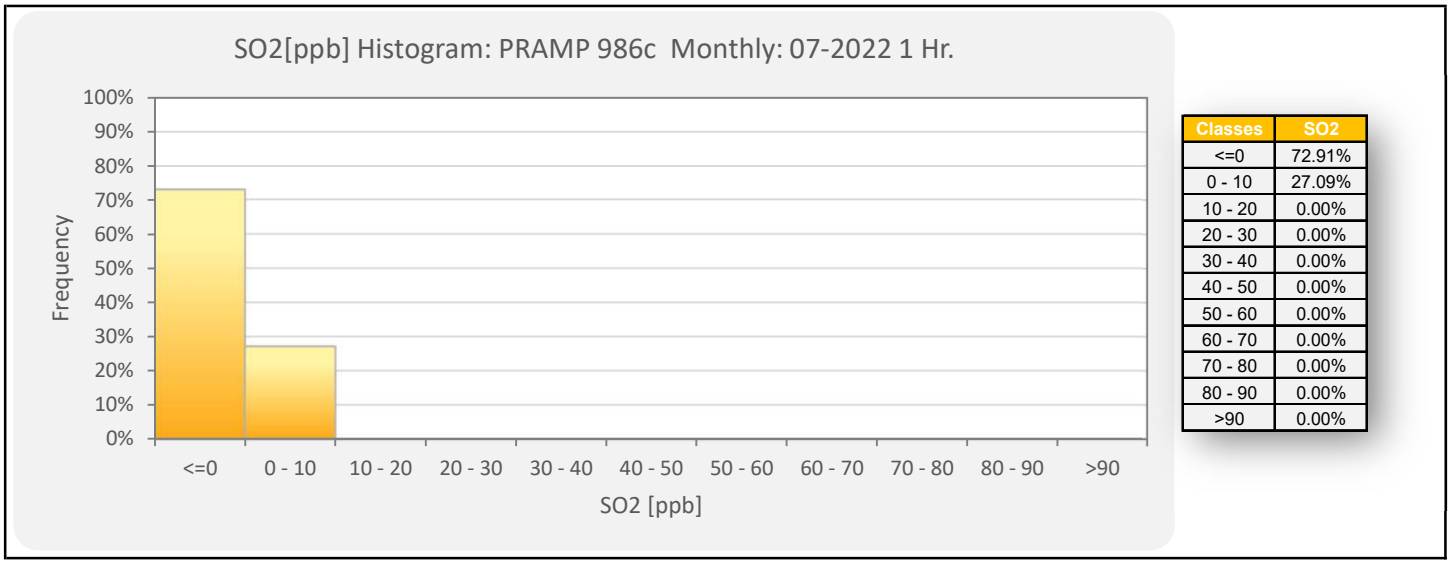
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 2	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 3	0	0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

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

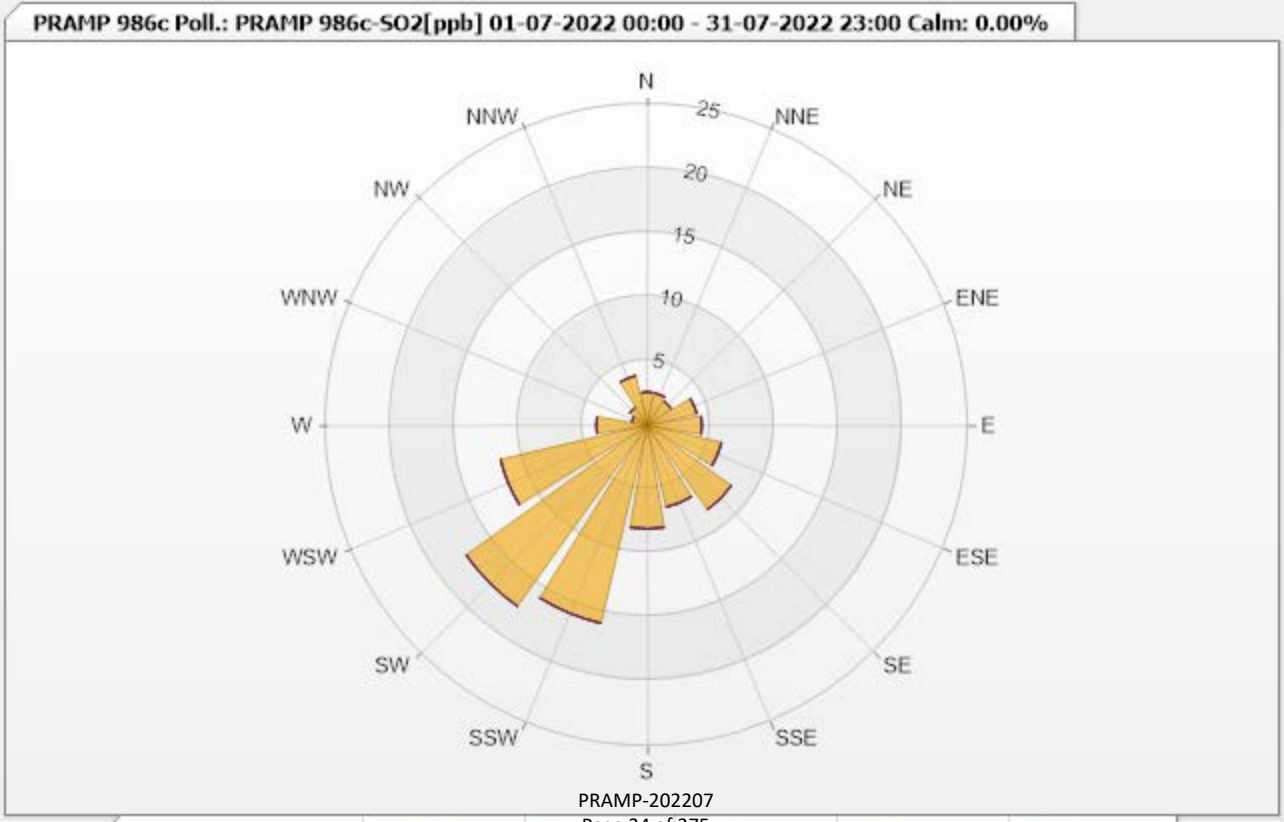




Classes	SO2
<=0	72.91%
0 - 10	27.09%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-SO2[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.31% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	2.59	0	0	0	0	2.59
NNE	2.59	0	0	0	0	2.59
NE	2.28	0	0	0	0	2.28
ENE	3.96	0	0	0	0	3.96
E	4.26	0	0	0	0	4.26
ESE	5.94	0	0	0	0	5.94
SE	8.07	0	0	0	0	8.07
SSE	6.54	0	0	0	0	6.54
S	8.07	0	0	0	0	8.07
SSW	15.83	0	0	0	0	15.83
SW	17.35	0	0	0	0	17.35
WSW	11.72	0	0	0	0	11.72
W	3.96	0	0	0	0	3.96
WNW	1.22	0	0	0	0	1.22
NW	1.67	0	0	0	0	1.67
NNW	3.96	0	0	0	0	3.96
Summary	100	0	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-SO2[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
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 - July 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

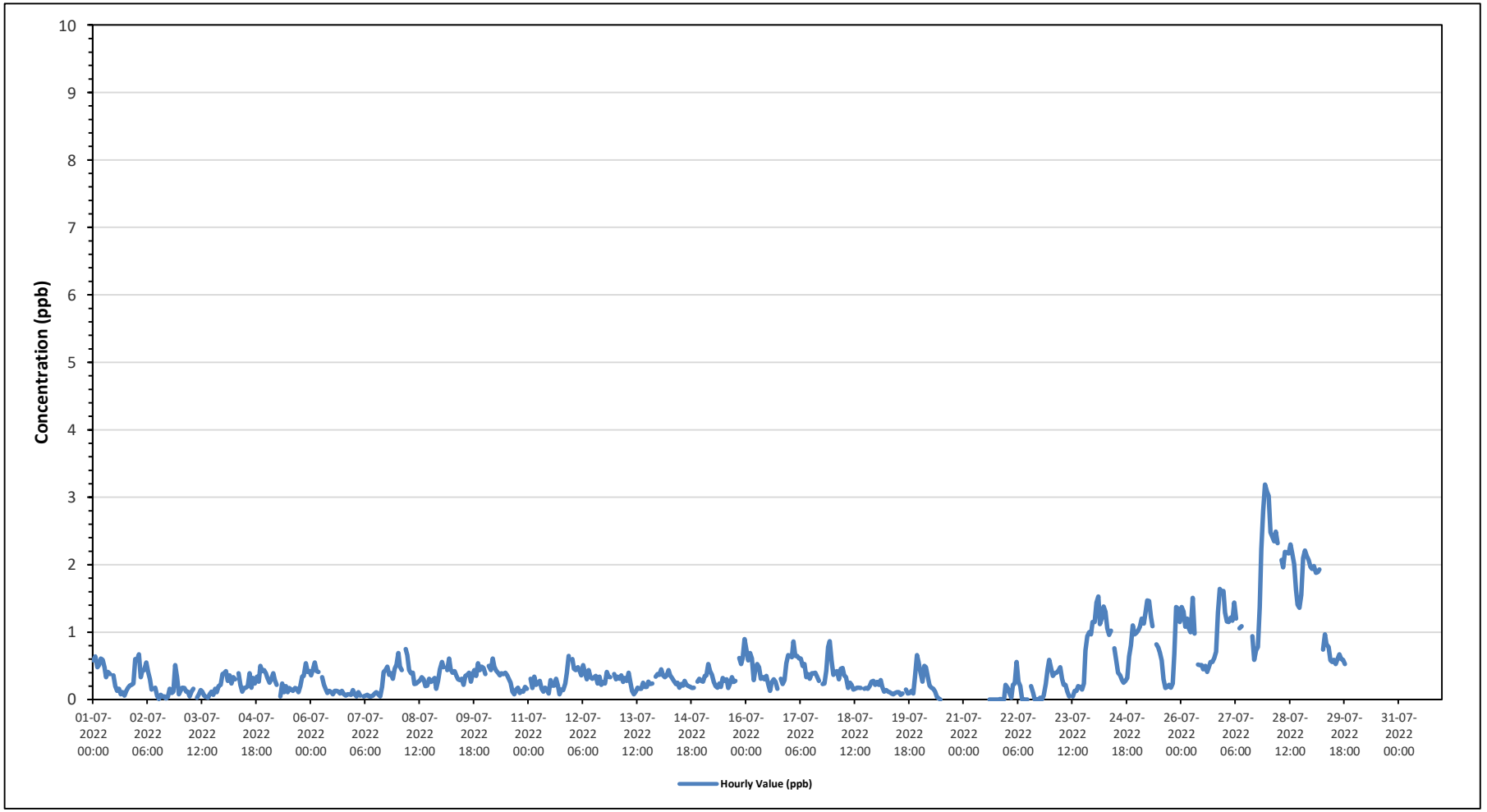
Maximum Hourly Value:	3.19	ppb	on July 27 at hour 22	Hours in Service:	744
Maximum Daily Value:	2.11	ppb	on July 28	Hours of Data:	633
Minimum Hourly Value:	0.00	ppb	on July 20 at hour 11	Hours of Missing Data:	72
Minimum Daily Value:	0.13	ppb	on July 3	Hours of Calibration:	39
Monthly Average:	0.47	ppb		Operational Uptime:	90.3

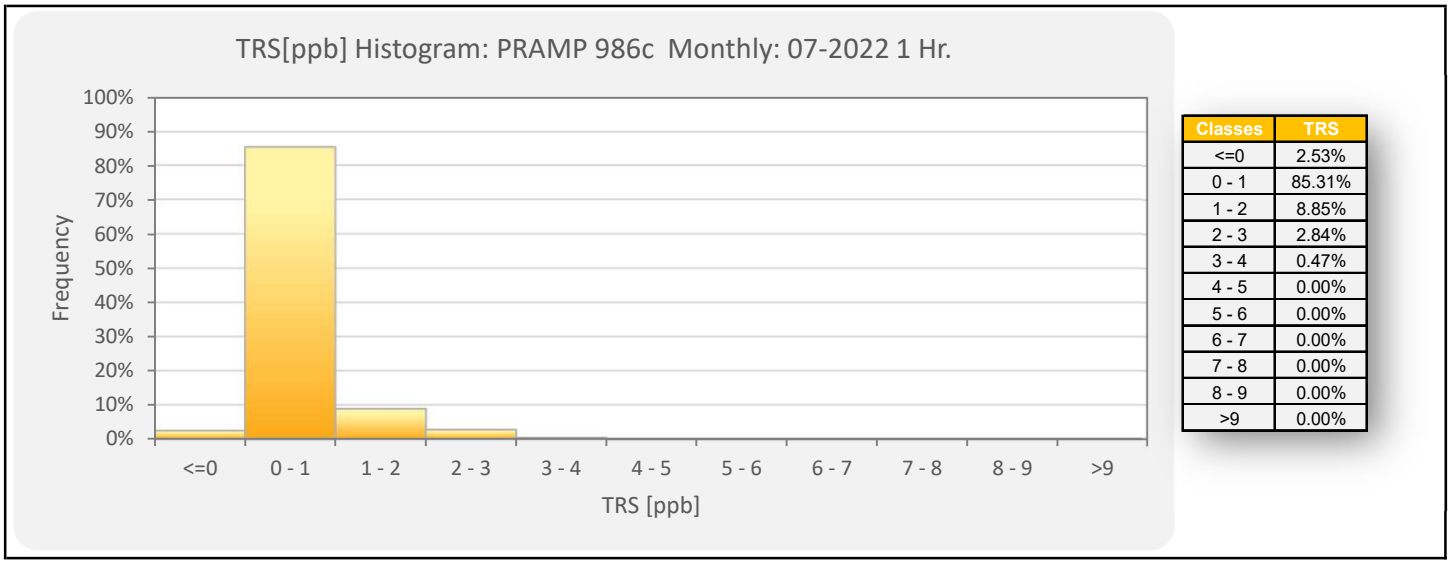
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	0.58	0.64	0.48	0.51	0.61	0.59	0.48	0.33	0.41	0.38	S	0.36	0.2	0.13	0.16	0.08	0.11	0.06	0.13	0.17	0.21	0.22	0.24	0.6	0.06	0.64	0.33
Jul 2	0.59	0.67	0.33	0.43	0.44	0.55	0.41	0.3	0.15	S	0.18	0.06	0.01	0.07	0.04	0.05	0.02	0.04	0.16	0.1	0.12	0.51	0.33	0.08	0.01	0.67	0.25
Jul 3	0.13	0.18	0.17	0.12	0.12	0.05	0.12	0.16	S	0.03	0.08	0.14	0.12	0.06	0.04	0.03	0.08	0.12	0.07	0.16	0.11	0.2	0.22	0.38	0.03	0.38	0.13
Jul 4	0.39	0.42	0.28	0.36	0.24	0.33	0.3	S	0.39	0.22	0.12	0.17	0.18	0.2	0.39	0.18	0.32	0.24	0.34	0.27	0.5	0.42	0.44	0.39	0.12	0.50	0.31
Jul 5	0.32	0.25	0.31	0.39	0.29	0.22	S	0.05	0.24	0.11	0.2	0.11	0.17	0.15	0.13	0.17	0.16	0.11	0.2	0.34	0.35	0.54	0.41	0.42	0.05	0.54	0.25
Jul 6	0.36	0.45	0.55	0.42	0.41	S	0.33	0.22	0.16	0.1	0.13	0.11	0.08	0.13	0.13	0.12	0.09	0.13	0.08	0.06	0.08	0.08	0.07	0.14	0.06	0.55	0.19
Jul 7	0.08	0.05	0.11	0.06	S	0.05	0.06	0.07	0.05	0.05	0.06	0.09	0.11	0.08	0.05	0.19	0.41	0.44	0.49	0.37	0.39	0.31	0.46	0.52	0.05	0.52	0.20
Jul 8	0.69	0.49	0.44	S	0.75	0.66	0.44	0.39	0.4	0.23	0.24	0.27	0.29	0.33	0.3	0.2	0.21	0.31	0.26	0.29	0.32	0.16	0.28	0.45	0.16	0.75	0.37
Jul 9	0.56	0.48	S	0.44	0.61	0.45	0.4	0.42	0.35	0.3	0.29	0.31	0.22	0.35	0.37	0.4	0.27	0.37	0.44	0.35	0.54	0.44	0.49	0.47	0.22	0.61	0.41
Jul 10	0.38	S	0.5	0.44	0.61	0.49	0.43	0.4	0.36	0.39	0.38	0.4	0.36	0.31	0.25	0.12	0.08	0.15	0.18	0.1	0.13	0.12	0.19	0.16	0.08	0.61	0.30
Jul 11	S	0.31	0.17	0.34	0.22	0.24	0.28	0.16	0.12	0.18	0.15	0.09	0.29	0.21	0.21	0.31	0.21	0.08	0.15	0.14	0.24	0.4	0.65	S	0.08	0.65	0.23
Jul 12	0.6	0.46	0.44	0.48	0.42	0.36	0.51	0.4	0.3	0.44	0.33	0.31	0.33	0.35	0.24	0.34	0.22	0.26	0.24	0.41	0.34	0.33	S	0.38	0.22	0.60	0.37
Jul 13	0.3	0.34	0.31	0.36	0.26	0.32	0.28	0.4	0.25	0.13	0.08	0.12	0.18	0.16	0.16	0.25	0.19	0.19	0.27	0.23	0.24	S	0.34	0.38	0.08	0.40	0.25
Jul 14	0.37	0.45	0.36	0.33	0.36	0.44	0.36	0.32	0.28	0.23	0.25	0.18	0.23	0.21	0.28	0.22	0.2	0.19	0.17	0.18	S	0.27	0.31	0.28	0.17	0.45	0.28
Jul 15	0.27	0.35	0.36	0.53	0.42	0.37	0.26	0.2	0.18	0.24	0.19	0.32	0.28	0.3	0.17	0.24	0.33	0.26	0.28	S	0.62	0.53	0.62	0.9	0.17	0.90	0.36
Jul 16	0.74	0.58	0.69	0.61	0.29	0.47	0.53	0.48	0.31	0.33	0.3	0.35	0.23	0.13	0.25	0.3	0.26	0.16	S	0.31	0.23	0.29	0.54	0.66	0.13	0.74	0.39
Jul 17	0.65	0.63	0.86	0.65	0.65	0.61	0.61	0.5	0.53	0.33	0.38	0.31	0.39	0.39	0.4	0.34	0.28	S	0.23	0.24	0.43	0.78	0.87	0.58	0.23	0.87	0.51
Jul 18	0.37	0.41	0.42	0.3	0.46	0.47	0.36	0.33	0.17	0.25	0.22	0.15	0.16	0.18	0.18	0.17	S	0.16	0.17	0.16	0.2	0.27	0.28	0.22	0.15	0.47	0.26
Jul 19	0.26	0.22	0.29	0.19	0.12	0.14	0.12	0.11	0.09	0.08	0.1	0.11	0.11	0.07	0.09	S	0.15	0.09	0.1	0.13	0.09	0.36	0.66	0.56	0.07	0.66	0.18
Jul 20	0.41	0.27	0.5	0.48	0.34	0.21	0.18	0.16	0.12	0.04	0.02	0	C	C	C	C	C	C	NRM	NRM	NRM	NRM	NRM	NRM	0.00	0.50	-
Jul 21	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	0	S	0	0	0	0	0	0	0.01	0	0	0.22	0.00	0.22	-
Jul 22	0.17	0.1	0.03	0.22	0.24	0.56	0.27	0.2	0	0	0	0	S	0.2	0.1	0	0	0	0.03	0	0.06	0.23	0.45	0.59	0.00	0.59	0.15
Jul 23	0.47	0.35	0.39	0.4	0.43	0.48	0.31	0.22	0.22	0.12	0.05	S	0.05	0.13	0.13	0.2	0.19	0.15	0.24	0.73	0.94	1	0.97	1.15	0.05	1.15	0.41
Jul 24	1.15	1.44	1.53	1.12	1.2	1.38	1.3	1.06	0.96	1.02	S	0.76	0.58	0.4	0.36	0.29	0.25	0.28	0.32	0.64	0.81	1.1	0.97	0.99	0.25	1.53	0.87
Jul 25	1.02	1.08	1.2	1.13	1.28	1.47	1.46	1.23	1.09	S	0.82	0.77	0.7	0.58	0.3	0.17	0.19	0.22	0.18	0.24	0.67	1.37	1.35	1.15	0.17	1.47	0.86
Jul 26	1.37	1.31	1.08	1.2	1.06	1	1.51	0.98	S	0.52	0.51	0.51	0.45	0.5	0.41	0.49	0.56	0.56	0.62	0.71	1.29	1.64	1.6	1.61	0.41	1.64	0.93
Jul 27	1.29	1.16	1.15	1.22	1.17	1.44	1.2	S	1.06	1.09	NRM	NRM	NRM	NRM	NRM	0.94	0.59	0.73	0.78	1.37	2.23	2.79	3.19	3.08	0.59	3.19	1.47
Jul 28	3.02	2.48	2.41	2.35	2.49	2.32	S	2.07	1.96	2.19	2.18	2.17	2.3	2.16	2.01	1.63	1.41	1.36	1.55	2.1	2.21	2.13	2.07	1.97	1.36	3.02	2.11
Jul 29	1.94	1.98	1.88	1.89	1.93	S	0.74	0.97	0.82	0.78	0.58	0.56	0.59	0.53	0.6	0.67	0.6	0.59	0.53	P	P	P	P	P	0.53	1.98	1.01
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Diurnal Maximum	3.02	2.48	2.41	2.35	2.49	2.32	1.51	2.07	1.96	2.19	2.18	2.17	2.30	2.16	2.01	1.63	1.41	1.36	1.55	2.10	2.23	2.79	3.19	3.08			
Diurnal Average	0.68	0.65	0.64	0.63	0.65	0.60	0.51	0.47	0.42	0.38	0.31	0.34	0.33	0.32	0.29	0.30	0.27	0.27	0.30	0.38	0.51	0.63	0.69	0.71			

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

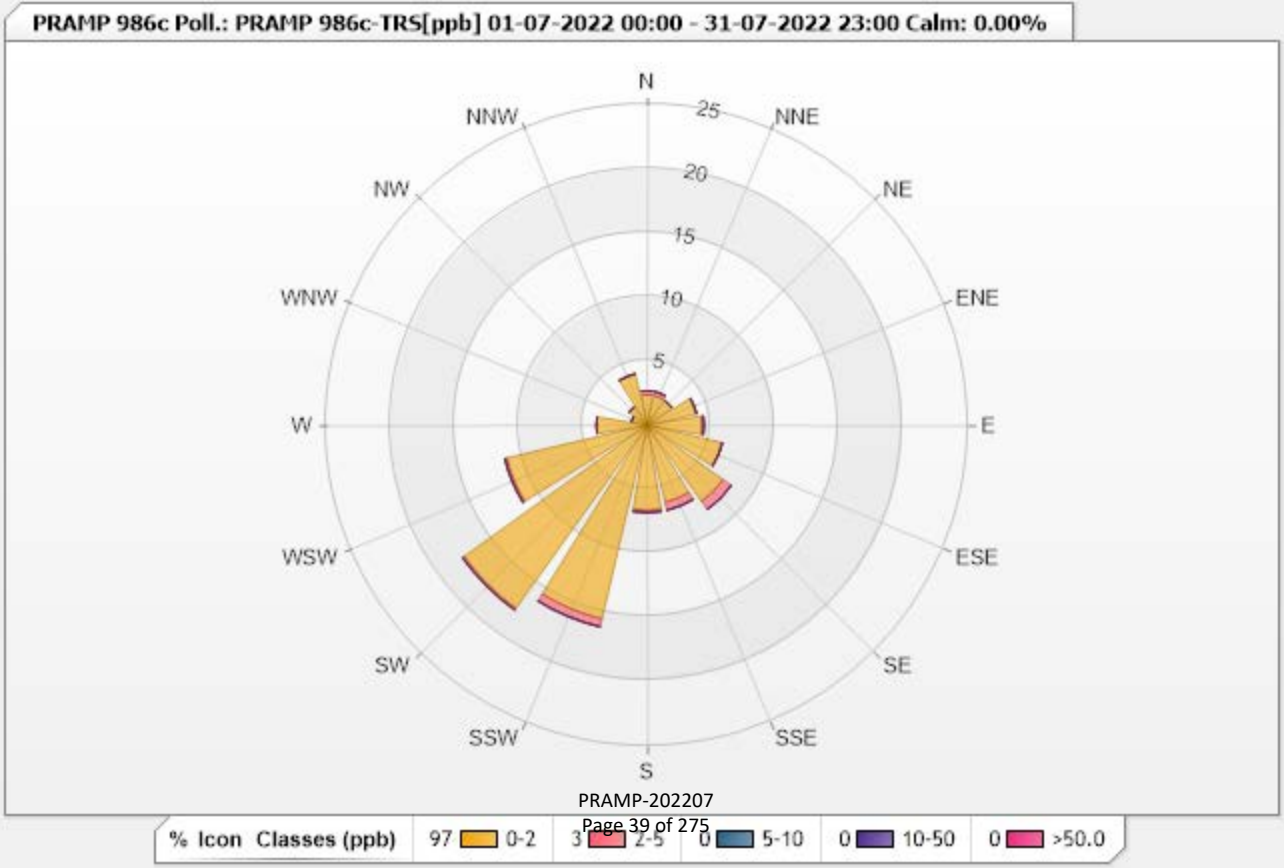




Classes	TRS
<=0	2.53%
0 - 1	85.31%
1 - 2	8.85%
2 - 3	2.84%
3 - 4	0.47%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-TRS[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 85.08% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	2.37	0.32	0	0	0	2.69
NNE	2.37	0.32	0	0	0	2.69
NE	2.37	0	0	0	0	2.37
ENE	3.95	0	0	0	0	3.95
E	4.27	0.16	0	0	0	4.43
ESE	6	0	0	0	0	6
SE	7.27	0.79	0	0	0	8.06
SSE	6.16	0.63	0	0	0	6.79
S	6.64	0.16	0	0	0	6.8
SSW	15.48	0.63	0	0	0	16.11
SW	17.54	0.16	0	0	0	17.7
WSW	11.22	0.16	0	0	0	11.38
W	3.95	0	0	0	0	3.95
WNW	1.26	0	0	0	0	1.26
NW	1.74	0	0	0	0	1.74
NNW	4.11	0	0	0	0	4.11
Summary	96.7	3.33	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-TRS[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (ppb)
97 0-2
3 2-5
0 5-10
0 10-50
0 >50.0

peace river area monitoring program
pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - July 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

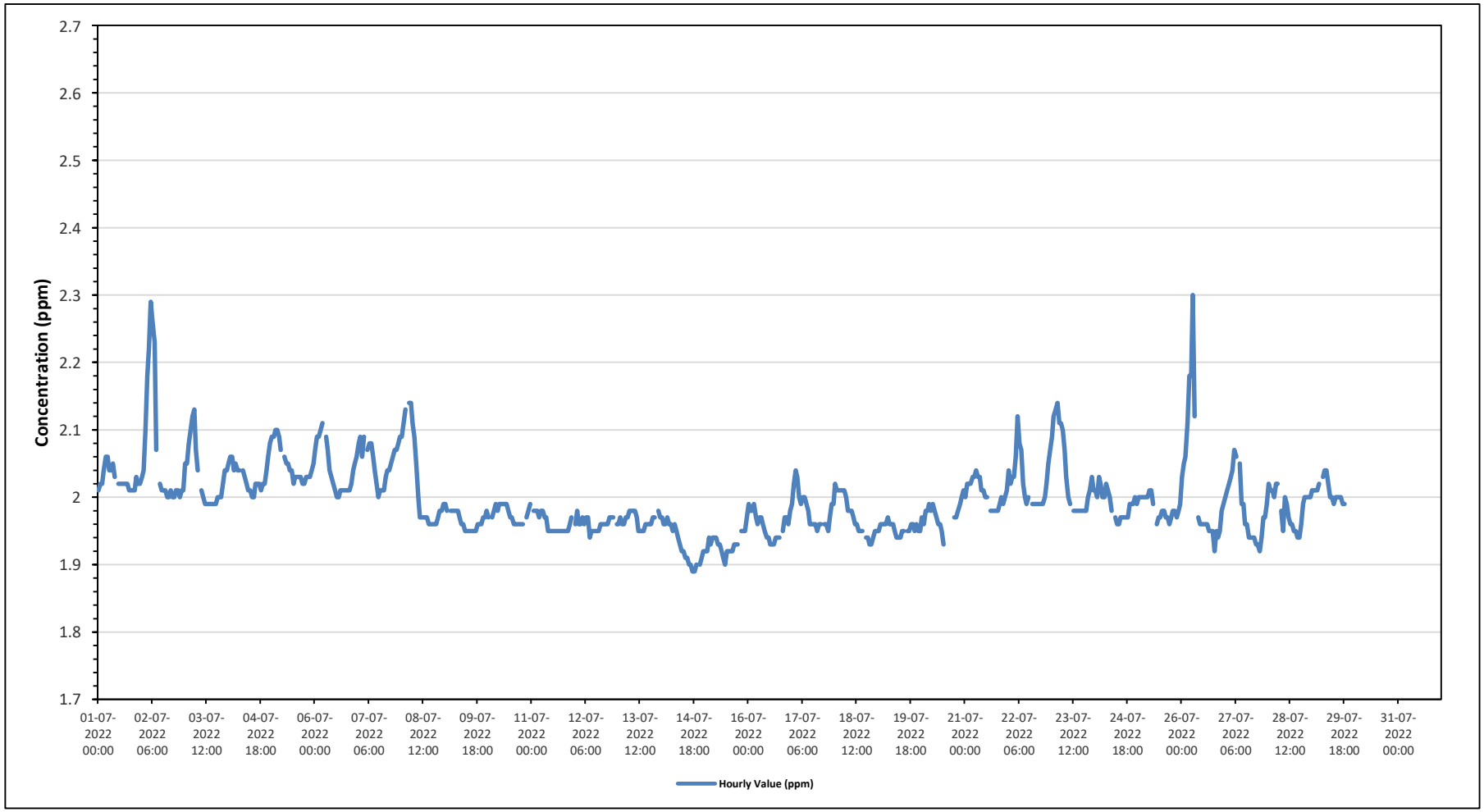
Maximum Hourly Value:	2.30	ppm	on July 26 at hour 6	Hours in Service:	744
Maximum Daily Value:	2.07	ppm	on July 2	Hours of Data:	656
Minimum Hourly Value:	1.89	ppm	on July 14 at hour 17	Hours of Missing Data:	54
Minimum Daily Value:	1.93	ppm	on July 14	Hours of Calibration:	34
Monthly Average:	2.00	ppm		Operational Uptime:	92.7

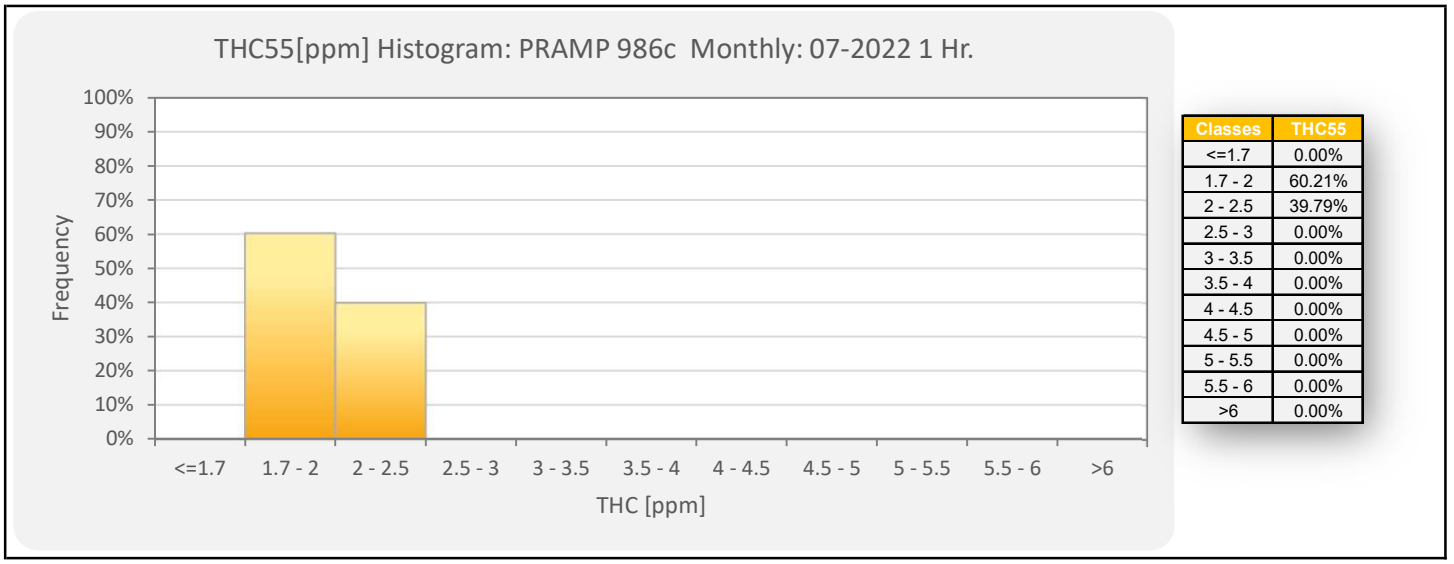
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	2.01	2.02	2.02	2.04	2.06	2.06	2.04	2.04	2.05	2.03	S	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.03	2.02	2.02	2.01	2.06	2.03
Jul 2	2.03	2.04	2.10	2.18	2.22	2.29	2.26	2.23	2.07	S	2.02	2.01	2.01	2.01	2.00	2.00	2.01	2.00	2.00	2.01	2.01	2.00	2.01	2.01	2.00	2.29	**2.07**
Jul 3	2.05	2.05	2.08	2.10	2.12	2.13	2.07	2.04	S	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.02	2.04	2.04	1.99	2.13	2.03
Jul 4	2.05	2.06	2.06	2.04	2.05	2.04	2.04	S	2.04	2.03	2.02	2.01	2.01	2.00	2.00	2.02	2.02	2.02	2.01	2.02	2.02	2.04	2.06	2.08	2.00	2.08	2.03
Jul 5	2.09	2.09	2.10	2.10	2.09	2.07	S	2.06	2.05	2.05	2.04	2.04	2.02	2.03	2.03	2.03	2.03	2.02	2.02	2.03	2.03	2.03	2.04	2.05	2.02	2.10	2.05
Jul 6	2.07	2.09	2.09	2.10	2.11	S	2.09	2.07	2.04	2.03	2.02	2.01	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.04	2.05	2.06	2.00	2.11	2.04
Jul 7	2.08	2.09	2.06	2.09	S	2.07	2.08	2.08	2.06	2.04	2.02	2.00	2.01	2.01	2.01	2.03	2.04	2.04	2.05	2.06	2.07	2.07	2.08	2.09	2.00	2.09	2.05
Jul 8	2.09	2.11	2.13	S	2.14	2.14	2.11	2.09	2.05	2.00	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.97	1.98	1.98	1.99	1.96	2.14	2.02
Jul 9	1.99	1.98	S	1.98	1.98	1.98	1.98	1.98	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.97	1.97	1.98	1.95	1.99	1.97
Jul 10	1.97	S	1.97	1.98	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	NRM	1.97	1.98	1.99	1.96	1.99	1.98
Jul 11	S	1.98	1.98	1.98	1.97	1.98	1.98	1.97	1.97	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	1.97	S	1.95	1.98	1.96
Jul 12	1.96	1.98	1.96	1.96	1.97	1.96	1.97	1.97	1.94	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	S	1.96	1.94	1.98	1.96
Jul 13	1.96	1.97	1.96	1.96	1.97	1.97	1.98	1.98	1.98	1.98	1.97	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.97	1.97	S	1.98	1.97	1.95	1.98	1.97
Jul 14	1.97	1.96	1.96	1.97	1.96	1.96	1.95	1.96	1.95	1.94	1.93	1.92	1.92	1.91	1.91	1.90	1.90	1.89	1.89	1.90	S	1.90	1.91	1.92	**1.89**	1.97	1.93
Jul 15	1.92	1.92	1.94	1.93	1.94	1.94	1.94	1.93	1.93	1.92	1.91	1.90	1.92	1.92	1.92	1.92	1.93	1.93	1.93	S	1.95	1.95	1.95	1.97	1.90	1.97	1.93
Jul 16	1.99	1.98	1.98	1.99	1.97	1.96	1.97	1.97	1.96	1.95	1.94	1.94	1.93	1.93	1.93	1.94	1.94	1.94	S	1.95	1.97	1.97	1.96	1.98	1.93	1.99	1.96
Jul 17	1.99	2.02	2.04	2.03	2.00	1.99	2.00	2.00	1.99	1.98	1.96	1.96	1.96	1.96	1.95	1.96	1.96	S	1.96	1.96	1.95	1.97	1.99	1.99	1.95	2.04	1.98
Jul 18	2.02	2.01	2.01	2.01	2.01	2.01	2.00	1.98	1.98	1.98	1.97	1.96	1.96	1.95	1.95	1.95	S	1.94	1.94	1.93	1.93	1.94	1.95	1.95	1.93	2.02	1.97
Jul 19	1.95	1.96	1.96	1.96	1.96	1.97	1.96	1.96	1.96	1.95	1.94	1.94	1.94	1.95	1.95	S	1.95	1.95	1.96	1.96	1.95	1.96	1.95	1.95	1.94	1.97	1.95
Jul 20	1.97	1.96	1.98	1.98	1.99	1.98	1.99	1.98	1.97	1.96	1.96	1.95	1.93	C	C	C	C	C	1.97	1.97	1.98	1.99	2.00	2.01	1.93	2.01	1.97
Jul 21	2.00	2.02	2.02	2.02	2.03	2.03	2.04	2.03	2.03	2.01	2.01	2.00	2.00	S	1.98	1.98	1.98	1.98	1.98	1.99	2.00	1.99	2.00	2.01	1.98	2.04	2.01
Jul 22	2.04	2.02	2.03	2.03	2.06	2.12	2.08	2.07	2.02	2.00	1.99	2.00	S	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.02	2.05	2.07	1.99	2.12	2.02
Jul 23	2.09	2.12	2.13	2.14	2.11	2.11	2.10	2.07	2.03	2.00	1.99	S	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	2.00	2.01	2.03	2.01	1.98	2.14	2.03
Jul 24	2.01	2.00	2.03	2.02	2.00	2.00	2.02	2.01	2.00	1.98	S	1.97	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.99	1.99	1.99	2.00	1.99	1.96	2.03	1.99
Jul 25	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	1.99	S	1.96	1.97	1.97	1.98	1.98	1.97	1.97	1.96	1.97	1.98	1.98	1.97	1.98	1.99	1.96	2.01	1.98
Jul 26	2.03	2.05	2.06	2.11	2.18	2.18	**2.30**	2.12	S	1.97	1.96	1.96	1.96	1.96	1.96	1.95	1.95	1.95	1.92	1.95	1.94	1.95	1.98	1.99	1.92	**2.30**	2.02
Jul 27	2.00	2.01	2.02	2.03	2.04	2.07	2.06	S	2.05	1.99	1.99	1.96	1.96	1.94	1.94	1.94	1.94	1.93	1.93	1.92	1.94	1.97	1.97	1.99	1.92	2.07	1.98
Jul 28	2.02	2.01	2.01	2.00	2.02	2.02	S	1.98	1.95	2.00	1.99	1.97	1.96	1.96	1.95	1.95	1.94	1.94	1.96	1.99	2.00	2.00	2.00	2.00	1.94	2.02	1.98
Jul 29	2.01	2.01	2.01	2.01	2.02	S	2.03	2.04	2.04	2.02	2.00	2.00	1.99	2.00	2.00	2.00	2.00	1.99	1.99	P	P	P	P	P	1.99	2.04	2.01
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Diurnal Maximum	2.09	2.12	2.13	2.18	2.22	2.29	2.30	2.23	2.07	2.05	2.04	2.04	2.02	2.03	2.03	2.03	2.04	2.04	2.05	2.06	2.07	2.07	2.08	2.09			
Diurnal Average	2.01	2.02	2.02	2.03	2.03	2.04	2.04	2.02	2.00	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.99	2.00	2.00			

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

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

Timeseries Chart of Hourly Average for THC - 986c Station

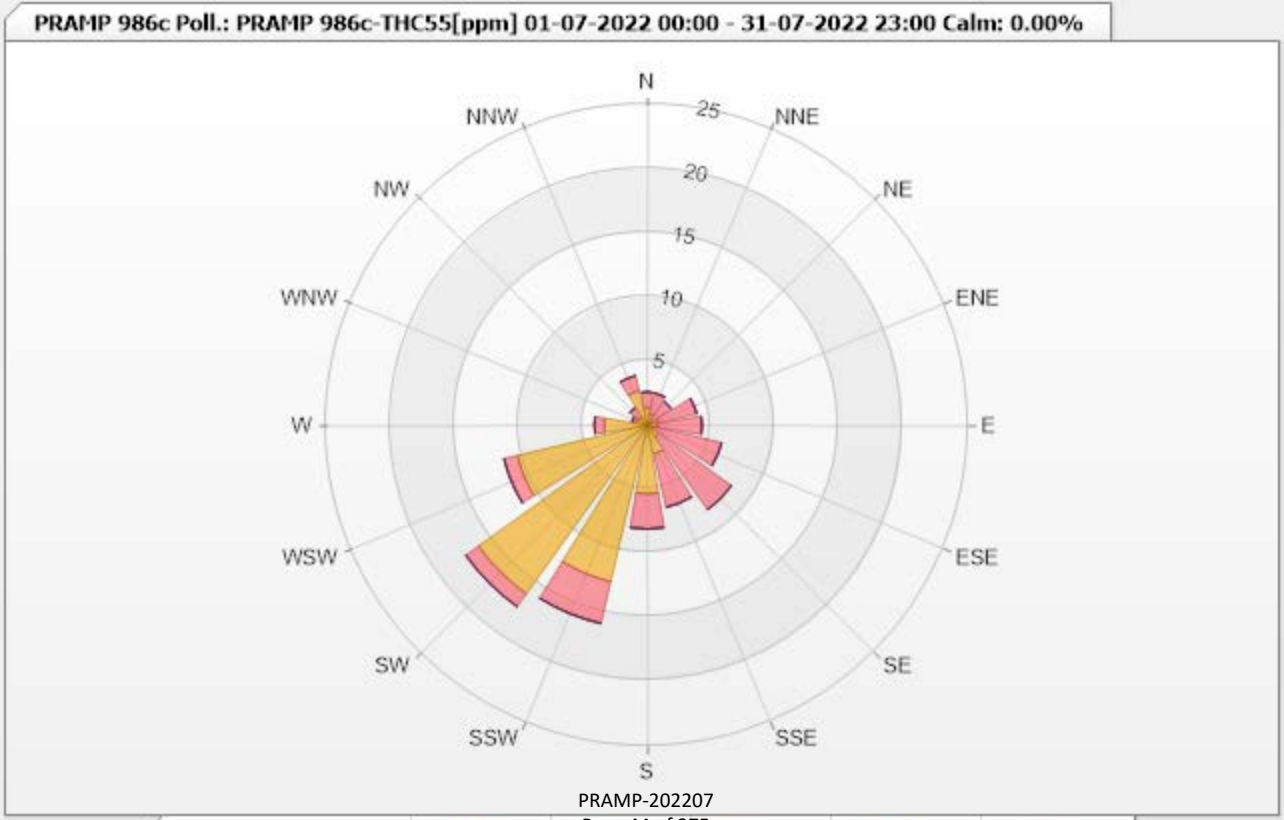




Classes	THC55
<=1.7	0.00%
1.7 - 2	60.21%
2 - 2.5	39.79%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-THC55[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.17% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	1.37	1.22	0	0	0	2.59
NNE	0.91	1.68	0	0	0	2.59
NE	0.3	1.98	0	0	0	2.28
ENE	0.91	3.05	0	0	0	3.96
E	0.76	3.51	0	0	0	4.27
ESE	0.46	5.49	0	0	0	5.95
SE	1.07	7.01	0	0	0	8.08
SSE	2.29	4.27	0	0	0	6.56
S	5.34	2.74	0	0	0	8.08
SSW	12.5	3.35	0	0	0	15.85
SW	16.16	1.22	0	0	0	17.38
WSW	10.37	1.07	0	0	0	11.44
W	3.35	0.76	0	0	0	4.11
WNW	0.91	0.3	0	0	0	1.21
NW	0.76	0.91	0	0	0	1.67
NNW	2.74	1.22	0	0	0	3.96
Summary	60.2	39.78	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-THC55[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (ppm)
60 0-2
40 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 - July 2022

Summary of Hourly Averages

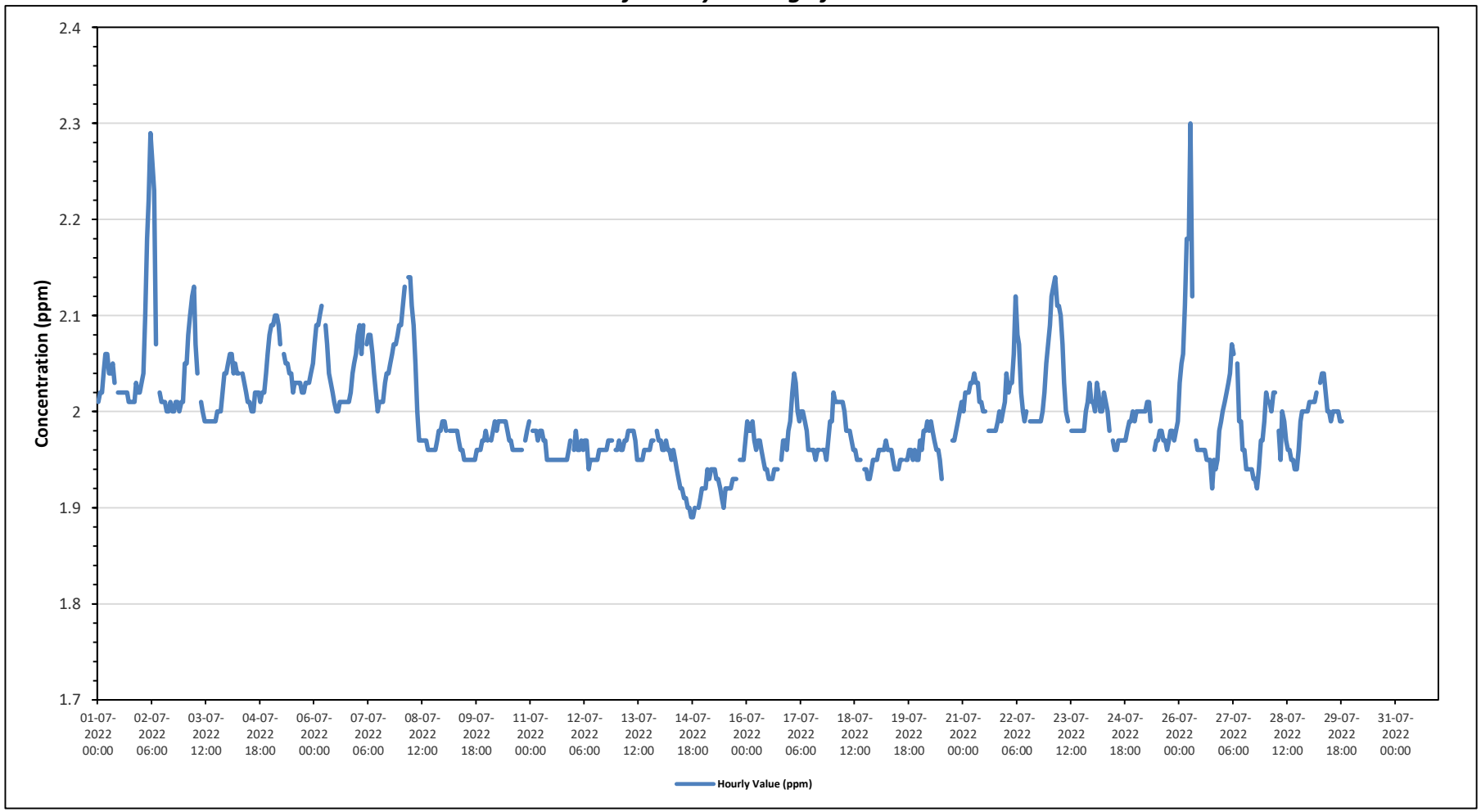
METHANE (CH4) in ppm

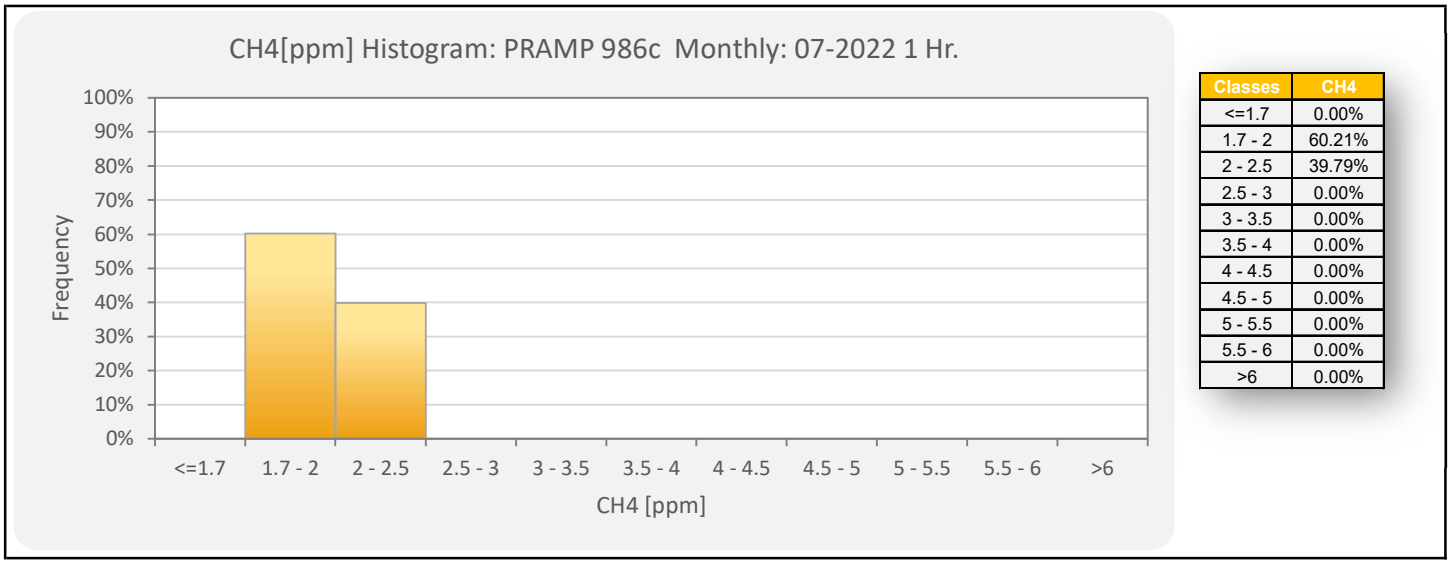
Maximum Hourly Value:	2.30	ppm	on July 26 at hour 6	Hours in Service:	744
Maximum Daily Value:	2.07	ppm	on July 2	Hours of Data:	656
Minimum Hourly Value:	1.89	ppm	on July 14 at hour 17	Hours of Missing Data:	54
Minimum Daily Value:	1.93	ppm	on July 14	Hours of Calibration:	34
Monthly Average:	2.00	ppm		Operational Uptime:	92.7

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
Jul 1	2.01	2.02	2.02	2.04	2.06	2.06	2.04	2.04	2.05	2.03	S	2.02	2.02	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.03	2.02	2.02	2.01	2.06	2.03
Jul 2	2.03	2.04	2.10	2.18	2.22	2.29	2.26	2.23	2.07	S	2.02	2.01	2.01	2.01	2.00	2.00	2.01	2.00	2.00	2.01	2.01	2.00	2.01	2.01	2.00	2.29	**2.07**
Jul 3	2.05	2.05	2.08	2.10	2.12	2.13	2.07	2.04	S	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	2.02	2.04	2.04	1.99	2.13	2.03
Jul 4	2.05	2.06	2.06	2.04	2.05	2.04	2.04	S	2.04	2.03	2.02	2.01	2.01	2.00	2.00	2.02	2.02	2.02	2.01	2.02	2.02	2.04	2.06	2.08	2.00	2.08	2.03
Jul 5	2.09	2.09	2.10	2.10	2.09	2.07	S	2.06	2.05	2.05	2.04	2.04	2.02	2.03	2.03	2.03	2.03	2.02	2.02	2.03	2.03	2.03	2.04	2.05	2.02	2.10	2.05
Jul 6	2.07	2.09	2.09	2.10	2.11	S	2.09	2.07	2.04	2.03	2.02	2.01	2.00	2.00	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.04	2.05	2.06	2.00	2.11	2.04
Jul 7	2.08	2.09	2.06	2.09	S	2.07	2.08	2.08	2.06	2.04	2.02	2.00	2.01	2.01	2.01	2.03	2.04	2.04	2.05	2.06	2.07	2.07	2.08	2.09	2.00	2.09	2.05
Jul 8	2.09	2.11	2.13	S	2.14	2.14	2.11	2.09	2.05	2.00	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.97	1.98	1.98	1.99	1.96	2.14	2.02
Jul 9	1.99	1.98	S	1.98	1.98	1.98	1.98	1.98	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.97	1.97	1.98	1.95	1.99	1.97
Jul 10	1.97	S	1.97	1.98	1.99	1.98	1.99	1.99	1.99	1.99	1.99	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	NRM	1.97	1.98	1.99	1.96	1.99	1.98
Jul 11	S	1.98	1.98	1.98	1.97	1.98	1.98	1.97	1.97	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	1.97	S	1.95	1.98	1.96
Jul 12	1.96	1.98	1.96	1.96	1.97	1.96	1.97	1.97	1.94	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	S	1.96	1.94	1.98	1.96
Jul 13	1.96	1.97	1.96	1.96	1.97	1.97	1.98	1.98	1.98	1.98	1.97	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.97	1.97	S	1.98	1.97	1.95	1.98	1.97
Jul 14	1.97	1.96	1.96	1.97	1.96	1.96	1.95	1.96	1.95	1.94	1.93	1.92	1.92	1.91	1.91	1.90	1.90	1.89	1.89	1.90	S	1.90	1.91	1.92	**1.89**	1.97	1.93
Jul 15	1.92	1.92	1.94	1.93	1.94	1.94	1.94	1.93	1.93	1.92	1.91	1.90	1.92	1.92	1.92	1.92	1.93	1.93	1.93	S	1.95	1.95	1.95	1.97	1.90	1.97	1.93
Jul 16	1.99	1.98	1.98	1.99	1.97	1.96	1.97	1.97	1.96	1.95	1.94	1.94	1.93	1.93	1.93	1.94	1.94	1.94	S	1.95	1.97	1.97	1.96	1.98	1.93	1.99	1.96
Jul 17	1.99	2.02	2.04	2.03	2.00	1.99	2.00	2.00	1.99	1.98	1.96	1.96	1.96	1.96	1.95	1.96	1.96	S	1.96	1.96	1.95	1.97	1.99	1.99	1.95	2.04	1.98
Jul 18	2.02	2.01	2.01	2.01	2.01	2.01	2.00	1.98	1.98	1.98	1.97	1.96	1.96	1.95	1.95	1.95	S	1.94	1.94	1.93	1.93	1.94	1.95	1.95	1.93	2.02	1.97
Jul 19	1.95	1.96	1.96	1.96	1.96	1.97	1.96	1.96	1.96	1.95	1.94	1.94	1.94	1.95	1.95	S	1.95	1.95	1.96	1.96	1.95	1.96	1.95	1.95	1.94	1.97	1.95
Jul 20	1.97	1.96	1.98	1.98	1.99	1.98	1.99	1.98	1.97	1.96	1.96	1.95	1.93	C	C	C	C	C	1.97	1.97	1.98	1.99	2.00	2.01	1.93	2.01	1.97
Jul 21	2.00	2.02	2.02	2.02	2.03	2.03	2.04	2.03	2.03	2.01	2.01	2.00	2.00	S	1.98	1.98	1.98	1.98	1.98	1.99	2.00	1.99	2.00	2.01	1.98	2.04	2.01
Jul 22	2.04	2.02	2.03	2.03	2.06	2.12	2.08	2.07	2.02	2.00	1.99	2.00	S	1.99	1.99	1.99	1.99	1.99	1.99	1.99	2.00	2.02	2.05	2.07	1.99	2.12	2.02
Jul 23	2.09	2.12	2.13	2.14	2.11	2.11	2.10	2.07	2.03	2.00	1.99	S	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	2.00	2.01	2.03	2.01	1.98	2.14	2.03
Jul 24	2.01	2.00	2.03	2.02	2.00	2.00	2.02	2.01	2.00	1.98	S	1.97	1.96	1.96	1.97	1.97	1.97	1.97	1.97	1.98	1.99	1.99	2.00	1.99	1.96	2.03	1.99
Jul 25	2.00	2.00	2.00	2.00	2.00	2.00	2.01	2.01	1.99	S	1.96	1.97	1.97	1.98	1.98	1.97	1.97	1.96	1.97	1.98	1.98	1.97	1.98	1.99	1.96	2.01	1.98
Jul 26	2.03	2.05	2.06	2.11	2.18	2.18	**2.30**	2.12	S	1.97	1.96	1.96	1.96	1.96	1.96	1.95	1.95	1.95	1.92	1.95	1.94	1.95	1.98	1.99	1.92	**2.30**	2.02
Jul 27	2.00	2.01	2.02	2.03	2.04	2.07	2.06	S	2.05	1.99	1.99	1.96	1.96	1.94	1.94	1.94	1.94	1.93	1.93	1.92	1.94	1.97	1.97	1.99	1.92	2.07	1.98
Jul 28	2.02	2.01	2.01	2.00	2.02	2.02	S	1.98	1.95	2.00	1.99	1.97	1.96	1.96	1.95	1.95	1.94	1.94	1.96	1.99	2.00	2.00	2.00	2.00	1.94	2.02	1.98
Jul 29	2.01	2.01	2.01	2.01	2.02	S	2.03	2.04	2.04	2.02	2.00	2.00	1.99	2.00	2.00	2.00	2.00	1.99	1.99	P	P	P	P	P	1.99	2.04	2.01
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Diurnal Maximum	2.09	2.12	2.13	2.18	2.22	2.29	2.30	2.23	2.07	2.05	2.04	2.04	2.02	2.03	2.03	2.03	2.04	2.04	2.05	2.06	2.07	2.07	2.08	2.09			
Diurnal Average	2.01	2.02	2.02	2.03	2.03	2.04	2.04	2.02	2.00	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.99	2.00	2.00			

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

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


Timeseries Chart of Hourly Average for CH4 - 986c Station
Concentration (ppm)
2.4
2.3
2.2
2.1
2
1.9
1.8
1.7
01-07-2022 00:00
02-07-2022 06:00
03-07-2022 12:00
04-07-2022 18:00
06-07-2022 00:00
07-07-2022 06:00
08-07-2022 12:00
09-07-2022 18:00
11-07-2022 00:00
12-07-2022 06:00
13-07-2022 12:00
14-07-2022 18:00
16-07-2022 00:00
17-07-2022 06:00
18-07-2022 12:00
19-07-2022 18:00
21-07-2022 00:00
22-07-2022 06:00
23-07-2022 12:00
24-07-2022 18:00
26-07-2022 00:00
27-07-2022 06:00
28-07-2022 12:00
29-07-2022 18:00
31-07-2022 00:00
Hourly Value (ppm)

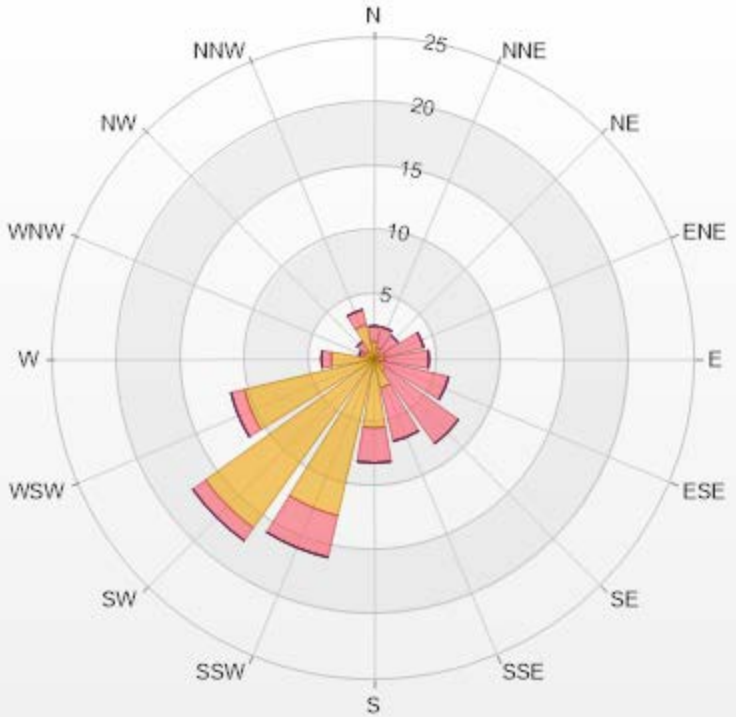


Classes	CH4
<=1.7	0.00%
1.7 - 2	60.21%
2 - 2.5	39.79%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-CH4[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.17% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	1.37	1.22	0	0	0	2.59
NNE	0.91	1.68	0	0	0	2.59
NE	0.3	1.98	0	0	0	2.28
ENE	0.91	3.05	0	0	0	3.96
E	0.76	3.51	0	0	0	4.27
ESE	0.46	5.49	0	0	0	5.95
SE	1.07	7.01	0	0	0	8.08
SSE	2.29	4.27	0	0	0	6.56
S	5.34	2.74	0	0	0	8.08
SSW	12.5	3.35	0	0	0	15.85
SW	16.16	1.22	0	0	0	17.38
WSW	10.37	1.07	0	0	0	11.44
W	3.35	0.76	0	0	0	4.11
WNW	0.91	0.3	0	0	0	1.21
NW	0.76	0.91	0	0	0	1.67
NNW	2.74	1.22	0	0	0	3.96
Summary	60.2	39.78	0	0	0	100

PRAMP 986c Poll.: PRAMP 986c-CH4[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%



% Icon Classes (ppm)	60 0-2	40 2-5	0 5-10	0 10-20	0 >20.0

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PEACE RIVER AREA MONITORING PROGRAM

986c Station - July 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

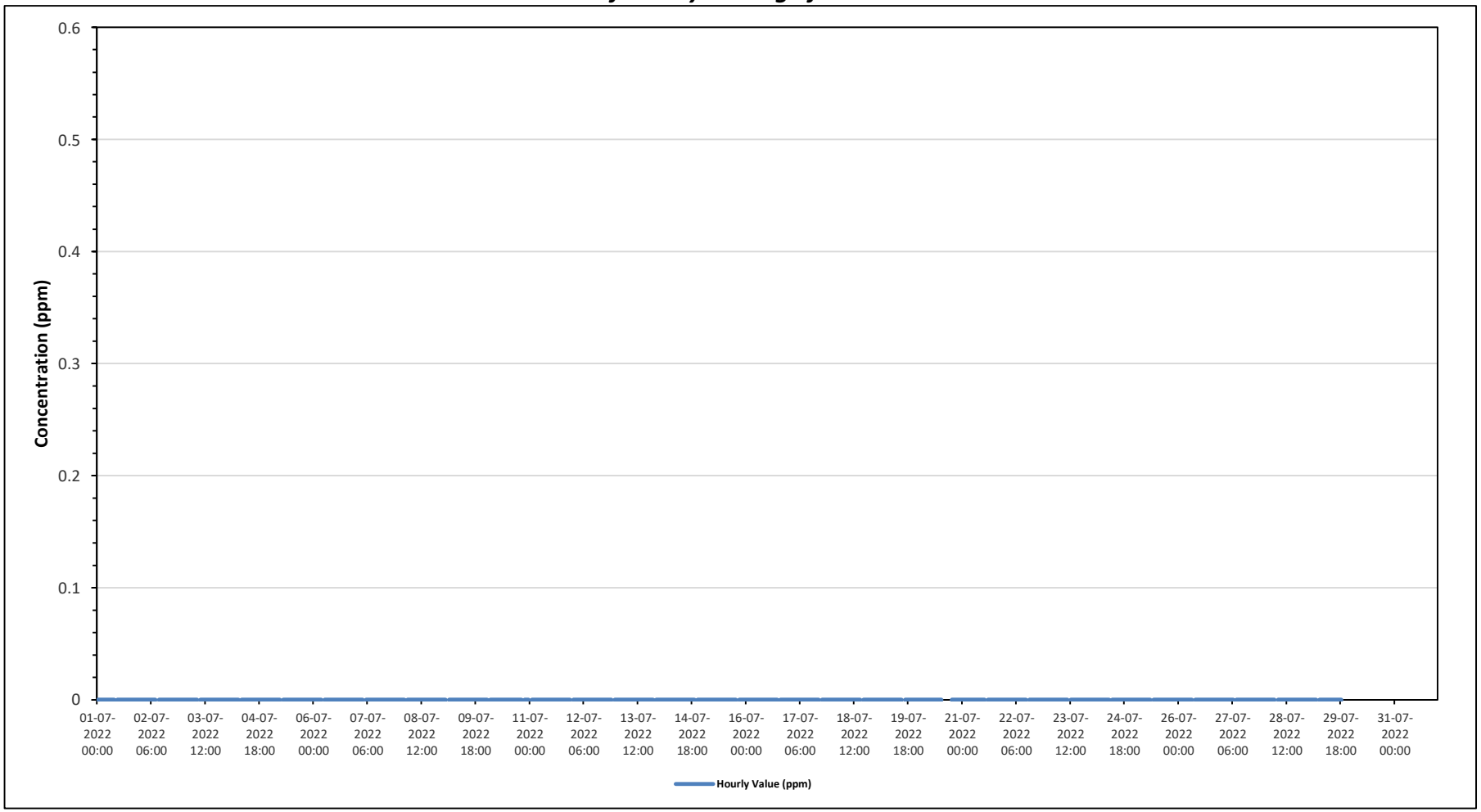
Maximum Hourly Value:	0.00	ppm	on July 1 at hour 0	Hours in Service:	744
Maximum Daily Value:	0.00	ppm	on July 1	Hours of Data:	656
Minimum Hourly Value:	0.00	ppm	on July 1 at hour 0	Hours of Missing Data:	54
Minimum Daily Value:	0.00	ppm	on July 1	Hours of Calibration:	34
Monthly Average:	0.00	ppm		Operational Uptime:	92.7

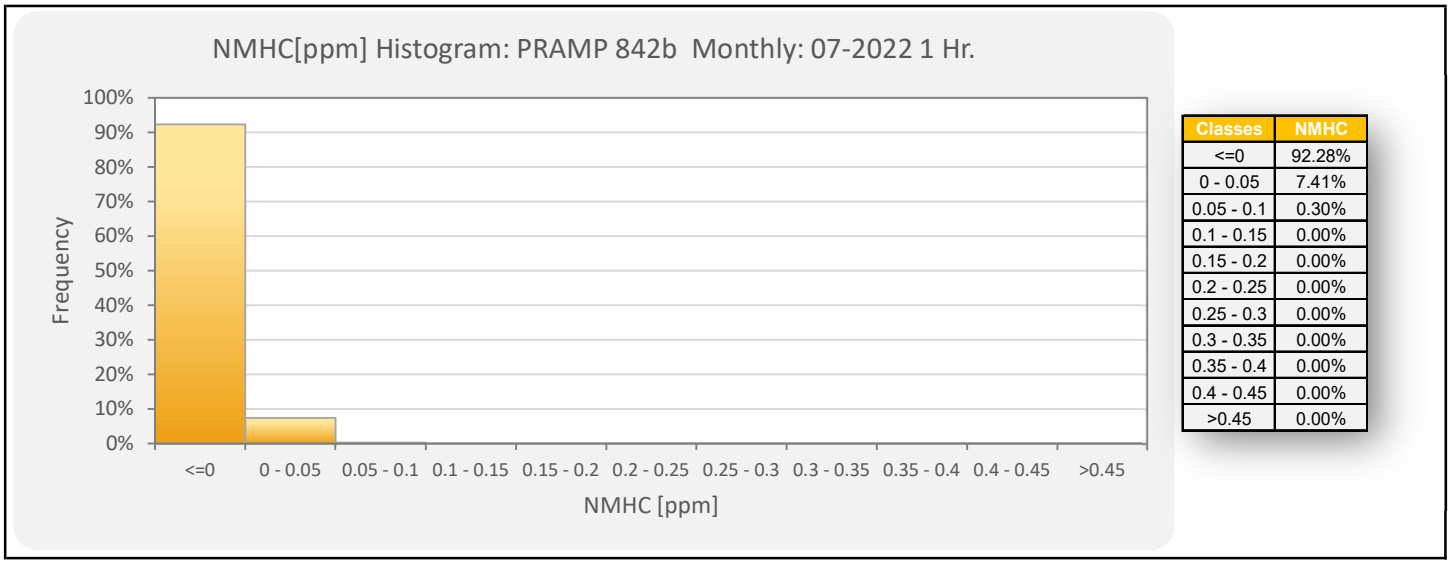
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul 2	0.00	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
Jul 3	0.00	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
Jul 4	0.00	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
Jul 5	0.00	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
Jul 6	0.00	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
Jul 7	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
Jul 8	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
Jul 9	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
Jul 10	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	NRM	0.00	0.00	0.00	0.00	0.00	0.00
Jul 11	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00
Jul 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	0.00	S	0.00	0.00	0.00	0.00
Jul 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	0.00	S	0.00	0.00	0.00	0.00	0.00
Jul 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	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00
Jul 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	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul 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	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul 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	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul 19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul 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	C	C	C	C	C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Jul 22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Jul 23	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
Jul 24	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
Jul 25	0.00	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
Jul 26	0.00	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
Jul 27	0.00	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
Jul 28	0.00	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
Jul 29	0.00	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	P	P	P	P	P	0.00	0.00	0.00
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
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

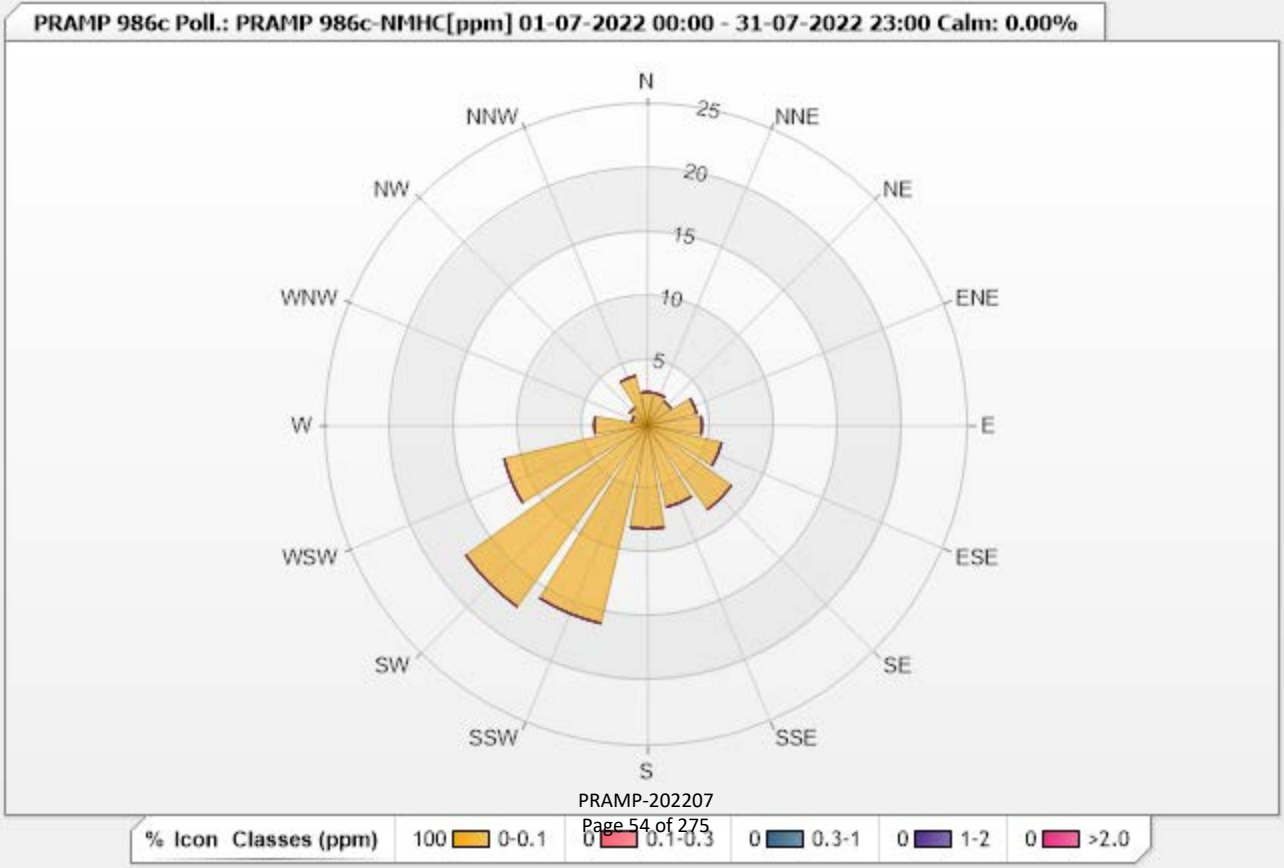




Classes	NMHC
<=0	92.28%
0 - 0.05	7.41%
0.05 - 0.1	0.30%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP 986c Poll.: PRAMP 986c-NMHC[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.17% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	2.59	0	0	0	0	2.59
NNE	2.59	0	0	0	0	2.59
NE	2.29	0	0	0	0	2.29
ENE	3.96	0	0	0	0	3.96
E	4.27	0	0	0	0	4.27
ESE	5.95	0	0	0	0	5.95
SE	8.08	0	0	0	0	8.08
SSE	6.55	0	0	0	0	6.55
S	8.08	0	0	0	0	8.08
SSW	15.85	0	0	0	0	15.85
SW	17.38	0	0	0	0	17.38
WSW	11.43	0	0	0	0	11.43
W	4.12	0	0	0	0	4.12
WNW	1.22	0	0	0	0	1.22
NW	1.68	0	0	0	0	1.68
NNW	3.96	0	0	0	0	3.96
Summary	100	0	0	0	0	100


PRAMP 986c Poll.: PRAMP 986c-NMHC[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
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 - July 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

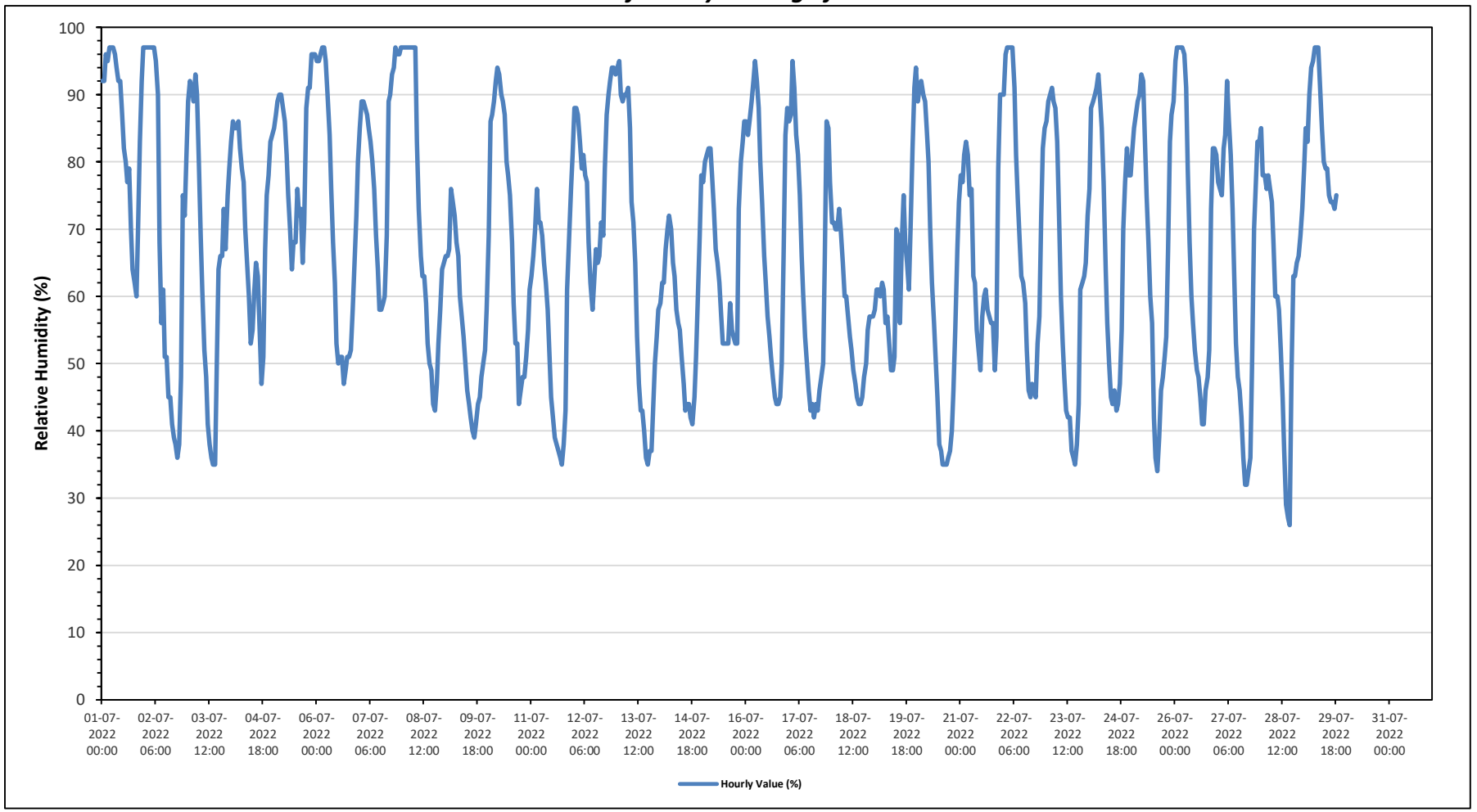
Maximum Hourly Value:	97	%	on July 1 at hour 4	Hours in Service:	744
Maximum Daily Value:	85.2	%	on July 1	Hours of Data:	691
Minimum Hourly Value:	26	%	on July 28 at hour 16	Hours of Missing Data:	53
Minimum Daily Value:	55.2	%	on July 9	Hours of Calibration:	0
Monthly Average:	67.8	%		Operational Uptime:	92.9

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	92	92	96	95	**97**	**97**	**97**	96	94	92	92	88	82	80	77	79	70	64	62	60	70	83	92	**97**	60	**97**	**85.2**
Jul 2	**97**	**97**	**97**	**97**	**97**	**97**	95	90	68	56	61	51	51	45	45	41	39	38	36	38	48	75	72	80	36	**97**	67.1
Jul 3	89	92	91	89	93	90	80	69	61	52	48	41	38	36	35	35	51	64	66	66	73	67	75	79	35	93	65.8
Jul 4	83	86	85	85	86	82	79	77	70	65	60	53	55	61	65	63	55	47	51	67	75	78	83	84	47	86	70.6
Jul 5	85	87	89	90	90	88	86	81	75	70	64	68	68	76	72	73	65	71	88	91	91	96	96	96	64	96	81.5
Jul 6	95	95	96	**97**	**97**	95	90	84	76	68	62	53	50	51	51	47	49	51	51	52	58	65	72	80	47	**97**	70.2
Jul 7	85	89	89	88	87	85	83	80	76	69	64	58	58	59	60	69	89	90	93	94	**97**	96	96	**97**	58	**97**	81.3
Jul 8	**97**	**97**	**97**	**97**	**97**	**97**	**97**	**97**	83	73	66	63	63	59	53	50	49	44	43	47	53	58	64	65	43	**97**	71.2
Jul 9	66	66	67	76	74	72	68	66	60	57	54	50	46	44	42	40	39	41	44	45	48	50	52	58	39	76	55.2
Jul 10	69	86	87	89	92	94	93	90	89	87	80	78	75	68	59	53	53	44	46	48	48	51	55	61	44	94	70.6
Jul 11	63	66	70	76	71	71	69	65	62	58	51	45	42	39	38	37	36	35	38	43	61	69	76	81	35	81	56.8
Jul 12	88	88	87	83	79	81	78	77	68	62	58	62	67	65	66	71	69	79	87	90	92	94	94	93	58	94	78.3
Jul 13	94	95	90	89	90	90	91	85	74	71	65	54	47	43	43	40	36	35	37	37	43	50	54	58	35	95	63.0
Jul 14	59	62	62	67	70	72	70	65	63	58	56	55	51	47	43	44	44	42	41	45	51	60	69	78	41	78	57.3
Jul 15	77	80	81	82	82	78	73	67	65	62	57	53	53	53	53	59	55	54	53	53	73	80	83	86	53	86	67.2
Jul 16	86	84	86	89	92	95	92	88	80	74	66	62	57	54	51	48	45	44	44	45	50	66	84	88	44	95	69.6
Jul 17	86	87	95	91	84	81	75	66	60	54	50	46	43	44	42	44	43	46	48	50	65	86	85	77	42	95	64.5
Jul 18	71	71	70	70	73	70	65	60	60	57	54	52	49	47	45	44	44	45	48	50	55	57	57	57	44	73	57.1
Jul 19	58	61	61	60	62	61	56	57	53	49	49	51	70	69	56	68	75	68	65	61	71	82	91	94	49	94	64.5
Jul 20	89	91	92	90	89	85	80	69	62	56	50	45	38	37	35	35	35	36	37	40	46	55	67	74	35	92	59.7
Jul 21	78	77	81	83	81	75	76	63	62	55	52	49	57	60	61	58	57	56	56	49	54	79	90	90	49	90	66.6
Jul 22	90	96	**97**	**97**	**97**	**97**	91	81	74	68	63	62	59	52	46	45	47	46	45	53	57	72	82	85	45	**97**	70.9
Jul 23	86	89	90	91	89	88	83	72	60	53	48	43	42	42	37	36	35	38	44	61	62	63	65	72	35	91	62.0
Jul 24	76	88	89	90	91	93	89	85	77	64	56	50	45	44	46	43	44	47	55	70	77	82	78	78	43	93	69.0
Jul 25	82	85	87	89	90	93	92	84	75	68	60	56	42	36	34	39	46	48	51	54	67	83	87	89	34	93	68.2
Jul 26	95	**97**	**97**	**97**	**97**	96	91	79	68	60	56	52	49	48	45	41	41	46	48	52	73	82	82	81	41	**97**	69.7
Jul 27	77	76	75	82	84	92	86	81	73	62	53	48	46	42	36	32	32	34	36	49	70	77	83	83	32	92	62.9
Jul 28	85	78	78	76	78	76	74	68	60	60	58	52	45	37	29	27	**26**	49	63	63	65	66	69	73	**26**	85	60.6
Jul 29	79	85	83	90	94	95	**97**	**97**	**97**	91	85	80	79	79	75	74	74	73	75	**P**	**P**	**P**	**P**	**P**	73	**97**	84.3
Jul 30	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Jul 31	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Diurnal Maximum	97	97	97	97	97	97	97	97	97	92	92	88	82	80	77	79	89	90	93	94	97	96	96	97			
Diurnal Average	82.0	84.2	85.0	86.0	86.3	85.7	82.6	77.2	70.5	64.5	59.9	55.9	54.0	52.3	49.7	49.5	49.8	50.9	53.5	56.2	64.0	72.2	76.9	79.8			

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

986c Station - July 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

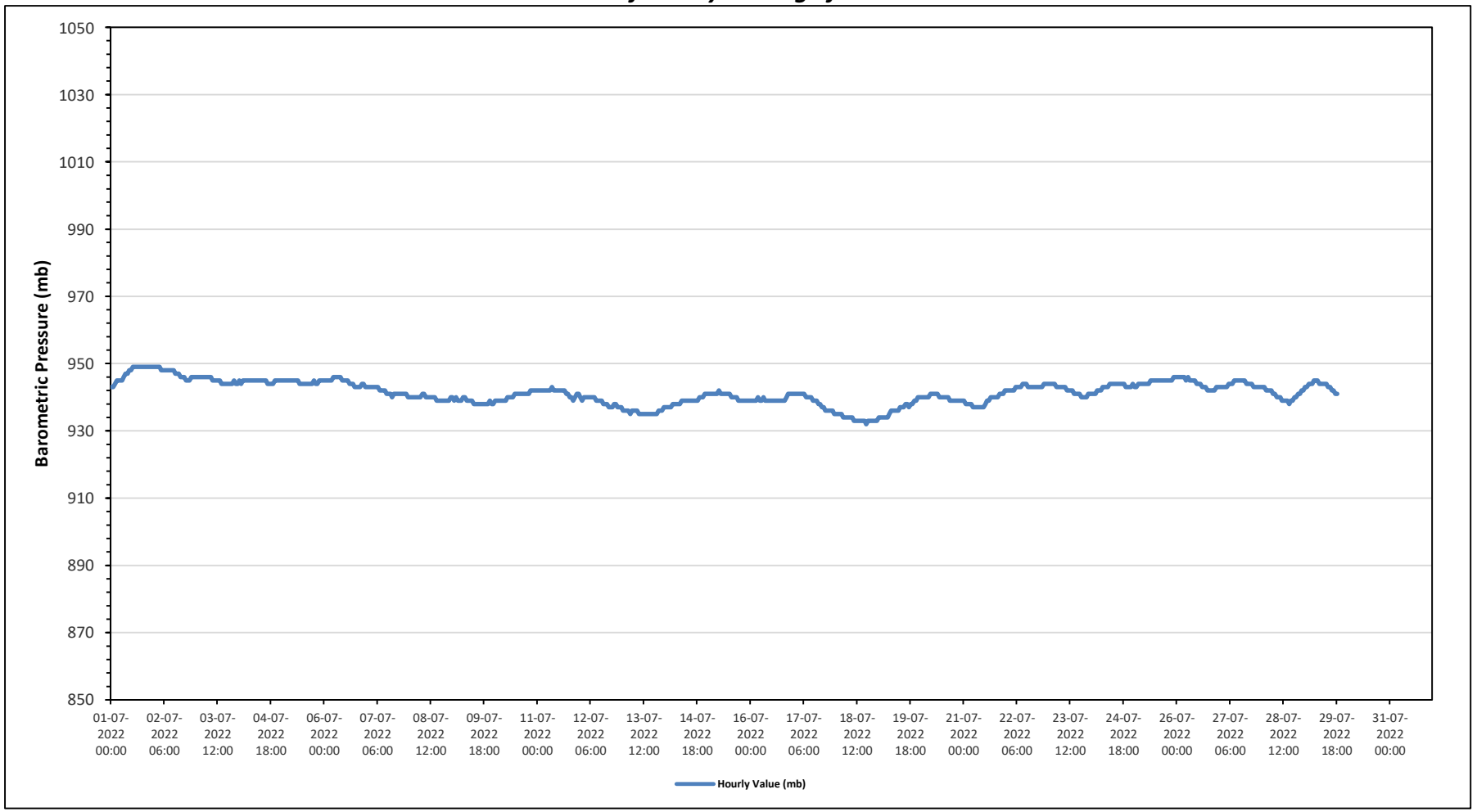
Maximum Hourly Value:	949	mb	on July 1 at hour 12	Hours in Service:	744
Maximum Daily Value:	947	mb	on July 1	Hours of Data:	691
Minimum Hourly Value:	932	mb	on July 18 at hour 17	Hours of Missing Data:	53
Minimum Daily Value:	934	mb	on July 18	Hours of Calibration:	0
Monthly Average:	941	mb		Operational Uptime:	92.9

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	943	943	944	945	945	945	945	946	947	947	948	948	**949**	**949**	**949**	**949**	**949**	**949**	**949**	**949**	**949**	**949**	**949**	**949**	943	**949**	**947.3**
Jul 2	**949**	**949**	**949**	**949**	948	948	948	948	948	948	948	948	947	947	947	946	946	946	945	945	945	946	946	946	945	**949**	947.2
Jul 3	946	946	946	946	946	946	946	946	946	945	945	945	945	945	944	944	944	944	944	944	945	945	944	944	944	946	945.0
Jul 4	945	944	945	945	945	945	945	945	945	945	945	945	945	945	945	945	944	944	944	944	945	945	945	945	944	945	944.8
Jul 5	945	945	945	945	945	945	945	945	945	945	944	944	944	944	944	944	944	944	945	944	944	945	945	945	944	945	944.6
Jul 6	945	945	945	945	945	946	946	946	946	946	945	945	945	945	944	944	944	943	943	943	943	944	944	943	943	946	944.6
Jul 7	943	943	943	943	943	943	943	942	942	942	942	941	941	941	940	941	941	941	941	941	941	941	941	940	940	943	941.7
Jul 8	940	940	940	940	940	940	940	941	941	940	940	940	940	940	940	939	939	939	939	939	939	939	939	940	939	941	939.8
Jul 9	940	939	940	939	939	939	940	940	939	939	939	939	938	938	938	938	938	938	938	938	938	939	938	938	938	940	938.7
Jul 10	939	939	939	939	939	939	939	940	940	940	940	941	941	941	941	941	941	941	941	941	942	942	942	942	939	942	940.4
Jul 11	942	942	942	942	942	942	942	942	943	942	942	942	942	942	942	942	941	941	940	940	939	940	941	941	939	943	941.5
Jul 12	940	939	940	940	940	940	940	940	940	939	939	939	939	938	938	938	937	937	937	938	938	937	937	937	937	940	938.6
Jul 13	936	936	936	936	935	936	936	936	936	935	935	935	935	935	935	935	935	935	935	935	936	936	936	937	935	937	935.5
Jul 14	937	937	937	937	938	938	938	938	938	939	939	939	939	939	939	939	939	939	939	940	940	940	941	941	937	941	938.8
Jul 15	941	941	941	941	941	941	942	941	941	941	941	941	941	940	940	940	940	939	939	939	939	939	939	939	939	942	940.3
Jul 16	939	939	939	939	940	939	939	940	939	939	939	939	939	939	939	939	939	939	939	939	940	941	941	941	939	941	939.4
Jul 17	941	941	941	941	941	941	941	940	940	940	940	939	939	939	938	938	937	937	936	936	936	936	936	935	935	941	938.7
Jul 18	935	935	935	935	934	934	934	934	934	934	933	933	933	933	933	933	933	**932**	933	933	933	933	933	933	**932**	935	933.5
Jul 19	934	934	934	934	934	934	935	936	936	936	936	936	937	937	937	938	938	937	938	938	939	939	940	940	934	940	936.5
Jul 20	940	940	940	940	940	941	941	941	941	941	940	940	940	940	940	940	939	939	939	939	939	939	939	939	939	941	939.9
Jul 21	939	938	938	938	938	937	937	937	937	937	937	937	938	939	939	940	940	940	940	940	941	941	941	942	937	942	938.8
Jul 22	942	942	942	942	942	943	943	943	943	944	944	944	943	943	943	943	943	943	943	943	943	944	944	944	942	944	943.0
Jul 23	944	944	944	944	943	943	943	943	943	943	942	942	942	942	941	941	941	941	940	940	940	940	941	941	940	944	942.0
Jul 24	941	941	941	942	942	942	943	943	943	943	944	944	944	944	944	944	944	944	944	943	943	943	943	944	941	944	943.0
Jul 25	943	943	944	944	944	944	944	944	944	945	945	945	945	945	945	945	945	945	945	945	945	945	946	946	943	946	944.6
Jul 26	946	946	946	946	946	945	946	945	945	945	945	944	944	944	943	943	943	942	942	942	942	942	943	943	942	946	944.1
Jul 27	943	943	943	943	943	944	944	944	945	945	945	945	945	945	945	944	944	944	944	943	943	943	943	943	943	945	943.9
Jul 28	943	943	942	942	942	942	941	941	940	940	940	939	939	939	939	938	939	939	940	940	941	941	942	942	938	943	940.6
Jul 29	943	943	944	944	944	945	945	945	944	944	944	944	944	943	943	942	942	941	941	**P**	**P**	**P**	**P**	**P**	941	945	943.4
Jul 30	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Jul 31	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Diurnal Maximum	949	949	949	949	948	948	948	948	948	948	948	948	949	949	949	949	949	949	949	949	949	949	949	949			
Diurnal Average	942	941	942	942	942	942	942	942	942	942	942	941	941	941	941	941	941	941	941	941	941	941	941	941			

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



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PEACE RIVER AREA MONITORING PROGRAM

986c Station - July 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

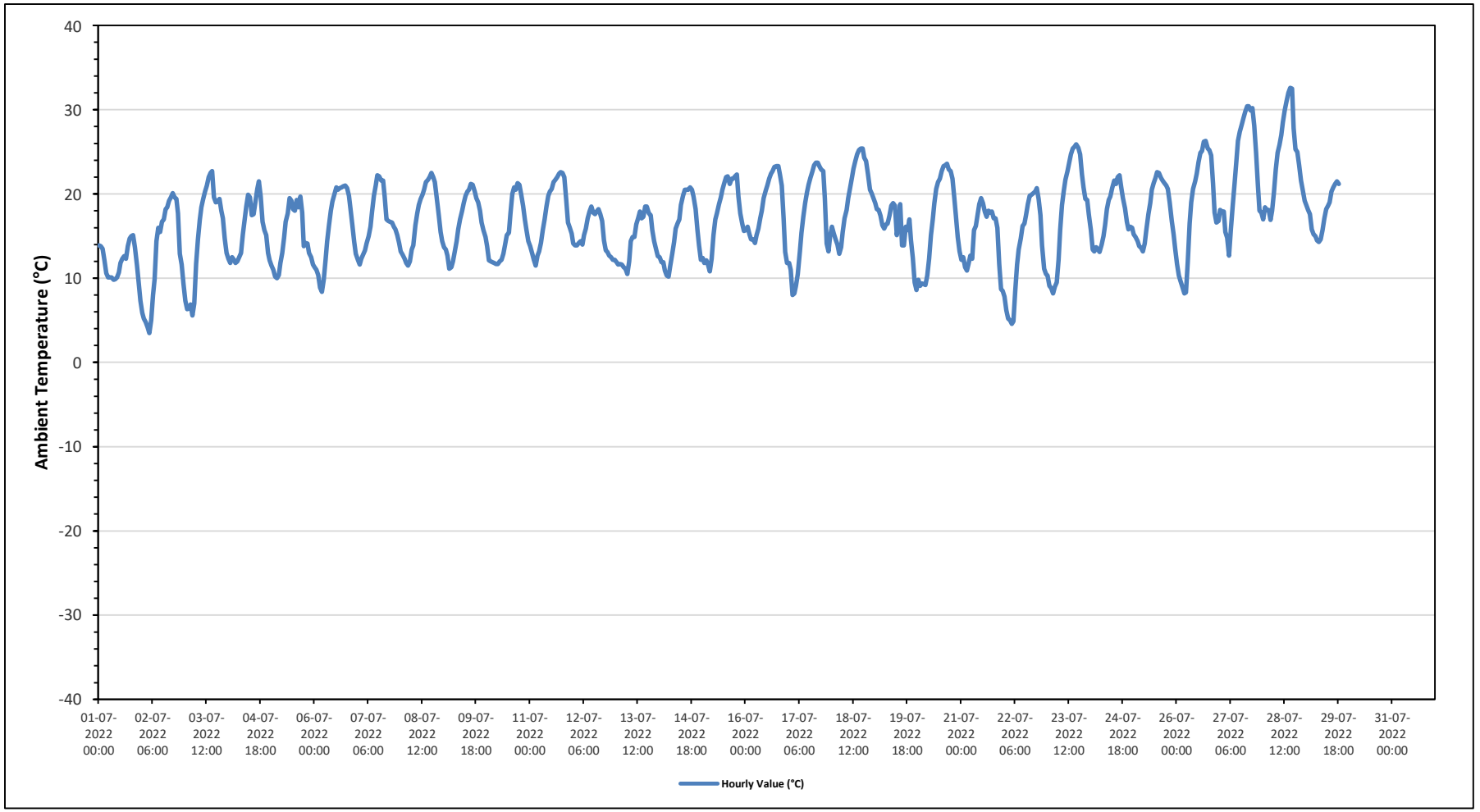
Maximum Hourly Value:	32.6	°C	on July 28 at hour 15	Hours in Service:	744
Maximum Daily Value:	24.0	°C	on July 28	Hours of Data:	691
Minimum Hourly Value:	3.5	°C	on July 2 at hour 4	Hours of Missing Data:	53
Minimum Daily Value:	11.9	°C	on July 1	Hours of Calibration:	0
Monthly Average:	16.8	°C		Operational Uptime:	92.9

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	13.9	13.8	13.5	12.1	10.6	10.1	10.1	10.1	9.8	9.9	10.1	10.7	11.8	12.3	12.6	12.3	13.8	14.7	15	15.1	13.7	11.5	9.6	7.3	7.3	15.1	11.9
Jul 2	5.9	5.2	4.8	4.2	**3.5**	5	8	9.9	14.4	16	15.5	16.7	17	18.2	18.4	19.2	19.6	20.1	19.6	19.4	17.7	12.9	11.6	9.3	**3.5**	20.1	13.0
Jul 3	7.3	6.3	6.4	6.9	5.6	7	11.7	14.6	16.9	18.4	19.4	20.3	21	22	22.5	22.7	19.6	19	19.1	19.4	18	17.1	14.7	13	5.6	22.7	15.4
Jul 4	12.3	11.8	12.5	12.2	11.8	12	12.5	13	15.2	17	18.5	19.9	19.6	17.5	17.6	19.1	20.6	21.5	19.7	16.7	15.7	15.1	13	12.1	11.8	21.5	15.7
Jul 5	11.5	11	10.2	10	10.4	11.8	13	14.8	16.7	17.7	19.5	19.2	18.2	18	19.3	18.4	19.7	17.8	13.8	14.2	14.1	13	12.5	11.6	10.0	19.7	14.9
Jul 6	11.3	11	10.4	8.9	8.4	9.8	12.2	14.4	16.3	18	19.1	20	20.8	20.5	20.7	20.8	20.9	21	20.7	19.8	18.2	16.3	14.3	12.9	8.4	21.0	16.1
Jul 7	12.2	11.6	12.3	12.8	13.3	14.1	15	16.1	17.9	19.8	21	22.2	22.1	21.6	21.6	19.7	17	16.8	16.7	16.6	16.1	15.8	15.1	14.2	11.6	22.2	16.7
Jul 8	13.2	12.8	12.3	11.8	11.5	12	13.4	13.9	16.3	17.7	18.7	19.4	19.9	20.5	21.4	21.7	22	22.5	22	21.4	19.6	17.5	15.5	14.4	11.5	22.5	17.1
Jul 9	13.7	13.4	12.7	11.1	11.3	12	13.2	14.4	15.8	17	18	18.9	19.8	20.3	20.5	21.2	21.1	20.3	19.5	19	18	16.6	15.7	14.9	11.1	21.2	16.6
Jul 10	13.8	12.1	12	11.9	11.8	11.7	11.7	12	12.2	12.9	13.9	15.1	15.4	17.7	20	20.8	20.5	21.3	21.1	19.9	18.6	16.9	15.7	14.4	11.7	21.3	15.6
Jul 11	13.8	12.9	12.2	11.5	12.7	13.2	14.2	15.7	17	18.5	19.8	20.3	20.6	21.4	21.7	22	22.4	22.6	22.5	22	19.4	16.6	16	15.3	11.5	22.6	17.7
Jul 12	14.1	13.9	13.9	14.2	14.4	14	15.1	15.9	17.1	17.9	18.5	17.8	17.6	17.9	18.2	17.6	16.8	14.5	13.3	13.1	12.7	12.5	12.2	12.2	12.2	18.5	15.2
Jul 13	11.9	11.6	11.7	11.6	11.3	11.1	10.5	12	14.4	14.9	14.9	16.4	17.1	17.9	17.1	17.3	18.5	18.5	17.7	17.5	15.7	14.4	13.5	12.6	10.5	18.5	14.6
Jul 14	12.5	11.9	11.9	10.9	10.3	10.2	11.4	12.9	14.3	15.9	16.5	17	18.7	19.8	20.5	20.5	20.5	20.8	20.5	19.7	18.2	15.7	13.9	12.2	10.2	20.8	15.7
Jul 15	12.4	11.8	12.1	11.5	10.8	12.3	15.1	17	17.7	18.8	19.6	20.5	21.3	22	22.1	21.2	21.8	21.8	22.1	22.3	19.7	17.7	16.4	15.6	10.8	22.3	17.7
Jul 16	15.7	16.1	15.2	14.6	14.6	14.2	15.1	15.9	17.1	18	19.5	20.4	21	21.8	22.4	22.7	23.2	23.3	23.3	22.3	21	17.1	13.1	11.8	11.8	23.3	18.3
Jul 17	11.8	11	8	8.2	9.1	10.5	13.2	15.4	17.3	18.9	20.2	21.1	21.9	22.7	23.4	23.7	23.7	23.3	22.9	22.7	19.5	14.1	13.2	15	8.0	23.7	17.1
Jul 18	16.1	15.3	14.6	14	12.9	13.7	15.5	17.1	18.1	19.5	20.7	21.9	23	23.9	24.7	25.2	25.4	25.4	24.3	23.9	22.4	20.5	20.1	19.5	12.9	25.4	19.9
Jul 19	18.9	18.2	18.1	17.4	16.3	15.9	16.4	16.5	17.4	18.6	18.9	18.6	15.1	16.5	18.8	13.9	13.9	16.1	15.7	17	14.5	12.4	9.5	8.6	8.6	18.9	16.0
Jul 20	9.8	9.1	9.4	9.3	9.2	10.3	12.3	15.1	17	18.9	20.6	21.4	21.8	22.7	23.3	23.4	23.6	22.9	22.7	21.8	19.5	17.4	14.9	13.2	9.1	23.6	17.1
Jul 21	12.2	12.5	11.3	10.9	11.7	12.7	12.3	15.7	16.2	17.6	18.8	19.5	18.9	17.9	17.3	18	17.8	17.9	17.1	17.1	16	11.7	8.7	8.5	8.5	19.5	14.9
Jul 22	7.8	6.2	5.2	5	4.6	4.9	8.5	11.6	13.4	14.7	16.2	16.5	17.5	18.8	19.8	19.9	20.1	20.3	20.7	19.4	17.5	13.9	11.1	10.5	4.6	20.7	13.5
Jul 23	10.3	9.1	8.8	8.2	9	9.5	12.2	15.7	18.7	20.4	21.7	22.7	23.8	24.7	25.4	25.6	25.9	25.5	24.7	22.3	20.8	19.4	19.3	17.6	8.2	25.9	18.4
Jul 24	15.7	13.4	13.2	13.7	13.4	13.1	14	15	16.3	18.2	19.3	19.7	20.7	21.6	21.2	22	22.2	20.7	19.5	18.3	16.7	15.8	16.1	16	13.1	22.2	17.3
Jul 25	15.2	14.9	14.4	13.8	13.6	13.2	14.1	15.7	17.6	18.9	20.5	21.3	21.9	22.6	22.5	21.9	21.6	21.3	21	20.6	19	16.8	15.2	13.5	13.2	22.6	18.0
Jul 26	11.7	10.3	9.7	9	8.2	8.3	12	16.5	19	20.6	21.5	22.4	23.8	24.9	25.1	26.2	26.3	25.4	25.2	24.6	21.3	17.8	16.6	16.8	8.2	26.3	18.5
Jul 27	18.1	17.9	17.9	15.5	14.8	12.7	15.8	18.6	21.2	23.9	26.3	27.4	28.3	29	29.8	30.4	30.4	29.9	30.2	28.1	24.9	21	18	17.8	12.7	30.4	22.8
Jul 28	17	18.4	18.1	18.1	16.9	18	20.2	22.9	24.9	25.8	27	28.5	29.9	31	32	**32.6**	32.5	27.8	25.3	25	23.4	21.6	20.4	19.2	16.9	**32.6**	**24.0**
Jul 29	18.7	18.1	17.6	15.8	15.2	15	14.5	14.3	14.6	15.7	17.1	18.2	18.6	19	20.3	20.8	21.2	21.5	21.2	**P**	**P**	**P**	**P**	**P**	14.3	21.5	17.8
Jul 30	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Jul 31	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Diurnal Maximum	18.9	18.4	18.1	18.1	16.9	18.0	20.2	22.9	24.9	25.8	27.0	28.5	29.9	31.0	32.0	32.6	32.5	29.9	30.2	28.1	24.9	21.6	20.4	19.5			
Diurnal Average	13.1	12.5	12.1	11.6	11.3	11.7	13.2	14.9	16.6	17.9	19.0	19.8	20.2	20.9	21.4	21.4	21.5	21.2	20.6	20.0	18.3	16.0	14.5	13.6			

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 AT - 986c Station



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PEACE RIVER AREA MONITORING PROGRAM

986c Station - July 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

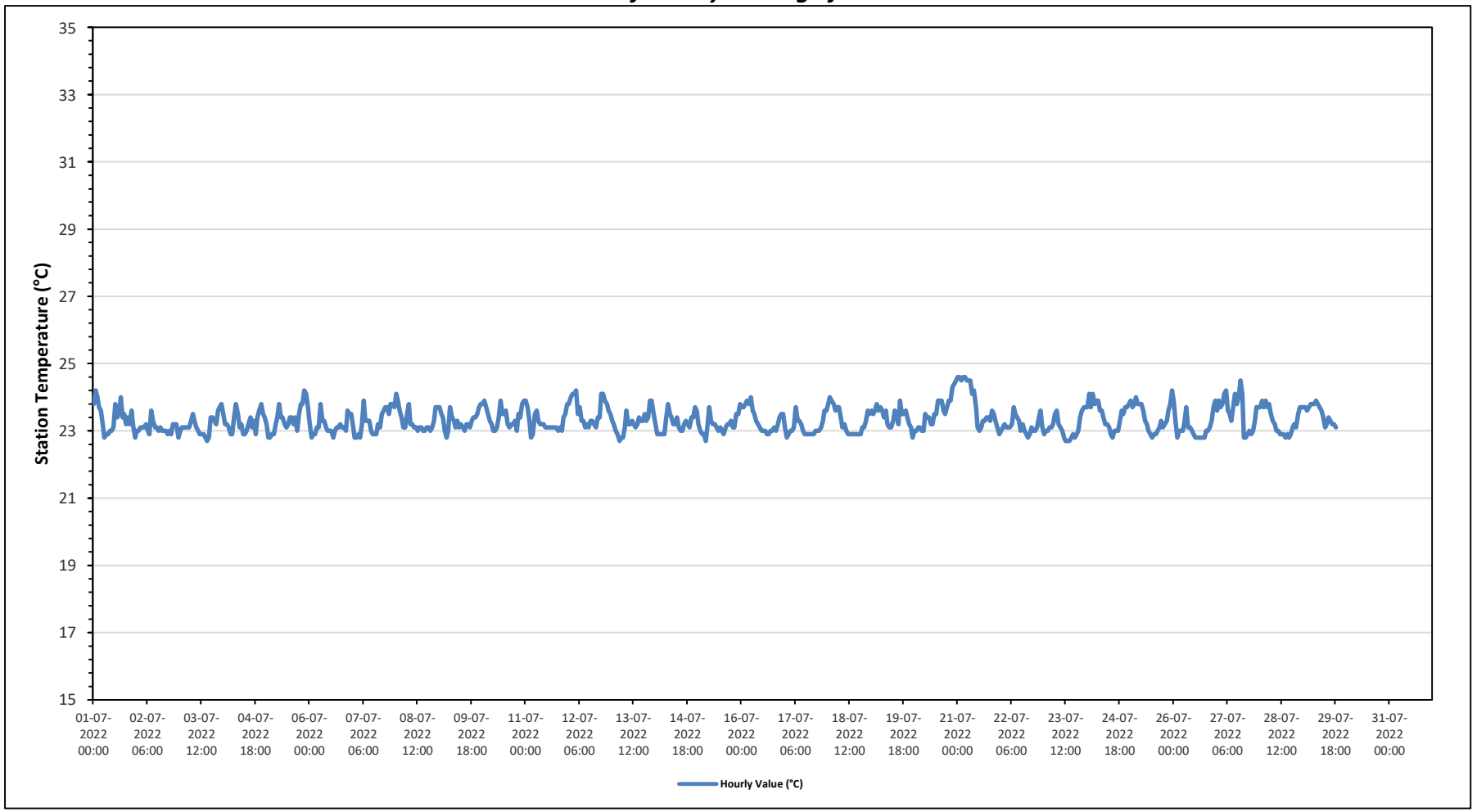
Maximum Hourly Value:	24.6	°C	on July 21 at hour 0	Hours in Service:	744
Maximum Daily Value:	23.8	°C	on July 21	Hours of Data:	691
Minimum Hourly Value:	22.7	°C	on July 3 at hour 15	Hours of Missing Data:	53
Minimum Daily Value:	23.1	°C	on July 2	Hours of Calibration:	0
Monthly Average:	23.3	°C		Operational Uptime:	92.9

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	23.8	24.2	24.0	23.7	23.6	23.2	22.8	22.9	22.9	23.0	23.0	23.1	23.8	23.4	23.5	24.0	23.4	23.5	23.2	23.4	23.2	23.6	23.1	22.8	22.8	24.2	23.4
Jul 2	23.0	23.0	23.1	23.1	23.1	23.2	23.0	22.9	23.6	23.3	23.1	23.1	23.0	23.1	23.0	23.0	23.0	22.9	23.0	22.9	23.2	23.2	23.2	22.8	22.8	23.6	23.1
Jul 3	23.0	23.1	23.1	23.1	23.1	23.1	23.3	23.5	23.3	23.1	23.0	22.9	22.9	22.9	22.8	**22.7**	22.8	23.4	23.4	23.3	23.2	23.6	23.7	23.8	**22.7**	23.8	23.2
Jul 4	23.5	23.2	23.2	23.1	22.9	22.9	23.4	23.8	23.5	23.1	23.2	22.9	22.9	23.0	23.2	23.4	23.1	23.3	22.9	23.4	23.6	23.8	23.5	23.4	22.9	23.8	23.3
Jul 5	23.2	22.8	22.8	22.9	22.9	23.2	23.4	23.8	23.4	23.4	23.2	23.1	23.2	23.4	23.4	23.2	23.4	23.0	23.5	23.8	23.8	24.2	24.1	23.7	22.8	24.2	23.4
Jul 6	23.2	22.8	22.9	22.9	23.1	23.1	23.8	23.3	23.3	23.1	23.0	23.0	23.0	22.8	23.0	23.1	23.1	23.2	23.1	23.1	23.0	23.6	23.5	23.5	22.8	23.8	23.1
Jul 7	23.2	22.8	22.8	22.9	22.8	23.2	23.9	23.3	23.3	23.3	23.0	22.9	22.9	22.9	23.2	23.1	23.5	23.6	23.7	23.7	23.5	23.8	23.8	23.7	22.8	23.9	23.3
Jul 8	24.1	23.9	23.6	23.4	23.1	23.1	23.5	23.8	23.2	23.2	23.1	23.1	23.0	23.1	23.1	23.0	23.0	23.1	23.1	23.0	23.1	23.3	23.7	23.7	23.0	24.1	23.3
Jul 9	23.7	23.5	23.4	23.0	22.8	23.0	23.7	23.4	23.3	23.1	23.3	23.1	23.2	23.1	23.0	23.2	23.2	23.1	23.3	23.4	23.4	23.5	23.7	23.8	22.8	23.8	23.3
Jul 10	23.8	23.9	23.7	23.5	23.3	23.2	23.0	23.0	23.1	23.4	23.9	23.5	23.5	23.6	23.2	23.1	23.2	23.2	23.3	23.0	23.5	23.4	23.8	23.9	23.0	23.9	23.4
Jul 11	23.9	23.7	23.3	22.8	22.9	23.5	23.6	23.3	23.2	23.2	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.0	23.1	23.0	23.4	23.5	23.8	22.8	23.9	23.3
Jul 12	23.8	24.0	24.1	24.1	24.2	23.5	23.7	23.3	23.3	23.1	23.2	23.1	23.3	23.3	23.2	23.1	23.4	23.4	24.1	24.1	23.9	23.8	23.6	23.5	23.1	24.2	23.6
Jul 13	23.3	23.2	23.0	22.9	**22.7**	22.8	22.8	23.1	23.6	23.2	23.2	23.3	23.2	23.1	23.2	23.4	23.3	23.3	23.5	23.3	23.4	23.9	23.9	23.5	**22.7**	23.9	23.3
Jul 14	23.2	22.9	22.9	22.9	22.9	22.9	23.4	23.8	23.5	23.4	23.2	23.2	23.4	23.1	23.0	23.0	23.2	23.3	23.2	23.1	23.4	23.4	23.7	23.6	22.9	23.8	23.2
Jul 15	23.2	23.0	22.9	22.9	**22.7**	23.2	23.7	23.3	23.2	23.2	23.1	23.0	23.1	23.0	22.9	23.1	23.2	23.2	23.3	23.1	23.1	23.5	23.5	23.8	**22.7**	23.8	23.2
Jul 16	23.7	23.7	23.8	23.9	23.8	24.0	23.6	23.5	23.3	23.2	23.1	23.0	23.0	23.0	22.9	22.9	23.0	23.0	23.1	23.0	23.2	23.4	23.5	23.5	22.9	24.0	23.3
Jul 17	23.1	22.8	22.9	23.0	23.0	23.1	23.7	23.3	23.3	23.2	23.0	22.9	22.9	22.9	22.9	22.9	22.9	23.0	23.0	23.0	23.1	23.3	23.6	23.6	22.8	23.7	23.1
Jul 18	23.8	24.0	23.9	23.8	23.6	23.7	23.7	23.4	23.1	23.2	23.0	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9	23.1	23.1	23.3	23.6	23.5	22.9	24.0	23.3
Jul 19	23.6	23.5	23.6	23.8	23.6	23.7	23.6	23.4	23.6	23.2	23.1	23.1	23.3	23.6	23.5	23.2	23.9	23.5	23.5	23.6	23.4	23.2	23.1	22.8	22.8	23.9	23.4
Jul 20	23.0	23.0	23.1	23.1	23.0	23.0	23.5	23.4	23.4	23.2	23.2	23.5	23.5	23.9	23.9	23.9	23.6	23.5	23.7	23.9	23.9	24.3	24.4	24.5	23.0	24.5	23.6
Jul 21	**24.6**	**24.6**	24.5	**24.6**	**24.6**	24.5	24.5	24.5	24.1	24.2	23.7	23.1	23.0	23.1	23.3	23.3	23.4	23.4	23.3	23.6	23.5	23.3	23.1	22.9	22.9	**24.6**	**23.8**
Jul 22	23.0	23.1	23.2	23.1	23.1	23.1	23.2	23.7	23.5	23.4	23.3	23.0	23.2	23.0	22.9	22.8	22.9	23.1	23.0	23.0	23.1	23.4	23.6	23.1	22.8	23.7	23.2
Jul 23	22.9	23.0	23.0	23.1	23.1	23.2	23.5	23.6	23.2	23.1	23.0	22.8	**22.7**	**22.7**	**22.7**	22.8	22.9	22.8	22.9	23.0	23.4	23.6	23.7	23.7	**22.7**	23.7	23.1
Jul 24	23.7	24.1	23.7	24.1	23.8	23.9	23.9	23.6	23.6	23.4	23.2	23.2	23.1	22.9	22.8	23.0	23.0	23.0	23.3	23.6	23.5	23.7	23.7	23.8	22.8	24.1	23.5
Jul 25	23.9	23.7	23.8	24.0	23.8	23.8	23.8	23.6	23.3	23.2	23.0	22.9	22.8	22.9	22.9	23.0	23.1	23.3	23.1	23.2	23.3	23.6	23.8	24.2	22.8	24.2	23.4
Jul 26	23.9	23.3	22.8	23.0	23.0	23.0	23.3	23.7	23.1	23.1	23.0	22.9	22.8	22.8	22.8	22.8	22.8	22.8	23.0	23.0	23.1	23.3	23.7	23.9	22.8	23.9	23.1
Jul 27	23.6	23.9	23.7	23.8	24.1	24.2	23.6	23.5	23.3	23.7	24.1	23.8	24.0	24.5	24.1	22.8	22.8	22.9	23.0	22.9	23.0	23.3	23.7	23.7	22.8	24.5	23.6
Jul 28	23.7	23.9	23.7	23.9	23.7	23.8	23.5	23.3	23.2	23.0	23.0	22.9	22.9	22.9	22.8	22.9	22.8	22.9	23.1	23.2	23.1	23.5	23.7	23.7	22.8	23.9	23.3
Jul 29	23.7	23.7	23.6	23.7	23.8	23.8	23.8	23.9	23.8	23.7	23.6	23.4	23.1	23.2	23.4	23.3	23.2	23.2	23.1	**P**	**P**	**P**	**P**	**P**	23.1	23.9	23.5
Jul 30	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Jul 31	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Diurnal Maximum	24.6	24.6	24.5	24.6	24.6	24.5	24.5	24.5	24.1	24.2	24.1	23.8	24.0	24.5	24.1	24.0	23.9	23.6	24.1	24.1	23.9	24.3	24.4	24.5			
Diurnal Average	23.5	23.5	23.4	23.4	23.3	23.4	23.5	23.5	23.4	23.3	23.2	23.1	23.1	23.1	23.1	23.1	23.1	23.2	23.2	23.3	23.3	23.5	23.6	23.6			

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

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

Timeseries Chart of Hourly Average for ST - 986c Station



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PEACE RIVER AREA MONITORING PROGRAM

986c Station - July 2022

Summary of Hourly Averages

PRECIPITATION in mm

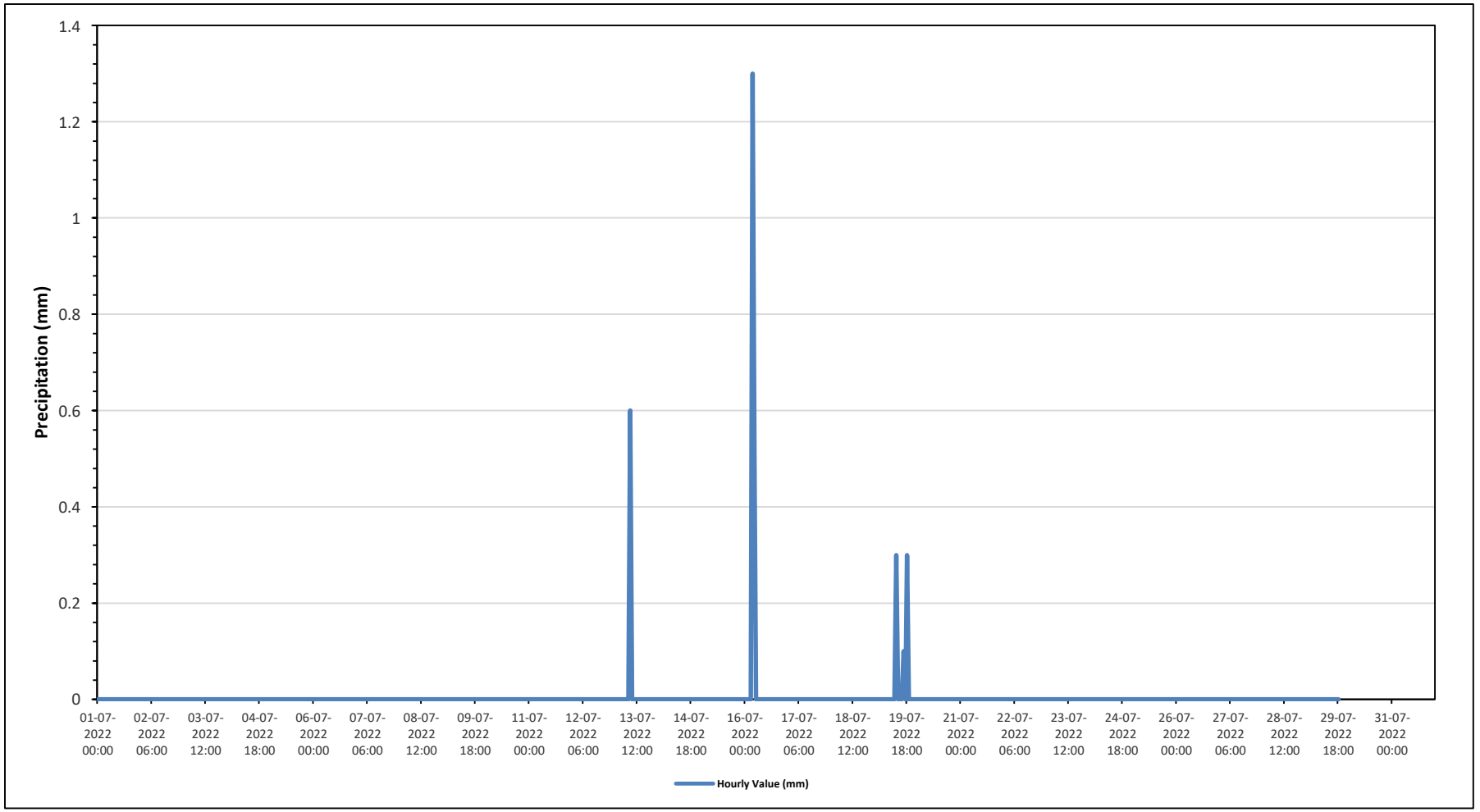
Maximum Hourly Value:	1.3	mm	on July 16 at hour 4	Hours in Service:	744
Maximum Daily Value:	1.8	mm	on July 16	Hours of Data:	691
Minimum Hourly Value:	0.0	mm	on July 1 at hour 0	Hours of Missing Data:	53
Minimum Daily Value:	0.0	mm	on July 1	Hours of Calibration:	0
Monthly Total:	3.1	mm		Operational Uptime:	92.9

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Total
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jul 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jul 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
Jul 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
Jul 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
Jul 13	0	0	0	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.6	0.6
Jul 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
Jul 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
Jul 16	0	0	0	0	**1.3**	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	**1.3**	**1.8**
Jul 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
Jul 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
Jul 19	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	0.1	0	0.3	0	0	0	0	0	0.0	0.3	0.7
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jul 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jul 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	P	P	P	P	P	0.0	0.0	0.0
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Diurnal Maximum	0.0	0.0	0.0	0.0	1.3	0.5	0.0	0.0	0.6	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.3	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 Precipitation - 986c Station



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PEACE RIVER AREA MONITORING PROGRAM

986c Station - July 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

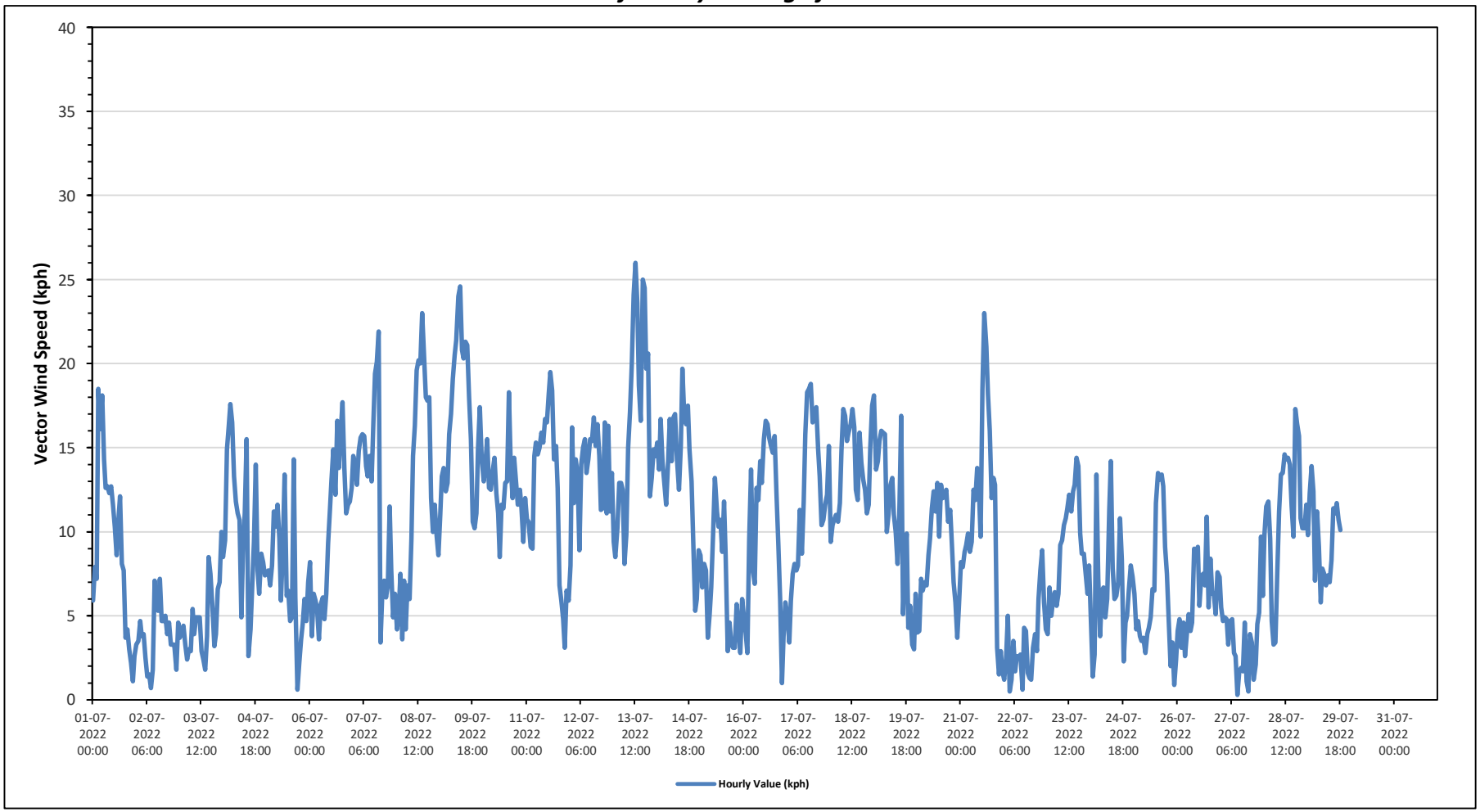
Maximum Hourly Value:	26.0	kph	on July 13 at hour 12	Hours in Service:	744
Maximum Daily Value:	16.1	kph	on July 9	Hours of Data:	691
Minimum Hourly Value:	0.3	kph	on July 27 at hour 9	Hours of Missing Data:	53
Minimum Daily Value:	1.0	kph	on July 2	Hours of Calibration:	0
Monthly Average:	4.8	kph		Operational Uptime:	92.9

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	5.9	7.9	7.2	18.5	16.1	18.1	14.3	12.6	12.7	12.3	12.7	11.6	10.3	8.6	10.7	12.1	8.1	7.7	3.7	4.2	3.0	2.2	1.1	2.6	1.1	18.5	7.1
Jul 2	3.3	3.5	4.7	3.8	3.9	2.5	1.4	1.5	0.7	1.8	7.1	5.5	5.3	7.2	4.7	4.7	5.0	3.9	4.6	3.3	3.3	3.3	1.8	4.6	0.7	7.2	**1.0**
Jul 3	3.7	4.1	4.4	3.3	2.4	3.0	2.9	5.4	3.9	4.9	4.9	4.9	2.9	2.4	1.8	3.8	8.5	7.5	5.4	3.2	3.9	6.6	7.0	10.0	1.8	10.0	1.6
Jul 4	8.5	9.5	14.9	16.3	17.6	16.5	13.3	11.8	11.1	10.7	4.9	9.3	11.1	15.5	2.6	4.2	6.6	9.4	14.0	7.7	6.3	8.7	8.2	7.4	2.6	17.6	9.6
Jul 5	7.5	7.7	6.8	8.0	11.2	10.3	11.6	9.6	5.9	8.9	13.4	6.2	6.5	4.7	4.9	14.3	6.1	0.6	2.2	3.6	4.5	6.0	4.7	7.0	0.6	14.3	4.1
Jul 6	8.2	3.8	6.3	5.9	5.4	3.6	5.7	6.1	4.8	6.3	9.3	11.3	13.1	14.9	12.2	16.6	13.8	15.9	17.7	13.8	11.1	11.6	11.8	12.6	3.6	17.7	9.7
Jul 7	14.5	14.0	12.8	14.8	15.6	15.8	15.7	13.9	13.3	14.5	13.0	16.6	19.4	20.1	21.9	3.4	6.0	7.1	6.1	6.8	11.5	7.7	4.9	6.3	3.4	21.9	11.2
Jul 8	4.2	5.0	7.5	3.6	7.1	4.2	6.8	6.0	9.6	14.5	16.3	19.6	20.2	20.0	23.0	20.5	18.0	17.8	18.0	12.0	10.0	11.6	9.8	8.6	3.6	23.0	10.8
Jul 9	11.0	13.3	13.8	12.4	12.9	15.8	17.0	19.1	20.5	21.4	24.0	24.6	20.8	20.3	21.3	21.1	18.0	15.5	10.6	10.2	11.1	14.9	17.4	14.4	10.2	24.6	**16.1**
Jul 10	13.0	14.0	15.5	12.6	12.5	13.5	14.4	12.3	11.1	8.5	11.6	11.4	12.9	13.0	18.3	13.9	12.0	14.4	13.0	11.6	12.5	11.4	9.4	12.0	8.5	18.3	12.4
Jul 11	10.7	10.6	9.1	9.0	14.5	15.3	14.6	15.0	15.9	15.3	16.7	16.5	18.2	19.5	18.4	14.3	15.1	12.6	6.8	5.9	4.8	3.1	6.5	5.9	3.1	19.5	11.7
Jul 12	8.0	16.2	11.7	14.3	13.4	8.9	14.0	15.0	15.5	13.5	14.3	15.5	15.4	16.8	15.1	16.4	14.5	11.3	11.4	16.5	11.1	16.3	11.2	13.5	8.0	16.8	13.0
Jul 13	9.4	8.5	10.2	12.9	12.9	12.5	8.1	9.8	15.0	17.1	20.0	24.1	**26.0**	23.6	18.7	16.6	25.0	24.5	19.7	20.6	12.1	13.2	14.9	14.5	8.1	**26.0**	15.6
Jul 14	15.3	13.7	16.7	14.2	12.9	11.6	14.0	16.7	14.2	16.8	17.0	14.4	12.5	15.1	19.7	16.9	16.4	17.5	14.9	13.0	9.1	5.3	6.0	8.9	5.3	19.7	13.4
Jul 15	8.6	6.7	8.1	7.7	3.7	5.1	6.7	9.8	13.2	11.2	10.3	10.7	8.8	11.8	8.6	2.9	4.6	3.3	3.1	3.1	5.7	4.4	2.8	6.0	2.8	13.2	6.1
Jul 16	4.9	3.9	2.8	9.6	13.7	7.6	6.9	12.6	11.9	14.2	12.9	15.5	16.6	16.4	15.6	15.1	14.7	15.7	12.3	9.3	6.0	1.0	3.8	5.8	1.0	16.6	9.1
Jul 17	5.1	3.4	5.9	7.5	8.1	7.7	8.0	11.3	8.7	11.8	15.8	18.3	18.5	18.8	16.5	16.9	17.4	14.9	13.3	10.4	10.7	11.6	12.2	15.1	3.4	18.8	11.2
Jul 18	9.4	10.4	10.7	11.0	10.6	11.7	14.8	17.3	16.9	15.4	15.9	16.4	17.3	16.2	12.5	11.9	15.9	14.1	13.1	12.5	11.1	11.6	15.0	17.5	9.4	17.5	13.1
Jul 19	18.1	13.7	14.2	15.4	16.0	15.9	15.8	10.0	11.1	12.8	13.2	11.0	10.0	8.1	11.2	16.9	5.1	8.3	9.9	4.3	5.6	3.3	3.0	6.3	3.0	18.1	9.2
Jul 20	4.0	4.1	7.2	6.5	7.0	6.8	8.6	9.6	11.4	12.4	11.2	12.9	9.7	12.8	12.0	12.2	12.5	10.6	11.3	9.4	7.0	5.8	3.7	5.5	3.7	12.9	8.6
Jul 21	8.2	7.9	8.8	9.2	9.9	8.8	9.4	12.5	11.9	13.8	12.3	9.7	18.5	23.0	21.0	18.2	16.0	12.0	13.2	12.8	3.1	1.5	2.9	1.7	1.5	23.0	4.3
Jul 22	1.2	2.4	5.0	0.5	1.2	3.5	1.7	2.6	2.5	2.7	0.6	4.3	4.1	1.6	1.3	1.2	3.1	3.9	2.9	6.0	7.7	8.9	5.8	4.2	0.5	8.9	1.4
Jul 23	3.9	6.7	5.0	5.9	6.4	5.6	6.3	9.2	9.5	10.4	10.8	11.4	12.2	11.2	12.4	12.8	14.4	13.9	9.9	8.7	8.7	7.5	6.3	8.0	3.9	14.4	6.8
Jul 24	4.7	1.4	2.7	13.4	7.2	3.8	6.5	6.7	4.9	6.0	11.3	14.2	7.8	6.0	6.2	7.0	10.8	8.3	2.3	4.6	5.0	6.6	8.0	7.3	1.4	14.2	3.9
Jul 25	6.3	4.2	4.7	3.8	3.5	3.7	2.8	3.9	4.3	4.9	6.6	6.5	11.7	13.5	13.1	13.4	12.7	9.1	7.5	4.7	2.0	3.4	0.9	2.4	0.9	13.5	3.5
Jul 26	4.1	4.8	3.1	4.6	2.6	3.9	5.1	4.1	4.6	9.0	8.5	9.1	5.6	7.3	7.5	6.8	10.9	5.5	8.4	6.3	6.3	5.1	7.6	7.3	2.6	10.9	5.5
Jul 27	5.5	4.7	4.9	4.8	3.3	4.7	4.8	2.8	2.6	**0.3**	1.7	1.9	1.7	4.6	1.1	0.5	3.9	3.4	1.2	2.1	4.5	5.2	9.7	6.2	**0.3**	9.7	2.6
Jul 28	9.8	11.5	11.8	9.6	4.7	3.3	3.4	7.5	11.2	13.4	13.5	14.6	14.3	14.4	14.0	11.5	9.7	17.3	16.4	15.7	10.8	10.2	10.2	11.6	3.3	17.3	2.1
Jul 29	9.8	12.3	13.9	12.4	7.1	11.2	9.1	5.8	7.8	7.5	6.8	7.4	7.0	8.3	11.4	11.1	11.7	10.7	10.1	**P**	**P**	**P**	**P**	**P**	5.8	13.9	8.3
Jul 30	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Jul 31	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Diurnal Maximum	18	16	17	19	18	18	17	19	21	21	24	25	26	24	23	21	25	25	20	21	13	16	17	18			
Diurnal Average	7.8	7.9	8.6	9.4	9.1	8.8	9.1	9.7	9.9	10.8	11.6	12.3	12.4	13.0	12.3	11.6	11.6	10.9	9.8	8.7	7.4	7.4	7.4	8.3			

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

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

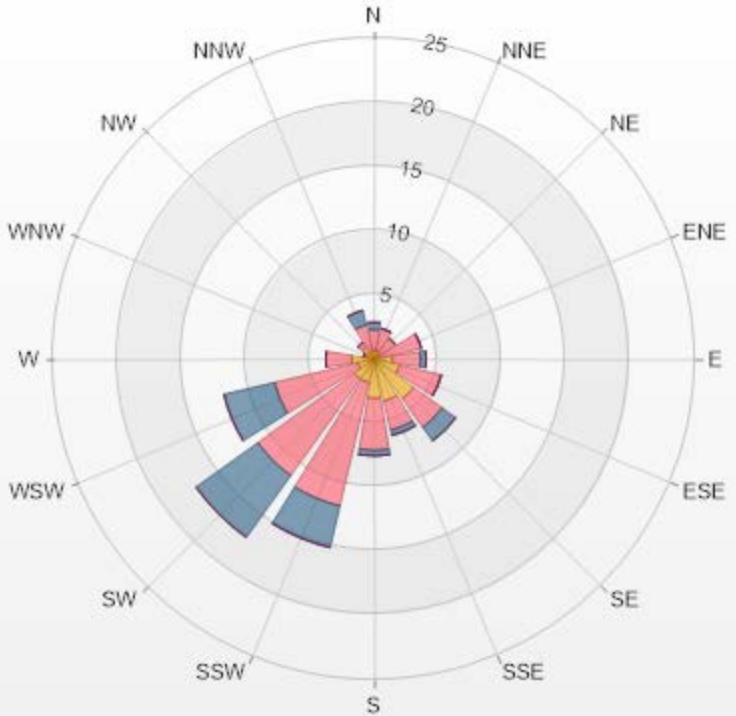
Timeseries Chart of Hourly Average for VWS - 986c Station



Wind: PRAMP 986c Monitor: WDS [KPH] Monthly: 07-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 3.76% Valid Data: 92.88%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.72	1.59	0.58	0	0	2.89
NNE	0.72	1.74	0	0	0	2.46
NE	0.43	1.59	0	0	0	2.02
ENE	0.43	3.33	0	0	0	3.76
E	1.45	2.17	0.43	0	0	4.05
ESE	2.03	3.33	0	0	0	5.36
SE	3.76	2.75	1.3	0	0	7.81
SSE	3.33	2.32	0.43	0	0	6.08
S	3.04	4.05	0.43	0	0	7.52
SSW	1.88	9.84	3.33	0	0	15.05
SW	1.88	9.26	5.93	0	0	17.07
WSW	1.3	6.66	4.05	0	0	12.01
W	1.74	2.03	0	0	0	3.77
WNW	0.58	0.29	0	0	0	0.87
NW	1.16	0.43	0	0	0	1.59
NNW	0.58	2.17	1.16	0	0	3.91
Summary	25.03	53.55	17.64	0	0	96.22

PRAMP 986c 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 3.76% Calm Wind Avg Speed: 1.20(KPH)



% Icon	Classes (KPH)									
25	1.8-6.0	54	6.0-15.0	18	15.0-29.0	0	29.0-39.0	0	>39.0

PEACE RIVER AREA MONITORING PROGRAM

986c Station - July 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

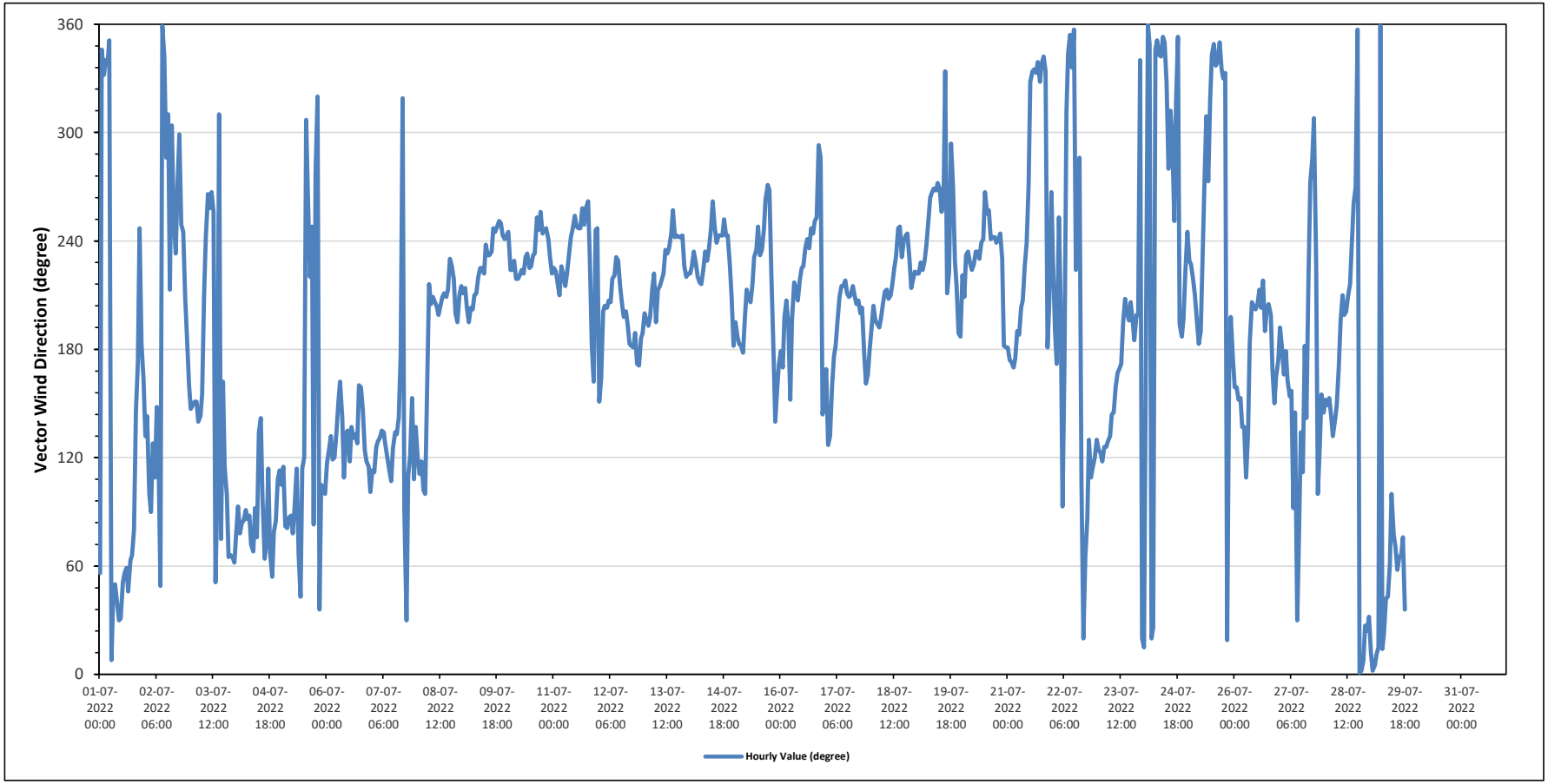
Monthly Average:	210 (SSW)	degree	
		Hours in Service:	744
		Hours of Data:	691
		Hours of Missing Data:	53
		Hours of Calibration:	0
		Operational Uptime:	92.9

Day	Hourly Period Starting at (MST)																						Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Jul 1	NE	NNW	NNW	NNW	NNW	N	N	NE	NE	NE	NNE	NNE	NE	NE	ENE	NE	ENE	ENE	E	SE	S	WSW	S	SSE	27	NNE
Jul 2	SE	SE	E	E	SE	ESE	SE	ESE	NE	N	NNW	WNW	NW	SSW	WNW	WSW	SW	W	WNW	WSW	WSW	SSW	S	SSE	236	SW
Jul 3	SE	SSE	SSE	SSE	SE	SE	SSE	SSW	WSW	W	WSW	W	WSW	NE	E	NW	ENE	SSE	ESE	E	ENE	ENE	ENE	ENE	123	ESE
Jul 4	ENE	E	ENE	E	E	E	E	E	ENE	ENE	E	ENE	SE	SE	E	ENE	ENE	ESE	ENE	NE	ENE	E	ESE	ESE	89	E
Jul 5	ESE	ESE	E	E	E	E	ENE	E	ESE	ENE	NE	ESE	ESE	NW	W	SW	WSW	E	W	NW	NE	ESE	E	E	92	E
Jul 6	ESE	ESE	SE	ESE	ESE	SE	SSE	SSE	SE	ESE	SE	SE	ESE	SE	SE	SE	SE	SSE	SSE	SE	ESE	ESE	ESE	E	132	SE
Jul 7	ESE	ESE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	SE	SE	SE	SE	S	NW	E	NNE	ESE	ESE	SSE	ESE	SE	125	SE
Jul 8	ESE	ESE	ESE	E	E	SSE	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	204	SSW
Jul 9	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	227	SW
Jul 10	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	233	SW
Jul 11	SW	SW	SW	SSW	SW	SW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	SW	S	SSE	WSW	WSW	237	SW
Jul 12	SSE	SSE	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	S	S	S	S	S	S	S	S	197	SSW
Jul 13	SSW	SSW	S	SSW	SSW	SW	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	228	SW
Jul 14	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	S	234	SW
Jul 15	SSW	S	S	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	SW	SW	WSW	W	W	W	SW	S	SE	SSE	S	212	SSW
Jul 16	S	SSE	SSW	SSW	SSW	SSE	SSW	SW	SSW	SSW	SW	SW	SW	SW	WSW	SW	WSW	WSW	WSW	WSW	WNW	WNW	SE	SSE	222	SW
Jul 17	SSE	SE	SE	SSE	S	S	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSE	SSE	S	197	SSW
Jul 18	S	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	SW	WSW	WSW	WSW	SW	SSW	SW	SW	219	SW
Jul 19	SW	SW	SW	SW	SW	SW	WSW	W	W	W	W	W	W	WSW	W	NNW	SSW	SW	WNW	W	SW	SSW	S	S	248	WSW
Jul 20	SW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	S	S	237	SW
Jul 21	S	S	S	SSE	S	S	S	SSW	SSW	SW	WSW	W	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	S	SSW	W	281	W
Jul 22	SW	S	S	WSW	SSW	E	S	NW	NNW	N	NNW	N	SW	WSW	WNW	ESE	NNE	ENE	E	SE	ESE	ESE	ESE	SE	115	ESE
Jul 23	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	NNW	NNE	172	S
Jul 24	NNE	SSE	N	NNW	NNE	NNE	NNW	N	NNW	NNW	N	N	NNW	W	NW	WNW	WSW	NW	N	SSW	S	SSW	SW	WSW	321	NW
Jul 25	SW	SW	SW	SSW	SSW	S	S	SW	W	NW	W	NW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNE	SSE	SSW	S	313	NW
Jul 26	SSE	SSE	SSE	SSE	SE	SE	ESE	SE	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	S	SSW	SSW	SSW	SSE	SSE	SSE	S	184	S
Jul 27	S	S	SSE	S	SSE	SSE	SSE	E	SE	NNE	ENE	SE	ESE	S	SE	SW	W	WNW	NW	SW	E	SE	SSE	SE	160	SSE
Jul 28	SSE	SSE	SSE	SE	SE	SE	SSE	SSE	SSW	SSW	SSW	SSW	SSW	SW	WSW	W	W	N	N	N	N	NNE	NNE	NNE	205	SSW
Jul 29	NNE	N	N	NNE	NNE	N	NNE	NNE	NE	NE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	NE	P	P	P	P	P	38	NE
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-

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

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

Timeseries Chart of Hourly Average for VWD - 986c Station



peace river area monitoring program

pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - July 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	26.0	kph	on July 13 at hour 12	Hours in Service:	744
Maximum Daily Value:	16.1	kph	on July 9	Hours of Data:	691
Minimum Hourly Value:	0.3	kph	on July 27 at hour 9	Hours of Missing Data:	53
Minimum Daily Value:	1.0	kph	on July 2	Hours of Calibration:	0
Monthly Average:	4.8	kph		Operational Uptime:	92.9

WIND DIRECTION

Monthly Average: 210 (SSW) 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			
Jul 1	5.9	7.9	7.2	18.5	16.1	18.1	14.3	12.6	12.7	12.3	12.7	11.6	10.3	8.6	10.7	12.1	8.1	7.7	3.7	4.2	3.0	2.2	1.1	2.6	1.1	18.5	7.1
	NE	NNW	NNW	NNW	NNW	N	N	NE	NE	NE	NNE	NNE	NE	NE	ENE	NE	ENE	ENE	E	SE	S	WSW	S	SSE			
Jul 2	3.3	3.5	4.7	3.8	3.9	2.5	1.4	1.5	0.7	1.8	7.1	5.5	5.3	7.2	4.7	4.7	5.0	3.9	4.6	3.3	3.3	3.3	1.8	4.6	0.7	7.2	**1.0**
	SE	SE	E	E	SE	ESE	SE	ESE	NE	N	NNW	WNW	NW	SSW	WNW	WSW	SW	W	WNW	WSW	WSW	SSW	S	SSE			
Jul 3	3.7	4.1	4.4	3.3	2.4	3.0	2.9	5.4	3.9	4.9	4.9	4.9	2.9	2.4	1.8	3.8	8.5	7.5	5.4	3.2	3.9	6.6	7.0	10.0	1.8	10.0	1.6
	SE	SSE	SSE	SSE	SE	SE	SSE	SSW	WSW	W	WSW	W	WSW	NE	E	NW	ENE	SSE	ESE	E	ENE	ENE	ENE	ENE			
Jul 4	8.5	9.5	14.9	16.3	17.6	16.5	13.3	11.8	11.1	10.7	4.9	9.3	11.1	15.5	2.6	4.2	6.6	9.4	14.0	7.7	6.3	8.7	8.2	7.4	2.6	17.6	9.6
	ENE	E	ENE	E	E	E	E	E	ENE	ENE	E	ENE	SE	SE	E	ENE	ENE	ESE	ENE	NE	ENE	E	ESE	ESE			
Jul 5	7.5	7.7	6.8	8.0	11.2	10.3	11.6	9.6	5.9	8.9	13.4	6.2	6.5	4.7	4.9	14.3	6.1	0.6	2.2	3.6	4.5	6.0	4.7	7.0	0.6	14.3	4.1
	ESE	ESE	E	E	E	E	ENE	E	ESE	ENE	NE	ESE	ESE	NW	W	SW	WSW	E	W	NW	NE	ESE	E	E			
Jul 6	8.2	3.8	6.3	5.9	5.4	3.6	5.7	6.1	4.8	6.3	9.3	11.3	13.1	14.9	12.2	16.6	13.8	15.9	17.7	13.8	11.1	11.6	11.8	12.6	3.6	17.7	9.7
	ESE	ESE	SE	ESE	ESE	SE	SSE	SSE	SE	ESE	SE	SE	ESE	SE	SE	SE	SE	SSE	SSE	SE	ESE	ESE	ESE	E			
Jul 7	14.5	14.0	12.8	14.8	15.6	15.8	15.7	13.9	13.3	14.5	13.0	16.6	19.4	20.1	21.9	3.4	6.0	7.1	6.1	6.8	11.5	7.7	4.9	6.3	3.4	21.9	11.2
	ESE	ESE	SE	SE	SE	SE	SE	SE	ESE	ESE	ESE	SE	SE	SE	SE	S	NW	E	NNE	ESE	ESE	SSE	ESE	SE			
Jul 8	4.2	5.0	7.5	3.6	7.1	4.2	6.8	6.0	9.6	14.5	16.3	19.6	20.2	20.0	23.0	20.5	18.0	17.8	18.0	12.0	10.0	11.6	9.8	8.6	3.6	23.0	10.8
	ESE	ESE	ESE	E	E	SSE	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW			
Jul 9	11.0	13.3	13.8	12.4	12.9	15.8	17.0	19.1	20.5	21.4	24.0	24.6	20.8	20.3	21.3	21.1	18.0	15.5	10.6	10.2	11.1	14.9	17.4	14.4	10.2	24.6	**16.1**
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW			
Jul 10	13.0	14.0	15.5	12.6	12.5	13.5	14.4	12.3	11.1	8.5	11.6	11.4	12.9	13.0	18.3	13.9	12.0	14.4	13.0	11.6	12.5	11.4	9.4	12.0	8.5	18.3	12.4
	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW			
Jul 11	10.7	10.6	9.1	9.0	14.5	15.3	14.6	15.0	15.9	15.3	16.7	16.5	18.2	19.5	18.4	14.3	15.1	12.6	6.8	5.9	4.8	3.1	6.5	5.9	3.1	19.5	11.7
	SW	SW	SW	SSW	SW	SW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	SW	S	SSE	WSW	WSW			
Jul 12	8.0	16.2	11.7	14.3	13.4	8.9	14.0	15.0	15.5	13.5	14.3	15.5	15.4	16.8	15.1	16.4	14.5	11.3	11.4	16.5	11.1	16.3	11.2	13.5	8.0	16.8	13.0
	SSE	SSE	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	S	S	S	S	S	S	S	S			
Jul 13	9.4	8.5	10.2	12.9	12.9	12.5	8.1	9.8	15.0	17.1	20.0	24.1	**26.0**	23.6	18.7	16.6	25.0	24.5	19.7	20.6	12.1	13.2	14.9	14.5	8.1	**26.0**	15.6
	SSW	SSW	S	SSW	SSW	SW	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW			
Jul 14	15.3	13.7	16.7	14.2	12.9	11.6	14.0	16.7	14.2	16.8	17.0	14.4	12.5	15.1	19.7	16.9	16.4	17.5	14.9	13.0	9.1	5.3	6.0	8.9	5.3	19.7	13.4
	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SSW	S			
Jul 15	8.6	6.7	8.1	7.7	3.7	5.1	6.7	9.8	13.2	11.2	10.3	10.7	8.8	11.8	8.6	2.9	4.6	3.3	3.1	3.1	5.7	4.4	2.8	6.0	2.8	13.2	6.1
	SSW	S	S	S	S	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	SW	SW	WSW	W	W	W	SW	S	SE	SSE	S			
Jul 16	4.9	3.9	2.8	9.6	13.7	7.6	6.9	12.6	11.9	14.2	12.9	15.5	16.6	16.4	15.6	15.1	14.7	15.7	12.3	9.3	6.0	1.0	3.8	5.8	1.0	16.6	9.1
	S	SSE	SSW	SSW	SSW	SSE	SSW	SW	SSW	SSW	SW	SW	SW	SW	WSW	SW	WSW	WSW	WSW	WSW	WNW	WNW	SE	SSE			
Jul 17	5.1	3.4	5.9	7.5	8.1	7.7	8.0	11.3	8.7	11.8	15.8	18.3	18.5	18.8	16.5	16.9	17.4	14.9	13.3	10.4	10.7	11.6	12.2	15.1	3.4	18.8	11.2
	SSE	SE	SE	SSE	S	S	SSW	SSW	SSW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSE	SSE	S			
Jul 18	9.4	10.4	10.7	11.0	10.6	11.7	14.8	17.3	16.9	15.4	15.9	16.4	17.3	16.2	12.5	11.9	15.9	14.1	13.1	12.5	11.1	11.6	15.0	17.5	9.4	17.5	13.1
	S	SSW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	SW	WSW	WSW	WSW	SW	SSW	SW	SW			
Jul 19	18.1	13.7	14.2	15.4	16.0	15.9	15.8	10.0	11.1	12.8	13.2	11.0	10.0	8.1	11.2	16.9	5.1	8.3	9.9	4.3	5.6	3.3	3.0	6.3	3.0	18.1	9.2
	SW	SW	SW	SW	SW	SW	WSW	W	W	W	W	W	W	WSW	W	NNW	SSW	SW	WNW	W	SW	SSW	S	S			
Jul 20	4.0	4.1	7.2	6.5	7.0	6.8	8.6	9.6	11.4	12.4	11.2	12.9	9.7	12.8	12.0	12.2	12.5	10.6	11.3	9.4	7.0	5.8	3.7	5.5	3.7	12.9	8.6
	SW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	S	S			

peace river area monitoring program
pramp

PEACE RIVER AREA MONITORING PROGRAM

986c Station - July 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	26.0	kph	on July 13 at hour 12	Hours in Service:	744
Maximum Daily Value:	16.1	kph	on July 9	Hours of Data:	691
Minimum Hourly Value:	0.3	kph	on July 27 at hour 9	Hours of Missing Data:	53
Minimum Daily Value:	1.0	kph	on July 2	Hours of Calibration:	0
Monthly Average:	4.8	kph		Operational Uptime:	92.9

WIND DIRECTION

Monthly Average: 210 (SSW) 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			
Jul 21	8.2	7.9	8.8	9.2	9.9	8.8	9.4	12.5	11.9	13.8	12.3	9.7	18.5	23.0	21.0	18.2	16.0	12.0	13.2	12.8	3.1	1.5	2.9	1.7	1.5	23.0	4.3
	S	S	S	SSE	S	S	S	SSW	SSW	SW	WSW	W	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	S	SSW	W			
Jul 22	1.2	2.4	5.0	0.5	1.2	3.5	1.7	2.6	2.5	2.7	0.6	4.3	4.1	1.6	1.3	1.2	3.1	3.9	2.9	6.0	7.7	8.9	5.8	4.2	0.5	8.9	1.4
	SW	S	S	WSW	SSW	E	S	NW	NNW	N	NNW	N	SW	WSW	WNW	ESE	NNE	ENE	E	SE	ESE	ESE	ESE	SE			
Jul 23	3.9	6.7	5.0	5.9	6.4	5.6	6.3	9.2	9.5	10.4	10.8	11.4	12.2	11.2	12.4	12.8	14.4	13.9	9.9	8.7	8.7	7.5	6.3	8.0	3.9	14.4	6.8
	ESE	ESE	ESE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	S	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	SSW	NNW	NNE			
Jul 24	4.7	1.4	2.7	13.4	7.2	3.8	6.5	6.7	4.9	6.0	11.3	14.2	7.8	6.0	6.2	7.0	10.8	8.3	2.3	4.6	5.0	6.6	8.0	7.3	1.4	14.2	3.9
	NNE	SSE	N	NNW	NNE	NNE	NNW	N	NNW	NNW	N	N	NNW	W	NW	WNW	WSW	NW	N	SSW	S	SSW	SW	WSW			
Jul 25	6.3	4.2	4.7	3.8	3.5	3.7	2.8	3.9	4.3	4.9	6.6	6.5	11.7	13.5	13.1	13.4	12.7	9.1	7.5	4.7	2.0	3.4	0.9	2.4	0.9	13.5	3.5
	SW	SW	SW	SSW	SSW	S	S	SW	W	NW	W	NW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNE	SSE	SSW	S			
Jul 26	4.1	4.8	3.1	4.6	2.6	3.9	5.1	4.1	4.6	9.0	8.5	9.1	5.6	7.3	7.5	6.8	10.9	5.5	8.4	6.3	6.3	5.1	7.6	7.3	2.6	10.9	5.5
	SSE	SSE	SSE	SSE	SE	SE	ESE	SE	S	SSW	SSW	SSW	SSW	SSW	SSW	SW	S	SSW	SSW	SSW	SSE	SSE	SSE	S			
Jul 27	5.5	4.7	4.9	4.8	3.3	4.7	4.8	2.8	2.6	**0.3**	1.7	1.9	1.7	4.6	1.1	0.5	3.9	3.4	1.2	2.1	4.5	5.2	9.7	6.2	**0.3**	9.7	2.6
	S	S	SSE	S	SSE	SSE	SSE	E	SE	NNE	ENE	SE	ESE	S	SE	SW	W	WNW	NW	SW	E	SE	SSE	SE			
Jul 28	9.8	11.5	11.8	9.6	4.7	3.3	3.4	7.5	11.2	13.4	13.5	14.6	14.3	14.4	14.0	11.5	9.7	17.3	16.4	15.7	10.8	10.2	10.2	11.6	3.3	17.3	2.1
	SSE	SSE	SSE	SE	SE	SE	SSE	SSE	SSW	SSW	SSW	SSW	SSW	SW	WSW	W	W	N	N	N	N	NNE	NNE	NNE			
Jul 29	9.8	12.3	13.9	12.4	7.1	11.2	9.1	5.8	7.8	7.5	6.8	7.4	7.0	8.3	11.4	11.1	11.7	10.7	10.1	**P**	**P**	**P**	**P**	**P**	5.8	13.9	8.3
	NNE	N	N	NNE	NNE	N	NNE	NNE	NE	NE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	NE	**P**	**P**	**P**	**P**	**P**			
Jul 30	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
	P	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**			
Jul 31	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
	P	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**			

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 - July 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

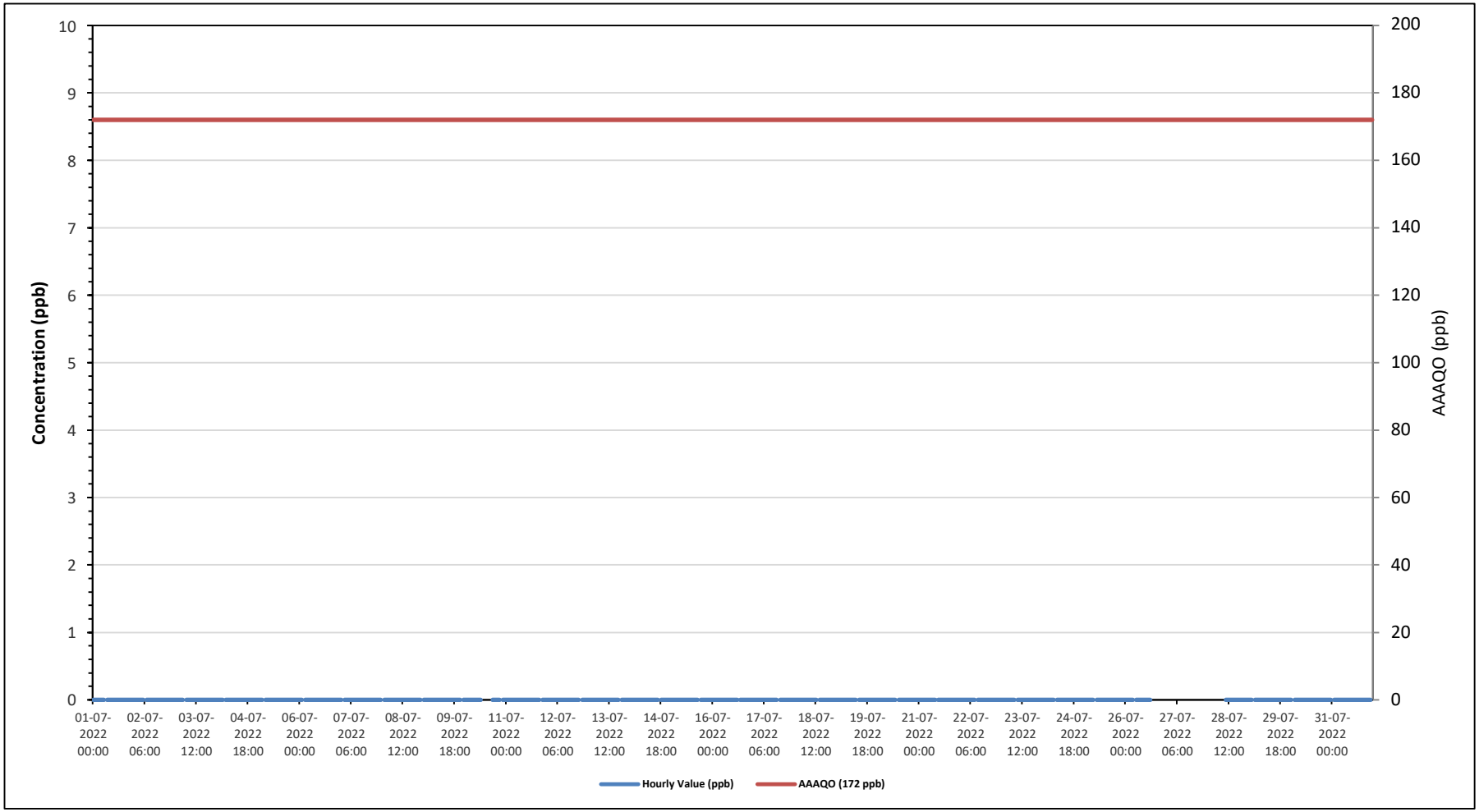
Maximum Hourly Value:	0	ppb	on July 1 at hour 0	Hours in Service:	744
Maximum Daily Value:	0.0	ppb	on July 1	Hours of Data:	664
Minimum Hourly Value:	0	ppb	on July 1 at hour 0	Hours of Missing Data:	42
Minimum Daily Value:	0.0	ppb	on July 1	Hours of Calibration:	38
Monthly Average:	0.0	ppb		Operational Uptime:	94.4

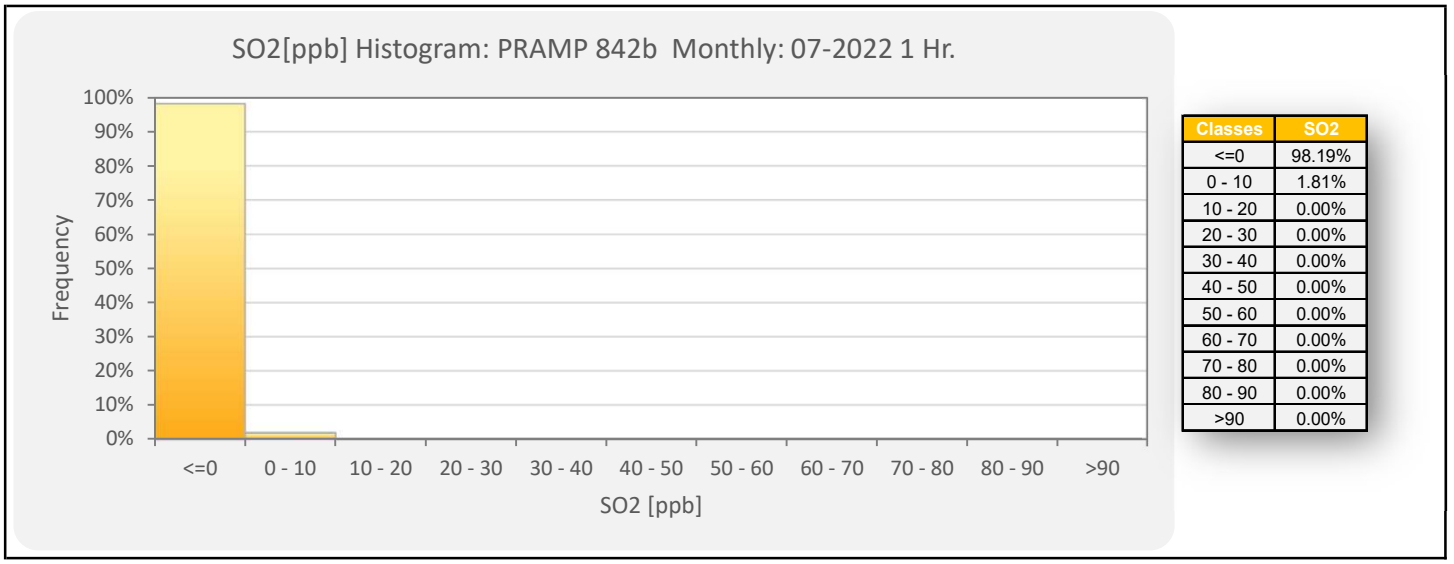
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 2	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 3	0	0	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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 10	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	0	0	0	0	0	S	0	0	0	0	-
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 16	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
Jul 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
Jul 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
Jul 19	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
Jul 20	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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 26	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	N	N	N	N	N	N	N	N	N	0	0	-
Jul 27	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	-	-
Jul 28	N	N	N	N	N	N	N	N	N	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Jul 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
Jul 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
Jul 31	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	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 SO2 - 842b Station

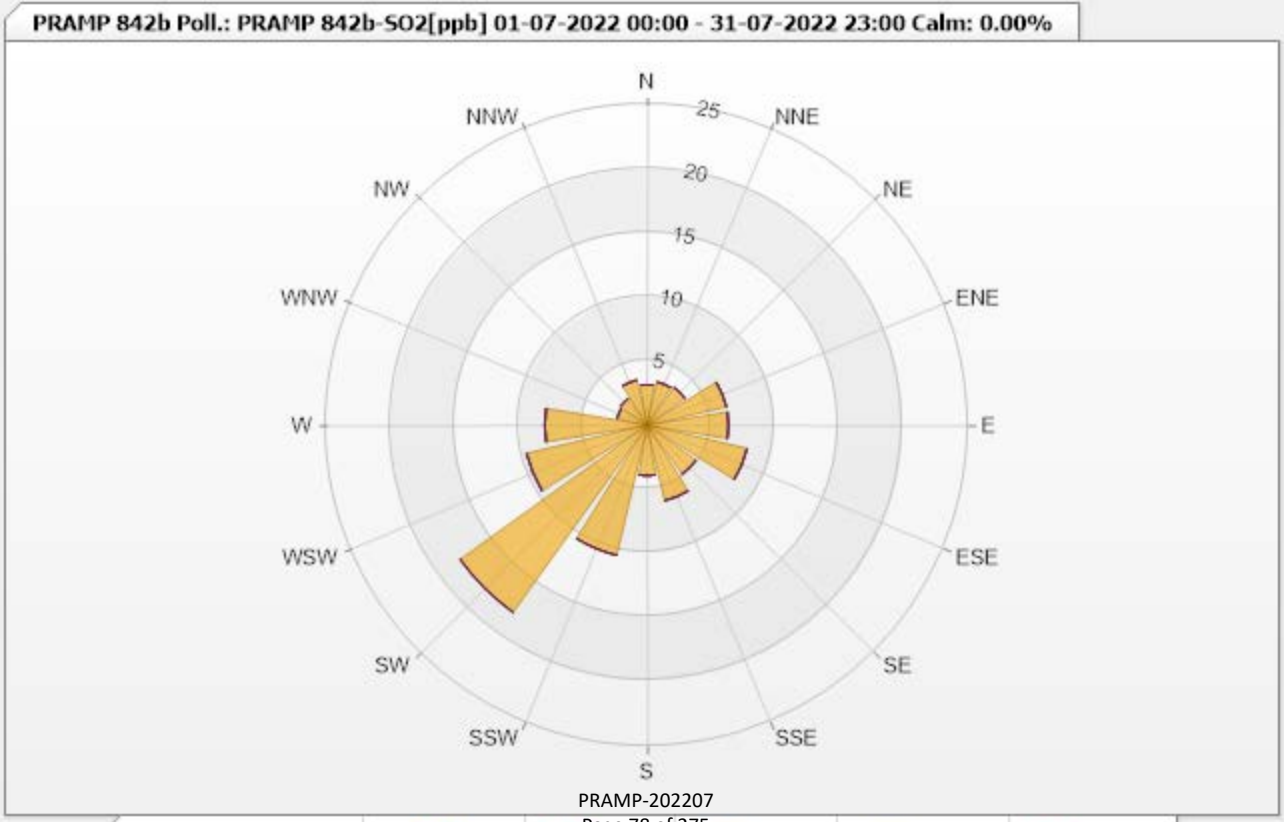




Classes	SO2
<=0	98.19%
0 - 10	1.81%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-SO2[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 89.25% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	3.16	0	0	0	0	3.16
NNE	3.46	0	0	0	0	3.46
NE	3.61	0	0	0	0	3.61
ENE	6.33	0	0	0	0	6.33
E	6.33	0	0	0	0	6.33
ESE	7.98	0	0	0	0	7.98
SE	4.67	0	0	0	0	4.67
SSE	6.02	0	0	0	0	6.02
S	3.92	0	0	0	0	3.92
SSW	10.39	0	0	0	0	10.39
SW	17.92	0	0	0	0	17.92
WSW	9.64	0	0	0	0	9.64
W	7.98	0	0	0	0	7.98
WNW	2.41	0	0	0	0	2.41
NW	2.56	0	0	0	0	2.56
NNW	3.61	0	0	0	0	3.61
Summary	100	0	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-SO2[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
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 - July 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

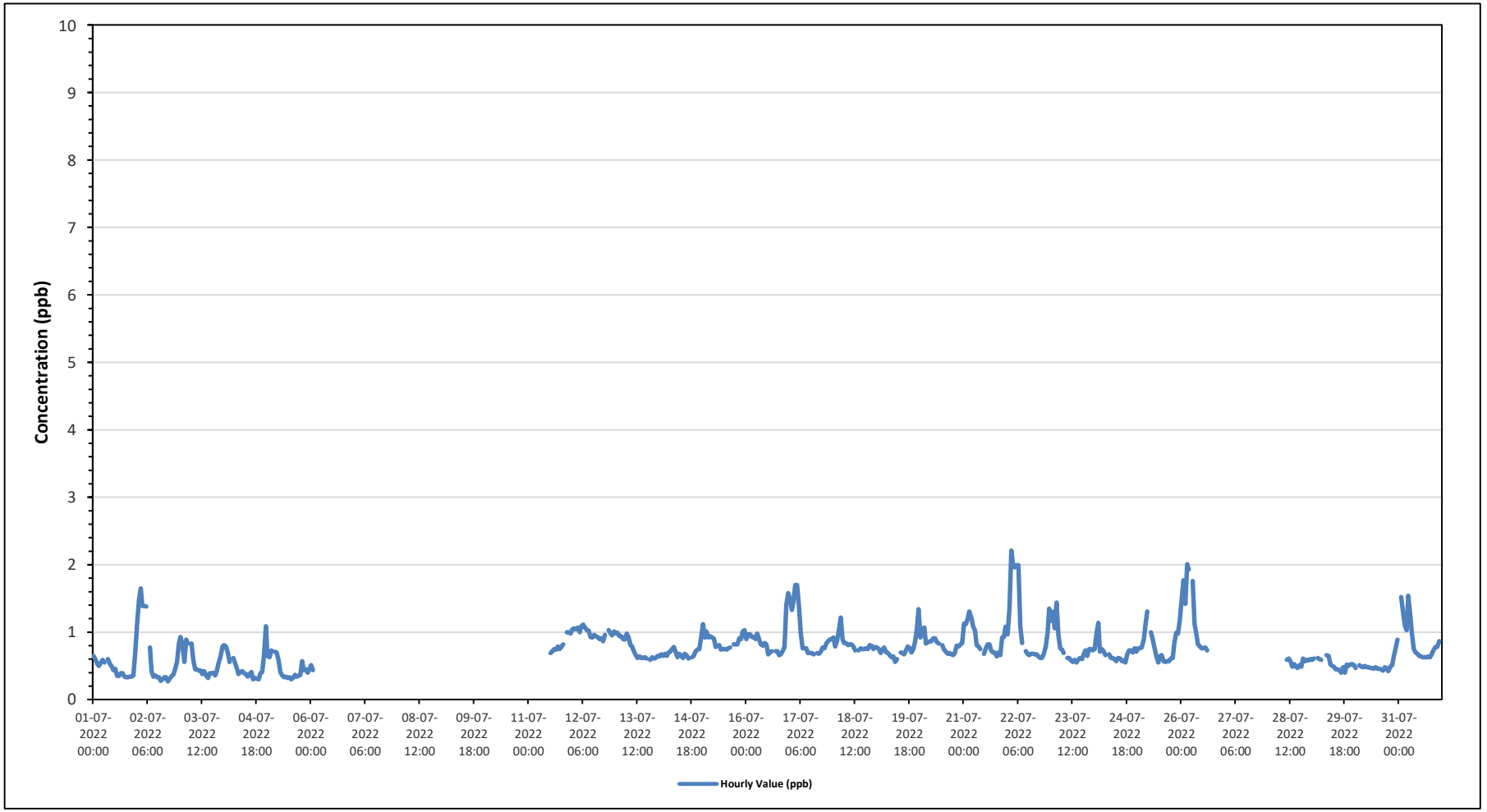
Maximum Hourly Value:	2.21	ppb	on July 22 at hour 2	Hours in Service:	744
Maximum Daily Value:	1.08	ppb	on July 22	Hours of Data:	544
Minimum Hourly Value:	0.27	ppb	on July 2 at hour 17	Hours of Missing Data:	169
Minimum Daily Value:	0.46	ppb	on July 5	Hours of Calibration:	31
Monthly Average:	0.75	ppb		Operational Uptime:	77.3

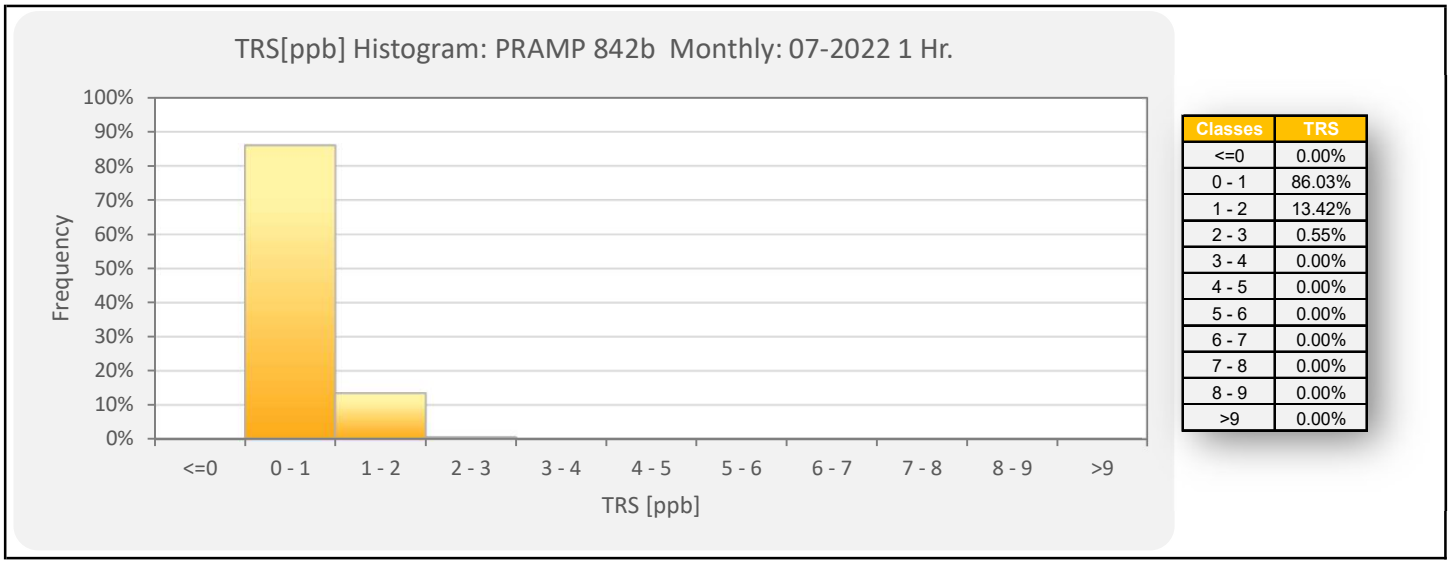
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	0.65	0.6	0.53	0.5	0.55	0.59	0.55	S	0.6	0.53	0.49	0.44	0.46	0.35	0.35	0.39	0.39	0.34	0.33	0.33	0.34	0.34	0.36	0.7	0.33	0.70	0.47
Jul 2	1.12	1.47	1.65	1.39	1.39	1.38	S	0.77	0.42	0.34	0.36	0.33	0.33	0.28	0.3	0.33	0.33	0.27	0.31	0.35	0.37	0.46	0.56	0.83	**0.27**	1.65	0.67
Jul 3	0.93	0.83	0.56	0.89	0.83	S	0.83	0.58	0.45	0.45	0.43	0.43	0.38	0.42	0.36	0.32	0.39	0.39	0.4	0.36	0.42	0.54	0.65	0.79	0.32	0.93	0.55
Jul 4	0.81	0.79	0.7	0.56	S	0.62	0.54	0.46	0.38	0.41	0.42	0.39	0.38	0.34	0.38	0.41	0.3	0.32	0.31	0.3	0.39	0.41	0.66	1.09	0.30	1.09	0.49
Jul 5	0.65	0.63	0.73	S	0.71	0.7	0.59	0.41	0.36	0.33	0.34	0.32	0.33	0.3	0.32	0.37	0.34	0.35	0.37	0.57	0.44	0.45	0.4	0.46	0.30	0.73	0.46
Jul 6	0.51	0.44	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0.44	0.51	-
Jul 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 11	X	X	X	X	X	X	X	X	C	C	C	C	0.69	0.72	0.75	0.74	0.79	0.75	0.78	0.82	S	1	1	0.98	0.69	1.00	-
Jul 12	1.04	1.06	1.04	1.07	1	1.09	1.11	1.07	1.03	1.02	0.93	0.92	0.96	0.94	0.93	0.9	0.91	0.87	0.96	S	1.03	0.99	0.95	1.01	0.87	1.11	0.99
Jul 13	0.98	0.99	0.94	0.94	0.9	0.89	0.98	0.92	0.81	0.79	0.72	0.66	0.62	0.64	0.62	0.62	0.63	0.61	S	0.59	0.63	0.61	0.62	0.65	0.59	0.99	0.75
Jul 14	0.64	0.67	0.65	0.68	0.65	0.7	0.71	0.75	0.78	0.69	0.63	0.68	0.65	0.62	0.68	0.66	0.61	S	0.63	0.65	0.72	0.74	0.75	0.93	0.61	0.93	0.69
Jul 15	1.12	0.92	1.01	0.92	0.94	0.92	0.91	0.78	0.8	0.81	0.74	0.75	0.75	0.74	0.76	0.77	S	0.82	0.82	0.82	0.91	0.9	1.01	1.03	0.74	1.12	0.87
Jul 16	0.9	0.97	0.97	0.93	0.93	0.9	0.98	0.9	0.82	0.8	0.84	0.82	0.67	0.7	0.72	S	0.72	0.72	0.66	0.67	0.72	0.78	1.41	1.58	0.66	1.58	0.87
Jul 17	1.49	1.33	1.45	1.7	1.7	1.33	0.98	0.76	0.76	0.76	0.69	0.69	0.69	0.67	S	0.69	0.68	0.71	0.77	0.76	0.83	0.87	0.89	0.9	0.67	1.70	0.96
Jul 18	0.92	0.79	0.88	1.03	1.22	0.89	0.84	0.84	0.81	0.82	0.82	0.79	0.73	S	0.73	0.76	0.75	0.75	0.76	0.75	0.81	0.8	0.75	0.78	0.73	1.22	0.83
Jul 19	0.77	0.75	0.69	0.74	0.77	0.7	0.69	0.66	0.63	0.64	0.56	0.6	S	0.7	0.69	0.67	0.73	0.79	0.76	0.7	0.75	0.86	1.07	1.34	0.56	1.34	0.75
Jul 20	0.92	1.04	1.07	0.83	0.85	0.86	0.87	0.91	0.91	0.85	0.83	S	0.81	0.74	0.71	0.68	0.69	0.67	0.66	0.69	0.8	0.79	0.82	0.84	0.66	1.07	0.82
Jul 21	1.13	1.12	1.2	1.31	1.21	1.08	1.02	0.81	0.79	0.75	S	0.68	0.76	0.82	0.82	0.73	0.7	0.7	0.64	0.7	0.66	0.92	0.93	1.08	0.64	1.31	0.89
Jul 22	0.97	1.36	**2.21**	2.02	1.96	1.99	1.99	1.09	0.84	S	0.72	0.68	0.66	0.68	0.68	0.67	0.67	0.64	0.62	0.62	0.67	0.79	0.99	1.35	0.62	**2.21**	**1.08**
Jul 23	1.17	1.3	1.06	1.44	0.96	0.76	0.74	0.69	S	0.62	0.62	0.58	0.56	0.59	0.55	0.59	0.62	0.6	0.68	0.73	0.65	0.75	0.75	0.73	0.55	1.44	0.77
Jul 24	0.75	0.98	1.14	0.71	0.75	0.72	0.66	S	0.67	0.62	0.62	0.6	0.57	0.62	0.61	0.57	0.58	0.55	0.67	0.73	0.73	0.7	0.76	0.71	0.55	1.14	0.70
Jul 25	0.76	0.76	0.77	0.89	1.1	1.31	S	1	0.91	0.78	0.64	0.55	0.64	0.66	0.57	0.56	0.57	0.57	0.61	0.62	0.83	0.99	0.98	1.18	0.55	1.31	0.79
Jul 26	1.49	1.77	1.42	2.01	1.93	S	1.76	1.12	0.99	0.82	0.79	0.76	0.76	0.77	0.73	N	N	N	N	N	N	N	N	N	0.73	2.01	-
Jul 27	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	-	-
Jul 28	N	N	N	N	N	N	N	N	N	S	0.59	0.61	0.57	0.49	0.53	0.49	0.47	0.51	0.49	0.61	0.57	0.59	0.58	0.6	0.47	0.61	-
Jul 29	0.59	0.61	S	0.62	0.6	0.59	NRM	NRM	0.66	0.65	0.52	0.5	0.49	0.45	0.45	0.44	0.4	0.48	0.4	0.52	0.5	0.52	0.53	0.51	0.40	0.66	0.53
Jul 30	0.47	S	0.51	0.49	0.48	0.5	0.48	0.48	0.47	0.47	0.46	0.48	0.46	0.46	0.45	0.43	0.48	0.47	0.42	0.49	0.51	0.64	0.76	0.89	0.42	0.89	0.51
Jul 31	S	1.52	1.31	1.1	1.03	1.54	1.28	0.98	0.75	0.7	0.68	0.65	0.64	0.63	0.63	0.63	0.64	0.63	0.68	0.74	0.78	0.78	0.87	S	0.63	1.54	0.87
Diurnal Maximum	1.49	1.77	2.21	2.02	1.96	1.99	1.99	1.12	1.03	1.02	0.93	0.92	0.96	0.94	0.93	0.90	0.91	0.87	0.96	0.82	1.03	1.00	1.41	1.58			
Diurnal Average	0.90	0.99	1.02	1.04	1.02	0.96	0.93	0.80	0.71	0.67	0.63	0.60	0.61	0.60	0.60	0.58	0.58	0.59	0.60	0.61	0.65	0.72	0.79	0.91			

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

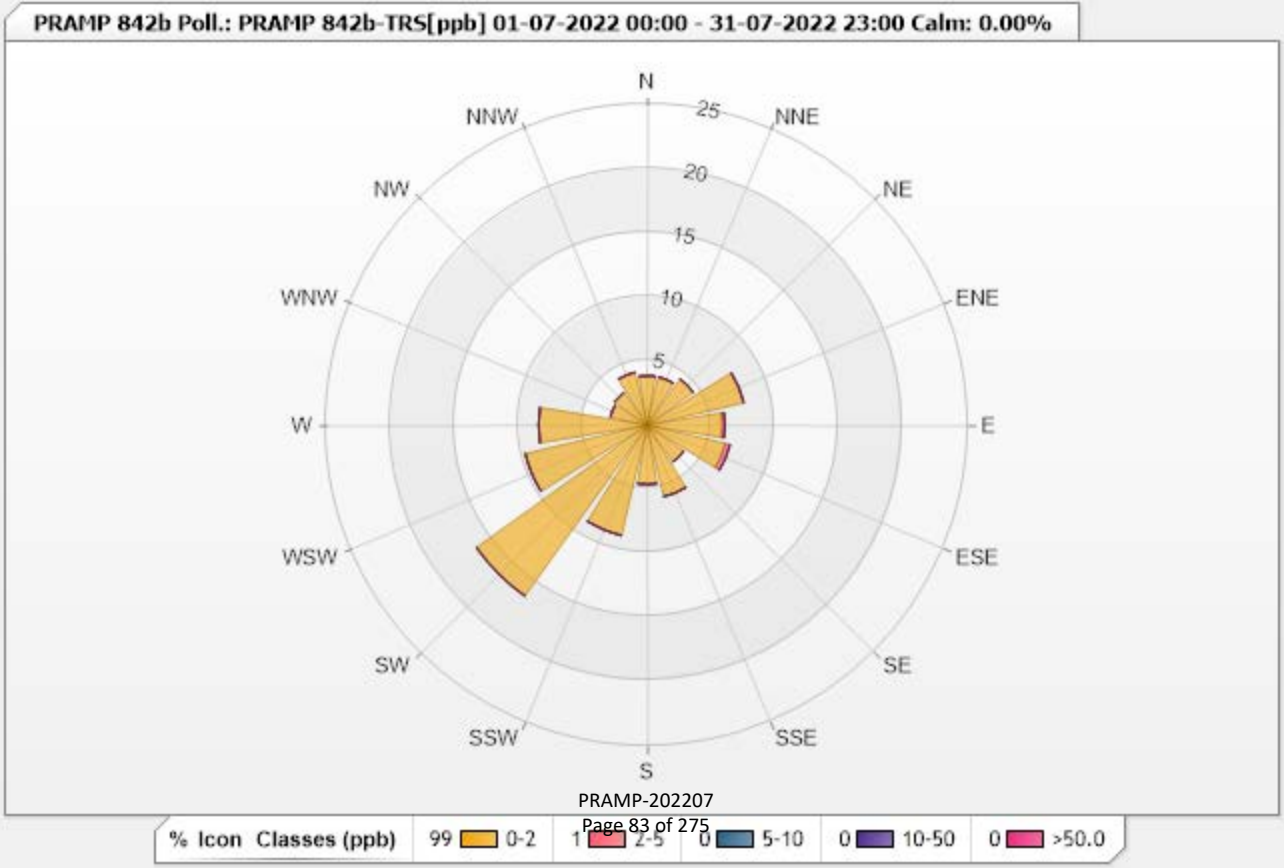




Classes	TRS
<=0	0.00%
0 - 1	86.03%
1 - 2	13.42%
2 - 3	0.55%
3 - 4	0.00%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-TRS[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 73.12% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	3.86	0	0	0	0	3.86
NNE	3.86	0	0	0	0	3.86
NE	4.41	0	0	0	0	4.41
ENE	7.72	0	0	0	0	7.72
E	5.88	0.18	0	0	0	6.06
ESE	6.25	0.37	0	0	0	6.62
SE	3.49	0	0	0	0	3.49
SSE	5.7	0	0	0	0	5.7
S	4.6	0	0	0	0	4.6
SSW	8.82	0	0	0	0	8.82
SW	16.36	0	0	0	0	16.36
WSW	9.74	0	0	0	0	9.74
W	8.46	0	0	0	0	8.46
WNW	2.94	0	0	0	0	2.94
NW	3.13	0	0	0	0	3.13
NNW	4.23	0	0	0	0	4.23
Summary	99.45	0.55	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-TRS[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (ppb)
99 0-2
1 2-5
0 5-10
0 10-50
0 >50.0

peace river area monitoring program
pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - July 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

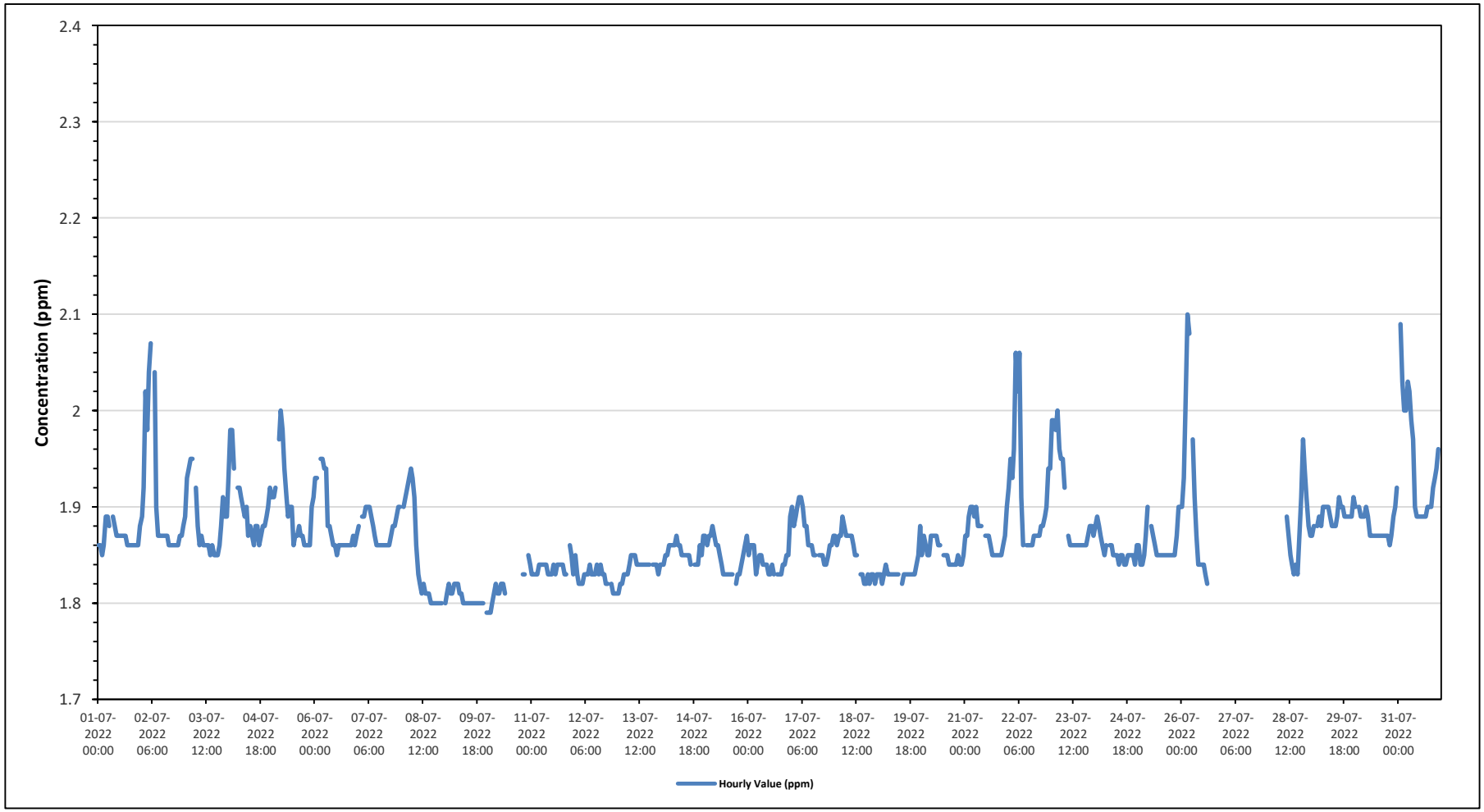
Maximum Hourly Value:	2.10	ppm	on July 26 at hour 3	Hours in Service:	744
Maximum Daily Value:	1.95	ppm	on July 31	Hours of Data:	661
Minimum Hourly Value:	1.79	ppm	on July 9 at hour 23	Hours of Missing Data:	42
Minimum Daily Value:	1.81	ppm	on July 9	Hours of Calibration:	41
Monthly Average:	1.87	ppm		Operational Uptime:	94.4

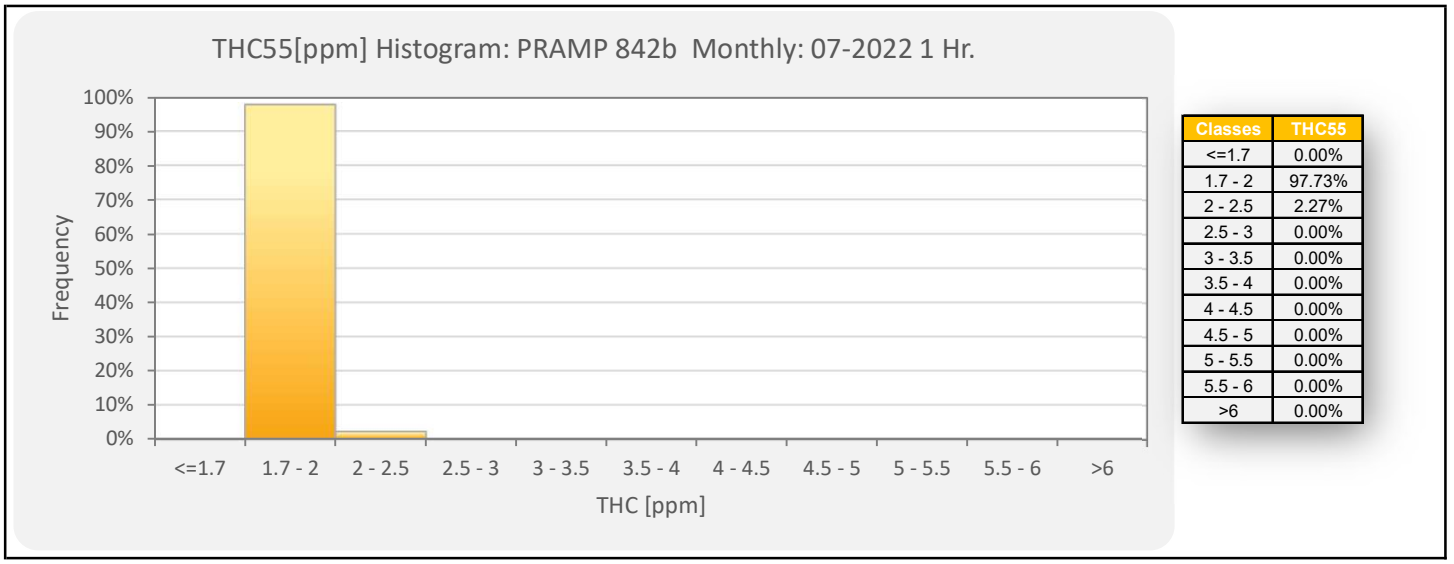
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	1.86	1.86	1.85	1.86	1.89	1.89	1.88	S	1.89	1.88	1.87	1.87	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.88	1.85	1.89	1.87
Jul 2	1.89	1.92	2.02	1.98	2.04	2.07	S	2.04	1.90	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	1.87	1.88	1.86	2.07	1.91
Jul 3	1.89	1.93	1.94	1.95	1.95	S	1.92	1.88	1.86	1.87	1.86	1.86	1.86	1.86	1.85	1.86	1.85	1.85	1.85	1.86	1.88	1.91	1.89	1.89	1.85	1.95	1.88
Jul 4	1.93	1.98	1.98	1.94	S	1.92	1.92	1.91	1.90	1.89	1.90	1.87	1.88	1.87	1.86	1.88	1.88	1.86	1.87	1.88	1.88	1.89	1.90	1.92	1.86	1.98	1.90
Jul 5	1.91	1.91	1.92	S	1.97	2.00	1.98	1.94	1.91	1.89	1.90	1.90	1.86	1.87	1.87	1.88	1.87	1.87	1.86	1.86	1.86	1.86	1.90	1.91	1.86	2.00	1.90
Jul 6	1.93	1.93	S	1.95	1.95	1.94	1.94	1.88	1.88	1.87	1.86	1.86	1.85	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.86	1.87	1.85	1.95	1.88
Jul 7	1.88	S	1.89	1.89	1.90	1.90	1.90	1.89	1.88	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.88	1.89	1.90	1.90	1.86	1.90	1.88
Jul 8	S	1.90	1.91	1.92	1.93	1.94	1.93	1.91	1.86	1.83	1.82	1.81	1.82	1.81	1.81	1.81	1.80	1.80	1.80	1.80	1.80	1.80	1.80	S	1.80	1.94	1.85
Jul 9	1.80	1.81	1.82	1.81	1.81	1.82	1.82	1.82	1.81	1.81	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	S	1.79	**1.79**	1.82	1.81
Jul 10	1.79	1.79	1.80	1.81	1.82	1.81	1.81	1.82	1.82	1.81	C	C	C	C	C	C	C	C	C	1.83	1.83	S	1.85	1.84	**1.79**	1.85	-
Jul 11	1.83	1.83	1.83	1.83	1.84	1.84	1.84	1.84	1.84	1.83	1.83	1.83	1.84	1.83	1.84	1.84	1.84	1.84	1.83	1.83	S	1.86	1.85	1.83	1.83	1.86	1.84
Jul 12	1.85	1.83	1.82	1.82	1.82	1.83	1.83	1.83	1.84	1.83	1.83	1.83	1.84	1.83	1.84	1.83	1.83	1.82	1.82	S	1.82	1.81	1.81	1.81	1.81	1.85	1.83
Jul 13	1.81	1.82	1.82	1.83	1.83	1.83	1.84	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	S	1.84	1.84	1.84	1.83	1.84	1.81	1.85	1.84
Jul 14	1.84	1.84	1.85	1.85	1.86	1.86	1.86	1.86	1.87	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.84	S	1.84	1.84	1.84	1.86	1.85	1.87	1.84	1.87	1.85
Jul 15	1.87	1.86	1.87	1.87	1.88	1.87	1.86	1.86	1.85	1.84	1.83	1.83	1.83	1.83	1.83	1.83	S	1.82	1.83	1.83	1.84	1.85	1.86	1.87	1.82	1.88	1.85
Jul 16	1.85	1.86	1.86	1.86	1.83	1.84	1.85	1.85	1.84	1.84	1.84	1.83	1.83	1.84	1.83	S	1.83	1.83	1.83	1.84	1.84	1.85	1.85	1.89	1.83	1.89	1.84
Jul 17	1.90	1.88	1.89	1.90	1.91	1.91	1.90	1.88	1.88	1.86	1.86	1.86	1.85	1.85	S	1.85	1.85	1.85	1.84	1.84	1.85	1.86	1.86	1.87	1.84	1.91	1.87
Jul 18	1.87	1.86	1.87	1.87	1.89	1.88	1.87	1.87	1.87	1.87	1.86	1.85	1.85	S	1.83	1.83	1.82	1.82	1.83	1.82	1.83	1.83	1.82	1.83	1.82	1.89	1.85
Jul 19	1.83	1.83	1.82	1.83	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.83	S	1.82	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.84	1.85	1.88	1.82	1.88	1.83
Jul 20	1.85	1.87	1.86	1.85	1.85	1.87	1.87	1.87	1.87	1.86	1.86	S	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.85	1.84	1.84	1.85	1.84	1.87	1.85
Jul 21	1.87	1.87	1.89	1.90	1.90	1.89	1.90	1.88	1.88	1.88	S	1.87	1.87	1.87	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.87	1.90	1.85	1.90	1.87
Jul 22	1.92	1.95	1.93	1.96	2.06	2.02	2.06	1.91	1.86	S	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.88	1.88	1.89	1.90	1.94	1.94	1.86	2.06	1.91
Jul 23	1.99	1.99	1.98	2.00	1.96	1.95	1.95	1.92	S	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.88	1.87	1.86	2.00	1.90
Jul 24	1.88	1.89	1.88	1.87	1.86	1.85	1.86	S	1.86	1.86	1.85	1.85	1.85	1.84	1.85	1.85	1.84	1.84	1.85	1.85	1.85	1.85	1.84	1.86	1.84	1.89	1.86
Jul 25	1.86	1.84	1.84	1.85	1.87	1.90	S	1.88	1.87	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.87	1.90	1.90	1.84	1.90	1.86
Jul 26	1.90	1.93	2.00	**2.10**	2.08	S	1.97	1.91	1.87	1.84	1.84	1.84	1.84	1.83	1.82	N	N	N	N	N	N	N	N	N	1.82	**2.10**	-
Jul 27	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	-	-
Jul 28	N	N	N	N	N	N	N	N	N	S	1.89	1.87	1.85	1.84	1.83	1.84	1.83	1.87	1.91	1.97	1.94	1.91	1.88	1.87	1.83	1.97	-
Jul 29	1.87	1.88	S	1.88	1.89	1.88	1.90	1.90	1.90	1.90	1.89	1.88	1.88	1.88	1.89	1.91	1.90	1.90	1.89	1.89	1.89	1.89	1.89	1.91	1.87	1.91	1.89
Jul 30	1.90	S	1.90	1.89	1.89	1.89	1.90	1.89	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86	1.87	1.89	1.90	1.92	1.86	1.92	1.88
Jul 31	S	2.09	2.03	2.00	2.00	2.03	2.02	1.99	1.97	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.90	1.92	1.93	1.94	1.96	S	1.89	2.09	**1.95**
Diurnal Maximum	1.99	2.09	2.03	2.10	2.08	2.07	2.06	2.04	1.97	1.90	1.90	1.90	1.89	1.89	1.89	1.91	1.90	1.90	1.91	1.97	1.94	1.94	1.96	1.94			
Diurnal Average	1.87	1.89	1.89	1.90	1.90	1.90	1.90	1.89	1.87	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.86	1.87	1.87			

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

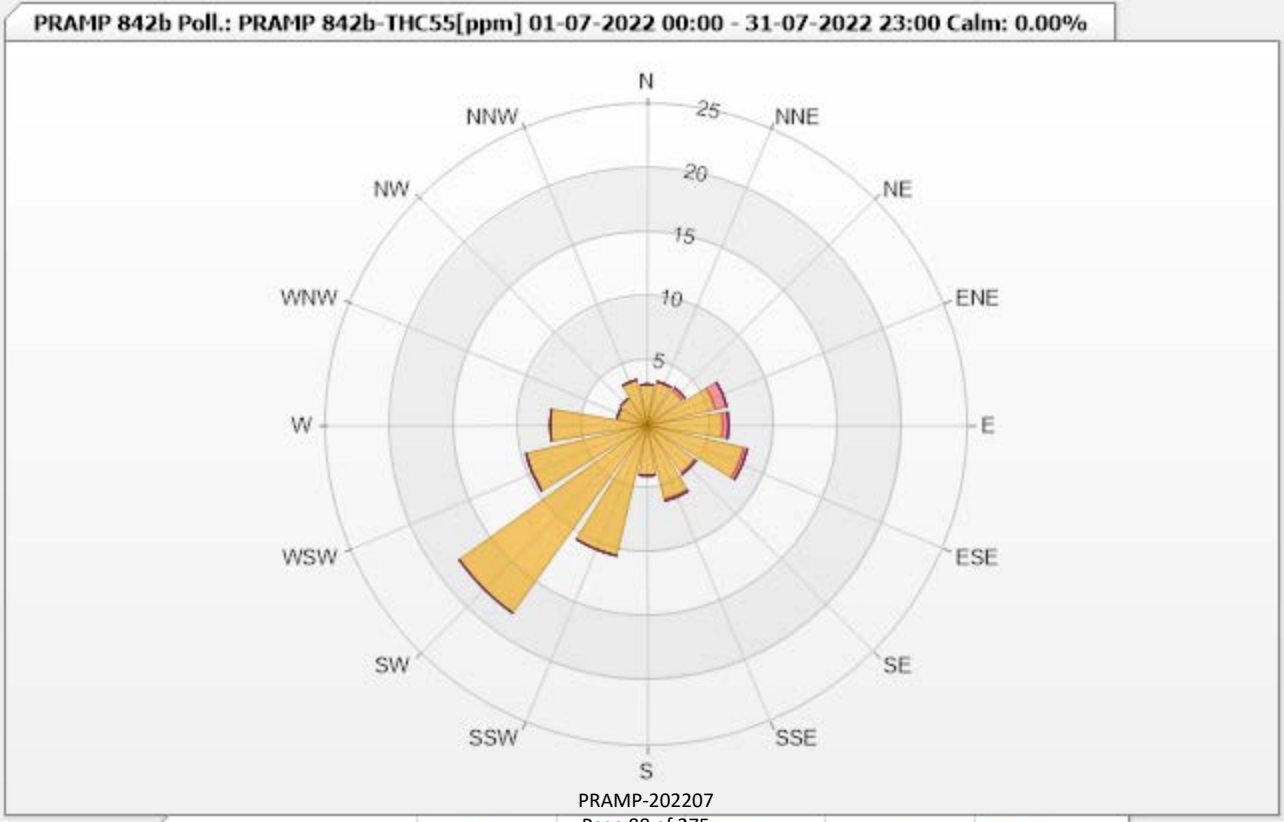




Classes	THC55
<=1.7	0.00%
1.7 - 2	97.73%
2 - 2.5	2.27%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-THC55[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.84% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	3.18	0	0	0	0	3.18
NNE	3.48	0	0	0	0	3.48
NE	3.33	0.3	0	0	0	3.63
ENE	5.45	0.91	0	0	0	6.36
E	5.9	0.45	0	0	0	6.35
ESE	7.72	0.3	0	0	0	8.02
SE	4.54	0.15	0	0	0	4.69
SSE	5.9	0.15	0	0	0	6.05
S	3.93	0	0	0	0	3.93
SSW	10.44	0	0	0	0	10.44
SW	18	0	0	0	0	18
WSW	9.68	0	0	0	0	9.68
W	7.56	0	0	0	0	7.56
WNW	2.42	0	0	0	0	2.42
NW	2.57	0	0	0	0	2.57
NNW	3.63	0	0	0	0	3.63
Summary	97.73	2.26	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-THC55[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (ppm)
98 0-2
2 2-5
0 5-10
0 10-40
0 >40.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - July 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

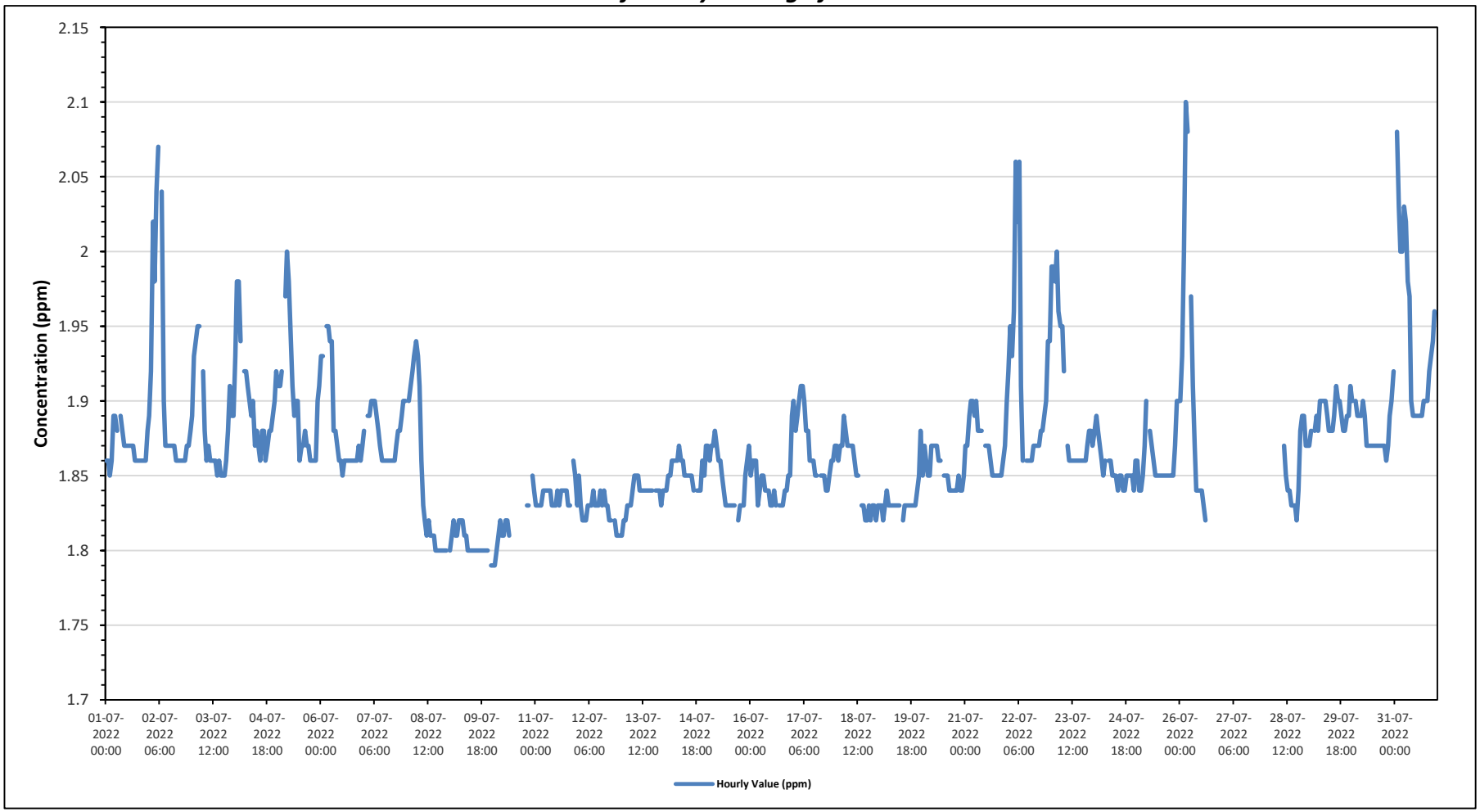
Maximum Hourly Value:	2.10	ppm	on July 26 at hour 3	Hours in Service:	744
Maximum Daily Value:	1.95	ppm	on July 31	Hours of Data:	661
Minimum Hourly Value:	1.79	ppm	on July 9 at hour 23	Hours of Missing Data:	42
Minimum Daily Value:	1.81	ppm	on July 9	Hours of Calibration:	41
Monthly Average:	1.87	ppm		Operational Uptime:	94.4

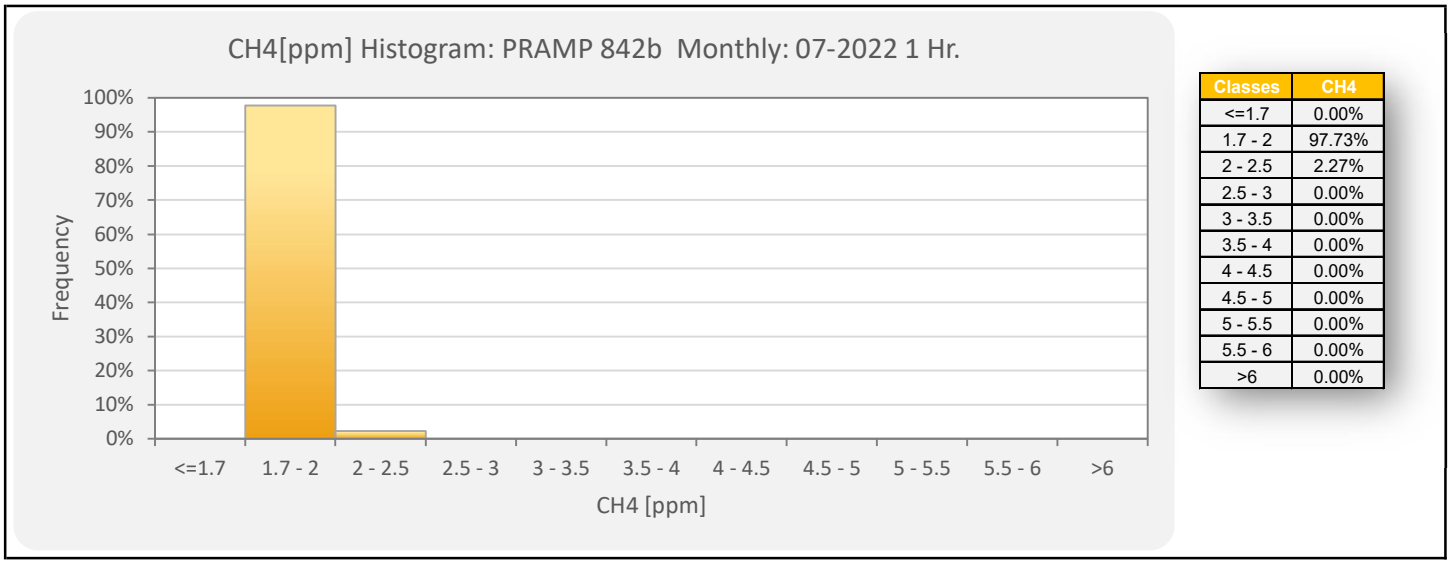
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	1.86	1.86	1.85	1.86	1.89	1.89	1.88	S	1.89	1.88	1.87	1.87	1.87	1.87	1.87	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.88	1.85	1.89	1.87
Jul 2	1.89	1.92	2.02	1.98	2.04	2.07	S	2.04	1.90	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	1.87	1.88	1.86	2.07	1.91
Jul 3	1.89	1.93	1.94	1.95	1.95	S	1.92	1.88	1.86	1.87	1.86	1.86	1.86	1.86	1.85	1.86	1.85	1.85	1.85	1.86	1.88	1.91	1.89	1.89	1.85	1.95	1.88
Jul 4	1.93	1.98	1.98	1.94	S	1.92	1.92	1.91	1.90	1.89	1.90	1.87	1.88	1.87	1.86	1.88	1.88	1.86	1.87	1.88	1.88	1.89	1.90	1.92	1.86	1.98	1.90
Jul 5	1.91	1.91	1.92	S	1.97	2.00	1.98	1.94	1.91	1.89	1.90	1.90	1.86	1.87	1.87	1.88	1.87	1.87	1.86	1.86	1.86	1.86	1.90	1.91	1.86	2.00	1.90
Jul 6	1.93	1.93	S	1.95	1.95	1.94	1.94	1.88	1.88	1.87	1.86	1.86	1.85	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.86	1.87	1.85	1.95	1.88
Jul 7	1.88	S	1.89	1.89	1.90	1.90	1.90	1.89	1.88	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.88	1.89	1.90	1.90	1.86	1.90	1.88
Jul 8	S	1.90	1.91	1.92	1.93	1.94	1.93	1.91	1.86	1.83	1.82	1.81	1.82	1.81	1.81	1.81	1.80	1.80	1.80	1.80	1.80	1.80	1.80	S	1.80	1.94	1.85
Jul 9	1.80	1.81	1.82	1.81	1.81	1.82	1.82	1.82	1.81	1.81	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	S	1.79	**1.79**	1.82	1.81
Jul 10	1.79	1.79	1.80	1.81	1.82	1.81	1.81	1.82	1.82	1.81	C	C	C	C	C	C	C	C	C	1.83	1.83	S	1.85	1.84	**1.79**	1.85	-
Jul 11	1.83	1.83	1.83	1.83	1.84	1.84	1.84	1.84	1.84	1.83	1.83	1.83	1.84	1.83	1.84	1.84	1.84	1.84	1.83	1.83	S	1.86	1.85	1.83	1.83	1.86	1.84
Jul 12	1.85	1.83	1.82	1.82	1.82	1.83	1.83	1.83	1.84	1.83	1.83	1.83	1.84	1.83	1.84	1.83	1.83	1.82	1.82	S	1.82	1.81	1.81	1.81	1.81	1.85	1.83
Jul 13	1.81	1.82	1.82	1.83	1.83	1.83	1.84	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	S	1.84	1.84	1.84	1.83	1.84	1.81	1.85	1.84
Jul 14	1.84	1.84	1.85	1.85	1.86	1.86	1.86	1.86	1.87	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.84	S	1.84	1.84	1.84	1.86	1.85	1.87	1.84	1.87	1.85
Jul 15	1.87	1.86	1.87	1.87	1.88	1.87	1.86	1.86	1.85	1.84	1.83	1.83	1.83	1.83	1.83	1.83	S	1.82	1.83	1.83	1.83	1.85	1.86	1.87	1.82	1.88	1.85
Jul 16	1.85	1.86	1.86	1.86	1.83	1.84	1.85	1.85	1.84	1.84	1.84	1.83	1.83	1.84	1.83	S	1.83	1.83	1.83	1.84	1.84	1.85	1.85	1.89	1.83	1.89	1.84
Jul 17	1.90	1.88	1.89	1.90	1.91	1.91	1.90	1.88	1.88	1.86	1.86	1.86	1.85	1.85	S	1.85	1.85	1.85	1.84	1.84	1.85	1.86	1.86	1.87	1.84	1.91	1.87
Jul 18	1.87	1.86	1.87	1.87	1.89	1.88	1.87	1.87	1.87	1.87	1.86	1.85	1.85	S	1.83	1.83	1.82	1.82	1.83	1.82	1.83	1.83	1.82	1.83	1.82	1.89	1.85
Jul 19	1.83	1.83	1.82	1.83	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.83	S	1.82	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.84	1.85	1.88	1.82	1.88	1.83
Jul 20	1.85	1.87	1.86	1.85	1.85	1.87	1.87	1.87	1.87	1.86	1.86	S	1.85	1.85	1.85	1.84	1.84	1.84	1.84	1.84	1.85	1.84	1.84	1.85	1.84	1.87	1.85
Jul 21	1.87	1.87	1.89	1.90	1.90	1.89	1.90	1.88	1.88	1.88	S	1.87	1.87	1.87	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.87	1.90	1.85	1.90	1.87
Jul 22	1.92	1.95	1.93	1.96	2.06	2.02	2.06	1.91	1.86	S	1.86	1.86	1.86	1.86	1.87	1.87	1.87	1.87	1.88	1.88	1.89	1.90	1.94	1.94	1.86	2.06	1.91
Jul 23	1.99	1.99	1.98	2.00	1.96	1.95	1.95	1.92	S	1.87	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.87	1.88	1.88	1.87	1.86	2.00	1.90
Jul 24	1.88	1.89	1.88	1.87	1.86	1.85	1.86	S	1.86	1.86	1.85	1.85	1.85	1.84	1.85	1.85	1.84	1.84	1.85	1.85	1.85	1.85	1.84	1.86	1.84	1.89	1.86
Jul 25	1.86	1.84	1.84	1.85	1.87	1.90	S	1.88	1.87	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.87	1.90	1.90	1.84	1.90	1.86
Jul 26	1.90	1.93	2.00	**2.10**	2.08	S	1.97	1.91	1.87	1.84	1.84	1.84	1.84	1.83	1.82	N	N	N	N	N	N	N	N	N	1.82	**2.10**	-
Jul 27	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	-	-
Jul 28	N	N	N	N	N	N	N	N	N	S	1.87	1.85	1.84	1.84	1.83	1.83	1.83	1.82	1.84	1.88	1.89	1.89	1.87	1.87	1.82	1.89	-
Jul 29	1.87	1.88	S	1.88	1.89	1.88	1.90	1.90	1.90	1.90	1.89	1.88	1.88	1.88	1.89	1.91	1.90	1.90	1.89	1.88	1.88	1.89	1.89	1.91	1.87	1.91	1.89
Jul 30	1.90	S	1.90	1.89	1.89	1.89	1.90	1.89	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.86	1.87	1.89	1.90	1.92	1.86	1.92	1.88
Jul 31	S	2.08	2.03	2.00	2.00	2.03	2.02	1.98	1.97	1.90	1.89	1.89	1.89	1.89	1.89	1.89	1.90	1.90	1.90	1.92	1.93	1.94	1.96	S	1.89	2.08	**1.95**
Diurnal Maximum	1.99	2.08	2.03	2.10	2.08	2.07	2.06	2.04	1.97	1.90	1.90	1.90	1.89	1.89	1.89	1.91	1.90	1.90	1.90	1.92	1.93	1.94	1.96	1.94			
Diurnal Average	1.87	1.89	1.89	1.90	1.90	1.90	1.90	1.89	1.87	1.86	1.86	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.86	1.87	1.87			

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

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

Timeseries Chart of Hourly Average for CH4 - 842b Station



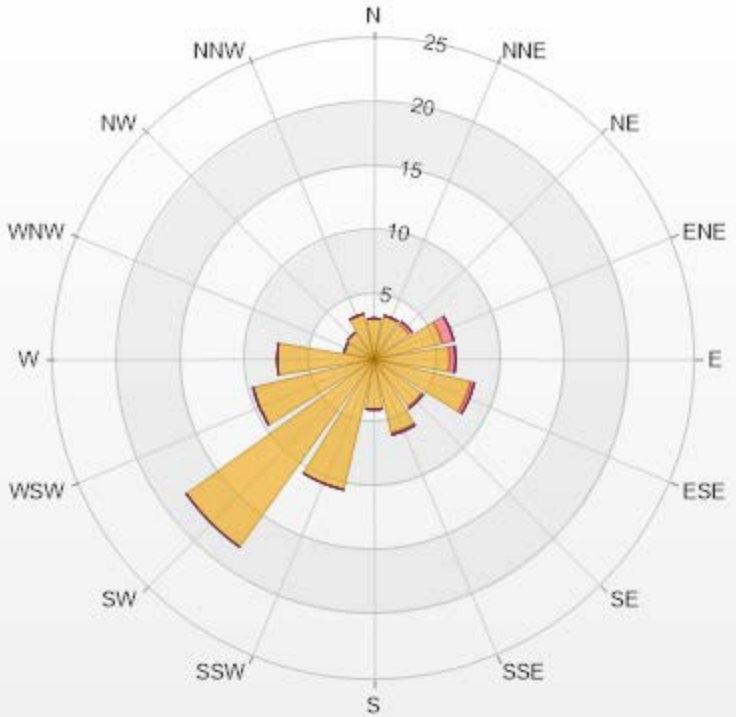


Classes	CH4
<=1.7	0.00%
1.7 - 2	97.73%
2 - 2.5	2.27%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-CH4[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.84% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	3.18	0	0	0	0	3.18
NNE	3.48	0	0	0	0	3.48
NE	3.33	0.3	0	0	0	3.63
ENE	5.45	0.91	0	0	0	6.36
E	5.9	0.45	0	0	0	6.35
ESE	7.72	0.3	0	0	0	8.02
SE	4.54	0.15	0	0	0	4.69
SSE	5.9	0.15	0	0	0	6.05
S	3.93	0	0	0	0	3.93
SSW	10.44	0	0	0	0	10.44
SW	18	0	0	0	0	18
WSW	9.68	0	0	0	0	9.68
W	7.56	0	0	0	0	7.56
WNW	2.42	0	0	0	0	2.42
NW	2.57	0	0	0	0	2.57
NNW	3.63	0	0	0	0	3.63
Summary	97.73	2.26	0	0	0	100

PRAMP 842b Poll.: PRAMP 842b-CH4[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%



% Icon Classes (ppm)	98 0-2	2 2-5	0 5-10	0 10-20	0 >20.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

842b Station - July 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

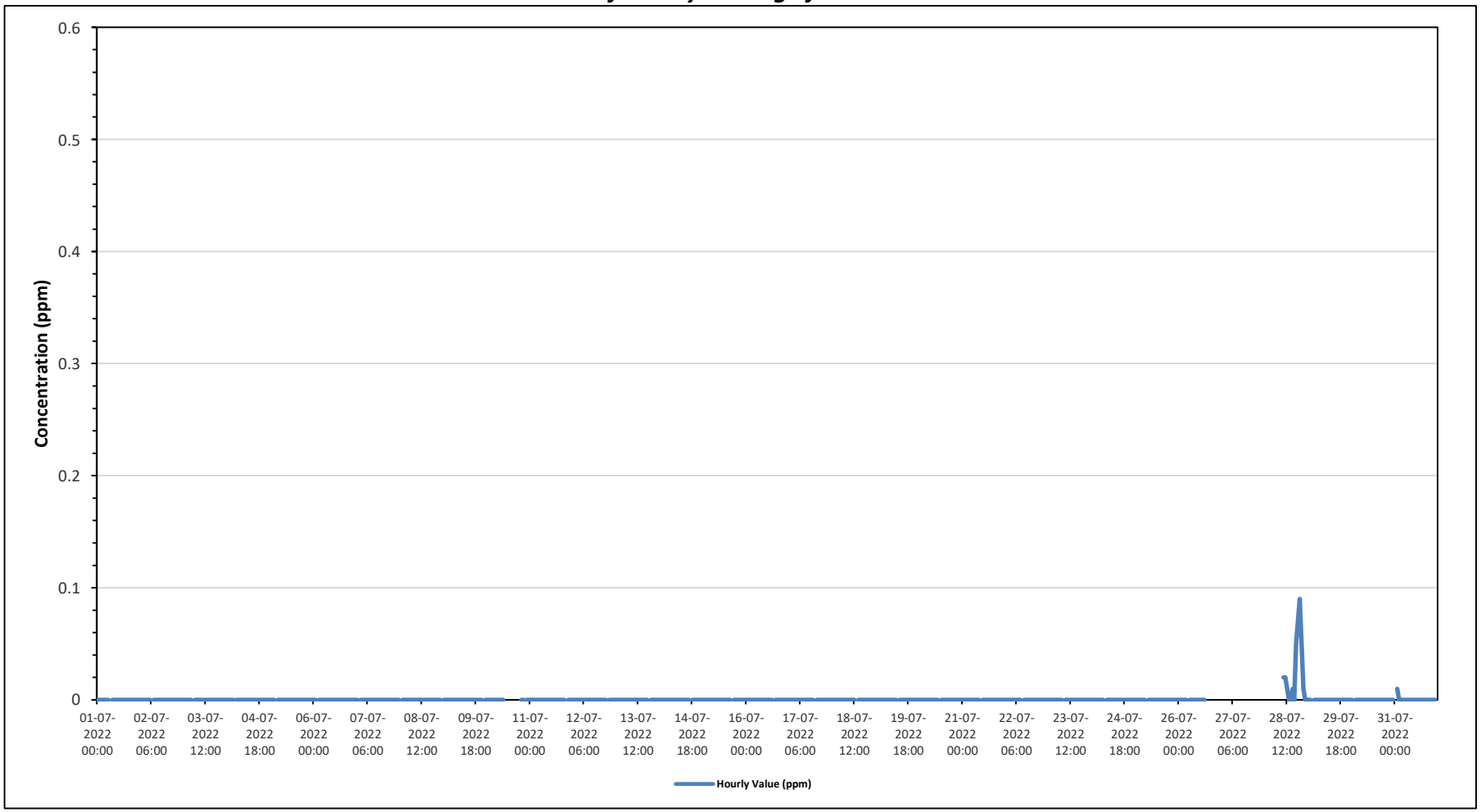
Maximum Hourly Value:	0.09	ppm	on July 28 at hour 19	Hours in Service:	744
Maximum Daily Value:	0.00	ppm	on July 31	Hours of Data:	661
Minimum Hourly Value:	0.00	ppm	on July 1 at hour 0	Hours of Missing Data:	42
Minimum Daily Value:	0.00	ppm	on July 1	Hours of Calibration:	41
Monthly Average:	0.00	ppm		Operational Uptime:	94.4

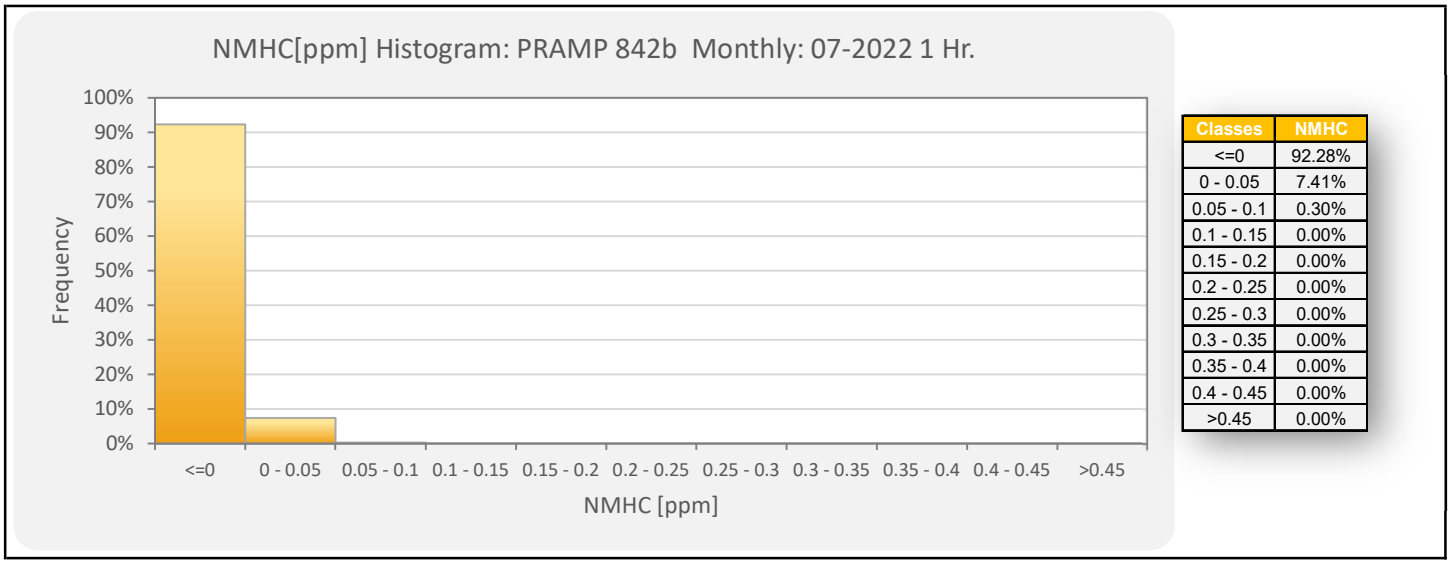
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00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

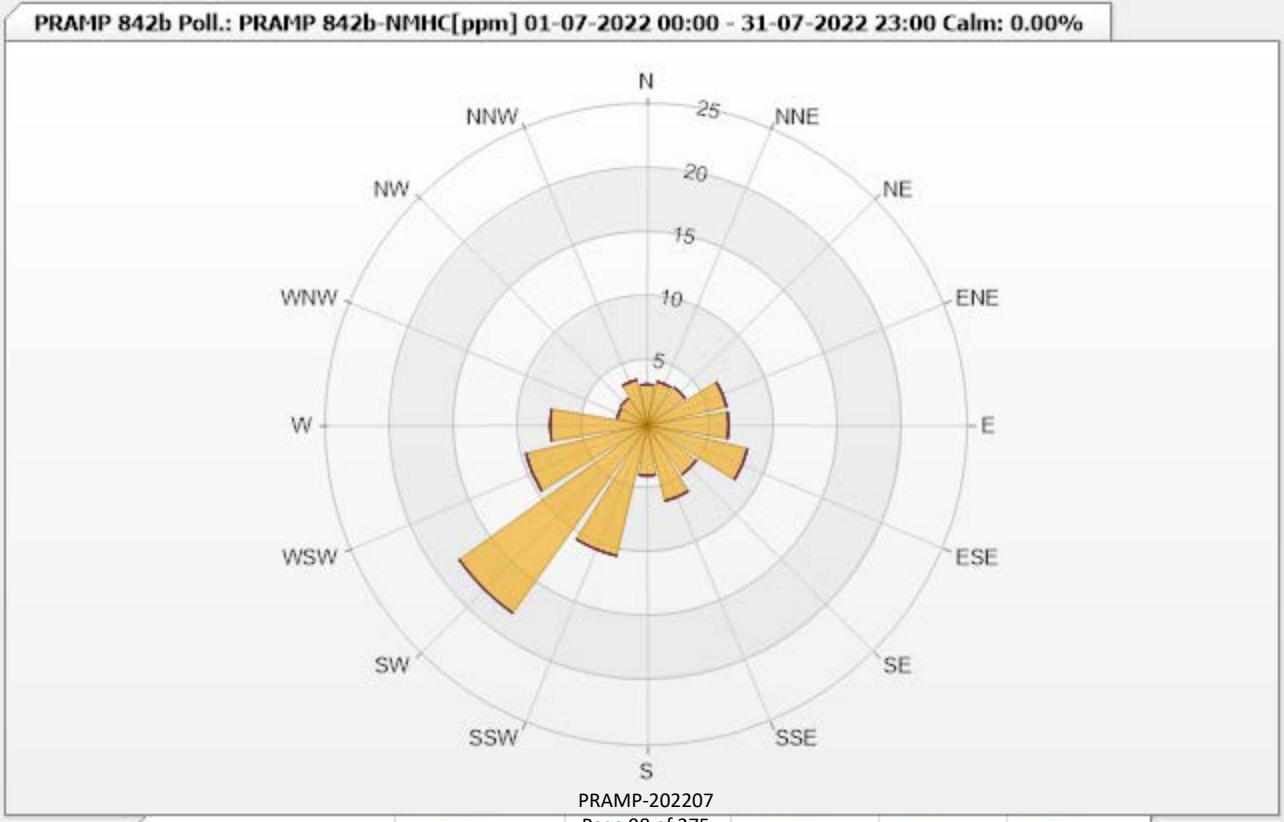




Classes	NMHC
<=0	92.28%
0 - 0.05	7.41%
0.05 - 0.1	0.30%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP 842b Poll.: PRAMP 842b-NMHC[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.84% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	3.18	0	0	0	0	3.18
NNE	3.48	0	0	0	0	3.48
NE	3.63	0	0	0	0	3.63
ENE	6.35	0	0	0	0	6.35
E	6.35	0	0	0	0	6.35
ESE	8.02	0	0	0	0	8.02
SE	4.69	0	0	0	0	4.69
SSE	6.05	0	0	0	0	6.05
S	3.93	0	0	0	0	3.93
SSW	10.44	0	0	0	0	10.44
SW	18	0	0	0	0	18
WSW	9.68	0	0	0	0	9.68
W	7.56	0	0	0	0	7.56
WNW	2.42	0	0	0	0	2.42
NW	2.57	0	0	0	0	2.57
NNW	3.63	0	0	0	0	3.63
Summary	100	0	0	0	0	100


PRAMP 842b Poll.: PRAMP 842b-NMHC[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
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 - July 2022

Summary of Hourly Averages

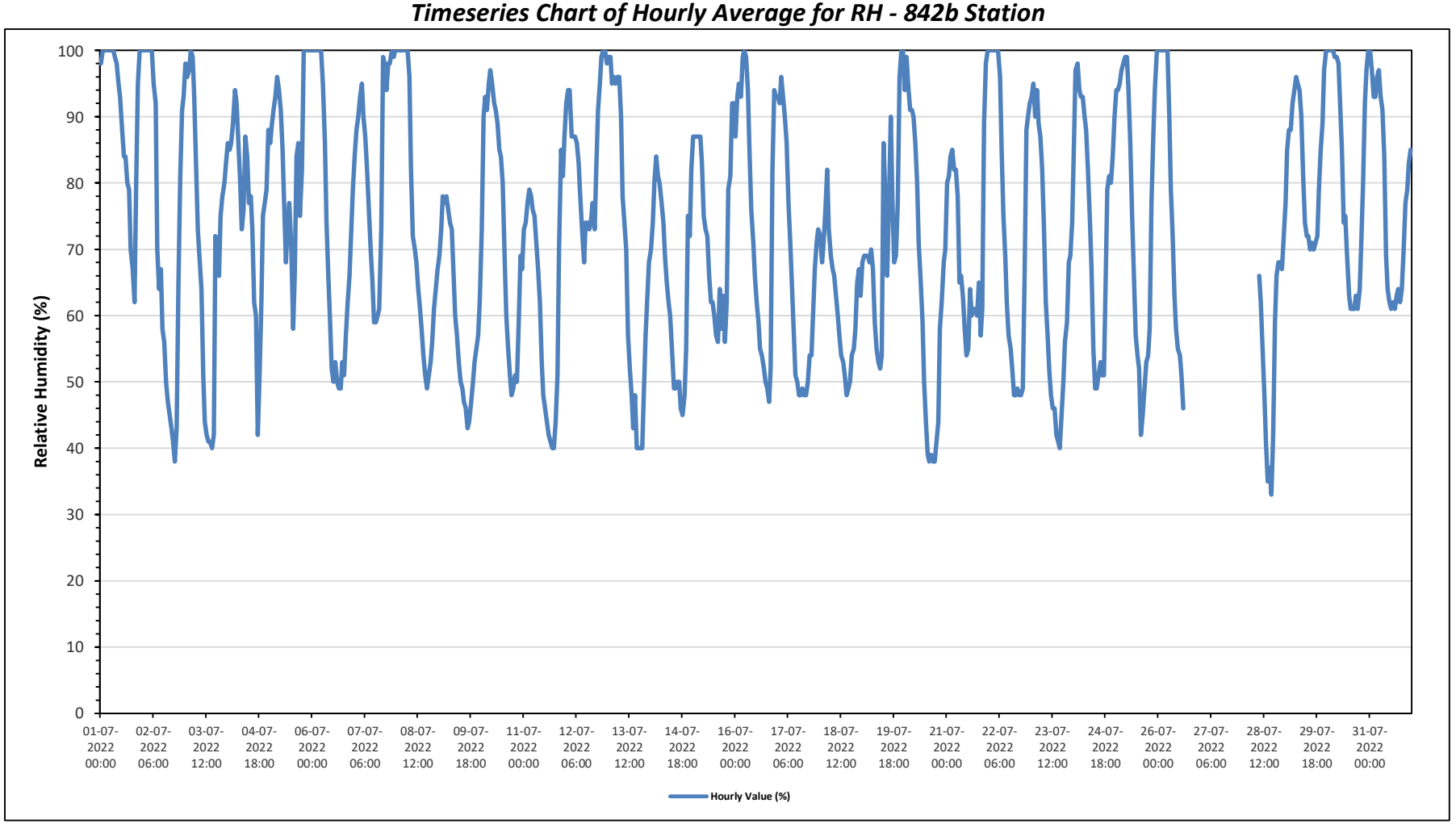
RELATIVE HUMIDITY (RH) in %

Maximum Hourly Value:	100	%	on July 1 at hour 1	Hours in Service:	744
Maximum Daily Value:	90.5	%	on July 1	Hours of Data:	702
Minimum Hourly Value:	33	%	on July 28 at hour 16	Hours of Missing Data:	42
Minimum Daily Value:	59.9	%	on July 9	Hours of Calibration:	0
Monthly Average:	73.2	%		Operational Uptime:	94.4

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	98	**100**	**100**	**100**	**100**	**100**	**100**	**100**	99	98	95	93	88	84	84	80	79	70	67	62	79	95	**100**	**100**	62	**100**	**90.5**
Jul 2	**100**	**100**	**100**	**100**	**100**	**100**	95	92	70	64	67	58	56	50	47	45	43	41	38	43	65	81	91	93	38	**100**	72.5
Jul 3	98	96	97	**100**	99	93	83	73	69	64	51	44	42	41	41	40	42	72	68	66	75	78	80	83	40	**100**	70.6
Jul 4	86	85	86	89	94	92	86	80	73	76	87	84	77	78	73	62	60	42	51	62	75	77	79	88	42	94	76.8
Jul 5	86	89	91	93	96	94	91	85	77	68	74	77	70	58	66	84	86	75	82	**100**	**100**	**100**	**100**	**100**	58	**100**	85.1
Jul 6	**100**	**100**	**100**	**100**	**100**	**100**	95	86	74	66	59	52	50	53	50	49	49	53	51	57	62	66	73	79	49	**100**	71.8
Jul 7	84	88	90	93	95	90	87	82	76	70	65	59	59	60	61	73	99	98	94	98	98	**100**	99	**100**	59	**100**	84.1
Jul 8	**100**	**100**	**100**	**100**	**100**	**100**	**100**	96	82	72	70	68	64	61	58	54	51	49	51	53	56	61	64	67	49	**100**	74.0
Jul 9	69	73	78	77	78	76	74	73	67	60	57	53	50	49	47	46	43	44	47	50	53	55	57	62	43	78	59.9
Jul 10	73	90	93	91	95	97	95	92	91	89	85	84	80	68	60	55	51	48	49	51	50	59	69	67	48	97	74.3
Jul 11	73	74	77	79	78	76	75	71	67	62	53	48	46	44	42	41	40	40	44	51	70	85	81	87	40	87	62.7
Jul 12	92	94	94	87	87	87	86	83	78	73	68	74	74	73	74	77	73	82	91	95	99	**100**	**100**	98	68	**100**	85.0
Jul 13	99	99	95	96	95	96	96	90	78	74	70	57	52	48	43	48	40	40	40	40	48	57	63	68	40	99	68.0
Jul 14	70	74	80	84	81	80	77	74	69	65	62	60	55	49	49	50	50	46	45	48	55	75	72	82	45	84	64.7
Jul 15	87	87	87	87	87	83	75	73	72	66	62	62	60	57	56	64	58	63	56	62	79	81	92	92	56	92	72.8
Jul 16	87	93	95	93	99	**100**	99	94	85	76	71	66	62	59	55	54	52	50	49	47	52	82	94	93	47	**100**	75.3
Jul 17	93	92	96	93	90	86	77	71	65	58	51	50	48	48	49	48	48	50	54	54	60	67	71	73	48	96	66.3
Jul 18	72	68	71	76	82	73	69	67	66	63	60	57	54	53	51	48	49	50	54	55	58	65	67	63	48	82	62.1
Jul 19	68	69	69	69	68	70	67	59	55	53	52	54	86	78	66	77	90	78	68	69	77	96	**100**	**100**	52	**100**	72.4
Jul 20	94	99	95	91	91	90	86	80	71	65	59	50	44	39	38	39	38	38	41	44	58	62	68	70	38	99	64.6
Jul 21	80	81	84	85	82	82	78	65	66	63	58	54	55	64	60	61	61	60	65	57	61	89	98	**100**	54	**100**	71.2
Jul 22	**100**	**100**	**100**	**100**	**100**	**100**	96	85	75	69	62	57	55	52	48	48	49	48	48	49	66	88	90	92	48	**100**	74.0
Jul 23	93	95	90	94	89	87	82	73	62	57	52	48	46	46	42	41	40	45	50	56	59	68	69	74	40	95	64.9
Jul 24	86	97	98	94	93	93	90	88	82	74	67	55	49	49	51	53	51	51	66	79	81	80	84	90	49	98	75.0
Jul 25	94	94	95	97	98	99	99	94	86	75	66	57	54	52	42	45	49	53	54	58	77	87	94	**100**	42	**100**	75.8
Jul 26	**100**	**100**	**100**	**100**	**100**	**100**	90	79	72	63	58	55	54	51	46	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	46	**100**	-
Jul 27	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	-	-	-
Jul 28	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	66	62	55	48	41	35	37	**33**	42	59	66	68	68	67	72	**33**	72	-
Jul 29	77	85	88	88	92	94	96	95	94	90	81	74	72	72	70	71	70	71	72	79	85	89	97	**100**	70	**100**	83.4
Jul 30	**100**	**100**	**100**	**100**	99	99	98	92	85	74	75	69	63	61	61	61	63	61	64	71	80	92	97	**100**	61	**100**	81.9
Jul 31	**100**	97	93	93	96	97	93	91	84	69	64	62	61	62	61	63	64	62	64	70	77	79	83	85	61	**100**	77.9
Diurnal Maximum	100	100	100	100	100	100	100	100	99	98	95	93	88	84	84	84	99	98	94	100	100	100	100	100			
Diurnal Average	88.2	90.3	91.1	91.3	91.9	90.8	87.4	82.2	75.5	69.4	65.4	61.2	59.1	56.7	54.2	55.7	55.9	55.9	58.0	61.8	69.8	78.7	82.7	85.4			

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

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


Timeseries Chart of Hourly Average for RH - 842b Station
Relative Humidity (%)
100
90
80
70
60
50
40
30
20
10
0
01-07-2022 00:00
02-07-2022 06:00
03-07-2022 12:00
04-07-2022 18:00
06-07-2022 00:00
07-07-2022 06:00
08-07-2022 12:00
09-07-2022 18:00
11-07-2022 00:00
12-07-2022 06:00
13-07-2022 12:00
14-07-2022 18:00
16-07-2022 00:00
17-07-2022 06:00
18-07-2022 12:00
19-07-2022 18:00
21-07-2022 00:00
22-07-2022 06:00
23-07-2022 12:00
24-07-2022 18:00
26-07-2022 00:00
27-07-2022 06:00
28-07-2022 12:00
29-07-2022 18:00
31-07-2022 00:00
Hourly Value (%)

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PEACE RIVER AREA MONITORING PROGRAM

842b Station - July 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

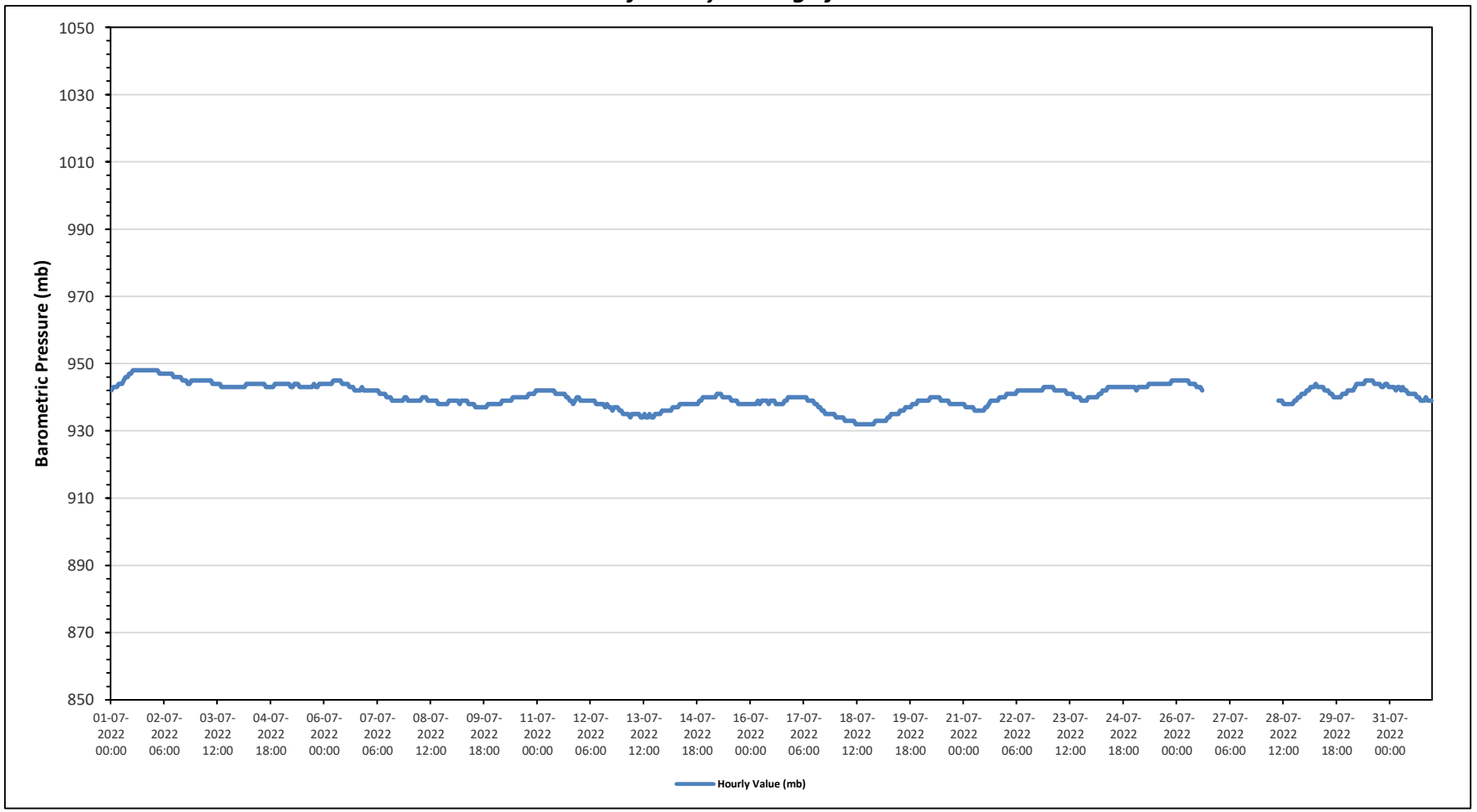
Maximum Hourly Value:	948	mb	on July 1 at hour 12	Hours in Service:	744
Maximum Daily Value:	946	mb	on July 1	Hours of Data:	702
Minimum Hourly Value:	932	mb	on July 18 at hour 11	Hours of Missing Data:	42
Minimum Daily Value:	933	mb	on July 18	Hours of Calibration:	0
Monthly Average:	940	mb		Operational Uptime:	94.4

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	942	943	943	943	944	944	944	945	946	946	947	947	**948**	**948**	**948**	**948**	**948**	**948**	**948**	**948**	**948**	**948**	**948**	**948**	942	**948**	**946.3**
Jul 2	**948**	**948**	**948**	947	947	947	947	947	947	947	947	946	946	946	946	946	945	945	945	944	944	945	945	945	944	**948**	946.2
Jul 3	945	945	945	945	945	945	945	945	945	944	944	944	944	944	943	943	943	943	943	943	943	943	943	943	943	945	944.0
Jul 4	943	943	943	943	944	944	944	944	944	944	944	944	944	944	944	943	943	943	943	943	944	944	944	944	943	944	943.6
Jul 5	944	944	944	944	944	943	943	944	944	944	943	943	943	943	943	943	943	943	944	943	943	944	944	944	943	944	943.5
Jul 6	944	944	944	944	944	945	945	945	945	945	944	944	944	944	943	943	943	942	942	942	942	943	942	942	942	945	943.5
Jul 7	942	942	942	942	942	942	942	941	941	941	941	940	940	940	939	939	939	939	939	939	939	940	940	939	939	942	940.4
Jul 8	939	939	939	939	939	939	939	940	940	940	939	939	939	939	939	939	938	938	938	938	938	938	939	939	938	940	938.9
Jul 9	939	939	939	939	938	939	939	939	939	938	938	938	938	937	937	937	937	937	937	937	938	938	938	938	937	939	938.0
Jul 10	938	938	938	938	939	939	939	939	939	939	940	940	940	940	940	940	940	940	940	941	941	941	941	942	938	942	939.7
Jul 11	942	942	942	942	942	942	942	942	942	942	941	941	941	941	941	941	940	940	939	939	938	939	940	940	938	942	940.9
Jul 12	939	939	939	939	939	939	939	939	939	938	938	938	938	938	937	938	937	937	936	937	937	937	936	936	936	939	937.9
Jul 13	935	935	935	935	934	935	935	935	935	935	934	934	935	934	934	935	934	934	935	935	935	935	936	936	934	936	934.8
Jul 14	936	936	936	936	937	937	937	937	938	938	938	938	938	938	938	938	938	938	938	939	939	940	940	940	936	940	937.8
Jul 15	940	940	940	940	940	941	941	941	940	940	940	940	940	939	939	939	939	938	938	938	938	938	938	938	938	941	939.4
Jul 16	938	938	938	938	939	938	939	939	939	939	938	939	939	939	938	938	938	938	938	939	939	940	940	940	938	940	938.7
Jul 17	940	940	940	940	940	940	940	940	939	939	939	939	938	938	937	937	936	936	935	935	935	935	935	935	935	940	937.8
Jul 18	934	934	934	934	934	933	933	933	933	933	933	**932**	**932**	**932**	**932**	**932**	**932**	**932**	**932**	**932**	**932**	**932**	933	933	**932**	934	932.8
Jul 19	933	933	933	933	933	934	934	935	935	935	935	935	936	936	936	937	937	937	937	938	938	938	939	939	933	939	935.7
Jul 20	939	939	939	939	939	940	940	940	940	940	940	939	939	939	939	939	938	938	938	938	938	938	938	938	938	940	938.9
Jul 21	938	937	937	937	937	937	936	936	936	936	936	936	937	937	938	939	939	939	939	939	940	940	940	940	936	940	937.8
Jul 22	941	941	941	941	941	941	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	943	943	943	941	943	941.9
Jul 23	943	943	943	942	942	942	942	942	942	942	941	941	941	941	940	940	940	940	939	939	939	939	940	940	939	943	941.0
Jul 24	940	940	940	940	941	941	942	942	942	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943	940	943	942.2
Jul 25	943	942	943	943	943	943	943	943	944	944	944	944	944	944	944	944	944	944	944	944	944	945	945	945	942	945	943.8
Jul 26	945	945	945	945	945	945	945	944	944	944	944	943	943	943	942	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	942	945	-
Jul 27	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	-	-	-
Jul 28	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	939	939	939	938	938	938	938	938	938	939	939	940	940	941	941	938	941	-
Jul 29	941	942	942	943	943	943	944	943	943	943	943	942	942	942	941	941	940	940	940	940	940	941	941	941	940	944	941.7
Jul 30	942	942	942	942	943	944	944	944	944	944	945	945	945	945	945	944	944	944	944	943	943	944	944	943	942	945	943.7
Jul 31	943	943	943	942	943	943	942	943	942	942	941	941	941	941	941	940	940	939	939	939	940	939	939	939	939	943	941.0
Diurnal Maximum	948	948	948	947	947	947	947	947	947	947	947	947	948	948	948	948	948	948	948	948	948	948	948	948			
Diurnal Average	941	941	941	941	941	941	941	941	941	941	941	941	941	941	940	940	940	940	940	940	940	940	941	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 - July 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

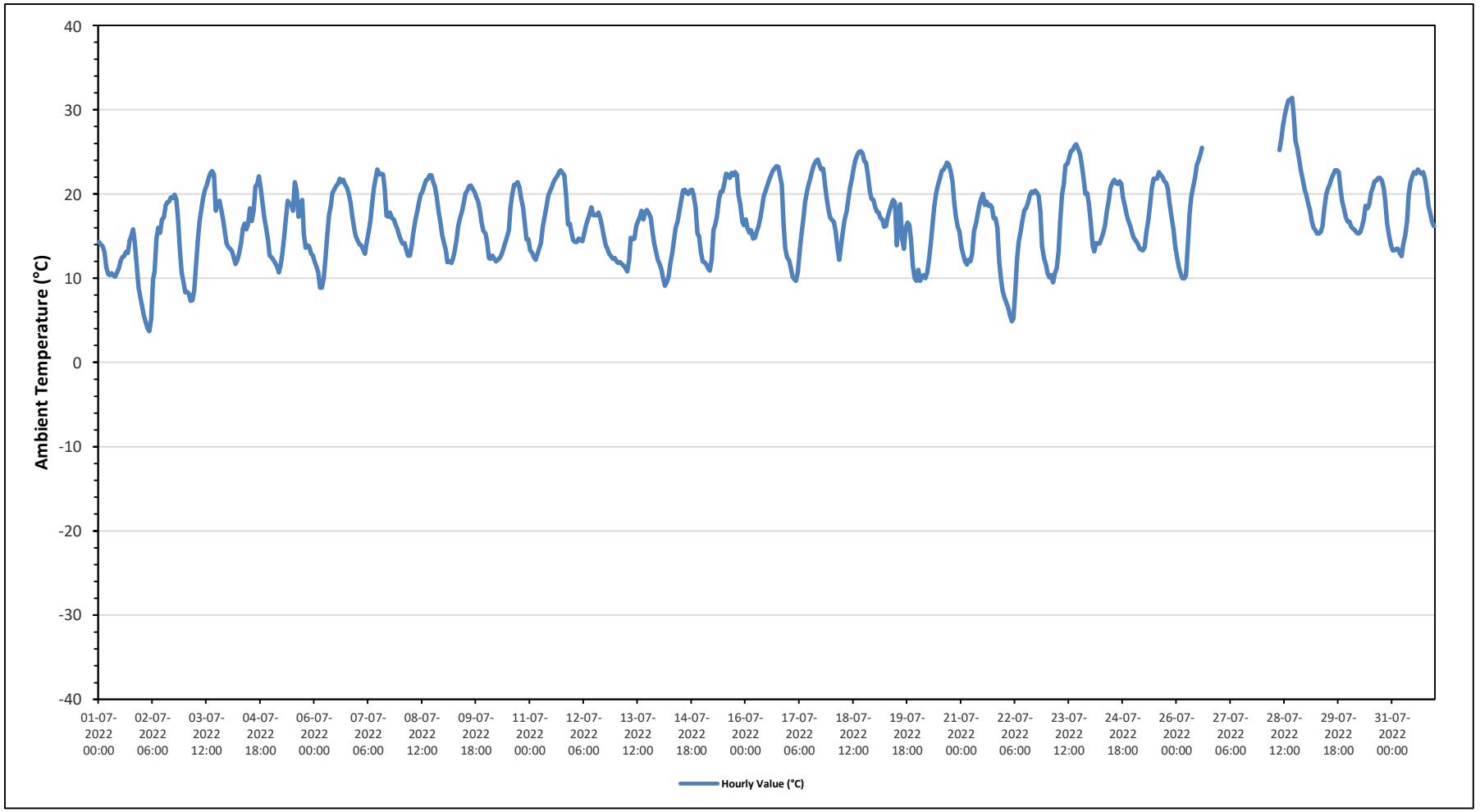
Maximum Hourly Value:	31.4	°C	on July 28 at hour 16	Hours in Service:	744
Maximum Daily Value:	19.8	°C	on July 18	Hours of Data:	702
Minimum Hourly Value:	3.7	°C	on July 2 at hour 4	Hours of Missing Data:	42
Minimum Daily Value:	12.1	°C	on July 1	Hours of Calibration:	0
Monthly Average:	16.9	°C		Operational Uptime:	94.4

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	14.3	14	13.8	13.1	11.3	10.5	10.4	10.6	10.3	10.2	10.7	11.2	12	12.5	12.6	13.1	13	14.5	15	15.8	14.1	11.1	8.9	7.7	7.7	15.8	12.1
Jul 2	6.6	5.6	4.8	4.1	**3.7**	5.2	9.9	10.8	14.7	16	15.4	17	17.2	18.6	19	19.1	19.6	19.5	19.9	19.3	17.1	13.5	10.7	9.5	**3.7**	19.9	13.2
Jul 3	8.3	8.4	8.2	7.3	7.4	8.6	11.7	14.7	16.9	18.2	19.6	20.5	21.1	21.9	22.5	22.7	22.3	18	18.9	19.2	18.1	17.1	15.6	14.1	7.3	22.7	15.9
Jul 4	13.7	13.5	13.2	12.4	11.7	12.1	13	14.1	15.9	16.5	15.8	16.4	18.3	16.8	18	20.9	21.2	22.1	20.7	18.9	17.1	15.9	14.5	12.7	11.7	22.1	16.1
Jul 5	12.5	12.2	11.8	11.4	10.7	11.4	12.8	14.8	16.8	19.2	18.8	18.7	18	21.4	20.3	17.3	17.8	19.3	15.3	13.6	13.9	13.8	12.9	12.7	10.7	21.4	15.3
Jul 6	12	11.4	10.7	8.9	8.9	10	12.5	15	17.5	18.6	20.1	20.6	21	21.2	21.8	21.4	21.7	21.1	20.7	19.9	19	17.3	15.9	15	8.9	21.8	16.8
Jul 7	14.4	14	13.9	13.4	12.9	14.2	15.5	16.9	18.8	20.7	21.9	22.9	22.3	22.4	22.3	20.6	17.4	17.3	17.8	17.1	17	16.4	15.9	15.1	12.9	22.9	17.5
Jul 8	14.6	14.1	14.2	13.4	12.7	12.7	13.9	15.4	16.9	17.9	18.9	19.9	20.3	20.9	21.6	21.8	22.2	22.2	21.4	20.9	19.7	17.8	16.5	15.1	12.7	22.2	17.7
Jul 9	14.2	13.3	11.9	12	11.8	12.3	13.3	14.6	16.2	17.1	18	18.9	20.1	20.4	20.9	21	20.6	20.2	19.6	19.1	18	16.6	15.6	15.3	11.8	21.0	16.7
Jul 10	14.3	12.4	12.3	12.7	12.3	12	12.2	12.4	12.8	13.5	14.1	14.8	15.7	18.4	20	21.1	21.1	21.4	20.8	19.4	18.4	16.4	14.6	14.6	12.0	21.4	15.7
Jul 11	13.3	13	12.5	12.2	12.9	13.5	14.2	16.1	17.3	18.5	19.8	20.3	20.8	21.4	21.8	22.1	22.6	22.8	22.5	22.2	19.8	16.4	16.5	15.3	12.2	22.8	17.8
Jul 12	14.5	14.3	14.3	14.7	14.5	14.4	15.2	16.2	16.9	17.6	18.4	17.5	17.5	17.5	17.8	17.1	16.1	14.9	13.9	13.5	12.9	12.6	12.3	12.4	12.3	18.4	15.3
Jul 13	12	11.8	11.9	11.7	11.5	11.2	10.8	12.2	14.8	14.6	14.7	16.2	16.8	17.3	18	17	17.8	18.1	17.7	17.2	15.7	14.2	13.2	12.2	10.8	18.1	14.5
Jul 14	11.7	11	9.9	9.1	9.5	10.2	11.6	13	14.6	16	16.7	17.9	19	20.4	20.5	20.1	20	20.4	20.5	19.9	18.4	15.3	15	13.1	9.1	20.5	15.6
Jul 15	12	11.9	11.6	11.1	10.9	12.2	15.7	16.4	17.3	19.4	20.3	20.3	21.2	22.4	22.3	21.9	22.5	22.2	22.6	22.3	19.9	18.8	16.7	16.3	10.9	22.6	17.8
Jul 16	17	15.9	15.4	15.7	14.7	14.8	15.5	16.1	17.1	18.2	19.7	20.4	21	21.7	22.2	22.7	23	23.3	23.2	22.2	21.1	16.4	13.6	12.5	12.5	23.3	18.5
Jul 17	12.1	11.3	10.2	9.9	9.7	10.7	13.5	15.2	17	19.1	20.3	21.1	21.9	22.9	23.5	23.9	24.1	23.5	22.9	23	21.3	19.5	18.1	17.2	9.7	24.1	18.0
Jul 18	16.9	16.7	15.6	13.7	12.2	13.9	15.4	16.9	17.9	19.3	20.8	21.8	22.9	24	24.6	25	25.1	24.8	23.9	23.7	22.2	20.2	19.4	19.3	12.2	25.1	**19.8**
Jul 19	18.4	17.9	17.8	17.1	17	16.1	16.2	17.2	18	18.7	19.3	19	13.9	16.8	18.8	14.7	13.5	16	16.6	16.3	14.6	11.5	10	9.7	9.7	19.3	16.0
Jul 20	11	9.7	10.1	10.4	10	10.7	12.3	14.3	16.7	18.6	20.1	21.1	21.8	22.7	22.9	23.2	23.7	23.5	22.7	21.5	18.9	17.3	16.1	15.5	9.7	23.7	17.3
Jul 21	13.7	12.8	12	11.6	12.2	12	12.9	15.6	16.4	17.6	18.6	19.4	20	18.7	19.1	18.6	18.7	18.4	17.1	17.1	16	12	9.8	8.5	8.5	20.0	15.4
Jul 22	7.7	7.1	6.5	5.6	4.9	5.2	8.5	12.3	14.3	15.6	17	18.1	18.3	18.9	19.8	20.3	20.1	20.4	20.2	19.8	17.8	13.8	12.3	11.6	4.9	20.4	14.0
Jul 23	10.6	10.1	10.4	9.5	10.6	11.2	13.2	16.7	19.9	21.2	23.4	23.6	24.4	25.1	25.2	25.7	25.9	25.3	24.7	23.3	21.9	20	20.1	18.9	9.5	25.9	19.2
Jul 24	16.5	13.8	13.2	14.2	14.1	14.1	14.8	15.5	16.3	18	19.2	20.7	21.3	21.7	21.3	21.2	21.5	21.2	19.6	18.5	17.4	16.8	16.2	15.4	13.2	21.7	17.6
Jul 25	14.8	14.5	14.1	13.6	13.4	13.3	13.7	15.4	17	18.9	20.7	21.8	21.8	21.8	22.6	22.2	22	21.5	21.3	20.6	18.8	17.1	15.7	13.8	13.3	22.6	17.9
Jul 26	12.5	11.3	10.7	10	10	10.3	13.9	17.7	19.6	20.8	22	23.4	24	24.7	25.5	N	N	N	N	N	N	N	N	N	10.0	25.5	-
Jul 27	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	-	-
Jul 28	N	N	N	N	N	N	N	N	N	25.2	26.5	28	29.3	30.3	31.1	31.2	**31.4**	29.5	26.3	25.4	24.1	22.7	21.7	20.5	20.5	**31.4**	-
Jul 29	19.9	18.9	18.1	16.8	16	15.7	15.3	15.3	15.5	16.2	18.3	19.9	20.7	21.1	21.8	22.3	22.8	22.8	22.6	20.7	19.1	18.2	17.2	16.7	15.3	22.8	18.8
Jul 30	16.7	16.1	15.9	15.7	15.4	15.3	15.5	16.2	17	18.6	18.3	18.8	20.2	20.8	21.5	21.6	21.9	21.9	21.6	20.7	19.1	16.5	15.1	14	14.0	21.9	18.1
Jul 31	13.3	13.3	13.5	13.5	13	12.6	14.1	15.1	16.8	19.9	21.4	22.1	22.6	22.4	22.9	22.6	22.4	22.6	21.8	20.4	18.5	17.6	16.7	16.2	12.6	22.9	18.1
Diurnal Maximum	19.9	18.9	18.1	17.1	17.0	16.1	16.2	17.7	19.9	25.2	26.5	28.0	29.3	30.3	31.1	31.2	31.4	29.5	26.3	25.4	24.1	22.7	21.7	20.5			
Diurnal Average	13.4	12.8	12.4	11.9	11.6	11.9	13.4	14.9	16.5	18.0	19.0	19.7	20.2	20.9	21.4	21.1	21.1	21.0	20.4	19.7	18.3	16.3	15.1	14.2			

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 - 842b Station



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - July 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

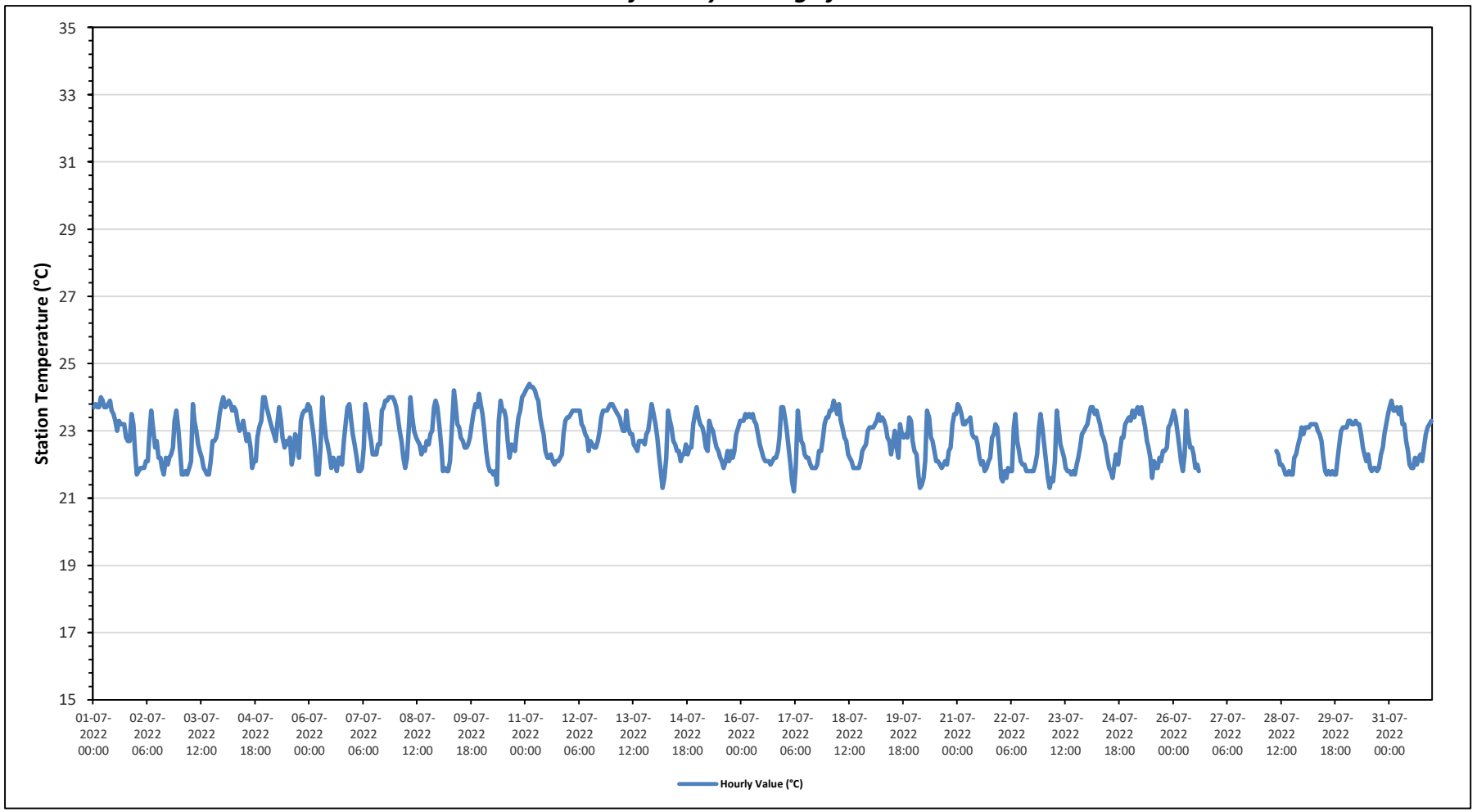
Maximum Hourly Value:	24.4	°C	on July 11 at hour 2	Hours in Service:	744
Maximum Daily Value:	23.4	°C	on July 1	Hours of Data:	702
Minimum Hourly Value:	21.2	°C	on July 17 at hour 5	Hours of Missing Data:	42
Minimum Daily Value:	22.2	°C	on July 22	Hours of Calibration:	0
Monthly Average:	22.8	°C		Operational Uptime:	94.4

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	23.7	23.8	23.7	23.7	24.0	23.9	23.7	23.7	23.8	23.9	23.6	23.5	23.3	23.0	23.3	23.2	23.2	23.2	22.8	22.7	22.7	23.5	23.2	22.3	22.3	24.0	**23.4**
Jul 2	21.7	21.8	21.9	21.9	21.9	22.1	22.1	22.9	23.6	23.1	22.5	22.7	22.2	22.2	21.9	21.7	22.2	22.0	22.2	22.3	22.5	23.3	23.6	23.0	21.7	23.6	22.4
Jul 3	22.3	21.7	21.7	21.8	21.7	21.9	22.1	23.8	23.3	23.0	22.6	22.4	22.2	21.9	21.8	21.7	21.7	22.1	22.7	22.7	22.8	23.1	23.5	23.8	21.7	23.8	22.4
Jul 4	24.0	23.7	23.8	23.9	23.8	23.6	23.7	23.6	23.2	23.0	23.1	23.3	23.0	22.7	22.9	22.5	21.9	22.1	22.1	22.8	23.1	23.3	24.0	24.0	21.9	24.0	23.2
Jul 5	23.7	23.5	23.3	23.1	22.9	22.7	23.2	23.7	23.3	22.8	22.5	22.7	22.6	22.8	22.0	22.3	22.9	22.8	22.2	23.3	23.5	23.6	23.6	23.8	22.0	23.8	23.0
Jul 6	23.7	23.3	22.9	22.4	21.7	21.7	22.5	24.0	23.3	22.8	22.6	22.3	21.9	22.2	22.0	21.8	22.2	22.2	22.0	22.7	23.3	23.7	23.8	23.3	21.7	24.0	22.7
Jul 7	22.9	22.6	22.2	21.8	21.8	21.9	22.5	23.8	23.5	23.0	22.7	22.3	22.3	22.3	22.6	22.6	23.6	23.7	23.9	23.9	24.0	24.0	24.0	23.9	21.8	24.0	23.0
Jul 8	23.7	23.4	23.0	22.7	22.2	21.9	22.2	23.1	24.0	23.4	23.0	22.8	22.7	22.6	22.3	22.5	22.4	22.7	22.6	22.9	23.0	23.7	23.9	23.7	21.9	24.0	22.9
Jul 9	23.1	22.5	21.8	21.9	21.8	21.8	22.1	23.2	24.2	23.8	23.2	23.1	22.8	22.7	22.5	22.5	22.6	22.8	23.2	23.5	23.8	23.7	24.1	23.8	21.8	24.2	22.9
Jul 10	23.5	23.0	22.4	22.0	21.8	21.8	21.7	21.8	21.4	23.3	23.9	23.6	23.6	23.4	22.7	22.2	22.6	22.5	22.4	23.0	23.4	23.6	24.0	24.1	21.4	24.1	22.8
Jul 11	24.2	24.3	**24.4**	24.3	24.3	24.2	24.0	23.9	23.4	23.1	22.9	22.4	22.2	22.2	22.3	22.1	22.0	22.1	22.1	22.2	22.3	22.9	23.3	23.4	22.0	**24.4**	23.1
Jul 12	23.4	23.5	23.6	23.6	23.6	23.6	23.6	23.2	23.1	22.9	22.8	22.4	22.7	22.6	22.5	22.5	22.7	23.0	23.4	23.6	23.6	23.6	23.7	23.8	22.4	23.8	23.2
Jul 13	23.8	23.7	23.6	23.5	23.4	23.2	23.0	23.0	23.6	23.1	22.9	22.9	22.6	22.5	22.4	22.7	22.7	22.7	22.6	22.9	23.0	23.4	23.8	23.5	22.4	23.8	23.1
Jul 14	23.2	22.8	22.3	21.8	21.3	21.6	22.2	23.6	23.3	23.1	22.7	22.6	22.4	22.4	22.1	22.3	22.3	22.6	22.3	22.5	22.5	23.2	23.5	23.7	21.3	23.7	22.6
Jul 15	23.4	23.2	23.1	22.9	22.5	22.4	23.3	23.1	23.0	22.7	22.5	22.4	22.2	22.1	21.9	22.1	22.4	22.1	22.4	22.2	22.4	22.9	23.1	23.3	21.9	23.4	22.7
Jul 16	23.3	23.3	23.5	23.4	23.5	23.4	23.5	23.3	23.2	22.9	22.6	22.4	22.2	22.1	22.1	22.1	22.0	22.1	22.2	22.2	22.4	22.8	23.7	23.7	22.0	23.7	22.8
Jul 17	23.4	23.0	22.5	22.0	21.5	**21.2**	21.9	23.6	23.1	22.7	22.6	22.3	22.2	22.2	22.0	21.9	21.9	21.9	22.0	22.4	22.4	22.8	23.2	23.4	**21.2**	23.6	22.4
Jul 18	23.4	23.6	23.6	23.9	23.7	23.5	23.8	23.3	23.1	22.8	22.7	22.3	22.2	22.1	21.9	21.9	21.9	21.9	22.1	22.4	22.5	22.6	23.0	23.1	21.9	23.9	22.8
Jul 19	23.1	23.1	23.2	23.3	23.5	23.3	23.4	23.3	23.1	22.8	22.7	22.3	22.7	23.0	22.5	22.2	23.2	22.9	22.8	22.9	22.8	23.4	23.3	22.7	22.2	23.5	23.0
Jul 20	22.4	22.3	21.7	21.3	21.4	21.6	22.1	23.6	23.4	22.8	22.7	22.4	22.1	22.1	22.0	21.9	22.0	22.1	22.0	22.4	22.5	23.2	23.5	23.5	21.3	23.6	22.4
Jul 21	23.8	23.7	23.5	23.2	23.2	23.3	23.3	23.4	22.9	22.8	22.8	22.6	22.2	22.0	22.1	21.8	21.9	22.1	22.2	22.8	22.9	23.2	23.1	22.4	21.8	23.8	22.8
Jul 22	21.6	21.5	21.8	21.6	21.9	21.8	21.8	23.1	23.5	22.7	22.4	22.1	22.0	22.0	21.8	21.8	21.8	21.8	21.8	22.0	22.3	23.1	23.5	23.1	21.5	23.5	22.2
Jul 23	22.6	22.1	21.6	21.3	21.6	21.5	22.1	23.6	23.1	22.6	22.4	22.2	21.9	21.8	21.8	21.7	21.8	21.7	22.0	22.2	22.5	22.9	23.0	23.1	21.3	23.6	22.2
Jul 24	23.2	23.5	23.7	23.7	23.5	23.6	23.4	23.2	22.9	22.8	22.6	22.2	21.9	21.8	21.6	22.0	22.3	22.0	22.4	22.8	22.8	23.2	23.3	23.4	21.6	23.7	22.8
Jul 25	23.3	23.6	23.4	23.6	23.7	23.5	23.7	23.4	23.1	22.7	22.5	22.2	21.6	22.1	21.9	21.9	22.2	22.1	22.4	22.4	22.5	23.1	23.2	23.4	21.6	23.7	22.8
Jul 26	23.6	23.4	23.0	22.5	22.1	21.8	22.3	23.6	22.9	22.5	22.5	22.3	21.9	22.0	21.8	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	21.8	23.6	-
Jul 27	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	-	-	-
Jul 28	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	22.4	22.3	22.0	22.0	21.9	21.7	21.7	21.8	21.7	21.7	22.2	22.3	22.6	22.8	23.1	21.7	23.1	-
Jul 29	22.9	23.1	23.1	23.1	23.2	23.2	23.2	23.2	23.0	22.9	22.7	22.2	21.8	21.7	21.8	21.7	21.8	21.7	21.7	22.2	22.6	23.0	23.1	23.1	21.7	23.2	22.6
Jul 30	23.1	23.3	23.3	23.2	23.2	23.3	23.2	23.2	22.9	22.5	22.3	22.1	22.3	21.9	21.8	21.9	21.9	21.8	21.9	22.3	22.5	22.9	23.2	23.5	21.8	23.5	22.6
Jul 31	23.7	23.9	23.6	23.6	23.7	23.5	23.7	23.2	23.2	22.7	22.4	22.0	21.9	21.9	22.2	22.0	22.2	22.3	22.1	22.5	22.9	23.1	23.2	23.3	21.9	23.9	22.9
Diurnal Maximum	24.2	24.3	24.4	24.3	24.3	24.2	24.0	24.0	24.2	23.9	23.9	23.6	23.6	23.4	23.3	23.2	23.6	23.7	23.9	23.9	24.0	24.0	24.1	24.1			
Diurnal Average	23.2	23.1	22.9	22.8	22.7	22.6	22.9	23.4	23.2	22.9	22.7	22.5	22.3	22.3	22.1	22.1	22.3	22.3	22.4	22.7	22.8	23.2	23.5	23.4			

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

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

Timeseries Chart of Hourly Average for ST - 842b Station



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - July 2022

Summary of Hourly Averages

PRECIPITATION in mm

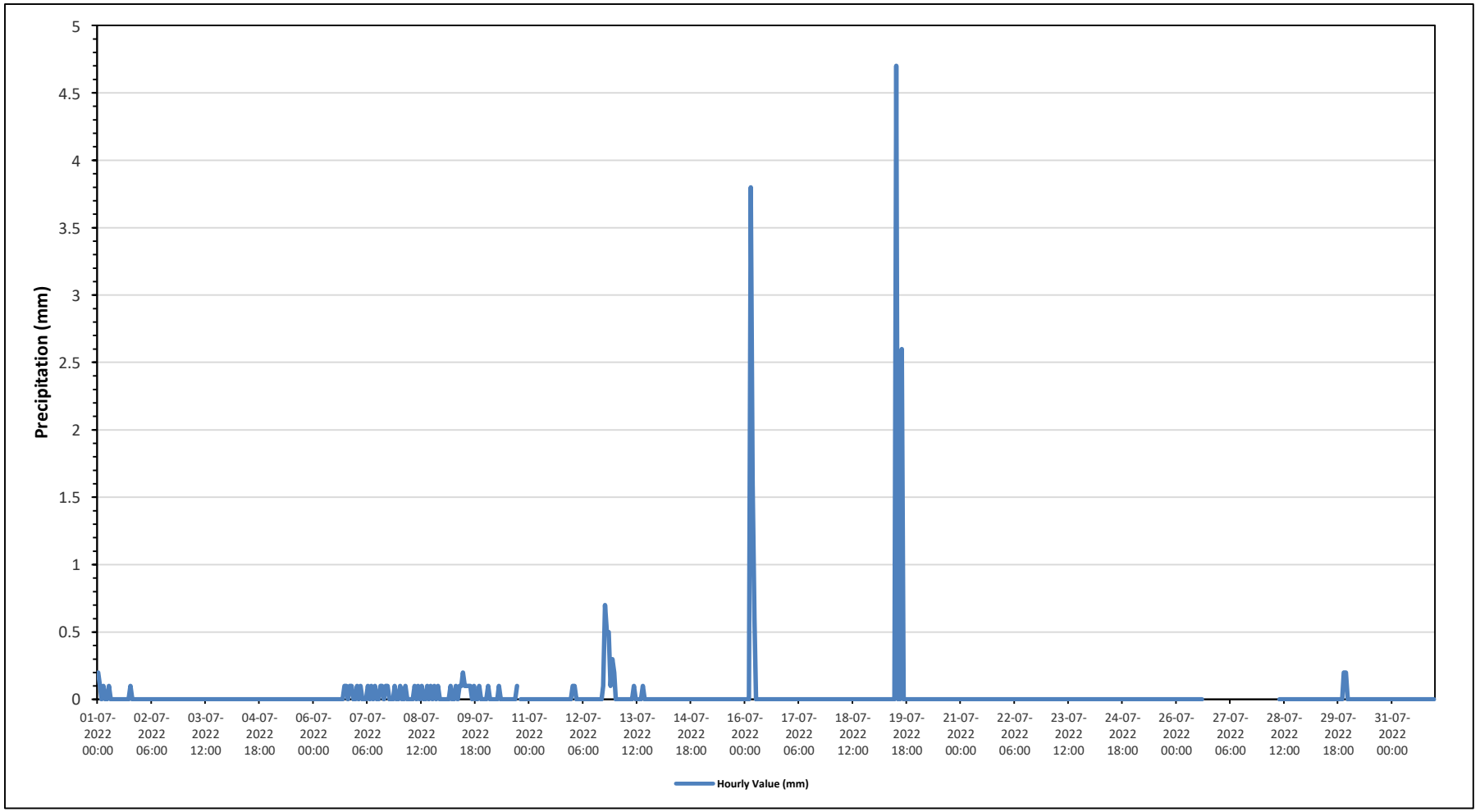
Maximum Hourly Value:	4.7	mm	on July 19 at hour 12	Hours in Service:	744
Maximum Daily Value:	7.3	mm	on July 19	Hours of Data:	701
Minimum Hourly Value:	0.0	mm	on July 1 at hour 2	Hours of Missing Data:	42
Minimum Daily Value:	0.0	mm	on July 2	Hours of Calibration:	1
Monthly Total:	20.9	mm		Operational Uptime:	94.4

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Total
Jul 1	0.2	0.1	0	0.1	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0.0	0.2	0.6
Jul 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
Jul 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
Jul 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
Jul 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
Jul 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0	0.1	0.1	0	0	0.0	0.1	0.4
Jul 7	0.1	0	0.1	0	0	0	0.1	0	0.1	0	0.1	0	0	0.1	0.1	0	0.1	0.1	0	0	0	0.1	0	0	0.0	0.1	1.0
Jul 8	0.1	0	0	0.1	0	0	0	0	0.1	0	0.1	0	0.1	0	0	0.1	0	0.1	0	0.1	0	0.1	0	0	0.0	0.1	0.9
Jul 9	0	0	0	0	0.1	0	0	0.1	0	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0	0.1	0	0	0.1	0	0	0	0.0	0.2	1.2
Jul 10	0	0.1	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0.1	C	0	0	0	0	0	0.0	0.1	0.3
Jul 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
Jul 12	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.7	0.5	0.5	0.1	0.3	0.2	0.0	0.7	2.6
Jul 13	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0.0	0.1	0.2
Jul 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
Jul 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
Jul 16	0	0	0	3.8	1.6	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	3.8	6.0
Jul 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
Jul 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
Jul 19	0	0	0	0	0	0	0	0	0	0	0	0	**4.7**	0	0	2.6	0	0	0	0	0	0	0	0	0.0	**4.7**	**7.3**
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	N	N	N	N	N	N	N	0.0	0.0	-
Jul 27	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	-	-	-
Jul 28	N	N	N	N	N	N	N	N	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	-
Jul 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.2	0	0.0	0.2	0.4
Jul 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
Jul 31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Diurnal Maximum	0.2	0.1	0.1	3.8	1.6	0.6	0.1	0.1	0.1	0.1	0.1	0.2	4.7	0.1	0.1	2.6	0.1	0.1	0.7	0.5	0.5	0.2	0.3	0.2			
Diurnal Average	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

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

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

Timeseries Chart of Hourly Average for Precipitation - 842b Station



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - July 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

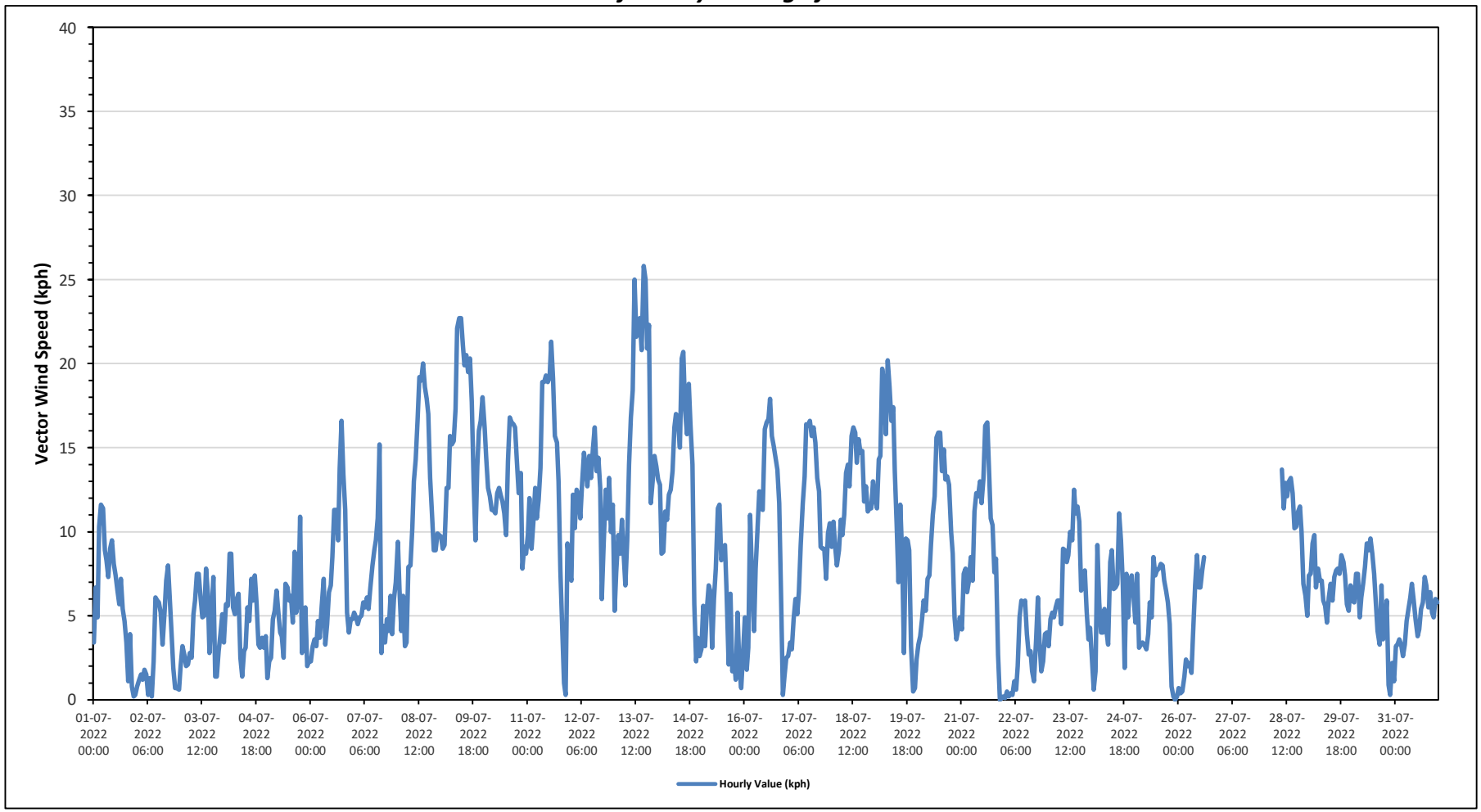
Maximum Hourly Value:	25.8	kph	on July 13 at hour 16	Hours in Service:	744
Maximum Daily Value:	15.4	kph	on July 9	Hours of Data:	702
Minimum Hourly Value:	0.0	kph	on July 21 at hour 21	Hours of Missing Data:	42
Minimum Daily Value:	0.4	kph	on July 22	Hours of Calibration:	0
Monthly Average:	4.2	kph		Operational Uptime:	94.4

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	3.4	6.7	4.9	10.3	11.6	11.4	8.9	8.3	7.3	9.0	9.5	8.1	7.4	6.5	5.7	7.2	5.4	4.7	3.4	1.1	3.9	0.8	0.2	0.3	0.2	11.6	4.6
Jul 2	0.8	1.2	1.5	1.2	1.8	1.5	0.3	1.3	0.2	2.3	6.1	5.9	5.8	5.2	3.3	5.3	7.1	8.0	5.9	3.8	1.9	0.7	0.7	0.6	0.2	8.0	2.0
Jul 3	2.0	3.2	2.7	2.0	2.1	2.8	2.5	5.1	5.9	7.5	7.5	6.1	4.9	5.0	7.8	6.3	2.8	4.8	7.3	1.4	1.4	2.9	3.9	5.1	1.4	7.8	1.6
Jul 4	3.4	5.7	5.6	8.7	8.7	5.5	5.1	6.0	6.3	2.5	1.4	2.9	3.1	5.5	4.7	7.2	5.9	7.4	5.7	3.3	3.1	3.7	3.1	3.8	1.4	8.7	4.5
Jul 5	1.3	2.3	2.5	4.8	5.3	6.5	5.2	4.0	3.8	2.5	6.9	6.7	5.9	6.2	4.6	8.8	5.2	5.9	10.9	2.8	4.0	5.5	2.0	2.3	1.3	10.9	1.8
Jul 6	2.3	3.2	3.6	3.2	4.7	3.7	5.5	7.2	3.3	4.5	6.4	6.8	8.5	11.3	11.3	9.5	13.8	16.6	13.4	11.3	5.2	4.0	4.8	4.8	2.3	16.6	6.5
Jul 7	5.2	4.9	4.5	4.9	5.0	5.8	5.5	6.1	5.4	6.7	8.0	8.9	9.5	10.8	15.2	2.8	4.4	3.4	4.8	4.1	6.2	3.9	6.0	7.0	2.8	15.2	5.6
Jul 8	9.4	6.6	4.1	6.2	3.2	3.4	7.9	8.0	10.2	13.0	14.3	16.6	19.2	19.0	20.0	18.6	17.9	17.0	13.2	11.1	8.9	8.9	9.9	9.8	3.2	20.0	10.8
Jul 9	9.7	9.0	9.2	12.6	12.6	15.7	15.2	15.4	17.3	22.1	22.7	22.7	21.1	19.9	20.5	19.5	20.3	17.7	13.0	9.5	13.9	16.0	16.6	18.0	9.0	22.7	**15.4**
Jul 10	16.2	14.4	12.6	12.1	11.3	11.3	11.1	12.3	12.6	12.2	11.8	11.1	9.8	14.2	16.8	16.5	16.4	16.2	14.2	12.3	13.5	7.8	9.1	8.7	7.8	16.8	12.1
Jul 11	9.8	12.0	9.0	10.6	12.6	10.8	11.9	13.8	18.9	18.9	19.3	18.9	19.2	21.3	19.1	15.7	15.3	13.0	7.7	4.3	1.0	0.3	9.3	7.7	0.3	21.3	11.5
Jul 12	7.1	12.2	10.2	12.5	12.2	10.8	12.9	14.7	13.7	12.7	14.5	13.2	14.9	16.2	13.6	14.4	12.6	6.0	9.2	12.5	10.8	13.2	10.0	11.6	6.0	16.2	11.2
Jul 13	5.3	7.6	9.8	8.7	10.7	8.8	6.8	9.5	14.0	16.8	18.4	25.0	21.6	22.4	22.7	20.8	**25.8**	25.0	20.9	22.3	11.7	13.0	14.5	13.9	5.3	**25.8**	14.9
Jul 14	13.1	12.8	8.7	8.8	11.2	10.7	12.2	12.5	13.6	16.2	17.0	16.8	15.0	20.3	20.7	17.2	15.8	18.8	16.5	14.0	5.7	2.3	3.7	2.6	2.3	20.7	12.2
Jul 15	3.0	5.6	3.2	5.4	6.8	6.4	3.1	6.0	7.8	11.4	11.6	8.3	9.0	9.2	6.5	2.1	6.3	1.7	2.6	1.2	5.2	1.9	0.7	2.8	0.7	11.6	4.0
Jul 16	4.9	1.8	3.1	11.0	7.4	4.1	7.8	10.1	12.4	11.4	11.3	16.1	16.5	16.7	17.9	15.7	15.1	14.4	13.7	11.7	6.2	0.3	1.4	2.5	0.3	17.9	8.5
Jul 17	2.6	3.4	3.0	4.8	6.0	5.1	6.4	9.2	11.7	13.3	16.4	16.3	16.6	15.7	16.2	15.3	13.2	12.4	9.1	9.0	9.0	7.2	9.9	10.5	2.6	16.6	8.9
Jul 18	9.1	10.6	9.2	8.0	8.9	10.7	9.8	11.0	13.5	14.0	12.7	15.7	16.2	15.9	14.1	15.5	14.7	14.8	11.8	12.7	11.2	11.4	11.4	13.0	8.0	16.2	11.3
Jul 19	12.0	11.4	14.3	14.5	19.7	18.8	15.8	20.2	18.6	16.6	17.4	13.6	10.5	7.0	11.6	8.6	2.8	9.6	9.5	8.9	3.2	0.5	0.7	2.4	0.5	20.2	10.0
Jul 20	3.3	3.8	4.8	5.9	5.3	7.2	7.4	9.2	11.0	12.1	15.6	15.9	15.9	13.6	14.9	13.1	13.3	12.8	10.0	8.7	4.9	3.6	4.2	4.9	3.3	15.9	8.8
Jul 21	4.2	7.5	7.8	6.4	7.1	8.5	7.1	11.2	12.3	12.1	13.0	11.7	13.1	16.3	16.5	13.9	10.8	10.4	7.6	8.4	2.7	**0.0**	0.1	0.2	**0.0**	16.5	3.4
Jul 22	0.1	0.5	0.2	0.4	0.3	1.1	0.6	2.0	4.9	5.9	5.7	5.9	3.9	2.7	2.9	1.7	1.1	3.5	6.1	3.5	1.7	2.3	3.9	4.0	0.1	6.1	**0.4**
Jul 23	3.2	4.8	5.2	4.9	5.5	5.9	5.9	4.5	9.0	8.9	8.2	8.6	10.0	9.5	12.5	11.1	11.5	10.6	6.5	6.9	7.7	5.3	3.6	4.3	3.2	12.5	5.2
Jul 24	2.5	0.6	1.7	9.2	5.8	4.0	4.0	5.4	4.2	3.3	8.2	8.9	6.6	6.7	6.9	11.1	9.5	6.9	1.9	7.5	4.9	6.9	7.4	6.2	0.6	11.1	3.3
Jul 25	4.6	7.5	3.1	3.3	3.4	3.3	3.0	3.9	5.8	4.9	8.5	7.4	7.7	7.8	8.1	8.0	7.1	6.5	5.8	4.5	0.8	0.2	**0.0**	0.2	**0.0**	8.5	2.8
Jul 26	0.7	0.4	0.5	1.4	2.4	2.0	2.2	1.6	3.9	6.8	8.6	6.7	6.7	7.7	8.5	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	0.4	8.6	-
Jul 27	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	-	-	-
Jul 28	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	13.7	11.4	12.9	12.1	13.0	13.2	12.3	10.2	10.3	11.2	11.5	10.0	6.9	6.2	5.0	5.0	13.7	-
Jul 29	7.4	7.5	9.3	9.8	6.7	7.8	7.1	7.1	5.9	5.6	4.6	6.1	6.9	5.9	7.3	7.7	7.8	7.5	8.6	8.2	7.4	5.7	5.3	6.8	4.6	9.8	6.6
Jul 30	5.9	5.8	7.5	7.5	4.9	6.1	6.9	7.9	9.3	8.9	9.6	8.7	7.5	5.9	4.1	3.3	6.8	3.6	4.2	5.9	0.9	0.3	2.2	1.1	0.3	9.6	3.6
Jul 31	3.2	3.3	3.6	3.3	2.6	3.3	4.7	5.4	6.1	6.9	5.9	4.8	3.8	4.2	5.4	5.8	7.3	6.8	5.5	6.4	5.2	4.9	6.0	5.8	2.6	7.3	4.8
Diurnal Maximum	16	14	14	15	20	19	16	20	19	22	23	25	22	22	23	21	26	25	21	22	14	16	17	18			
Diurnal Average	5.4	6.1	5.7	7.0	7.1	7.0	7.0	8.2	9.3	10.1	11.1	11.2	11.0	11.4	11.8	10.9	10.6	10.2	9.0	7.9	5.9	4.8	5.4	5.7			

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

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

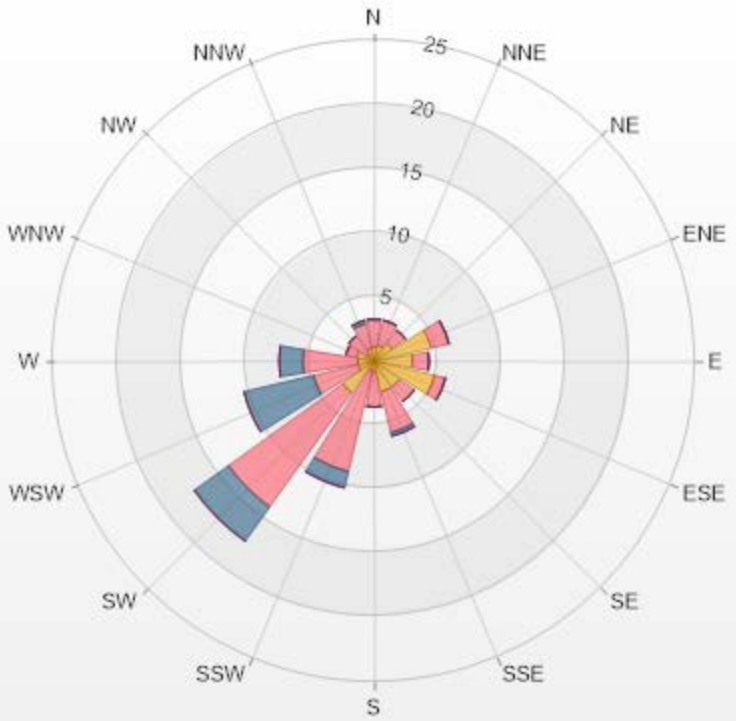
Timeseries Chart of Hourly Average for VWS - 842b Station



Wind: PRAMP 842b Monitor: WDS [KPH] Monthly: 07-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 7.98% Valid Data: 94.35%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	1.14	2.14	0	0	0	3.28
NNE	1.28	1.99	0	0	0	3.27
NE	1.71	1.28	0	0	0	2.99
ENE	4.56	1.42	0	0	0	5.98
E	2.99	1.28	0	0	0	4.27
ESE	4.84	0.85	0	0	0	5.69
SE	2.42	1.42	0	0	0	3.84
SSE	2.42	3.28	0.28	0	0	5.98
S	0.85	2.71	0	0	0	3.56
SSW	0.71	8.12	1.28	0	0	10.11
SW	2.99	10.97	3.28	0	0	17.24
WSW	1.28	3.56	5.56	0	0	10.4
W	1.28	4.27	1.85	0	0	7.4
WNW	1.42	0.85	0	0	0	2.27
NW	0.57	1.85	0	0	0	2.42
NNW	1	1.99	0.28	0	0	3.27
Summary	31.46	47.98	12.53	0	0	91.97

PRAMP 842b 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 7.98% Calm Wind Avg Speed: 0.82(KPH)



% Icon Classes (KPH)	31	1.8-6.0	48	6.0-15.0	13	15.0-29.0	0	29.0-39.0	0	>39.0

PEACE RIVER AREA MONITORING PROGRAM

842b Station - July 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

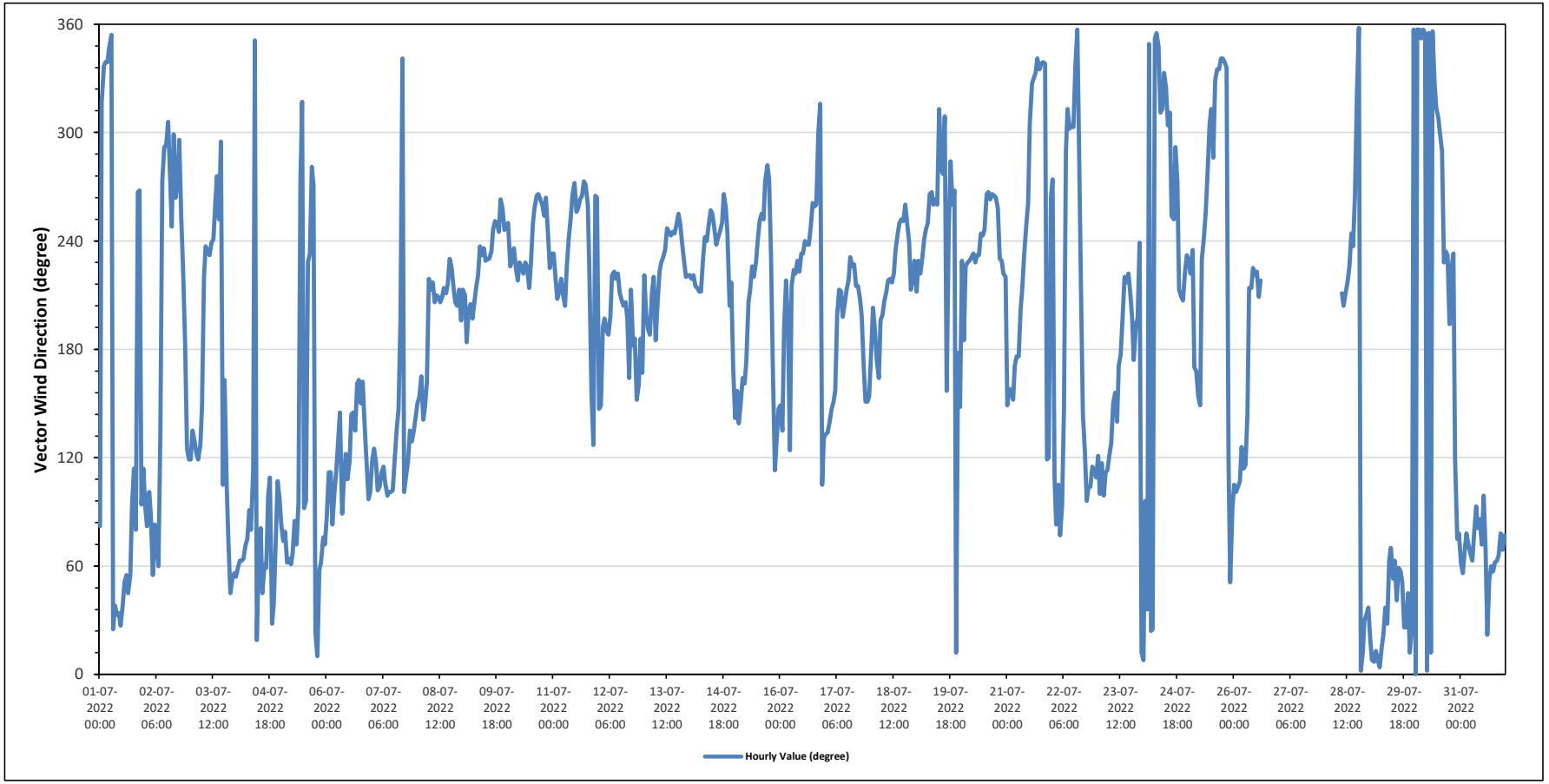
Monthly Average:	228 (SW)	degree	
Hours in Service:	744		
Hours of Data:	702		
Hours of Missing Data:	42		
Hours of Calibration:	0		
Operational Uptime:	94.4		

Day	Hourly Period Starting at (MST)																							Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Jul 1	E	NW	NNW	NNW	NNW	NNW	N	NNE	NE	NNE	NE	NNE	NE	NE	NE	NE	NE	E	ESE	E	W	W	E	ESE	19	NNE
Jul 2	E	E	E	E	NE	E	ENE	ENE	SE	W	WNW	WNW	NW	W	WSW	WNW	W	W	WNW	WSW	SW	S	SE	ESE	283	W
Jul 3	ESE	SE	SE	ESE	ESE	SE	SSE	SW	SW	SW	SW	WSW	WSW	W	W	WSW	WNW	ESE	SSE	ESE	ENE	NE	NE	NE	209	SSW
Jul 4	NE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	ESE	N	NNE	ENE	E	NE	ENE	ENE	E	ESE	NNE	NE	ENE	ESE	E	70	ENE
Jul 5	E	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	E	W	NW	E	E	SW	SW	W	W	NNE	N	ENE	ENE	ENE	ENE	49	NE
Jul 6	E	ESE	ESE	E	E	ESE	SE	SE	E	ESE	ESE	ESE	ESE	SE	SE	SE	SSE	SSE	SSE	SSE	SE	ESE	E	E	134	SE
Jul 7	ESE	SE	ESE	E	ESE	ESE	ESE	ESE	E	E	E	E	ESE	SE	SE	SSW	NNW	E	ESE	ESE	SE	SE	SE	SE	120	ESE
Jul 8	SSE	SSE	SSE	SE	SE	SSE	SW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	206	SSW
Jul 9	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	231	SW
Jul 10	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SW	WSW	WSW	W	W	W	WSW	WSW	W	WSW	SW	SW	241	WSW
Jul 11	SW	SW	SSW	SSW	SW	SSW	SSW	SW	WSW	WSW	W	W	WSW	WSW	W	W	W	W	WSW	SW	SSE	SE	W	W	247	WSW
Jul 12	SE	SSE	S	SSW	S	S	SSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSE	SSW	S	S	SSE	SSE	S	SSE	193	S
Jul 13	SW	SSW	S	S	SSW	SW	S	SSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	233	SW
Jul 14	SW	SW	SW	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	W	WSW	WSW	SSW	SW	SSE	238	SW
Jul 15	SE	SSE	SE	SSE	SSE	SSE	S	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	W	W	W	SW	S	ESE	SE	SE	210	SSW
Jul 16	SSE	SE	S	SW	SSW	ESE	SSW	SW	SW	SW	SW	SW	SW	WSW	SW	SW	WSW	W	WSW	WSW	WNW	NW	ESE	SE	233	SW
Jul 17	SE	SE	SE	SE	SSE	SSE	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSE	SSE	SSE	SSE	200	SSW
Jul 18	S	SSW	S	S	SSE	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	SW	SW	222	SW
Jul 19	SSW	SW	SW	SW	WSW	WSW	WSW	W	W	WSW	W	WSW	NW	W	W	NW	SSE	WSW	WNW	WSW	W	NNE	S	SE	255	WSW
Jul 20	SW	S	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	W	W	W	W	W	W	WSW	SW	SW	SW	SW	246	WSW
Jul 21	SSE	SSE	SSE	SSE	S	S	S	SSW	SSW	SW	WSW	W	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	ESE	ESE	W	273	W
Jul 22	W	ESE	E	ESE	ENE	E	SE	WNW	NW	WNW	WNW	WNW	NNW	N	WNW	SSW	SE	ESE	E	ESE	ESE	ESE	ESE	ESE	8	N
Jul 23	ESE	E	ESE	E	ESE	ESE	ESE	SE	SSE	SSE	SE	S	S	SSW	SW	SW	SW	SSW	SSW	S	SSW	SSW	WSW	NNE	174	S
Jul 24	N	E	NE	NNW	NNE	NNE	N	N	NNW	NW	NW	NNW	NW	WNW	NW	WSW	WSW	WNW	W	SSW	SSW	SSW	SW	SW	296	WNW
Jul 25	SW	SW	SW	SSE	SSE	SSE	SSE	SW	WSW	WSW	W	WNW	NW	WNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	ESE	NE	E	289	WNW
Jul 26	ESE	E	ESE	ESE	SE	ESE	ESE	SE	SSW	SSW	SW	SW	SW	SSW	SW	N	N	N	N	N	N	N	N	N	-	-
Jul 27	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
Jul 28	N	N	N	N	N	N	N	N	N	SSW	SSW	SSW	SW	SW	WSW	SW	W	NW	N	N	NNE	NNE	NNE	NE	-	-
Jul 29	NNE	N	N	NNE	N	N	NNE	NNE	NE	NNE	ENE	ENE	NE	ENE	NE	ENE	ENE	NE	NNE	NNE	NE	NNE	NNE	N	30	NNE
Jul 30	N	N	N	N	N	N	N	N	NNE	N	NNW	NW	NW	WNW	WNW	SW	SW	SW	SSW	SW	SW	ESE	ENE	ENE	332	NNW
Jul 31	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	ENE	E	ENE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	69	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



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PEACE RIVER AREA MONITORING PROGRAM

842b Station - July 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	25.8	kph	on July 13 at hour 16	Hours in Service:	744
Maximum Daily Value:	15.4	kph	on July 9	Hours of Data:	702
Minimum Hourly Value:	0.0	kph	on July 21 at hour 21	Hours of Missing Data:	42
Minimum Daily Value:	0.4	kph	on July 22	Hours of Calibration:	0
Monthly Average:	4.2	kph		Operational Uptime:	94.4

WIND DIRECTION

Monthly Average: 228 (SW) degree

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	3.4	6.7	4.9	10.3	11.6	11.4	8.9	8.3	7.3	9.0	9.5	8.1	7.4	6.5	5.7	7.2	5.4	4.7	3.4	1.1	3.9	0.8	0.2	0.3	0.2	11.6	4.6
	E	NW	NNW	NNW	NNW	NNW	N	NNE	NE	NNE	NE	NNE	NE	NE	NE	NE	NE	E	ESE	E	W	W	E	ESE			
Jul 2	0.8	1.2	1.5	1.2	1.8	1.5	0.3	1.3	0.2	2.3	6.1	5.9	5.8	5.2	3.3	5.3	7.1	8.0	5.9	3.8	1.9	0.7	0.7	0.6	0.2	8.0	2.0
	E	E	E	E	NE	E	ENE	ENE	SE	W	WNW	WNW	NW	W	WSW	WNW	W	W	WNW	WSW	SW	S	SE	ESE			
Jul 3	2.0	3.2	2.7	2.0	2.1	2.8	2.5	5.1	5.9	7.5	7.5	6.1	4.9	5.0	7.8	6.3	2.8	4.8	7.3	1.4	1.4	2.9	3.9	5.1	1.4	7.8	1.6
	ESE	SE	SE	ESE	ESE	SE	SSE	SW	SW	SW	SW	WSW	WSW	W	W	WSW	WNW	ESE	SSE	ESE	ENE	NE	NE	NE			
Jul 4	3.4	5.7	5.6	8.7	8.7	5.5	5.1	6.0	6.3	2.5	1.4	2.9	3.1	5.5	4.7	7.2	5.9	7.4	5.7	3.3	3.1	3.7	3.1	3.8	1.4	8.7	4.5
	NE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	ESE	N	NNE	ENE	E	NE	ENE	ENE	E	ESE	NNE	NE	ENE	ESE	E			
Jul 5	1.3	2.3	2.5	4.8	5.3	6.5	5.2	4.0	3.8	2.5	6.9	6.7	5.9	6.2	4.6	8.8	5.2	5.9	10.9	2.8	4.0	5.5	2.0	2.3	1.3	10.9	1.8
	E	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	E	W	NW	E	E	SW	SW	W	W	NNE	N	ENE	ENE	ENE	ENE			
Jul 6	2.3	3.2	3.6	3.2	4.7	3.7	5.5	7.2	3.3	4.5	6.4	6.8	8.5	11.3	11.3	9.5	13.8	16.6	13.4	11.3	5.2	4.0	4.8	4.8	2.3	16.6	6.5
	E	ESE	ESE	E	E	ESE	SE	SE	E	ESE	ESE	ESE	ESE	SE	SE	SE	SSE	SSE	SSE	SSE	SE	ESE	E	E			
Jul 7	5.2	4.9	4.5	4.9	5.0	5.8	5.5	6.1	5.4	6.7	8.0	8.9	9.5	10.8	15.2	2.8	4.4	3.4	4.8	4.1	6.2	3.9	6.0	7.0	2.8	15.2	5.6
	ESE	SE	ESE	E	ESE	ESE	ESE	ESE	E	E	E	E	ESE	SE	SE	SSW	NNW	E	ESE	ESE	SE	SE	SE	SE			
Jul 8	9.4	6.6	4.1	6.2	3.2	3.4	7.9	8.0	10.2	13.0	14.3	16.6	19.2	19.0	20.0	18.6	17.9	17.0	13.2	11.1	8.9	8.9	9.9	9.8	3.2	20.0	10.8
	SSE	SSE	SSE	SE	SE	SSE	SW	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW			
Jul 9	9.7	9.0	9.2	12.6	12.6	15.7	15.2	15.4	17.3	22.1	22.7	22.7	21.1	19.9	20.5	19.5	20.3	17.7	13.0	9.5	13.9	16.0	16.6	18.0	9.0	22.7	**15.4**
	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW			
Jul 10	16.2	14.4	12.6	12.1	11.3	11.3	11.1	12.3	12.6	12.2	11.8	11.1	9.8	14.2	16.8	16.5	16.4	16.2	14.2	12.3	13.5	7.8	9.1	8.7	7.8	16.8	12.1
	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SW	WSW	WSW	W	W	W	WSW	WSW	W	WSW	SW	SW			
Jul 11	9.8	12.0	9.0	10.6	12.6	10.8	11.9	13.8	18.9	18.9	19.3	18.9	19.2	21.3	19.1	15.7	15.3	13.0	7.7	4.3	1.0	0.3	9.3	7.7	0.3	21.3	11.5
	SW	SW	SSW	SSW	SW	SSW	SSW	SW	WSW	WSW	W	W	WSW	WSW	W	W	W	W	WSW	SW	SSE	SE	W	W			
Jul 12	7.1	12.2	10.2	12.5	12.2	10.8	12.9	14.7	13.7	12.7	14.5	13.2	14.9	16.2	13.6	14.4	12.6	6.0	9.2	12.5	10.8	13.2	10.0	11.6	6.0	16.2	11.2
	SE	SSE	S	SSW	S	S	SSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSE	SSW	S	S	SSE	SSE	S	SSE			
Jul 13	5.3	7.6	9.8	8.7	10.7	8.8	6.8	9.5	14.0	16.8	18.4	25.0	21.6	22.4	22.7	20.8	**25.8**	25.0	20.9	22.3	11.7	13.0	14.5	13.9	5.3	**25.8**	14.9
	SW	SSW	S	S	SSW	SW	S	SSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW			
Jul 14	13.1	12.8	8.7	8.8	11.2	10.7	12.2	12.5	13.6	16.2	17.0	16.8	15.0	20.3	20.7	17.2	15.8	18.8	16.5	14.0	5.7	2.3	3.7	2.6	2.3	20.7	12.2
	SW	SW	SW	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	W	WSW	WSW	SSW	SW	SSE			
Jul 15	3.0	5.6	3.2	5.4	6.8	6.4	3.1	6.0	7.8	11.4	11.6	8.3	9.0	9.2	6.5	2.1	6.3	1.7	2.6	1.2	5.2	1.9	0.7	2.8	0.7	11.6	4.0
	SE	SSE	SE	SSE	SSE	SSE	S	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	W	W	W	SW	S	ESE	SE	SE			
Jul 16	4.9	1.8	3.1	11.0	7.4	4.1	7.8	10.1	12.4	11.4	11.3	16.1	16.5	16.7	17.9	15.7	15.1	14.4	13.7	11.7	6.2	0.3	1.4	2.5	0.3	17.9	8.5
	SSE	SE	S	SW	SSW	ESE	SSW	SW	SW	SW	SW	SW	SW	WSW	SW	SW	WSW	W	WSW	WSW	WNW	NW	ESE	SE				
Jul 17	2.6	3.4	3.0	4.8	6.0	5.1	6.4	9.2	11.7	13.3	16.4	16.3	16.6	15.7	16.2	15.3	13.2	12.4	9.1	9.0	9.0	7.2	9.9	10.5	2.6	16.6	8.9
	SE	SE	SE	SE	SSE	SSE	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSE	SSE	SSE	SSE			
Jul 18	9.1	10.6	9.2	8.0	8.9	10.7	9.8	11.0	13.5	14.0	12.7	15.7	16.2	15.9	14.1	15.5	14.7	14.8	11.8	12.7	11.2	11.4	11.4	13.0	8.0	16.2	11.3
	S	SSW	S	S	SSE	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	SW	SW			
Jul 19	12.0	11.4	14.3	14.5	19.7	18.8	15.8	20.2	18.6	16.6	17.4	13.6	10.5	7.0	11.6	8.6	2.8	9.6	9.5	8.9	3.2	0.5	0.7	2.4	0.5	20.2	10.0
	SSW	SW	SW	SW	WSW	WSW	WSW	W	W	WSW	W	WSW	NW	W	W	NW	SSE	WSW	WNW	WSW	W	NNE	S	SE			
Jul 20	3.3	3.8	4.8	5.9	5.3	7.2	7.4	9.2	11.0	12.1	15.6	15.9	15.9	13.6	14.9	13.1	13.3	12.8	10.0	8.7	4.9	3.6	4.2	4.9	3.3	15.9	8.8
	SW	S	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	W	W	W	W	W	W	WSW	SW	SW	SW	SW			

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PEACE RIVER AREA MONITORING PROGRAM

842b Station - July 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	25.8	kph	on July 13 at hour 16	Hours in Service:	744
Maximum Daily Value:	15.4	kph	on July 9	Hours of Data:	702
Minimum Hourly Value:	0.0	kph	on July 21 at hour 21	Hours of Missing Data:	42
Minimum Daily Value:	0.4	kph	on July 22	Hours of Calibration:	0
Monthly Average:	4.2	kph		Operational Uptime:	94.4

WIND DIRECTION

Monthly Average: 228 (SW) degree

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 21	4.2	7.5	7.8	6.4	7.1	8.5	7.1	11.2	12.3	12.1	13.0	11.7	13.1	16.3	16.5	13.9	10.8	10.4	7.6	8.4	2.7	**0.0**	0.1	0.2	**0.0**	16.5	3.4
	SSE	SSE	SSE	SSE	S	S	S	SSW	SSW	SW	WSW	W	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	ESE	ESE	W			
Jul 22	0.1	0.5	0.2	0.4	0.3	1.1	0.6	2.0	4.9	5.9	5.7	5.9	3.9	2.7	2.9	1.7	1.1	3.5	6.1	3.5	1.7	2.3	3.9	4.0	0.1	6.1	**0.4**
	W	ESE	E	ESE	ENE	E	SE	WNW	NW	WNW	WNW	WNW	NNW	N	WNW	SSW	SE	ESE	E	ESE	ESE	ESE	ESE	ESE			
Jul 23	3.2	4.8	5.2	4.9	5.5	5.9	5.9	4.5	9.0	8.9	8.2	8.6	10.0	9.5	12.5	11.1	11.5	10.6	6.5	6.9	7.7	5.3	3.6	4.3	3.2	12.5	5.2
	ESE	E	ESE	E	ESE	ESE	ESE	SE	SSE	SSE	SE	S	S	SSW	SW	SW	SW	SSW	SSW	S	SSW	SSW	WSW	NNE			
Jul 24	2.5	0.6	1.7	9.2	5.8	4.0	4.0	5.4	4.2	3.3	8.2	8.9	6.6	6.7	6.9	11.1	9.5	6.9	1.9	7.5	4.9	6.9	7.4	6.2	0.6	11.1	3.3
	N	E	NE	NNW	NNE	NNE	N	N	NNW	NW	NW	NNW	NW	WNW	NW	WSW	WSW	WNW	W	SSW	SSW	SSW	SW	SW			
Jul 25	4.6	7.5	3.1	3.3	3.4	3.3	3.0	3.9	5.8	4.9	8.5	7.4	7.7	7.8	8.1	8.0	7.1	6.5	5.8	4.5	0.8	0.2	**0.0**	0.2	**0.0**	8.5	2.8
	SW	SW	SW	SSE	SSE	SSE	SSE	SW	WSW	WSW	W	WNW	NW	WNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	ESE	NE	E			
Jul 26	0.7	0.4	0.5	1.4	2.4	2.0	2.2	1.6	3.9	6.8	8.6	6.7	6.7	7.7	8.5	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	0.4	8.6	-
	ESE	E	ESE	ESE	SE	ESE	ESE	SE	SSW	SSW	SW	SW	SW	SSW	SW	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**			
Jul 27	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	-	-	-
	N	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**			
Jul 28	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	13.7	11.4	12.9	12.1	13.0	13.2	12.3	10.2	10.3	11.2	11.5	10.0	6.9	6.2	5.0	5.0	13.7	-
	N	**N**	**N**	**N**	**N**	**N**	**N**	**N**	**N**	SSW	SSW	SSW	SW	SW	WSW	SW	W	NW	N	N	NNE	NNE	NNE	NE			
Jul 29	7.4	7.5	9.3	9.8	6.7	7.8	7.1	7.1	5.9	5.6	4.6	6.1	6.9	5.9	7.3	7.7	7.8	7.5	8.6	8.2	7.4	5.7	5.3	6.8	4.6	9.8	6.6
	NNE	N	N	NNE	N	N	NNE	NNE	NE	NNE	ENE	ENE	NE	ENE	NE	ENE	ENE	NE	NNE	NNE	NE	NNE	NNE	N			
Jul 30	5.9	5.8	7.5	7.5	4.9	6.1	6.9	7.9	9.3	8.9	9.6	8.7	7.5	5.9	4.1	3.3	6.8	3.6	4.2	5.9	0.9	0.3	2.2	1.1	0.3	9.6	3.6
	N	N	N	N	N	N	N	N	NNE	N	NNW	NW	NW	WNW	WNW	SW	SW	SW	SSW	SW	SW	ESE	ENE	ENE			
Jul 31	3.2	3.3	3.6	3.3	2.6	3.3	4.7	5.4	6.1	6.9	5.9	4.8	3.8	4.2	5.4	5.8	7.3	6.8	5.5	6.4	5.2	4.9	6.0	5.8	2.6	7.3	4.8
	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	ENE	E	ENE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	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
pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 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

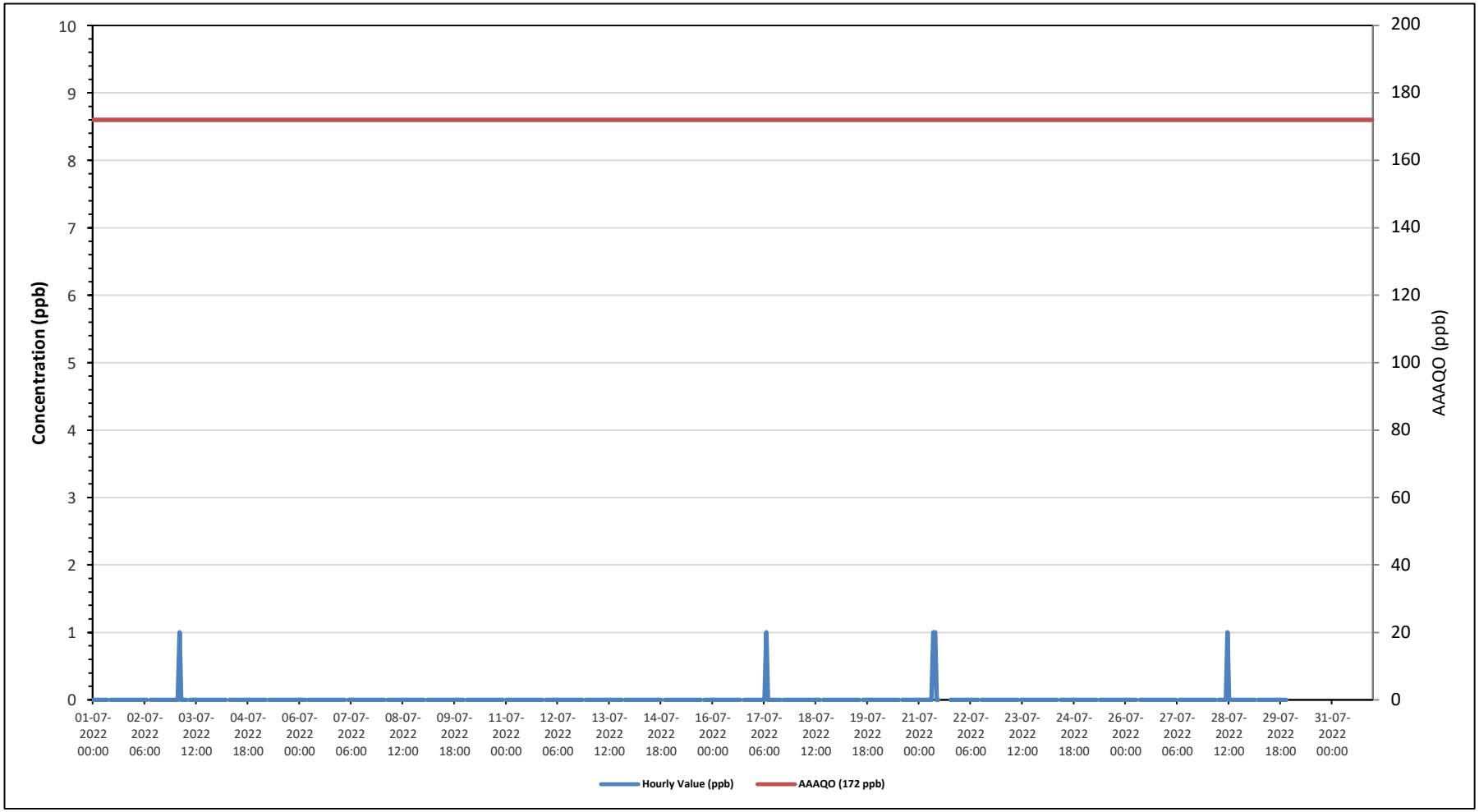
Maximum Hourly Value:	1	ppb	on July 3 at hour 2	Hours in Service:	744
Maximum Daily Value:	0.1	ppb	on July 21	Hours of Data:	659
Minimum Hourly Value:	0	ppb	on July 1 at hour 0	Hours of Missing Data:	50
Minimum Daily Value:	0.0	ppb	on July 1	Hours of Calibration:	35
Monthly Average:	0.0	ppb		Operational Uptime:	93.3

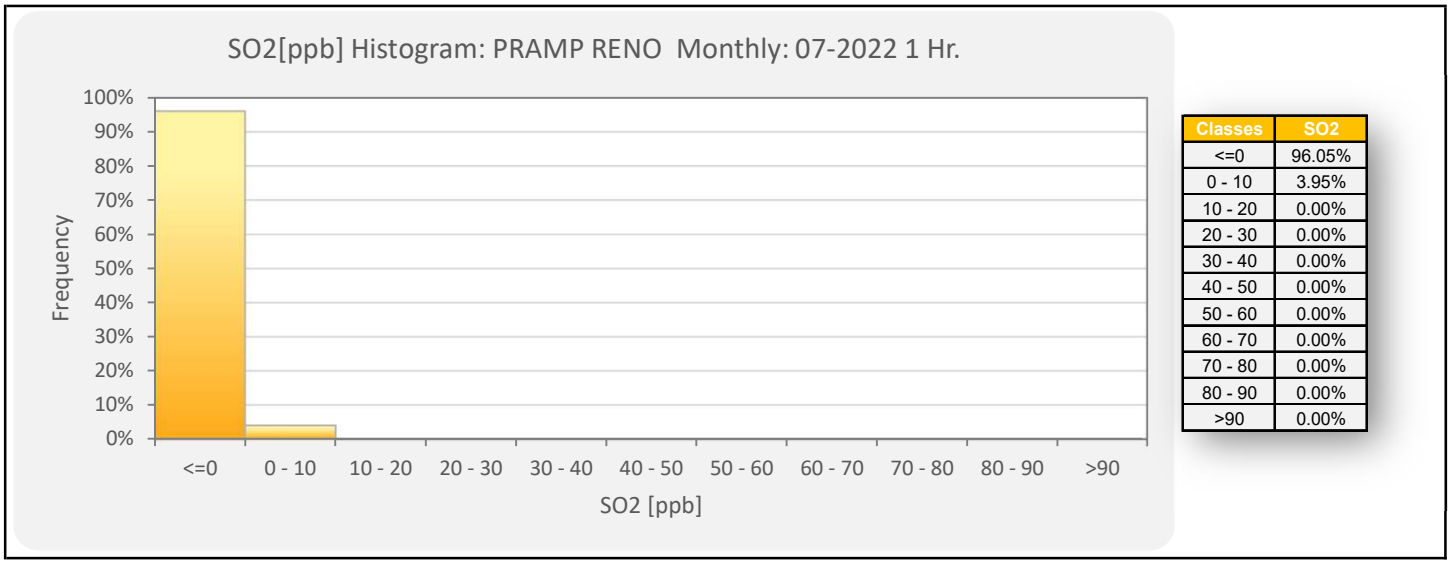
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 2	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 3	0	0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

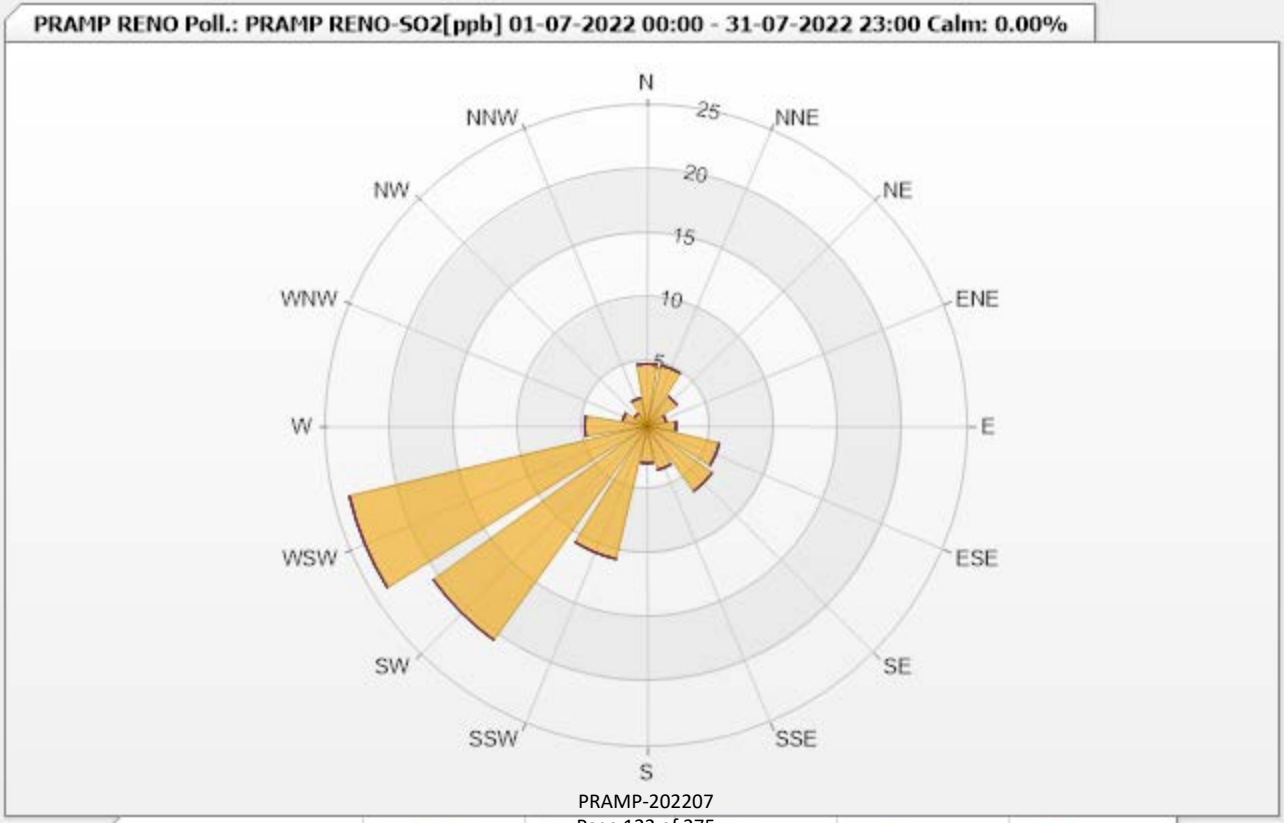




Classes	SO2
<=0	96.05%
0 - 10	3.95%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-SO2[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.58% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	4.86	0	0	0	0	4.86
NNE	4.86	0	0	0	0	4.86
NE	2.88	0	0	0	0	2.88
ENE	1.52	0	0	0	0	1.52
E	2.28	0	0	0	0	2.28
ESE	5.77	0	0	0	0	5.77
SE	6.22	0	0	0	0	6.22
SSE	3.49	0	0	0	0	3.49
S	2.88	0	0	0	0	2.88
SSW	10.62	0	0	0	0	10.62
SW	20.49	0	0	0	0	20.49
WSW	23.82	0	0	0	0	23.82
W	4.86	0	0	0	0	4.86
WNW	1.97	0	0	0	0	1.97
NW	1.21	0	0	0	0	1.21
NNW	2.28	0	0	0	0	2.28
Summary	100	0	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-SO2[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
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 - July 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

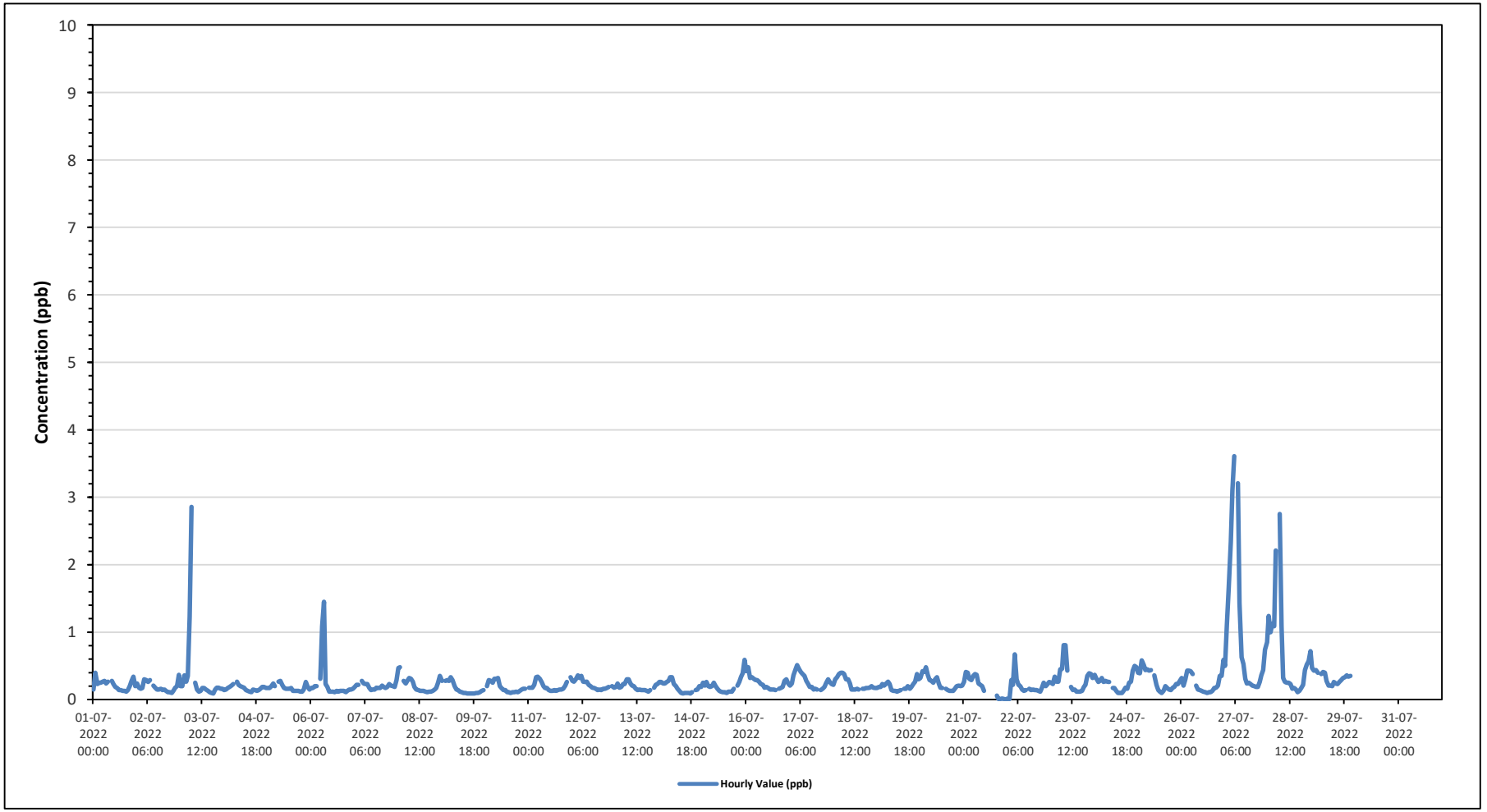
Maximum Hourly Value:	3.61	ppb	on July 27 at hour 5	Hours in Service:	744
Maximum Daily Value:	0.98	ppb	on July 27	Hours of Data:	659
Minimum Hourly Value:	0.00	ppb	on July 21 at hour 23	Hours of Missing Data:	50
Minimum Daily Value:	0.16	ppb	on July 9	Hours of Calibration:	35
Monthly Average:	0.27	ppb		Operational Uptime:	93.3

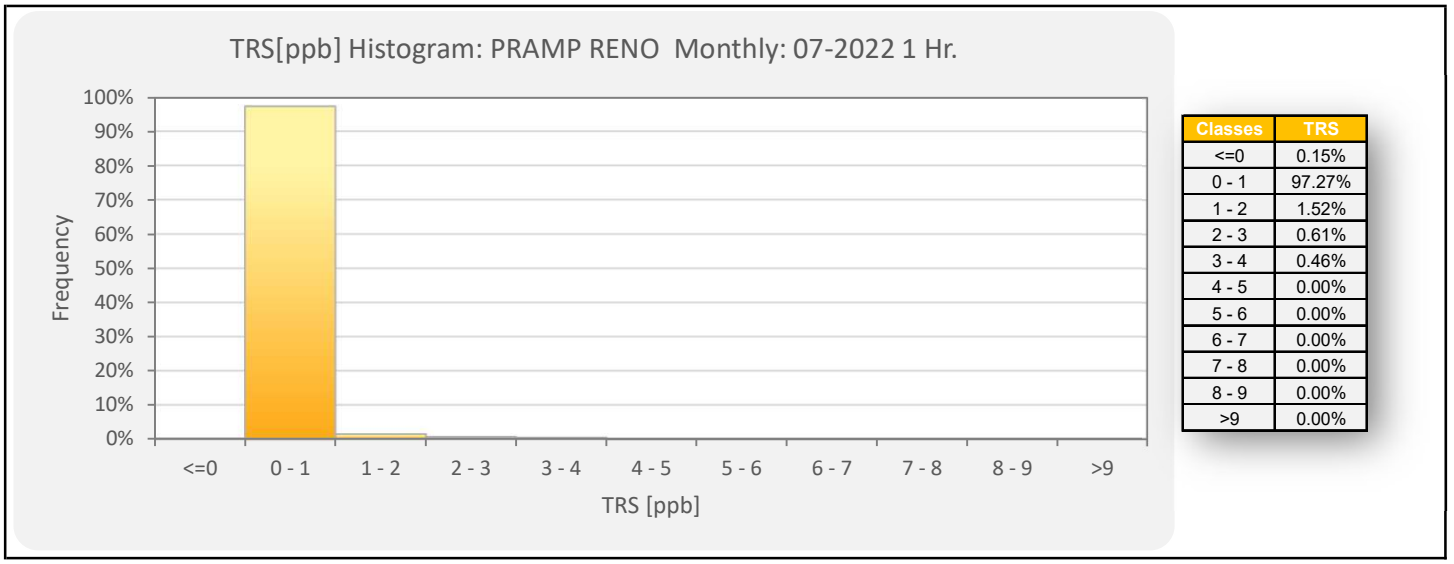
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	0.15	0.4	0.23	0.25	0.25	0.27	0.28	0.24	0.27	S	0.28	0.23	0.19	0.17	0.14	0.14	0.13	0.13	0.12	0.14	0.2	0.28	0.34	0.2	0.12	0.40	0.22
Jul 2	0.24	0.18	0.16	0.17	0.3	0.29	0.26	0.29	S	0.21	0.18	0.15	0.15	0.16	0.14	0.15	0.13	0.11	0.11	0.1	0.13	0.18	0.2	0.37	0.10	0.37	0.19
Jul 3	0.2	0.2	0.36	0.27	0.35	1.23	2.86	S	0.25	0.15	0.12	0.13	0.17	0.17	0.15	0.13	0.11	0.1	0.09	0.15	0.18	0.18	0.16	0.16	0.09	2.86	0.34
Jul 4	0.14	0.15	0.17	0.19	0.21	0.23	S	0.27	0.22	0.2	0.19	0.18	0.14	0.13	0.12	0.11	0.15	0.14	0.13	0.14	0.16	0.19	0.19	0.17	0.11	0.27	0.17
Jul 5	0.17	0.17	0.2	0.24	0.2	S	0.27	0.28	0.22	0.17	0.16	0.16	0.16	0.17	0.13	0.13	0.13	0.13	0.12	0.12	0.15	0.26	0.19	0.15	0.12	0.28	0.18
Jul 6	0.17	0.17	0.2	0.2	S	0.31	1.09	1.45	0.23	0.19	0.12	0.12	0.12	0.11	0.13	0.12	0.13	0.13	0.13	0.11	0.13	0.15	0.15	0.16	0.11	1.45	0.25
Jul 7	0.19	0.22	0.22	S	0.28	0.24	0.23	0.23	0.18	0.14	0.15	0.15	0.18	0.17	0.17	0.21	0.19	0.17	0.19	0.23	0.21	0.2	0.19	0.29	0.14	0.29	0.20
Jul 8	0.47	0.48	S	0.28	0.24	0.28	0.32	0.31	0.27	0.19	0.15	0.14	0.13	0.13	0.13	0.12	0.11	0.12	0.12	0.13	0.15	0.17	0.25	0.35	0.11	0.48	0.22
Jul 9	0.28	S	0.28	0.29	0.28	0.33	0.29	0.2	0.15	0.14	0.12	0.11	0.1	0.1	0.09	0.09	0.09	0.09	0.09	0.1	0.1	0.11	0.13	0.14	0.09	0.33	0.16
Jul 10	S	0.2	0.29	0.28	0.25	0.31	0.31	0.32	0.2	0.17	0.14	0.14	0.11	0.11	0.1	0.11	0.11	0.12	0.11	0.13	0.15	0.16	0.16	S	0.10	0.32	0.18
Jul 11	0.18	0.18	0.18	0.22	0.33	0.34	0.31	0.26	0.2	0.17	0.17	0.14	0.13	0.13	0.14	0.13	0.14	0.15	0.15	0.16	0.21	0.26	S	0.33	0.13	0.34	0.20
Jul 12	0.28	0.27	0.3	0.36	0.32	0.35	0.27	0.26	0.27	0.22	0.2	0.18	0.17	0.16	0.14	0.15	0.14	0.16	0.16	0.17	0.19	S	0.2	0.18	0.14	0.36	0.22
Jul 13	0.19	0.24	0.18	0.19	0.23	0.23	0.3	0.3	0.24	0.21	0.2	0.16	0.14	0.15	0.14	0.14	0.14	0.13	0.12	0.14	S	0.18	0.22	0.23	0.12	0.30	0.19
Jul 14	0.26	0.26	0.24	0.24	0.26	0.28	0.33	0.33	0.23	0.2	0.16	0.13	0.1	0.09	0.1	0.1	0.1	0.09	0.11	S	0.14	0.15	0.2	0.19	0.09	0.33	0.19
Jul 15	0.25	0.21	0.26	0.2	0.19	0.2	0.25	0.2	0.16	0.13	0.12	0.11	0.11	0.1	0.12	0.12	0.12	0.16	S	0.21	0.26	0.34	0.39	0.59	0.10	0.59	0.21
Jul 16	0.42	0.48	0.32	0.33	0.31	0.29	0.29	0.27	0.23	0.22	0.18	0.19	0.17	0.15	0.15	0.15	0.14	S	0.16	0.17	0.19	0.28	0.3	0.24	0.14	0.48	0.24
Jul 17	0.21	0.24	0.36	0.44	0.51	0.45	0.41	0.38	0.35	0.28	0.24	0.19	0.19	0.15	0.16	0.15	S	0.14	0.16	0.19	0.25	0.3	0.26	0.23	0.14	0.51	0.27
Jul 18	0.22	0.3	0.33	0.38	0.4	0.4	0.38	0.3	0.3	0.24	0.15	0.15	0.15	0.16	0.15	S	0.16	0.16	0.17	0.17	0.18	0.2	0.18	0.17	0.15	0.40	0.23
Jul 19	0.17	0.19	0.19	0.23	0.21	0.24	0.27	0.23	0.14	0.13	0.13	0.12	0.13	0.14	S	0.16	0.16	0.2	0.16	0.19	0.23	0.27	0.38	0.3	0.12	0.38	0.20
Jul 20	0.32	0.42	0.41	0.48	0.37	0.29	0.28	0.25	0.3	0.33	0.24	0.18	0.17	S	0.16	0.14	0.13	0.13	0.13	0.16	0.2	0.21	0.2	0.21	0.13	0.48	0.25
Jul 21	0.26	0.41	0.4	0.31	0.29	0.35	0.38	0.37	0.24	0.22	0.2	0.13	S	C	C	C	C	C	0.06	0.01	0.01	0.02	0.01	0	**0.00**	0.41	0.20
Jul 22	0.02	0.01	0.29	0.22	0.67	0.3	0.22	0.2	0.15	0.13	0.14	S	0.16	0.14	0.15	0.14	0.14	0.13	0.12	0.17	0.25	0.2	0.23	0.26	0.01	0.67	0.19
Jul 23	0.25	0.23	0.34	0.27	0.27	0.45	0.46	0.81	0.81	0.43	S	0.19	0.14	0.15	0.12	0.12	0.12	0.13	0.19	0.22	0.35	0.39	0.38	0.32	0.12	0.81	0.31
Jul 24	0.37	0.31	0.26	0.28	0.32	0.26	0.28	0.27	0.26	S	0.17	0.17	0.13	0.1	0.1	0.1	0.13	0.18	0.16	0.25	0.27	0.43	0.5	0.48	0.10	0.50	0.25
Jul 25	0.4	0.39	0.58	0.51	0.44	0.45	0.43	0.44	S	0.36	0.22	0.14	0.12	0.1	0.13	0.2	0.17	0.15	0.14	0.18	0.19	0.23	0.23	0.28	0.10	0.58	0.28
Jul 26	0.32	0.21	0.3	0.43	0.43	0.42	0.38	S	0.21	0.15	0.14	0.13	0.12	0.11	0.1	0.11	0.11	0.13	0.17	0.18	0.21	0.35	0.35	0.59	0.10	0.59	0.25
Jul 27	0.5	1.11	1.66	2.34	3.1	**3.61**	S	3.21	1.43	0.63	0.53	0.31	0.24	0.25	0.23	0.21	0.2	0.19	0.19	0.26	0.36	0.44	0.74	0.85	0.19	**3.61**	**0.98**
Jul 28	1.24	1	1.13	1.09	2.21	S	2.75	1.08	0.32	0.26	0.25	0.25	0.23	0.16	0.17	0.15	0.11	0.13	0.17	0.22	0.44	0.52	0.57	0.72	0.11	2.75	0.66
Jul 29	0.47	0.43	0.44	0.4	S	0.38	0.41	0.4	0.28	0.21	0.21	0.2	0.26	0.24	0.23	0.26	0.29	0.32	0.33	0.36	0.34	0.35	P	P	0.20	0.47	0.32
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Diurnal Maximum	1.24	1.11	1.66	2.34	3.10	3.61	2.86	3.21	1.43	0.63	0.53	0.31	0.26	0.25	0.23	0.26	0.29	0.32	0.33	0.36	0.44	0.52	0.74	0.85			
Diurnal Average	0.30	0.32	0.37	0.40	0.49	0.47	0.53	0.49	0.30	0.23	0.19	0.16	0.15	0.14	0.14	0.14	0.14	0.15	0.15	0.17	0.21	0.25	0.27	0.30			

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

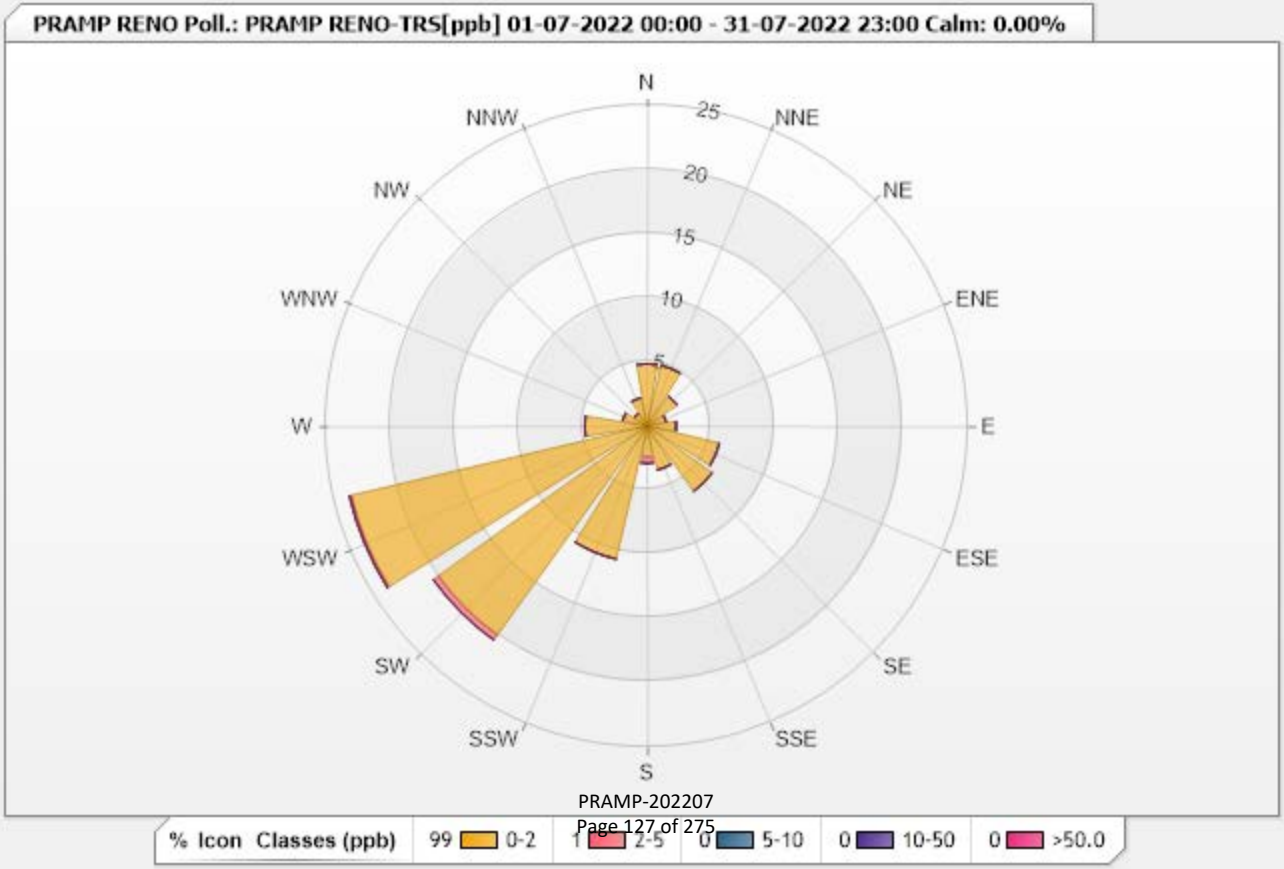




Classes	TRS
<=0	0.15%
0 - 1	97.27%
1 - 2	1.52%
2 - 3	0.61%
3 - 4	0.46%
4 - 5	0.00%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-TRS[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.58% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	4.86	0	0	0	0	4.86
NNE	4.86	0	0	0	0	4.86
NE	2.88	0	0	0	0	2.88
ENE	1.52	0	0	0	0	1.52
E	2.28	0	0	0	0	2.28
ESE	5.77	0	0	0	0	5.77
SE	6.22	0	0	0	0	6.22
SSE	3.49	0	0	0	0	3.49
S	2.43	0.46	0	0	0	2.89
SSW	10.62	0	0	0	0	10.62
SW	20.03	0.46	0	0	0	20.49
WSW	23.67	0.15	0	0	0	23.82
W	4.86	0	0	0	0	4.86
WNW	1.97	0	0	0	0	1.97
NW	1.21	0	0	0	0	1.21
NNW	2.28	0	0	0	0	2.28
Summary	98.95	1.07	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-TRS[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (ppb)
99 0-2
1 2-5
0 5-10
0 10-50
0 >50.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

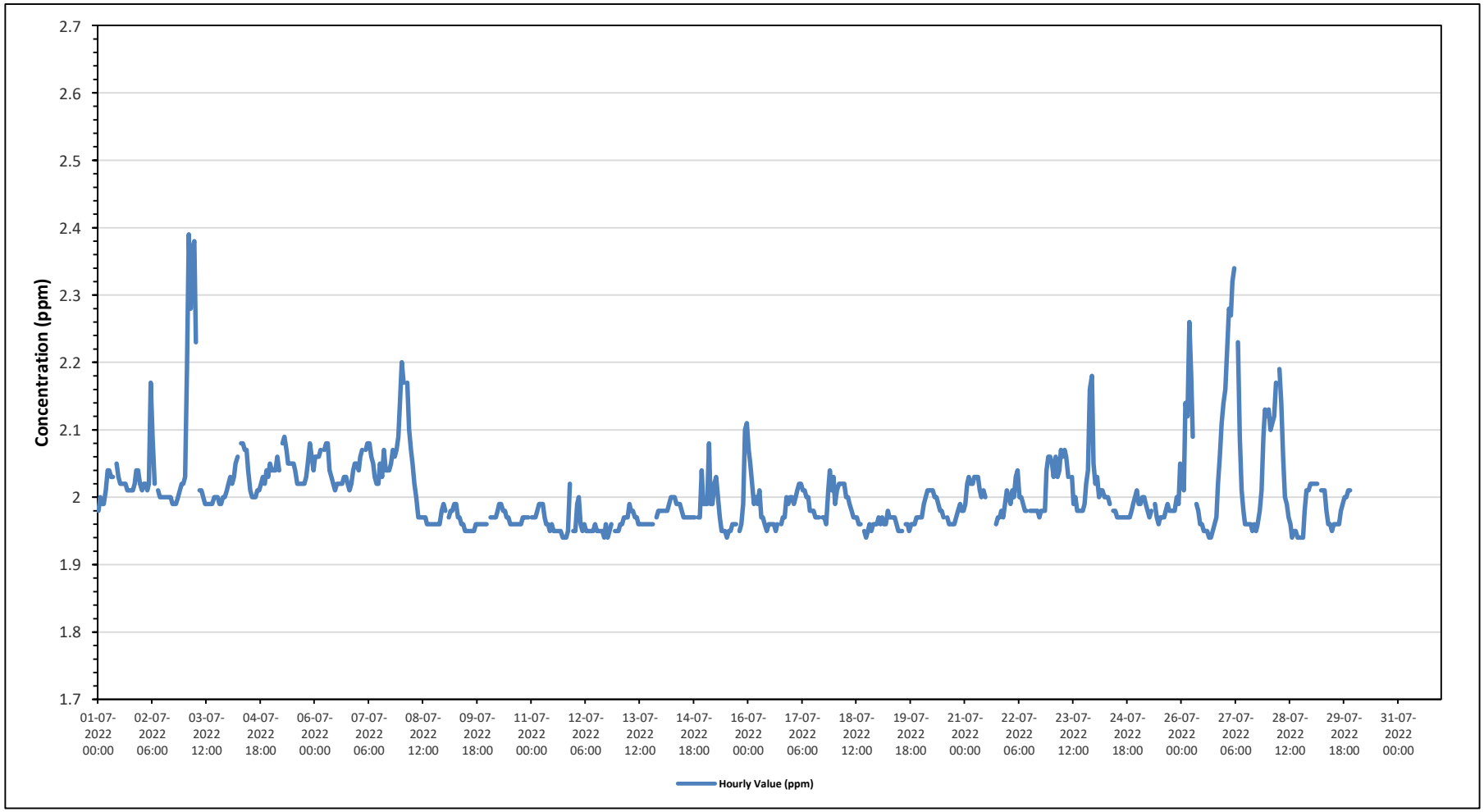
Maximum Hourly Value:	2.39	ppm	on July 3 at hour 2	Hours in Service:	744
Maximum Daily Value:	2.08	ppm	on July 27	Hours of Data:	660
Minimum Hourly Value:	1.94	ppm	on July 11 at hour 17	Hours of Missing Data:	50
Minimum Daily Value:	1.96	ppm	on July 12	Hours of Calibration:	34
Monthly Average:	2.00	ppm		Operational Uptime:	93.3

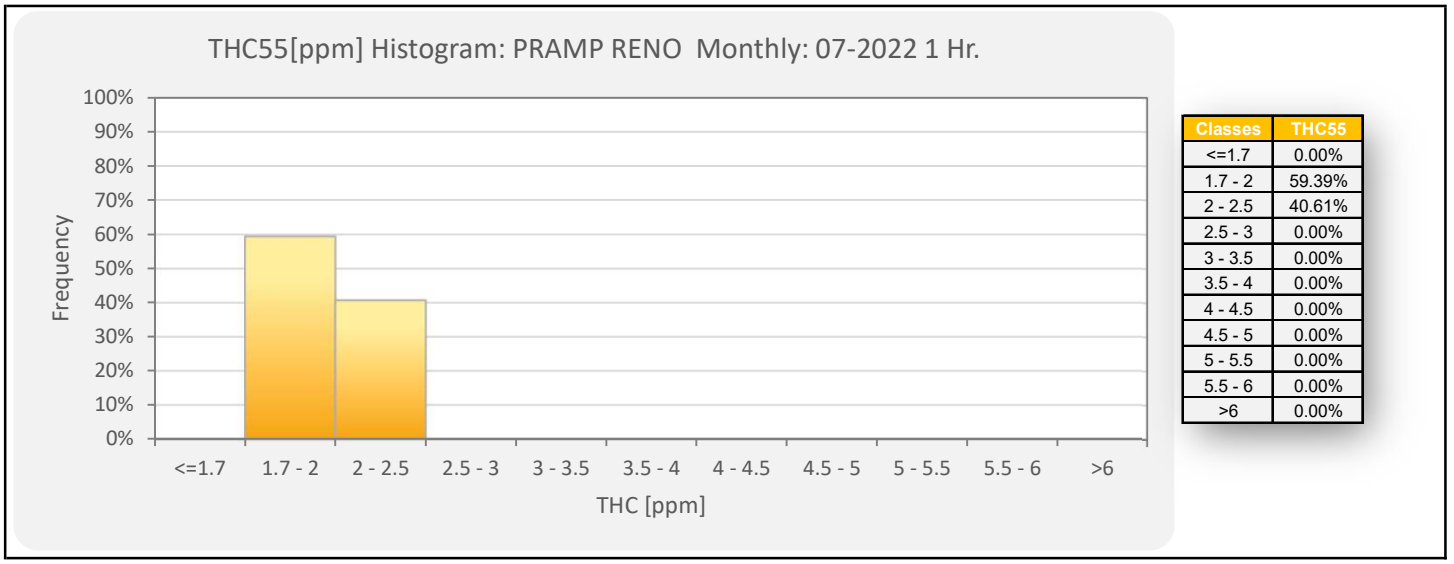
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	1.98	2.00	1.99	1.99	2.01	2.04	2.04	2.03	2.03	S	2.05	2.03	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.02	2.04	2.04	2.02	1.98	2.05	2.02
Jul 2	2.01	2.02	2.02	2.01	2.02	2.17	2.09	2.02	S	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99	2.00	2.01	2.02	2.02	1.99	2.17	2.02
Jul 3	2.03	2.19	**2.39**	2.28	2.37	2.38	2.23	S	2.01	2.01	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	1.99	1.99	2.00	2.00	2.01	1.99	**2.39**	2.08
Jul 4	2.02	2.03	2.02	2.03	2.05	2.06	S	2.08	2.08	2.07	2.07	2.04	2.01	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.02	2.04	2.03	2.05	2.00	2.08	2.03
Jul 5	2.04	2.04	2.04	2.06	2.04	S	2.08	2.09	2.07	2.05	2.05	2.05	2.05	2.04	2.02	2.02	2.02	2.02	2.02	2.03	2.05	2.08	2.06	2.04	2.02	2.09	2.05
Jul 6	2.06	2.06	2.06	2.07	S	2.07	2.08	2.08	2.04	2.03	2.02	2.01	2.02	2.02	2.02	2.02	2.03	2.03	2.02	2.01	2.02	2.04	2.05	2.05	2.01	2.08	2.04
Jul 7	2.04	2.06	2.07	S	2.07	2.08	2.08	2.06	2.05	2.03	2.02	2.02	2.05	2.03	2.07	2.04	2.04	2.04	2.05	2.07	2.06	2.07	2.09	2.14	2.02	2.14	2.06
Jul 8	2.20	2.17	S	2.17	2.10	2.07	2.05	2.02	2.00	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.98	1.99	1.96	2.20	2.01
Jul 9	1.98	S	1.97	1.98	1.98	1.99	1.99	1.97	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.99	1.96
Jul 10	S	1.97	1.97	1.97	1.97	1.98	1.99	1.99	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	S	1.96	1.99	1.97
Jul 11	1.97	1.97	1.97	1.98	1.99	1.99	1.99	1.97	1.96	1.96	1.95	1.96	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.95	2.02	S	1.95	**1.94**	2.02	1.96
Jul 12	1.95	1.99	2.00	1.96	1.95	1.96	1.95	1.95	1.95	1.95	1.95	1.96	1.95	1.95	1.95	1.95	1.94	1.96	1.94	1.95	1.96	S	1.95	1.95	**1.94**	2.00	1.96
Jul 13	1.95	1.96	1.96	1.97	1.97	1.97	1.99	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	S	1.97	1.98	1.98	1.95	1.99	1.97
Jul 14	1.98	1.98	1.98	1.98	1.99	2.00	2.00	2.00	1.99	1.99	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	S	1.97	1.97	2.04	1.99	1.97	2.04	1.98
Jul 15	1.99	1.99	2.08	1.99	1.99	2.02	2.03	2.00	1.97	1.95	1.95	1.95	1.94	1.95	1.95	1.96	1.96	1.96	S	1.95	1.96	1.99	2.10	2.11	**1.94**	2.11	1.99
Jul 16	2.07	2.05	2.02	1.99	2.00	1.99	2.01	1.97	1.97	1.96	1.95	1.96	1.96	1.96	1.96	1.95	1.96	S	1.96	1.97	1.97	2.00	1.99	2.00	1.95	2.07	1.98
Jul 17	2.00	1.99	2.00	2.01	2.02	2.02	2.01	2.01	2.00	2.00	1.98	1.98	1.98	1.97	1.97	1.97	S	1.97	1.97	1.96	2.01	2.04	2.01	2.03	1.96	2.04	2.00
Jul 18	1.99	2.01	2.02	2.02	2.02	2.02	2.00	2.00	1.99	1.98	1.97	1.97	1.97	1.96	1.96	S	1.95	1.94	1.95	1.96	1.95	1.96	1.96	1.96	**1.94**	2.02	1.98
Jul 19	1.97	1.96	1.97	1.96	1.96	1.98	1.97	1.97	1.97	1.97	1.96	1.95	1.95	1.95	S	1.96	1.96	1.95	1.96	1.96	1.96	1.97	1.97	1.97	1.95	1.98	1.96
Jul 20	1.97	1.99	2.00	2.01	2.01	2.01	2.01	2.00	2.00	1.99	1.98	1.98	1.97	S	1.97	1.96	1.96	1.96	1.96	1.97	1.98	1.99	1.98	1.98	1.96	2.01	1.98
Jul 21	1.99	2.02	2.03	2.02	2.02	2.03	2.03	2.03	2.01	2.00	2.01	2.00	S	C	C	C	C	1.96	1.97	1.97	1.98	1.97	1.99	2.01	1.96	2.03	2.00
Jul 22	2.00	1.99	2.01	2.00	2.03	2.04	2.00	2.00	1.99	1.98	1.98	S	1.98	1.98	1.98	1.98	1.98	1.97	1.98	1.98	1.98	2.04	2.06	2.06	1.97	2.06	2.00
Jul 23	2.05	2.03	2.06	2.03	2.04	2.07	2.06	2.07	2.06	2.03	S	2.03	1.99	2.00	1.98	1.98	1.98	1.98	1.99	2.02	2.04	2.16	2.18	2.05	1.98	2.18	2.04
Jul 24	2.02	2.03	2.00	2.01	2.01	2.00	2.00	2.00	1.99	S	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	2.00	2.01	1.97	2.03	1.99
Jul 25	1.99	1.99	2.00	2.00	1.99	1.98	1.97	1.98	S	1.99	1.97	1.96	1.97	1.97	1.97	1.98	1.99	1.98	1.98	1.98	1.98	2.00	1.99	2.05	1.96	2.05	1.99
Jul 26	2.04	2.01	2.14	2.12	2.26	2.18	2.09	S	1.99	1.98	1.96	1.96	1.95	1.95	1.95	1.94	1.94	1.95	1.96	1.97	2.02	2.06	2.11	2.14	**1.94**	2.26	2.03
Jul 27	2.16	2.22	2.28	2.27	2.32	2.34	S	2.23	2.09	2.01	1.98	1.96	1.96	1.96	1.96	1.95	1.96	1.95	1.96	1.98	2.01	2.09	2.13	2.12	1.95	2.34	**2.08**
Jul 28	2.13	2.10	2.11	2.12	2.17	S	2.19	2.14	2.06	2.00	1.99	1.97	1.96	1.94	1.95	1.95	1.94	1.94	1.94	1.94	1.98	2.01	2.01	2.02	**1.94**	2.19	2.02
Jul 29	2.02	2.02	2.02	2.02	S	2.01	2.01	2.01	1.98	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.98	1.99	2.00	2.00	2.01	2.01	P	P	1.95	2.02	1.99
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Diurnal Maximum	2.20	2.22	2.39	2.28	2.37	2.38	2.23	2.23	2.09	2.07	2.07	2.05	2.05	2.04	2.07	2.04	2.04	2.04	2.05	2.07	2.06	2.16	2.18	2.14			
Diurnal Average	2.02	2.03	2.04	2.04	2.05	2.05	2.03	2.02	2.01	1.99	1.99	1.98	1.98	1.98	1.98	1.97	1.98	1.97	1.98	1.98	1.99	2.01	2.02	2.02			

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

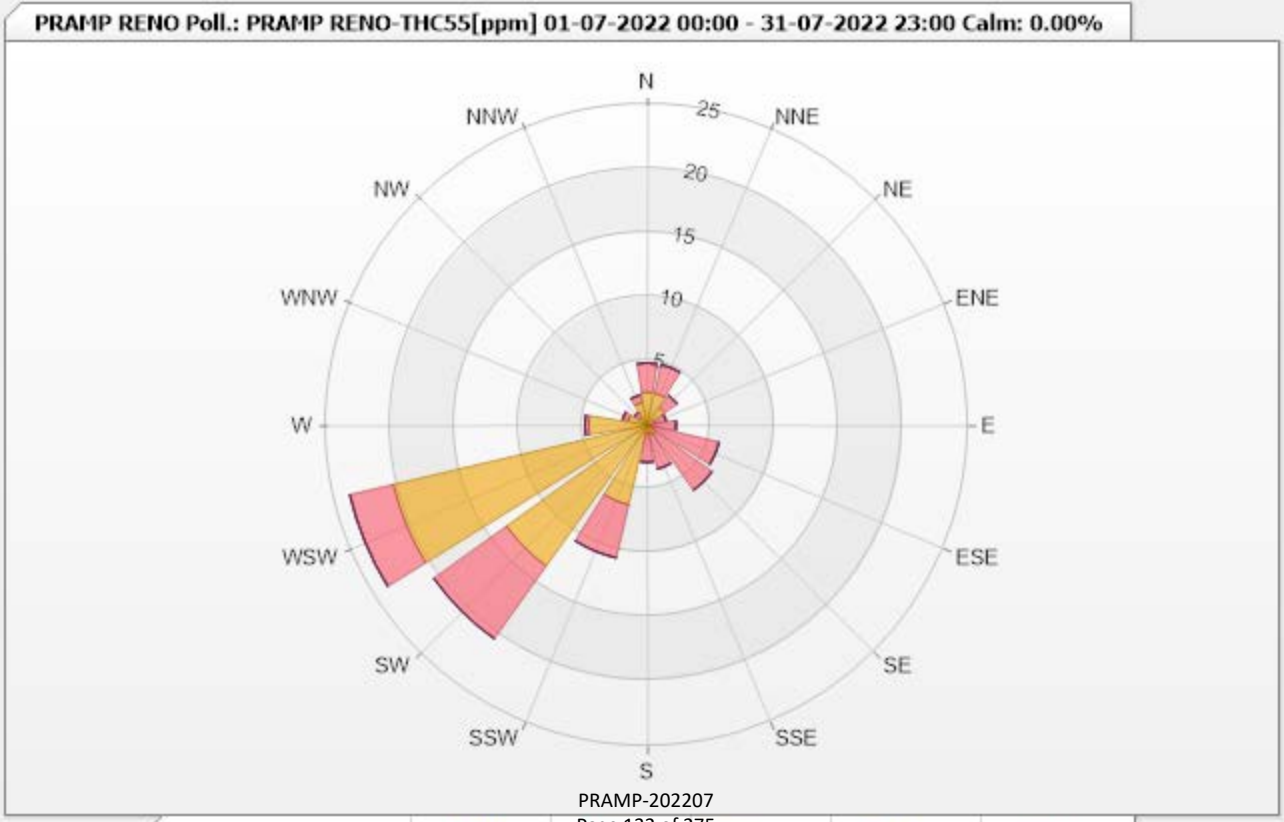




Classes	THC55
<=1.7	0.00%
1.7 - 2	59.39%
2 - 2.5	40.61%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-THC55[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.71% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	2.58	2.27	0	0	0	4.85
NNE	2.58	2.27	0	0	0	4.85
NE	1.67	1.21	0	0	0	2.88
ENE	0.61	0.91	0	0	0	1.52
E	0.3	1.97	0	0	0	2.27
ESE	0.45	5.3	0	0	0	5.75
SE	0.76	5.45	0	0	0	6.21
SSE	0.76	2.73	0	0	0	3.49
S	0.61	2.27	0	0	0	2.88
SSW	6.36	4.24	0	0	0	10.6
SW	13.48	6.97	0	0	0	20.45
WSW	20.3	3.48	0	0	0	23.78
W	4.55	0.3	0	0	0	4.85
WNW	1.52	0.45	0	0	0	1.97
NW	0.76	0.45	0	0	0	1.21
NNW	1.82	0.61	0	0	0	2.43
Summary	59.11	40.88	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-THC55[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (ppm)
59 0-2
41 2-5
0 5-10
0 10-40
0 >40.0

peace river area monitoring program
pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

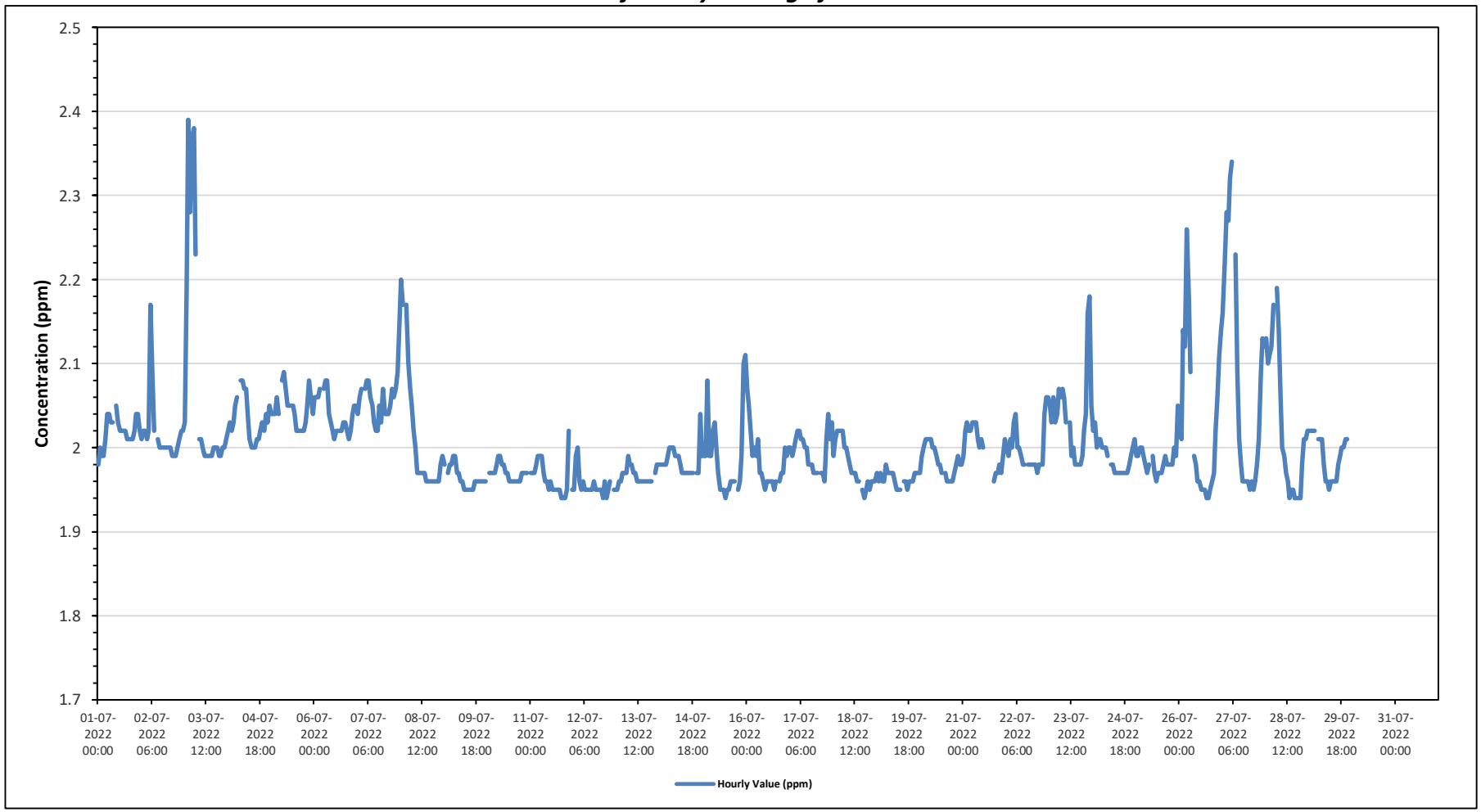
Maximum Hourly Value:	2.39	ppm	on July 3 at hour 2	Hours in Service:	744
Maximum Daily Value:	2.08	ppm	on July 27	Hours of Data:	660
Minimum Hourly Value:	1.94	ppm	on July 11 at hour 17	Hours of Missing Data:	50
Minimum Daily Value:	1.96	ppm	on July 12	Hours of Calibration:	34
Monthly Average:	2.00	ppm		Operational Uptime:	93.3

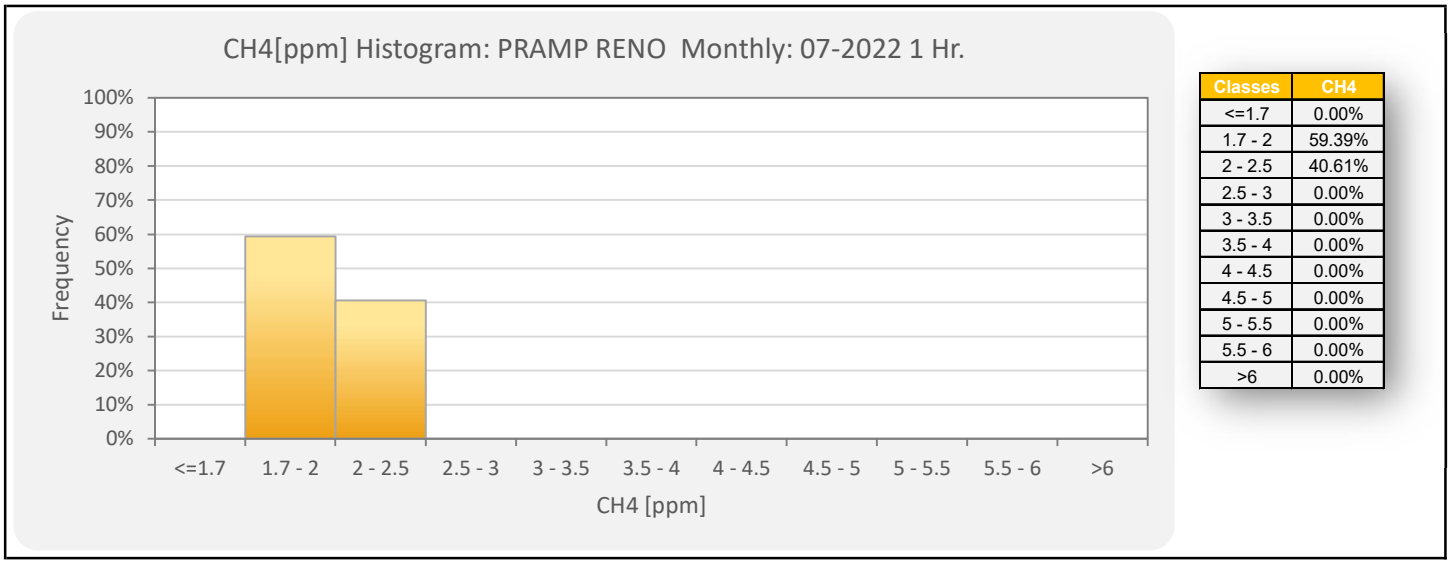
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	1.98	2.00	1.99	1.99	2.01	2.04	2.04	2.03	2.03	S	2.05	2.03	2.02	2.02	2.02	2.02	2.01	2.01	2.01	2.01	2.02	2.04	2.04	2.02	1.98	2.05	2.02
Jul 2	2.01	2.02	2.02	2.01	2.02	2.17	2.09	2.02	S	2.01	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.99	1.99	1.99	2.00	2.01	2.02	2.02	1.99	2.17	2.02
Jul 3	2.03	2.19	**2.39**	2.28	2.37	2.38	2.23	S	2.01	2.01	2.00	1.99	1.99	1.99	1.99	1.99	2.00	2.00	2.00	1.99	1.99	2.00	2.00	2.01	1.99	**2.39**	2.08
Jul 4	2.02	2.03	2.02	2.03	2.05	2.06	S	2.08	2.08	2.07	2.07	2.04	2.01	2.00	2.00	2.00	2.01	2.01	2.02	2.03	2.02	2.04	2.03	2.05	2.00	2.08	2.03
Jul 5	2.04	2.04	2.04	2.06	2.04	S	2.08	2.09	2.07	2.05	2.05	2.05	2.05	2.04	2.02	2.02	2.02	2.02	2.02	2.03	2.05	2.08	2.06	2.04	2.02	2.09	2.05
Jul 6	2.06	2.06	2.06	2.07	S	2.07	2.08	2.08	2.04	2.03	2.02	2.01	2.02	2.02	2.02	2.02	2.03	2.03	2.02	2.01	2.02	2.04	2.05	2.05	2.01	2.08	2.04
Jul 7	2.04	2.06	2.07	S	2.07	2.08	2.08	2.06	2.05	2.03	2.02	2.02	2.05	2.03	2.07	2.04	2.04	2.04	2.05	2.07	2.06	2.07	2.09	2.14	2.02	2.14	2.06
Jul 8	2.20	2.17	S	2.17	2.10	2.07	2.05	2.02	2.00	1.97	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.98	1.99	1.96	2.20	2.01
Jul 9	1.98	S	1.97	1.98	1.98	1.99	1.99	1.97	1.97	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.99	1.96
Jul 10	S	1.97	1.97	1.97	1.97	1.98	1.99	1.99	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.97	1.97	1.97	S	1.96	1.99	1.97
Jul 11	1.97	1.97	1.97	1.98	1.99	1.99	1.99	1.97	1.96	1.96	1.95	1.96	1.95	1.95	1.95	1.95	1.95	1.94	1.94	1.94	1.95	2.02	S	1.95	**1.94**	2.02	1.96
Jul 12	1.95	1.99	2.00	1.96	1.95	1.96	1.95	1.95	1.95	1.95	1.95	1.96	1.95	1.95	1.95	1.95	1.94	1.96	1.94	1.95	1.96	S	1.95	1.95	**1.94**	2.00	1.96
Jul 13	1.95	1.96	1.96	1.97	1.97	1.97	1.99	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	S	1.97	1.98	1.98	1.95	1.99	1.97
Jul 14	1.98	1.98	1.98	1.98	1.99	2.00	2.00	2.00	1.99	1.99	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	S	1.97	1.97	2.04	1.99	1.97	2.04	1.98
Jul 15	1.99	1.99	2.08	1.99	1.99	2.02	2.03	2.00	1.97	1.95	1.95	1.95	1.94	1.95	1.95	1.96	1.96	1.96	S	1.95	1.96	1.99	2.10	2.11	**1.94**	2.11	1.99
Jul 16	2.07	2.05	2.02	1.99	2.00	1.99	2.01	1.97	1.97	1.96	1.95	1.96	1.96	1.96	1.96	1.95	1.96	S	1.96	1.97	1.97	2.00	1.99	2.00	1.95	2.07	1.98
Jul 17	2.00	1.99	2.00	2.01	2.02	2.02	2.01	2.01	2.00	2.00	1.98	1.98	1.98	1.97	1.97	1.97	S	1.97	1.97	1.96	2.01	2.04	2.01	2.03	1.96	2.04	2.00
Jul 18	1.99	2.01	2.02	2.02	2.02	2.02	2.00	2.00	1.99	1.98	1.97	1.97	1.97	1.96	1.96	S	1.95	1.94	1.95	1.96	1.95	1.96	1.96	1.96	**1.94**	2.02	1.98
Jul 19	1.97	1.96	1.97	1.96	1.96	1.98	1.97	1.97	1.97	1.97	1.96	1.95	1.95	1.95	S	1.96	1.96	1.95	1.96	1.96	1.96	1.97	1.97	1.97	1.95	1.98	1.96
Jul 20	1.97	1.99	2.00	2.01	2.01	2.01	2.01	2.00	2.00	1.99	1.98	1.98	1.97	S	1.97	1.96	1.96	1.96	1.96	1.97	1.98	1.99	1.98	1.98	1.96	2.01	1.98
Jul 21	1.99	2.02	2.03	2.02	2.02	2.03	2.03	2.03	2.01	2.00	2.01	2.00	S	C	C	C	C	1.96	1.97	1.97	1.98	1.97	1.99	2.01	1.96	2.03	2.00
Jul 22	2.00	1.99	2.01	2.00	2.03	2.04	2.00	2.00	1.99	1.98	1.98	S	1.98	1.98	1.98	1.98	1.98	1.97	1.98	1.98	1.98	2.04	2.06	2.06	1.97	2.06	2.00
Jul 23	2.05	2.03	2.06	2.03	2.04	2.07	2.06	2.07	2.06	2.03	S	2.03	1.99	2.00	1.98	1.98	1.98	1.98	1.99	2.02	2.04	2.16	2.18	2.05	1.98	2.18	2.04
Jul 24	2.02	2.03	2.00	2.01	2.01	2.00	2.00	2.00	1.99	S	1.98	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	2.00	2.01	1.97	2.03	1.99
Jul 25	1.99	1.99	2.00	2.00	1.99	1.98	1.97	1.98	S	1.99	1.97	1.96	1.97	1.97	1.97	1.98	1.99	1.98	1.98	1.98	1.98	2.00	1.99	2.05	1.96	2.05	1.99
Jul 26	2.04	2.01	2.14	2.12	2.26	2.18	2.09	S	1.99	1.98	1.96	1.96	1.95	1.95	1.95	1.94	1.94	1.95	1.96	1.97	2.02	2.06	2.11	2.14	**1.94**	2.26	2.03
Jul 27	2.16	2.22	2.28	2.27	2.32	2.34	S	2.23	2.09	2.01	1.98	1.96	1.96	1.96	1.96	1.95	1.96	1.95	1.96	1.98	2.01	2.09	2.13	2.12	1.95	2.34	**2.08**
Jul 28	2.13	2.10	2.11	2.12	2.17	S	2.19	2.14	2.06	2.00	1.99	1.97	1.96	1.94	1.95	1.95	1.94	1.94	1.94	1.94	1.98	2.01	2.01	2.02	**1.94**	2.19	2.02
Jul 29	2.02	2.02	2.02	2.02	S	2.01	2.01	2.01	1.98	1.96	1.96	1.95	1.96	1.96	1.96	1.96	1.98	1.99	2.00	2.00	2.01	2.01	P	P	1.95	2.02	1.99
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Diurnal Maximum	2.20	2.22	2.39	2.28	2.37	2.38	2.23	2.23	2.09	2.07	2.07	2.05	2.05	2.04	2.07	2.04	2.04	2.04	2.05	2.07	2.06	2.16	2.18	2.14			
Diurnal Average	2.02	2.03	2.04	2.04	2.05	2.05	2.03	2.02	2.01	1.99	1.99	1.98	1.98	1.98	1.98	1.97	1.98	1.97	1.98	1.98	1.99	2.01	2.02	2.02			

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

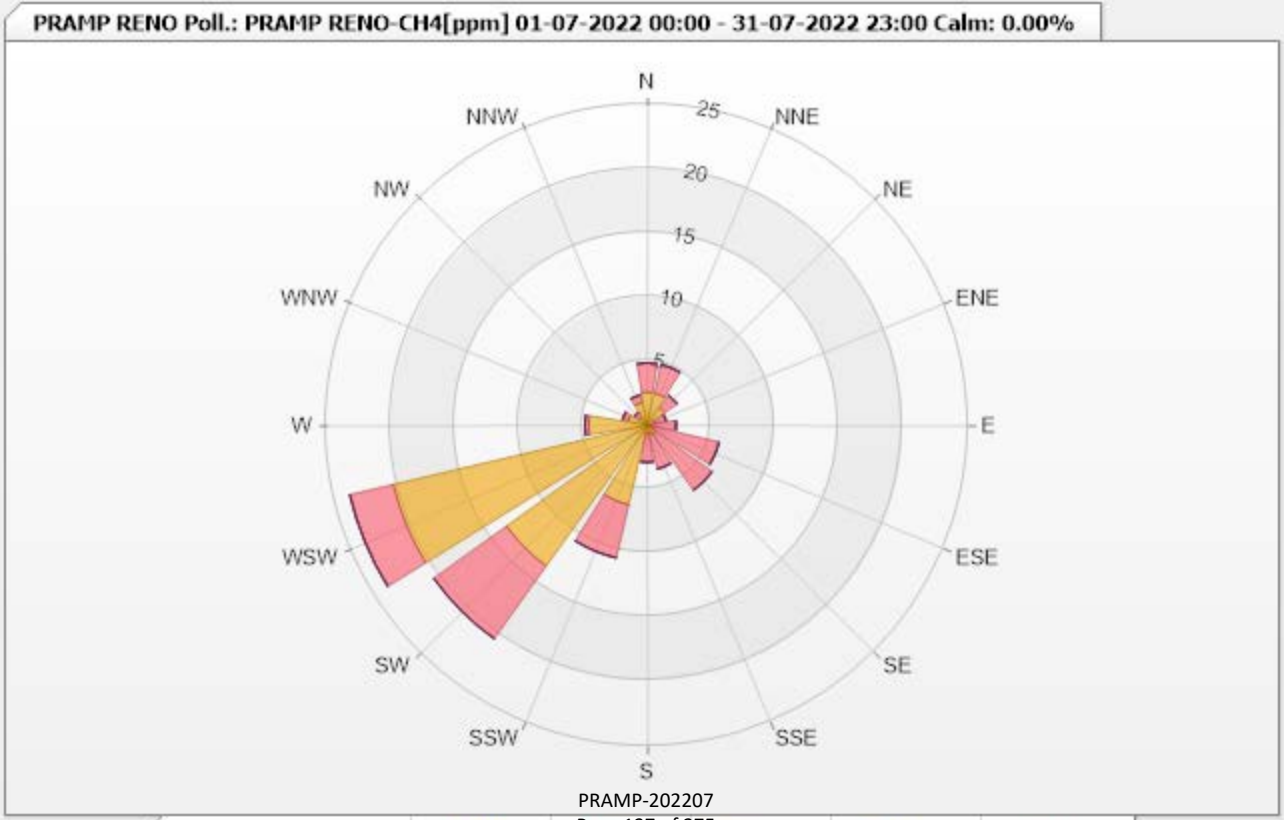




Classes	CH4
<=1.7	0.00%
1.7 - 2	59.39%
2 - 2.5	40.61%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-CH4[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.71% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	2.58	2.27	0	0	0	4.85
NNE	2.58	2.27	0	0	0	4.85
NE	1.67	1.21	0	0	0	2.88
ENE	0.61	0.91	0	0	0	1.52
E	0.3	1.97	0	0	0	2.27
ESE	0.45	5.3	0	0	0	5.75
SE	0.76	5.45	0	0	0	6.21
SSE	0.76	2.73	0	0	0	3.49
S	0.61	2.27	0	0	0	2.88
SSW	6.36	4.24	0	0	0	10.6
SW	13.48	6.97	0	0	0	20.45
WSW	20.3	3.48	0	0	0	23.78
W	4.55	0.3	0	0	0	4.85
WNW	1.52	0.45	0	0	0	1.97
NW	0.76	0.45	0	0	0	1.21
NNW	1.82	0.61	0	0	0	2.43
Summary	59.11	40.88	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-CH4[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (ppm)
59 0-2
41 2-5
0 5-10
0 10-20
0 >20.0

peace river area monitoring program
pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

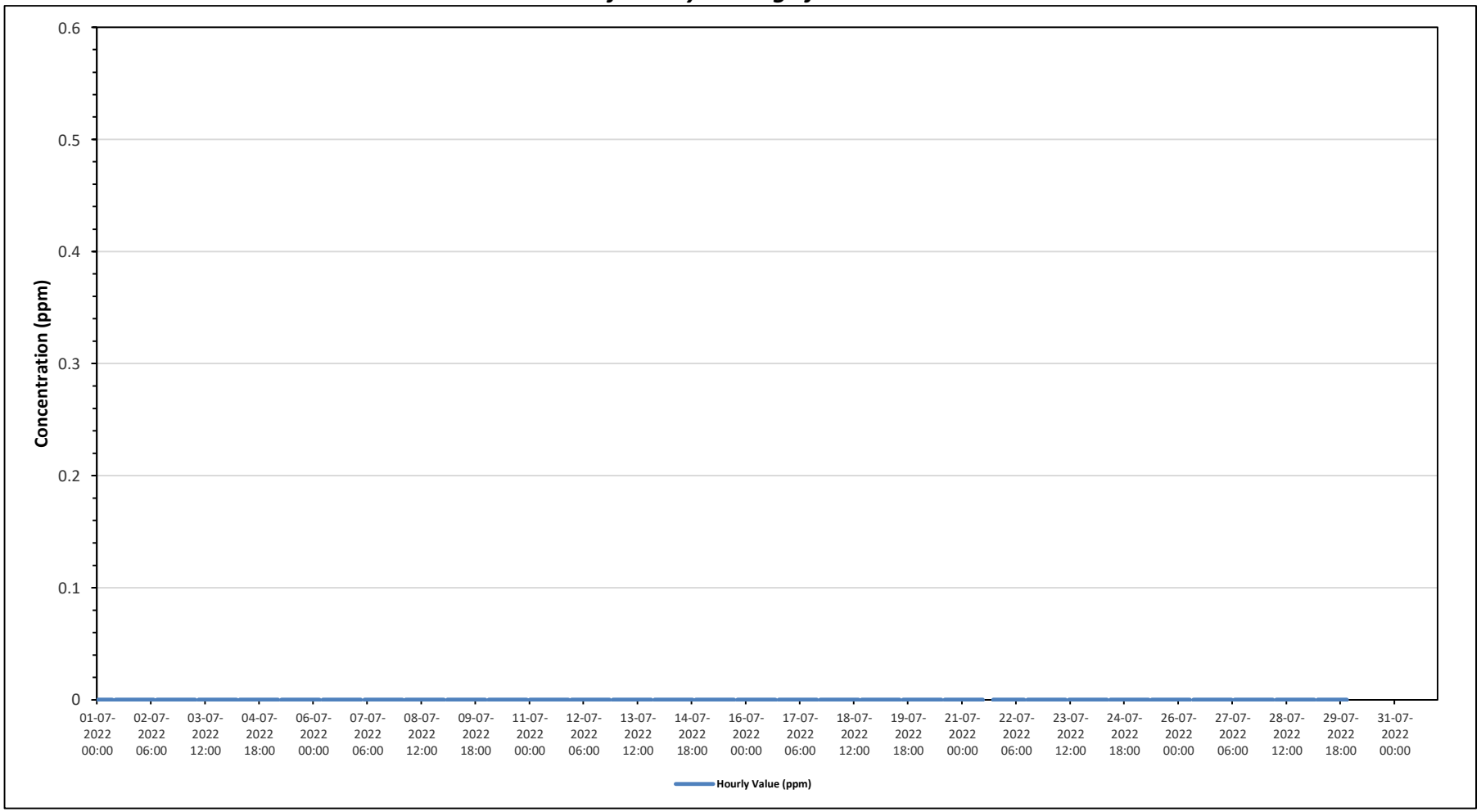
Maximum Hourly Value:	0.00	ppm	on July 1 at hour 0	Hours in Service:	744
Maximum Daily Value:	0.00	ppm	on July 1	Hours of Data:	660
Minimum Hourly Value:	0.00	ppm	on July 1 at hour 0	Hours of Missing Data:	50
Minimum Daily Value:	0.00	ppm	on July 1	Hours of Calibration:	34
Monthly Average:	0.00	ppm		Operational Uptime:	93.3

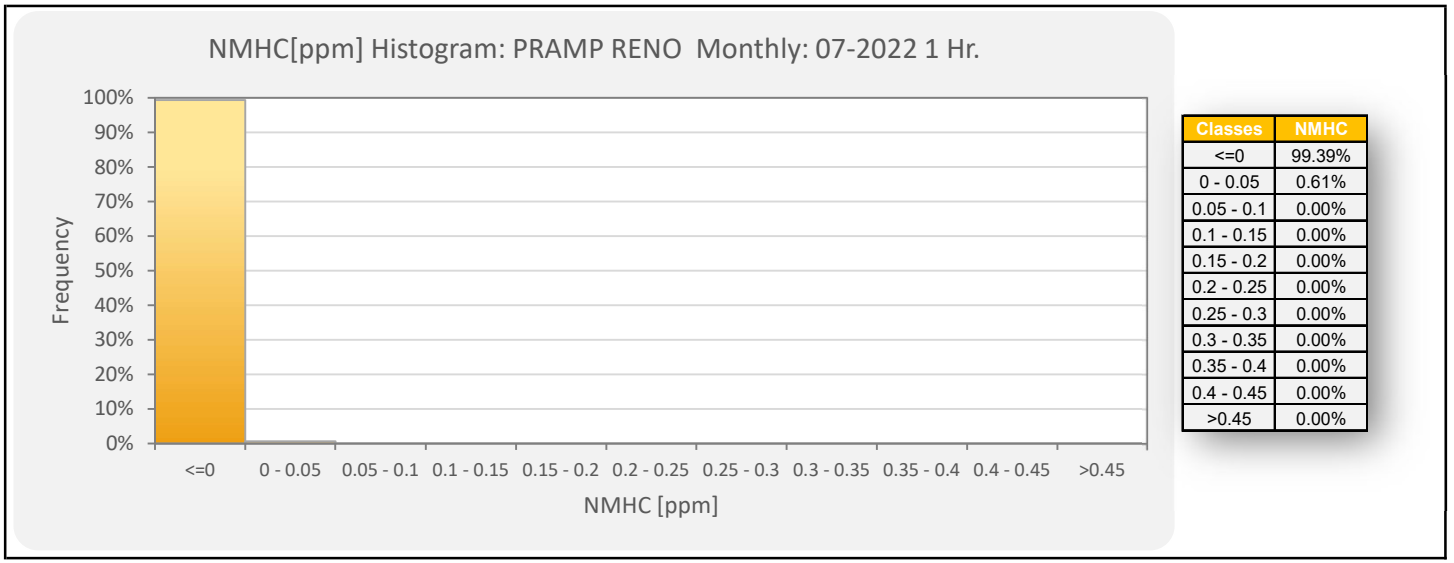
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00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

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

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

Timeseries Chart of Hourly Average for NMHC - Reno Station

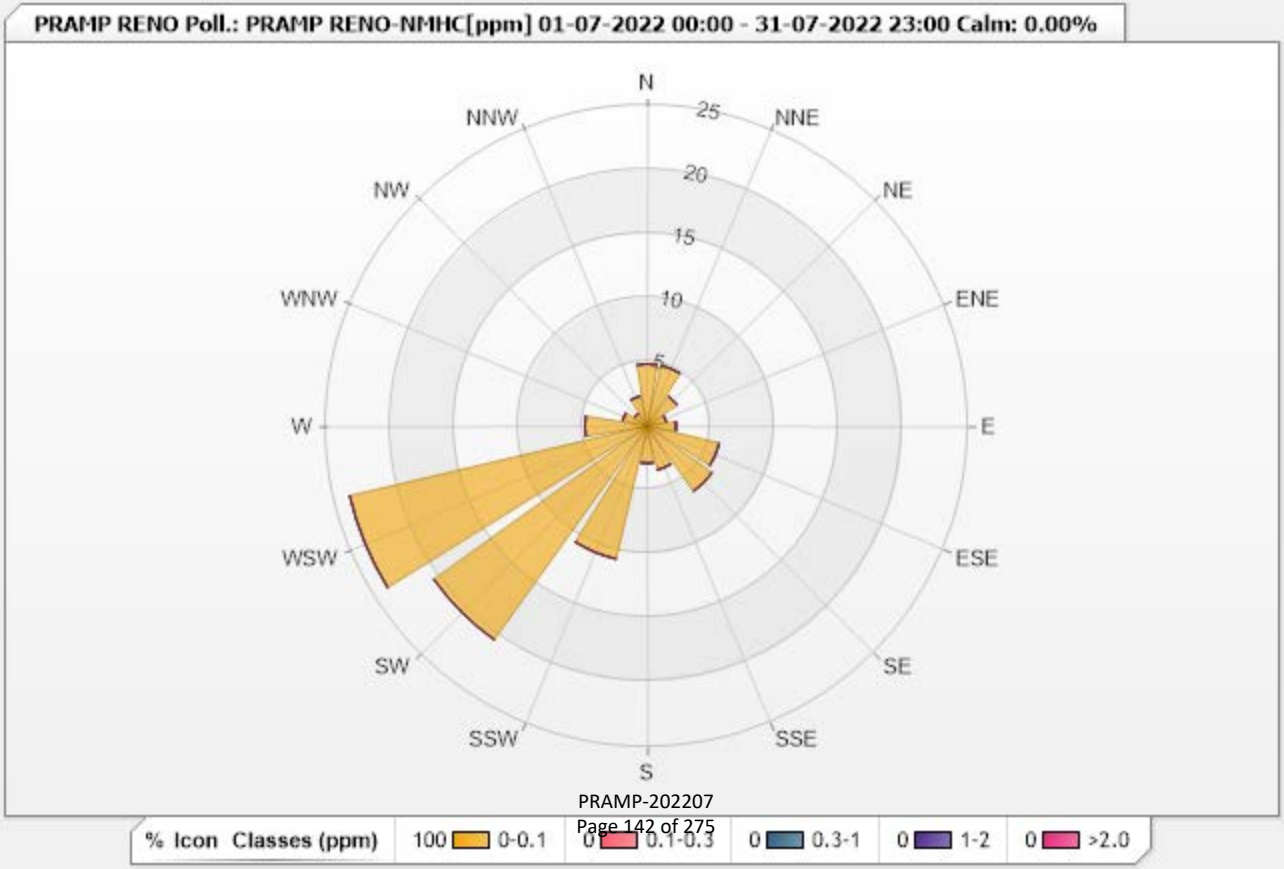




Classes	NMHC
<=0	99.39%
0 - 0.05	0.61%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: PRAMP RENO Poll.: PRAMP RENO-NMHC[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 88.71% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	4.85	0	0	0	0	4.85
NNE	4.85	0	0	0	0	4.85
NE	2.88	0	0	0	0	2.88
ENE	1.52	0	0	0	0	1.52
E	2.27	0	0	0	0	2.27
ESE	5.76	0	0	0	0	5.76
SE	6.21	0	0	0	0	6.21
SSE	3.48	0	0	0	0	3.48
S	2.88	0	0	0	0	2.88
SSW	10.61	0	0	0	0	10.61
SW	20.45	0	0	0	0	20.45
WSW	23.79	0	0	0	0	23.79
W	4.85	0	0	0	0	4.85
WNW	1.97	0	0	0	0	1.97
NW	1.21	0	0	0	0	1.21
NNW	2.42	0	0	0	0	2.42
Summary	100	0	0	0	0	100


PRAMP RENO Poll.: PRAMP RENO-NMHC[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (ppm)
100 0-0.1
0 0.1-0.3
0 0.3-1
0 1-2
0 >2.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

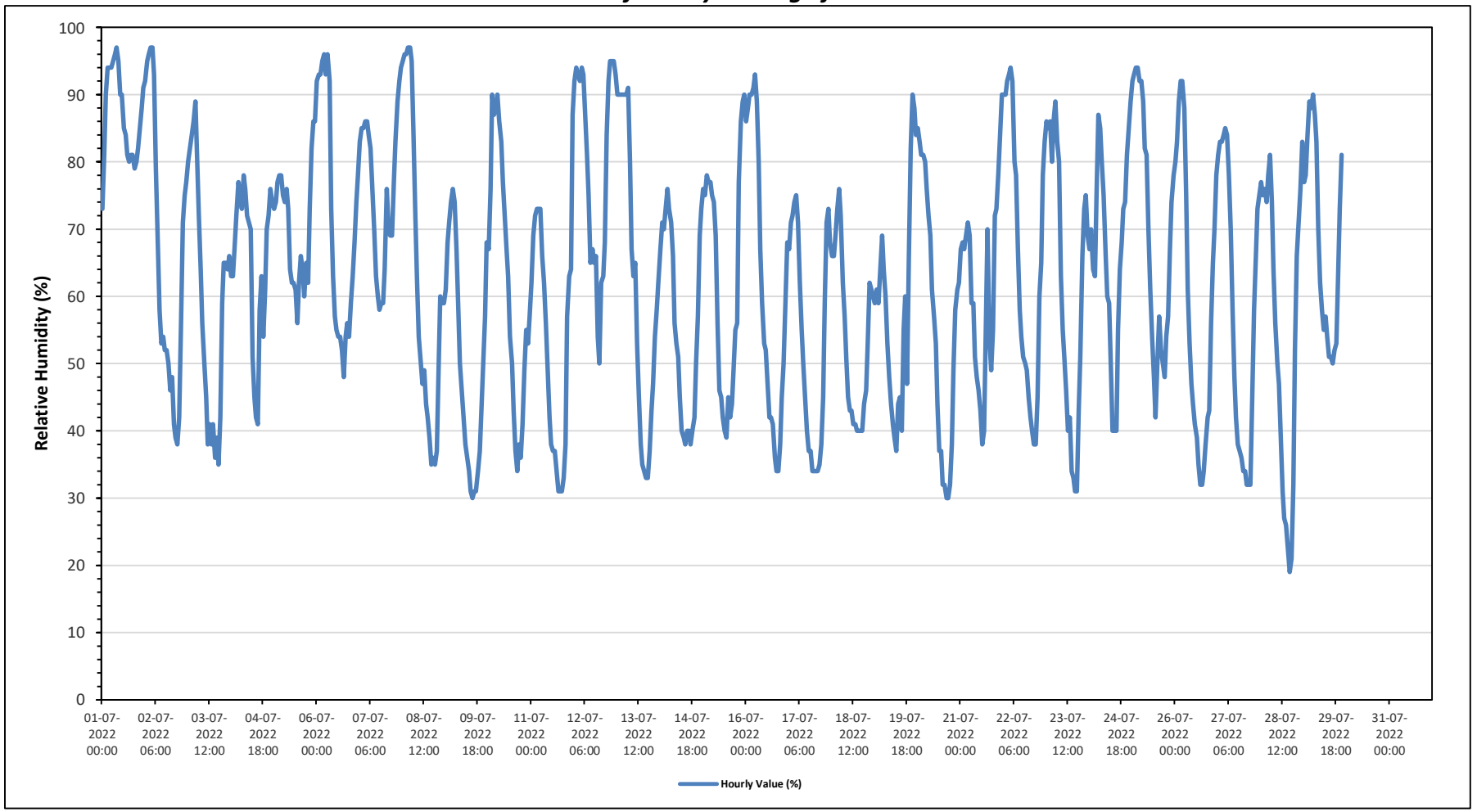
Maximum Hourly Value:	97	%	on July 1 at hour 8	Hours in Service:	744
Maximum Daily Value:	86.9	%	on July 1	Hours of Data:	694
Minimum Hourly Value:	19	%	on July 28 at hour 16	Hours of Missing Data:	50
Minimum Daily Value:	50.3	%	on July 9	Hours of Calibration:	0
Monthly Average:	63.1	%		Operational Uptime:	93.3

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
Jul 1	73	81	90	94	94	94	95	96	**97**	95	90	90	85	84	81	80	81	81	79	80	82	85	88	91	73	**97**	**86.9**
Jul 2	92	95	96	**97**	**97**	93	79	67	58	53	54	52	52	50	46	48	41	39	38	42	56	71	75	77	38	**97**	65.3
Jul 3	80	82	84	86	89	81	72	64	56	50	45	38	41	38	41	36	39	35	42	59	65	65	64	66	35	89	59.1
Jul 4	63	63	67	72	77	75	73	78	76	72	71	70	51	45	42	41	58	63	54	61	70	72	76	74	41	78	65.2
Jul 5	73	74	77	78	78	75	74	76	73	64	62	62	61	56	62	66	64	60	65	62	73	82	86	86	56	86	70.4
Jul 6	92	93	93	95	96	93	96	92	73	63	57	55	54	54	52	48	54	56	54	59	63	68	74	78	48	96	71.3
Jul 7	83	85	85	86	86	84	82	76	70	63	60	58	59	59	64	76	70	69	69	77	83	89	92	94	58	94	75.8
Jul 8	95	96	96	**97**	**97**	95	84	72	63	54	50	47	49	44	42	39	35	36	35	37	48	60	59	59	35	**97**	62.0
Jul 9	61	68	71	74	76	74	67	58	50	46	42	38	36	34	31	30	31	31	34	37	43	50	57	68	30	76	50.3
Jul 10	67	76	90	87	88	90	86	83	77	72	67	63	54	50	43	37	34	38	36	41	49	55	53	57	34	90	62.2
Jul 11	62	69	72	73	73	73	66	62	56	49	42	38	37	37	34	31	31	31	33	38	57	63	64	87	31	87	53.3
Jul 12	92	94	93	92	94	93	87	81	75	65	67	65	66	54	50	62	63	68	84	92	95	95	95	93	50	95	79.8
Jul 13	90	90	90	90	90	90	91	80	67	63	65	53	45	38	35	34	33	33	37	43	47	54	58	62	33	91	61.6
Jul 14	67	71	70	73	76	73	71	66	56	53	51	45	40	39	38	40	40	38	40	42	50	57	69	73	38	76	55.8
Jul 15	76	75	78	77	77	75	74	69	56	46	45	42	40	39	45	42	44	49	55	56	77	86	89	90	39	90	62.6
Jul 16	86	88	90	90	91	93	89	80	67	59	53	52	47	42	42	41	36	34	34	38	45	50	59	68	34	93	61.4
Jul 17	67	71	72	74	75	71	62	55	50	45	40	37	37	34	34	34	34	35	38	45	59	71	73	68	34	75	53.4
Jul 18	66	66	69	73	76	72	62	57	51	45	43	43	41	41	40	40	40	40	44	46	53	62	61	60	40	76	53.8
Jul 19	59	61	59	64	69	64	60	53	48	44	41	39	37	44	45	40	55	60	47	66	82	90	88	84	37	90	58.3
Jul 20	85	83	81	81	80	76	72	69	61	57	53	44	37	37	32	32	30	30	32	38	49	58	61	62	30	85	55.8
Jul 21	67	68	67	69	71	69	59	59	51	48	46	43	38	40	54	70	54	49	55	72	73	78	84	90	38	90	61.4
Jul 22	90	90	92	93	94	92	80	78	67	58	54	51	50	49	45	42	40	38	38	45	60	65	78	83	38	94	65.5
Jul 23	86	85	86	80	86	89	83	80	63	55	51	46	40	42	34	33	31	31	43	51	66	73	75	69	31	89	61.6
Jul 24	67	70	64	63	75	87	85	80	75	66	60	59	49	40	40	40	55	64	68	73	74	81	85	89	40	89	67.0
Jul 25	92	93	94	94	92	92	89	82	81	70	61	54	48	42	50	57	52	50	48	54	57	67	74	78	42	94	69.6
Jul 26	80	83	89	92	92	88	75	61	53	47	44	41	39	35	32	32	34	38	42	43	56	65	70	78	32	92	58.7
Jul 27	81	83	83	84	85	84	78	70	58	48	42	38	37	36	34	34	32	32	32	43	58	66	73	75	32	85	57.8
Jul 28	77	75	76	74	78	81	74	64	56	50	47	39	31	27	26	22	**19**	21	32	52	66	71	76	83	**19**	83	54.9
Jul 29	77	78	84	89	88	90	87	83	70	62	58	55	57	54	51	51	50	52	53	62	73	81	**P**	**P**	50	90	68.4
Jul 30	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Jul 31	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Diurnal Maximum	95	96	96	97	97	95	96	96	97	95	90	90	85	84	81	80	81	81	84	92	95	95	95	94			
Diurnal Average	77.4	79.5	81.3	82.4	84.1	83.0	77.7	72.1	63.9	57.3	53.8	50.2	46.8	44.3	43.6	44.1	44.1	44.9	46.9	53.6	63.1	70.0	73.4	76.5			

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

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

Timeseries Chart of Hourly Average for RH - Reno Station



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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

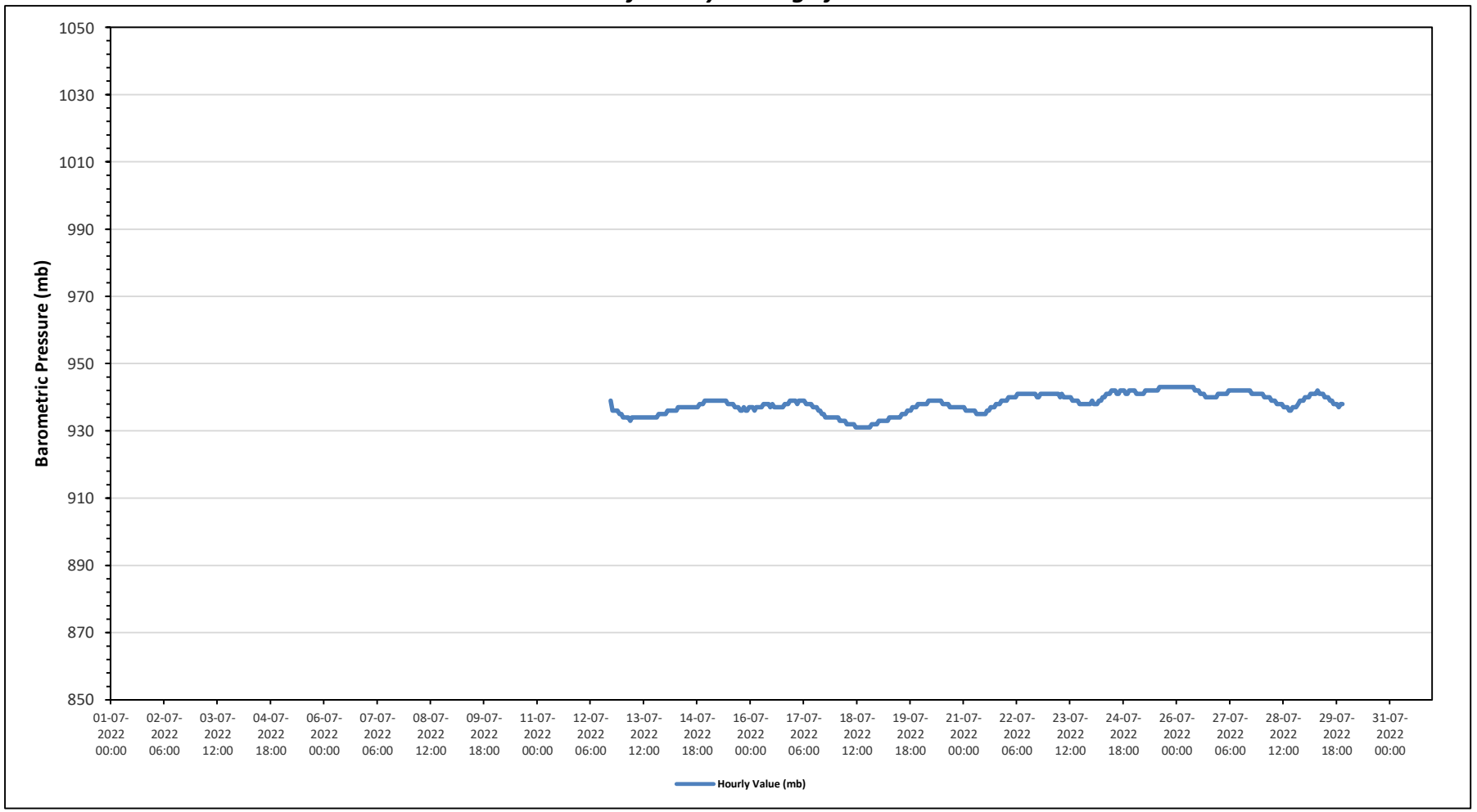
Maximum Hourly Value:	943	mb	on July 25 at hour 14	Hours in Service:	744
Maximum Daily Value:	942	mb	on July 25	Hours of Data:	413
Minimum Hourly Value:	931	mb	on July 18 at hour 11	Hours of Missing Data:	331
Minimum Daily Value:	932	mb	on July 18	Hours of Calibration:	0
Monthly Average:	938	mb		Operational Uptime:	55.5

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	939	936	936	936	936	935	935	935	939	-
Jul 13	934	934	934	934	933	934	934	934	934	934	934	934	934	934	934	934	934	934	934	934	935	935	935	935	933	935	934.1
Jul 14	935	936	936	936	936	936	936	937	937	937	937	937	937	937	937	937	937	937	937	938	938	938	939	939	935	939	937.0
Jul 15	939	939	939	939	939	939	939	939	939	939	939	938	938	938	938	937	937	937	936	936	937	936	936	937	936	939	937.9
Jul 16	937	937	936	937	937	937	937	938	938	938	938	937	938	937	937	937	937	937	937	938	938	938	939	939	936	939	937.5
Jul 17	939	939	938	939	939	939	939	938	938	938	938	937	937	937	936	936	935	935	934	934	934	934	934	934	934	939	936.7
Jul 18	934	934	933	933	933	933	932	932	932	932	932	**931**	**931**	**931**	**931**	**931**	**931**	**931**	**931**	**931**	932	932	932	932	**931**	934	932.0
Jul 19	933	933	933	933	933	933	934	934	934	934	934	934	934	935	935	935	936	936	936	937	937	937	938	938	933	938	934.8
Jul 20	938	938	938	938	939	939	939	939	939	939	939	939	938	938	938	938	937	937	937	937	937	937	937	937	937	939	938.0
Jul 21	937	936	936	936	936	936	936	935	935	935	935	935	935	936	936	937	937	937	938	938	938	939	939	939	935	939	936.5
Jul 22	939	940	940	940	940	940	941	941	941	941	941	941	941	941	941	941	941	940	940	941	941	941	941	941	939	941	940.6
Jul 23	941	941	941	941	941	941	940	941	940	940	940	940	940	939	939	939	939	938	938	938	938	938	938	938	938	941	939.5
Jul 24	939	938	938	938	939	939	940	940	941	941	941	942	942	942	941	941	942	942	942	941	941	942	942	942	938	942	940.7
Jul 25	942	941	941	941	941	941	942	942	942	942	942	942	942	942	**943**	**943**	**943**	**943**	**943**	**943**	**943**	**943**	**943**	**943**	941	**943**	**942.2**
Jul 26	**943**	**943**	**943**	**943**	**943**	**943**	**943**	**943**	**943**	**943**	942	942	942	941	941	941	940	940	940	940	940	940	940	941	940	**943**	941.7
Jul 27	941	941	941	941	941	942	942	942	942	942	942	942	942	942	942	942	942	942	941	941	941	941	941	941	941	942	941.5
Jul 28	941	940	940	940	940	939	939	939	938	938	938	938	937	937	937	936	936	937	937	937	938	939	939	939	936	941	938.3
Jul 29	940	940	940	941	941	941	941	942	941	941	941	940	940	940	939	939	938	938	938	937	938	938	P	P	937	942	939.7
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Diurnal Maximum	943	943	943	943	943	943	943	943	943	943	942	942	942	942	943	943	943	943	943	943	943	943	943	943			
Diurnal Average	938	938	938	938	938	938	938	939	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938	938			

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

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

Timeseries Chart of Hourly Average for BP - Reno Station



peace river area monitoring program
pramp

PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

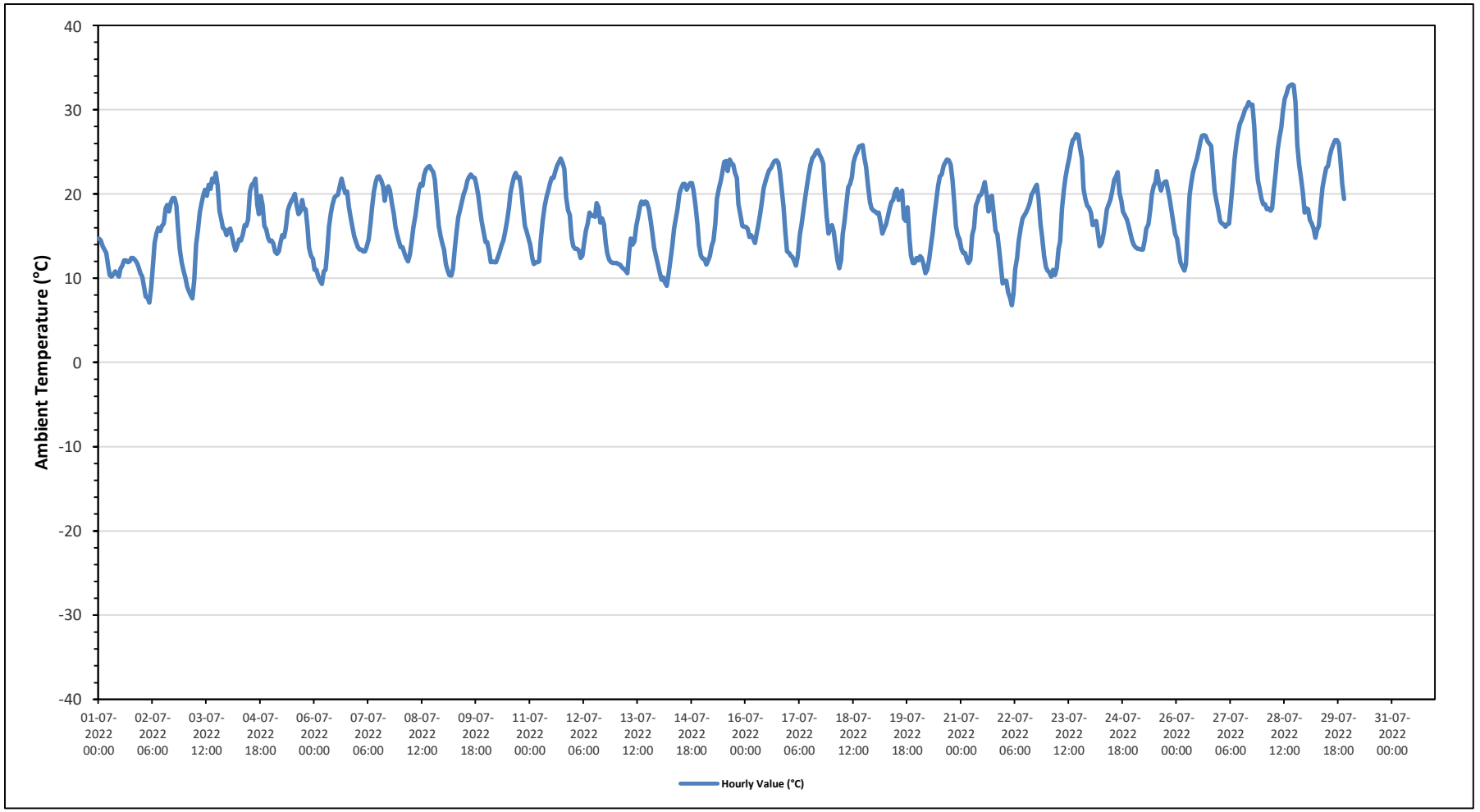
Maximum Hourly Value:	33.0	°C	on July 28 at hour 16	Hours in Service:	744
Maximum Daily Value:	24.9	°C	on July 28	Hours of Data:	694
Minimum Hourly Value:	6.8	°C	on July 22 at hour 4	Hours of Missing Data:	50
Minimum Daily Value:	11.9	°C	on July 1	Hours of Calibration:	0
Monthly Average:	17.6	°C		Operational Uptime:	93.3

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
Jul 1	14.7	14.5	13.8	13.4	13	11.5	10.4	10.2	10.5	10.8	10.5	10.2	11.1	11.5	12.1	12.1	11.9	12	12.4	12.4	12.2	11.8	11.3	10.6	10.2	14.7	11.9
Jul 2	10.2	9.1	7.8	7.7	7.1	8.9	11.7	14.2	15.3	16	15.6	16.2	16.5	18.3	18.7	17.9	19	19.5	19.5	18.6	16	13.4	11.9	10.9	7.1	19.5	14.2
Jul 3	10.1	9	8.5	8	7.6	9.8	14	15.7	17.8	18.8	19.8	20.5	19.8	21.1	20.6	21.8	21.4	22.5	21	18	17	16	15.8	15.1	7.6	22.5	16.2
Jul 4	15.7	15.9	15	14	13.3	13.9	14.6	14.5	15.2	16.3	16.2	17	20.3	21.1	21.3	21.8	18.7	17.6	19.8	18.7	16.2	15.8	14.8	14.4	13.3	21.8	16.8
Jul 5	14.5	14.1	13.1	12.9	13.2	14.2	15.1	14.9	15.8	18	18.7	19.2	19.5	20	18.6	17.6	17.9	19.3	18.2	18.2	16.1	13.6	12.6	12.3	12.3	20.0	16.2
Jul 6	11	11	10.2	9.7	9.3	10.8	11	13.1	16.1	17.7	18.7	19.6	19.8	19.9	20.9	21.8	21	20.1	20.3	18.4	17.3	16.1	15	14.4	9.3	21.8	16.0
Jul 7	13.7	13.4	13.4	13.2	13.2	13.7	14.6	16.5	18.4	20.3	21.4	22	22.1	21.6	20.9	19.2	20.5	20.9	20.4	18.8	17.6	16.1	15.1	14.3	13.2	22.1	17.6
Jul 8	13.7	13.7	12.9	12.4	12	12.8	14.4	16	17.4	19.1	20.5	21.2	21	22.2	22.9	23.2	23.3	22.9	22.6	21.7	19.1	16.2	15	14.2	12.0	23.3	17.9
Jul 9	13.4	11.7	11	10.4	10.3	11.1	13.5	15.6	17.2	18.1	19.2	20	20.6	21.6	22	22.3	22	21.9	21.1	19.9	18.2	16.8	15.6	14.3	10.3	22.3	17.0
Jul 10	14.3	13.3	11.9	12	11.9	11.9	12.5	13.1	13.9	14.5	15.4	16.6	18.3	20.1	21.2	22.1	22.5	21.9	22	20.6	18.3	16.2	15.6	14.8	11.9	22.5	16.5
Jul 11	14	12.4	11.7	11.9	11.9	12	14.7	16.9	18.5	19.6	20.4	21.2	21.9	21.9	22.7	23.4	23.8	24.2	23.7	23	19.6	18.1	17.5	14.8	11.7	24.2	18.3
Jul 12	13.8	13.5	13.5	13.3	12.4	12.7	14.1	15.6	16.5	17.8	17.4	17.4	17.3	18.9	18.4	16.6	17.1	16.4	14.1	12.9	12.2	11.9	11.8	11.8	11.8	18.9	14.9
Jul 13	11.8	11.7	11.6	11.3	11.1	10.9	10.6	13.1	14.7	14	14.4	16.2	17.3	18.5	19.1	18.8	19.1	19	18.2	16.8	15.4	13.6	12.6	11.7	10.6	19.1	14.6
Jul 14	10.7	9.8	10.1	9.5	9.1	10.5	11.9	13.8	15.9	17	18.2	20	20.6	21.2	21.2	20.5	20.9	21.3	21.3	20.4	18.5	16.4	13.9	12.7	9.1	21.3	16.1
Jul 15	12.3	12.3	11.6	12.1	12.6	13.8	14.5	16.5	19.4	20.7	21.6	22.6	23.8	23.9	22.7	24.1	23.6	23.5	22.5	21.9	18.8	17.6	16.2	16.1	11.6	24.1	18.5
Jul 16	16.1	15.9	14.9	15.1	14.7	14.2	15.2	16.4	17.7	19	20.7	21.6	22.2	22.8	23.1	23.5	23.9	24	23.7	22.6	20.5	18.4	15.7	13.2	13.2	24.0	19.0
Jul 17	13	12.7	12.5	12	11.5	12.6	15.2	16.3	17.9	19.5	21	22.2	23.4	24.3	24.5	25	25.2	24.7	24.3	23.6	20.2	17.3	15.3	15.9	11.5	25.2	18.8
Jul 18	16.3	15.5	13.8	12.1	11.2	12.2	15.2	16.8	19.1	20.8	21.2	22	23.7	24.5	25	25.6	25.7	25.8	24.4	23.2	21.1	19	18.3	18	11.2	25.8	19.6
Jul 19	17.9	17.7	17.8	16.6	15.3	15.9	16.4	17.2	18.2	19	19.3	20.2	20.6	19.3	19.8	20.4	17.1	16.8	18.4	14.8	12.7	11.8	11.8	12.4	11.8	20.6	17.0
Jul 20	12.1	12.6	12.4	11.6	10.6	11	12.2	13.9	15.5	17.4	19.2	20.9	22.1	22.3	23.3	23.7	24.1	24	23.5	21.7	18.9	16.2	15.1	14.6	10.6	24.1	17.5
Jul 21	13.5	13	13	12.2	11.8	12.2	15.1	16	18.6	19.2	19.8	19.9	20.6	21.4	19.9	17.9	19.6	19.8	17.7	15.6	15.2	13.3	11.2	9.4	9.4	21.4	16.1
Jul 22	9.7	9.7	8.3	7.7	**6.8**	8.1	11.1	12.4	14.4	16	17.1	17.5	17.8	18.3	18.9	19.9	20.3	20.8	21.1	19.4	16.5	15	12.6	11.3	**6.8**	21.1	14.6
Jul 23	10.9	10.7	10.2	11	10.4	11.2	13.5	14.4	18.3	20.4	21.9	23.3	24.3	25.5	26.4	26.6	27.1	27	25.4	24.2	20.6	19.4	18.6	18.4	10.2	27.1	19.2
Jul 24	17.8	16.3	16.5	16.8	15.3	13.8	14.2	15.2	16.5	18.2	18.8	19.3	20.3	21.7	22.1	22.6	20.1	19.2	17.9	17.4	17	16.3	15.4	14.5	13.8	22.6	17.6
Jul 25	14	13.7	13.5	13.5	13.4	13.4	14.5	15.9	16.4	18.1	19.9	20.9	21.4	22.7	21.3	20.4	21.1	21.4	21.5	20.5	19.4	17.8	16.4	15.2	13.4	22.7	17.8
Jul 26	14.7	13.1	11.9	11.4	10.9	11.7	16.1	19.9	21.3	22.6	23.5	24.1	25.1	26.2	26.9	27	26.9	26.2	26	25.7	22.8	20.4	19.2	17.9	10.9	27.0	20.5
Jul 27	16.8	16.5	16.4	16.1	16.4	16.5	18.8	21.3	24.1	26	27.2	28.3	28.9	29.4	30.1	30.4	30.9	30.5	30.6	28	24	21.6	20.7	19.5	16.1	30.9	23.7
Jul 28	18.8	18.8	18.2	18.3	18	18.3	20.6	22.7	25.2	26.7	27.9	29.8	31.3	31.9	32.7	32.9	**33**	32.9	30.9	25.8	23.5	21.9	20.2	17.8	17.8	**33.0**	**24.9**
Jul 29	18.3	18.2	16.9	16.5	15.9	14.8	15.7	16.2	18.6	20.8	22	23.1	23.3	24.4	25.3	25.9	26.4	26.4	26	24.1	21.2	19.4	**P**	**P**	14.8	26.4	20.9
Jul 30	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Jul 31	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Diurnal Maximum	18.8	18.8	18.2	18.3	18.0	18.3	20.6	22.7	25.2	26.7	27.9	29.8	31.3	31.9	32.7	32.9	33.0	32.9	30.9	28.0	24.0	21.9	20.7	19.5			
Diurnal Average	13.9	13.4	12.8	12.5	12.1	12.6	14.2	15.7	17.4	18.7	19.6	20.4	21.2	21.9	22.2	22.2	22.2	22.2	21.7	20.2	18.1	16.5	15.2	14.3			

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 AT - Reno Station



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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

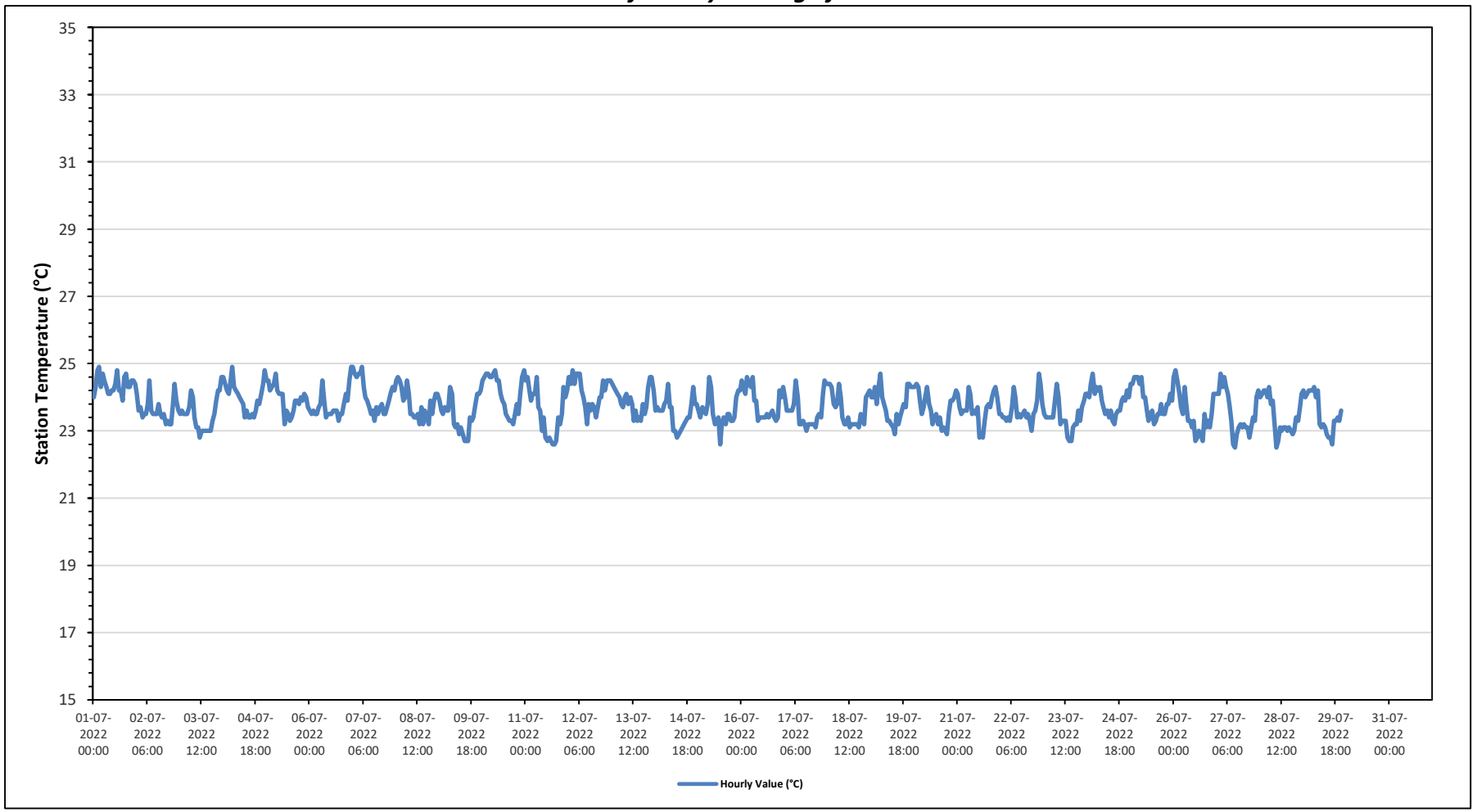
Maximum Hourly Value:	24.9	°C	on July 1 at hour 3	Hours in Service:	744
Maximum Daily Value:	24.4	°C	on July 1	Hours of Data:	694
Minimum Hourly Value:	22.5	°C	on July 27 at hour 10	Hours of Missing Data:	50
Minimum Daily Value:	23.4	°C	on July 23	Hours of Calibration:	0
Monthly Average:	23.7	°C		Operational Uptime:	93.3

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
Jul 1	24.0	24.3	24.8	**24.9**	24.3	24.7	24.5	24.3	24.1	24.1	24.2	24.2	24.4	24.8	24.2	24.2	23.9	24.6	24.7	24.3	24.3	24.5	24.5	24.4	23.9	**24.9**	**24.4**
Jul 2	24.1	23.6	23.7	23.4	23.5	23.5	23.8	24.5	23.6	23.5	23.5	23.5	23.8	23.5	23.4	23.5	23.2	23.3	23.2	23.2	23.8	24.4	23.9	23.6	23.2	24.5	23.6
Jul 3	23.5	23.6	23.5	23.5	23.5	23.7	24.2	24.0	23.4	23.1	23.1	22.8	23.0	23.0	23.0	23.0	23.0	23.0	23.3	23.5	23.9	24.2	24.2	24.6	22.8	24.6	23.5
Jul 4	24.6	24.4	24.2	24.1	24.5	**24.9**	24.3	24.2	24.1	24.0	23.9	23.8	23.4	23.6	23.4	23.4	23.5	23.4	23.6	23.9	23.8	24.1	24.4	24.8	23.4	**24.9**	24.0
Jul 5	24.5	24.5	24.2	24.3	24.4	24.7	24.2	24.1	24.1	24.1	23.2	23.6	23.5	23.3	23.4	23.6	23.9	23.9	23.8	24.0	23.9	24.1	24.0	23.7	23.2	24.7	24.0
Jul 6	23.6	23.5	23.6	23.5	23.5	23.7	23.8	24.5	23.9	23.4	23.5	23.5	23.5	23.6	23.6	23.6	23.3	23.5	23.5	23.8	24.1	23.9	24.5	**24.9**	23.3	**24.9**	23.7
Jul 7	**24.9**	24.7	24.6	24.7	24.7	**24.9**	24.3	24.0	23.9	23.7	23.5	23.6	23.3	23.7	23.5	23.7	23.8	23.5	23.5	23.7	23.9	24.1	24.3	24.2	23.3	**24.9**	24.0
Jul 8	24.5	24.6	24.5	24.3	23.9	24.0	24.5	24.1	23.5	23.5	23.4	23.4	23.5	23.2	23.7	23.2	23.6	23.4	23.2	23.9	23.5	23.9	24.1	24.1	23.2	24.6	23.8
Jul 9	23.9	23.6	23.5	23.7	23.6	23.6	24.3	24.1	23.2	23.1	23.2	22.9	23.1	22.9	22.7	22.7	22.7	23.4	23.3	23.4	23.8	24.1	24.1	24.2	22.7	24.3	23.5
Jul 10	24.5	24.6	24.7	24.7	24.6	24.6	24.7	24.8	24.5	24.5	24.1	23.9	23.8	23.5	23.4	23.3	23.3	23.2	23.5	23.8	23.5	24.1	24.6	24.8	23.2	24.8	24.1
Jul 11	24.5	24.6	24.2	23.9	24.1	24.1	24.6	23.7	23.6	23.0	23.4	22.8	22.7	22.8	22.7	22.6	22.6	22.7	23.4	23.2	23.5	24.3	24.0	24.2	22.6	24.6	23.6
Jul 12	24.6	24.4	24.8	24.4	24.7	24.7	24.7	24.2	24.0	23.7	23.2	23.8	23.6	23.8	23.7	23.4	23.7	24.0	24.0	24.5	24.2	24.5	24.5	24.5	23.2	24.8	24.2
Jul 13	24.4	24.3	24.2	24.1	24.0	23.8	23.7	24.0	24.1	23.8	24.0	23.8	23.3	23.6	23.3	23.4	23.3	23.8	23.5	23.7	24.3	24.6	24.6	24.2	23.3	24.6	23.9
Jul 14	23.6	23.7	23.6	23.6	23.6	23.8	23.9	24.4	23.7	23.7	23.0	23.0	22.8	22.9	23.0	23.1	23.2	23.3	23.4	23.4	23.8	24.3	23.8	23.8	22.8	24.4	23.5
Jul 15	23.6	23.4	23.7	23.6	23.5	23.8	24.6	24.3	23.5	23.2	23.3	23.4	22.6	23.2	23.4	23.2	23.5	23.5	23.3	23.3	23.4	24.0	24.2	24.2	22.6	24.6	23.6
Jul 16	24.5	24.3	24.1	24.6	24.4	24.3	24.6	23.9	23.9	23.3	23.4	23.4	23.4	23.4	23.5	23.4	23.5	23.6	23.4	23.3	23.4	24.2	24.0	24.3	23.3	24.6	23.8
Jul 17	24.0	23.6	23.6	23.6	23.6	23.8	24.5	24.0	23.2	23.2	23.3	23.2	23.0	23.2	23.2	23.2	23.2	23.1	23.4	23.5	23.4	24.1	24.5	24.4	23.0	24.5	23.6
Jul 18	24.4	24.4	24.3	23.8	23.7	23.8	24.4	24.0	23.4	23.2	23.2	23.4	23.1	23.2	23.2	23.2	23.2	23.1	23.5	23.4	23.2	24.0	24.1	24.2	23.1	24.4	23.6
Jul 19	24.0	24.0	24.3	23.8	24.3	24.7	24.0	23.8	23.6	23.3	23.3	23.2	23.1	22.9	23.5	23.2	23.4	23.6	23.8	23.7	24.4	24.4	24.3	24.3	22.9	24.7	23.8
Jul 20	24.3	24.4	24.3	23.9	23.5	23.7	24.0	24.3	23.8	23.6	23.2	23.4	23.5	23.2	23.4	23.0	23.1	23.0	22.9	23.5	23.9	23.9	24.0	24.2	22.9	24.4	23.7
Jul 21	24.1	23.7	23.5	23.6	23.6	23.6	24.3	24.1	23.5	23.6	23.5	23.7	22.8	22.9	22.8	23.3	23.7	23.8	23.7	24.0	24.2	24.3	24.0	23.5	22.8	24.3	23.7
Jul 22	23.5	23.4	23.4	23.3	23.4	23.3	23.7	24.3	24.0	23.4	23.5	23.4	23.5	23.6	23.4	23.5	23.3	23.0	23.5	23.6	23.9	24.7	24.4	23.8	23.0	24.7	23.6
Jul 23	23.5	23.4	23.4	23.4	23.4	23.4	23.9	24.4	24.0	23.2	23.3	23.3	23.3	22.8	22.7	22.7	23.1	23.2	23.2	23.6	23.3	23.7	23.9	24.1	22.7	24.4	23.4
Jul 24	24.1	24.0	24.4	24.7	24.1	24.3	24.2	24.3	23.9	23.7	23.5	23.6	23.4	23.6	23.3	23.2	23.5	23.6	23.6	23.9	24.0	23.9	24.2	24.0	23.2	24.7	23.9
Jul 25	24.4	24.4	24.6	24.6	24.6	24.4	24.6	24.0	24.0	23.6	23.3	23.5	23.6	23.2	23.3	23.5	23.5	23.8	23.5	23.5	23.8	23.8	24.1	23.9	23.2	24.6	23.9
Jul 26	24.6	24.8	24.5	24.1	23.7	23.5	24.3	23.8	23.3	23.3	23.1	23.3	22.7	22.8	23.0	22.9	22.7	23.5	23.1	23.3	23.1	23.5	24.1	24.1	22.7	24.8	23.5
Jul 27	24.1	24.1	24.7	24.3	24.6	24.3	24.1	23.7	23.3	22.6	**22.5**	22.9	23.1	23.2	23.1	23.2	23.1	23.1	22.8	23.1	23.4	23.3	24.0	24.2	**22.5**	24.7	23.5
Jul 28	24.0	24.1	24.2	24.2	24.0	24.3	23.8	23.9	23.1	**22.5**	22.7	23.1	23.0	23.1	23.1	23.0	23.1	23.0	22.9	23.0	23.4	23.3	23.7	24.1	**22.5**	24.3	23.4
Jul 29	24.2	24.0	24.1	24.2	24.2	24.2	24.3	24.0	24.2	23.2	23.1	23.2	23.1	22.9	22.8	22.8	22.6	23.3	23.3	23.4	23.3	23.6	P	P	22.6	24.3	23.5
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Diurnal Maximum	24.9	24.8	24.8	24.9	24.7	24.9	24.7	24.8	24.5	24.5	24.2	24.2	24.4	24.8	24.2	24.2	23.9	24.6	24.7	24.5	24.4	24.7	24.6	24.9			
Diurnal Average	24.2	24.1	24.1	24.0	24.0	24.1	24.2	24.1	23.7	23.5	23.4	23.4	23.3	23.3	23.3	23.2	23.3	23.4	23.4	23.6	23.7	24.1	24.2	24.2			

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

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

Timeseries Chart of Hourly Average for ST - Reno Station



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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

PRECIPITATION in mm

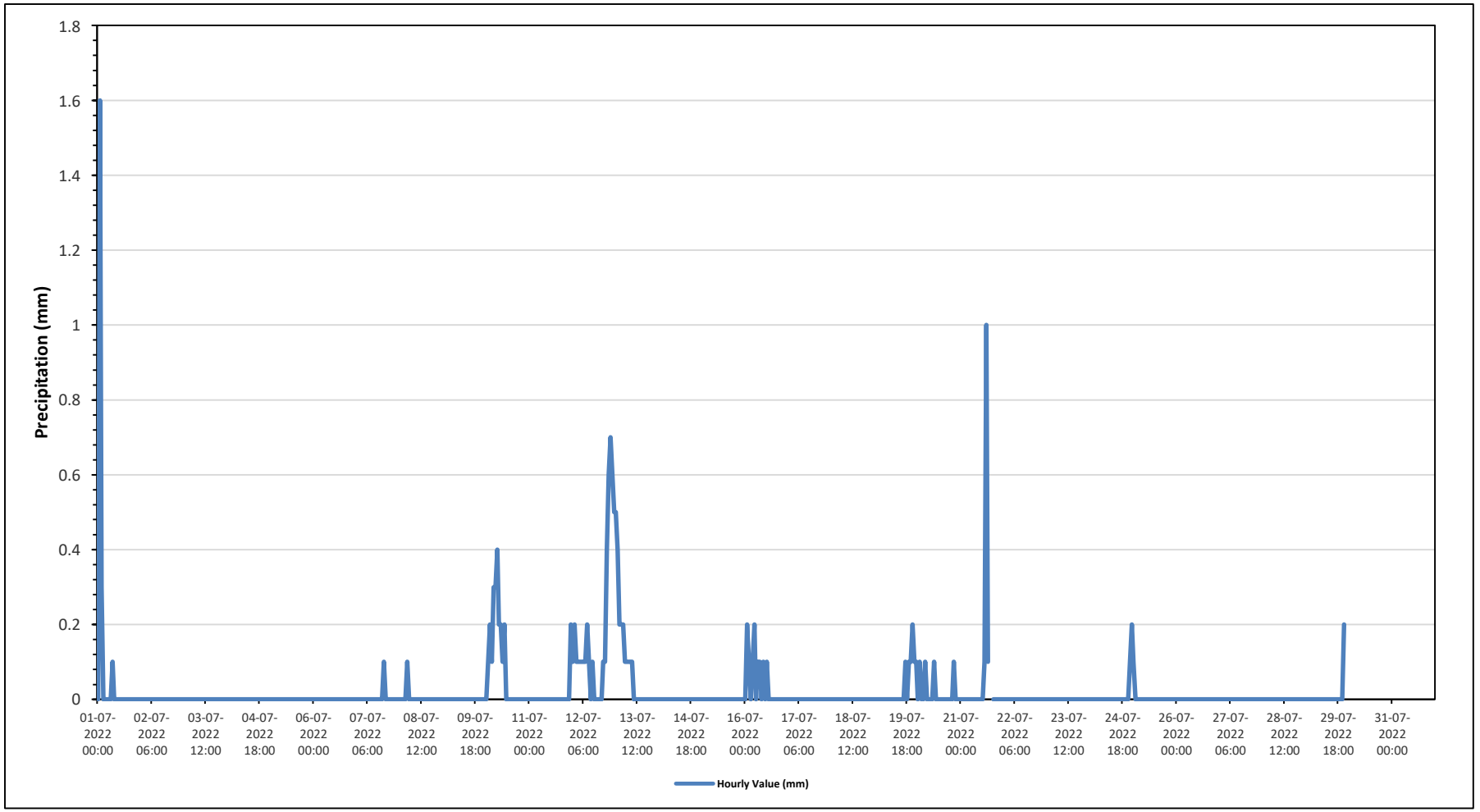
Maximum Hourly Value:	1.6	mm	on July 1 at hour 1	Hours in Service:	744
Maximum Daily Value:	4.3	mm	on July 12	Hours of Data:	692
Minimum Hourly Value:	0.0	mm	on July 1 at hour 0	Hours of Missing Data:	50
Minimum Daily Value:	0.0	mm	on July 2	Hours of Calibration:	2
Monthly Total:	14.7	mm		Operational Uptime:	93.3

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
Jul 1	0	**1.6**	0.3	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	**1.6**	2.0
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Jul 8	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	0.1	0.1
Jul 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jul 10	0	0.1	0.2	0.1	0.3	0.3	0.4	0.2	0.2	0.1	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.4	2.1
Jul 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0.0	0.2	0.2
Jul 12	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0	0.1	0	0	0	0	0	0.1	0.1	0.4	0.6	0.7	0.6	0.5	0.0	0.7	**4.3**
Jul 13	0.5	0.4	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.5	2.0
Jul 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
Jul 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
Jul 16	0	0.2	0.1	0	0.1	0.2	0	0.1	0.1	0	0.1	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0.0	0.2	1.0
Jul 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
Jul 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
Jul 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0.1	0.2	0.1	0.1	0.0	0.2	0.7
Jul 20	0	0.1	0	0	0.1	0	0	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0.0	0.1	0.4
Jul 21	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	1	0.1	**C**	**C**	0	0	0	0	0	0	0.0	1.0	1.2
Jul 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
Jul 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
Jul 24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.2	0.0	0.2	0.3
Jul 25	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.1	0.1
Jul 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
Jul 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jul 28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0
Jul 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	**P**	**P**	0.0	0.2	0.2
Jul 30	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Jul 31	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
Diurnal Maximum	0.5	1.6	0.3	0.2	0.3	0.3	0.4	0.2	0.2	0.1	0.2	0.1	0.1	0.1	1.0	0.1	0.0	0.1	0.1	0.4	0.6	0.7	0.6	0.5			
Diurnal Average	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

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

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

Timeseries Chart of Hourly Average for Precipitation - Reno Station



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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

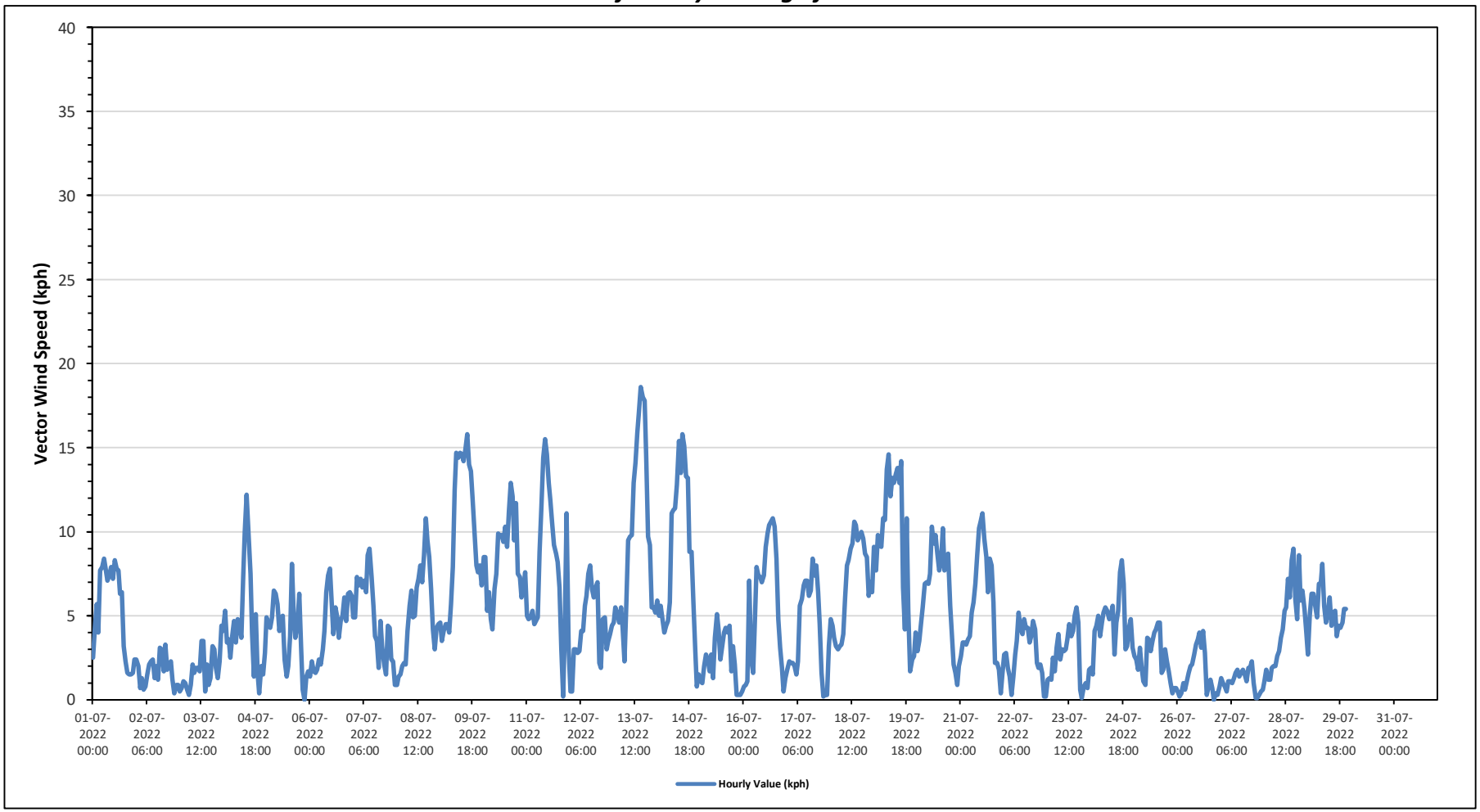
Maximum Hourly Value:	18.6	kph	on July 13 at hour 15	Hours in Service:	744
Maximum Daily Value:	9.6	kph	on July 9	Hours of Data:	694
Minimum Hourly Value:	0.0	kph	on July 5 at hour 21	Hours of Missing Data:	50
Minimum Daily Value:	0.5	kph	on July 3	Hours of Calibration:	0
Monthly Average:	2.6	kph		Operational Uptime:	93.3

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
Jul 1	2.5	4.3	5.7	4.0	7.7	7.9	8.4	7.8	7.1	7.4	7.9	7.2	8.3	7.8	7.7	6.3	6.4	3.2	2.3	1.6	1.5	1.5	1.6	2.4	1.5	8.4	4.8
Jul 2	2.4	2.0	0.7	1.3	0.6	0.8	1.5	2.1	2.3	2.4	1.3	2.0	1.2	3.1	3.0	1.7	3.3	1.8	2.0	2.3	1.2	0.4	0.9	0.9	0.4	3.3	0.6
Jul 3	0.5	0.7	1.1	1.0	0.6	0.3	0.9	2.1	1.6	1.9	1.9	1.7	3.5	3.5	0.5	2.1	0.9	1.3	3.2	3.0	1.9	1.3	2.3	4.4	0.3	4.4	**0.5**
Jul 4	4.1	5.3	3.4	3.6	2.5	3.8	4.7	3.4	4.8	4.5	3.7	7.3	10.0	12.2	10.0	7.5	3.9	1.4	5.1	1.6	0.4	2.0	1.5	2.8	0.4	12.2	3.9
Jul 5	4.9	4.5	4.3	4.9	6.5	6.3	5.7	4.1	4.9	5.0	2.4	1.4	2.0	3.8	8.1	4.9	3.7	4.5	6.3	3.1	0.6	**0.0**	1.4	1.7	**0.0**	8.1	3.7
Jul 6	1.4	2.3	1.7	1.6	1.8	2.4	2.1	3.0	4.1	6.4	7.4	7.8	6.0	3.9	5.5	4.9	3.7	4.7	5.0	6.1	4.7	6.3	6.4	6.2	1.4	7.8	4.3
Jul 7	4.9	4.9	7.3	6.8	7.2	6.7	7.1	6.4	8.6	9.0	7.3	5.6	3.8	3.5	1.9	4.7	3.2	2.1	1.5	4.4	4.3	2.4	2.3	0.9	0.9	9.0	4.4
Jul 8	0.9	1.4	1.5	2.0	2.2	2.1	4.1	5.6	6.5	4.9	5.0	6.7	7.2	8.0	7.0	8.6	10.8	9.5	8.5	6.6	4.2	3.0	4.3	4.5	0.9	10.8	5.1
Jul 9	4.6	3.5	4.1	4.5	4.5	4.0	5.7	7.9	12.5	14.7	14.4	14.7	14.6	14.2	14.9	15.8	14.0	13.6	11.8	9.9	8.0	7.6	8.0	6.8	3.5	15.8	**9.6**
Jul 10	8.5	8.5	5.3	6.4	4.8	4.2	6.6	7.5	9.9	9.7	9.8	9.4	10.3	9.1	11.2	12.9	12.1	9.5	11.7	7.5	7.3	6.1	6.6	7.6	4.2	12.9	8.3
Jul 11	5.0	4.8	4.9	5.3	4.5	4.7	4.9	8.8	11.5	14.4	15.5	14.6	12.9	11.9	10.5	9.2	8.7	8.2	6.7	3.0	0.2	4.1	11.1	3.0	0.2	15.5	7.6
Jul 12	0.5	0.5	3.0	3.0	2.8	2.9	4.1	4.1	5.6	6.2	7.5	8.0	6.6	6.1	6.7	7.0	2.2	1.9	4.8	4.9	3.0	3.5	3.9	4.4	0.5	8.0	4.1
Jul 13	4.6	5.5	5.1	4.6	5.5	4.3	2.3	5.7	9.5	9.7	9.8	12.9	14.1	15.9	17.1	**18.6**	18.0	17.8	14.4	9.7	9.2	5.5	5.5	5.2	2.3	**18.6**	9.4
Jul 14	5.9	5.0	5.6	4.8	4.0	4.4	4.7	5.8	11.1	11.3	11.4	12.8	15.4	13.5	15.8	15.1	13.3	13.2	8.8	8.8	5.8	3.0	0.8	1.5	0.8	15.8	8.2
Jul 15	1.1	1.0	2.0	2.7	2.4	1.7	2.7	1.3	3.7	5.1	4.2	2.4	3.2	4.0	4.3	4.0	4.4	1.7	3.2	2.1	0.3	0.3	0.3	0.5	0.3	5.1	1.8
Jul 16	0.8	0.9	1.1	7.1	2.5	1.6	4.4	7.9	7.4	7.3	7.0	7.4	9.1	9.9	10.4	10.6	10.8	10.3	8.4	4.8	3.1	1.9	0.5	1.3	0.5	10.8	5.4
Jul 17	1.8	2.3	2.2	2.2	2.0	1.5	2.3	5.6	6.0	6.8	7.1	7.1	6.2	6.5	8.4	7.4	8.0	6.4	4.5	1.6	0.2	0.3	0.3	3.2	0.2	8.4	4.1
Jul 18	4.8	4.4	3.7	3.2	3.0	3.2	3.3	3.9	6.1	8.0	8.3	9.0	9.3	10.6	10.4	9.5	9.7	10.0	9.6	8.7	8.5	6.2	7.0	6.4	3.0	10.6	6.6
Jul 19	9.1	7.7	9.8	9.5	9.1	10.8	10.7	13.7	14.6	12.1	13.2	12.9	13.4	13.8	12.9	14.2	6.7	4.2	10.8	5.3	1.7	2.4	2.6	4.0	1.7	14.6	9.0
Jul 20	2.9	3.5	4.6	5.5	6.9	7.0	6.9	7.5	10.3	9.3	9.8	8.7	7.7	8.2	10.2	7.7	8.2	8.7	5.6	4.0	2.1	1.6	0.9	2.0	0.9	10.3	6.2
Jul 21	2.6	3.4	3.4	3.3	3.6	3.8	5.2	5.8	6.9	8.6	10.2	10.6	11.1	9.6	8.5	6.4	8.4	8.0	5.8	2.2	2.2	1.8	0.4	1.5	0.4	11.1	3.6
Jul 22	2.7	2.8	1.9	1.4	0.3	1.4	2.7	3.5	5.2	4.3	3.9	4.8	4.3	4.3	3.4	3.8	4.7	4.2	2.2	1.9	2.1	1.6	0.2	0.2	0.2	5.2	2.1
Jul 23	1.2	1.3	1.2	2.5	1.7	3.1	3.9	2.4	3.0	2.9	3.0	3.6	4.5	3.8	4.1	5.0	5.5	4.6	0.6	0.1	0.8	1.0	0.7	1.8	0.1	5.5	2.0
Jul 24	1.9	1.5	4.1	4.4	5.0	3.8	4.6	5.2	5.5	5.3	4.8	5.0	5.6	2.7	4.6	5.3	7.6	8.3	6.9	3.0	3.2	4.3	4.8	3.1	1.5	8.3	2.5
Jul 25	2.6	2.4	1.8	3.1	2.0	1.1	0.9	3.7	3.6	2.9	3.5	4.0	4.2	4.6	4.6	1.6	1.8	3.0	2.3	1.7	1.0	0.4	0.7	0.7	0.4	4.6	1.7
Jul 26	0.5	0.2	0.4	1.0	0.6	1.1	1.6	2.0	2.1	2.7	3.3	3.6	4.0	3.1	4.1	2.8	0.3	0.8	1.2	0.7	**0.0**	0.4	0.3	0.8	**0.0**	4.1	1.5
Jul 27	1.3	1.0	0.8	0.5	1.1	1.1	1.0	1.3	1.6	1.8	1.4	1.6	1.8	1.5	1.1	1.9	1.9	2.3	1.0	0.1	0.1	0.3	0.5	0.6	0.1	2.3	0.9
Jul 28	1.1	1.8	1.2	1.2	1.9	2.0	2.0	2.6	2.9	3.7	4.2	5.3	5.5	7.2	6.1	8.3	9.0	6.0	4.8	8.6	5.9	6.5	5.4	4.0	1.1	9.0	1.9
Jul 29	2.7	5.0	6.3	6.3	5.7	4.9	6.9	6.9	8.1	5.6	4.6	5.2	6.1	4.4	5.2	5.3	3.8	4.4	4.3	4.6	5.4	5.4	P	P	2.7	8.1	5.2
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	-
Diurnal Maximum	9	9	10	10	9	11	11	14	15	15	16	15	15	16	17	19	18	18	14	10	9	8	11	8			
Diurnal Average	3.0	3.2	3.4	3.7	3.6	3.5	4.2	5.1	6.4	6.7	6.7	7.0	7.3	7.3	7.5	7.3	6.7	6.1	5.6	4.2	3.1	2.8	2.9	2.9			

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

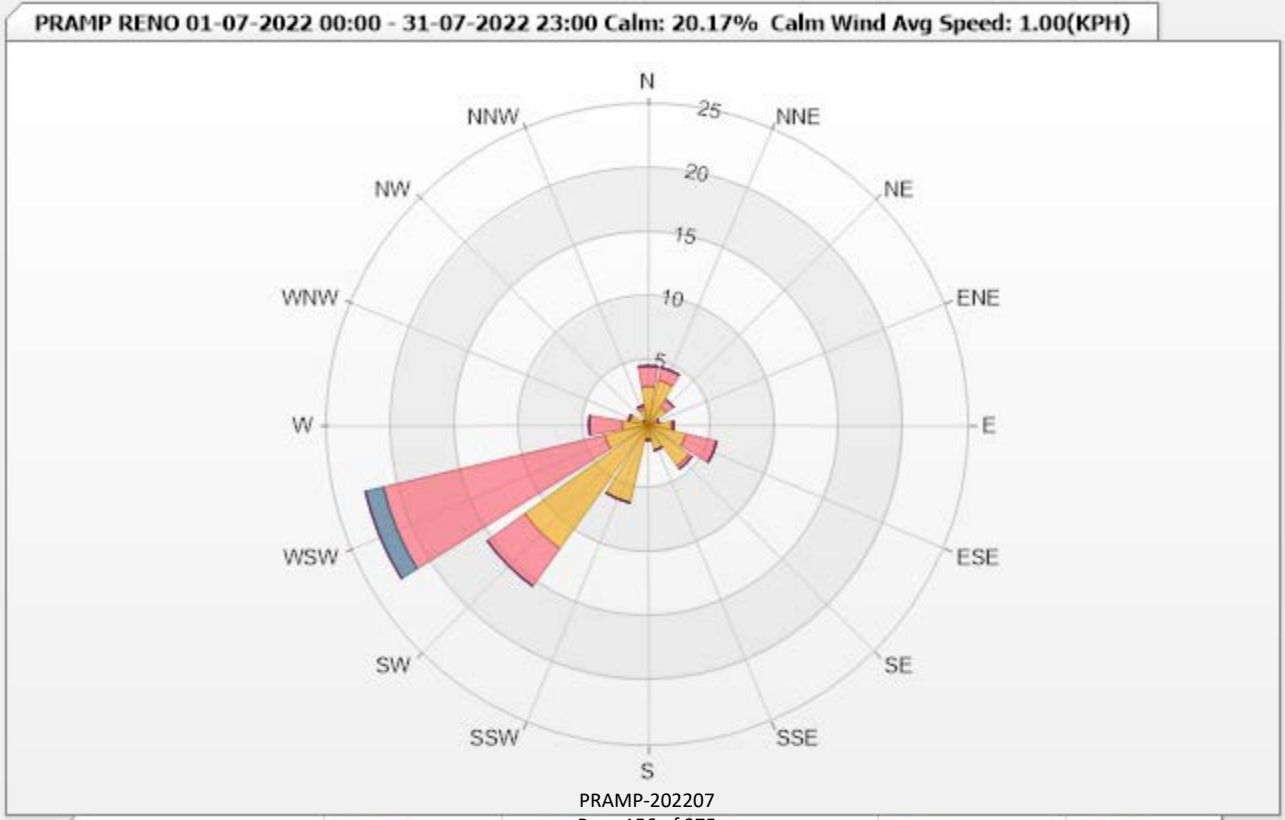
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

Timeseries Chart of Hourly Average for VWS - Reno Station



Wind: PRAMP RENO Monitor: WDS [KPH] Monthly: 07-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 20.17% Valid Data: 93.28%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	3.03	1.59	0	0	0	4.62
NNE	3.6	1.01	0	0	0	4.61
NE	1.73	0.72	0	0	0	2.45
ENE	0.14	0.72	0	0	0	0.86
E	1.87	0.14	0	0	0	2.01
ESE	3.03	2.45	0	0	0	5.48
SE	3.89	0.29	0	0	0	4.18
SSE	2.02	0	0	0	0	2.02
S	1.15	0	0	0	0	1.15
SSW	6.2	0	0	0	0	6.2
SW	11.82	3.6	0	0	0	15.42
WSW	3.46	17.72	1.44	0	0	22.62
W	2.02	2.59	0	0	0	4.61
WNW	1.44	0.14	0	0	0	1.58
NW	0.43	0	0	0	0	0.43
NNW	1.3	0.29	0	0	0	1.59
Summary	47.13	31.26	1.44	0	0	79.83


PRAMP RENO 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 20.17% Calm Wind Avg Speed: 1.00(KPH)
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (KPH)
47 1.8-6.0
31 6.0-15.0
1 15.0-29.0
0 29.0-39.0
0 >39.0

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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

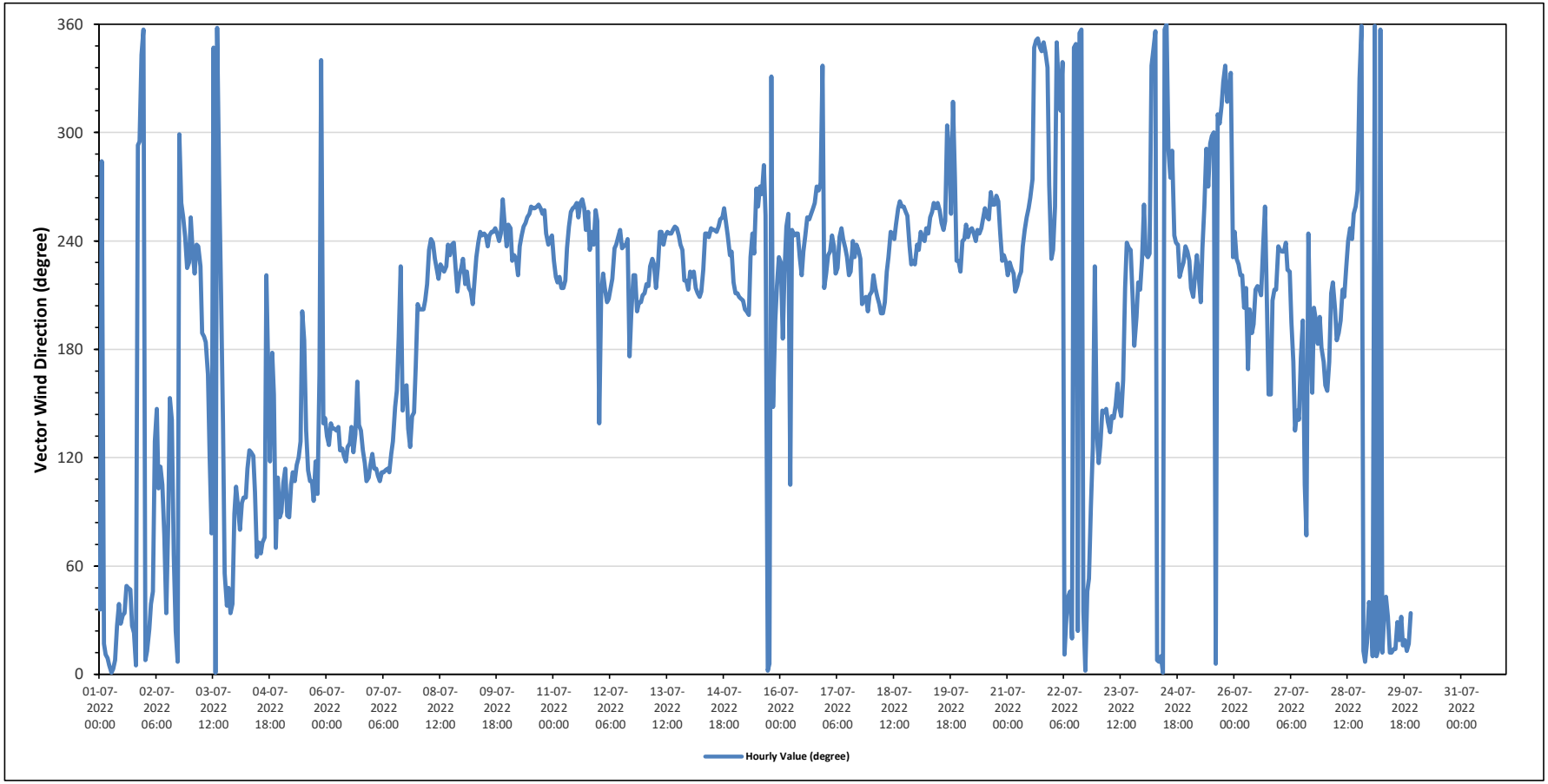
Monthly Average:	240 (WSW) degree	Hours in Service:	744
		Hours of Data:	694
		Hours of Missing Data:	50
		Hours of Calibration:	0
		Operational Uptime:	93.3

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
Jul 1	NE	WNW	NNE	NNE	N	N	N	N	N	NNE	NE	NNE	NNE	NE	NE	NE	NE	NNE	NNE	N	WNW	WNW	NNW	N	19	NNE
Jul 2	N	NNE	NNE	NE	NE	SE	SE	ESE	ESE	ESE	ENE	NE	E	SSE	SE	ENE	NNE	N	WNW	W	WSW	WSW	SW	SW	75	ENE
Jul 3	WSW	SW	SW	SW	SW	SW	S	S	S	SSE	ESE	ENE	NNW	N	N	W	SSW	SE	NE	NE	NE	NE	NE	E	64	ENE
Jul 4	ESE	E	E	E	E	E	ESE	ESE	ESE	ESE	E	ENE	ENE	ENE	ENE	ENE	SW	SSE	ESE	S	SSE	ENE	ESE	E	92	E
Jul 5	E	ESE	ESE	E	E	ESE	ESE	ESE	ESE	ESE	SE	SSW	S	SE	ESE	ESE	ESE	E	ESE	E	SSE	NNW	SE	SE	111	ESE
Jul 6	SE	SE	SE	SE	SE	SE	SE	ESE	SE	ESE	ESE	SE	SE	SE	ESE	SE	SSE	SE	SE	ESE	ESE	ESE	ESE	ESE	126	SE
Jul 7	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SSE	S	SW	SE	SSE	SSE	SE	SE	SE	SE	SSE	126	SE
Jul 8	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	SW	SSW	SW	SW	228	SW
Jul 9	SW	SW	SW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	SW	240	WSW
Jul 10	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	250	WSW
Jul 11	SW	SW	SW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	W	W	WSW	WSW	WSW	SW	WSW	SW	WSW	WSW	248	WSW
Jul 12	SE	SSW	SW	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	SW	SW	SW	WSW	S	SSW	SW	SW	SSW	SSW	SSW	SSW	226	SW
Jul 13	SSW	SW	SSW	SW	SW	SW	SSW	SW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW	238	SW
Jul 14	SW	SW	SW	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	241	WSW
Jul 15	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	WSW	SW	W	WSW	W	W	W	WSW	N	N	NNW	SE	SSW	SSW	SW	248	WSW
Jul 16	SW	S	SW	WSW	WSW	ESE	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	NNW	SSW	247	WSW
Jul 17	SW	SW	SW	WSW	SW	SW	SW	WSW	WSW	WSW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	233	SW
Jul 18	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	SW	SW	SW	SW	239	WSW
Jul 19	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	W	WSW	WSW	WSW	WSW	WNW	WNW	WSW	NW	W	SW	SW	SW	253	WSW
Jul 20	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	W	W	WSW	SW	SW	SW	250	WSW
Jul 21	SW	SW	SW	SW	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	W	W	NNW	N	N	NNW	NNW	N	NNW	NNW	W	SW	273	W
Jul 22	SW	WSW	N	NW	NW	NNW	NNE	NNE	NE	NE	NNE	NNW	NNW	NNE	N	N	NE	N	NE	NE	E	SE	SW	SE	14	NNE
Jul 23	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SE	SE	SSE	SSW	WSW	SW	SW	SSW	S	SSW	SW	SSW	SW	176	S
Jul 24	WSW	SW	SW	SW	NNW	NNW	N	N	N	N	N	N	N	WNW	W	WNW	WSW	WSW	SW	SW	SW	SW	SW	SW	287	WNW
Jul 25	SW	SSW	SSW	SW	SW	SW	SSW	SW	WSW	WNW	W	WNW	WNW	WNW	N	NW	WNW	NW	NNW	NNW	NW	NW	NNW	SW	280	W
Jul 26	WSW	SW	SW	SW	SW	SSW	SSW	SSE	SSW	S	SSW	SSW	SSW	SSW	SSW	SW	WSW	SSW	SSE	SSE	SSW	SSW	SSW	SW	207	SSW
Jul 27	SW	SW	SW	WSW	SW	SW	SSW	S	SE	SE	SE	S	SSW	ESE	ENE	WSW	S	SSE	SSW	SSW	S	SSW	S	S	182	S
Jul 28	SSE	SSE	S	SSW	SW	SSW	S	S	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	W	NNW	N	NNE	N	NNE	NE	263	W
Jul 29	NNE	N	N	N	NNE	N	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	P	P	19	NNE
Jul 30	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
Jul 31	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		

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

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

Timeseries Chart of Hourly Average for VWD - Reno Station



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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	18.6	kph	on July 13 at hour 15	Hours in Service:	744
Maximum Daily Value:	9.6	kph	on July 9	Hours of Data:	694
Minimum Hourly Value:	0.0	kph	on July 5 at hour 21	Hours of Missing Data:	50
Minimum Daily Value:	0.5	kph	on July 3	Hours of Calibration:	0
Monthly Average:	2.6	kph		Operational Uptime:	93.3

WIND DIRECTION

Monthly Average: 240 (WSW) degree

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	2.5	4.3	5.7	4.0	7.7	7.9	8.4	7.8	7.1	7.4	7.9	7.2	8.3	7.8	7.7	6.3	6.4	3.2	2.3	1.6	1.5	1.5	1.6	2.4	1.5	8.4	4.8
	NE	WNW	NNE	NNE	N	N	N	N	N	NNE	NE	NNE	NNE	NE	NE	NE	NE	NNE	NNE	N	WNW	WNW	NNW	N			
Jul 2	2.4	2.0	0.7	1.3	0.6	0.8	1.5	2.1	2.3	2.4	1.3	2.0	1.2	3.1	3.0	1.7	3.3	1.8	2.0	2.3	1.2	0.4	0.9	0.9	0.4	3.3	0.6
	N	NNE	NNE	NE	NE	SE	SE	ESE	ESE	ESE	ENE	NE	E	SSE	SE	ENE	NNE	N	WNW	W	WSW	WSW	SW	SW			
Jul 3	0.5	0.7	1.1	1.0	0.6	0.3	0.9	2.1	1.6	1.9	1.9	1.7	3.5	3.5	0.5	2.1	0.9	1.3	3.2	3.0	1.9	1.3	2.3	4.4	0.3	4.4	**0.5**
	WSW	SW	SW	SW	SW	SW	S	S	S	SSE	ESE	ENE	NNW	N	N	W	SSW	SE	NE	NE	NE	NE	NE	E			
Jul 4	4.1	5.3	3.4	3.6	2.5	3.8	4.7	3.4	4.8	4.5	3.7	7.3	10.0	12.2	10.0	7.5	3.9	1.4	5.1	1.6	0.4	2.0	1.5	2.8	0.4	12.2	3.9
	ESE	E	E	E	E	E	ESE	ESE	ESE	ESE	E	ENE	ENE	ENE	ENE	ENE	SW	SSE	ESE	S	SSE	ENE	ESE	E			
Jul 5	4.9	4.5	4.3	4.9	6.5	6.3	5.7	4.1	4.9	5.0	2.4	1.4	2.0	3.8	8.1	4.9	3.7	4.5	6.3	3.1	0.6	**0.0**	1.4	1.7	**0.0**	8.1	3.7
	E	ESE	ESE	E	E	ESE	ESE	ESE	ESE	ESE	SE	SSW	S	SE	ESE	ESE	ESE	E	ESE	E	SSE	NNW	SE	SE			
Jul 6	1.4	2.3	1.7	1.6	1.8	2.4	2.1	3.0	4.1	6.4	7.4	7.8	6.0	3.9	5.5	4.9	3.7	4.7	5.0	6.1	4.7	6.3	6.4	6.2	1.4	7.8	4.3
	SE	SE	SE	SE	SE	SE	SE	ESE	SE	ESE	ESE	SE	SE	SE	ESE	SE	SSE	SE	SE	ESE	ESE	ESE	ESE	ESE			
Jul 7	4.9	4.9	7.3	6.8	7.2	6.7	7.1	6.4	8.6	9.0	7.3	5.6	3.8	3.5	1.9	4.7	3.2	2.1	1.5	4.4	4.3	2.4	2.3	0.9	0.9	9.0	4.4
	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	SE	SE	SSE	S	SW	SE	SSE	SSE	SE	SE	SE	SE	SSE			
Jul 8	0.9	1.4	1.5	2.0	2.2	2.1	4.1	5.6	6.5	4.9	5.0	6.7	7.2	8.0	7.0	8.6	10.8	9.5	8.5	6.6	4.2	3.0	4.3	4.5	0.9	10.8	5.1
	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	SW	SSW	SW	SW			
Jul 9	4.6	3.5	4.1	4.5	4.5	4.0	5.7	7.9	12.5	14.7	14.4	14.7	14.6	14.2	14.9	15.8	14.0	13.6	11.8	9.9	8.0	7.6	8.0	6.8	3.5	15.8	**9.6**
	SW	SW	SW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	SW			
Jul 10	8.5	8.5	5.3	6.4	4.8	4.2	6.6	7.5	9.9	9.7	9.8	9.4	10.3	9.1	11.2	12.9	12.1	9.5	11.7	7.5	7.3	6.1	6.6	7.6	4.2	12.9	8.3
	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW			
Jul 11	5.0	4.8	4.9	5.3	4.5	4.7	4.9	8.8	11.5	14.4	15.5	14.6	12.9	11.9	10.5	9.2	8.7	8.2	6.7	3.0	0.2	4.1	11.1	3.0	0.2	15.5	7.6
	SW	SW	SW	SW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	W	WSW	W	W	WSW	WSW	WSW	SW	WSW	SW	WSW	WSW			
Jul 12	0.5	0.5	3.0	3.0	2.8	2.9	4.1	4.1	5.6	6.2	7.5	8.0	6.6	6.1	6.7	7.0	2.2	1.9	4.8	4.9	3.0	3.5	3.9	4.4	0.5	8.0	4.1
	SE	SSW	SW	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	WSW	SW	SW	SW	WSW	S	SSW	SW	SW	SSW	SSW	SSW	SSW			
Jul 13	4.6	5.5	5.1	4.6	5.5	4.3	2.3	5.7	9.5	9.7	9.8	12.9	14.1	15.9	17.1	**18.6**	18.0	17.8	14.4	9.7	9.2	5.5	5.5	5.2	2.3	**18.6**	9.4
	SSW	SW	SSW	SW	SW	SW	SSW	SW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SSW			
Jul 14	5.9	5.0	5.6	4.8	4.0	4.4	4.7	5.8	11.1	11.3	11.4	12.8	15.4	13.5	15.8	15.1	13.3	13.2	8.8	8.8	5.8	3.0	0.8	1.5	0.8	15.8	8.2
	SW	SW	SW	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW			
Jul 15	1.1	1.0	2.0	2.7	2.4	1.7	2.7	1.3	3.7	5.1	4.2	2.4	3.2	4.0	4.3	4.0	4.4	1.7	3.2	2.1	0.3	0.3	0.3	0.5	0.3	5.1	1.8
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	WSW	SW	W	WSW	W	W	W	WSW	N	N	NNW	SE	SSW	SSW	SW			
Jul 16	0.8	0.9	1.1	7.1	2.5	1.6	4.4	7.9	7.4	7.3	7.0	7.4	9.1	9.9	10.4	10.6	10.8	10.3	8.4	4.8	3.1	1.9	0.5	1.3	0.5	10.8	5.4
	SW	S	SW	WSW	WSW	ESE	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	NNW	SSW			
Jul 17	1.8	2.3	2.2	2.2	2.0	1.5	2.3	5.6	6.0	6.8	7.1	7.1	6.2	6.5	8.4	7.4	8.0	6.4	4.5	1.6	0.2	0.3	0.3	3.2	0.2	8.4	4.1
	SW	SW	SW	WSW	SW	SW	SW	WSW	WSW	WSW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW			
Jul 18	4.8	4.4	3.7	3.2	3.0	3.2	3.3	3.9	6.1	8.0	8.3	9.0	9.3	10.6	10.4	9.5	9.7	10.0	9.6	8.7	8.5	6.2	7.0	6.4	3.0	10.6	6.6
	SSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	SW	SW	SW	SW			
Jul 19	9.1	7.7	9.8	9.5	9.1	10.8	10.7	13.7	14.6	12.1	13.2	12.9	13.4	13.8	12.9	14.2	6.7	4.2	10.8	5.3	1.7	2.4	2.6	4.0	1.7	14.6	9.0
	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	W	WSW	WSW	WSW	WSW	WNW	WNW	WSW	NW	W	SW	SW	SW			
Jul 20	2.9	3.5	4.6	5.5	6.9	7.0	6.9	7.5	10.3	9.3	9.8	8.7	7.7	8.2	10.2	7.7	8.2	8.7	5.6	4.0	2.1	1.6	0.9	2.0	0.9	10.3	6.2
	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	W	W	WSW	SW	SW	SW			

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PEACE RIVER AREA MONITORING PROGRAM

Reno Station - July 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	18.6	kph	on July 13 at hour 15	Hours in Service:	744
Maximum Daily Value:	9.6	kph	on July 9	Hours of Data:	694
Minimum Hourly Value:	0.0	kph	on July 5 at hour 21	Hours of Missing Data:	50
Minimum Daily Value:	0.5	kph	on July 3	Hours of Calibration:	0
Monthly Average:	2.6	kph		Operational Uptime:	93.3

WIND DIRECTION

Monthly Average: 240 (WSW degree

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 21	2.6	3.4	3.4	3.3	3.6	3.8	5.2	5.8	6.9	8.6	10.2	10.6	11.1	9.6	8.5	6.4	8.4	8.0	5.8	2.2	2.2	1.8	0.4	1.5	0.4	11.1	3.6
	SW	SW	SW	SW	SSW	SSW	SW	SW	SW	WSW	WSW	WSW	W	W	NNW	N	N	NNW	NNW	N	NNW	NNW	W	SW			
Jul 22	2.7	2.8	1.9	1.4	0.3	1.4	2.7	3.5	5.2	4.3	3.9	4.8	4.3	4.3	3.4	3.8	4.7	4.2	2.2	1.9	2.1	1.6	0.2	0.2	0.2	5.2	2.1
	SW	WSW	N	NW	NW	NNW	NNE	NNE	NE	NE	NNE	NNW	NNW	NNE	N	N	NE	N	NE	NE	E	SE	SW	SE			
Jul 23	1.2	1.3	1.2	2.5	1.7	3.1	3.9	2.4	3.0	2.9	3.0	3.6	4.5	3.8	4.1	5.0	5.5	4.6	0.6	0.1	0.8	1.0	0.7	1.8	0.1	5.5	2.0
	ESE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SSE	SE	SE	SSE	SSW	WSW	SW	SW	SSW	S	SSW	SW	SSW	SW			
Jul 24	1.9	1.5	4.1	4.4	5.0	3.8	4.6	5.2	5.5	5.3	4.8	5.0	5.6	2.7	4.6	5.3	7.6	8.3	6.9	3.0	3.2	4.3	4.8	3.1	1.5	8.3	2.5
	WSW	SW	SW	SW	NNW	NNW	N	N	N	N	N	N	N	WNW	W	WNW	WSW	WSW	SW	SW	SW	SW	SW	SW			
Jul 25	2.6	2.4	1.8	3.1	2.0	1.1	0.9	3.7	3.6	2.9	3.5	4.0	4.2	4.6	4.6	1.6	1.8	3.0	2.3	1.7	1.0	0.4	0.7	0.7	0.4	4.6	1.7
	SW	SSW	SSW	SW	SW	SW	SSW	SW	WSW	WNW	W	WNW	WNW	WNW	N	NW	WNW	NW	NNW	NNW	NW	NW	NNW	SW			
Jul 26	0.5	0.2	0.4	1.0	0.6	1.1	1.6	2.0	2.1	2.7	3.3	3.6	4.0	3.1	4.1	2.8	0.3	0.8	1.2	0.7	**0.0**	0.4	0.3	0.8	**0.0**	4.1	1.5
	WSW	SW	SW	SW	SW	SSW	SSW	SSE	SSW	S	SSW	SSW	SSW	SSW	SSW	SW	WSW	SSW	SSE	SSE	SSW	SSW	SSW	SW			
Jul 27	1.3	1.0	0.8	0.5	1.1	1.1	1.0	1.3	1.6	1.8	1.4	1.6	1.8	1.5	1.1	1.9	1.9	2.3	1.0	0.1	0.1	0.3	0.5	0.6	0.1	2.3	0.9
	SW	SW	SW	WSW	SW	SW	SSW	S	SE	SE	SE	S	SSW	ESE	ENE	WSW	S	SSE	SSW	SSW	S	SSW	S	S			
Jul 28	1.1	1.8	1.2	1.2	1.9	2.0	2.0	2.6	2.9	3.7	4.2	5.3	5.5	7.2	6.1	8.3	9.0	6.0	4.8	8.6	5.9	6.5	5.4	4.0	1.1	9.0	1.9
	SSE	SSE	S	SSW	SW	SSW	S	S	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	W	NNW	N	NNE	N	NNE	NE			
Jul 29	2.7	5.0	6.3	6.3	5.7	4.9	6.9	6.9	8.1	5.6	4.6	5.2	6.1	4.4	5.2	5.3	3.8	4.4	4.3	4.6	5.4	5.4	**P**	**P**	2.7	8.1	5.2
	NNE	N	N	N	NNE	N	NNE	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	**P**	**P**			
Jul 30	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
	P	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**			
Jul 31	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	-	-	-
	P	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**	**P**			

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

PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - July 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

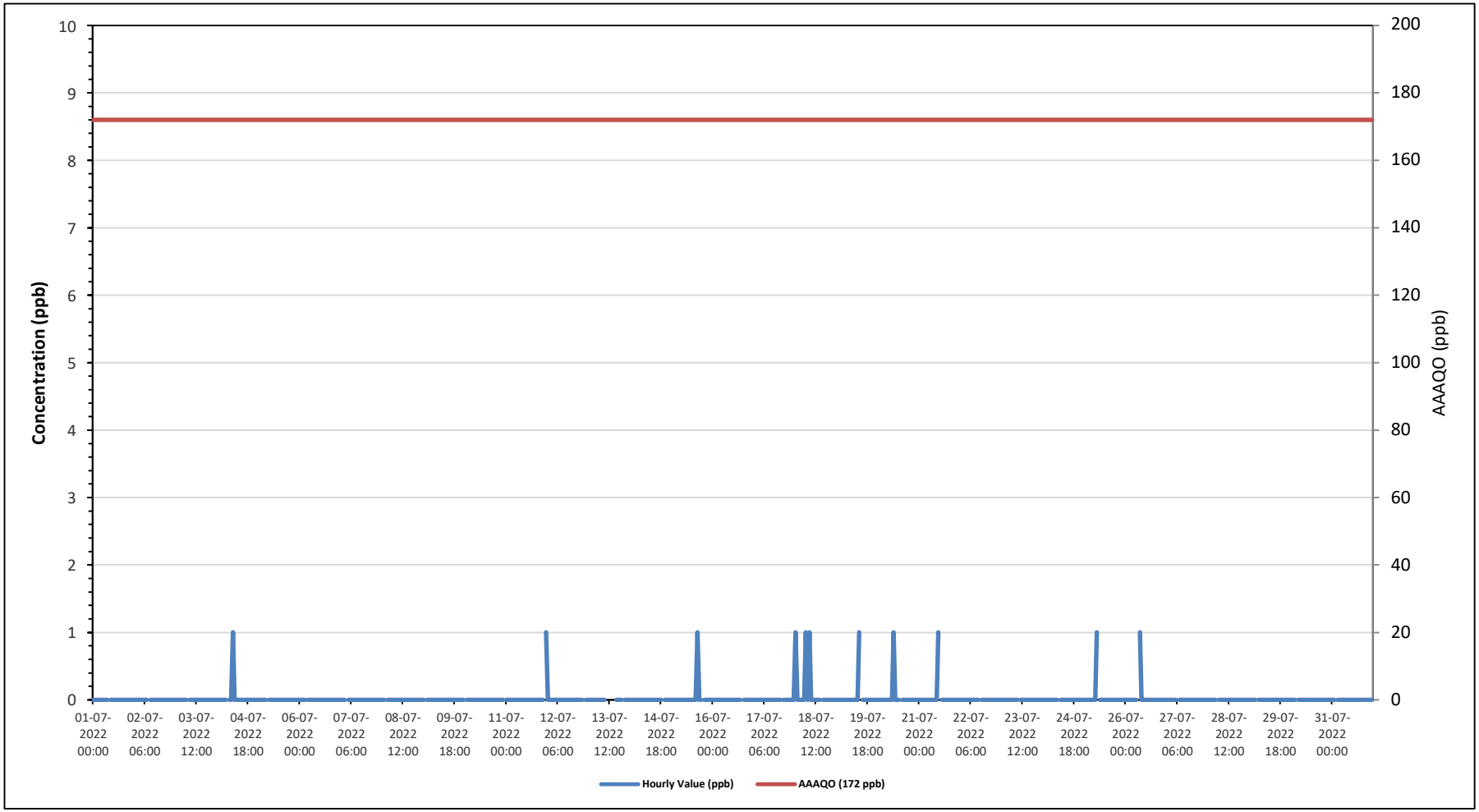
Maximum Hourly Value:	1	ppb	on July 4 at hour 9	Hours in Service:	744
Maximum Daily Value:	0.1	ppb	on July 18	Hours of Data:	706
Minimum Hourly Value:	0	ppb	on July 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on July 1	Hours of Calibration:	38
Monthly Average:	0.0	ppb		Operational Uptime:	100.0

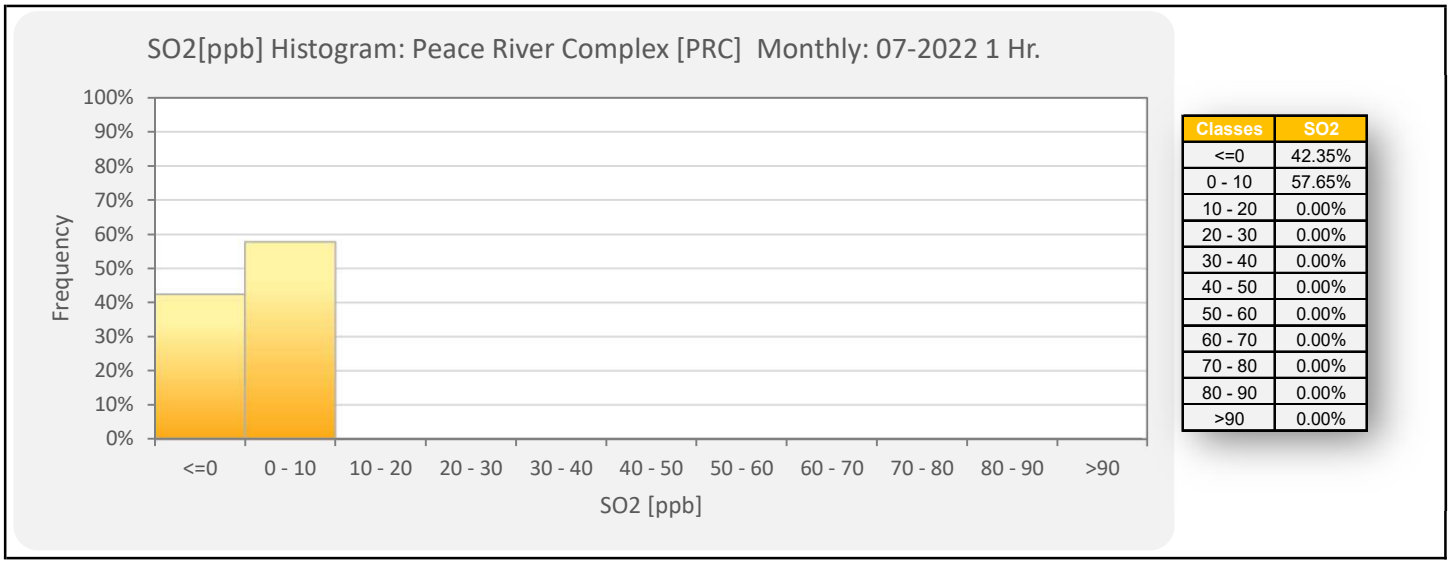
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 2	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 3	0	0	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
Jul 4	0	0	0	0	0	0	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Jul 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
Jul 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
Jul 7	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
Jul 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
Jul 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
Jul 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
Jul 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	1	0	1	0.0
Jul 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
Jul 13	0	0	0	0	0	0	0	0	0	0	C	C	C	C	C	C	0	0	0	0	S	0	0	0	0	0	-
Jul 14	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
Jul 15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	S	0	0	0	0	0	0	1	0.0
Jul 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
Jul 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
Jul 18	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.1
Jul 19	0	0	0	0	0	0	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	0	0	1	0.0
Jul 20	0	0	0	0	0	0	0	0	0	1	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Jul 21	0	0	0	0	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Jul 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
Jul 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
Jul 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
Jul 25	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Jul 26	0	0	0	0	0	0	0	S	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Jul 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
Jul 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
Jul 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
Jul 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
Jul 31	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	0	0	0	0	0	1	1	1	1	0	1	0	1	0	1	0	0	0	0	0	0	0	1			
Diurnal Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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 SO2 - Peace River Complex (PRC) Station



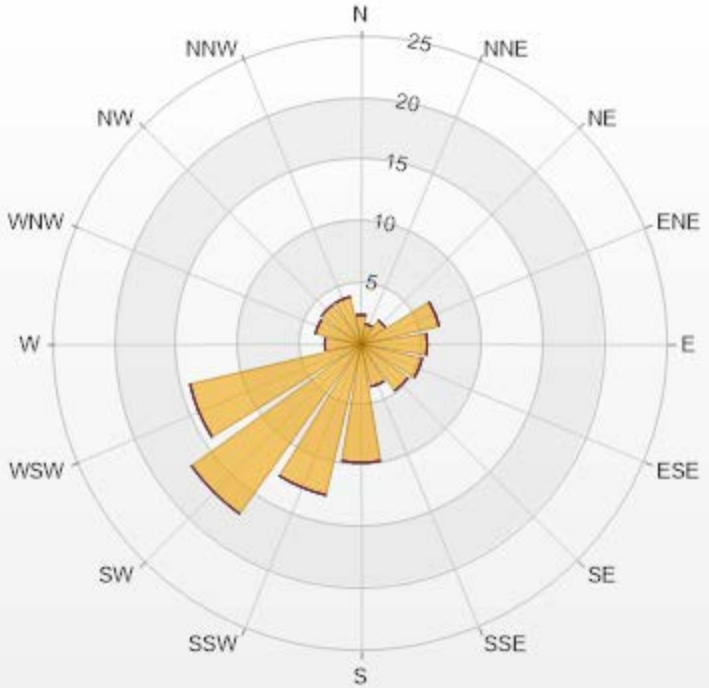


Classes	SO2
<=0	42.35%
0 - 10	57.65%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.89% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	2.41	0	0	0	0	2.41
NNE	1.7	0	0	0	0	1.7
NE	2.41	0	0	0	0	2.41
ENE	6.52	0	0	0	0	6.52
E	5.38	0	0	0	0	5.38
ESE	5.1	0	0	0	0	5.1
SE	4.67	0	0	0	0	4.67
SSE	3.54	0	0	0	0	3.54
S	9.63	0	0	0	0	9.63
SSW	12.61	0	0	0	0	12.61
SW	17	0	0	0	0	17
WSW	14.31	0	0	0	0	14.31
W	2.97	0	0	0	0	2.97
WNW	3.82	0	0	0	0	3.82
NW	3.97	0	0	0	0	3.97
NNW	3.97	0	0	0	0	3.97
Summary	100	0	0	0	0	100

Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-SO2[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%



% Icon Classes (ppb)	100 0-10	0 10-50	0 50-100	0 100-172	0 >172.0

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PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - July 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

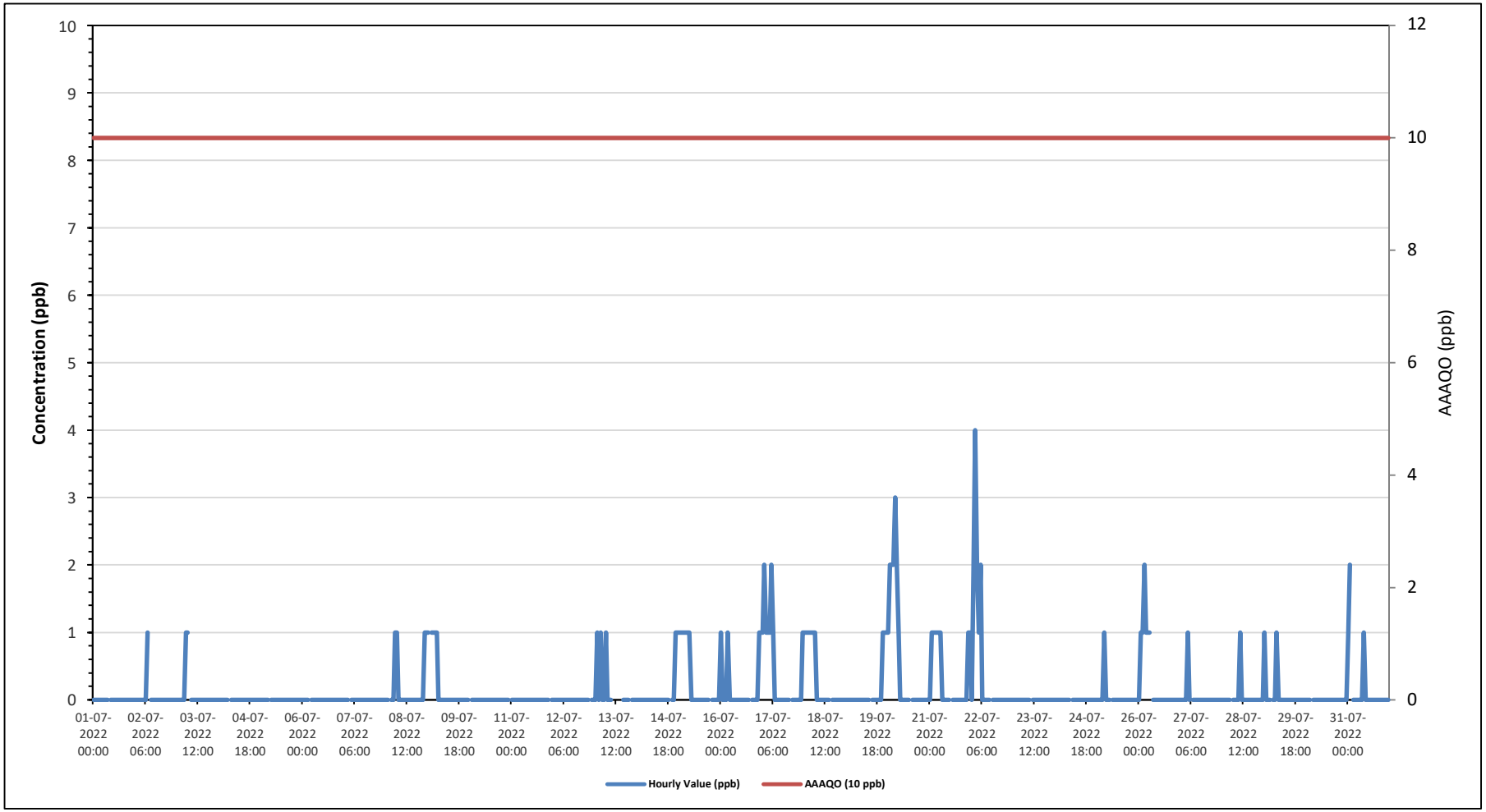
Maximum Hourly Value:	4	ppb	on July 22 at hour 2	Hours in Service:	744
Maximum Daily Value:	0.6	ppb	on July 20	Hours of Data:	706
Minimum Hourly Value:	0	ppb	on July 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on July 1	Hours of Calibration:	38
Monthly Average:	0.1	ppb		Operational Uptime:	100.0

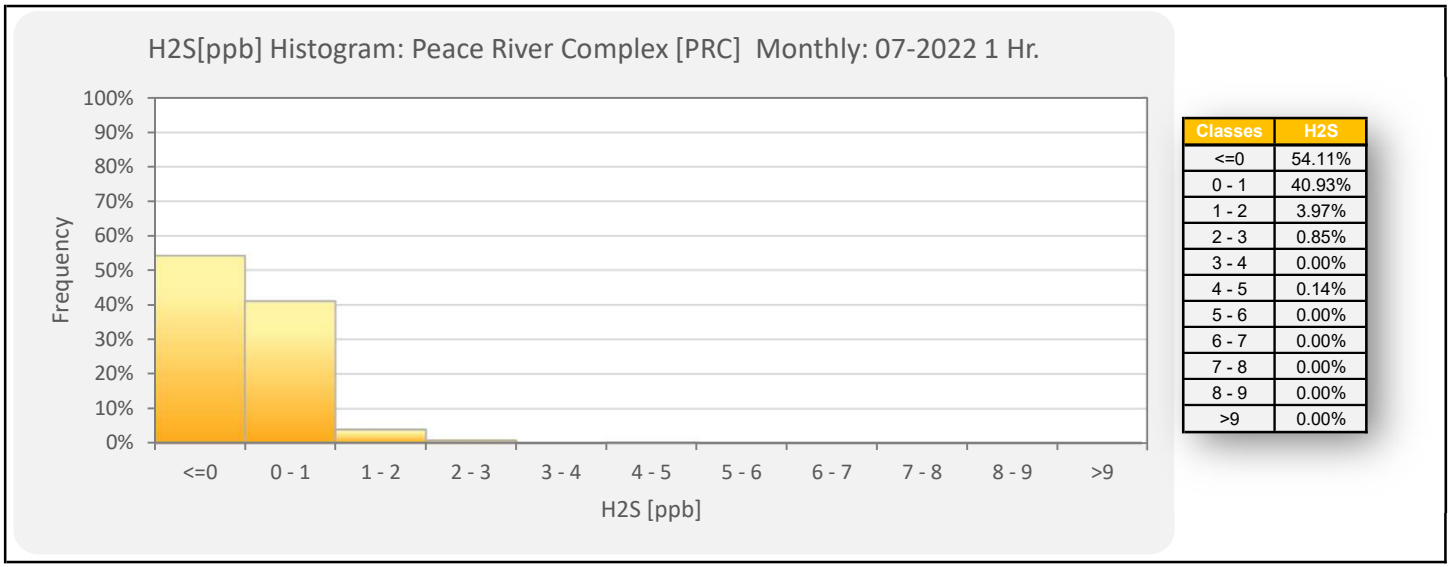
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 2	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Jul 3	0	0	0	0	0	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Jul 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
Jul 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
Jul 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
Jul 7	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
Jul 8	0	0	S	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0.2
Jul 9	1	S	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2
Jul 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
Jul 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
Jul 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
Jul 13	0	1	0	1	0	0	1	0	0	0	C	C	C	C	C	C	0	0	0	0	S	0	0	0	0	1	-
Jul 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	1	0	1	0.1
Jul 15	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0.3
Jul 16	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	1	0	1	0.2
Jul 17	1	2	1	1	1	2	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0	2	0.4
Jul 18	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.3
Jul 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	1	1	0	1	0.1
Jul 20	1	2	2	2	3	2	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	3	**0.6**
Jul 21	0	1	1	1	1	1	1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	1	0	1	0.3
Jul 22	0	2	**4**	2	1	2	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**	0.5
Jul 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
Jul 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
Jul 25	0	0	0	0	1	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Jul 26	0	1	1	2	1	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3
Jul 27	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
Jul 28	0	0	0	0	0	S	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Jul 29	1	0	0	0	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Jul 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
Jul 31	1	2	S	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.2
Diurnal Maximum	1	2	4	2	3	2	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1			
Diurnal Average	0.3	0.4	0.4	0.4	0.4	0.4	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	0.0	0.0	0.0	0.2	0.2			

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 H2S - Peace River Complex (PRC) Station



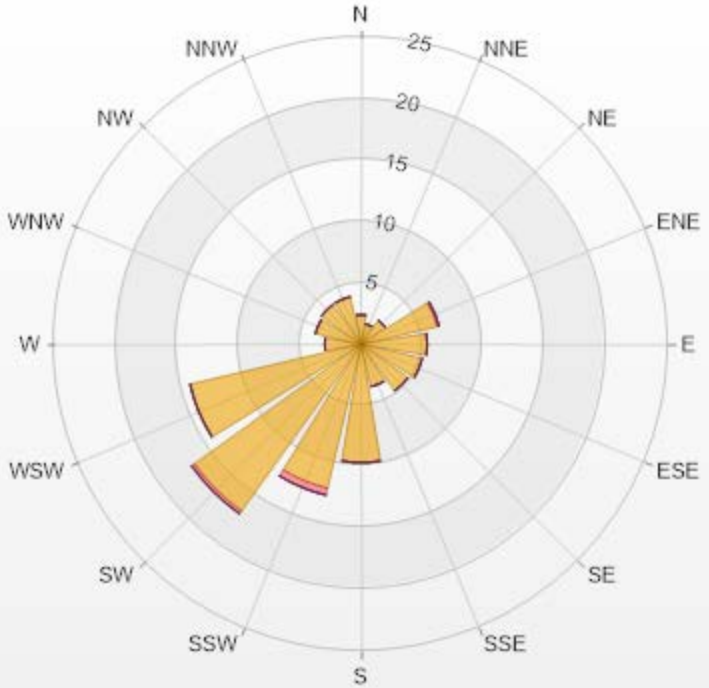


Classes	H2S
<=0	54.11%
0 - 1	40.93%
1 - 2	3.97%
2 - 3	0.85%
3 - 4	0.00%
4 - 5	0.14%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-H2S[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.89% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	2.41	0	0	0	0	2.41
NNE	1.7	0	0	0	0	1.7
NE	2.41	0	0	0	0	2.41
ENE	6.37	0.14	0	0	0	6.51
E	5.38	0	0	0	0	5.38
ESE	5.1	0	0	0	0	5.1
SE	4.67	0	0	0	0	4.67
SSE	3.54	0	0	0	0	3.54
S	9.63	0	0	0	0	9.63
SSW	12.04	0.57	0	0	0	12.61
SW	16.71	0.28	0	0	0	16.99
WSW	14.31	0	0	0	0	14.31
W	2.97	0	0	0	0	2.97
WNW	3.82	0	0	0	0	3.82
NW	3.97	0	0	0	0	3.97
NNW	3.97	0	0	0	0	3.97
Summary	99	0.99	0	0	0	100

Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-H2S[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%



% Icon Classes (ppb)	99 0-2	1 2-5	0 5-10	0 10-50	0 >50.0

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PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - July 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

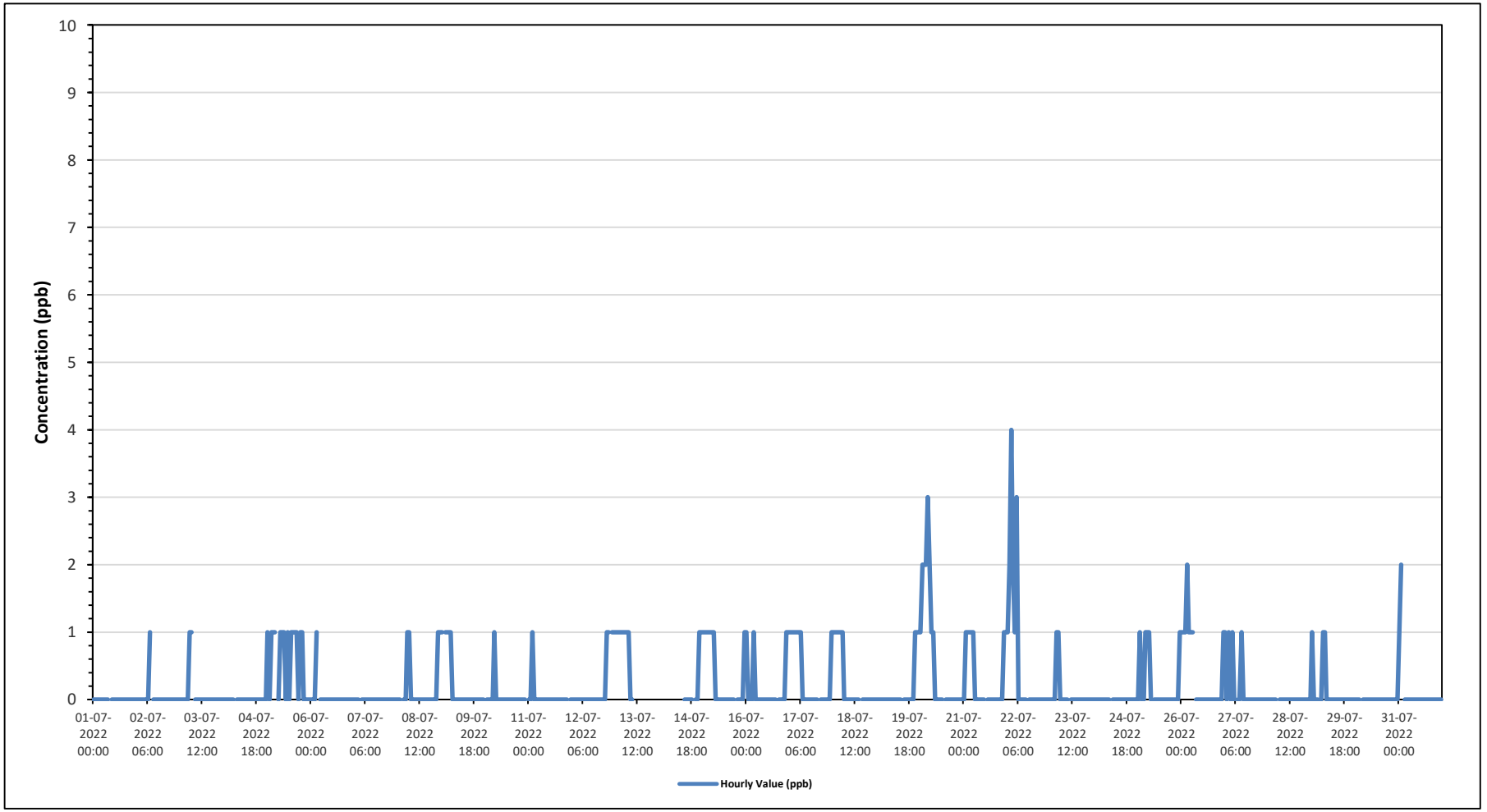
Maximum Hourly Value:	4	ppb	on July 22 at hour 2	Hours in Service:	744
Maximum Daily Value:	0.6	ppb	on July 5	Hours of Data:	685
Minimum Hourly Value:	0	ppb	on July 1 at hour 0	Hours of Missing Data:	21
Minimum Daily Value:	0.0	ppb	on July 1	Hours of Calibration:	38
Monthly Average:	0.2	ppb		Operational Uptime:	97.2

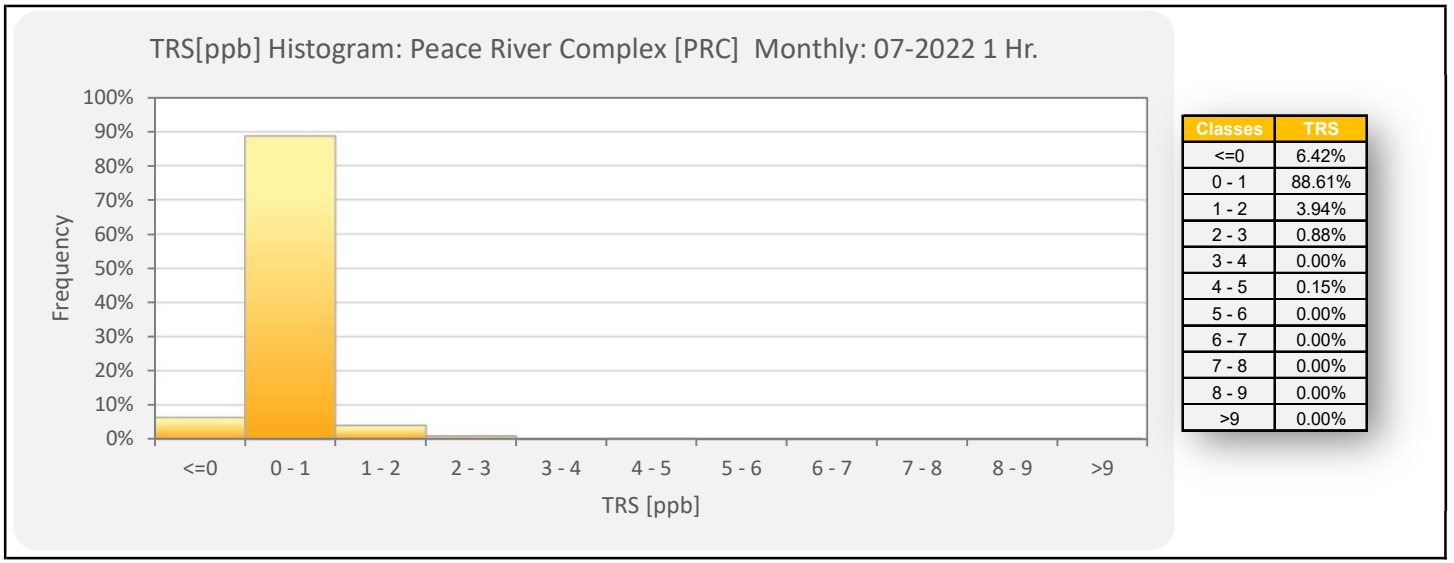
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 2	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Jul 3	0	0	0	0	0	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Jul 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
Jul 5	1	0	1	1	1	S	0	1	1	1	0	1	0	1	1	1	1	0	1	1	0	0	0	0	0	1	**0.6**
Jul 6	0	0	0	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Jul 7	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
Jul 8	0	0	S	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0.2
Jul 9	1	S	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2
Jul 10	S	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	1	0.0
Jul 11	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	1	0.0
Jul 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	S	1	1	0	1	0.2
Jul 13	1	1	1	1	1	1	1	1	0	0	C	C	C	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0	1	-
Jul 14	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	0	0	0	0	0	S	0	0	1	1	0	1	-
Jul 15	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	0	1	0.3
Jul 16	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	1	1	0	1	0.2
Jul 17	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	0	1	0.3
Jul 18	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	0.3
Jul 19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	1	1	1	0	1	0.1
Jul 20	1	2	2	2	3	2	1	1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	3	**0.6**
Jul 21	0	1	1	1	1	1	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	1	1	0	1	0.3
Jul 22	1	2	**4**	2	1	3	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**	0.6
Jul 23	0	0	0	1	1	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Jul 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
Jul 25	0	1	0	0	1	1	1	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0.2
Jul 26	1	1	1	2	1	1	1	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0.4
Jul 27	1	0	1	0	1	0	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.2
Jul 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
Jul 29	1	0	0	0	S	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Jul 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
Jul 31	1	2	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.1
Diurnal Maximum	1.00	2.00	4.00	2.00	3.00	3.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00			
Diurnal Average	0.45	0.45	0.57	0.54	0.57	0.57	0.32	0.18	0.04	0.07	0.00	0.04	0.00	0.04	0.03	0.03	0.03	0.00	0.03	0.07	0.03	0.03	0.21	0.34			

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



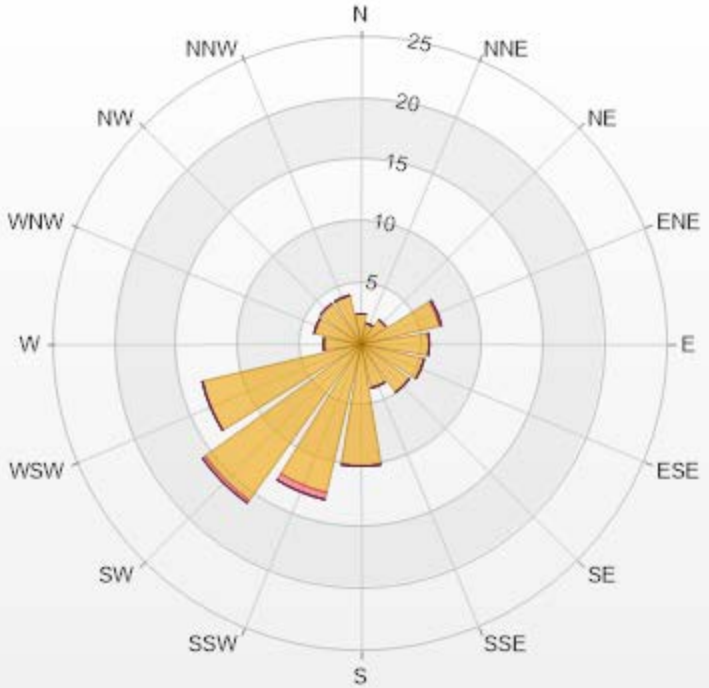


Classes	TRS
<=0	6.42%
0 - 1	88.61%
1 - 2	3.94%
2 - 3	0.88%
3 - 4	0.00%
4 - 5	0.15%
5 - 6	0.00%
6 - 7	0.00%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-TRS[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 92.07% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	2.48	0	0	0	0	2.48
NNE	1.75	0	0	0	0	1.75
NE	2.48	0	0	0	0	2.48
ENE	6.57	0.15	0	0	0	6.72
E	5.55	0	0	0	0	5.55
ESE	5.26	0	0	0	0	5.26
SE	4.82	0	0	0	0	4.82
SSE	3.65	0	0	0	0	3.65
S	9.93	0	0	0	0	9.93
SSW	12.41	0.58	0	0	0	12.99
SW	15.62	0.29	0	0	0	15.91
WSW	13.28	0	0	0	0	13.28
W	3.07	0	0	0	0	3.07
WNW	3.94	0	0	0	0	3.94
NW	4.09	0	0	0	0	4.09
NNW	4.09	0	0	0	0	4.09
Summary	98.99	1.02	0	0	0	100

Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-TRS[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%



% Icon Classes (ppb)	99 0-2	1 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 - July 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

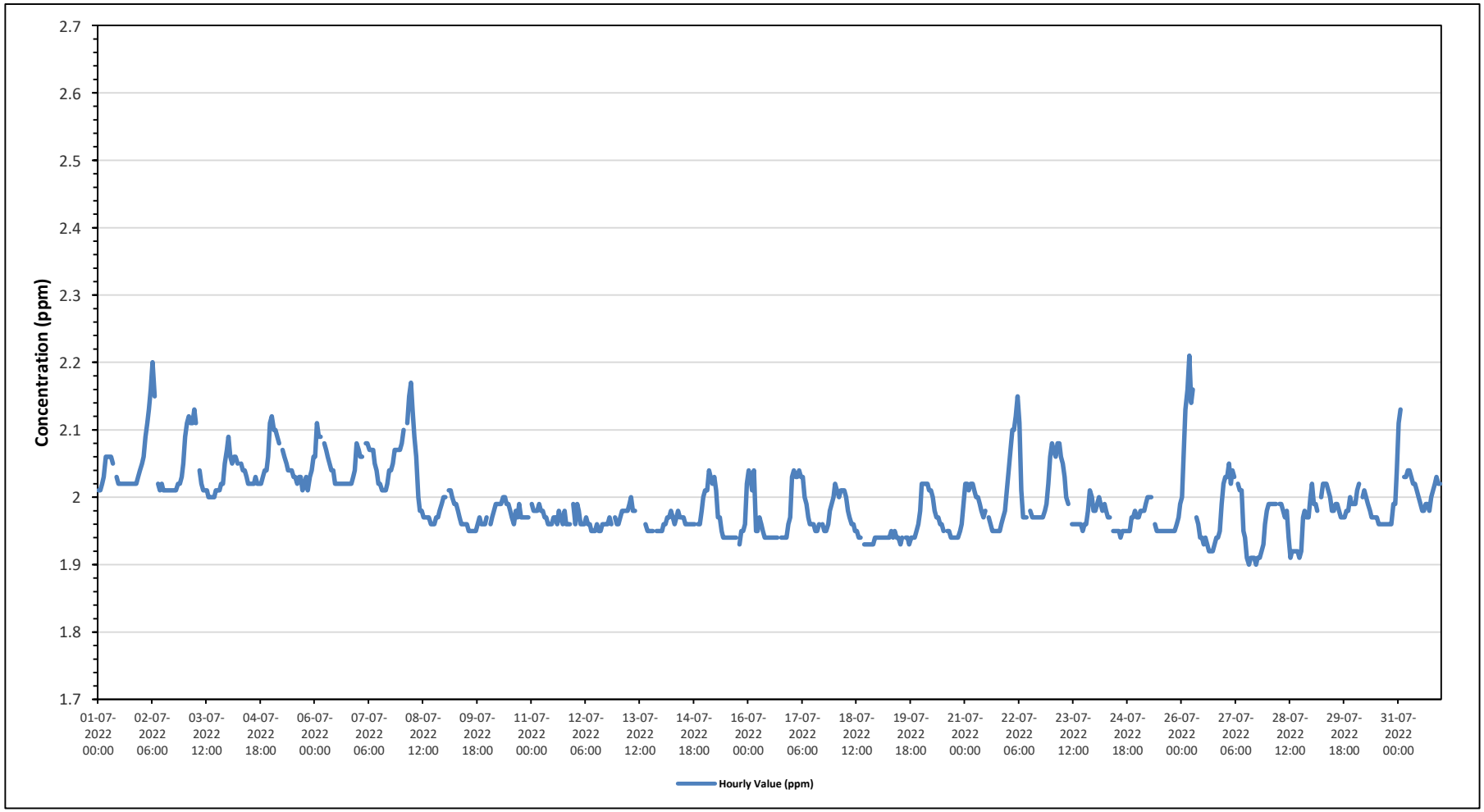
Maximum Hourly Value:	2.21	ppm	on July 26 at hour 4	Hours in Service:	744
Maximum Daily Value:	2.05	ppm	on July 2	Hours of Data:	707
Minimum Hourly Value:	1.90	ppm	on July 27 at hour 13	Hours of Missing Data:	0
Minimum Daily Value:	1.94	ppm	on July 19	Hours of Calibration:	37
Monthly Average:	1.99	ppm		Operational Uptime:	100.0

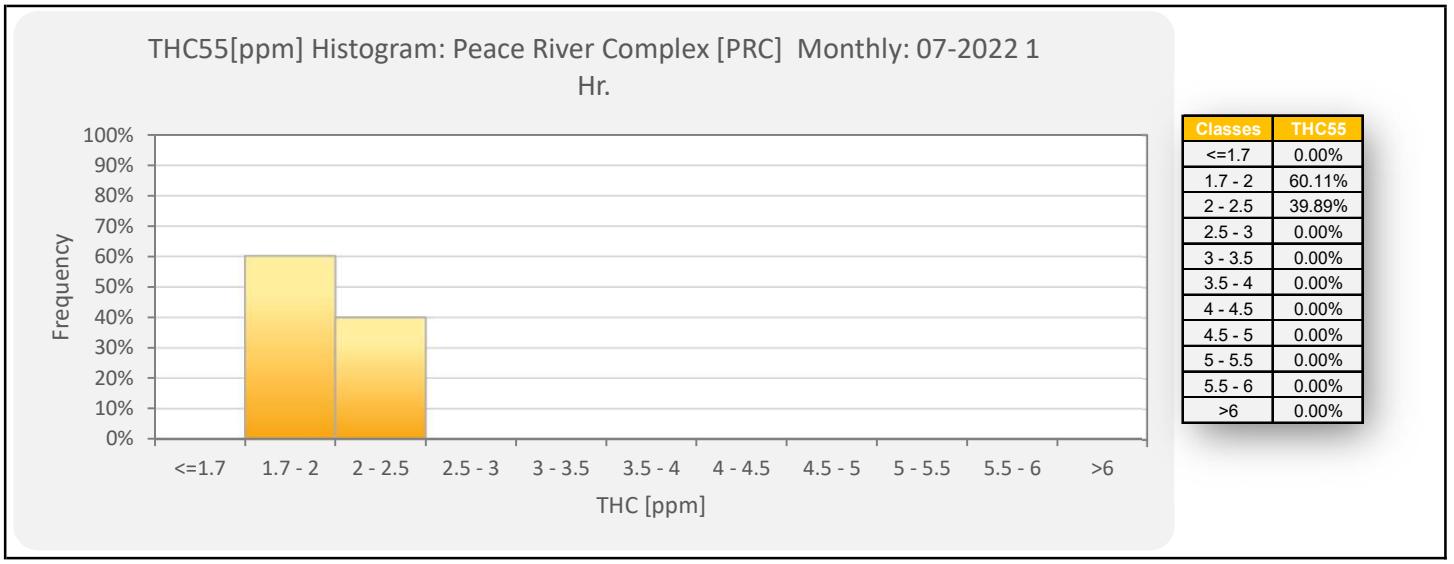
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	2.01	2.01	2.02	2.03	2.06	2.06	2.06	2.06	2.05	S	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.03	2.04	2.01	2.06	2.03
Jul 2	2.05	2.06	2.09	2.11	2.13	2.16	2.20	2.15	S	2.02	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.05	2.01	2.20	**2.05**
Jul 3	2.09	2.11	2.12	2.11	2.11	2.13	2.11	S	2.04	2.02	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.02	2.02	2.05	2.07	2.00	2.13	2.05
Jul 4	2.09	2.06	2.05	2.06	2.06	2.05	S	2.05	2.04	2.04	2.03	2.02	2.02	2.02	2.02	2.03	2.02	2.02	2.02	2.03	2.04	2.04	2.06	2.11	2.02	2.11	2.04
Jul 5	2.12	2.10	2.10	2.09	2.08	S	2.07	2.06	2.05	2.04	2.04	2.04	2.03	2.03	2.02	2.03	2.03	2.01	2.02	2.03	2.01	2.03	2.04	2.06	2.01	2.12	2.05
Jul 6	2.06	2.11	2.09	2.09	S	2.08	2.07	2.06	2.05	2.04	2.04	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.03	2.04	2.08	2.02	2.11	2.05
Jul 7	2.07	2.06	2.06	S	2.08	2.08	2.07	2.07	2.07	2.05	2.04	2.02	2.02	2.01	2.01	2.01	2.02	2.04	2.04	2.05	2.07	2.07	2.07	2.07	2.01	2.08	2.05
Jul 8	2.08	2.10	S	2.11	2.15	2.17	2.13	2.09	2.06	2.00	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.97	1.97	1.98	1.99	2.00	1.96	2.17	2.02
Jul 9	2.00	S	2.01	2.01	2.00	1.99	1.99	1.98	1.97	1.96	1.96	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.96	1.97	1.96	1.96	1.96	1.97	1.95	2.01	1.97
Jul 10	S	1.96	1.97	1.98	1.99	1.99	1.99	1.99	2.00	2.00	1.99	1.99	1.98	1.97	1.96	1.98	1.97	1.99	1.97	1.97	1.97	1.97	1.97	S	1.96	2.00	1.98
Jul 11	1.99	1.98	1.98	1.98	1.99	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.97	1.97	1.96	1.98	1.97	1.96	1.98	1.96	1.96	1.96	S	1.99	1.96	1.99	1.97
Jul 12	1.96	1.99	1.98	1.96	1.96	1.96	1.97	1.96	1.96	1.95	1.95	1.95	1.96	1.95	1.95	1.96	1.96	1.96	1.96	1.97	1.96	S	1.97	1.96	1.95	1.99	1.96
Jul 13	1.96	1.97	1.98	1.98	1.98	1.98	1.99	2.00	1.98	1.98	C	C	C	C	C	1.96	1.95	1.95	1.95	1.95	S	1.95	1.95	1.95	1.95	2.00	1.97
Jul 14	1.95	1.96	1.96	1.97	1.97	1.98	1.97	1.96	1.97	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	S	1.96	1.96	1.98	2.00	1.95	2.00	1.97
Jul 15	2.01	2.01	2.04	2.03	2.02	2.03	2.01	1.97	1.97	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	S	1.93	1.95	1.95	1.96	2.02	1.93	2.04	1.97
Jul 16	2.04	2.03	2.01	2.04	1.95	1.95	1.97	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	S	1.94	1.94	1.94	1.94	1.96	1.97	1.94	2.04	1.96
Jul 17	2.03	2.04	2.03	2.03	2.04	2.03	2.03	2.00	1.99	1.97	1.96	1.96	1.96	1.95	1.95	1.96	S	1.96	1.95	1.95	1.96	1.98	1.99	2.00	1.95	2.04	1.99
Jul 18	2.02	2.01	2.00	2.01	2.01	2.01	2.00	1.98	1.97	1.96	1.96	1.95	1.95	1.94	1.94	S	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.94	1.93	2.02	1.96
Jul 19	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.94	1.95	1.94	1.94	1.93	1.94	S	1.94	1.94	1.93	1.94	1.94	1.94	1.95	1.96	1.98	1.93	1.98	1.94
Jul 20	2.02	2.02	2.02	2.02	2.01	2.01	2.00	1.98	1.97	1.97	1.96	1.96	1.95	S	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.99	1.94	2.02	1.97
Jul 21	2.02	2.02	2.01	2.02	2.02	2.01	2.00	2.00	1.99	1.98	1.97	1.98	S	1.97	1.96	1.95	1.95	1.95	1.95	1.95	1.96	1.97	1.98	2.01	1.95	2.02	1.98
Jul 22	2.04	2.07	2.10	2.10	2.12	2.15	2.11	2.01	1.97	1.97	1.97	S	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	2.02	2.06	1.97	2.15	2.02
Jul 23	2.08	2.07	2.06	2.08	2.08	2.06	2.05	2.03	2.00	1.99	S	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.96	1.98	2.01	2.00	1.98	1.95	2.08	2.00
Jul 24	1.98	1.99	2.00	1.99	1.98	1.99	1.98	1.97	1.97	S	1.95	1.95	1.95	1.95	1.94	1.95	1.95	1.95	1.95	1.95	1.97	1.97	1.98	1.97	1.94	2.00	1.97
Jul 25	1.97	1.98	1.98	1.98	1.99	2.00	2.00	2.00	S	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.97	1.99	1.95	2.00	1.97
Jul 26	2.00	2.07	2.13	2.16	**2.21**	2.14	2.16	S	1.97	1.96	1.94	1.94	1.93	1.94	1.93	1.92	1.92	1.92	1.93	1.94	1.94	1.95	1.99	2.02	1.92	**2.21**	2.00
Jul 27	2.03	2.03	2.05	2.02	2.04	2.03	S	2.02	2.01	2.01	1.95	1.94	1.91	1.90	1.91	1.91	1.91	1.90	1.91	1.91	1.92	1.93	1.96	1.98	**1.90**	2.05	1.96
Jul 28	1.99	1.99	1.99	1.99	1.99	S	1.99	1.99	1.98	1.97	1.98	1.94	1.91	1.92	1.92	1.92	1.92	1.91	1.92	1.97	1.98	1.97	1.97	2.00	1.91	2.00	1.96
Jul 29	2.02	1.99	1.99	1.98	S	2.00	2.02	2.02	2.02	2.01	2.00	1.98	1.98	1.99	1.99	1.98	1.97	1.97	1.97	1.98	1.98	2.00	1.99	1.99	1.97	2.02	1.99
Jul 30	1.99	2.01	2.02	S	2.00	2.01	2.00	1.99	1.98	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.99	1.99	2.04	1.96	2.04	1.98
Jul 31	2.11	2.13	S	2.03	2.03	2.04	2.04	2.03	2.02	2.02	2.01	2.00	1.99	1.98	1.98	1.99	1.99	1.98	2.00	2.01	2.02	2.03	2.02	2.02	1.98	2.13	2.02
Diurnal Maximum	2.12	2.13	2.13	2.16	2.21	2.17	2.20	2.15	2.07	2.05	2.04	2.04	2.03	2.03	2.02	2.03	2.03	2.04	2.04	2.05	2.07	2.07	2.07	2.11			
Diurnal Average	2.02	2.03	2.03	2.03	2.03	2.03	2.03	2.01	2.00	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.99	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 - Peace River Complex (PRC) Station

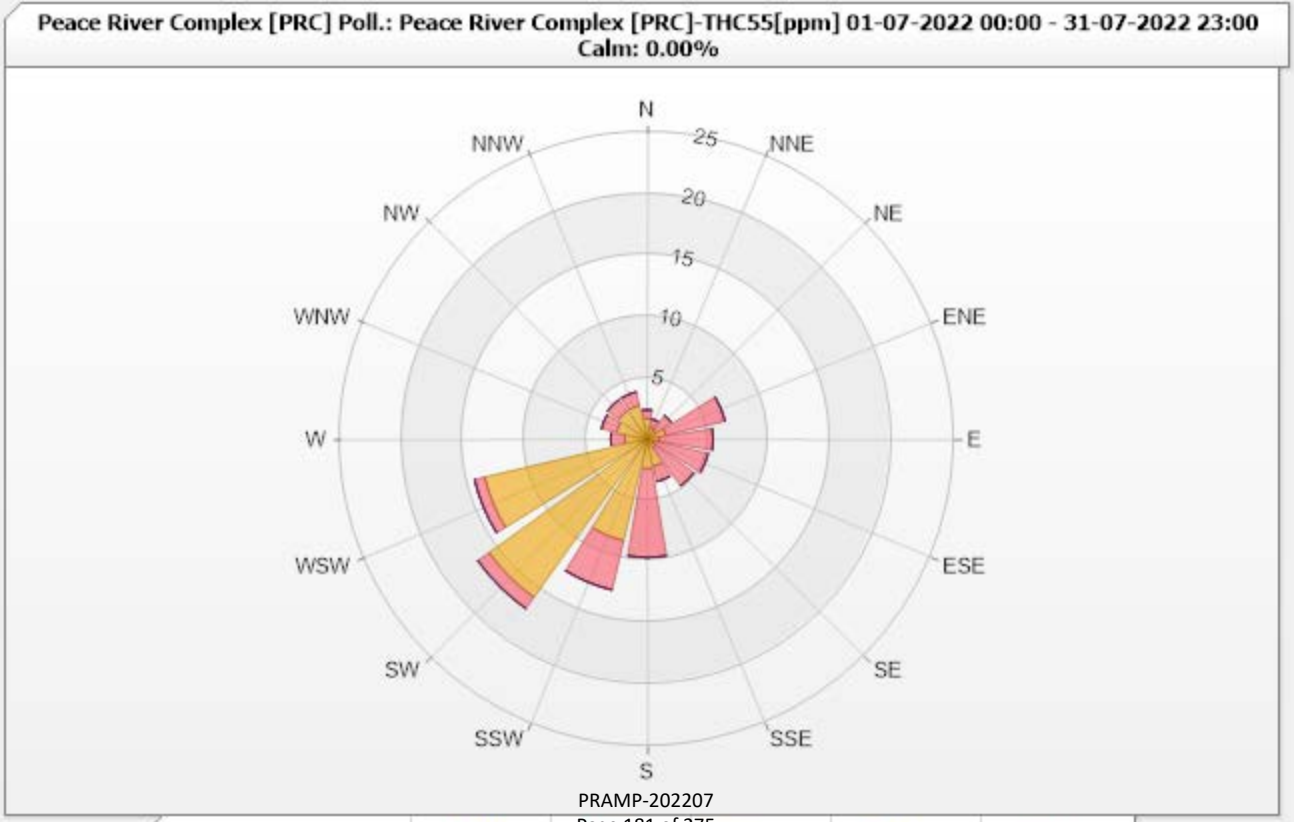




Classes	THC55
<=1.7	0.00%
1.7 - 2	60.11%
2 - 2.5	39.89%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-THC55[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.03% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	1.7	0.71	0	0	0	2.41
NNE	0.99	0.71	0	0	0	1.7
NE	0.85	1.56	0	0	0	2.41
ENE	1.56	4.95	0	0	0	6.51
E	0.99	4.38	0	0	0	5.37
ESE	0.57	4.53	0	0	0	5.1
SE	0.85	3.82	0	0	0	4.67
SSE	2.26	1.27	0	0	0	3.53
S	2.4	7.21	0	0	0	9.61
SSW	8.49	4.1	0	0	0	12.59
SW	15.84	1.13	0	0	0	16.97
WSW	13.58	0.85	0	0	0	14.43
W	1.84	1.13	0	0	0	2.97
WNW	2.55	1.27	0	0	0	3.82
NW	2.83	1.13	0	0	0	3.96
NNW	2.83	1.13	0	0	0	3.96
Summary	60.13	39.88	0	0	0	100


Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-THC55[ppm] 01-07-2022 00:00 - 31-07-2022 23:00
Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (ppm)
60 0-2
40 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 - July 2022

Summary of Hourly Averages

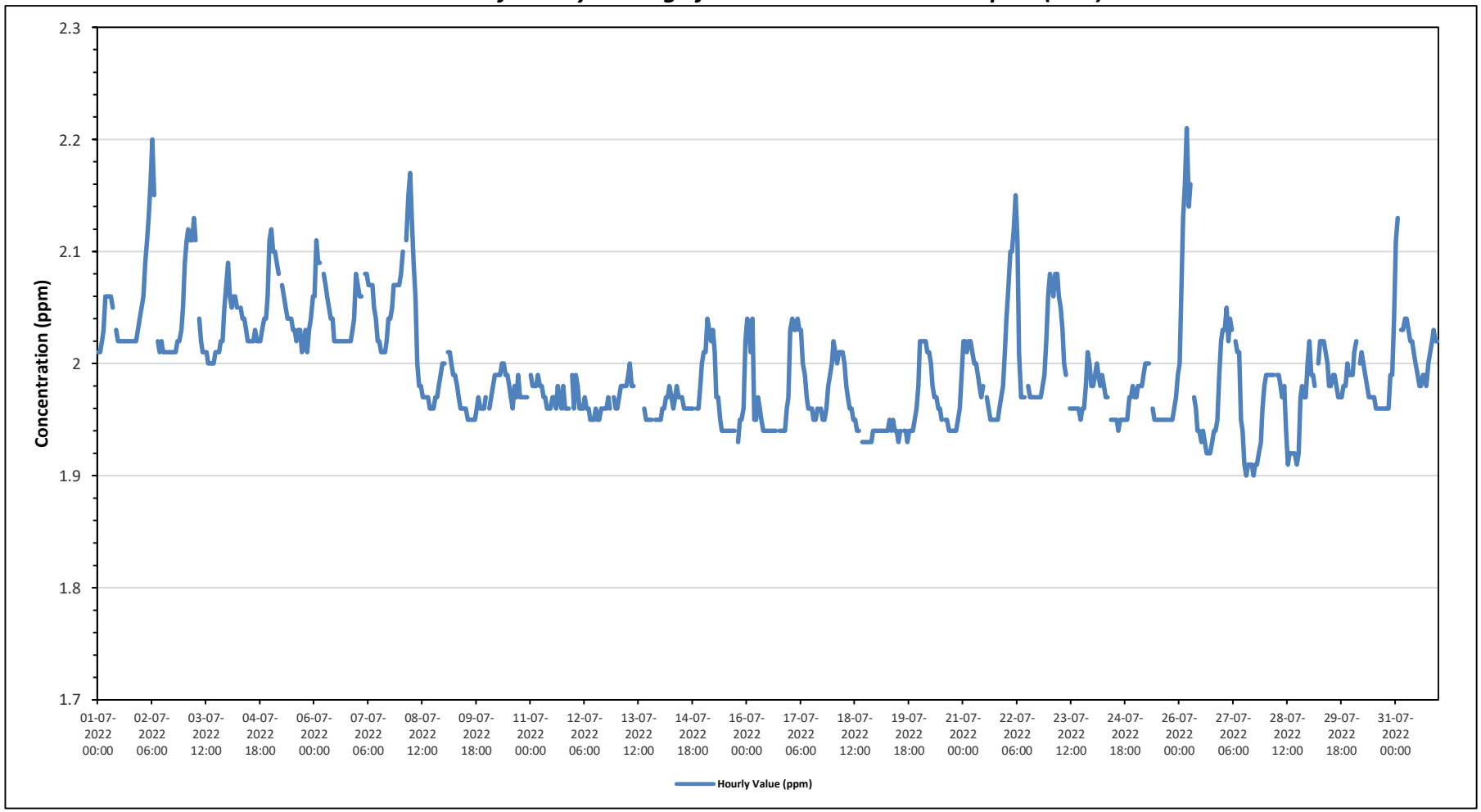
METHANE (CH4) in ppm

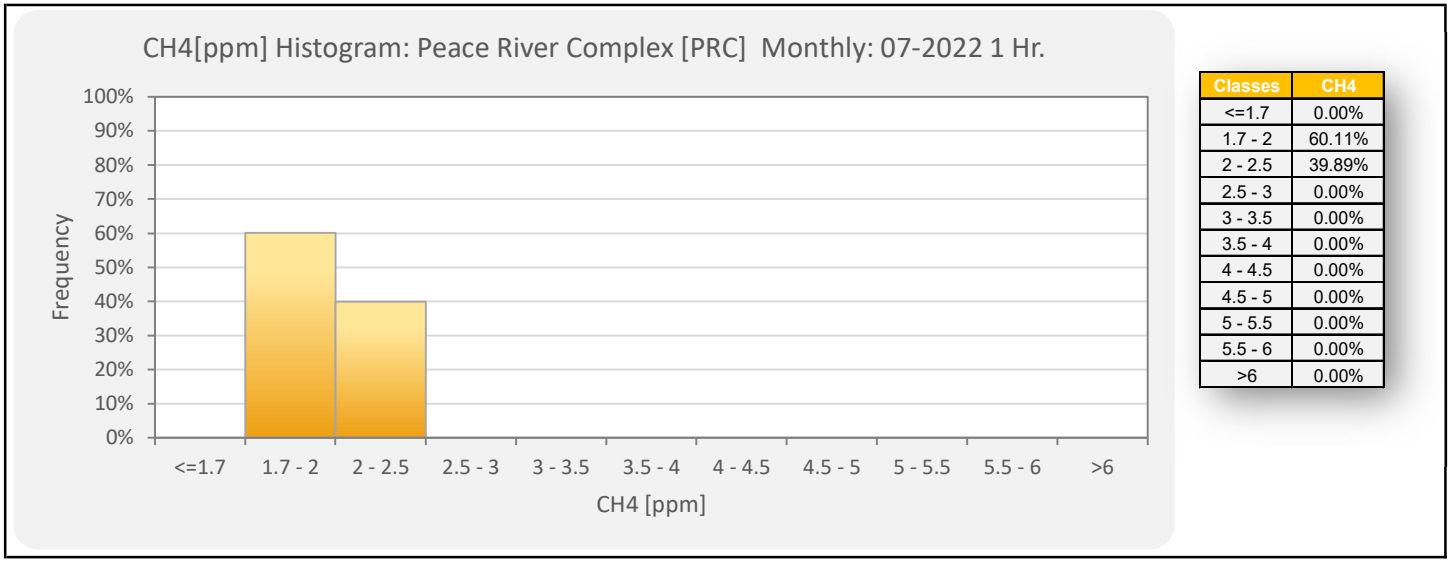
Maximum Hourly Value:	2.21	ppm	on July 26 at hour 4	Hours in Service:	744
Maximum Daily Value:	2.05	ppm	on July 2	Hours of Data:	707
Minimum Hourly Value:	1.90	ppm	on July 27 at hour 13	Hours of Missing Data:	0
Minimum Daily Value:	1.94	ppm	on July 19	Hours of Calibration:	37
Monthly Average:	1.99	ppm		Operational Uptime:	100.0

Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	2.01	2.01	2.02	2.03	2.06	2.06	2.06	2.06	2.05	S	2.03	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.03	2.04	2.01	2.06	2.03
Jul 2	2.05	2.06	2.09	2.11	2.13	2.16	2.20	2.15	S	2.02	2.01	2.02	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.02	2.02	2.03	2.05	2.01	2.20	**2.05**
Jul 3	2.09	2.11	2.12	2.11	2.11	2.13	2.11	S	2.04	2.02	2.01	2.01	2.01	2.00	2.00	2.00	2.00	2.01	2.01	2.01	2.02	2.02	2.05	2.07	2.00	2.13	2.05
Jul 4	2.09	2.06	2.05	2.06	2.06	2.05	S	2.05	2.04	2.04	2.03	2.02	2.02	2.02	2.02	2.03	2.02	2.02	2.02	2.03	2.04	2.04	2.06	2.11	2.02	2.11	2.04
Jul 5	2.12	2.10	2.10	2.09	2.08	S	2.07	2.06	2.05	2.04	2.04	2.04	2.03	2.03	2.02	2.03	2.03	2.01	2.02	2.03	2.01	2.03	2.04	2.06	2.01	2.12	2.05
Jul 6	2.06	2.11	2.09	2.09	S	2.08	2.07	2.06	2.05	2.04	2.04	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.02	2.03	2.04	2.08	2.02	2.11	2.05
Jul 7	2.07	2.06	2.06	S	2.08	2.08	2.07	2.07	2.07	2.05	2.04	2.02	2.02	2.01	2.01	2.01	2.02	2.04	2.04	2.05	2.07	2.07	2.07	2.07	2.01	2.08	2.05
Jul 8	2.08	2.10	S	2.11	2.15	2.17	2.13	2.09	2.06	2.00	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.97	1.97	1.98	1.99	2.00	1.96	2.17	2.02
Jul 9	2.00	S	2.01	2.01	2.00	1.99	1.99	1.98	1.97	1.96	1.96	1.96	1.96	1.95	1.95	1.95	1.95	1.95	1.96	1.97	1.96	1.96	1.96	1.97	1.95	2.01	1.97
Jul 10	S	1.96	1.97	1.98	1.99	1.99	1.99	1.99	2.00	2.00	1.99	1.99	1.98	1.97	1.96	1.98	1.97	1.99	1.97	1.97	1.97	1.97	1.97	S	1.96	2.00	1.98
Jul 11	1.99	1.98	1.98	1.98	1.99	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.97	1.97	1.96	1.98	1.97	1.96	1.98	1.96	1.96	1.96	S	1.99	1.96	1.99	1.97
Jul 12	1.96	1.99	1.98	1.96	1.96	1.96	1.97	1.96	1.96	1.95	1.95	1.95	1.96	1.95	1.95	1.96	1.96	1.96	1.96	1.97	1.96	S	1.97	1.96	1.95	1.99	1.96
Jul 13	1.96	1.97	1.98	1.98	1.98	1.98	1.99	2.00	1.98	1.98	C	C	C	C	C	1.96	1.95	1.95	1.95	1.95	S	1.95	1.95	1.95	1.95	2.00	1.97
Jul 14	1.95	1.96	1.96	1.97	1.97	1.98	1.97	1.96	1.97	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	S	1.96	1.96	1.98	2.00	1.95	2.00	1.97
Jul 15	2.01	2.01	2.04	2.03	2.02	2.03	2.01	1.97	1.97	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	S	1.93	1.95	1.95	1.96	2.02	1.93	2.04	1.97
Jul 16	2.04	2.03	2.01	2.04	1.95	1.95	1.97	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	S	1.94	1.94	1.94	1.94	1.96	1.97	1.94	2.04	1.96
Jul 17	2.03	2.04	2.03	2.03	2.04	2.03	2.03	2.00	1.99	1.97	1.96	1.96	1.96	1.95	1.95	1.96	S	1.96	1.95	1.95	1.96	1.98	1.99	2.00	1.95	2.04	1.99
Jul 18	2.02	2.01	2.00	2.01	2.01	2.01	2.00	1.98	1.97	1.96	1.96	1.95	1.95	1.94	1.94	S	1.93	1.93	1.93	1.93	1.93	1.93	1.94	1.94	1.93	2.02	1.96
Jul 19	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.94	1.95	1.94	1.94	1.93	1.94	S	1.94	1.94	1.93	1.94	1.94	1.94	1.95	1.96	1.98	1.93	1.98	1.94
Jul 20	2.02	2.02	2.02	2.02	2.01	2.01	2.00	1.98	1.97	1.97	1.96	1.96	1.95	S	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.99	1.94	2.02	1.97
Jul 21	2.02	2.02	2.01	2.02	2.02	2.01	2.00	2.00	1.99	1.98	1.97	1.98	S	1.97	1.96	1.95	1.95	1.95	1.95	1.95	1.96	1.97	1.98	2.01	1.95	2.02	1.98
Jul 22	2.04	2.07	2.10	2.10	2.12	2.15	2.11	2.01	1.97	1.97	1.97	S	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.99	2.02	2.06	1.97	2.15	2.02
Jul 23	2.08	2.07	2.06	2.08	2.08	2.06	2.05	2.03	2.00	1.99	S	1.96	1.96	1.96	1.96	1.96	1.96	1.95	1.96	1.96	1.98	2.01	2.00	1.98	1.95	2.08	2.00
Jul 24	1.98	1.99	2.00	1.99	1.98	1.99	1.98	1.97	1.97	S	1.95	1.95	1.95	1.95	1.94	1.95	1.95	1.95	1.95	1.95	1.97	1.97	1.98	1.97	1.94	2.00	1.97
Jul 25	1.97	1.98	1.98	1.98	1.99	2.00	2.00	2.00	S	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.96	1.97	1.99	1.95	2.00	1.97
Jul 26	2.00	2.07	2.13	2.16	**2.21**	2.14	2.16	S	1.97	1.96	1.94	1.94	1.93	1.94	1.93	1.92	1.92	1.92	1.93	1.94	1.94	1.95	1.99	2.02	1.92	**2.21**	2.00
Jul 27	2.03	2.03	2.05	2.02	2.04	2.03	S	2.02	2.01	2.01	1.95	1.94	1.91	1.90	1.91	1.91	1.91	1.90	1.91	1.91	1.92	1.93	1.96	1.98	**1.90**	2.05	1.96
Jul 28	1.99	1.99	1.99	1.99	1.99	S	1.99	1.99	1.98	1.97	1.98	1.94	1.91	1.92	1.92	1.92	1.92	1.91	1.92	1.97	1.98	1.97	1.97	2.00	1.91	2.00	1.96
Jul 29	2.02	1.99	1.99	1.98	S	2.00	2.02	2.02	2.02	2.01	2.00	1.98	1.98	1.99	1.99	1.98	1.97	1.97	1.97	1.98	1.98	2.00	1.99	1.99	1.97	2.02	1.99
Jul 30	1.99	2.01	2.02	S	2.00	2.01	2.00	1.99	1.98	1.97	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.99	1.99	2.04	1.96	2.04	1.98
Jul 31	2.11	2.13	S	2.03	2.03	2.04	2.04	2.03	2.02	2.02	2.01	2.00	1.99	1.98	1.98	1.99	1.99	1.98	2.00	2.01	2.02	2.03	2.02	2.02	1.98	2.13	2.02
Diurnal Maximum	2.12	2.13	2.13	2.16	2.21	2.17	2.20	2.15	2.07	2.05	2.04	2.04	2.03	2.03	2.02	2.03	2.03	2.04	2.04	2.05	2.07	2.07	2.07	2.11			
Diurnal Average	2.02	2.03	2.03	2.03	2.03	2.03	2.03	2.01	2.00	1.99	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.99	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 - Peace River Complex (PRC) Station
Concentration (ppm)
2.3
2.2
2.1
2
1.9
1.8
1.7
01-07-2022 00:00
02-07-2022 06:00
03-07-2022 12:00
04-07-2022 18:00
06-07-2022 00:00
07-07-2022 06:00
08-07-2022 12:00
09-07-2022 18:00
11-07-2022 00:00
12-07-2022 06:00
13-07-2022 12:00
14-07-2022 18:00
16-07-2022 00:00
17-07-2022 06:00
18-07-2022 12:00
19-07-2022 18:00
21-07-2022 00:00
22-07-2022 06:00
23-07-2022 12:00
24-07-2022 18:00
26-07-2022 00:00
27-07-2022 06:00
28-07-2022 12:00
29-07-2022 18:00
31-07-2022 00:00
Hourly Value (ppm)

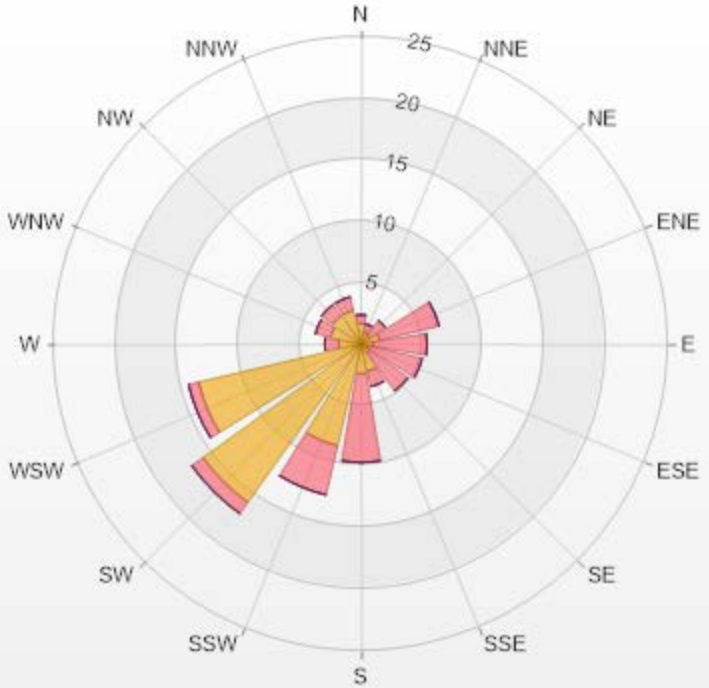


Classes	CH4
<=1.7	0.00%
1.7 - 2	60.11%
2 - 2.5	39.89%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-CH4[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.03% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	1.7	0.71	0	0	0	2.41
NNE	0.99	0.71	0	0	0	1.7
NE	0.85	1.56	0	0	0	2.41
ENE	1.56	4.95	0	0	0	6.51
E	0.99	4.38	0	0	0	5.37
ESE	0.57	4.53	0	0	0	5.1
SE	0.85	3.82	0	0	0	4.67
SSE	2.26	1.27	0	0	0	3.53
S	2.4	7.21	0	0	0	9.61
SSW	8.49	4.1	0	0	0	12.59
SW	15.84	1.13	0	0	0	16.97
WSW	13.58	0.85	0	0	0	14.43
W	1.84	1.13	0	0	0	2.97
WNW	2.55	1.27	0	0	0	3.82
NW	2.83	1.13	0	0	0	3.96
NNW	2.83	1.13	0	0	0	3.96
Summary	60.13	39.88	0	0	0	100

Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-CH4[ppm] 01-07-2022 00:00 - 31-07-2022 23:00
Calm: 0.00%



% Icon Classes (ppm)	60 0-2	40 2-5	0 5-10	0 10-20	0 >20.0

peace river area monitoring program
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PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - July 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

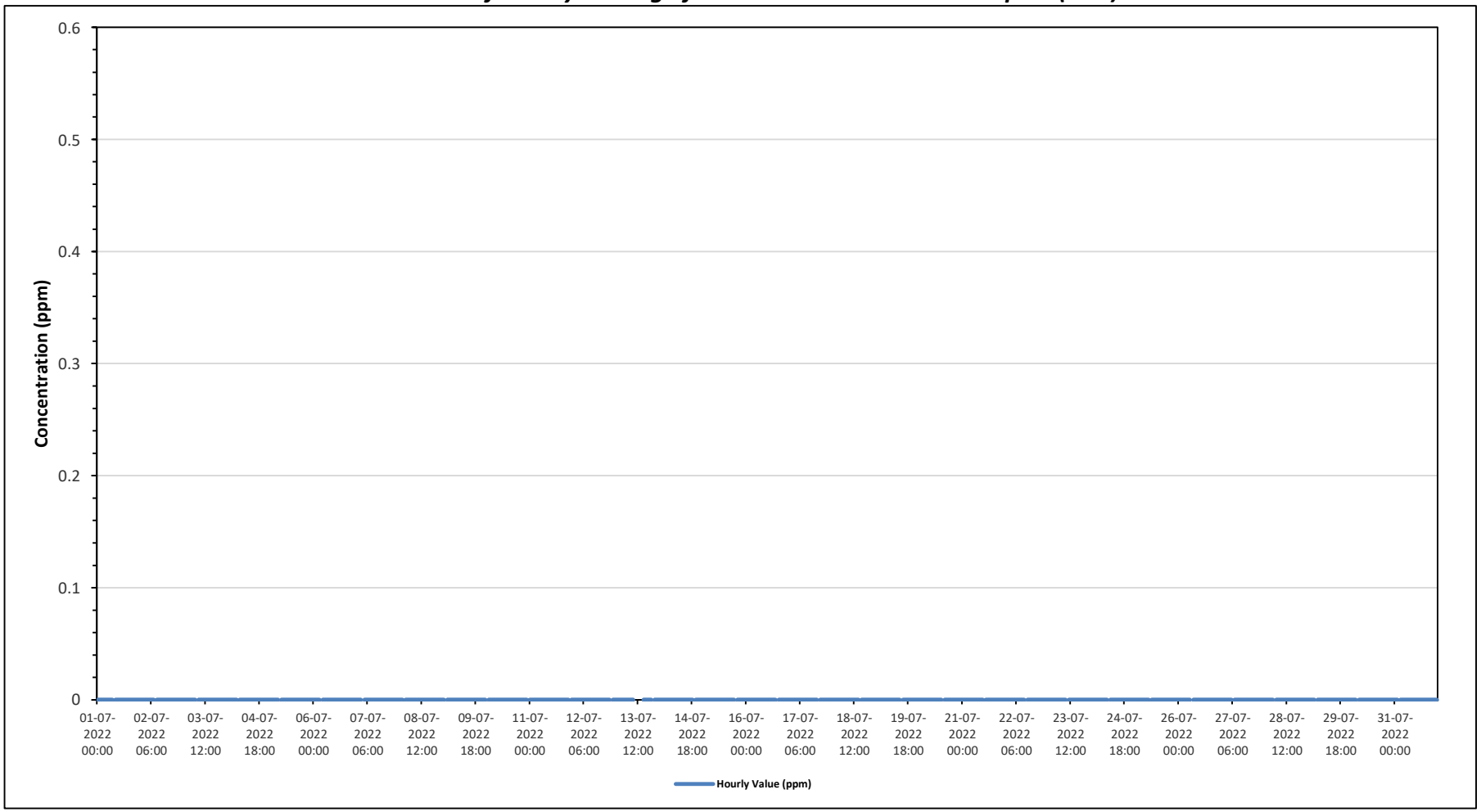
Maximum Hourly Value:	0.00	ppm	on July 1 at hour 0	Hours in Service:	744
Maximum Daily Value:	0.00	ppm	on July 1	Hours of Data:	707
Minimum Hourly Value:	0.00	ppm	on July 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.00	ppm	on July 1	Hours of Calibration:	37
Monthly Average:	0.00	ppm		Operational Uptime:	100.0

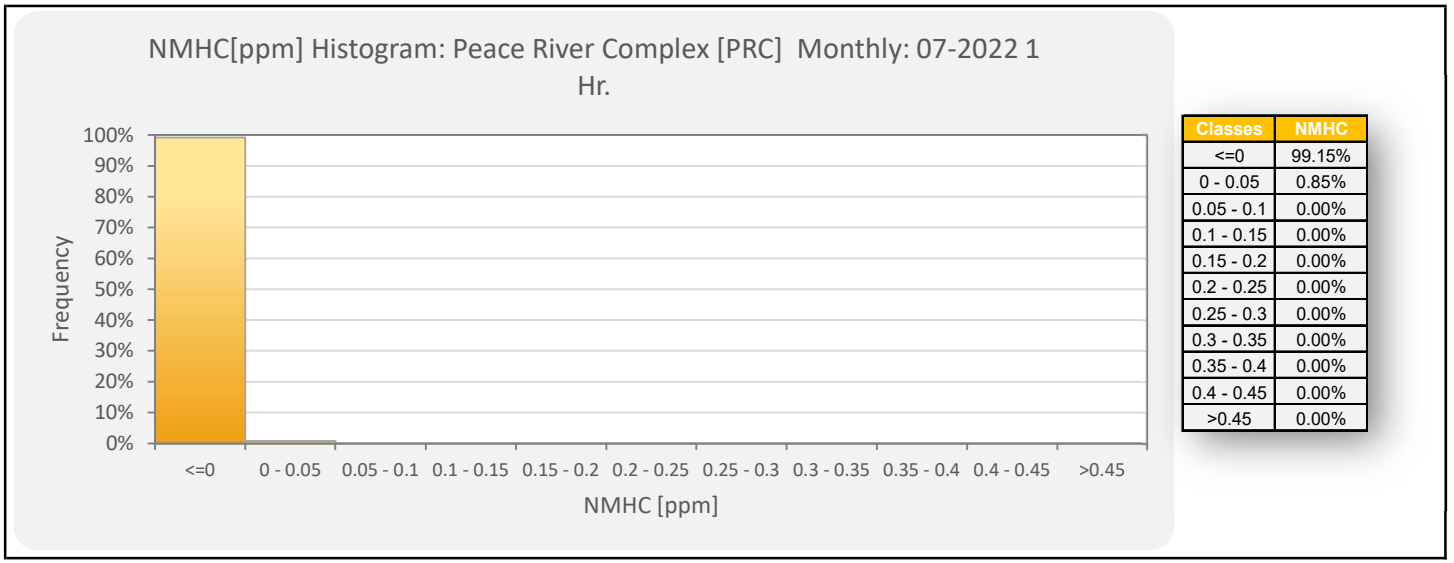
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00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



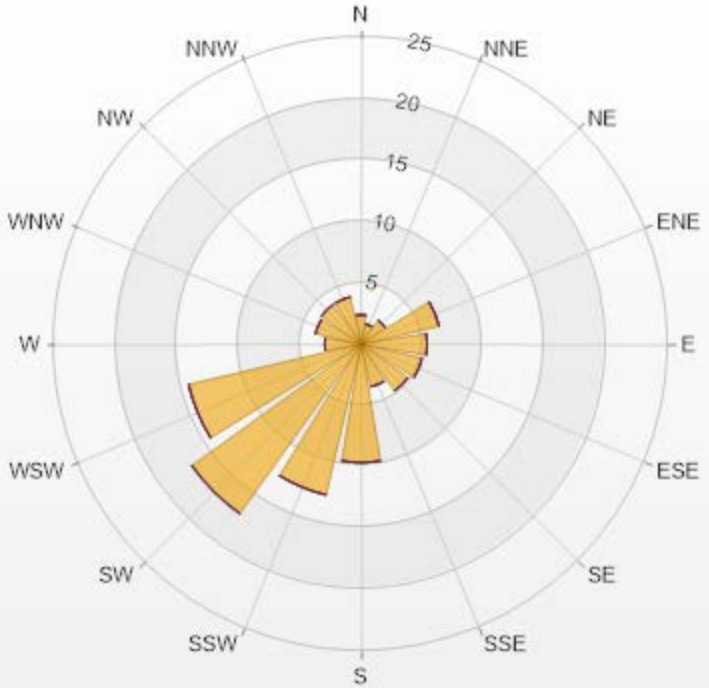


Classes	NMHC
<=0	99.15%
0 - 0.05	0.85%
0.05 - 0.1	0.00%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-NMHC[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 95.03% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	2.4	0	0	0	0	2.4
NNE	1.7	0	0	0	0	1.7
NE	2.4	0	0	0	0	2.4
ENE	6.51	0	0	0	0	6.51
E	5.37	0	0	0	0	5.37
ESE	5.09	0	0	0	0	5.09
SE	4.67	0	0	0	0	4.67
SSE	3.54	0	0	0	0	3.54
S	9.62	0	0	0	0	9.62
SSW	12.59	0	0	0	0	12.59
SW	16.97	0	0	0	0	16.97
WSW	14.43	0	0	0	0	14.43
W	2.97	0	0	0	0	2.97
WNW	3.82	0	0	0	0	3.82
NW	3.96	0	0	0	0	3.96
NNW	3.96	0	0	0	0	3.96
Summary	100	0	0	0	0	100

Peace River Complex [PRC] Poll.: Peace River Complex [PRC]-NMHC[ppm] 01-07-2022 00:00 - 31-07-2022 23:00
Calm: 0.00%



% 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

Peace River Complex (PRC) Station - July 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

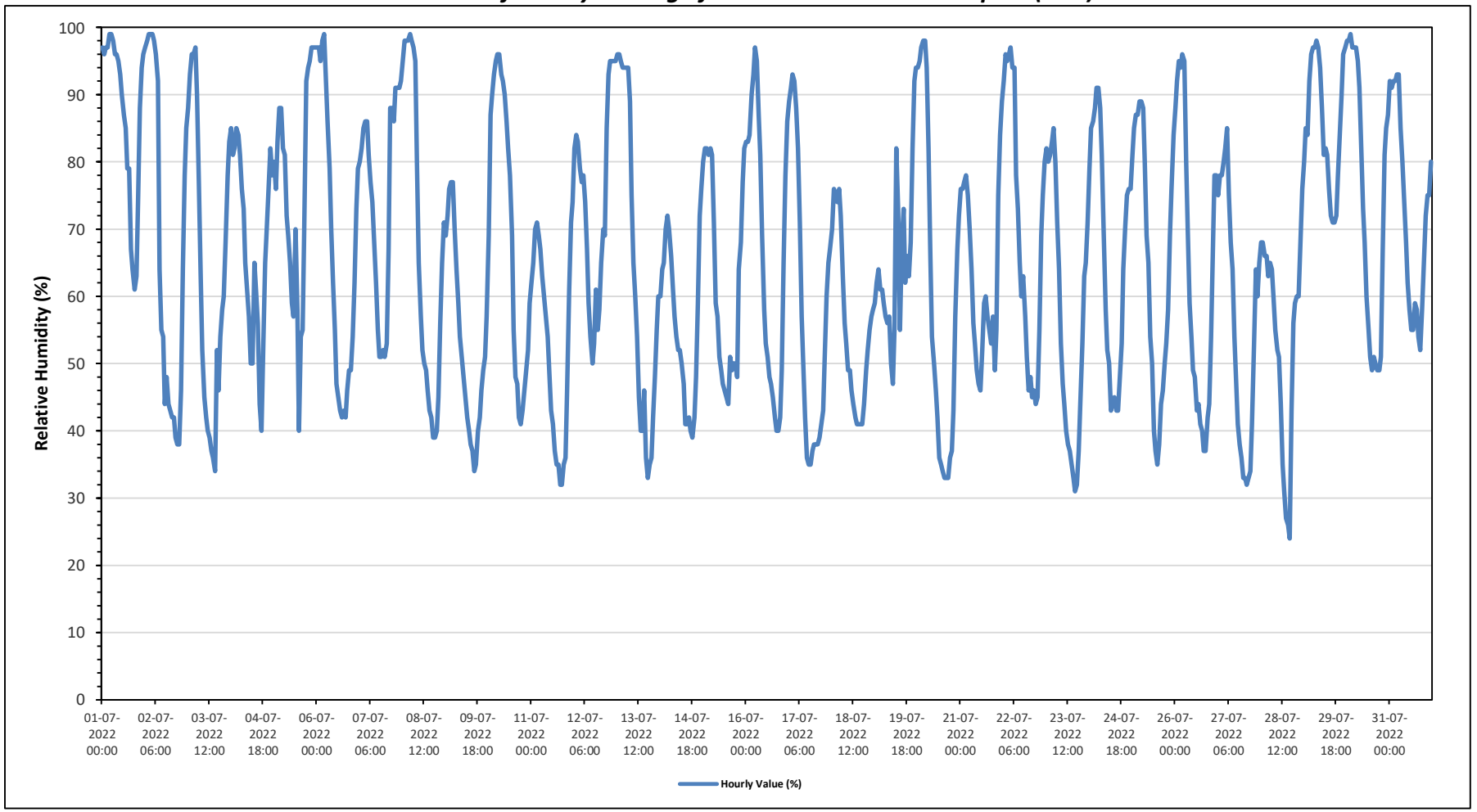
Maximum Hourly Value:	99	%	on July 1 at hour 4	Hours in Service:	744
Maximum Daily Value:	87.1	%	on July 1	Hours of Data:	744
Minimum Hourly Value:	24	%	on July 28 at hour 16	Hours of Missing Data:	0
Minimum Daily Value:	52.7	%	on July 11	Hours of Calibration:	0
Monthly Average:	65.5	%		Operational Uptime:	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
Jul 1	97	96	97	97	**99**	**99**	98	96	96	95	93	90	87	85	79	79	67	64	61	63	74	88	94	96	61	**99**	**87.1**
Jul 2	97	98	**99**	**99**	**99**	98	96	92	64	55	54	44	48	44	43	42	42	39	38	38	46	64	78	85	38	**99**	66.8
Jul 3	88	93	96	96	97	90	77	63	52	45	42	40	39	37	36	34	52	46	54	58	60	68	78	83	34	97	63.5
Jul 4	85	81	82	85	84	81	76	73	65	61	57	50	50	65	61	56	44	40	53	65	70	76	82	78	40	85	67.5
Jul 5	80	76	83	88	88	82	81	72	69	65	59	57	70	58	40	54	55	70	92	94	95	97	97	97	40	97	75.8
Jul 6	97	97	95	98	**99**	93	86	79	70	62	55	47	45	43	42	43	42	46	49	49	54	62	73	79	42	**99**	66.9
Jul 7	80	82	85	86	86	81	77	74	68	62	55	51	51	52	51	53	67	88	88	86	91	91	91	92	51	92	74.5
Jul 8	95	98	98	98	**99**	98	97	95	80	65	57	52	50	49	46	43	42	39	39	40	45	56	65	71	39	**99**	67.4
Jul 9	69	72	76	77	77	70	64	59	54	51	48	45	42	40	38	37	34	35	40	42	46	49	51	57	34	77	53.0
Jul 10	69	87	90	93	95	96	96	93	92	90	86	82	78	69	55	48	47	42	41	43	46	49	52	59	41	96	70.8
Jul 11	62	65	70	71	69	67	63	60	57	54	48	43	41	37	35	35	32	32	35	36	46	61	71	74	32	74	52.7
Jul 12	82	84	83	79	77	78	74	67	59	54	50	53	61	55	58	65	70	69	85	93	95	95	95	95	50	95	74.0
Jul 13	96	96	95	94	94	94	94	89	75	65	60	54	45	40	40	46	36	33	35	36	42	48	55	60	33	96	63.4
Jul 14	60	64	65	70	72	70	66	61	57	54	52	52	50	47	41	41	42	40	39	42	48	59	72	76	39	76	55.8
Jul 15	80	82	82	81	82	81	71	59	57	51	49	47	46	45	44	51	49	50	50	48	64	68	77	82	44	82	62.3
Jul 16	83	83	84	90	93	97	95	87	81	69	58	53	51	48	47	45	42	40	40	42	49	65	78	86	40	97	66.9
Jul 17	89	91	93	92	88	82	71	57	50	42	36	35	35	37	38	38	38	39	41	43	51	60	65	67	35	93	57.4
Jul 18	70	76	75	74	76	72	63	56	53	49	49	46	44	42	41	41	41	41	44	49	52	55	57	58	41	76	55.2
Jul 19	59	62	64	61	61	59	57	56	57	50	47	55	82	73	55	68	73	62	66	63	68	82	92	94	47	94	65.3
Jul 20	94	95	97	98	98	94	82	66	54	50	46	42	36	35	34	33	33	33	36	37	43	57	67	72	33	98	59.7
Jul 21	76	76	77	78	75	70	64	56	53	49	47	46	52	59	60	57	55	53	57	49	55	75	84	89	46	89	63.0
Jul 22	92	96	95	96	97	94	94	78	73	65	60	63	57	51	46	48	45	46	44	45	55	69	75	80	44	97	69.3
Jul 23	82	80	81	83	85	80	71	64	53	47	44	40	38	37	35	33	31	32	37	44	53	63	65	71	31	85	56.2
Jul 24	79	85	86	88	91	91	88	81	70	58	52	50	43	44	45	43	43	48	53	64	70	75	76	76	43	91	66.6
Jul 25	81	85	87	87	89	89	88	80	69	65	54	50	40	37	35	38	44	46	50	53	58	69	76	84	35	89	64.8
Jul 26	88	92	95	94	96	95	80	70	59	54	49	48	43	44	41	40	37	37	42	44	54	67	78	78	37	96	63.5
Jul 27	75	78	78	80	82	85	75	68	64	54	48	41	38	36	33	33	32	33	34	41	53	64	60	65	32	85	56.3
Jul 28	68	68	66	66	63	65	64	60	55	52	51	44	35	31	27	26	**24**	43	56	59	60	60	68	76	**24**	76	53.6
Jul 29	80	85	84	92	96	97	97	98	97	94	88	81	82	81	76	72	71	71	72	78	84	90	96	97	71	98	85.8
Jul 30	98	98	**99**	97	97	97	95	91	82	73	68	60	55	51	49	51	50	49	49	51	67	81	85	87	49	**99**	74.2
Jul 31	92	91	92	92	93	93	85	80	74	68	62	58	55	55	59	58	54	52	58	65	72	75	75	80	52	93	72.4
Diurnal Maximum	98	98	99	99	99	99	98	98	97	95	93	90	87	85	79	79	73	88	92	94	95	97	97	97			
Diurnal Average	82.0	84.3	85.5	86.5	87.0	85.1	80.2	73.5	66.4	60.3	55.6	52.2	51.3	49.3	46.1	46.8	46.3	47.0	50.9	53.5	60.2	69.0	75.1	78.8			

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 - Peace River Complex (PRC) Station



PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - July 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

Maximum Hourly Value:	0	mb	#N/A	Hours in Service:	744
Maximum Daily Value:	0	mb	#N/A	Hours of Data:	0
Minimum Hourly Value:	0	mb	#N/A	Hours of Missing Data:	744
Minimum Daily Value:	0	mb	#N/A	Hours of Calibration:	0
Monthly Average:	####	mb		Operational Uptime:	0.0

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
Jul 1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Jul 31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
Diurnal Maximum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Diurnal Average	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

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.

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PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - July 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

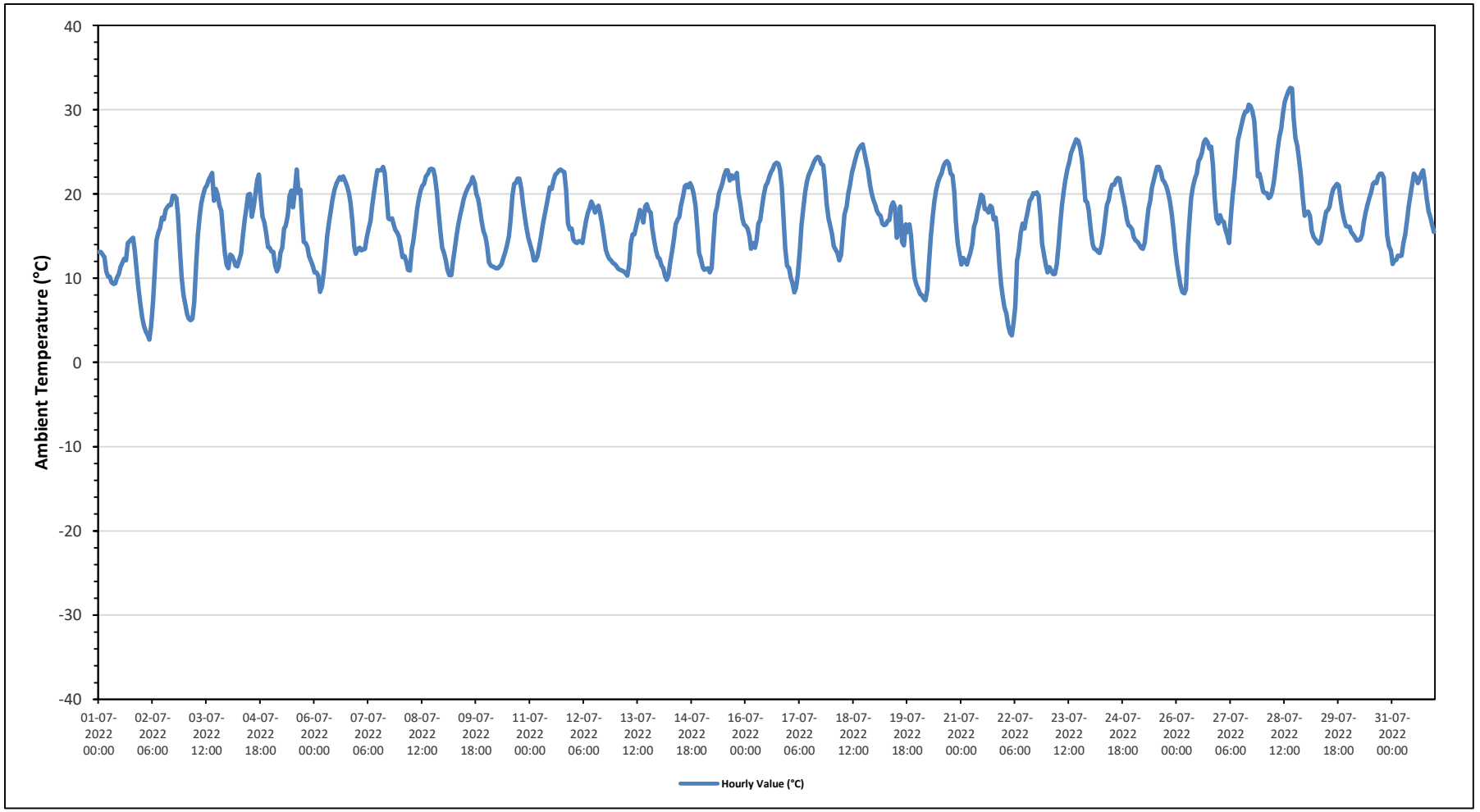
Maximum Hourly Value:	32.6	°C	on July 28 at hour 15	Hours in Service:	744
Maximum Daily Value:	24.9	°C	on July 28	Hours of Data:	744
Minimum Hourly Value:	2.7	°C	on July 2 at hour 4	Hours of Missing Data:	0
Minimum Daily Value:	11.5	°C	on July 1	Hours of Calibration:	0
Monthly Average:	17.0	°C		Operational 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
Jul 1	13.1	13.1	12.8	12.5	10.8	10.2	10.2	9.5	9.3	9.4	10.1	10.5	11.3	11.8	12.3	12.1	14.2	14.4	14.6	14.8	13.1	10.5	8.7	6.9	6.9	14.8	11.5
Jul 2	5.3	4.4	3.7	3.3	**2.7**	4.4	7.2	10.5	14.5	15.4	16	17.2	17	18.1	18.4	18.7	18.7	19.8	19.8	19.5	17.5	13.6	10.1	8	**2.7**	19.8	12.7
Jul 3	6.9	5.7	5.2	5	5.2	7.2	11.5	15.2	17.5	18.9	19.9	20.7	21	21.7	22.1	22.5	19.2	20.6	19.9	18.6	18	15.7	13.1	11.6	5.0	22.5	15.1
Jul 4	11.2	12.8	12.6	12.1	11.5	11.4	12.2	12.9	15	16.9	18.2	19.9	20	17.3	18.4	20	21.7	22.3	19.5	17.3	16.6	15.3	13.7	13.6	11.2	22.3	15.9
Jul 5	13.2	13.1	11.5	10.8	11.4	13	13.6	15.9	16.2	17.4	19.8	20.4	18.4	20.3	22.9	20.1	20.5	16.9	14.3	14.2	13.7	12.6	12	11.4	10.8	22.9	15.6
Jul 6	10.7	10.7	10.3	8.4	9	10.7	12.8	15	16.6	18	19.3	20.5	21.2	21.6	22	21.7	22.1	21.5	20.9	20.1	18.9	16.8	13.8	12.9	8.4	22.1	16.5
Jul 7	13.5	13.6	13.3	13.4	13.5	14.7	15.9	16.8	18.5	20.1	21.6	22.8	22.8	22.8	23.2	22.5	19.9	17.1	17	17.1	16.3	15.7	15.4	14.9	13.3	23.2	17.6
Jul 8	13.8	12.5	12.6	12	11	10.9	13.4	14.4	16.4	18.3	19.4	20.4	21	21.2	22.1	22.4	22.9	23	22.9	22.1	20.4	17.6	15.3	13.6	10.9	23.0	17.5
Jul 9	13	12.1	11	10.4	10.4	12	13.5	15.1	16.3	17.4	18.5	19.4	20.1	20.6	21	21.3	22	21.3	20	19.4	18.1	16.8	15.6	14.9	10.4	22.0	16.7
Jul 10	13.8	11.9	11.5	11.4	11.3	11.2	11.2	11.4	11.7	12.4	13	13.8	15	16.8	19.7	21.2	21.3	21.8	21.8	20.7	18.8	17.2	16	14.8	11.2	21.8	15.4
Jul 11	14	13.1	12.1	12.1	12.6	13.6	14.9	16.3	17.5	18.6	19.8	20.8	20.6	21.6	22.3	22.5	22.8	22.9	22.7	22.6	20.4	16.5	15.8	15.9	12.1	22.9	18.0
Jul 12	14.6	14.3	14.2	14.4	14.4	14.2	15.4	16.7	17.7	18.3	19.1	18.6	17.8	18.3	18.6	17.6	16.4	14.9	13.4	12.8	12.3	12.1	11.8	11.7	11.7	19.1	15.4
Jul 13	11.4	11.1	11	10.9	10.8	10.6	10.3	11.6	14.1	15.2	15.2	16.2	17.1	18.1	17.7	16.6	18.5	18.8	18	17.8	15.9	14.5	13.3	12.5	10.3	18.8	14.5
Jul 14	12.3	11.5	11.2	10.3	9.8	10.4	11.8	13.3	14.8	16.4	16.9	17.3	18.6	19.7	20.9	21.1	20.8	21.3	20.8	20.1	18.5	15.7	13	12.3	9.8	21.3	15.8
Jul 15	11.3	11	11.1	11.2	10.7	11.2	14.6	17.7	18.4	20.1	20.7	21.3	22.2	22.8	22.8	21.6	22.2	21.8	22	22.5	20.1	18.9	17.1	16.4	10.7	22.8	17.9
Jul 16	16.2	15.9	15	13.5	14.2	13.6	14.5	16.5	16.9	18.3	19.8	21	21.3	22	22.6	22.9	23.5	23.7	23.6	22.9	20.9	17	13.6	11.5	11.5	23.7	18.4
Jul 17	11.2	10.1	9.4	8.3	8.8	10.4	13.4	16.3	18.3	20.2	21.5	22.2	22.7	23.3	23.8	24.2	24.4	24.3	23.6	23.4	21.6	18.8	17.1	16.3	8.3	24.4	18.1
Jul 18	15.3	13.8	13.4	13	12.1	12.8	15.2	17.6	18.5	20	21.1	22.5	23.2	24.1	24.9	25.4	25.7	25.9	25	23.9	22.9	21.1	20.1	19.3	12.1	25.9	19.9
Jul 19	18.7	18	17.6	17.4	16.5	16.3	16.4	16.8	16.9	18.5	19	18.4	14.8	15.6	18.5	14.3	13.9	16.4	15.5	16.4	15.1	12.2	10	9.2	9.2	19.0	15.9
Jul 20	8.7	8.1	8	7.6	7.4	8.6	12	15.1	17.4	19.1	20.5	21.4	22	22.5	23.3	23.7	23.9	23.6	22.4	22.2	20.2	16.7	14.1	12.8	7.4	23.9	16.7
Jul 21	11.6	12.4	12	11.6	12.3	13	14	16.1	16.8	18	18.8	19.9	19.7	18.2	18.2	17.8	18.6	18.4	17	17.2	15.5	11.9	9.3	7.9	7.9	19.9	15.3
Jul 22	6.5	5.8	4.4	3.5	3.2	4.6	6.6	12.1	13.1	15.4	16.5	15.9	17	18	19.2	19.5	20.1	20	20.2	19.8	17.3	14.2	12.7	11.5	3.2	20.2	13.2
Jul 23	10.7	11.3	10.9	10.5	10.5	11.6	13.9	16.3	18.7	20.4	21.7	23	23.8	24.8	25.4	26	26.5	26.3	25.5	24.1	22	19.2	19	18	10.5	26.5	19.2
Jul 24	15.6	14	13.5	13.4	13.1	13	13.9	15.3	16.9	18.7	19.3	20.4	21.1	21.1	21.7	21.9	21.8	20.6	19.7	18.4	17	16.3	16.1	15.8	13.0	21.9	17.4
Jul 25	14.9	14.5	14.3	14	13.6	13.5	14.2	16	18.2	19.2	20.7	21.6	22.5	23.2	23.2	22.6	21.7	21.4	20.9	20.3	19.3	17.6	15.6	13.5	13.5	23.2	18.2
Jul 26	11.7	10.3	9.2	8.4	8.2	8.7	13.8	17.1	19.6	20.9	21.9	22.4	23.9	24.3	24.9	26.1	26.5	26.1	25.4	25.6	23.3	19.8	17.1	16.5	8.2	26.5	18.8
Jul 27	17.5	16.8	16.7	15.8	15.1	14.2	17.3	19.9	21.8	24.5	26.4	27.3	28.4	29.2	29.8	29.8	30.6	30.4	29.8	28.7	25.5	22.1	22.4	21.4	14.2	30.6	23.4
Jul 28	20.3	20.1	20.1	19.5	19.7	20.3	21.5	23.3	25.3	26.8	27.8	29.5	30.9	31.6	32.2	**32.6**	32.5	29	26.6	25.7	24	22.1	19.5	17.4	17.4	**32.6**	**24.9**
Jul 29	17.7	17.9	17.4	15.6	14.9	14.6	14.3	14.1	14.4	15.5	16.8	17.9	18.1	18.5	19.8	20.6	20.9	21.2	21	19.5	18	17	16.2	16.1	14.1	21.2	17.4
Jul 30	16.1	15.5	15.2	14.9	14.5	14.5	14.6	15.2	16.6	17.8	18.7	19.5	20.2	21.2	21.4	21.3	22.1	22.4	22.4	21.9	18.6	15.1	13.8	13.3	13.3	22.4	17.8
Jul 31	11.7	12.1	12.2	12.7	12.6	12.7	14.2	15.2	16.9	18.5	19.9	21.3	22.4	22	21.3	21.8	22.4	22.8	21.3	19.4	17.9	17.2	16.4	15.5	11.7	22.8	17.5
Diurnal Maximum	20.3	20.1	20.1	19.5	19.7	20.3	21.5	23.3	25.3	26.8	27.8	29.5	30.9	31.6	32.2	32.6	32.5	30.4	29.8	28.7	25.5	22.1	22.4	21.4			
Diurnal Average	13.0	12.5	12.0	11.5	11.3	11.9	13.5	15.3	16.8	18.2	19.3	20.1	20.5	21.0	21.8	21.7	21.9	21.6	20.9	20.3	18.6	16.4	14.8	13.8			

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 AT - Peace River Complex (PRC) Station



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - July 2022

Summary of Hourly Averages

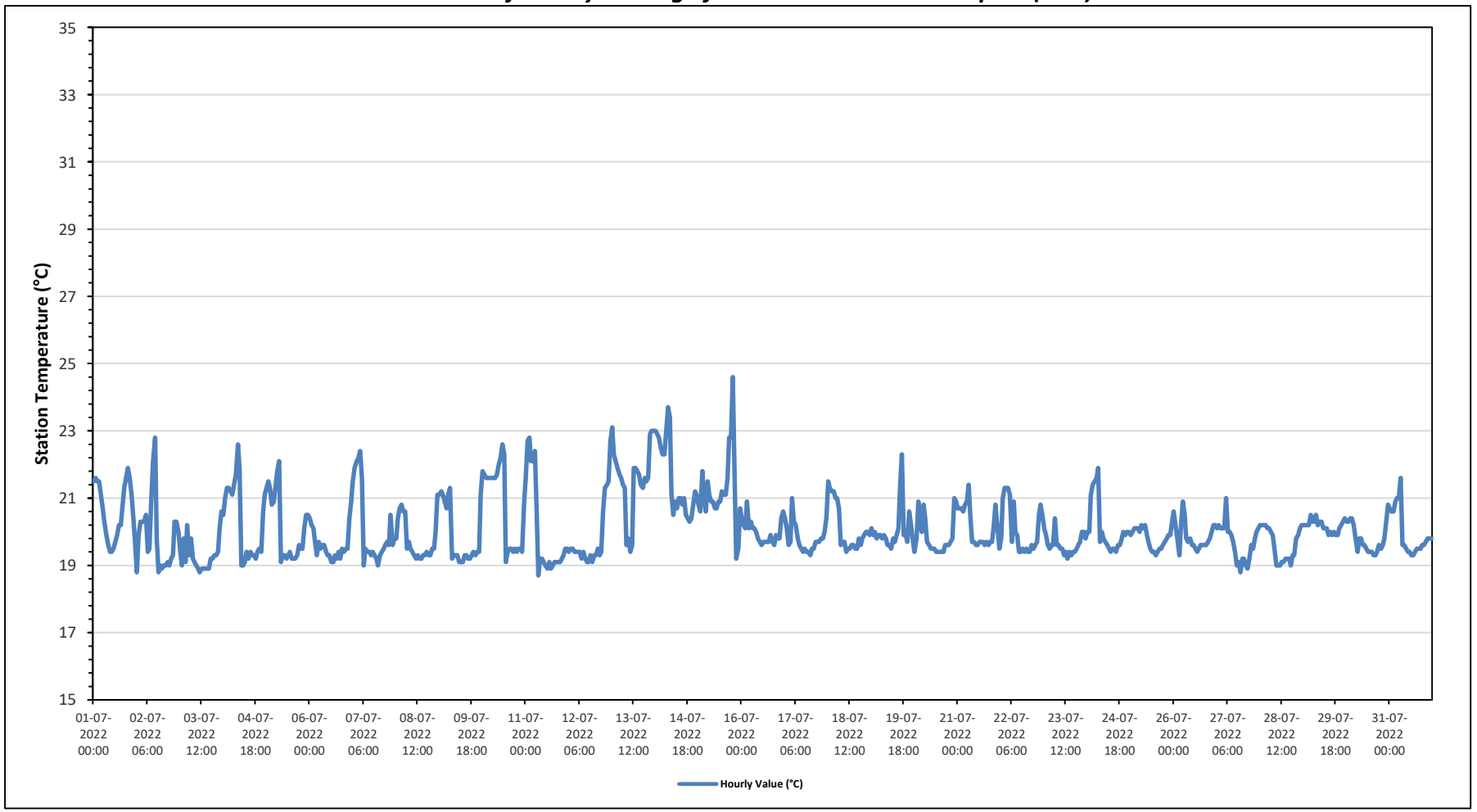
STATION TEMPERATURE (ST) in Degree Celsius

Maximum Hourly Value:	24.6	°C	on July 15 at hour 19	Hours in Service:	744
Maximum Daily Value:	21.6	°C	on July 14	Hours of Data:	744
Minimum Hourly Value:	18.7	°C	on July 11 at hour 7	Hours of Missing Data:	0
Minimum Daily Value:	19.3	°C	on July 3	Hours of Calibration:	0
Monthly Average:	20.1	°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
Jul 1	21.5	21.6	21.5	21.5	21.1	20.7	20.3	19.9	19.6	19.4	19.4	19.5	19.7	19.9	20.2	20.2	20.8	21.3	21.6	21.9	21.6	21.1	20.4	19.6	19.4	21.9	20.6
Jul 2	18.8	19.9	20.3	20.3	20.3	20.5	19.4	19.5	20.9	22.1	22.8	19.8	18.8	19.0	18.9	19.0	19.0	19.1	19.0	19.2	19.3	20.3	20.3	20.0	18.8	22.8	19.9
Jul 3	19.4	19.0	19.8	19.1	20.2	19.3	19.8	19.2	19.1	19.0	18.9	18.8	18.9	18.9	18.9	18.9	18.9	19.2	19.2	19.3	19.3	19.4	20.1	20.6	18.8	20.6	19.3
Jul 4	20.5	21.0	21.3	21.3	21.2	21.1	21.4	21.7	22.6	21.9	19.0	19.0	19.1	19.4	19.2	19.4	19.3	19.3	19.2	19.4	19.5	19.4	20.6	21.1	19.0	22.6	20.3
Jul 5	21.3	21.5	21.3	20.8	20.9	21.4	21.8	22.1	19.1	19.3	19.3	19.2	19.3	19.4	19.2	19.2	19.2	19.3	19.6	19.5	19.5	20.1	20.5	20.5	19.1	22.1	20.1
Jul 6	20.4	20.2	20.1	19.7	19.3	19.7	19.5	19.6	19.6	19.4	19.3	19.3	19.1	19.1	19.3	19.2	19.4	19.2	19.5	19.4	19.5	19.5	20.4	20.9	19.1	20.9	19.6
Jul 7	21.5	21.9	22.1	22.2	22.4	21.6	19.0	19.5	19.4	19.4	19.3	19.4	19.3	19.2	19.0	19.3	19.4	19.5	19.6	19.7	19.6	20.5	19.6	19.8	19.0	22.4	20.1
Jul 8	19.8	20.4	20.7	20.8	20.6	20.6	19.5	19.7	19.5	19.4	19.3	19.2	19.3	19.2	19.2	19.3	19.3	19.4	19.3	19.3	19.5	19.5	20.0	21.1	19.2	21.1	19.7
Jul 9	21.1	21.2	21.1	20.9	20.7	21.1	21.3	19.2	19.3	19.3	19.3	19.1	19.1	19.1	19.3	19.3	19.2	19.2	19.3	19.4	19.3	19.4	19.4	21.1	19.1	21.3	19.9
Jul 10	21.8	21.7	21.6	21.6	21.6	21.6	21.6	21.6	21.7	22.0	22.2	22.6	22.3	19.1	19.4	19.5	19.5	19.4	19.5	19.4	19.5	19.5	19.4	20.9	19.1	22.6	20.8
Jul 11	21.6	22.7	22.8	22.1	22.1	22.4	20.5	**18.7**	19.2	19.2	19.1	19.0	18.9	19.1	18.9	19.0	19.1	19.1	19.1	19.1	19.2	19.3	19.5	19.5	**18.7**	22.8	20.0
Jul 12	19.4	19.5	19.5	19.4	19.4	19.4	19.4	19.2	19.4	19.2	19.1	19.1	19.3	19.1	19.3	19.3	19.5	19.3	19.4	20.6	21.3	21.4	21.5	22.7	19.1	22.7	19.8
Jul 13	23.1	22.3	22.1	21.9	21.7	21.6	21.4	21.3	19.6	19.8	19.4	19.6	21.9	21.9	21.8	21.7	21.4	21.3	21.6	21.5	21.6	22.9	23.0	23.0	19.4	23.1	21.6
Jul 14	23.0	22.9	22.8	22.5	22.3	22.3	23.0	23.7	23.4	21.1	20.5	20.9	20.7	21.0	21.0	20.8	21.0	20.5	20.4	20.3	20.4	20.8	21.2	21.1	20.3	23.7	**21.6**
Jul 15	20.8	20.6	21.8	21.0	20.6	21.5	21.1	20.9	20.9	20.7	20.7	20.9	20.9	21.2	21.1	21.1	21.6	22.8	22.8	**24.6**	22.0	19.2	19.5	20.7	19.2	**24.6**	21.2
Jul 16	20.4	20.2	20.1	20.9	20.1	20.3	20.1	20.1	20.0	19.8	19.7	19.6	19.7	19.7	19.7	19.7	19.9	19.7	19.6	19.9	19.8	19.8	20.4	20.6	19.6	20.9	20.0
Jul 17	20.4	20.1	19.6	19.7	21.0	20.3	20.2	19.8	19.6	19.5	19.4	19.5	19.4	19.4	19.3	19.5	19.5	19.7	19.7	19.7	19.8	19.8	20.0	20.4	19.3	21.0	19.8
Jul 18	21.5	21.3	21.2	21.2	21.0	21.0	20.7	19.6	19.7	19.7	19.4	19.5	19.5	19.6	19.6	19.5	19.5	19.8	19.6	19.8	19.9	20.0	20.0	19.9	19.4	21.5	20.1
Jul 19	20.1	19.9	20.0	19.8	19.9	19.9	19.8	19.9	19.8	19.6	19.6	19.5	19.8	19.7	19.9	20.1	21.3	22.3	19.9	19.9	19.7	20.6	20.2	19.8	19.5	22.3	20.0
Jul 20	19.4	19.8	20.9	20.3	20.0	20.8	20.4	19.7	19.6	19.5	19.5	19.5	19.4	19.4	19.4	19.4	19.4	19.6	19.6	19.6	19.7	19.8	21.0	20.9	19.4	21.0	19.9
Jul 21	20.7	20.7	20.7	20.6	20.8	20.9	21.4	20.5	19.7	19.7	19.6	19.6	19.7	19.7	19.7	19.6	19.7	19.6	19.7	19.7	20.2	20.8	20.2	19.5	19.5	21.4	20.1
Jul 22	19.8	21.0	21.3	21.3	21.3	21.1	19.7	20.9	20.0	19.9	19.4	19.4	19.5	19.4	19.5	19.4	19.4	19.6	19.5	19.6	19.7	20.5	20.8	20.5	19.4	21.3	20.1
Jul 23	20.1	19.9	19.6	19.5	19.6	19.6	20.4	19.6	19.6	19.5	19.5	19.3	19.4	19.2	19.4	19.3	19.4	19.4	19.5	19.6	19.7	20.0	20.0	19.8	19.2	20.4	19.6
Jul 24	20.0	20.0	21.1	21.4	21.5	21.6	21.9	19.7	20.0	19.8	19.7	19.6	19.5	19.4	19.5	19.5	19.4	19.6	19.6	19.8	20.0	19.9	20.0	20.0	19.4	21.9	20.1
Jul 25	19.9	20.0	20.1	20.1	20.1	20.0	20.2	20.1	20.2	19.9	19.7	19.5	19.4	19.4	19.3	19.4	19.5	19.5	19.6	19.7	19.8	19.9	19.9	20.3	19.3	20.3	19.8
Jul 26	20.6	20.2	19.8	19.3	20.2	20.9	20.5	19.8	19.7	19.8	19.6	19.6	19.5	19.4	19.5	19.6	19.6	19.6	19.6	19.7	19.8	20.0	20.2	20.2	19.3	20.9	19.9
Jul 27	20.1	20.2	20.1	20.1	20.1	21.0	20.0	20.0	19.9	19.7	19.4	19.0	19.1	18.8	19.2	19.2	19.0	18.9	19.2	19.6	19.5	19.8	20.0	20.1	18.8	21.0	19.7
Jul 28	20.2	20.2	20.2	20.2	20.1	20.1	20.0	19.9	19.4	19.0	19.0	19.0	19.1	19.1	19.2	19.2	19.2	19.0	19.3	19.3	19.8	19.9	20.1	20.2	19.0	20.2	19.6
Jul 29	20.2	20.2	20.2	20.2	20.5	20.3	20.3	20.5	20.2	20.3	20.3	20.1	20.1	20.1	19.9	20.0	19.9	20.0	19.9	19.9	20.1	20.2	20.3	20.4	19.9	20.5	20.2
Jul 30	20.3	20.3	20.4	20.4	20.2	19.8	19.4	19.8	19.8	19.6	19.6	19.5	19.4	19.4	19.4	19.3	19.3	19.4	19.6	19.5	19.6	19.8	20.3	20.8	19.3	20.8	19.8
Jul 31	20.7	20.6	20.6	20.9	21.0	21.0	21.6	19.6	19.6	19.5	19.4	19.4	19.3	19.3	19.4	19.5	19.5	19.5	19.6	19.6	19.7	19.8	19.8	19.8	19.3	21.6	19.9
Diurnal Maximum	23.1	22.9	22.8	22.5	22.4	22.4	23.0	23.7	23.4	22.1	22.8	22.6	22.3	21.9	21.8	21.7	21.6	22.8	22.8	24.6	22.0	22.9	23.0	23.0			
Diurnal Average	20.6	20.7	20.8	20.7	20.7	20.8	20.5	20.2	20.0	19.9	19.7	19.6	19.6	19.5	19.6	19.6	19.7	19.8	19.8	19.9	19.9	20.1	20.3	20.5			

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
Station Temperature (°C)
35
33
31
29
27
25
23
21
19
17
15
01-07-2022 00:00
02-07-2022 06:00
03-07-2022 12:00
04-07-2022 18:00
06-07-2022 00:00
07-07-2022 06:00
08-07-2022 12:00
09-07-2022 18:00
11-07-2022 00:00
12-07-2022 06:00
13-07-2022 12:00
14-07-2022 18:00
16-07-2022 00:00
17-07-2022 06:00
18-07-2022 12:00
19-07-2022 18:00
21-07-2022 00:00
22-07-2022 06:00
23-07-2022 12:00
24-07-2022 18:00
26-07-2022 00:00
27-07-2022 06:00
28-07-2022 12:00
29-07-2022 18:00
31-07-2022 00:00
Hourly Value (°C)

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PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - July 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

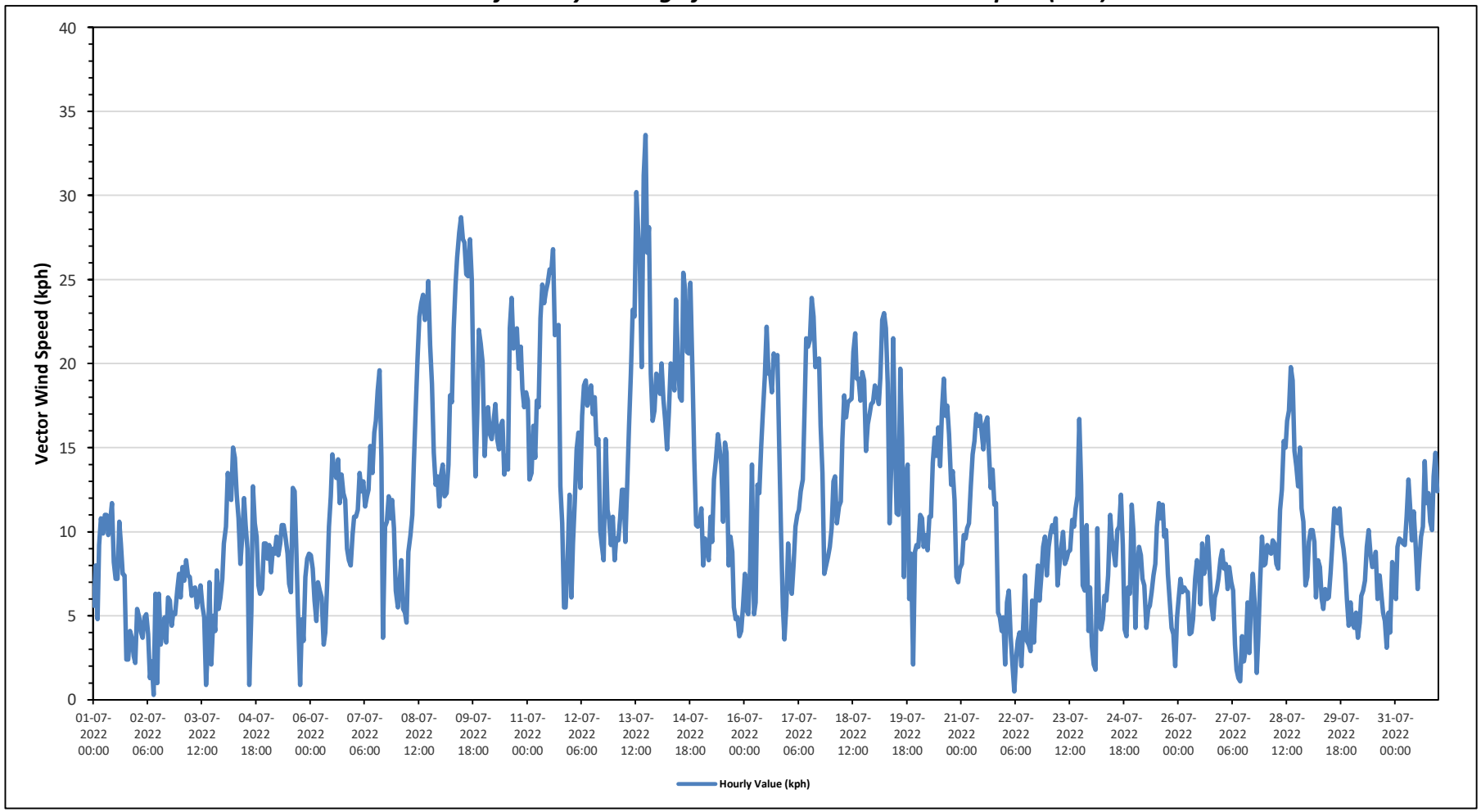
Maximum Hourly Value:	33.6	kph	on July 13 at hour 17	Hours in Service:	744
Maximum Daily Value:	20.2	kph	on July 9	Hours of Data:	744
Minimum Hourly Value:	0.3	kph	on July 2 at hour 9	Hours of Missing Data:	0
Minimum Daily Value:	1.1	kph	on July 2	Hours of Calibration:	0
Monthly Average:	5.8	kph		Operational 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
Jul 1	5.6	8.0	4.8	9.2	10.8	9.9	11.0	11.0	9.8	10.6	11.7	8.2	7.2	7.2	10.6	9.3	7.5	7.4	2.4	2.4	4.1	3.7	2.6	2.2	2.2	11.7	4.8
Jul 2	5.4	4.9	4.0	3.7	4.9	5.1	3.9	1.3	2.3	**0.3**	6.3	1.0	6.3	3.3	4.1	4.9	3.4	6.1	5.9	4.4	5.2	5.1	6.5	7.5	**0.3**	7.5	**1.1**
Jul 3	6.1	7.9	7.1	8.3	7.4	7.3	6.2	6.6	6.7	5.5	6.2	6.8	5.6	4.9	0.9	3.1	7.0	2.1	5.0	4.1	7.7	5.4	6.1	7.2	0.9	8.3	1.7
Jul 4	9.3	10.3	13.5	12.1	11.9	15.0	14.4	12.2	10.8	8.1	9.7	12.0	10.4	9.0	0.9	5.3	12.7	10.5	9.7	6.8	6.3	6.6	9.3	9.3	0.9	15.0	9.0
Jul 5	8.4	9.2	7.6	9.0	8.7	9.7	8.6	9.3	10.4	10.4	9.7	8.7	6.9	6.4	12.6	12.4	9.2	4.6	0.9	4.8	3.5	7.3	8.4	8.7	0.9	12.6	5.0
Jul 6	8.6	7.8	5.9	4.7	7.0	6.5	6.1	3.3	4.0	6.9	10.3	12.1	14.6	13.7	13.2	14.3	11.7	13.4	12.3	11.9	9.0	8.3	8.0	9.8	3.3	14.6	8.9
Jul 7	10.9	10.9	11.3	13.5	12.4	13.0	11.5	12.1	12.5	15.1	13.5	15.9	16.6	18.4	19.6	14.4	3.7	10.3	10.6	12.1	10.8	11.9	10.2	6.5	3.7	19.6	12.1
Jul 8	5.5	6.9	8.3	5.4	5.2	4.6	8.8	9.8	11.0	14.1	17.3	20.3	22.8	23.6	24.1	22.6	23.0	24.9	21.1	18.8	14.7	12.8	13.3	11.5	4.6	24.9	12.9
Jul 9	13.4	14.0	12.1	12.3	14.0	18.1	17.7	22.1	24.7	26.3	27.8	28.7	27.4	27.2	25.3	25.2	27.4	25.0	18.0	13.3	17.1	22.0	21.2	20.1	12.1	28.7	**20.2**
Jul 10	14.5	16.4	17.4	15.8	15.5	16.4	17.6	15.5	14.9	16.3	16.6	13.4	14.5	13.7	22.1	23.9	20.9	21.4	22.1	19.7	21.0	18.5	17.4	18.3	13.4	23.9	17.3
Jul 11	17.8	13.1	13.5	16.3	14.4	17.8	17.4	22.7	24.7	23.6	24.3	24.8	25.6	25.4	26.8	21.7	22.0	22.3	12.7	10.5	5.5	5.5	8.1	12.2	5.5	26.8	17.3
Jul 12	6.1	9.3	11.8	14.9	15.9	12.6	16.9	18.7	19.0	17.5	18.0	18.7	17.0	18.0	15.2	15.5	10.1	9.2	8.3	15.5	11.3	10.7	9.2	10.9	6.1	19.0	13.0
Jul 13	8.3	9.6	9.5	10.8	12.5	12.5	9.4	12.8	16.3	19.4	23.2	22.8	30.2	27.8	26.1	19.8	31.2	**33.6**	26.6	28.1	19.4	16.6	17.2	19.4	8.3	**33.6**	18.7
Jul 14	19.0	18.2	20.0	17.9	16.6	14.9	17.1	20.0	19.6	18.4	23.8	20.5	18.0	17.8	25.4	24.4	20.7	20.6	24.8	19.5	14.3	10.4	10.3	10.5	10.3	25.4	18.0
Jul 15	11.4	8.0	9.6	9.1	8.3	10.9	9.4	13.1	14.2	15.8	15.0	14.0	10.6	15.3	14.7	8.0	9.7	8.8	5.5	4.8	4.9	3.8	4.1	5.6	3.8	15.8	8.4
Jul 16	7.5	5.3	5.1	7.9	14.0	5.1	5.8	12.8	12.3	15.0	16.9	19.2	22.2	19.4	19.5	18.3	20.6	20.0	20.5	15.1	9.9	5.5	3.6	5.6	3.6	22.2	11.1
Jul 17	9.3	6.9	6.3	8.1	10.3	11.0	11.3	12.4	13.1	17.4	21.5	21.0	21.4	23.9	22.8	19.8	20.2	20.3	16.3	13.5	7.5	8.0	8.5	9.1	6.3	23.9	13.4
Jul 18	10.2	13.0	13.3	10.5	11.5	11.8	15.5	18.1	16.8	17.7	17.8	17.9	20.7	21.8	19.1	19.1	17.8	19.5	19.0	14.8	16.4	17.0	17.6	17.7	10.2	21.8	15.6
Jul 19	18.7	18.2	17.6	19.2	22.6	23.0	22.1	18.8	10.5	14.3	21.5	15.8	11.1	11.0	19.7	15.5	7.3	13.4	14.0	6.0	8.7	2.1	8.8	9.2	2.1	23.0	13.4
Jul 20	9.1	11.0	10.8	9.1	9.8	8.9	10.9	10.9	14.1	15.6	14.5	16.2	13.9	17.2	19.1	16.9	17.5	15.8	12.8	13.6	11.9	7.3	7.0	7.8	7.0	19.1	11.7
Jul 21	8.1	9.8	9.6	10.2	10.5	12.7	14.6	15.4	17.0	16.3	16.9	16.0	14.9	16.4	16.8	14.8	12.6	13.7	11.6	11.7	5.2	4.9	4.1	4.9	4.1	17.0	7.5
Jul 22	2.1	5.8	6.5	3.8	2.1	0.5	2.5	3.5	4.0	2.0	4.8	7.4	3.5	3.3	2.9	5.9	3.4	6.3	8.0	5.9	7.3	9.1	9.7	7.4	0.5	9.7	**1.1**
Jul 23	9.1	9.9	10.4	10.0	10.8	6.8	8.0	9.1	10.0	8.1	8.4	8.8	8.9	10.7	10.3	11.4	12.1	16.7	12.8	6.8	6.5	10.4	4.1	6.7	4.1	16.7	6.7
Jul 24	3.2	2.1	1.8	10.2	4.5	4.2	4.8	6.2	5.9	7.4	11.0	9.6	8.8	8.0	10.1	10.3	12.2	9.2	4.2	3.8	6.7	6.3	11.6	9.9	1.8	12.2	4.2
Jul 25	4.3	7.9	9.1	8.6	7.2	6.8	4.3	5.4	5.6	6.4	7.4	8.1	10.3	11.7	10.8	11.6	9.7	10.1	7.5	5.9	4.3	3.9	2.0	4.9	2.0	11.7	4.8
Jul 26	6.0	7.2	6.4	6.7	6.5	6.4	3.9	4.0	4.8	7.2	8.3	7.9	5.7	9.3	7.5	8.1	9.7	7.7	5.7	4.8	6.1	6.5	7.2	8.4	3.9	9.7	5.8
Jul 27	8.9	7.8	8.1	6.6	7.9	7.0	6.5	3.3	1.8	1.3	1.1	3.8	2.3	3.0	5.8	2.8	5.8	7.5	5.8	1.6	3.8	7.0	9.7	8.0	1.1	9.7	3.7
Jul 28	8.1	9.2	8.8	8.7	9.5	9.3	8.1	7.8	11.3	12.5	15.4	15.0	16.6	17.2	19.8	19.0	14.8	13.9	12.7	15.0	11.4	10.6	6.8	7.3	6.8	19.8	4.4
Jul 29	9.4	10.1	10.1	9.4	6.1	8.3	7.9	6.0	5.4	6.6	6.0	6.1	7.6	9.4	11.4	10.6	10.5	11.4	9.8	9.0	8.1	6.0	4.4	5.8	4.4	11.4	6.7
Jul 30	4.6	4.3	5.2	3.7	4.6	6.2	6.5	7.1	9.1	10.1	8.7	7.9	8.0	8.8	6.0	7.4	6.2	5.2	4.7	3.1	5.2	4.0	8.2	6.6	3.1	10.1	4.5
Jul 31	6.0	9.1	9.6	9.5	9.3	9.2	10.9	13.1	11.3	9.5	11.2	9.3	6.6	8.2	9.7	10.3	14.2	11.7	12.3	10.6	10.1	13.3	14.7	12.4	6.0	14.7	10.3
Diurnal Maximum	19	18	20	19	23	23	22	23	25	26	28	29	30	28	27	25	31	34	27	28	21	22	21	20			
Diurnal Average	8.9	9.4	9.5	9.8	10.1	10.0	10.3	11.1	11.4	12.1	13.7	13.5	13.4	13.9	14.6	13.8	13.4	13.6	11.7	10.3	9.2	8.7	9.0	9.4			

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

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

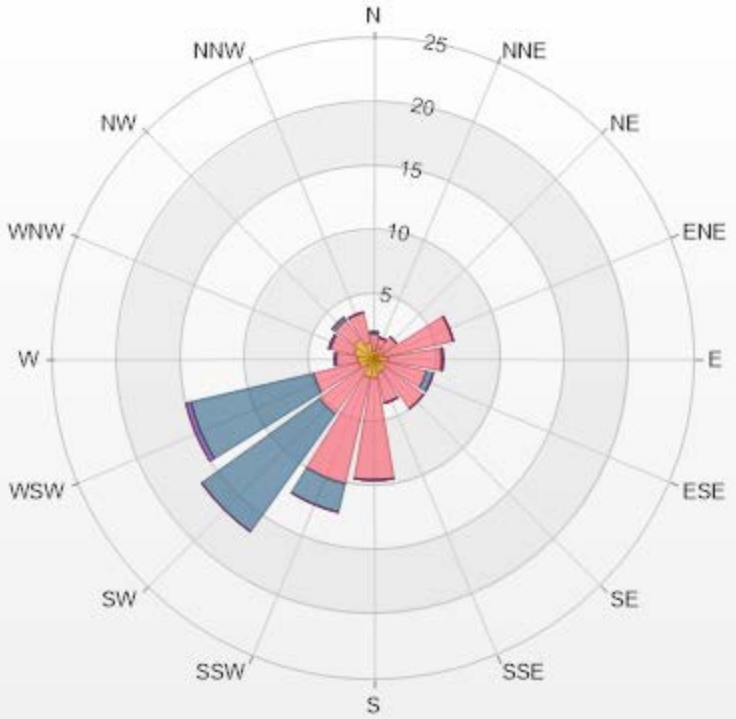
Timeseries Chart of Hourly Average for VWS - Peace River Complex (PRC) Station



Wind: Peace River Complex [PRC] Monitor: WDS [KPH] Monthly: 07-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 1.61% Valid Data: 100.00%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	0.67	1.34	0.13	0	0	2.14
NNE	0.94	0.81	0	0	0	1.75
NE	0.27	1.88	0	0	0	2.15
ENE	0.81	5.51	0	0	0	6.32
E	1.08	4.17	0.13	0	0	5.38
ESE	0.4	3.76	0.54	0	0	4.7
SE	1.08	3.63	0	0	0	4.71
SSE	1.08	2.42	0	0	0	3.5
S	1.48	7.93	0	0	0	9.41
SSW	1.48	8.47	2.28	0	0	12.23
SW	0.67	4.57	11.29	0	0	16.53
WSW	1.21	3.63	9.81	0.4	0	15.05
W	1.34	1.61	0.13	0	0	3.08
WNW	1.61	1.88	0.13	0	0	3.62
NW	1.88	1.88	0.27	0	0	4.03
NNW	1.34	2.42	0	0	0	3.76
Summary	17.34	55.91	24.71	0.4	0	98.36

Peace River Complex [PRC] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 1.61% Calm Wind Avg Speed: 1.11(KPH)



% Icon Classes (KPH)	17 1.8-6.0	56 6.0-15.0	25 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 - July 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

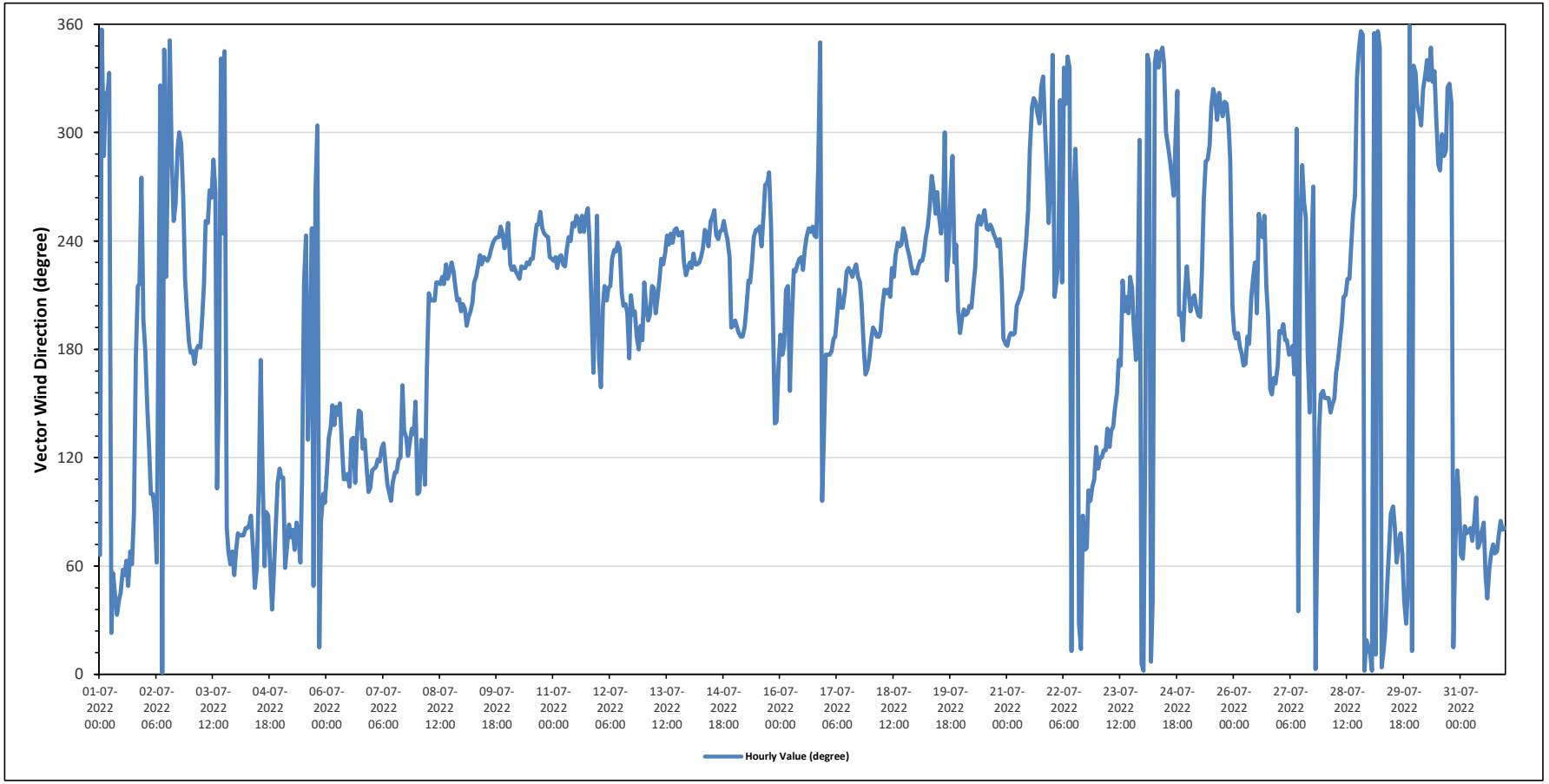
Monthly Average:	219 (SW)	degree	
Hours in Service:	744		
Hours of Data:	744		
Hours of Missing Data:	0		
Hours of Calibration:	0		
Operational Uptime:	100.0		

Day	Hourly Period Starting at (MST)																						Daily Average	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Degree	Quadrant
Jul 1	ENE	N	WNW	NW	NW	NNW	NNE	NE	NE	NNE	NE	NE	ENE	NE	ENE	NE	ENE	ENE	E	S	SSW	SW	W	SSW	31	NNE
Jul 2	S	SSE	ESE	E	E	E	ENE	S	NW	N	NNW	SW	WNW	N	WNW	WSW	W	WNW	WNW	WNW	W	SW	SSW	S	246	WSW
Jul 3	S	S	S	S	S	S	SSW	SW	WSW	WSW	W	W	WNW	W	ESE	SSE	NNW	WSW	NNW	E	ENE	ENE	ENE	NE	201	SSW
Jul 4	ENE	ENE	ENE	ENE	ENE	E	E	E	E	ENE	NE	ENE	E	S	ESE	ENE	E	E	ENE	NE	NE	E	ESE	ESE	80	E
Jul 5	ESE	ESE	ENE	ENE	E	ENE	E	ENE	E	ENE	ENE	ESE	SW	WSW	SE	S	WSW	NE	W	WNW	NNE	E	E	E	95	E
Jul 6	ESE	SE	SE	SSE	SE	SE	SE	SSE	SE	ESE	ESE	ESE	ESE	SE	SE	ESE	SE	SE	SE	SE	SE	ESE	E	ESE	124	ESE
Jul 7	ESE	ESE	ESE	ESE	ESE	SE	SE	ESE	ESE	E	E	ESE	ESE	ESE	ESE	ESE	SSE	SE	SE	ESE	SE	SE	SE	SSE	119	ESE
Jul 8	E	E	SE	SE	ESE	SSE	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	211	SSW
Jul 9	SSW	SSW	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	228	SW
Jul 10	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	235	SW
Jul 11	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	SSE	SSW	WSW	241	WSW
Jul 12	S	SSE	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	SW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	S	S	S	S	210	SSW
Jul 13	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	232	SW
Jul 14	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	S	S	238	SW
Jul 15	SSW	S	S	S	S	S	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	SW	WSW	W	W	W	WSW	SSW	SE	SE	S	223	SW
Jul 16	S	S	S	SSW	SSW	SSE	S	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	N	E	SE	230	SW
Jul 17	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	S	SSE	SSE	S	207	SSW
Jul 18	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	SW	SW	WSW	WSW	SW	SW	SW	SW	SW	220	SW
Jul 19	SW	SW	SW	SW	SW	WSW	WSW	WSW	W	W	WSW	W	WSW	WSW	WSW	WNW	SW	SW	W	WNW	SW	SW	SSW	S	245	WSW
Jul 20	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	S	S	233	SW
Jul 21	S	S	S	S	S	SSW	SSW	SSW	SSW	SW	WSW	WSW	WNW	NW	NW	NW	NW	WNW	NW	NNW	WNW	W	WSW	W	256	WSW
Jul 22	NNW	SSW	SW	SW	NW	SW	NNW	NW	NNW	NNW	NNE	W	WNW	WSW	NNE	NNE	E	ENE	ENE	E	E	ESE	ESE	SE	76	ENE
Jul 23	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSE	S	S	SW	SSW	SSW	SSW	SW	SSW	S	S	SSW	WNW	N	168	SSE
Jul 24	N	ESE	NNW	NNW	N	NE	NNW	NNW	NNW	NNW	NNW	NNW	WNW	WNW	WNW	W	W	WNW	NW	SSW	SSW	S	SSW	SW	299	WNW
Jul 25	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	SSW	277	W
Jul 26	S	S	S	S	S	S	S	S	S	SSW	SW	SW	SSW	WSW	WSW	WSW	WSW	SSW	SSW	SSE	SSE	SSE	SSE	S	200	SSW
Jul 27	S	S	SSW	S	S	S	S	S	SSE	WNW	NE	WSW	W	W	WSW	S	SE	WSW	W	N	ENE	SE	SSE	SSE	188	S
Jul 28	SSE	SSE	SSE	SE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	SW	SW	WSW	WSW	W	NNW	NNW	N	N	N	NNE	NNE	221	SW
Jul 29	NNE	N	N	NNE	N	NNW	N	NNE	NNE	NE	ENE	E	E	E	ENE	ENE	ENE	ENE	NE	NNE	NE	N	NNE	NNW	36	NE
Jul 30	NNW	NW	NW	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	W	W	WNW	WNW	WNW	NW	NW	NW	NNE	ENE	ESE	E	324	NW
Jul 31	ENE	ENE	E	ENE	ENE	E	ENE	E	E	ENE	ENE	ENE	E	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	74	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



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - July 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	33.6	kph	on July 13 at hour 17	Hours in Service:	744
Maximum Daily Value:	20.2	kph	on July 9	Hours of Data:	744
Minimum Hourly Value:	0.3	kph	on July 2 at hour 9	Hours of Missing Data:	0
Minimum Daily Value:	1.1	kph	on July 2	Hours of Calibration:	0
Monthly Average:	5.8	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 219 (SW) degree

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	5.6	8.0	4.8	9.2	10.8	9.9	11.0	11.0	9.8	10.6	11.7	8.2	7.2	7.2	10.6	9.3	7.5	7.4	2.4	2.4	4.1	3.7	2.6	2.2	2.2	11.7	4.8
	ENE	N	WNW	NW	NW	NNW	NNE	NE	NE	NNE	NE	NE	ENE	NE	ENE	NE	ENE	ENE	E	S	SSW	SW	W	SSW			
Jul 2	5.4	4.9	4.0	3.7	4.9	5.1	3.9	1.3	2.3	**0.3**	6.3	1.0	6.3	3.3	4.1	4.9	3.4	6.1	5.9	4.4	5.2	5.1	6.5	7.5	**0.3**	7.5	**1.1**
	S	SSE	ESE	E	E	E	ENE	S	NW	N	NNW	SW	WNW	N	WNW	WSW	W	WNW	WNW	WNW	W	SW	SSW	S			
Jul 3	6.1	7.9	7.1	8.3	7.4	7.3	6.2	6.6	6.7	5.5	6.2	6.8	5.6	4.9	0.9	3.1	7.0	2.1	5.0	4.1	7.7	5.4	6.1	7.2	0.9	8.3	1.7
	S	S	S	S	S	S	SSW	SW	WSW	WSW	W	W	WNW	W	ESE	SSE	NNW	WSW	NNW	E	ENE	ENE	ENE	NE			
Jul 4	9.3	10.3	13.5	12.1	11.9	15.0	14.4	12.2	10.8	8.1	9.7	12.0	10.4	9.0	0.9	5.3	12.7	10.5	9.7	6.8	6.3	6.6	9.3	9.3	0.9	15.0	9.0
	ENE	ENE	ENE	ENE	ENE	E	E	E	E	ENE	NE	ENE	E	S	ESE	ENE	E	E	ENE	NE	NE	E	ESE	ESE			
Jul 5	8.4	9.2	7.6	9.0	8.7	9.7	8.6	9.3	10.4	10.4	9.7	8.7	6.9	6.4	12.6	12.4	9.2	4.6	0.9	4.8	3.5	7.3	8.4	8.7	0.9	12.6	5.0
	ESE	ESE	ENE	ENE	E	ENE	E	ENE	E	ENE	ENE	ESE	SW	WSW	SE	S	WSW	NE	W	WNW	NNE	E	E	E			
Jul 6	8.6	7.8	5.9	4.7	7.0	6.5	6.1	3.3	4.0	6.9	10.3	12.1	14.6	13.7	13.2	14.3	11.7	13.4	12.3	11.9	9.0	8.3	8.0	9.8	3.3	14.6	8.9
	ESE	SE	SE	SSE	SE	SE	SE	SSE	SE	ESE	ESE	ESE	ESE	SE	SE	ESE	SE	SE	SE	SE	SE	ESE	E	ESE			
Jul 7	10.9	10.9	11.3	13.5	12.4	13.0	11.5	12.1	12.5	15.1	13.5	15.9	16.6	18.4	19.6	14.4	3.7	10.3	10.6	12.1	10.8	11.9	10.2	6.5	3.7	19.6	12.1
	ESE	ESE	ESE	ESE	ESE	SE	SE	ESE	ESE	E	E	ESE	ESE	ESE	ESE	ESE	SSE	SE	SE	ESE	SE	SE	SE	SSE			
Jul 8	5.5	6.9	8.3	5.4	5.2	4.6	8.8	9.8	11.0	14.1	17.3	20.3	22.8	23.6	24.1	22.6	23.0	24.9	21.1	18.8	14.7	12.8	13.3	11.5	4.6	24.9	12.9
	E	E	SE	SE	ESE	SSE	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW			
Jul 9	13.4	14.0	12.1	12.3	14.0	18.1	17.7	22.1	24.7	26.3	27.8	28.7	27.4	27.2	25.3	25.2	27.4	25.0	18.0	13.3	17.1	22.0	21.2	20.1	12.1	28.7	**20.2**
	SSW	SSW	S	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW			
Jul 10	14.5	16.4	17.4	15.8	15.5	16.4	17.6	15.5	14.9	16.3	16.6	13.4	14.5	13.7	22.1	23.9	20.9	21.4	22.1	19.7	21.0	18.5	17.4	18.3	13.4	23.9	17.3
	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW			
Jul 11	17.8	13.1	13.5	16.3	14.4	17.8	17.4	22.7	24.7	23.6	24.3	24.8	25.6	25.4	26.8	21.7	22.0	22.3	12.7	10.5	5.5	5.5	8.1	12.2	5.5	26.8	17.3
	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	SSE	SSW	WSW			
Jul 12	6.1	9.3	11.8	14.9	15.9	12.6	16.9	18.7	19.0	17.5	18.0	18.7	17.0	18.0	15.2	15.5	10.1	9.2	8.3	15.5	11.3	10.7	9.2	10.9	6.1	19.0	13.0
	S	SSE	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	SW	SSW	SSW	SSW	SSW	S	SSW	SSW	SSW	S	S	S	S			
Jul 13	8.3	9.6	9.5	10.8	12.5	12.5	9.4	12.8	16.3	19.4	23.2	22.8	30.2	27.8	26.1	19.8	31.2	**33.6**	26.6	28.1	19.4	16.6	17.2	19.4	8.3	**33.6**	18.7
	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW			
Jul 14	19.0	18.2	20.0	17.9	16.6	14.9	17.1	20.0	19.6	18.4	23.8	20.5	18.0	17.8	25.4	24.4	20.7	20.6	24.8	19.5	14.3	10.4	10.3	10.5	10.3	25.4	18.0
	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	S	S			
Jul 15	11.4	8.0	9.6	9.1	8.3	10.9	9.4	13.1	14.2	15.8	15.0	14.0	10.6	15.3	14.7	8.0	9.7	8.8	5.5	4.8	4.9	3.8	4.1	5.6	3.8	15.8	8.4
	SSW	S	S	S	S	S	SSW	SW	SW	SW	WSW	WSW	WSW	WSW	SW	WSW	W	W	W	WSW	SSW	SE	SE	S			
Jul 16	7.5	5.3	5.1	7.9	14.0	5.1	5.8	12.8	12.3	15.0	16.9	19.2	22.2	19.4	19.5	18.3	20.6	20.0	20.5	15.1	9.9	5.5	3.6	5.6	3.6	22.2	11.1
	S	S	S	SSW	SSW	SSE	S	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	W	N	E	SE			
Jul 17	9.3	6.9	6.3	8.1	10.3	11.0	11.3	12.4	13.1	17.4	21.5	21.0	21.4	23.9	22.8	19.8	20.2	20.3	16.3	13.5	7.5	8.0	8.5	9.1	6.3	23.9	13.4
	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	S	SSE	SSE	S			
Jul 18	10.2	13.0	13.3	10.5	11.5	11.8	15.5	18.1	16.8	17.7	17.8	17.9	20.7	21.8	19.1	19.1	17.8	19.5	19.0	14.8	16.4	17.0	17.6	17.7	10.2	21.8	15.6
	S	S	S	S	S	S	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	WSW	SW	SW	WSW	WSW	SW	SW	SW	SW	SW			
Jul 19	18.7	18.2	17.6	19.2	22.6	23.0	22.1	18.8	10.5	14.3	21.5	15.8	11.1	11.0	19.7	15.5	7.3	13.4	14.0	6.0	8.7	2.1	8.8	9.2	2.1	23.0	13.4
	SW	SW	SW	SW	SW	WSW	WSW	WSW	W	W	WSW	W	WSW	WSW	WSW	WNW	SW	SW	W	WNW	SW	SW	SSW	S			
Jul 20	9.1	11.0	10.8	9.1	9.8	8.9	10.9	10.9	14.1	15.6	14.5	16.2	13.9	17.2	19.1	16.9	17.5	15.8	12.8	13.6	11.9	7.3	7.0	7.8	7.0	19.1	11.7
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	S	S			

PEACE RIVER AREA MONITORING PROGRAM

Peace River Complex (PRC) Station - July 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	33.6	kph	on July 13 at hour 17	Hours in Service:	744
Maximum Daily Value:	20.2	kph	on July 9	Hours of Data:	744
Minimum Hourly Value:	0.3	kph	on July 2 at hour 9	Hours of Missing Data:	0
Minimum Daily Value:	1.1	kph	on July 2	Hours of Calibration:	0
Monthly Average:	5.8	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 219 (SW) degree

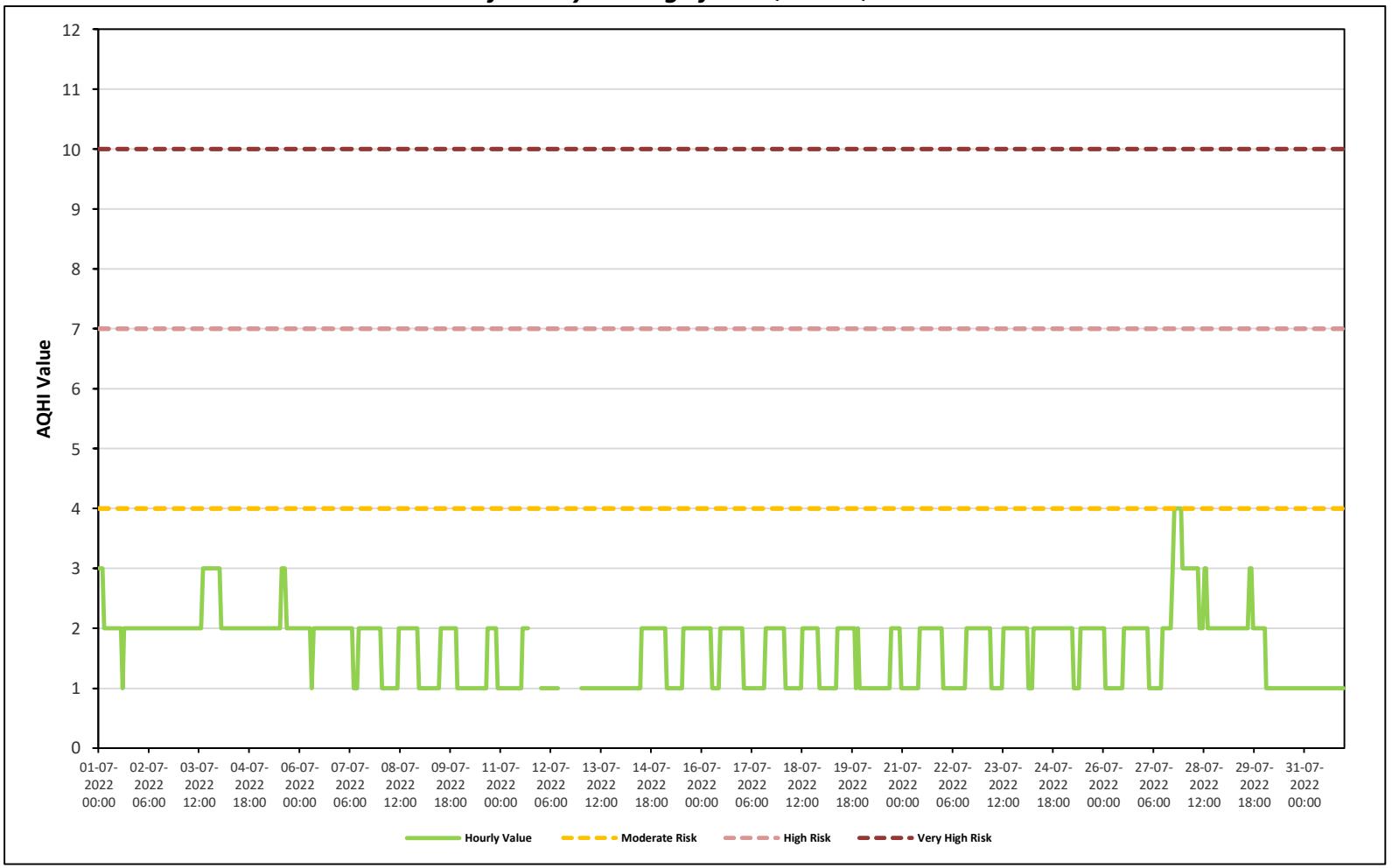
Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 21	8.1	9.8	9.6	10.2	10.5	12.7	14.6	15.4	17.0	16.3	16.9	16.0	14.9	16.4	16.8	14.8	12.6	13.7	11.6	11.7	5.2	4.9	4.1	4.9	4.1	17.0	7.5
	S	S	S	S	S	SSW	SSW	SSW	SSW	SW	WSW	WSW	WNW	NW	NW	NW	NW	WNW	NW	NNW	WNW	W	WSW	W			
Jul 22	2.1	5.8	6.5	3.8	2.1	0.5	2.5	3.5	4.0	2.0	4.8	7.4	3.5	3.3	2.9	5.9	3.4	6.3	8.0	5.9	7.3	9.1	9.7	7.4	0.5	9.7	**1.1**
	NNW	SSW	SW	SW	NW	SW	NNW	NW	NNW	NNW	NNE	W	WNW	WSW	NNE	NNE	E	ENE	ENE	E	E	ESE	ESE	SE			
Jul 23	9.1	9.9	10.4	10.0	10.8	6.8	8.0	9.1	10.0	8.1	8.4	8.8	8.9	10.7	10.3	11.4	12.1	16.7	12.8	6.8	6.5	10.4	4.1	6.7	4.1	16.7	6.7
	ESE	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE	SSE	S	S	SW	SSW	SSW	SSW	SW	SSW	S	S	SSW	WNW	N			
Jul 24	3.2	2.1	1.8	10.2	4.5	4.2	4.8	6.2	5.9	7.4	11.0	9.6	8.8	8.0	10.1	10.3	12.2	9.2	4.2	3.8	6.7	6.3	11.6	9.9	1.8	12.2	4.2
	N	ESE	NNW	NNW	N	NE	NNW	NNW	NNW	NNW	NNW	NNW	WNW	WNW	WNW	W	W	WNW	NW	SSW	SSW	S	SSW	SW			
Jul 25	4.3	7.9	9.1	8.6	7.2	6.8	4.3	5.4	5.6	6.4	7.4	8.1	10.3	11.7	10.8	11.6	9.7	10.1	7.5	5.9	4.3	3.9	2.0	4.9	2.0	11.7	4.8
	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	SSW			
Jul 26	6.0	7.2	6.4	6.7	6.5	6.4	3.9	4.0	4.8	7.2	8.3	7.9	5.7	9.3	7.5	8.1	9.7	7.7	5.7	4.8	6.1	6.5	7.2	8.4	3.9	9.7	5.8
	S	S	S	S	S	S	S	S	S	SSW	SW	SW	SSW	WSW	WSW	WSW	WSW	SSW	SSW	SSE	SSE	SSE	SSE	SSE	S			
Jul 27	8.9	7.8	8.1	6.6	7.9	7.0	6.5	3.3	1.8	1.3	1.1	3.8	2.3	3.0	5.8	2.8	5.8	7.5	5.8	1.6	3.8	7.0	9.7	8.0	1.1	9.7	3.7
	S	S	SSW	S	S	S	S	S	SSE	WNW	NE	WSW	W	W	WSW	S	SE	WSW	W	N	ENE	SE	SSE	SSE			
Jul 28	8.1	9.2	8.8	8.7	9.5	9.3	8.1	7.8	11.3	12.5	15.4	15.0	16.6	17.2	19.8	19.0	14.8	13.9	12.7	15.0	11.4	10.6	6.8	7.3	6.8	19.8	4.4
	SSE	SSE	SSE	SE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	SW	SW	WSW	WSW	W	NNW	NNW	N	N	N	NNE	NNE			
Jul 29	9.4	10.1	10.1	9.4	6.1	8.3	7.9	6.0	5.4	6.6	6.0	6.1	7.6	9.4	11.4	10.6	10.5	11.4	9.8	9.0	8.1	6.0	4.4	5.8	4.4	11.4	6.7
	NNE	N	N	NNE	N	NNW	N	NNE	NNE	NE	ENE	E	E	E	ENE	ENE	ENE	ENE	NE	NNE	NE	N	NNE	NNW			
Jul 30	4.6	4.3	5.2	3.7	4.6	6.2	6.5	7.1	9.1	10.1	8.7	7.9	8.0	8.8	6.0	7.4	6.2	5.2	4.7	3.1	5.2	4.0	8.2	6.6	3.1	10.1	4.5
	NNW	NW	NW	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	W	W	WNW	WNW	WNW	NW	NW	NW	NNE	ENE	ESE	E			
Jul 31	6.0	9.1	9.6	9.5	9.3	9.2	10.9	13.1	11.3	9.5	11.2	9.3	6.6	8.2	9.7	10.3	14.2	11.7	12.3	10.6	10.1	13.3	14.7	12.4	6.0	14.7	10.3
	ENE	ENE	E	ENE	ENE	E	ENE	E	E	ENE	ENE	ENE	E	NE	NE	ENE	ENE	ENE	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 - July 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

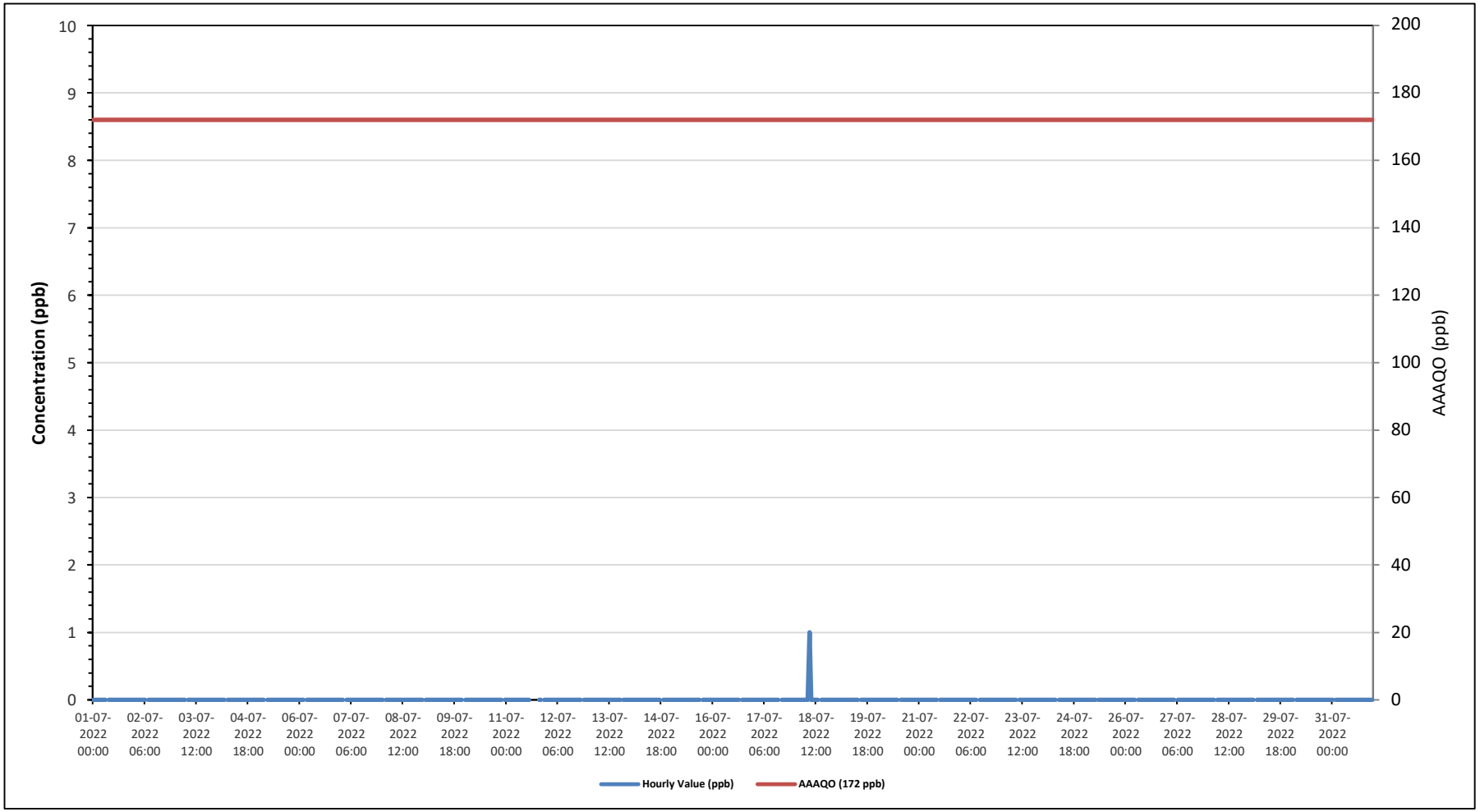
Maximum Hourly Value:	1	ppb	on July 18 at hour 8	Hours in Service:	744
Maximum Daily Value:	0.0	ppb	on July 18	Hours of Data:	707
Minimum Hourly Value:	0	ppb	on July 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.0	ppb	on July 1	Hours of Calibration:	37
Monthly Average:	0.0	ppb		Operational Uptime:	100.0

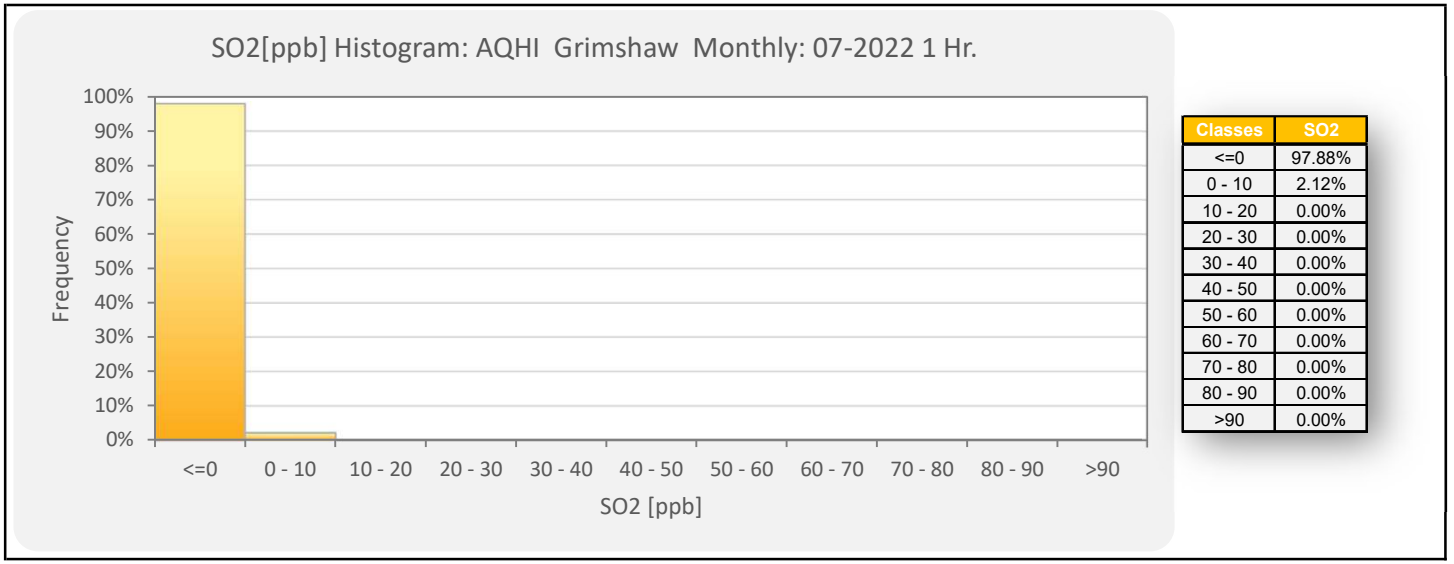
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 2	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 3	0	0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

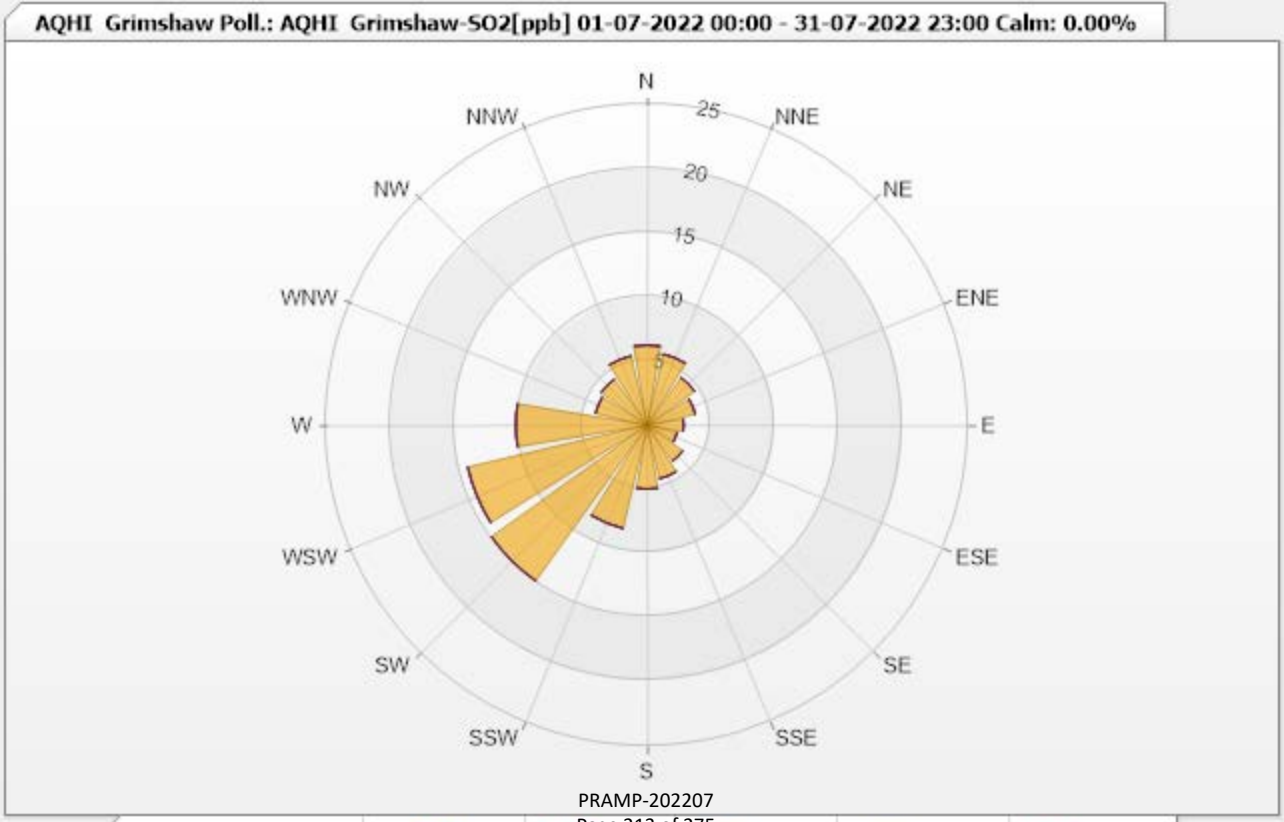




Classes	SO2
<=0	97.88%
0 - 10	2.12%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.62% Calm Avg: 0.00 [ppb]

Direction	0-10	10-50	50-100	100-172	>172.0	Total
N	6.25	0	0	0	0	6.25
NNE	5.68	0	0	0	0	5.68
NE	4.55	0	0	0	0	4.55
ENE	3.84	0	0	0	0	3.84
E	2.84	0	0	0	0	2.84
ESE	2.41	0	0	0	0	2.41
SE	3.41	0	0	0	0	3.41
SSE	4.26	0	0	0	0	4.26
S	4.97	0	0	0	0	4.97
SSW	8.24	0	0	0	0	8.24
SW	14.91	0	0	0	0	14.91
WSW	14.35	0	0	0	0	14.35
W	10.23	0	0	0	0	10.23
WNW	4.12	0	0	0	0	4.12
NW	4.4	0	0	0	0	4.4
NNW	5.54	0	0	0	0	5.54
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-SO2[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
% 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 - July 2022

Summary of Hourly Averages

TOTAL REDUCED SULPHUR (TRS) in ppb

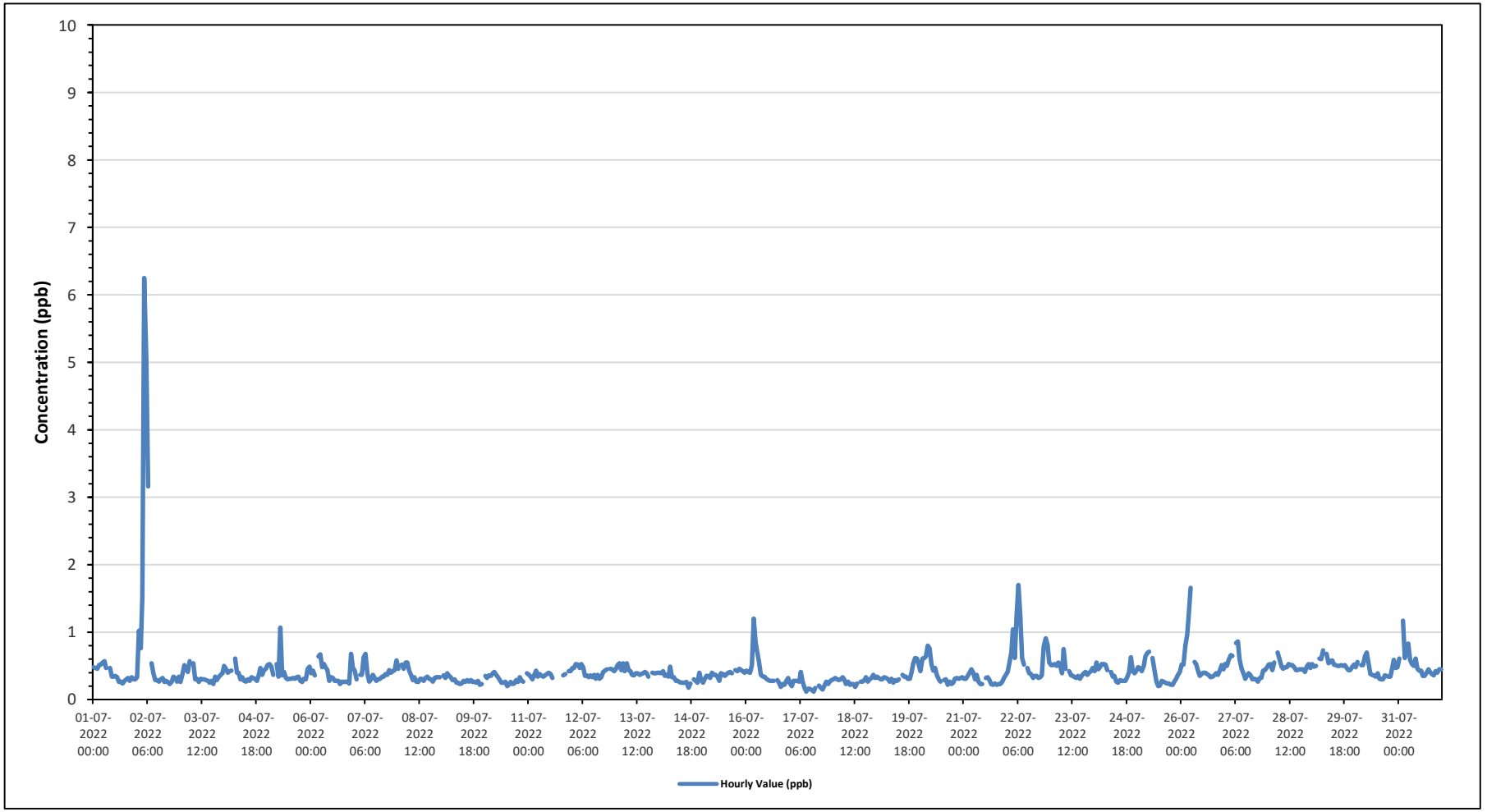
Maximum Hourly Value:	6.25	ppb	on July 2 at hour 4	Hours in Service:	744
Maximum Daily Value:	1.00	ppb	on July 2	Hours of Data:	706
Minimum Hourly Value:	0.12	ppb	on July 17 at hour 9	Hours of Missing Data:	1
Minimum Daily Value:	0.22	ppb	on July 17	Hours of Calibration:	37
Monthly Average:	0.42	ppb		Operational Uptime:	99.9

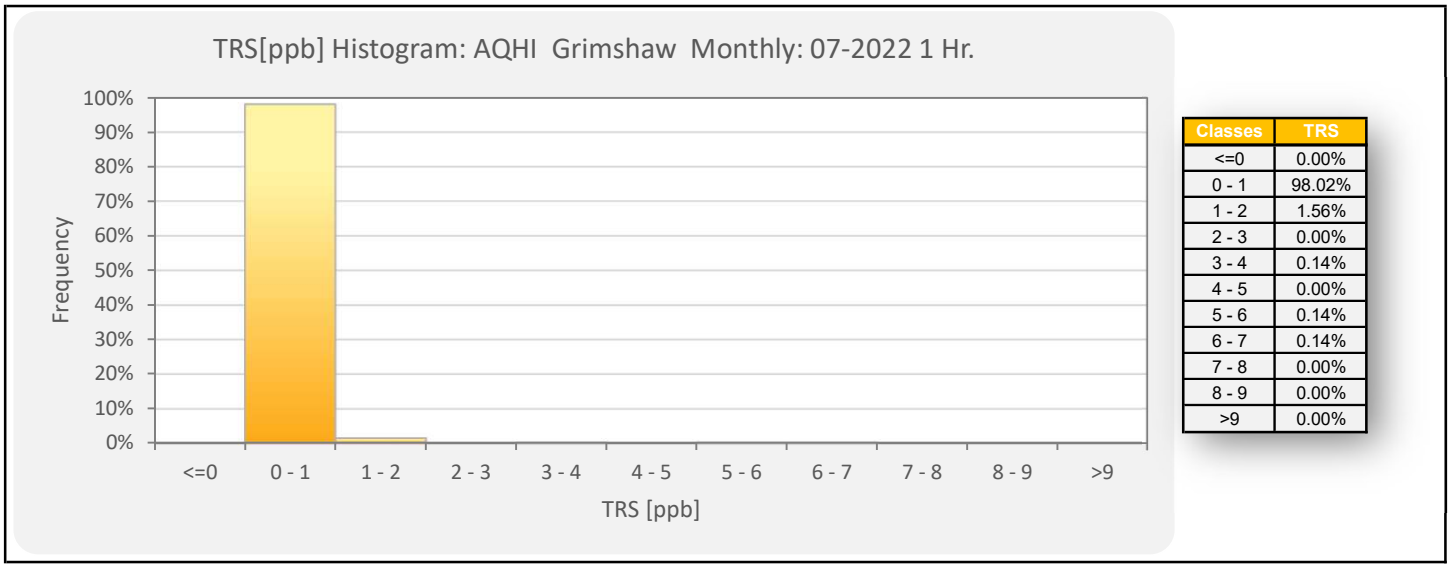
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	0.48	0.47	0.46	0.51	0.52	0.55	0.57	0.47	S	0.47	0.34	0.34	0.35	0.33	0.26	0.27	0.24	0.28	0.3	0.32	0.28	0.33	0.3	0.3	0.24	0.57	0.38
Jul 2	0.33	1.02	0.76	1.52	**6.25**	5.06	3.16	S	0.54	0.39	0.29	0.29	0.27	0.3	0.32	0.26	0.28	0.26	0.23	0.27	0.34	0.32	0.27	0.34	0.23	**6.25**	**1.00**
Jul 3	0.26	0.37	0.51	0.46	0.41	0.57	S	0.54	0.3	0.31	0.26	0.31	0.3	0.3	0.29	0.28	0.25	0.28	0.23	0.34	0.29	0.33	0.37	0.39	0.23	0.57	0.35
Jul 4	0.5	0.46	0.4	0.42	0.43	S	0.61	0.4	0.4	0.3	0.33	0.28	0.27	0.3	0.28	0.33	0.32	0.31	0.28	0.37	0.47	0.37	0.44	0.46	0.27	0.61	0.38
Jul 5	0.51	0.53	0.49	0.37	S	0.53	0.34	1.07	0.36	0.41	0.32	0.3	0.31	0.31	0.32	0.31	0.33	0.34	0.28	0.26	0.31	0.3	0.46	0.49	0.26	1.07	0.40
Jul 6	0.39	0.43	0.36	S	0.64	0.67	0.48	0.53	0.48	0.44	0.28	0.33	0.32	0.28	0.28	0.28	0.23	0.27	0.26	0.27	0.27	0.24	0.68	0.47	0.23	0.68	0.39
Jul 7	0.43	0.3	S	0.37	0.37	0.63	0.68	0.39	0.27	0.3	0.37	0.32	0.28	0.3	0.31	0.34	0.34	0.38	0.37	0.44	0.4	0.42	0.44	0.58	0.27	0.68	0.39
Jul 8	0.46	S	0.52	0.46	0.55	0.55	0.43	0.37	0.29	0.33	0.27	0.26	0.31	0.31	0.28	0.32	0.34	0.31	0.3	0.27	0.32	0.33	0.33	0.33	0.26	0.55	0.36
Jul 9	S	0.36	0.32	0.39	0.35	0.33	0.29	0.3	0.25	0.25	0.23	0.24	0.28	0.26	0.29	0.27	0.29	0.26	0.27	0.25	0.28	0.22	0.23	S	0.22	0.39	0.28
Jul 10	0.35	0.32	0.36	0.35	0.39	0.41	0.37	0.33	0.29	0.25	0.25	0.27	0.2	0.22	0.26	0.23	0.24	0.29	0.26	0.33	0.28	0.27	S	0.39	0.20	0.41	0.30
Jul 11	0.37	0.34	0.3	0.37	0.43	0.34	0.38	0.35	0.34	0.36	0.38	0.4	0.38	0.32	C	C	C	C	C	0.36	0.38	S	0.42	0.42	0.30	0.43	0.37
Jul 12	0.47	0.47	0.53	0.52	0.47	0.53	0.48	0.35	0.36	0.33	0.36	0.33	0.37	0.31	0.37	0.31	0.33	0.41	0.43	0.45	S	0.46	0.45	0.42	0.31	0.53	0.41
Jul 13	0.46	0.51	0.54	0.44	0.54	0.42	0.54	0.44	0.42	0.37	0.36	0.39	0.39	0.37	0.38	0.39	0.41	0.39	0.34	S	0.4	0.39	0.39	0.4	0.34	0.54	0.42
Jul 14	0.4	0.39	0.42	0.35	0.37	0.34	0.49	0.33	0.33	0.28	0.28	0.26	0.25	0.25	0.25	0.26	0.18	0.24	S	0.3	0.28	0.25	0.4	0.29	0.18	0.49	0.31
Jul 15	0.25	0.31	0.35	0.35	0.32	0.4	0.37	0.37	0.34	0.28	0.39	0.38	0.35	0.38	0.4	0.41	0.39	S	0.44	0.42	0.46	0.44	0.42	0.4	0.25	0.46	0.37
Jul 16	0.43	0.41	0.4	0.51	1.2	0.85	0.71	0.56	0.37	0.34	0.34	0.31	0.29	0.28	0.28	0.28	S	0.29	0.25	0.19	0.23	0.22	0.28	0.32	0.19	1.20	0.41
Jul 17	0.24	0.2	0.28	0.28	0.28	0.27	0.41	0.27	0.18	0.12	0.16	0.16	0.14	0.12	0.17	S	0.21	0.18	0.15	0.21	0.27	0.23	0.27	0.29	**0.12**	0.41	0.22
Jul 18	0.3	0.32	0.3	0.29	0.3	0.33	0.3	0.23	0.27	0.22	0.23	0.23	0.19	0.24	S	0.27	0.27	0.29	0.33	0.27	0.3	0.32	0.37	0.32	0.19	0.37	0.28
Jul 19	0.34	0.32	0.3	0.3	0.33	0.32	0.3	0.27	0.31	0.25	0.29	0.28	0.3	S	0.37	0.34	0.34	0.31	0.31	0.4	0.54	0.62	0.61	0.53	0.25	0.62	0.36
Jul 20	0.42	0.61	0.62	0.64	0.8	0.76	0.53	0.43	0.47	0.36	0.3	0.27	S	0.29	0.3	0.22	0.27	0.23	0.25	0.31	0.32	0.31	0.32	0.33	0.22	0.80	0.41
Jul 21	0.31	0.31	0.35	0.39	0.45	0.4	0.3	0.37	0.27	0.23	0.23	S	0.32	0.33	0.29	0.23	0.22	0.24	0.22	0.23	0.23	0.26	0.32	0.36	0.22	0.45	0.30
Jul 22	0.41	0.55	0.7	1.04	0.62	1.25	1.7	1.24	0.62	0.52	S	0.47	0.39	0.38	0.32	0.35	0.35	0.32	0.33	0.36	0.79	0.91	0.81	0.55	0.32	1.70	0.65
Jul 23	0.51	0.51	0.53	0.5	0.55	0.5	0.39	0.75	0.46	S	0.42	0.36	0.35	0.33	0.32	0.35	0.31	0.36	0.39	0.41	0.37	0.4	0.42	0.47	0.31	0.75	0.43
Jul 24	0.42	0.55	0.45	0.48	0.53	0.53	0.52	0.44	S	0.41	0.34	0.35	0.27	0.25	0.29	0.28	0.28	0.28	0.33	0.41	0.63	0.42	0.39	0.43	0.25	0.63	0.40
Jul 25	0.48	0.47	0.42	0.5	0.64	0.69	0.71	S	0.62	0.45	0.27	0.2	0.21	0.28	0.27	0.25	0.24	0.24	0.22	0.22	0.27	0.31	0.37	0.41	0.20	0.71	0.38
Jul 26	0.52	0.52	0.8	0.96	1.26	1.66	S	0.56	0.53	0.43	0.35	0.38	0.4	0.4	0.38	0.36	0.33	0.34	0.36	0.39	0.37	0.43	0.51	0.45	0.33	1.66	0.55
Jul 27	0.53	0.5	0.59	0.66	0.65	S	0.84	0.86	0.6	0.46	0.39	0.31	0.35	0.39	0.36	0.3	0.31	0.3	0.27	0.32	0.32	0.43	0.44	0.48	0.27	0.86	0.46
Jul 28	0.52	0.53	0.44	0.55	S	0.7	0.59	0.49	0.46	0.48	0.48	0.53	0.51	0.51	0.48	0.44	0.44	0.45	0.45	0.45	0.41	0.49	0.53	0.47	0.41	0.70	0.50
Jul 29	0.53	0.49	0.5	S	0.61	0.6	0.73	NRM	0.68	0.54	0.57	0.58	0.52	0.51	0.5	0.5	0.51	0.5	0.51	0.47	0.44	0.44	0.48	0.52	0.44	0.73	0.53
Jul 30	0.48	0.56	S	0.51	0.51	0.64	0.7	0.54	0.38	0.37	0.36	0.34	0.39	0.31	0.3	0.3	0.36	0.35	0.34	0.34	0.47	0.59	0.47	0.48	0.30	0.70	0.44
Jul 31	0.61	S	1.17	0.62	0.79	0.83	0.59	0.53	0.5	0.61	0.46	0.43	0.43	0.35	0.35	0.4	0.45	0.41	0.38	0.36	0.42	0.4	0.45	0.45	0.35	1.17	0.52
Diurnal Maximum	0.61	1.02	1.17	1.52	6.25	5.06	3.16	1.24	0.68	0.61	0.57	0.58	0.52	0.51	0.50	0.50	0.51	0.50	0.51	0.47	0.79	0.91	0.81	0.58			
Diurnal Average	0.42	0.45	0.49	0.52	0.74	0.75	0.64	0.49	0.40	0.36	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.31	0.33	0.37	0.38	0.42	0.42			

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

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

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

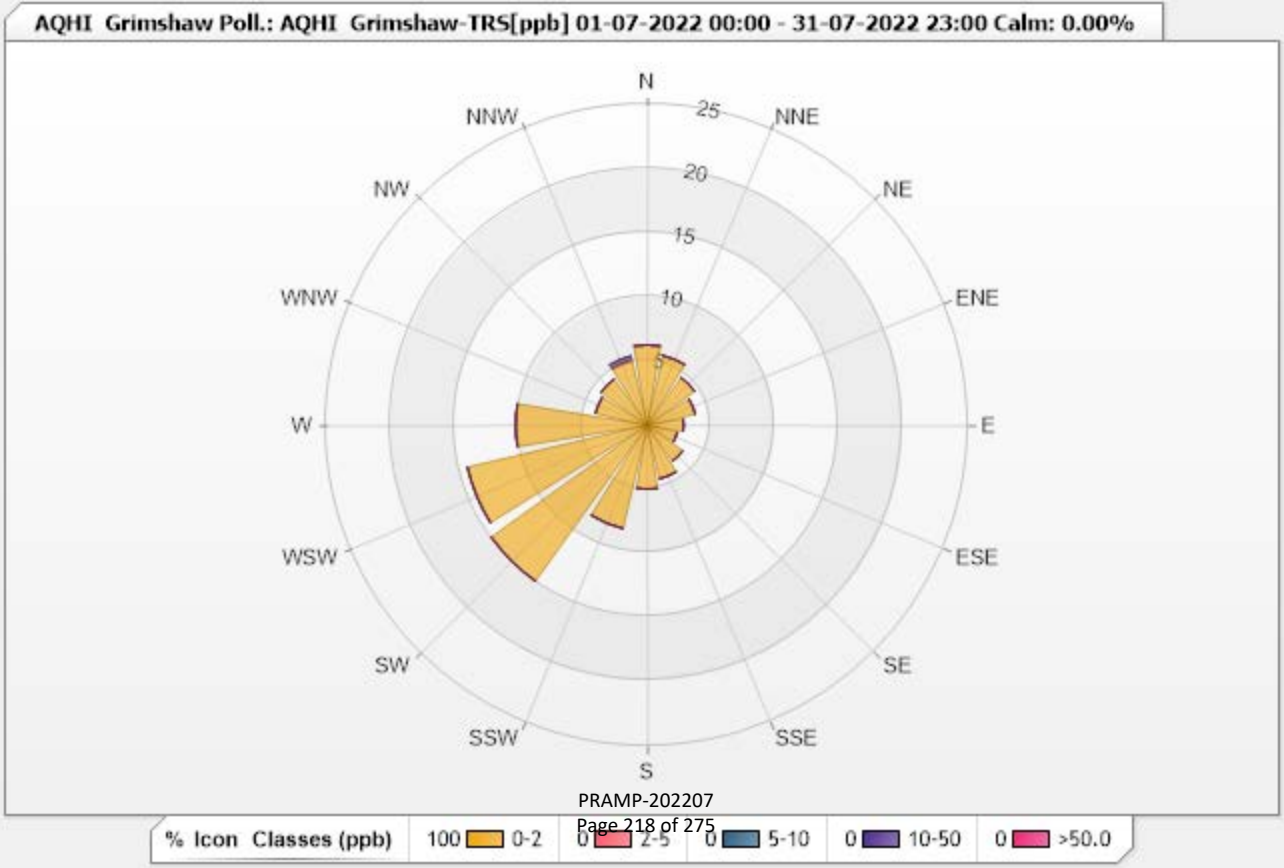




Classes	TRS
<=0	0.00%
0 - 1	98.02%
1 - 2	1.56%
2 - 3	0.00%
3 - 4	0.14%
4 - 5	0.00%
5 - 6	0.14%
6 - 7	0.14%
7 - 8	0.00%
8 - 9	0.00%
>9	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.49% Calm Avg: 0.00 [ppb]

Direction	0-2	2-5	5-10	10-50	>50.0	Total
N	6.26	0	0	0	0	6.26
NNE	5.55	0	0	0	0	5.55
NE	4.55	0	0	0	0	4.55
ENE	3.84	0	0	0	0	3.84
E	2.84	0	0	0	0	2.84
ESE	2.42	0	0	0	0	2.42
SE	3.41	0	0	0	0	3.41
SSE	4.27	0	0	0	0	4.27
S	4.98	0	0	0	0	4.98
SSW	8.25	0	0	0	0	8.25
SW	14.94	0	0	0	0	14.94
WSW	14.37	0	0	0	0	14.37
W	10.24	0	0	0	0	10.24
WNW	4.13	0	0	0	0	4.13
NW	4.41	0	0	0	0	4.41
NNW	5.12	0.14	0.28	0	0	5.54
Summary	100	0.14	0.28	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-TRS[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (ppb)
100 0-2
0 2-5
0 5-10
0 10-50
0 >50.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - July 2022

Summary of Hourly Averages

OXIDES OF NITROGEN (NOx) in ppb

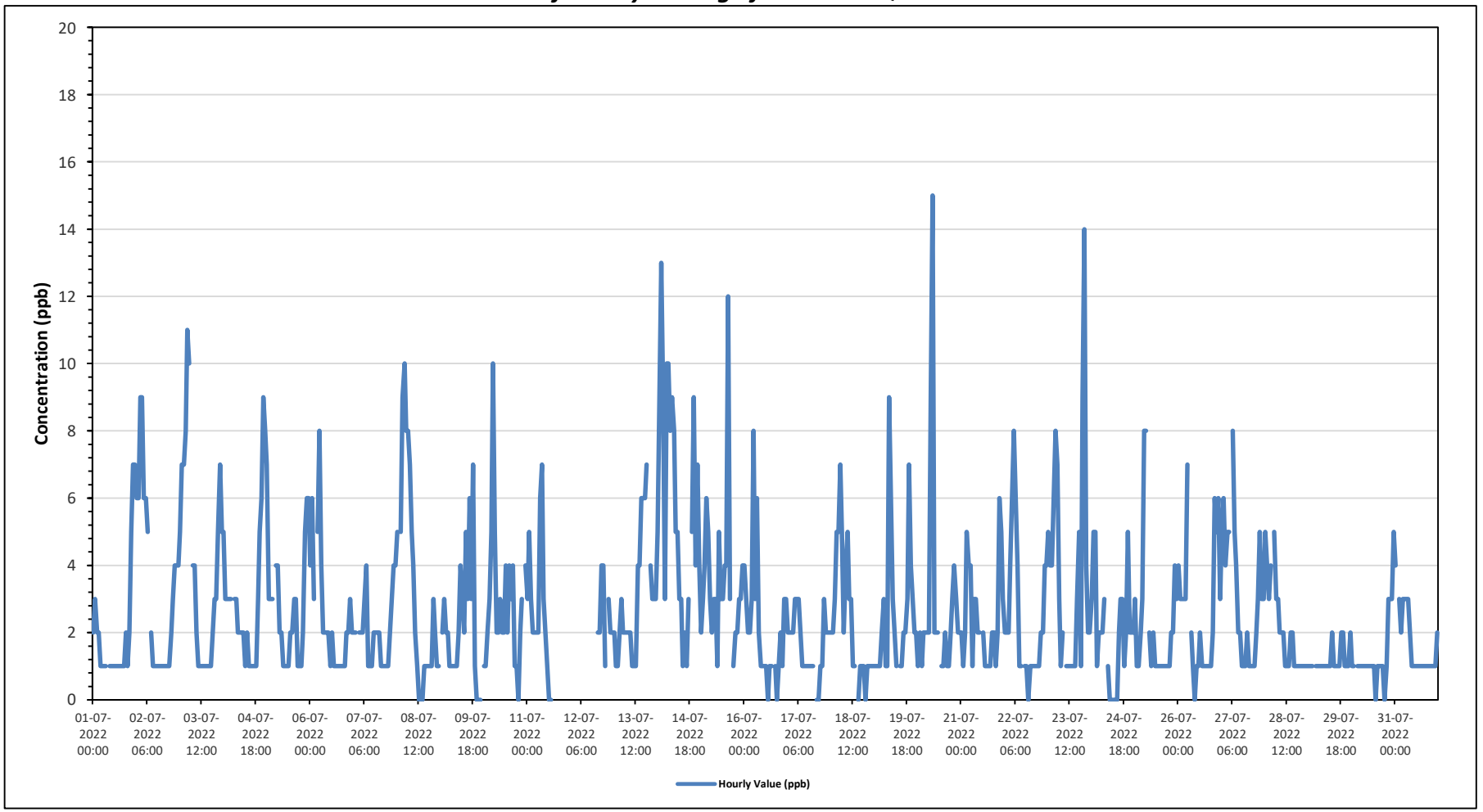
Maximum Hourly Value:	15	ppb	on July 20 at hour 8	Hours in Service:	744
Maximum Daily Value:	5.9	ppb	on July 14	Hours of Data:	688
Minimum Hourly Value:	0	ppb	on July 8 at hour 12	Hours of Missing Data:	18
Minimum Daily Value:	1.2	ppb	on July 29	Hours of Calibration:	38
Monthly Average:	2.6	ppb		Operational Uptime:	97.6

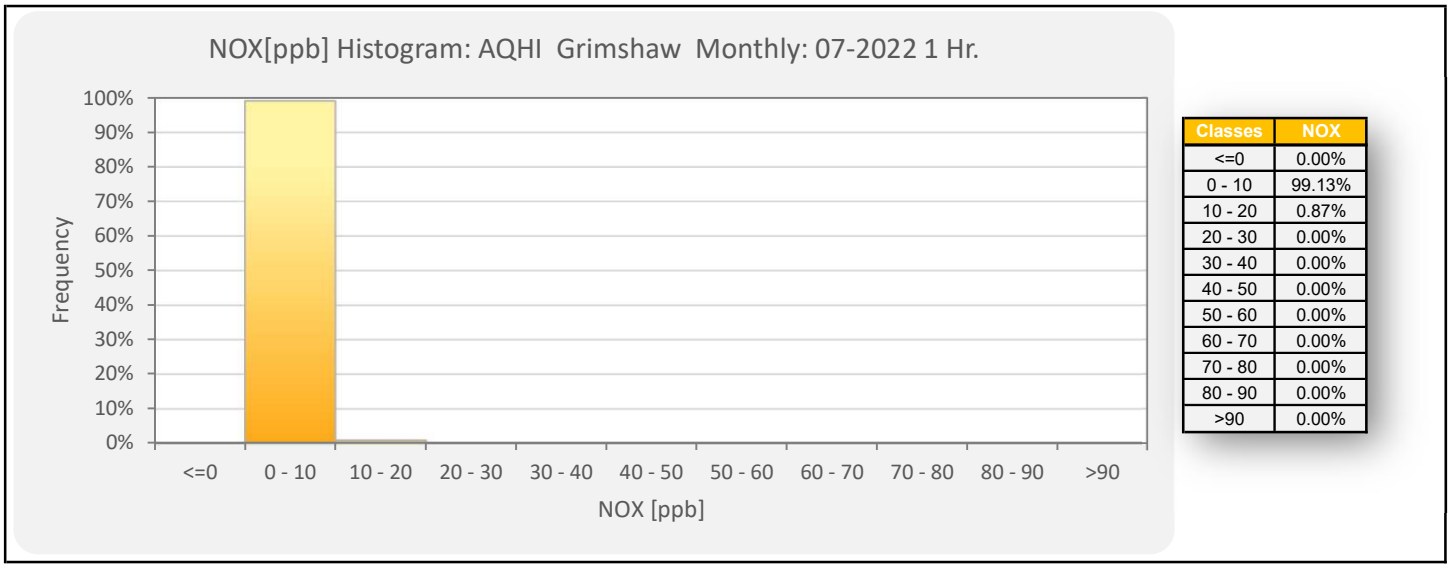
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	2	3	2	2	1	1	1	1	S	1	1	1	1	1	1	1	1	1	2	1	2	5	7	7	1	7	2.0
Jul 2	6	6	9	9	6	6	5	S	2	1	1	1	1	1	1	1	1	1	1	2	3	4	4	4	1	9	3.3
Jul 3	5	7	7	8	11	10	S	4	4	2	1	1	1	1	1	1	1	1	2	3	3	5	7	5	1	11	4.0
Jul 4	5	3	3	3	3	S	3	3	2	2	2	2	1	2	1	1	1	1	1	3	5	6	9	8	1	9	3.0
Jul 5	7	3	3	3	S	4	4	2	2	1	1	1	1	2	2	3	3	1	1	1	2	5	6	6	1	7	2.8
Jul 6	4	6	3	S	5	8	4	2	2	2	2	1	2	1	1	1	1	1	1	1	2	2	3	2	1	8	2.5
Jul 7	2	2	S	2	2	2	3	4	1	1	1	2	2	2	2	1	1	1	1	1	2	3	4	4	1	4	2.0
Jul 8	5	S	5	9	10	8	8	7	5	4	2	1	0	0	0	1	1	1	1	1	3	2	1	1	0	10	3.3
Jul 9	S	2	3	2	2	1	1	1	1	1	2	4	3	2	5	3	6	3	7	1	0	0	0	S	0	7	2.3
Jul 10	1	1	2	3	5	10	5	2	2	3	2	2	4	2	4	3	4	1	1	0	2	3	S	4	0	10	2.9
Jul 11	3	5	3	2	2	2	2	6	7	3	2	1	0	0	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0	7	-
Jul 12	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	C	C	C	2	2	4	4	1	S	3	2	2	1	4	-
Jul 13	2	1	1	2	3	2	2	2	2	2	1	1	1	4	4	6	6	6	7	S	4	3	3	3	1	7	3.0
Jul 14	5	9	13	9	3	10	10	8	9	8	5	5	3	3	1	2	1	3	S	5	9	4	7	4	1	13	**5.9**
Jul 15	2	3	4	6	5	3	2	3	3	1	5	3	3	4	4	12	3	S	1	2	2	3	3	4	1	12	3.5
Jul 16	4	3	2	2	3	8	3	6	2	1	1	1	1	0	1	1	S	1	0	1	2	1	3	3	0	8	2.2
Jul 17	2	2	2	2	3	3	3	2	1	1	1	1	1	1	1	S	0	0	1	1	3	2	2	2	0	3	1.6
Jul 18	2	2	3	5	5	7	5	2	4	5	3	3	1	1	S	0	1	1	1	0	1	1	1	1	0	7	2.4
Jul 19	1	1	1	1	2	3	1	1	9	6	3	2	1	S	1	1	2	2	3	7	4	3	2	2	1	9	2.6
Jul 20	1	2	1	2	2	2	2	9	**15**	2	2	2	S	1	1	2	1	1	2	3	4	3	2	2	1	**15**	2.8
Jul 21	2	1	2	5	4	4	1	3	3	2	2	S	2	1	1	1	1	2	2	1	2	6	5	3	1	6	2.4
Jul 22	2	2	2	4	6	8	6	4	1	1	S	1	1	0	1	1	1	1	1	1	2	2	4	4	0	8	2.4
Jul 23	5	4	4	6	8	7	3	1	2	S	1	1	1	1	1	1	3	5	1	9	14	4	2	2	1	14	3.7
Jul 24	3	5	5	1	2	2	2	3	S	1	0	0	0	0	0	2	3	3	1	2	5	2	2	2	0	5	2.0
Jul 25	3	1	1	2	3	8	8	S	2	1	2	1	1	1	1	1	1	1	1	1	2	2	4	3	1	8	2.2
Jul 26	4	3	3	3	3	7	S	2	1	0	1	1	2	1	1	1	1	1	1	2	6	5	6	3	0	7	2.5
Jul 27	5	6	4	5	5	S	8	5	4	2	2	1	1	1	2	1	1	1	1	2	3	5	3	3	1	8	3.1
Jul 28	5	4	3	4	S	5	3	3	2	2	2	1	1	1	2	2	1	1	1	1	1	1	1	1	1	5	2.1
Jul 29	1	1	1	S	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	2	1	1	1	2	1	2	1.2
Jul 30	1	1	S	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	3	3	3	5	0	5	1.3
Jul 31	4	S	3	2	3	3	3	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	4	1.7
Diurnal Maximum	7	9	13	9	11	10	10	9	15	8	5	5	4	4	5	12	6	6	7	9	14	6	9	8			
Diurnal Average	3.2	3.2	3.4	3.8	3.9	4.9	3.6	3.3	3.3	2.0	1.8	1.5	1.3	1.3	1.5	1.9	1.8	1.7	1.7	2.0	3.2	3.0	3.4	3.2			

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 NOx - AQHI - Grimshaw Station

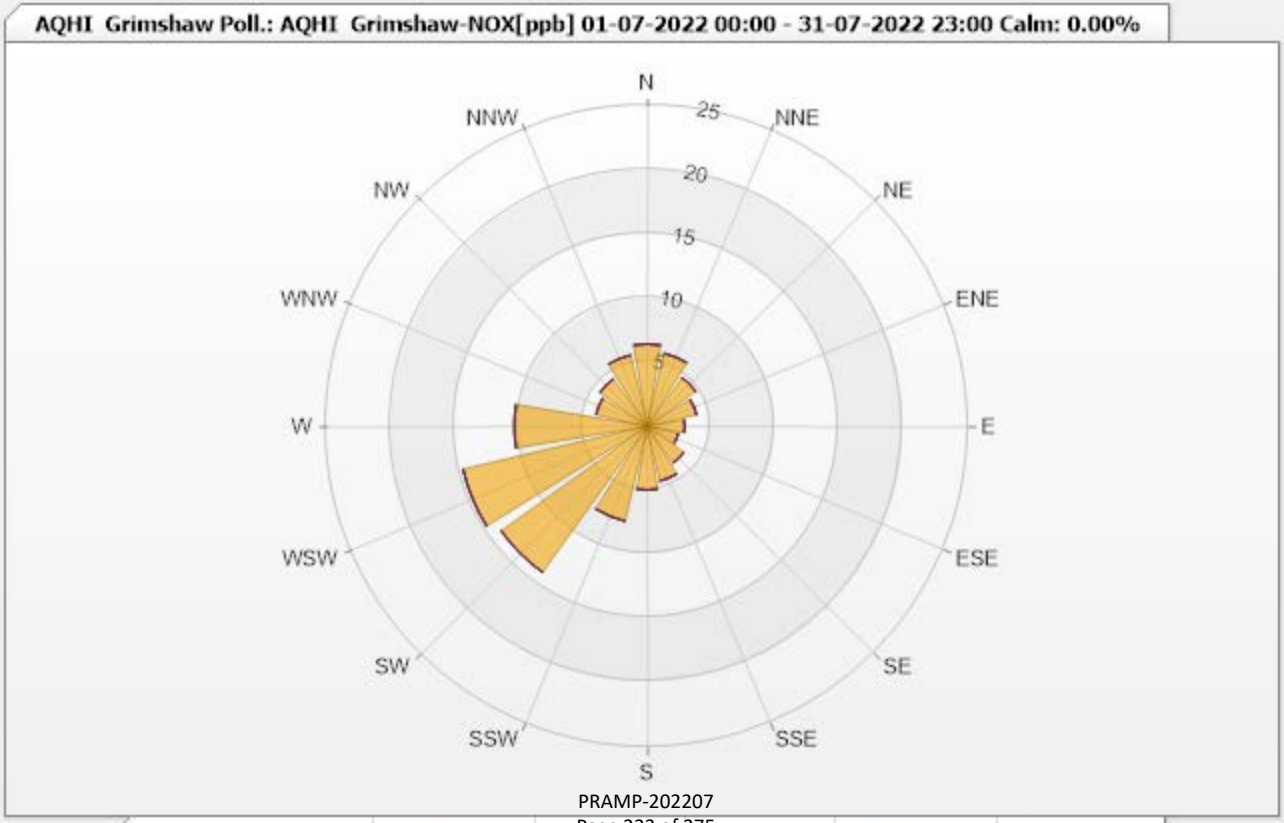




Classes	NOX
<=0	0.00%
0 - 10	99.13%
10 - 20	0.87%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 92.20% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	6.41	0	0	0	0	6.41
NNE	5.83	0	0	0	0	5.83
NE	4.66	0	0	0	0	4.66
ENE	3.94	0	0	0	0	3.94
E	2.92	0	0	0	0	2.92
ESE	2.48	0	0	0	0	2.48
SE	3.5	0	0	0	0	3.5
SSE	4.37	0	0	0	0	4.37
S	4.96	0	0	0	0	4.96
SSW	7.58	0	0	0	0	7.58
SW	13.99	0	0	0	0	13.99
WSW	14.72	0	0	0	0	14.72
W	10.35	0	0	0	0	10.35
WNW	4.08	0	0	0	0	4.08
NW	4.52	0	0	0	0	4.52
NNW	5.69	0	0	0	0	5.69
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NOX[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
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 - July 2022

Summary of Hourly Averages

NITRIC OXIDE (NO) in ppb

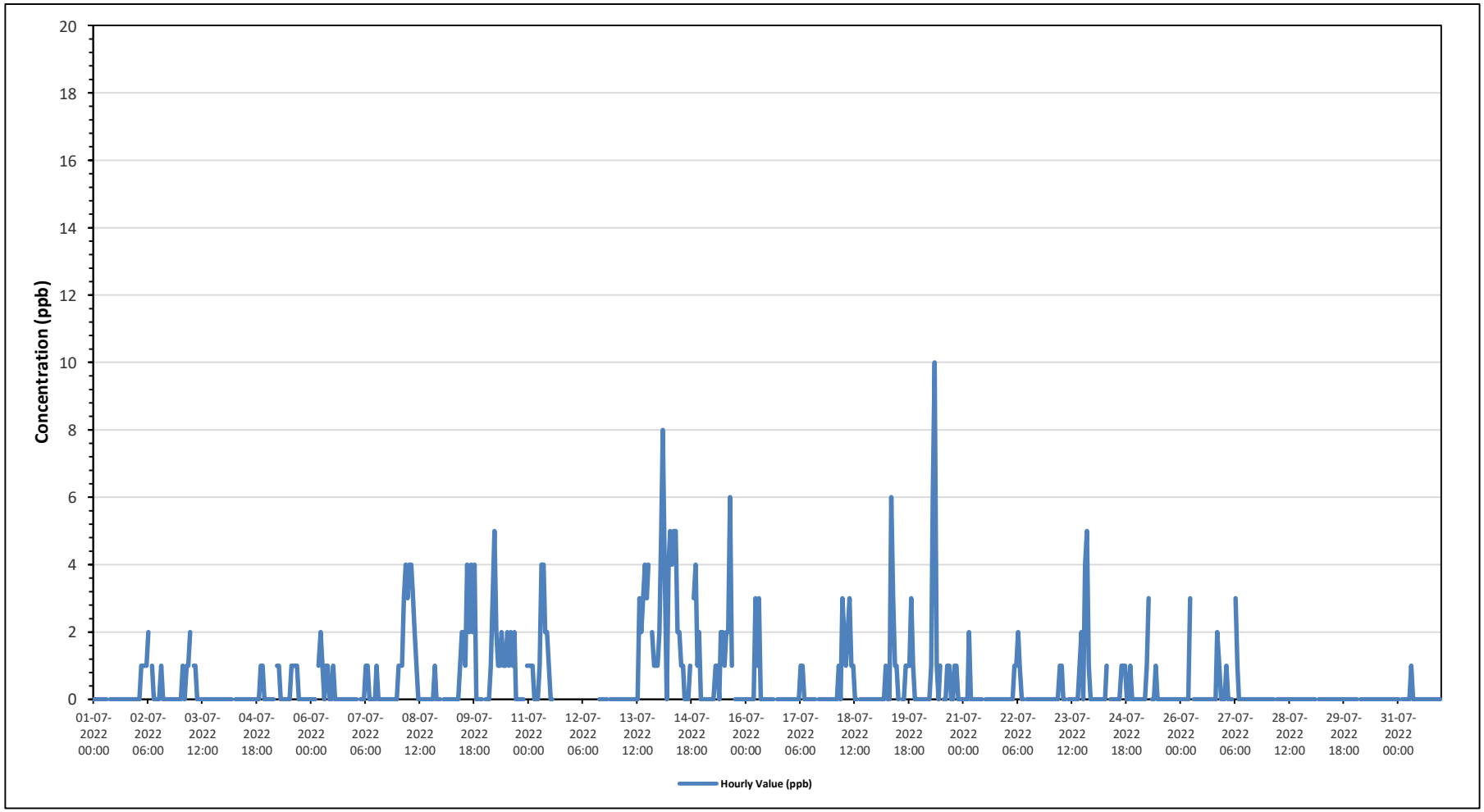
Maximum Hourly Value:	10	ppb	on July 20 at hour 8	Hours in Service:	744
Maximum Daily Value:	2.6	ppb	on July 14	Hours of Data:	688
Minimum Hourly Value:	0	ppb	on July 1 at hour 0	Hours of Missing Data:	18
Minimum Daily Value:	0.0	ppb	on July 1	Hours of Calibration:	38
Monthly Average:	0.5	ppb		Operational Uptime:	97.6

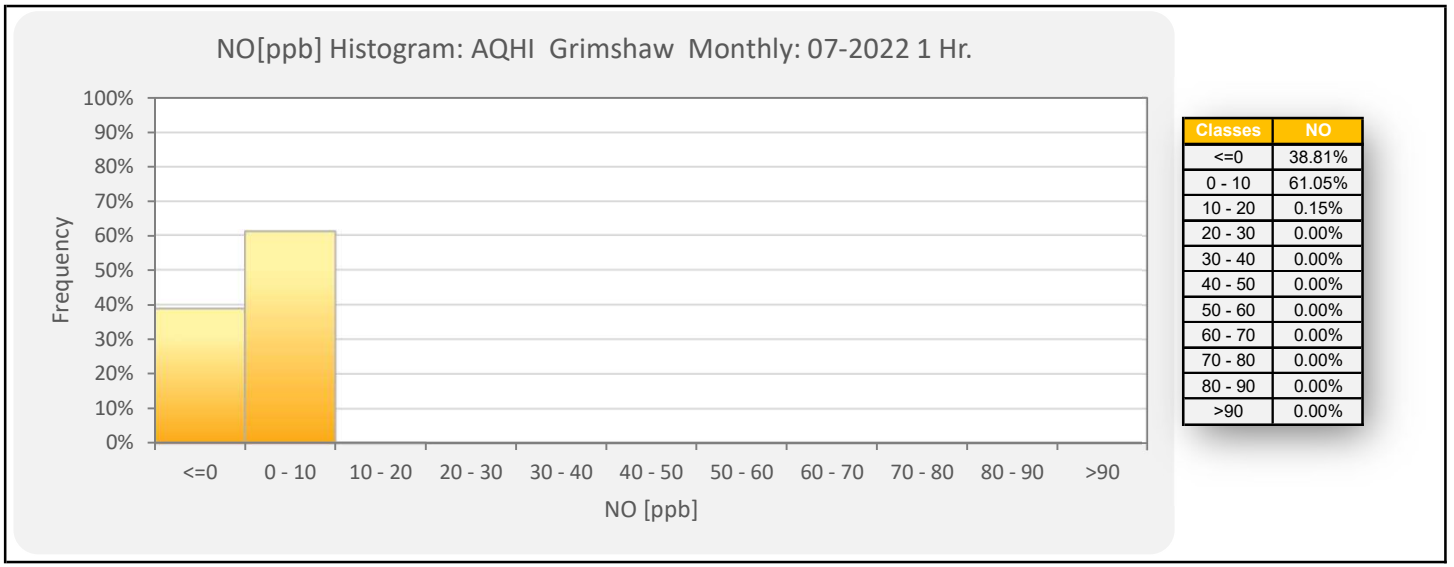
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Jul 2	0	0	1	1	1	1	2	S	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0.3
Jul 3	0	1	0	1	1	2	S	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3
Jul 4	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0.1
Jul 5	0	0	0	0	S	1	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	1	0.3
Jul 6	0	0	0	S	1	2	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3
Jul 7	0	0	S	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
Jul 8	1	S	1	3	4	3	4	4	3	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4	1.2
Jul 9	S	0	0	0	0	0	0	0	0	0	1	2	2	1	4	2	4	2	4	0	0	0	0	S	0	4	1.0
Jul 10	0	0	0	1	3	5	2	1	1	2	1	1	2	1	2	1	2	0	0	0	0	0	S	1	0	5	1.1
Jul 11	1	1	1	0	0	0	1	4	4	2	2	1	0	0	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	0	4	-
Jul 12	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	C	C	C	0	0	0	0	0	S	0	0	0	0	0	-
Jul 13	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	3	4	3	4	S	2	1	1	1	0	4	1.0
Jul 14	2	5	8	4	0	4	5	4	5	5	2	2	1	1	0	0	0	1	S	3	4	1	2	0	0	8	**2.6**
Jul 15	0	0	0	0	0	0	0	1	1	0	2	2	1	2	2	6	1	S	0	0	0	0	0	0	0	6	0.8
Jul 16	0	0	0	0	0	3	1	3	0	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	3	0.3
Jul 17	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
Jul 18	0	0	0	1	0	3	2	1	2	3	1	1	0	0	S	0	0	0	0	0	0	0	0	0	0	3	0.6
Jul 19	0	0	0	0	0	1	0	0	6	3	1	1	0	S	0	0	1	1	1	3	1	0	0	0	0	6	0.8
Jul 20	0	0	0	0	0	0	1	6	**10**	1	0	1	S	0	0	1	1	0	0	1	1	0	0	0	0	**10**	1.0
Jul 21	0	0	0	2	0	0	0	0	0	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.1
Jul 22	0	0	0	0	1	1	2	1	0	0	S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.2
Jul 23	0	0	0	0	0	1	1	0	0	S	0	0	0	0	0	0	1	2	0	4	5	1	0	0	0	5	0.7
Jul 24	0	0	0	0	0	0	0	1	S	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	1	0.2
Jul 25	0	0	0	0	0	1	3	S	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.2
Jul 26	0	0	0	0	0	3	S	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	3	0.3
Jul 27	0	1	0	0	0	S	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.2
Jul 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
Jul 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
Jul 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
Jul 31	0	S	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Diurnal Maximum	2	5	8	4	4	5	5	6	10	5	2	2	2	3	4	6	4	3	4	4	5	1	2	1			
Diurnal Average	0.1	0.3	0.4	0.5	0.4	1.1	1.1	1.1	1.3	0.7	0.4	0.4	0.3	0.3	0.4	0.5	0.6	0.3	0.3	0.4	0.6	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

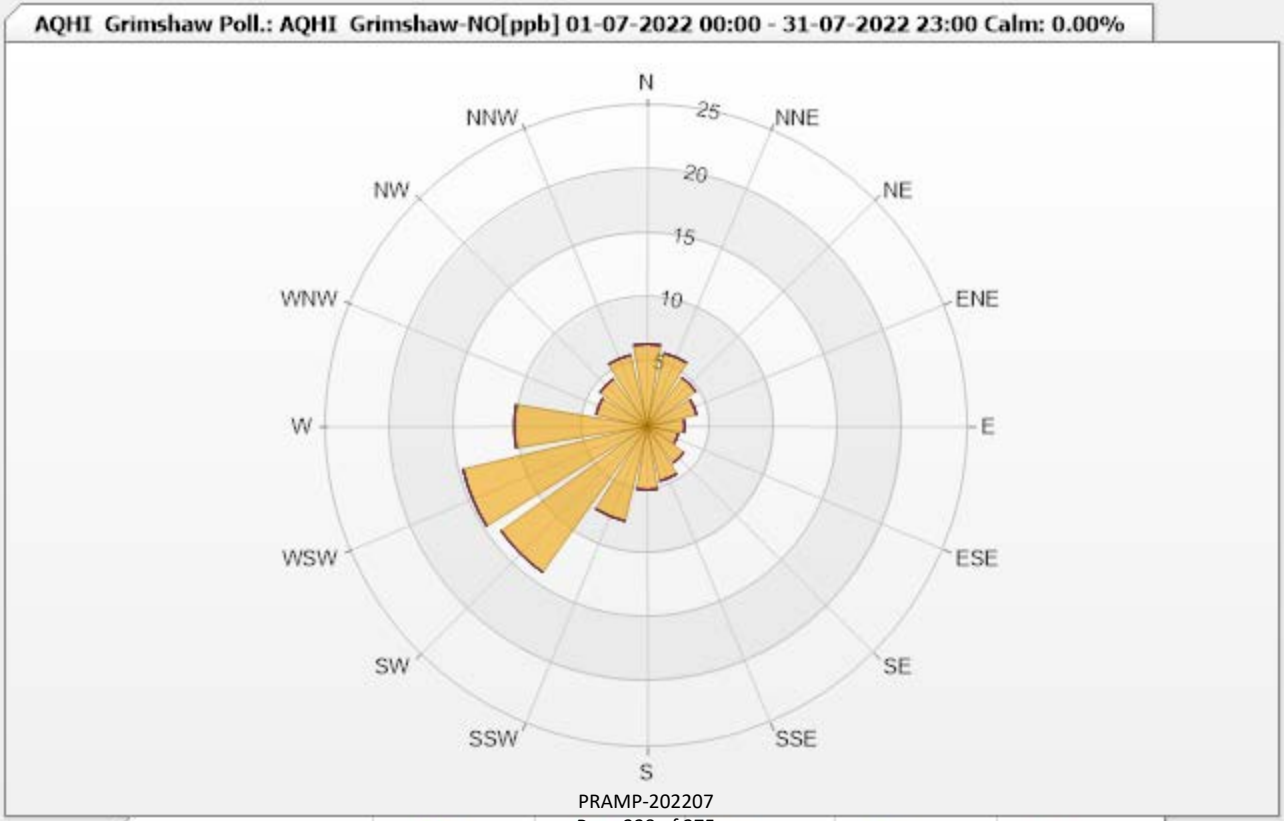




Classes	NO
<=0	38.81%
0 - 10	61.05%
10 - 20	0.15%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 92.20% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	6.41	0	0	0	0	6.41
NNE	5.83	0	0	0	0	5.83
NE	4.66	0	0	0	0	4.66
ENE	3.94	0	0	0	0	3.94
E	2.92	0	0	0	0	2.92
ESE	2.48	0	0	0	0	2.48
SE	3.5	0	0	0	0	3.5
SSE	4.37	0	0	0	0	4.37
S	4.96	0	0	0	0	4.96
SSW	7.58	0	0	0	0	7.58
SW	13.99	0	0	0	0	13.99
WSW	14.72	0	0	0	0	14.72
W	10.35	0	0	0	0	10.35
WNW	4.08	0	0	0	0	4.08
NW	4.52	0	0	0	0	4.52
NNW	5.69	0	0	0	0	5.69
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NO[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
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 - July 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

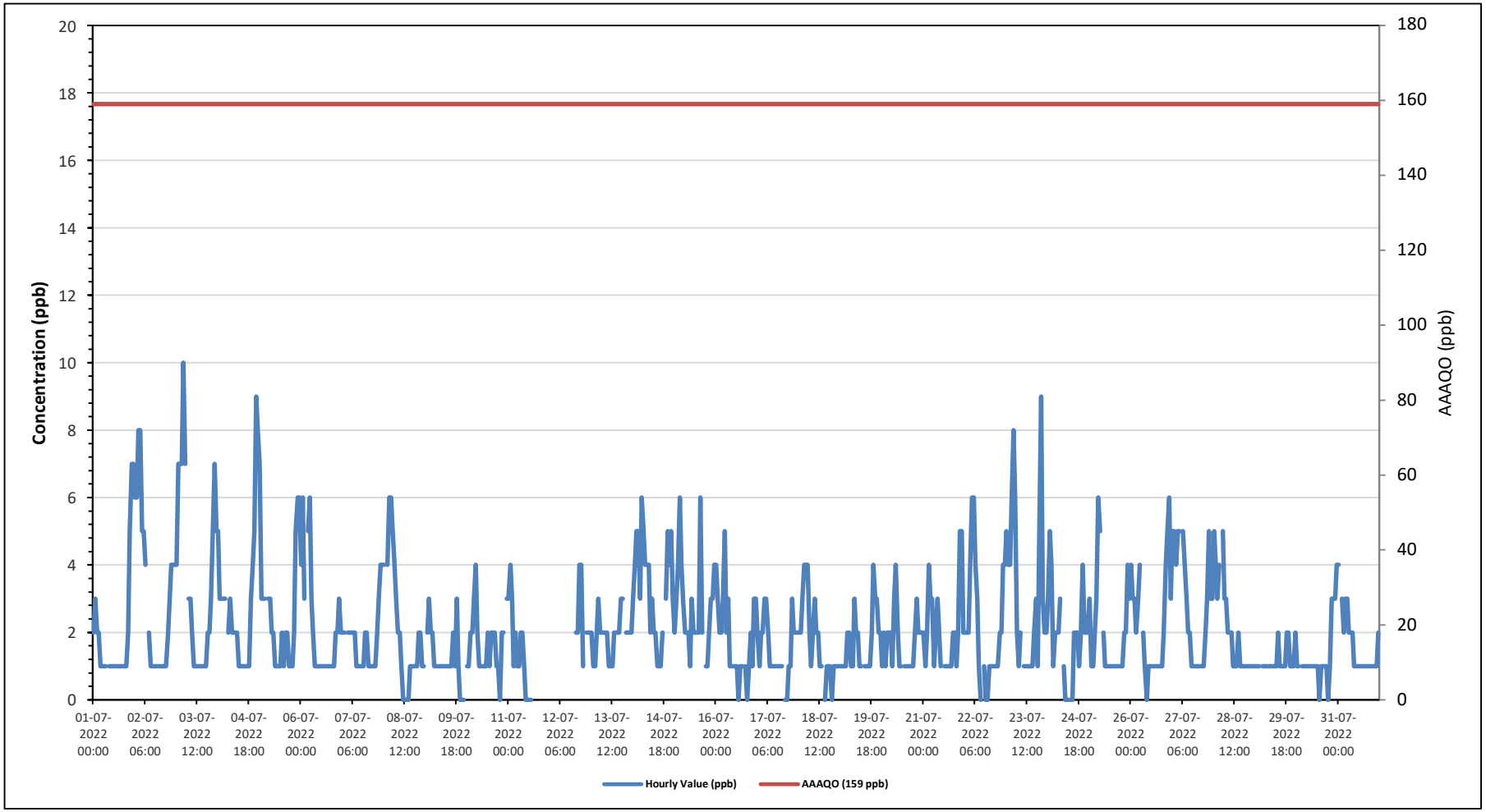
Maximum Hourly Value:	10	ppb	on July 3 at hour 4	Hours in Service:	744
Maximum Daily Value:	3.6	ppb	on July 3	Hours of Data:	688
Minimum Hourly Value:	0	ppb	on July 8 at hour 11	Hours of Missing Data:	18
Minimum Daily Value:	1.2	ppb	on July 29	Hours of Calibration:	38
Monthly Average:	2.1	ppb		Operational Uptime:	97.6

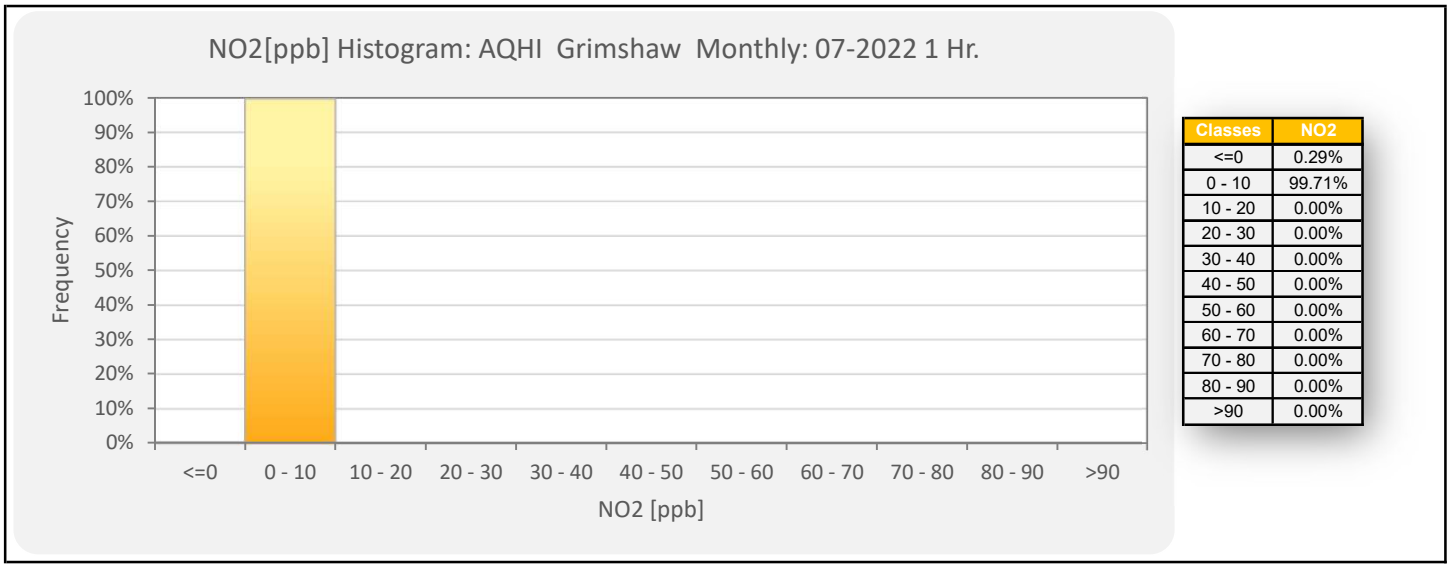
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	2	3	2	2	1	1	1	1	S	1	1	1	1	1	1	1	1	1	1	1	2	5	7	7	1	7	2.0
Jul 2	6	6	8	8	5	5	4	S	2	1	1	1	1	1	1	1	1	1	1	2	3	4	4	4	1	8	3.1
Jul 3	4	7	7	7	10	7	S	3	3	2	1	1	1	1	1	1	1	1	2	2	3	5	7	5	1	**10**	**3.6**
Jul 4	5	3	3	3	3	S	2	3	2	2	2	1	1	1	1	1	1	1	1	3	4	5	9	8	1	9	2.9
Jul 5	7	3	3	3	S	3	3	2	2	1	1	1	1	2	1	2	2	1	1	1	2	5	6	6	1	7	2.6
Jul 6	4	6	3	S	5	6	3	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	2	1	6	2.2
Jul 7	2	2	S	2	2	2	2	2	1	1	1	1	1	2	2	1	1	1	1	1	2	3	4	4	1	4	1.8
Jul 8	4	S	4	6	6	5	4	3	2	2	1	0	0	0	0	1	1	1	1	1	2	2	1	1	**0**	6	2.1
Jul 9	S	2	3	2	2	1	1	1	1	1	1	1	1	1	1	1	2	1	3	1	0	0	0	S	**0**	3	1.2
Jul 10	1	1	2	2	3	4	2	1	1	1	1	1	2	1	2	2	2	1	1	0	2	2	S	3	**0**	4	1.7
Jul 11	3	4	3	1	2	1	1	2	2	1	0	0	0	0	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	**0**	4	-
Jul 12	NRM	NRM	NRM	NRM	NRM	NRM	NRM	NRM	C	C	C	C	C	C	C	2	2	4	4	1	S	2	2	2	1	4	-
Jul 13	2	1	1	2	3	2	2	2	2	2	1	1	1	2	2	2	2	3	3	S	2	2	2	2	1	3	1.9
Jul 14	3	4	5	5	3	6	5	4	4	4	2	3	2	2	1	1	1	2	S	3	5	4	5	3	1	6	3.3
Jul 15	2	3	4	6	4	3	2	2	2	1	3	2	2	2	2	6	2	S	1	1	2	3	3	4	1	6	2.7
Jul 16	4	3	2	2	3	5	2	3	1	1	1	1	1	0	1	1	S	1	0	1	2	1	3	3	**0**	5	1.8
Jul 17	2	1	2	2	3	3	2	1	1	1	1	1	1	1	1	S	0	0	1	1	3	2	2	2	**0**	3	1.5
Jul 18	2	2	3	4	4	4	2	1	2	3	2	2	1	1	S	0	1	1	1	0	1	1	1	1	**0**	4	1.7
Jul 19	1	1	1	1	2	2	1	1	3	2	2	1	1	S	1	1	1	1	2	4	3	3	2	2	1	4	1.7
Jul 20	1	2	1	2	2	2	1	3	4	2	1	1	S	1	1	1	1	1	1	2	3	2	2	2	1	4	1.7
Jul 21	2	1	2	4	3	3	1	2	3	2	1	S	1	1	1	1	1	2	2	1	2	5	5	2	1	5	2.1
Jul 22	2	2	2	4	6	6	4	3	1	0	S	1	0	0	1	1	1	1	1	1	2	2	4	4	**0**	6	2.1
Jul 23	5	4	4	6	8	6	2	1	2	S	1	1	1	1	1	1	2	3	1	5	9	3	2	2	1	9	3.1
Jul 24	3	5	4	1	2	2	2	3	S	1	0	0	0	0	0	2	2	2	1	2	4	2	2	2	**0**	5	1.8
Jul 25	3	1	1	2	3	6	5	S	2	1	1	1	1	1	1	1	1	1	1	1	2	2	4	3	1	6	2.0
Jul 26	4	3	3	2	3	4	S	2	1	0	1	1	1	1	1	1	1	1	1	2	4	5	6	3	**0**	6	2.2
Jul 27	5	5	4	5	5	S	5	4	3	2	2	1	1	1	1	1	1	1	1	2	3	5	3	3	1	5	2.8
Jul 28	5	4	3	4	S	5	3	3	2	2	2	1	1	1	2	1	1	1	1	1	1	1	1	1	1	5	2.0
Jul 29	1	1	1	S	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	2	1	1	1	2	1	2	1.2
Jul 30	1	1	S	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	3	3	3	4	**0**	4	1.3
Jul 31	4	S	3	2	3	3	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	4	1.6
Diurnal Maximum	7	7	8	8	10	7	5	4	4	4	3	3	2	2	2	6	2	4	4	5	9	5	9	8			
Diurnal Average	3.1	2.9	3.0	3.3	3.5	3.5	2.4	2.1	1.9	1.4	1.2	1.1	1.0	1.0	1.1	1.3	1.2	1.3	1.3	1.6	2.6	2.8	3.3	3.1			

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 NO2 - AQHI - Grimshaw Station

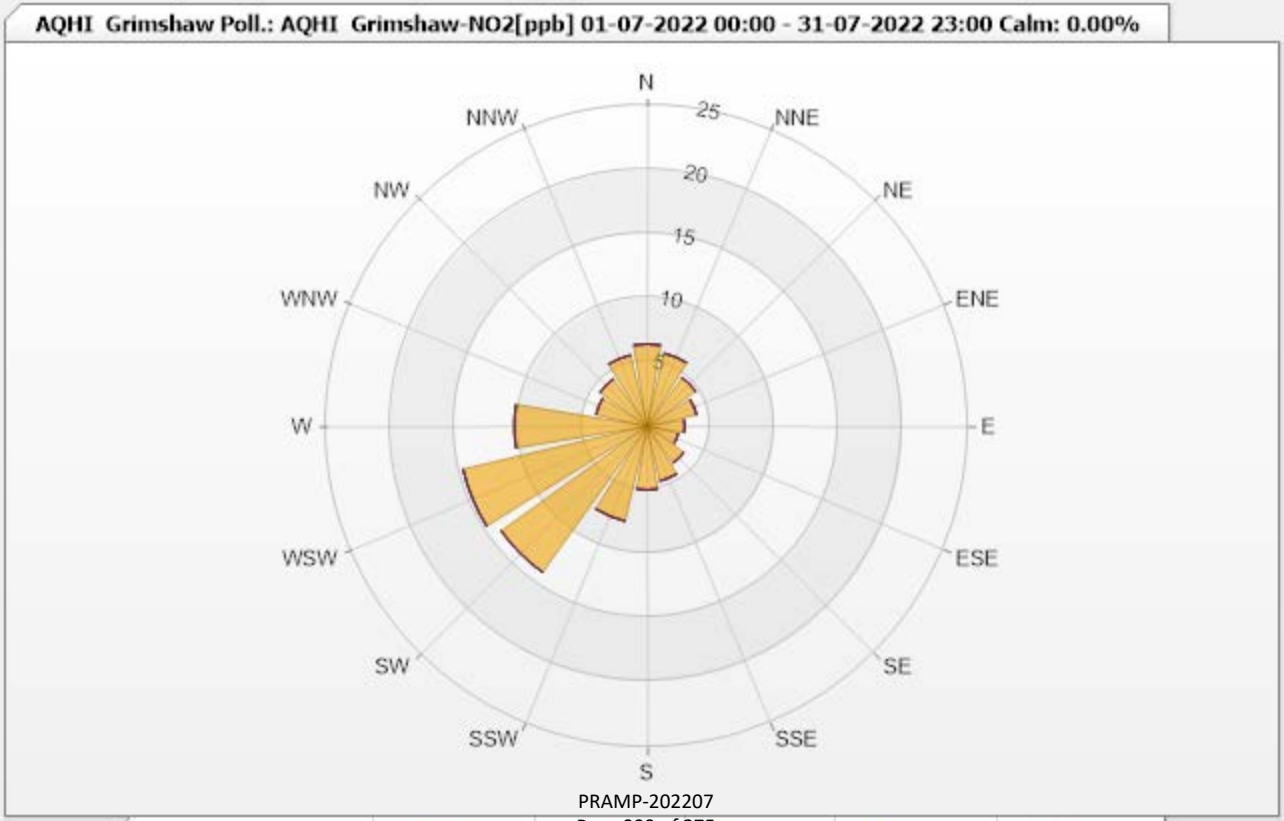




Classes	NO2
<=0	0.29%
0 - 10	99.71%
10 - 20	0.00%
20 - 30	0.00%
30 - 40	0.00%
40 - 50	0.00%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 92.20% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	6.41	0	0	0	0	6.41
NNE	5.83	0	0	0	0	5.83
NE	4.66	0	0	0	0	4.66
ENE	3.94	0	0	0	0	3.94
E	2.92	0	0	0	0	2.92
ESE	2.48	0	0	0	0	2.48
SE	3.5	0	0	0	0	3.5
SSE	4.37	0	0	0	0	4.37
S	4.96	0	0	0	0	4.96
SSW	7.58	0	0	0	0	7.58
SW	13.99	0	0	0	0	13.99
WSW	14.72	0	0	0	0	14.72
W	10.35	0	0	0	0	10.35
WNW	4.08	0	0	0	0	4.08
NW	4.52	0	0	0	0	4.52
NNW	5.69	0	0	0	0	5.69
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NO2[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
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 - July 2022

Summary of Hourly Averages

OZONE (O_3) in ppb

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

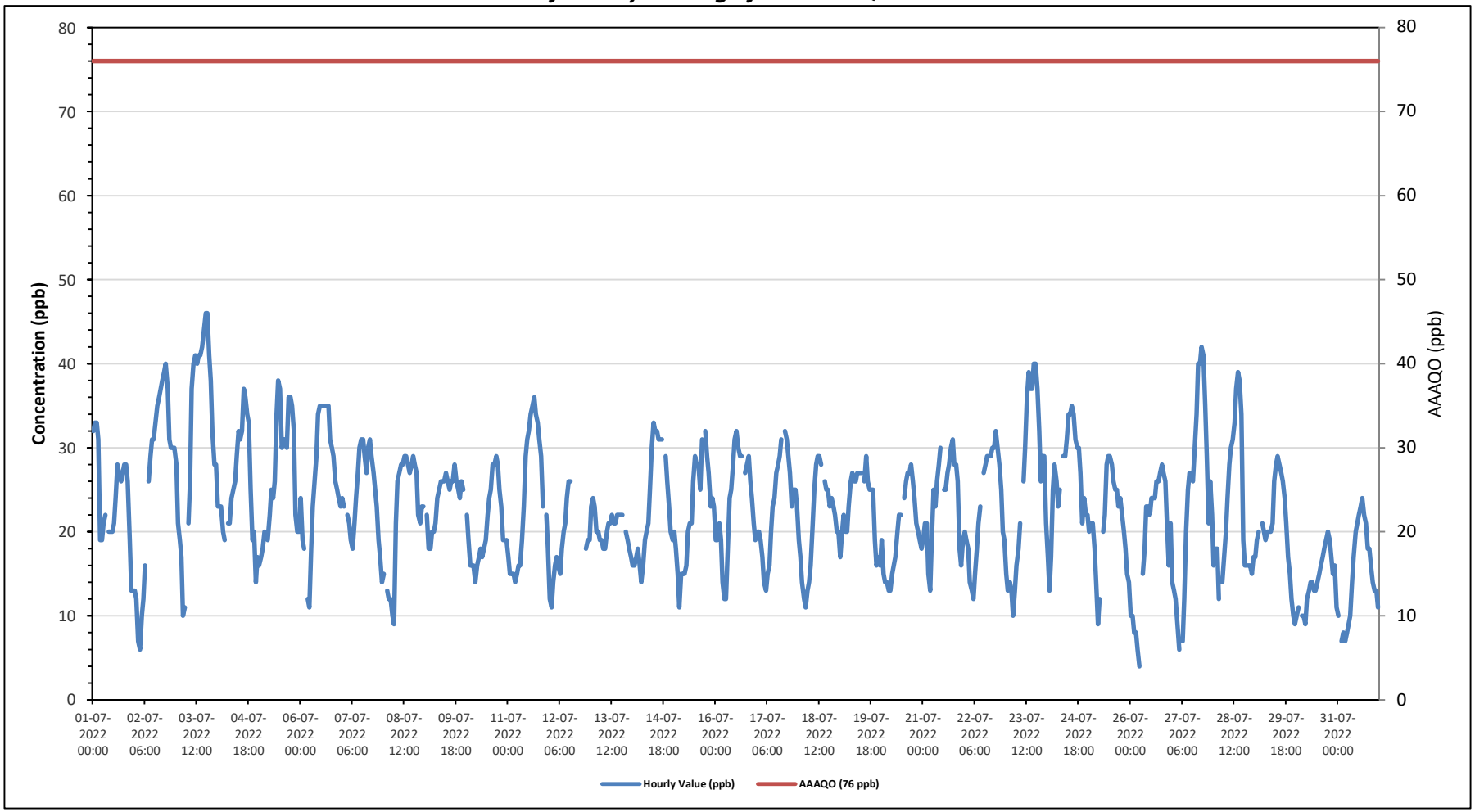
Number of 1-Hour Exceedances: 0

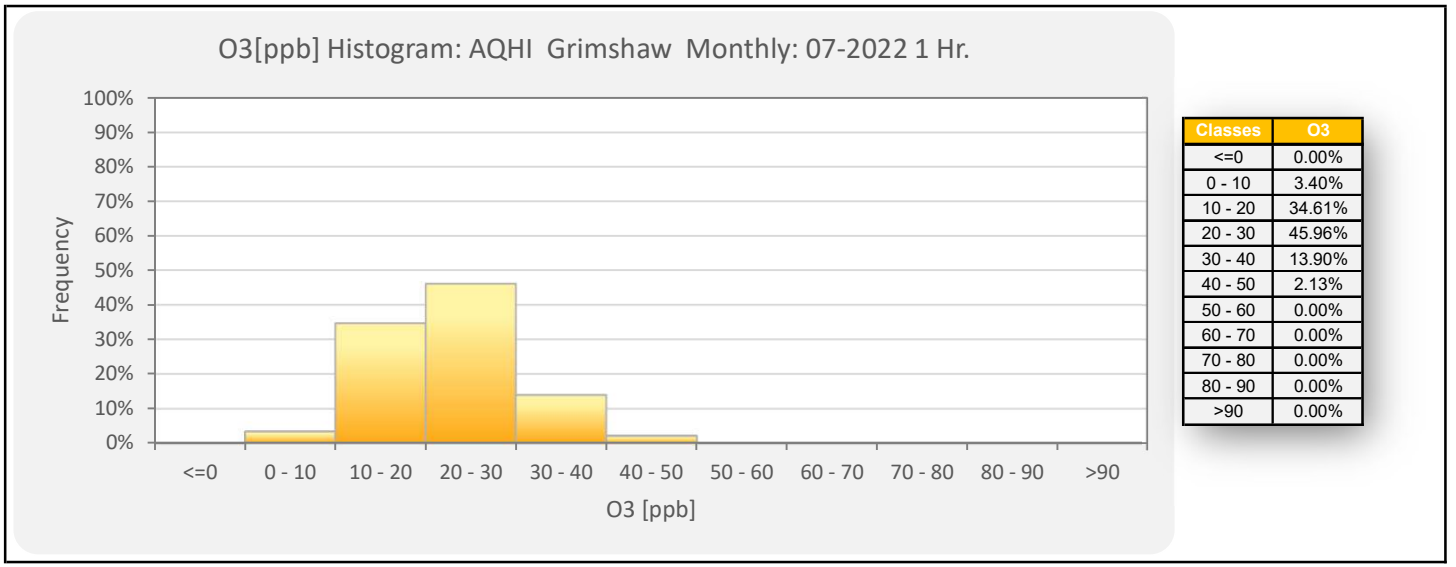
Maximum Hourly Value:	46	ppb	on July 3 at hour 17	Hours in Service:	744
Maximum Daily Value:	32.1	ppb	on July 3	Hours of Data:	705
Minimum Hourly Value:	4	ppb	on July 26 at hour 5	Hours of Missing Data:	1
Minimum Daily Value:	14.2	ppb	on July 30	Hours of Calibration:	38
Monthly Average:	22.9	ppb		Operational 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			
Jul 1	32	33	33	31	19	19	21	22	S	20	20	20	21	24	28	27	26	27	28	28	26	19	13	13	13.0	33.0	23.9
Jul 2	13	12	7	6	10	12	16	S	26	29	31	31	33	35	36	37	38	39	40	37	31	30	30	30	6.0	40.0	26.5
Jul 3	28	21	19	17	10	11	S	21	26	37	40	41	40	41	41	42	44	**46**	**46**	41	38	32	28	28	10.0	**46.0**	**32.1**
Jul 4	23	23	23	20	19	S	21	21	24	25	26	29	32	31	32	37	36	34	33	25	19	20	14	17	14.0	37.0	25.4
Jul 5	16	17	18	20	S	19	22	25	24	26	34	38	37	30	31	31	30	36	36	35	32	22	20	20	16.0	38.0	26.9
Jul 6	24	19	18	S	12	11	18	23	26	29	34	35	35	35	35	35	35	31	30	29	26	25	24	23	11.0	35.0	26.6
Jul 7	24	23	S	22	21	19	18	21	24	27	30	31	31	29	27	30	31	29	27	25	23	19	17	14	14.0	31.0	24.4
Jul 8	15	S	13	12	12	10	9	21	26	27	28	28	29	29	28	27	28	29	28	27	22	21	23	23	9.0	29.0	22.4
Jul 9	S	22	18	18	20	20	21	24	25	26	26	26	27	26	25	26	26	28	26	25	24	26	25	S	18.0	28.0	24.1
Jul 10	22	19	16	16	16	14	16	17	18	17	18	19	22	24	25	28	28	29	28	25	23	19	S	19	14.0	29.0	20.8
Jul 11	17	15	15	15	14	15	16	16	19	23	29	31	32	34	35	36	34	33	31	29	23	S	22	18	14.0	36.0	24.0
Jul 12	12	11	14	16	17	16	15	18	20	21	24	26	26	C	C	C	NRM	C	C	C	C	18	19	19	11.0	26.0	-
Jul 13	23	24	23	20	20	19	19	18	18	20	21	21	22	21	21	22	22	22	22	S	20	19	18	17	17.0	24.0	20.5
Jul 14	16	16	17	18	16	14	16	19	20	21	25	30	33	32	32	31	31	31	S	29	26	23	20	19	14.0	33.0	23.3
Jul 15	20	18	15	11	15	15	15	16	20	21	21	26	29	28	28	25	31	S	32	29	27	23	24	23	11.0	32.0	22.3
Jul 16	19	19	21	19	14	12	12	18	24	25	28	31	32	30	29	29	S	27	28	29	26	24	21	19	12.0	32.0	23.3
Jul 17	20	20	19	17	14	13	15	16	20	23	24	27	28	29	31	S	32	31	29	27	23	25	25	23	13.0	32.0	23.1
Jul 18	19	17	14	12	11	13	14	16	21	25	28	29	29	28	S	26	25	25	23	24	23	22	20	20	11.0	29.0	21.0
Jul 19	17	20	22	20	20	23	26	27	26	26	27	27	27	S	26	29	26	25	25	25	19	16	17	16	16.0	29.0	23.1
Jul 20	19	15	14	14	13	13	15	16	17	20	22	22	S	24	26	27	27	28	26	24	21	20	19	18	13.0	28.0	20.0
Jul 21	19	21	21	15	13	19	25	23	26	28	30	S	25	25	27	28	30	31	28	28	26	18	16	19	13.0	31.0	23.5
Jul 22	20	19	18	14	13	12	15	18	21	23	S	27	28	29	29	29	30	30	32	30	28	25	20	19	12.0	32.0	23.0
Jul 23	15	13	14	13	10	13	16	18	21	S	26	30	36	39	37	37	40	40	37	32	26	29	29	21	10.0	40.0	25.7
Jul 24	17	13	17	25	28	26	23	25	S	29	29	31	34	34	35	34	31	30	30	27	21	24	22	22	13.0	35.0	26.4
Jul 25	20	21	21	18	14	9	12	S	20	22	28	29	29	28	26	25	25	23	24	22	20	18	15	14	9.0	29.0	21.0
Jul 26	10	10	8	8	6	4	S	15	18	23	23	22	24	24	24	26	26	27	28	27	26	21	16	21	4.0	28.0	19.0
Jul 27	14	13	12	9	6	S	7	12	20	25	27	27	26	30	34	40	40	42	41	35	29	21	26	22	6.0	42.0	24.3
Jul 28	16	18	18	12	S	14	17	20	24	28	30	31	33	37	39	38	34	19	16	16	16	16	15	17	12.0	39.0	22.8
Jul 29	17	19	20	S	21	20	19	20	20	20	21	26	28	29	28	27	26	24	21	17	15	12	10	9	9.0	29.0	20.4
Jul 30	10	11	S	10	10	9	12	13	14	14	13	13	14	15	16	17	18	19	20	19	17	15	16	11	9.0	20.0	14.2
Jul 31	10	S	7	8	7	8	9	10	14	17	20	21	22	23	24	22	21	18	18	16	14	13	13	11	7.0	24.0	15.0
Diurnal Maximum	32	33	33	31	28	26	26	27	26	37	40	41	40	41	41	42	44	46	46	41	38	32	30	30			
Diurnal Average	18.2	18.0	17.1	15.7	14.5	14.6	16.6	18.9	21.4	23.9	26.1	27.5	28.8	29.1	29.5	29.9	30.0	29.4	28.7	27.0	23.7	21.2	19.9	18.8			

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.

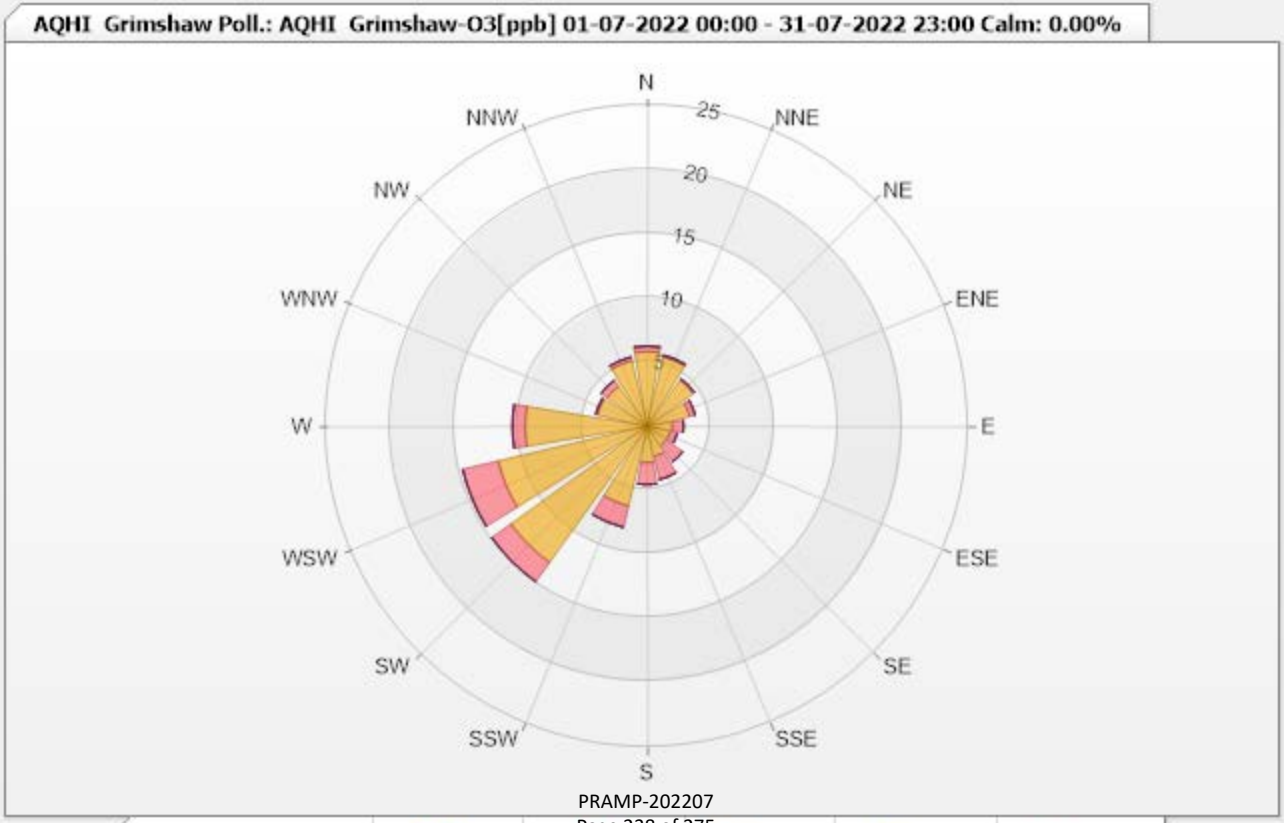

Timeseries Chart of Hourly Average for O3 - AQHI - Grimshaw Station
Concentration (ppb)
AAAQO (ppb)
0
10
20
30
40
50
60
70
80
01-07-2022 00:00
02-07-2022 06:00
03-07-2022 12:00
04-07-2022 18:00
06-07-2022 00:00
07-07-2022 06:00
08-07-2022 12:00
09-07-2022 18:00
11-07-2022 00:00
12-07-2022 06:00
13-07-2022 12:00
14-07-2022 18:00
16-07-2022 00:00
17-07-2022 06:00
18-07-2022 12:00
19-07-2022 18:00
21-07-2022 00:00
22-07-2022 06:00
23-07-2022 12:00
24-07-2022 18:00
26-07-2022 00:00
27-07-2022 06:00
28-07-2022 12:00
29-07-2022 18:00
31-07-2022 00:00
Hourly Value (ppb)
AAAQO (76 ppb)



Classes	O3
<=0	0.00%
0 - 10	3.40%
10 - 20	34.61%
20 - 30	45.96%
30 - 40	13.90%
40 - 50	2.13%
50 - 60	0.00%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.76% Calm Avg: 0.00 [ppb]

Direction	0-30	30-50	50-76	76-159	>159.0	Total
N	5.82	0.43	0	0	0	6.25
NNE	5.53	0.14	0	0	0	5.67
NE	4.4	0.14	0	0	0	4.54
ENE	3.4	0.43	0	0	0	3.83
E	1.99	0.85	0	0	0	2.84
ESE	1.84	0.57	0	0	0	2.41
SE	1.84	1.56	0	0	0	3.4
SSE	2.41	1.84	0	0	0	4.25
S	2.84	1.7	0	0	0	4.54
SSW	6.38	1.7	0	0	0	8.08
SW	13.05	1.84	0	0	0	14.89
WSW	11.91	2.84	0	0	0	14.75
W	9.5	0.99	0	0	0	10.49
WNW	3.97	0.14	0	0	0	4.11
NW	3.83	0.57	0	0	0	4.4
NNW	5.25	0.28	0	0	0	5.53
Summary	83.96	16.02	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-O3[ppb] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
% Icon Classes (ppb)
84 0-30
16 30-50
0 50-76
0 76-159
0 >159.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - July 2022

Summary of Hourly Averages

TOTAL HYDROCARBONS (THC) in ppm

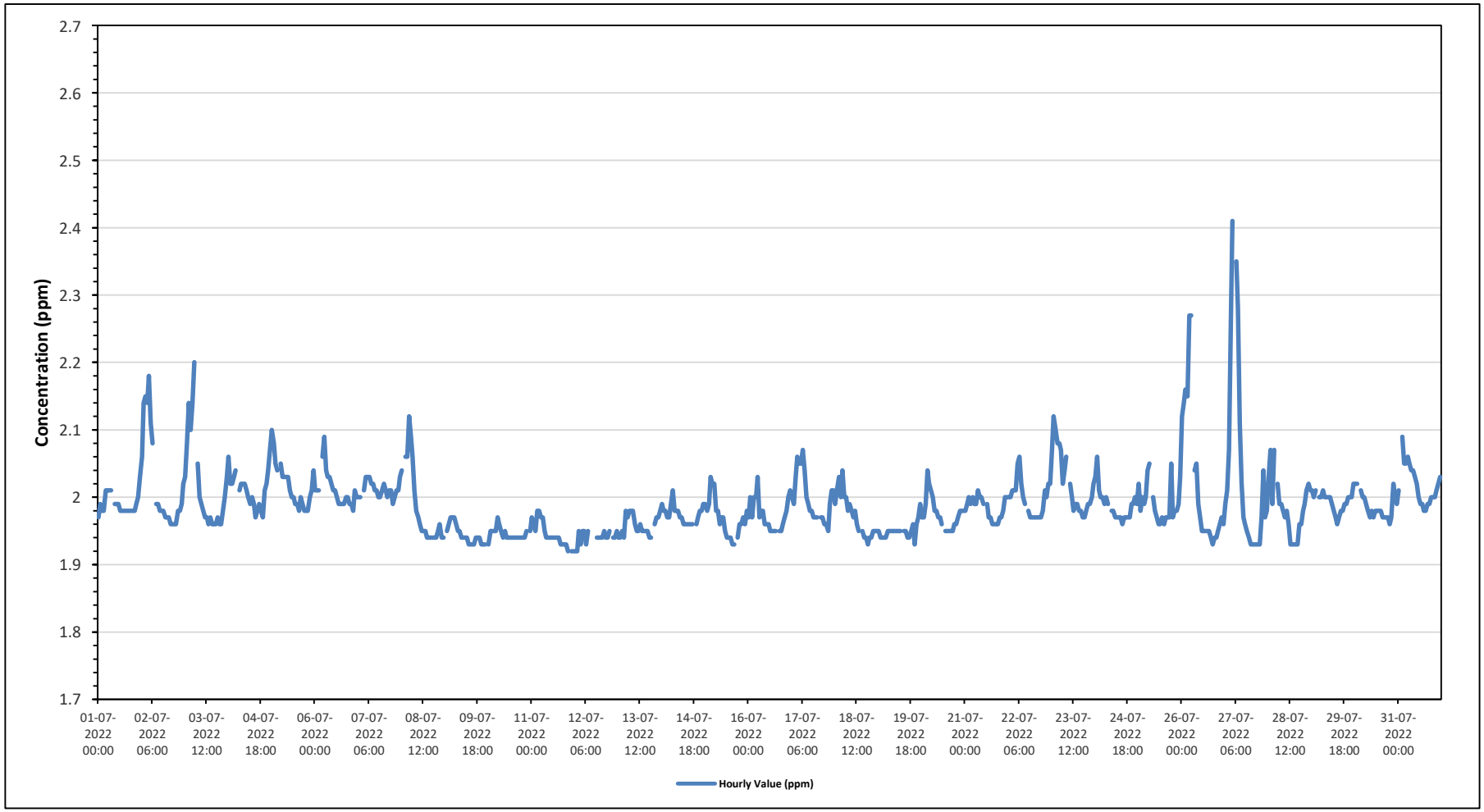
Maximum Hourly Value:	2.41	ppm	on July 27 at hour 4	Hours in Service:	744
Maximum Daily Value:	2.04	ppm	on July 27	Hours of Data:	708
Minimum Hourly Value:	1.92	ppm	on July 11 at hour 20	Hours of Missing Data:	0
Minimum Daily Value:	1.94	ppm	on July 12	Hours of Calibration:	36
Monthly Average:	1.99	ppm		Operational Uptime:	100.0

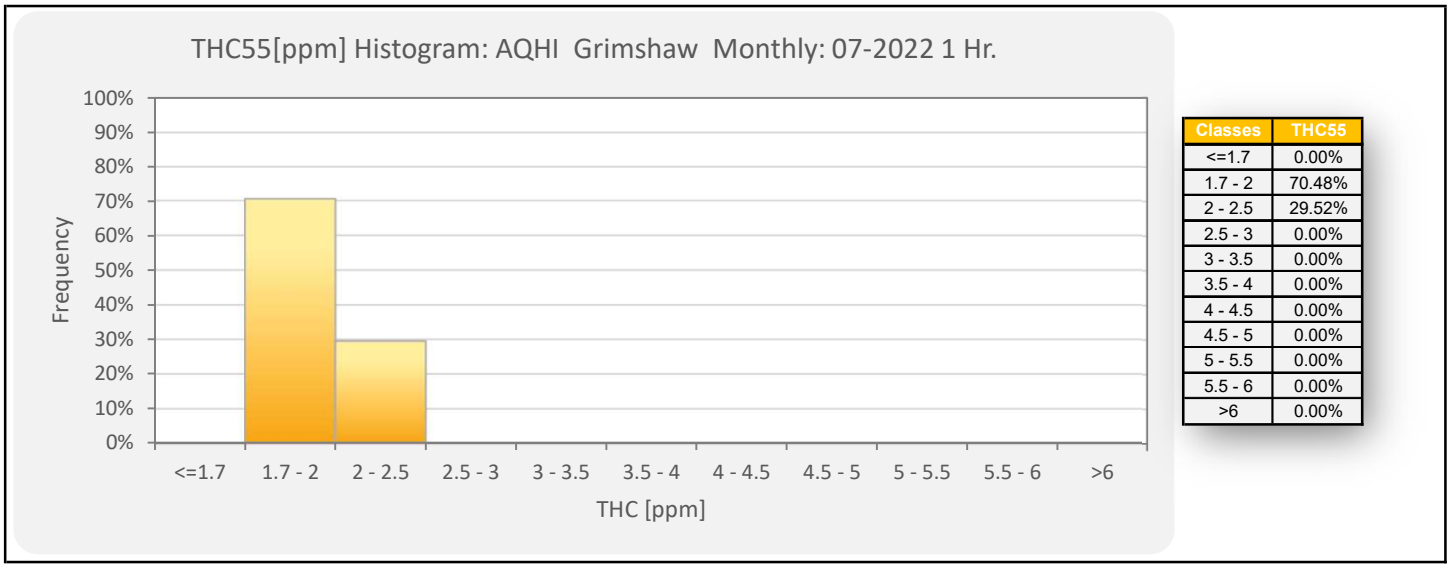
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	1.97	1.99	1.98	1.98	2.01	2.01	2.01	2.01	S	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.03	1.97	2.03	1.99
Jul 2	2.06	2.14	2.15	2.14	2.18	2.11	2.08	S	1.99	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.98	1.98	1.99	2.02	1.96	2.18	2.02
Jul 3	2.03	2.08	2.14	2.10	2.14	2.20	S	2.05	2.00	1.99	1.98	1.97	1.97	1.96	1.97	1.96	1.96	1.96	1.97	1.96	1.96	1.98	2.00	2.03	1.96	2.20	2.02
Jul 4	2.06	2.02	2.02	2.03	2.04	S	2.01	2.02	2.02	2.02	2.01	2.00	1.99	2.00	1.99	1.97	1.98	1.99	1.98	1.97	2.01	2.02	2.04	2.07	1.97	2.07	2.01
Jul 5	2.10	2.08	2.05	2.04	S	2.05	2.03	2.03	2.03	2.03	2.01	2.00	2.00	1.99	1.99	1.98	2.00	1.99	1.98	1.98	1.98	2.00	2.01	2.04	1.98	2.10	2.02
Jul 6	2.01	2.01	2.01	S	2.06	2.09	2.04	2.03	2.03	2.02	2.01	2.01	2.00	1.99	1.99	1.99	1.99	2.00	2.00	1.99	1.99	1.98	2.01	2.00	1.98	2.09	2.01
Jul 7	2.00	2.00	S	2.01	2.03	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.00	2.01	2.02	2.01	2.00	2.01	2.01	1.99	2.00	2.01	2.01	2.03	1.99	2.03	2.01
Jul 8	2.04	S	2.06	2.06	2.12	2.09	2.06	2.01	1.98	1.97	1.96	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.94	1.94	1.94	2.12	1.98
Jul 9	S	1.95	1.96	1.97	1.97	1.97	1.96	1.95	1.95	1.94	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.94	1.94	1.94	1.93	1.93	1.93	S	1.93	1.97	1.94
Jul 10	1.93	1.95	1.95	1.95	1.95	1.97	1.96	1.95	1.94	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	S	1.95	1.93	1.97	1.95
Jul 11	1.97	1.96	1.95	1.98	1.98	1.97	1.97	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.92	S	1.92	1.92	**1.92**	1.98	1.94
Jul 12	1.92	1.92	1.95	1.93	1.95	1.95	1.93	1.95	C	C	C	C	1.94	1.94	1.94	1.94	1.95	1.94	1.94	1.95	S	1.94	1.94	1.95	**1.92**	1.95	1.94
Jul 13	1.94	1.94	1.95	1.94	1.98	1.97	1.98	1.98	1.98	1.96	1.95	1.95	1.96	1.95	1.95	1.95	1.95	1.94	1.94	S	1.96	1.97	1.97	1.98	1.94	1.98	1.96
Jul 14	1.99	1.98	1.98	1.97	1.97	1.99	2.01	1.98	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	S	1.96	1.97	1.98	1.98	1.99	1.96	2.01	1.97
Jul 15	1.99	1.98	1.99	2.03	2.02	2.02	1.98	1.98	1.96	1.97	1.97	1.95	1.94	1.94	1.94	1.93	1.93	S	1.94	1.96	1.96	1.97	1.96	1.98	1.93	2.03	1.97
Jul 16	1.97	2.00	1.97	2.00	2.00	2.03	1.97	1.98	1.98	1.96	1.96	1.96	1.95	1.95	1.95	1.95	S	1.95	1.95	1.96	1.97	1.98	2.00	2.01	1.95	2.03	1.97
Jul 17	2.00	1.99	2.03	2.06	2.05	2.05	2.07	2.04	2.00	1.99	1.98	1.98	1.97	1.97	1.97	S	1.97	1.97	1.96	1.96	1.95	1.99	2.01	2.01	1.95	2.07	2.00
Jul 18	1.99	2.01	2.03	2.00	2.04	2.00	2.00	1.98	1.99	1.98	1.97	1.98	1.96	1.95	S	1.95	1.94	1.94	1.93	1.94	1.94	1.95	1.95	1.95	1.93	2.04	1.97
Jul 19	1.95	1.94	1.94	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	S	1.95	1.95	1.94	1.94	1.95	1.96	1.93	1.96	1.97	1.99	1.93	1.99	1.95
Jul 20	1.97	1.97	1.99	2.04	2.02	2.01	2.00	1.98	1.98	1.97	1.97	1.96	S	1.95	1.95	1.95	1.95	1.95	1.96	1.96	1.97	1.98	1.98	1.98	1.95	2.04	1.98
Jul 21	1.98	1.99	2.00	1.99	2.00	1.99	1.99	2.01	2.00	2.00	1.99	S	1.99	1.97	1.97	1.97	1.96	1.96	1.96	1.97	1.97	1.98	2.00	2.00	1.96	2.01	1.98
Jul 22	2.00	2.00	2.01	2.01	2.01	2.05	2.06	2.02	2.00	1.99	S	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	2.01	2.00	2.02	2.02	1.97	2.06	2.00
Jul 23	2.07	2.12	2.10	2.08	2.08	2.07	2.02	2.04	2.06	S	2.02	2.00	1.98	1.99	1.99	1.98	1.98	1.97	1.97	1.98	1.99	1.99	2.00	2.02	1.97	2.12	2.02
Jul 24	2.03	2.06	2.01	2.00	2.00	1.99	2.00	1.99	S	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97	1.99	1.99	2.00	1.99	1.96	2.06	1.99
Jul 25	2.02	1.98	2.00	1.99	2.00	2.04	2.05	S	2.00	1.98	1.97	1.96	1.96	1.97	1.96	1.97	1.97	1.97	2.05	1.97	1.98	1.98	1.99	2.03	1.96	2.05	1.99
Jul 26	2.12	2.14	2.16	2.15	2.27	2.27	S	2.04	2.05	1.99	1.97	1.95	1.95	1.95	1.95	1.95	1.94	1.93	1.94	1.94	1.95	1.96	1.97	1.96	1.93	2.27	2.02
Jul 27	1.99	2.01	2.07	2.26	**2.41**	S	2.35	2.28	2.11	2.02	1.97	1.96	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.97	2.04	1.97	1.98	1.93	**2.41**	**2.04**
Jul 28	2.03	2.07	1.99	2.07	S	2.02	1.99	1.99	1.98	1.97	1.98	1.96	1.93	1.93	1.93	1.93	1.93	1.96	1.96	1.98	1.99	2.01	2.02	2.01	1.93	2.07	1.98
Jul 29	2.01	2.00	2.01	S	2.00	2.00	2.01	2.00	2.00	2.00	2.00	1.99	1.98	1.97	1.96	1.97	1.98	1.98	1.99	1.99	2.00	2.00	2.00	2.02	1.96	2.02	1.99
Jul 30	2.02	2.02	S	2.01	2.00	2.00	1.99	1.98	1.97	1.98	1.97	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.97	2.02	2.00	1.99	1.96	2.02	1.99
Jul 31	2.01	S	2.09	2.05	2.05	2.06	2.05	2.04	2.04	2.03	2.02	2.00	1.99	1.99	1.98	1.98	1.99	1.99	2.00	2.00	2.00	2.01	2.02	2.03	1.98	2.09	2.02
Diurnal Maximum	2.12	2.14	2.16	2.26	2.41	2.27	2.35	2.28	2.11	2.03	2.02	2.01	2.00	2.01	2.02	2.01	2.00	2.01	2.05	2.00	2.01	2.04	2.04	2.07			
Diurnal Average	2.01	2.01	2.02	2.03	2.04	2.03	2.02	2.01	2.00	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.98	1.99	2.00			

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

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

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

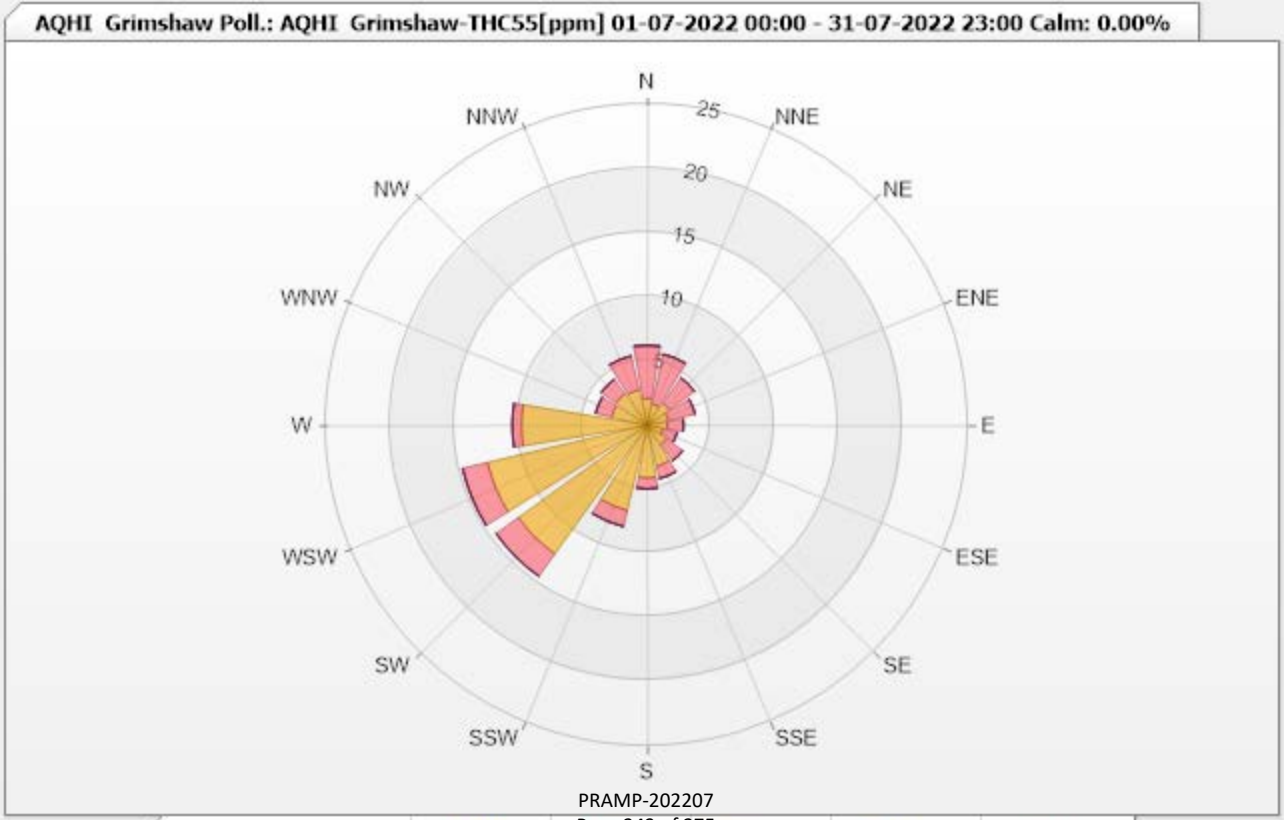




Classes	THC55
<=1.7	0.00%
1.7 - 2	70.48%
2 - 2.5	29.52%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.76% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-40	>40.0	Total
N	2.13	4.11	0	0	0	6.24
NNE	1.7	3.97	0	0	0	5.67
NE	2.13	2.41	0	0	0	4.54
ENE	1.7	2.13	0	0	0	3.83
E	1.56	1.28	0	0	0	2.84
ESE	1.28	1.13	0	0	0	2.41
SE	1.84	1.56	0	0	0	3.4
SSE	3.26	0.99	0	0	0	4.25
S	4.11	0.85	0	0	0	4.96
SSW	6.81	1.28	0	0	0	8.09
SW	12.34	2.13	0	0	0	14.47
WSW	12.77	1.99	0	0	0	14.76
W	9.79	0.71	0	0	0	10.5
WNW	2.84	1.28	0	0	0	4.12
NW	2.98	1.42	0	0	0	4.4
NNW	2.84	2.7	0	0	0	5.54
Summary	70.08	29.94	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-THC55[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
% 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

AQHI - Grimshaw Station - July 2022

Summary of Hourly Averages

METHANE (CH4) in ppm

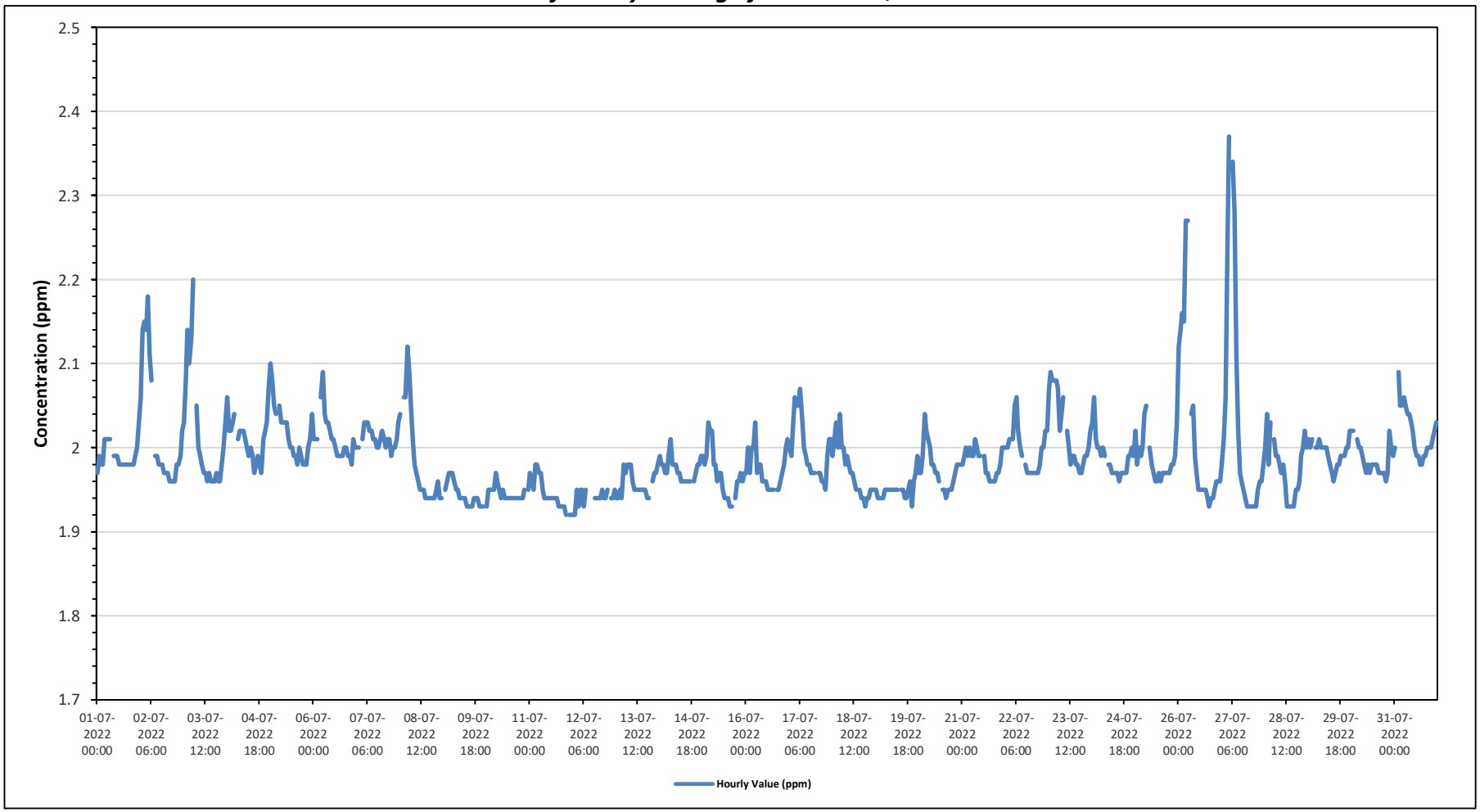
Maximum Hourly Value:	2.37	ppm	on July 27 at hour 4	Hours in Service:	744
Maximum Daily Value:	2.03	ppm	on July 27	Hours of Data:	708
Minimum Hourly Value:	1.92	ppm	on July 11 at hour 20	Hours of Missing Data:	0
Minimum Daily Value:	1.94	ppm	on July 12	Hours of Calibration:	36
Monthly Average:	1.99	ppm		Operational Uptime:	100.0

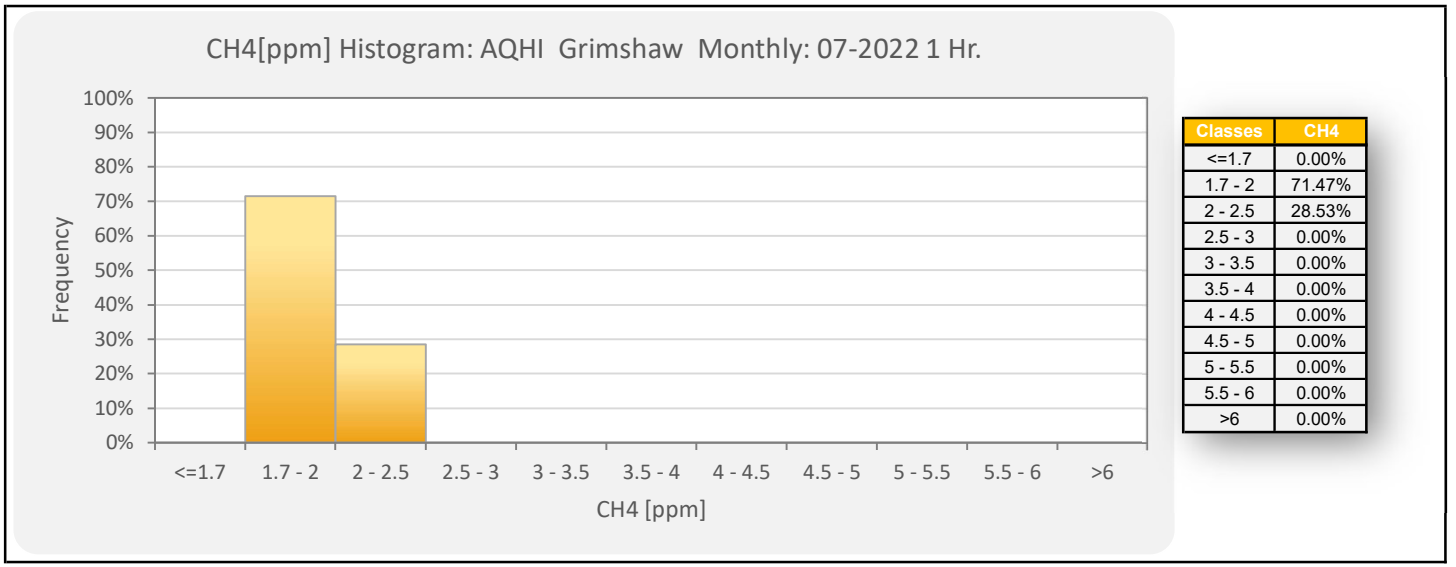
Day	Hourly Period Starting at (MST)																								Daily	Daily	Daily
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Minimum	Maximum	Average
Jul 1	1.97	1.99	1.98	1.98	2.01	2.01	2.01	2.01	S	1.99	1.99	1.99	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.99	2.00	2.03	1.97	2.03	1.99
Jul 2	2.06	2.14	2.15	2.14	2.18	2.11	2.08	S	1.99	1.99	1.98	1.98	1.98	1.97	1.97	1.97	1.96	1.96	1.96	1.96	1.98	1.98	1.99	2.02	1.96	2.18	2.02
Jul 3	2.03	2.08	2.14	2.10	2.13	2.20	S	2.05	2.00	1.99	1.98	1.97	1.97	1.96	1.97	1.96	1.96	1.96	1.97	1.96	1.96	1.98	2.00	2.03	1.96	2.20	2.02
Jul 4	2.06	2.02	2.02	2.03	2.04	S	2.01	2.02	2.02	2.02	2.01	2.00	1.99	2.00	1.99	1.97	1.98	1.99	1.98	1.97	2.01	2.02	2.03	2.07	1.97	2.07	2.01
Jul 5	2.10	2.08	2.05	2.04	S	2.05	2.03	2.03	2.03	2.03	2.01	2.00	2.00	1.99	1.99	1.98	2.00	1.99	1.98	1.98	1.98	2.00	2.01	2.04	1.98	2.10	2.02
Jul 6	2.01	2.01	2.01	S	2.06	2.09	2.04	2.03	2.03	2.02	2.01	2.01	2.00	1.99	1.99	1.99	1.99	2.00	2.00	1.99	1.99	1.98	2.01	2.00	1.98	2.09	2.01
Jul 7	2.00	2.00	S	2.01	2.03	2.03	2.03	2.02	2.02	2.01	2.01	2.00	2.00	2.01	2.02	2.01	2.00	2.01	2.01	1.99	2.00	2.00	2.01	2.03	1.99	2.03	2.01
Jul 8	2.04	S	2.06	2.06	2.12	2.09	2.05	2.01	1.98	1.97	1.96	1.95	1.95	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.95	1.96	1.94	1.94	1.94	2.12	1.98
Jul 9	S	1.95	1.96	1.97	1.97	1.97	1.96	1.95	1.95	1.94	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.94	1.94	1.94	1.93	1.93	1.93	S	1.93	1.97	1.94
Jul 10	1.93	1.95	1.95	1.95	1.95	1.97	1.96	1.95	1.94	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.95	S	1.95	1.93	1.97	1.95
Jul 11	1.97	1.96	1.95	1.98	1.98	1.97	1.97	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.93	1.93	1.93	1.92	S	1.92	1.92	**1.92**	1.98	1.94
Jul 12	1.92	1.92	1.95	1.93	1.95	1.95	1.93	1.95	C	C	C	C	1.94	1.94	1.94	1.94	1.95	1.94	1.94	1.95	S	1.94	1.94	1.95	**1.92**	1.95	1.94
Jul 13	1.94	1.94	1.95	1.94	1.98	1.97	1.98	1.98	1.98	1.96	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.94	1.94	S	1.96	1.97	1.97	1.98	1.94	1.98	1.96
Jul 14	1.99	1.98	1.98	1.97	1.97	1.99	2.01	1.98	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	S	1.96	1.97	1.98	1.98	1.99	1.96	2.01	1.97
Jul 15	1.99	1.98	1.99	2.03	2.02	2.02	1.98	1.98	1.96	1.97	1.97	1.95	1.94	1.94	1.94	1.93	1.93	S	1.94	1.96	1.96	1.97	1.96	1.97	1.93	2.03	1.97
Jul 16	1.97	2.00	1.97	2.00	2.00	2.03	1.97	1.98	1.98	1.96	1.96	1.96	1.95	1.95	1.95	1.95	S	1.95	1.95	1.96	1.97	1.98	2.00	2.01	1.95	2.03	1.97
Jul 17	2.00	1.99	2.03	2.06	2.05	2.05	2.07	2.04	2.00	1.99	1.98	1.98	1.97	1.97	1.97	S	1.97	1.97	1.96	1.96	1.95	1.99	2.01	2.01	1.95	2.07	2.00
Jul 18	1.99	2.01	2.03	2.00	2.04	2.00	2.00	1.98	1.99	1.98	1.97	1.97	1.96	1.95	S	1.95	1.94	1.94	1.93	1.94	1.94	1.95	1.95	1.95	1.93	2.04	1.97
Jul 19	1.95	1.94	1.94	1.94	1.94	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	S	1.95	1.95	1.94	1.94	1.95	1.96	1.93	1.96	1.97	1.99	1.93	1.99	1.95
Jul 20	1.97	1.97	1.99	2.04	2.02	2.01	2.00	1.98	1.98	1.97	1.97	1.96	S	1.95	1.95	1.94	1.95	1.95	1.95	1.96	1.97	1.98	1.98	1.98	1.94	2.04	1.97
Jul 21	1.98	1.99	2.00	1.99	2.00	1.99	1.99	2.01	2.00	1.99	1.99	S	1.99	1.97	1.97	1.97	1.96	1.96	1.96	1.97	1.97	1.98	2.00	2.00	1.96	2.01	1.98
Jul 22	2.00	2.00	2.01	2.01	2.01	2.05	2.06	2.02	2.00	1.99	S	1.98	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.98	2.00	2.00	2.02	2.02	1.97	2.06	2.00
Jul 23	2.07	2.09	2.08	2.08	2.08	2.07	2.02	2.04	2.06	S	2.02	2.00	1.98	1.99	1.99	1.98	1.98	1.97	1.97	1.98	1.99	1.99	2.00	2.02	1.97	2.09	2.02
Jul 24	2.03	2.06	2.01	2.00	2.00	1.99	2.00	1.99	S	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.97	1.97	1.97	1.97	1.99	1.99	2.00	1.99	1.96	2.06	1.99
Jul 25	2.02	1.98	2.00	1.99	2.00	2.04	2.05	S	2.00	1.98	1.97	1.96	1.96	1.97	1.96	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.99	2.03	1.96	2.05	1.99
Jul 26	2.12	2.14	2.16	2.15	2.27	2.27	S	2.04	2.05	1.99	1.97	1.95	1.95	1.95	1.95	1.95	1.94	1.93	1.94	1.94	1.95	1.96	1.96	1.96	1.93	2.27	2.02
Jul 27	1.98	2.01	2.06	2.24	**2.37**	S	2.34	2.28	2.11	2.02	1.97	1.96	1.95	1.94	1.93	1.93	1.93	1.93	1.93	1.93	1.95	1.96	1.96	1.98	1.93	**2.37**	**2.03**
Jul 28	2.00	2.04	1.98	2.03	S	2.01	1.99	1.99	1.98	1.97	1.98	1.96	1.93	1.93	1.93	1.93	1.93	1.95	1.95	1.96	1.99	2.00	2.02	2.00	1.93	2.04	1.98
Jul 29	2.01	2.00	2.01	S	2.00	2.00	2.01	2.00	2.00	2.00	2.00	1.99	1.98	1.97	1.96	1.97	1.98	1.98	1.99	1.99	1.99	2.00	2.00	2.02	1.96	2.02	1.99
Jul 30	2.02	2.02	S	2.01	2.00	2.00	1.99	1.98	1.97	1.98	1.97	1.98	1.98	1.98	1.98	1.97	1.97	1.97	1.97	1.96	1.97	2.02	2.00	1.99	1.96	2.02	1.99
Jul 31	2.00	S	2.09	2.05	2.05	2.06	2.05	2.04	2.04	2.03	2.02	2.00	1.99	1.99	1.98	1.98	1.99	1.99	2.00	2.00	2.00	2.01	2.02	2.03	1.98	2.09	2.02
Diurnal Maximum	2.12	2.14	2.16	2.24	2.37	2.27	2.34	2.28	2.11	2.03	2.02	2.01	2.00	2.01	2.02	2.01	2.00	2.01	2.01	2.00	2.01	2.02	2.03	2.07			
Diurnal Average	2.00	2.01	2.02	2.02	2.04	2.03	2.02	2.01	2.00	1.98	1.98	1.97	1.97	1.96	1.96	1.96	1.96	1.96	1.96	1.96	1.97	1.98	1.99	2.00			

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

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

Timeseries Chart of Hourly Average for CH4 - AQHI - Grimshaw Station

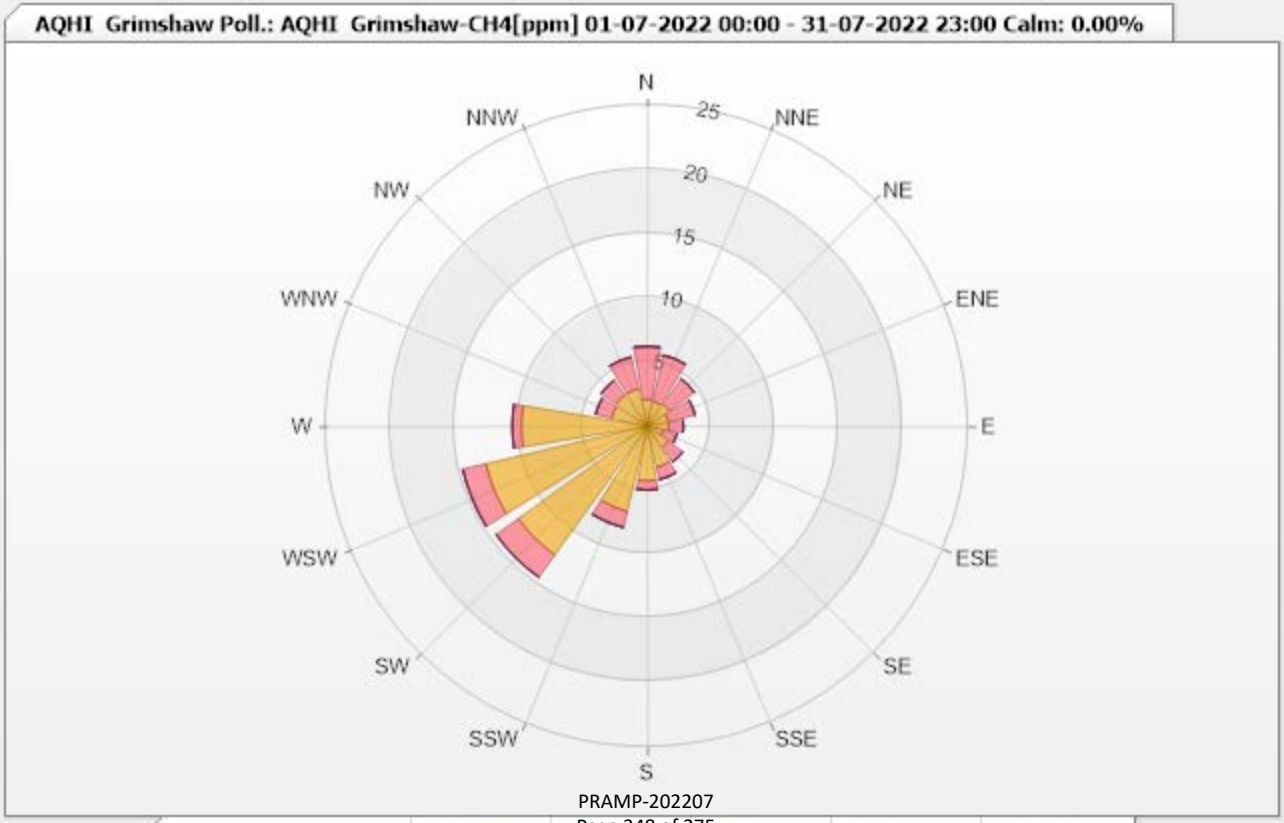




Classes	CH4
<=1.7	0.00%
1.7 - 2	71.47%
2 - 2.5	28.53%
2.5 - 3	0.00%
3 - 3.5	0.00%
3.5 - 4	0.00%
4 - 4.5	0.00%
4.5 - 5	0.00%
5 - 5.5	0.00%
5.5 - 6	0.00%
>6	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.76% Calm Avg: 0.00 [ppm]

Direction	0-2	2-5	5-10	10-20	>20.0	Total
N	2.13	4.11	0	0	0	6.24
NNE	1.99	3.69	0	0	0	5.68
NE	2.13	2.41	0	0	0	4.54
ENE	1.7	2.13	0	0	0	3.83
E	1.7	1.13	0	0	0	2.83
ESE	1.28	1.13	0	0	0	2.41
SE	1.99	1.42	0	0	0	3.41
SSE	3.26	0.99	0	0	0	4.25
S	4.26	0.71	0	0	0	4.97
SSW	6.81	1.28	0	0	0	8.09
SW	12.34	2.13	0	0	0	14.47
WSW	12.91	1.84	0	0	0	14.75
W	9.79	0.71	0	0	0	10.5
WNW	2.84	1.28	0	0	0	4.12
NW	2.98	1.42	0	0	0	4.4
NNW	2.98	2.55	0	0	0	5.53
Summary	71.09	28.93	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-CH4[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
% Icon Classes (ppm)
71 0-2
29 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 - July 2022

Summary of Hourly Averages

NON-METHANE HYDROCARBONS (NMHC) in ppm

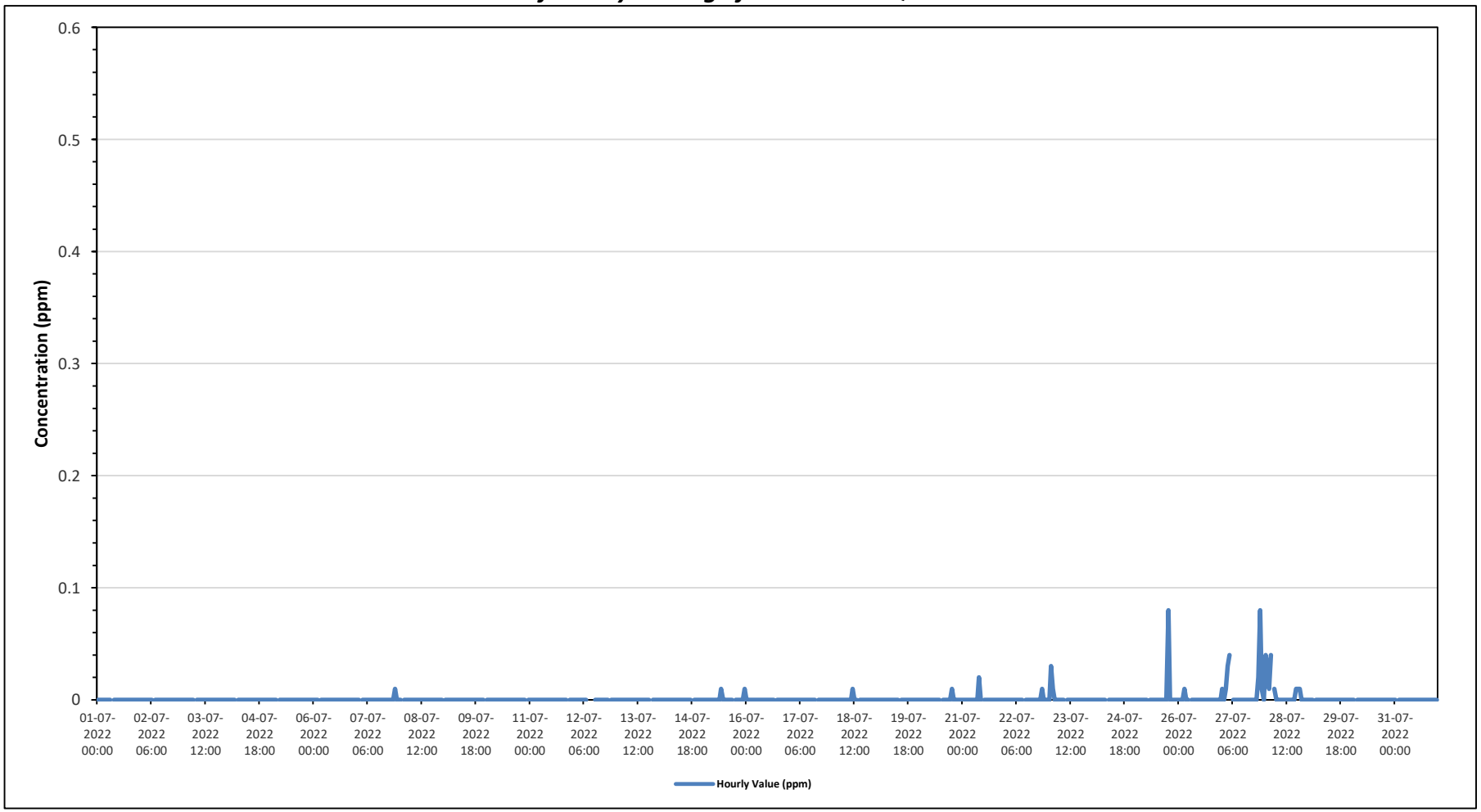
Maximum Hourly Value:	0.08	ppm	on July 25 at hour 18	Hours in Service:	744
Maximum Daily Value:	0.01	ppm	on July 27	Hours of Data:	708
Minimum Hourly Value:	0.00	ppm	on July 1 at hour 0	Hours of Missing Data:	0
Minimum Daily Value:	0.00	ppm	on July 1	Hours of Calibration:	36
Monthly Average:	0.00	ppm		Operational Uptime:	100.0

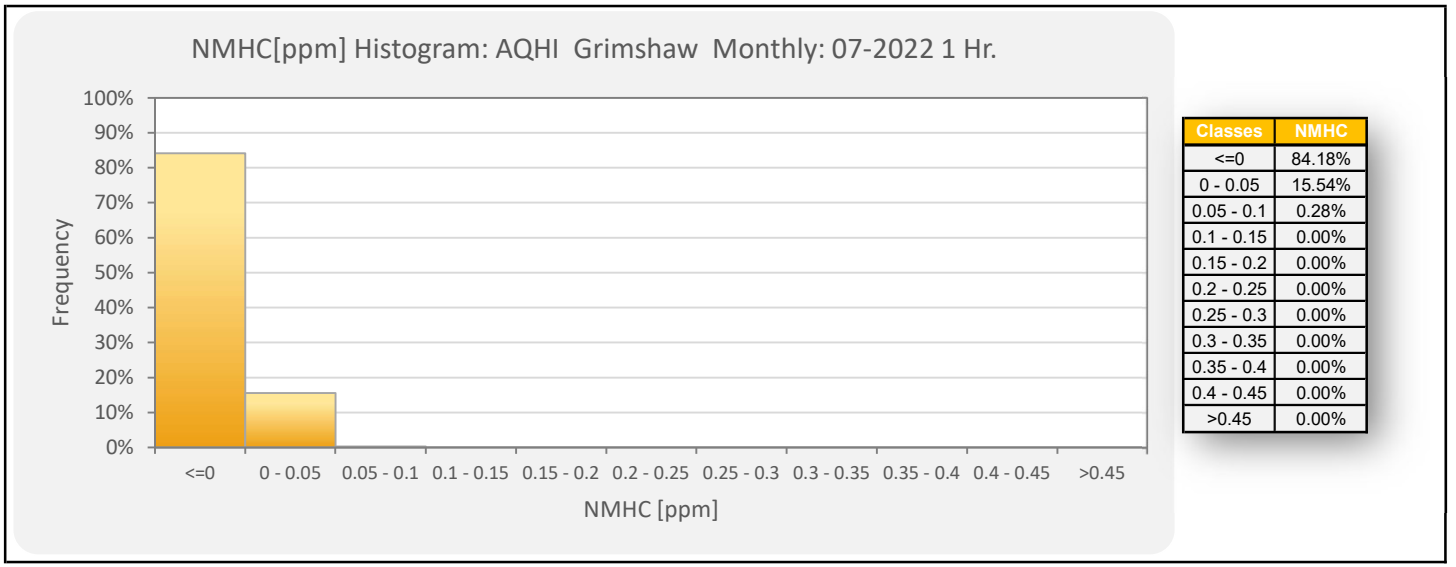
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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
Jul 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	0.01	0.00	0.00	0.00	0.01	0.00
Jul 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
Jul 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
Jul 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
Jul 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
Jul 12	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	S	0.00	0.00	0.00	0.00	0.00	0.00
Jul 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
Jul 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
Jul 15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00
Jul 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
Jul 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
Jul 18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Jul 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
Jul 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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Jul 21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	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	0.02	0.00
Jul 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	0.01	0.00	0.00	0.00	0.00	0.01	0.00
Jul 23	0.00	0.03	0.01	0.00	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	0.03	0.00
Jul 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
Jul 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	**0.08**	0.00	0.00	0.00	0.00	0.00	0.00	**0.08**	0.00
Jul 26	0.00	0.00	0.00	0.01	0.00	0.00	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Jul 27	0.01	0.00	0.01	0.03	0.04	S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	**0.08**	0.01	0.00	0.00	**0.08**	**0.01**
Jul 28	0.04	0.03	0.01	0.04	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	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.01
Jul 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
Jul 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
Jul 31	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
Diurnal Maximum	0.04	0.03	0.01	0.04	0.04	0.01	0.00	0.00	0.00	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.01	0.02	0.08	0.01	0.01			
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 - AQHI - Grimshaw Station

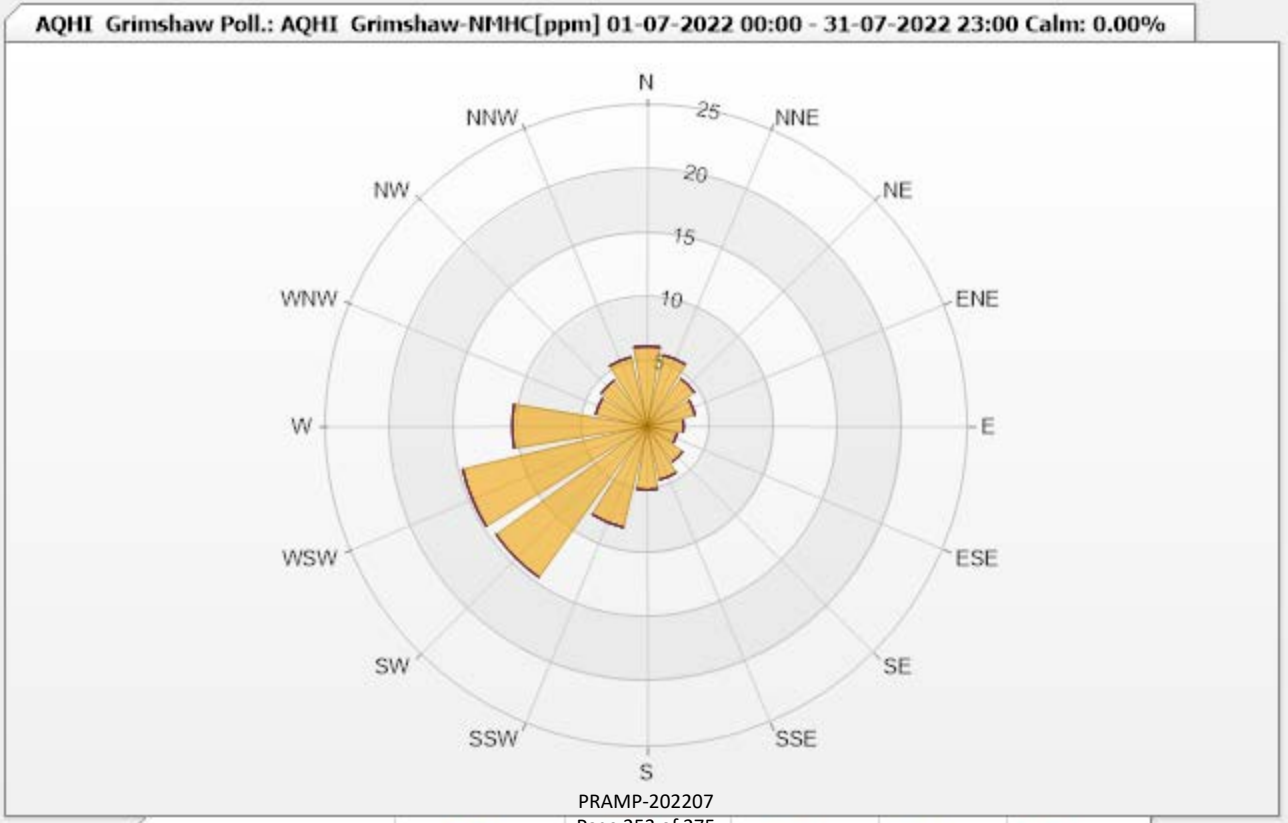




Classes	NMHC
<=0	84.18%
0 - 0.05	15.54%
0.05 - 0.1	0.28%
0.1 - 0.15	0.00%
0.15 - 0.2	0.00%
0.2 - 0.25	0.00%
0.25 - 0.3	0.00%
0.3 - 0.35	0.00%
0.35 - 0.4	0.00%
0.4 - 0.45	0.00%
>0.45	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 94.76% Calm Avg: 0.00 [ppm]

Direction	0-0.1	0.1-0.3	0.3-1	1-2	>2.0	Total
N	6.24	0	0	0	0	6.24
NNE	5.67	0	0	0	0	5.67
NE	4.54	0	0	0	0	4.54
ENE	3.83	0	0	0	0	3.83
E	2.84	0	0	0	0	2.84
ESE	2.41	0	0	0	0	2.41
SE	3.4	0	0	0	0	3.4
SSE	4.26	0	0	0	0	4.26
S	4.96	0	0	0	0	4.96
SSW	8.09	0	0	0	0	8.09
SW	14.47	0	0	0	0	14.47
WSW	14.75	0	0	0	0	14.75
W	10.5	0	0	0	0	10.5
WNW	4.11	0	0	0	0	4.11
NW	4.4	0	0	0	0	4.4
NNW	5.53	0	0	0	0	5.53
Summary	100	0	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-NMHC[ppm] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
% 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

AQHI - Grimshaw Station - July 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

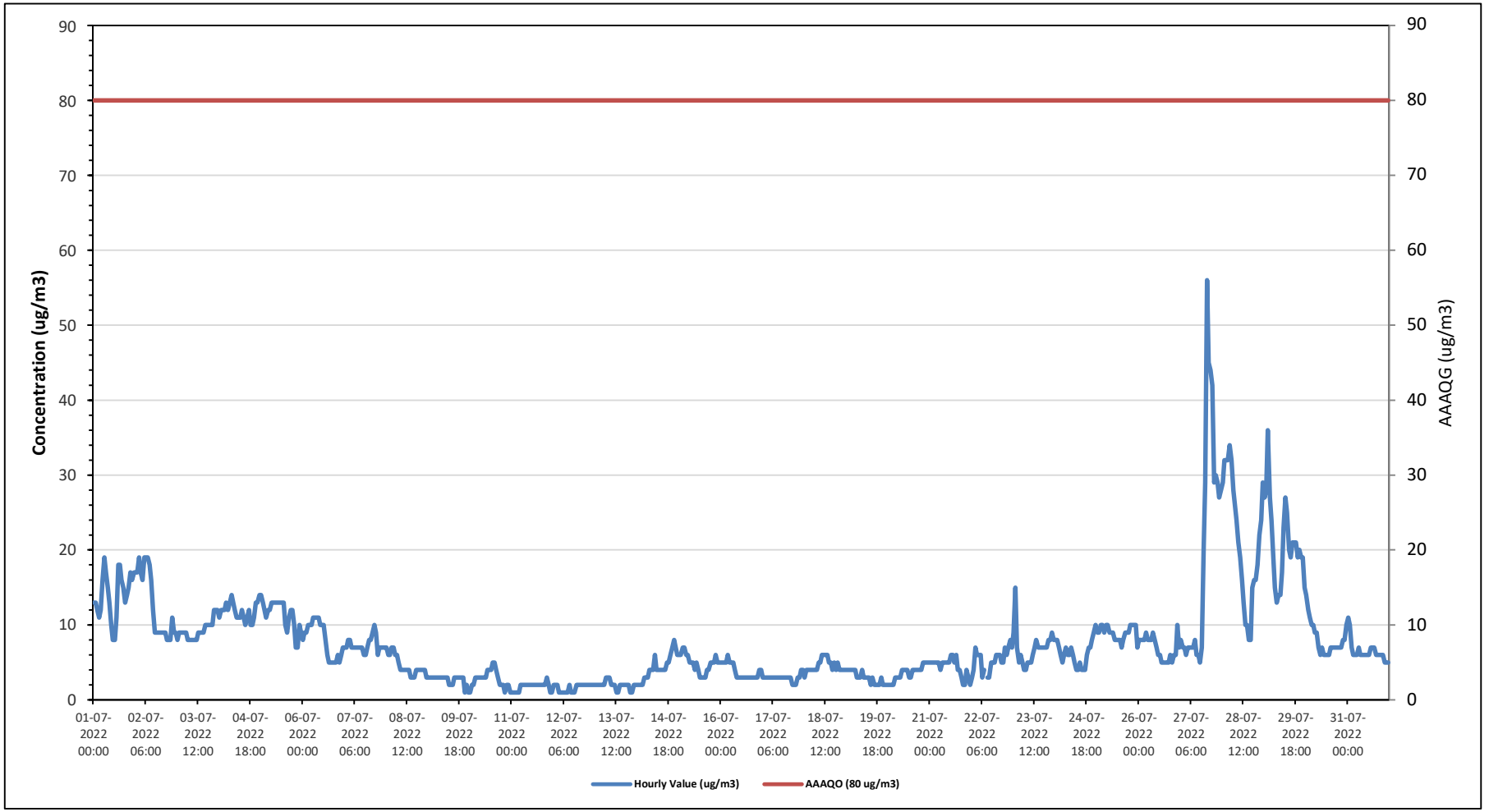
Maximum Hourly Value:	56	$\mu g/m^3$ on July 27 at hour 15	Hours in Service:	744
Maximum Daily Value:	21.4	$\mu g/m^3$ on July 28	Hours of Data:	743
Minimum Hourly Value:	1	$\mu g/m^3$ on July 9 at hour 21	Hours of Missing Data:	0
Minimum Daily Value:	1.6	$\mu g/m^3$ on July 12	Hours of Calibration:	1
Monthly Average:	7.5	$\mu g/m^3$	Operational Uptime:	100.0

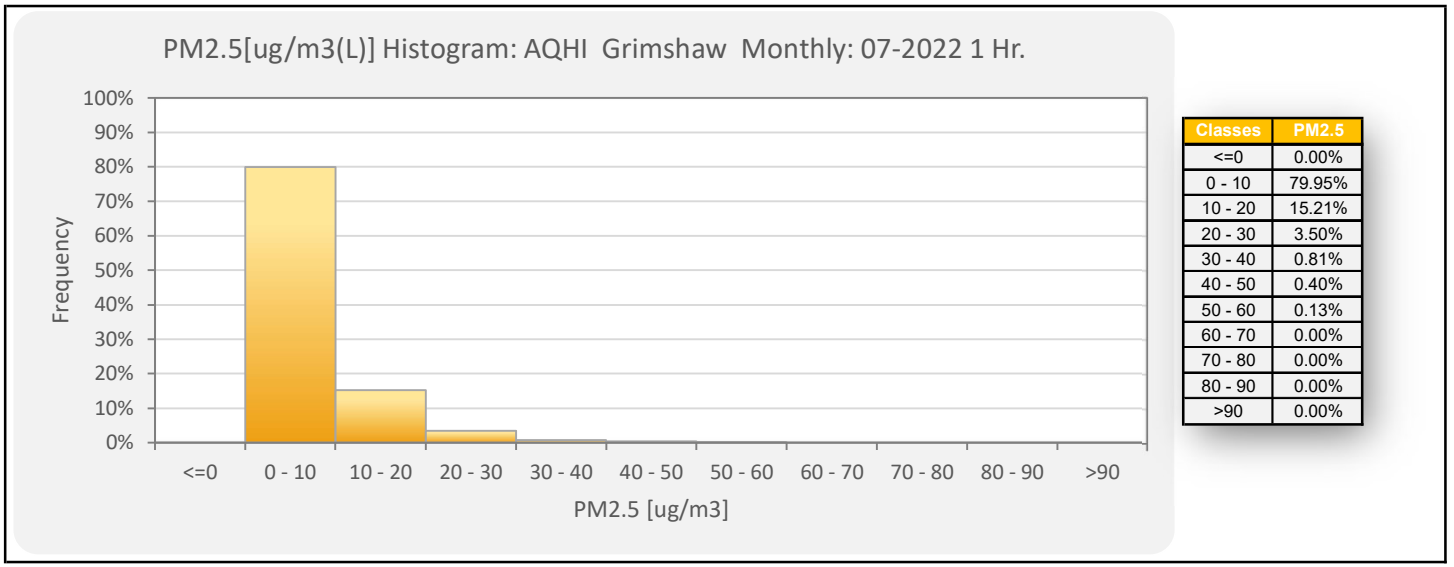
Day	Hourly Period Starting at (MST)																								Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	13	13	12	11	12	16	19	17	15	13	10	8	8	11	18	18	16	15	13	14	15	17	16	17	8	19	14.0
Jul 2	17	17	19	17	16	19	19	19	18	16	12	9	9	9	9	9	9	9	8	8	8	11	9	9	8	19	12.7
Jul 3	8	9	9	9	9	9	8	8	8	8	8	8	9	9	9	9	10	10	10	10	10	12	12	12	8	12	9.3
Jul 4	11	12	12	12	13	12	13	14	13	12	11	11	11	12	11	10	11	12	10	10	11	13	13	14	10	14	11.8
Jul 5	14	13	12	11	12	12	13	13	13	13	13	13	13	13	10	9	11	12	12	10	7	7	10	9	7	14	11.5
Jul 6	8	9	9	10	10	10	11	11	11	11	10	10	10	8	6	5	5	5	5	5	6	5	6	7	5	11	8.0
Jul 7	7	7	8	8	7	7	7	7	7	7	7	6	6	7	8	8	9	10	9	6	7	7	7	7	6	10	7.3
Jul 8	7	6	6	7	7	6	6	5	4	4	4	4	4	4	3	3	3	4	4	4	4	4	4	3	3	7	4.6
Jul 9	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	3	3	3	3	3	3	1	2	1	**1**	3	2.7
Jul 10	1	2	2	3	3	3	3	3	3	3	4	4	4	5	5	4	3	2	2	2	1	2	2	1	**1**	5	2.8
Jul 11	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	1	1	**1**	3	1.8
Jul 12	2	2	2	1	1	1	1	1	1	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2	**1**	2	1.6
Jul 13	2	2	2	2	2	2	3	3	3	2	2	2	1	1	2	2	2	2	2	2	1	1	2	2	**1**	3	2.0
Jul 14	2	2	2	2	3	3	3	4	4	4	6	4	4	4	4	4	4	5	5	6	7	8	7	6	2	8	4.3
Jul 15	6	6	7	7	6	6	5	5	5	4	5	4	3	3	3	3	4	4	5	5	5	6	5	5	3	7	4.9
Jul 16	5	5	5	5	6	5	5	5	4	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	3	6	3.8
Jul 17	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	3	3	4	4	2	4	3.0
Jul 18	3	4	4	4	4	4	4	4	5	5	6	6	6	6	5	5	4	5	4	5	4	4	4	4	3	6	4.5
Jul 19	4	4	4	4	4	4	3	3	3	4	3	3	3	3	2	3	2	2	2	2	3	2	2	2	2	4	3.0
Jul 20	2	2	2	2	3	3	3	3	4	4	4	4	3	3	4	4	4	4	4	4	5	5	5	5	2	5	3.6
Jul 21	5	5	5	5	5	5	4	5	5	5	5	5	6	6	5	6	4	4	3	2	2	4	3	2	2	6	4.4
Jul 22	3	4	7	6	6	6	3	4	**C**	3	3	5	5	5	6	6	6	5	5	7	6	7	8	7	3	8	5.3
Jul 23	9	15	7	5	6	5	4	4	5	5	5	6	7	8	7	7	7	7	7	7	8	8	9	8	4	15	6.9
Jul 24	8	8	7	6	5	6	7	6	6	7	6	5	4	4	5	4	4	4	6	7	7	8	9	10	4	10	6.2
Jul 25	9	9	10	10	9	10	10	9	9	9	8	8	8	8	7	8	9	9	9	10	10	10	10	7	7	10	9.0
Jul 26	8	8	8	8	9	8	8	8	9	8	7	6	6	5	5	5	5	5	6	5	6	6	10	7	5	10	6.9
Jul 27	8	7	7	6	7	7	7	7	8	6	6	5	7	20	29	**56**	45	44	42	29	30	29	27	28	5	**56**	19.5
Jul 28	29	32	32	32	34	32	28	26	24	21	19	16	13	10	10	8	8	15	16	16	18	22	24	29	8	34	**21.4**
Jul 29	27	28	36	27	24	19	15	13	14	14	17	23	27	25	20	19	21	21	21	19	20	19	19	15	13	36	21.0
Jul 30	14	12	11	10	10	9	9	7	6	7	6	6	6	6	7	7	7	7	7	7	7	8	8	10	6	14	8.1
Jul 31	11	10	7	6	6	6	7	6	6	6	6	6	6	7	7	7	6	6	6	6	6	5	5	5	5	11	6.5
Diurnal Maximum	29	32	36	32	34	32	28	26	24	21	19	23	27	25	29	56	45	44	42	29	30	29	27	29			
Diurnal Average	8.1	8.4	8.4	7.8	7.9	7.8	7.6	7.4	7.4	6.9	6.6	6.4	6.5	6.9	7.1	7.8	7.5	7.7	7.6	7.1	7.4	7.8	8.0	7.8			

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 PM2.5 - AQHI - Grimshaw Station

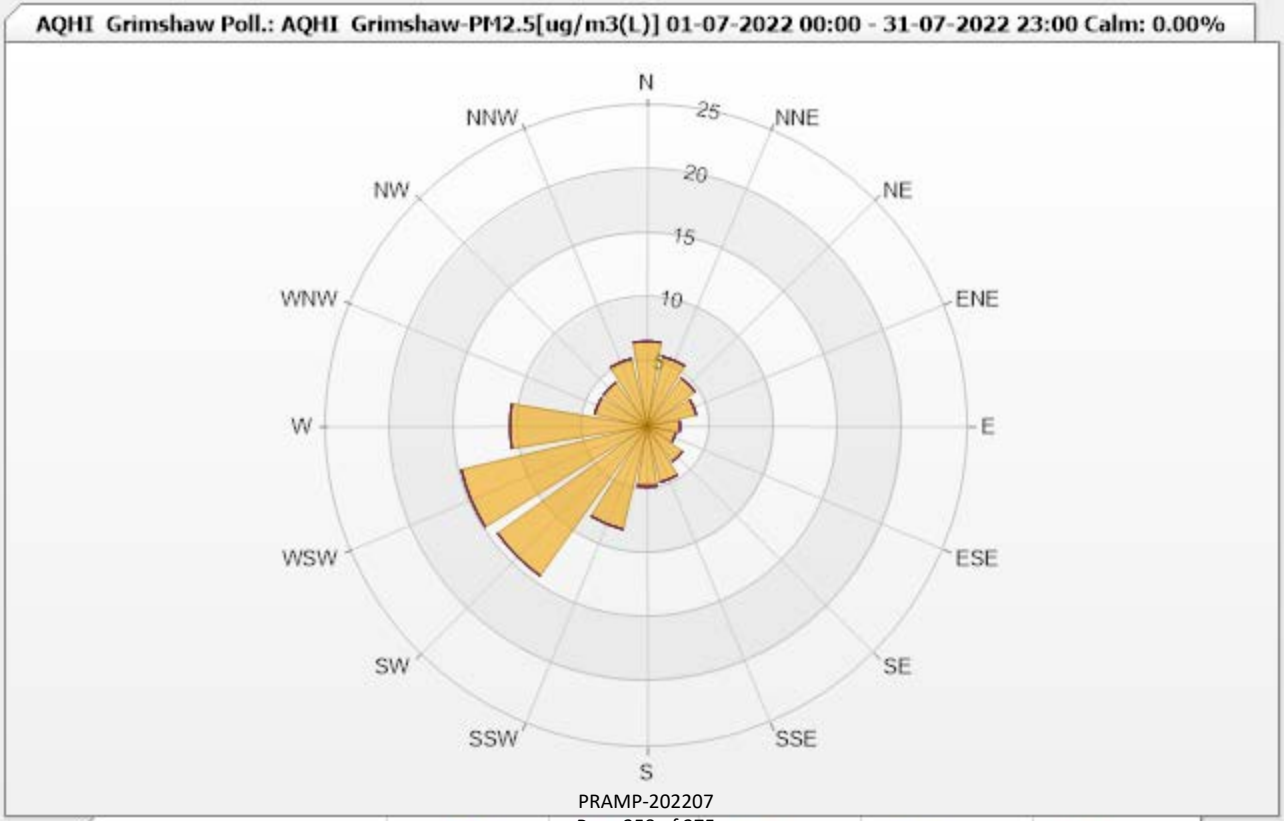




Classes	PM2.5
<=0	0.00%
0 - 10	79.95%
10 - 20	15.21%
20 - 30	3.50%
30 - 40	0.81%
40 - 50	0.40%
50 - 60	0.13%
60 - 70	0.00%
70 - 80	0.00%
80 - 90	0.00%
>90	0.00%

Wind: AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] Monthly: 07-2022 Type: PollutionRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 0.00% Valid Data: 99.46% Calm Avg: 0.00 [ug/m3(L)]

Direction	0-50	50-80	80-120	120-240	>240.0	Total
N	6.62	0	0	0	0	6.62
NNE	5.54	0	0	0	0	5.54
NE	4.59	0	0	0	0	4.59
ENE	3.92	0	0	0	0	3.92
E	2.57	0	0	0	0	2.57
ESE	2.3	0	0	0	0	2.3
SE	3.38	0	0	0	0	3.38
SSE	4.46	0	0	0	0	4.46
S	4.59	0.14	0	0	0	4.73
SSW	8.24	0	0	0	0	8.24
SW	14.32	0	0	0	0	14.32
WSW	14.86	0	0	0	0	14.86
W	10.68	0	0	0	0	10.68
WNW	4.19	0	0	0	0	4.19
NW	4.19	0	0	0	0	4.19
NNW	5.41	0	0	0	0	5.41
Summary	100	0.14	0	0	0	100


AQHI Grimshaw Poll.: AQHI Grimshaw-PM2.5[ug/m3(L)] 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 0.00%
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
5
% Icon Classes (ug/m3(L))
100 0-50
0 50-80
0 80-120
0 120-240
0 >240.0

peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - July 2022

Summary of Hourly Averages

RELATIVE HUMIDITY (RH) in %

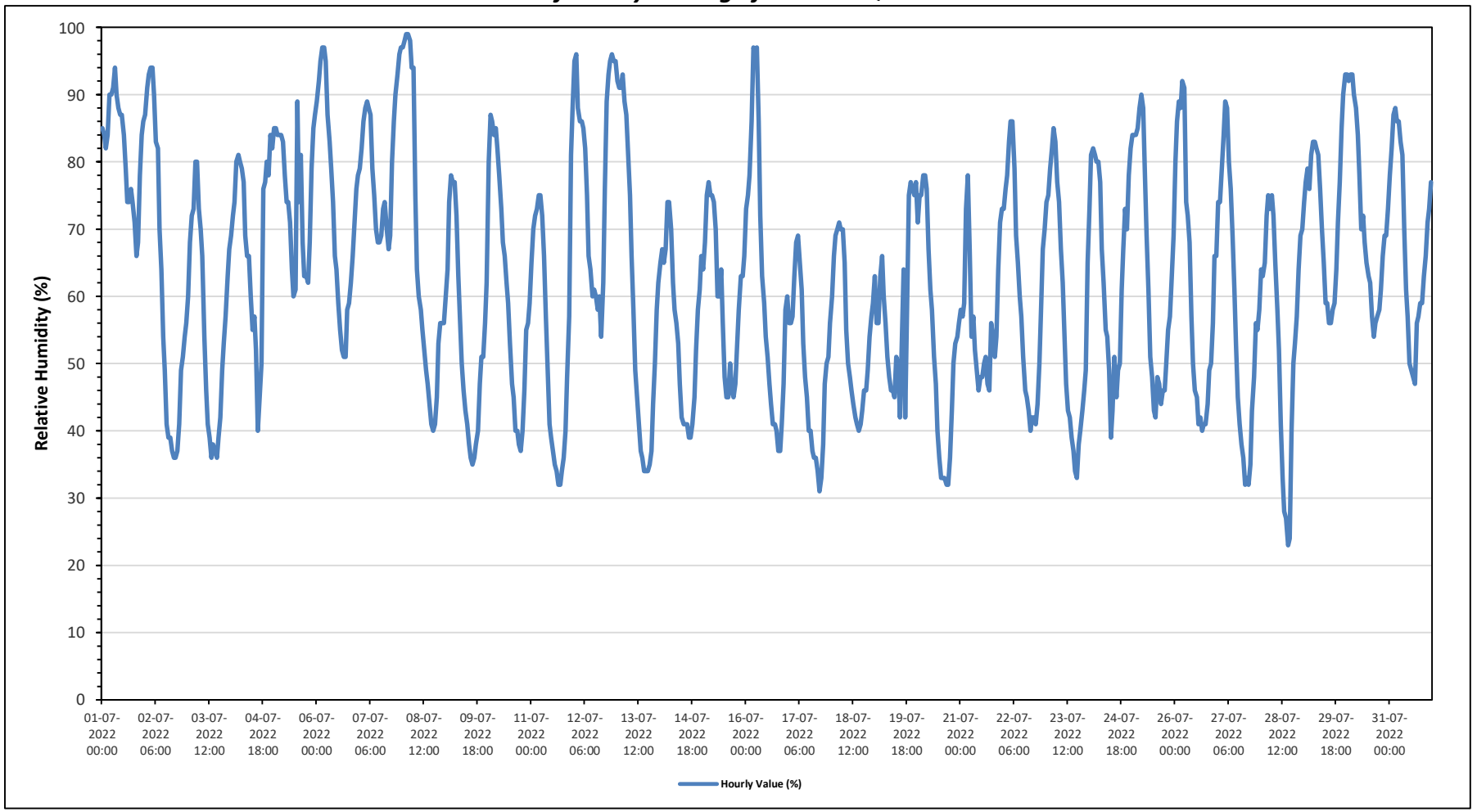
Maximum Hourly Value:	99	%	on July 8 at hour 2	Hours in Service:	744
Maximum Daily Value:	81.9	%	on July 1	Hours of Data:	744
Minimum Hourly Value:	23	%	on July 28 at hour 15	Hours of Missing Data:	0
Minimum Daily Value:	48.8	%	on July 17	Hours of Calibration:	0
Monthly Average:	62.9	%		Operational Uptime:	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
Jul 1	85	84	82	84	90	90	91	94	90	88	87	87	84	79	74	74	76	74	71	66	68	78	84	86	66	94	**81.9**
Jul 2	87	91	93	94	94	90	83	82	70	64	54	49	41	39	39	37	36	36	37	41	49	51	54	56	36	94	61.1
Jul 3	60	68	72	73	80	80	73	70	66	54	46	41	39	36	38	37	36	39	42	49	53	57	63	67	36	80	55.8
Jul 4	69	72	74	80	81	80	79	77	69	66	66	60	55	57	52	40	45	50	76	77	80	78	84	82	40	84	68.7
Jul 5	85	85	84	84	84	83	78	74	74	71	64	60	61	89	74	81	68	63	63	62	68	79	85	87	60	89	75.3
Jul 6	89	92	95	97	97	95	87	83	79	74	66	64	59	55	52	51	51	58	59	62	66	71	76	78	51	97	73.2
Jul 7	79	82	86	88	89	88	87	79	75	70	68	68	69	73	74	70	67	69	80	86	90	93	96	97	67	97	80.1
Jul 8	97	98	**99**	**99**	98	94	94	75	64	60	58	55	52	49	47	44	41	40	41	45	53	56	56	56	40	**99**	65.5
Jul 9	60	64	74	78	77	77	72	63	57	50	46	43	41	38	36	35	36	38	40	47	51	51	56	62	35	78	53.8
Jul 10	80	87	86	84	85	82	78	73	68	66	62	59	53	47	45	40	40	38	37	40	46	55	56	59	37	87	61.1
Jul 11	65	70	72	73	75	75	72	66	57	49	41	39	37	35	34	32	32	34	36	40	48	57	81	88	32	88	54.5
Jul 12	95	96	88	86	86	85	82	75	66	64	60	61	60	58	60	54	62	76	89	93	95	96	95	95	54	96	78.2
Jul 13	92	91	91	93	89	87	81	75	66	58	49	45	41	37	36	34	34	34	35	37	44	50	58	62	34	93	59.1
Jul 14	65	67	65	67	74	74	70	62	58	56	53	47	42	41	41	41	39	39	41	45	52	58	61	66	39	74	55.2
Jul 15	64	68	75	77	75	75	74	70	60	60	64	56	48	45	45	50	46	45	47	53	58	63	63	66	45	77	60.3
Jul 16	73	75	78	86	97	96	97	86	72	63	59	54	51	47	44	41	41	40	37	37	41	47	58	60	37	97	61.7
Jul 17	56	56	57	63	68	69	65	61	53	48	45	40	40	37	36	36	34	31	33	38	47	50	51	56	31	69	48.8
Jul 18	60	66	69	70	71	70	70	65	55	50	48	46	44	42	41	40	41	43	46	46	49	54	57	59	40	71	54.3
Jul 19	63	56	56	63	66	60	56	51	48	46	46	45	51	50	42	53	64	42	58	75	77	76	75	77	42	77	58.2
Jul 20	71	75	75	78	78	76	67	61	58	51	47	40	36	33	33	33	32	32	36	43	50	53	54	56	32	78	52.8
Jul 21	58	57	59	73	78	67	54	57	52	49	46	48	48	50	51	47	46	56	54	51	54	64	71	73	46	78	56.8
Jul 22	73	76	78	83	86	86	79	69	65	60	57	51	46	45	43	40	42	42	41	44	50	59	67	70	40	86	60.5
Jul 23	74	75	79	82	85	83	77	74	67	62	55	47	43	42	39	37	34	33	38	40	43	46	49	65	33	85	57.0
Jul 24	73	81	82	81	80	80	77	67	62	55	54	49	39	43	51	45	49	50	61	67	73	70	78	82	39	82	64.5
Jul 25	84	84	84	85	88	90	88	79	69	61	51	48	43	42	48	47	44	46	46	50	55	57	62	69	42	90	63.3
Jul 26	80	86	89	88	92	91	74	72	68	57	50	46	45	41	42	40	41	41	44	49	50	56	66	66	40	92	61.4
Jul 27	74	74	79	84	89	88	80	76	69	61	53	45	41	38	36	32	33	32	35	43	48	56	55	58	32	89	57.5
Jul 28	64	63	65	72	75	73	75	72	65	58	52	41	33	28	27	**23**	24	40	50	53	57	64	69	70	**23**	75	54.7
Jul 29	74	77	79	76	81	83	83	82	81	76	70	65	59	59	56	56	58	59	64	71	77	85	90	93	56	93	73.1
Jul 30	93	92	93	93	90	88	84	78	70	72	68	65	63	62	57	54	56	57	58	61	66	69	69	73	54	93	72.1
Jul 31	78	82	87	88	86	86	83	81	70	61	57	50	49	48	47	56	57	59	59	63	66	71	73	77	47	88	68.1
Diurnal Maximum	97	98	99	99	98	96	97	94	90	88	87	87	84	89	74	81	76	76	89	93	95	96	96	97			
Diurnal Average	74.8	77.1	78.9	81.4	83.4	82.0	77.7	72.5	65.9	60.6	56.2	52.1	48.8	47.9	46.5	45.2	45.3	46.3	50.1	54.0	58.8	63.5	68.1	71.3			

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

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

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



PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - July 2022

Summary of Hourly Averages

BAROMETRIC PRESSURE (BP) in millibar

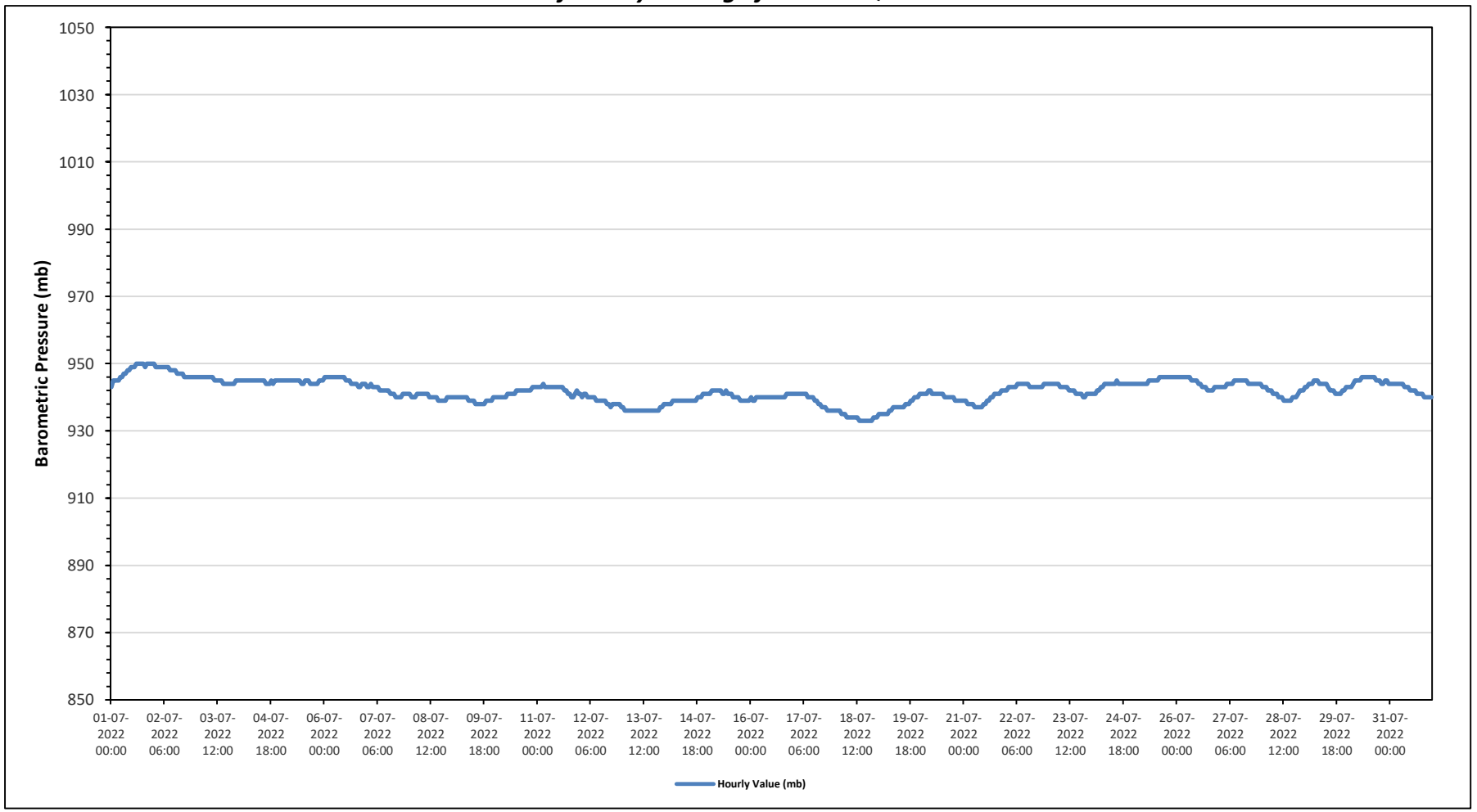
Maximum Hourly Value:	950	mb	on July 1 at hour 14	Hours in Service:	744
Maximum Daily Value:	948	mb	on July 1	Hours of Data:	744
Minimum Hourly Value:	933	mb	on July 18 at hour 13	Hours of Missing Data:	0
Minimum Daily Value:	934	mb	on July 18	Hours of Calibration:	0
Monthly Average:	942	mb		Operational 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
Jul 1	943	945	945	945	945	946	946	947	947	948	948	949	949	949	**950**	**950**	**950**	**950**	**950**	949	**950**	**950**	**950**	**950**	943	**950**	**948.0**
Jul 2	**950**	949	949	949	949	949	949	949	949	948	948	948	948	947	947	947	947	946	946	946	946	946	946	946	946	**950**	947.7
Jul 3	946	946	946	946	946	946	946	946	946	946	945	945	945	945	945	944	944	944	944	944	944	944	945	945	944	946	945.1
Jul 4	945	945	945	945	945	945	945	945	945	945	945	945	945	945	945	944	944	944	945	944	945	945	945	945	944	945	944.8
Jul 5	945	945	945	945	945	945	945	945	945	945	945	944	944	945	945	945	944	944	944	944	944	945	945	945	944	945	944.7
Jul 6	946	946	946	946	946	946	946	946	946	946	946	946	945	945	945	944	944	944	944	943	943	944	944	944	943	946	945.0
Jul 7	943	943	944	943	943	943	943	942	942	942	942	942	942	941	941	941	940	940	940	940	941	941	941	941	940	944	941.7
Jul 8	941	940	940	940	941	941	941	941	941	941	941	940	940	940	940	940	939	939	939	939	939	940	940	940	939	941	940.1
Jul 9	940	940	940	940	940	940	940	940	940	939	939	939	939	938	938	938	938	938	938	939	939	939	939	940	938	940	939.2
Jul 10	940	940	940	940	940	940	940	941	941	941	941	941	942	942	942	942	942	942	942	942	942	943	943	943	940	943	941.3
Jul 11	943	943	943	944	943	943	943	943	943	943	943	943	943	943	943	942	942	941	941	940	940	941	942	941	940	944	942.3
Jul 12	941	940	941	941	940	940	940	940	940	939	939	939	939	939	939	938	938	937	938	938	938	938	938	937	937	941	939.0
Jul 13	937	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	936	937	937	938	936	938	936.2
Jul 14	938	938	938	938	939	939	939	939	939	939	939	939	939	939	939	939	939	939	940	940	940	941	941	941	938	941	939.2
Jul 15	941	941	942	942	942	942	942	942	941	941	942	941	941	941	940	940	940	940	939	939	939	939	939	939	939	942	940.6
Jul 16	940	939	939	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	940	941	941	941	941	939	941	940.1
Jul 17	941	941	941	941	941	941	941	941	940	940	940	940	939	939	938	938	937	937	937	936	936	936	936	936	936	941	938.9
Jul 18	936	936	936	935	935	935	934	934	934	934	934	934	934	**933**	**933**	**933**	**933**	**933**	**933**	**933**	**933**	934	934	934	**933**	936	934.0
Jul 19	935	935	935	935	935	935	936	936	937	937	937	937	937	937	937	938	938	938	939	939	940	940	940	941	935	941	937.3
Jul 20	941	941	941	941	942	942	941	941	941	941	941	941	941	940	940	940	940	940	940	939	939	939	939	939	939	942	940.4
Jul 21	939	939	938	938	938	938	937	937	937	937	937	938	938	939	939	940	940	941	941	941	941	942	942	942	937	942	939.1
Jul 22	942	943	943	943	943	943	944	944	944	944	944	944	944	943	943	943	943	943	943	943	943	944	944	944	942	944	943.4
Jul 23	944	944	944	944	944	944	943	943	943	943	943	942	942	942	942	941	941	941	941	940	940	941	941	941	940	944	942.3
Jul 24	941	941	941	942	942	943	943	944	944	944	944	944	944	944	945	944	944	944	944	944	944	944	944	944	941	945	943.4
Jul 25	944	944	944	944	944	944	944	944	945	945	945	945	945	945	946	946	946	946	946	946	946	946	946	946	944	946	945.1
Jul 26	946	946	946	946	946	946	946	946	945	945	945	945	944	944	943	943	943	942	942	942	942	943	943	943	942	946	944.3
Jul 27	943	943	943	943	944	944	944	944	945	945	945	945	945	945	945	945	944	944	944	944	944	944	944	944	943	945	944.2
Jul 28	943	943	943	942	942	942	941	941	941	940	940	940	939	939	939	939	939	940	940	940	941	942	942	942	939	943	940.8
Jul 29	943	943	944	944	944	945	945	945	944	944	944	944	944	943	942	942	942	941	941	941	941	942	942	943	941	945	943.0
Jul 30	943	943	943	944	945	945	945	945	946	946	946	946	946	946	946	946	945	945	945	944	944	945	945	944	943	946	944.9
Jul 31	944	944	944	944	944	944	944	944	943	943	943	942	942	942	942	941	941	941	941	940	940	940	940	940	940	944	942.2
Diurnal Maximum	950	949	949	949	949	949	949	949	949	948	948	949	949	949	950	950	950	950	950	949	950	950	950	950			
Diurnal Average	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	942	941	941	941	941	941	942	942	942			

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

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

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



peace river area monitoring program pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - July 2022

Summary of Hourly Averages

AMBIENT TEMPERATURE (AT) in Degree Celsius

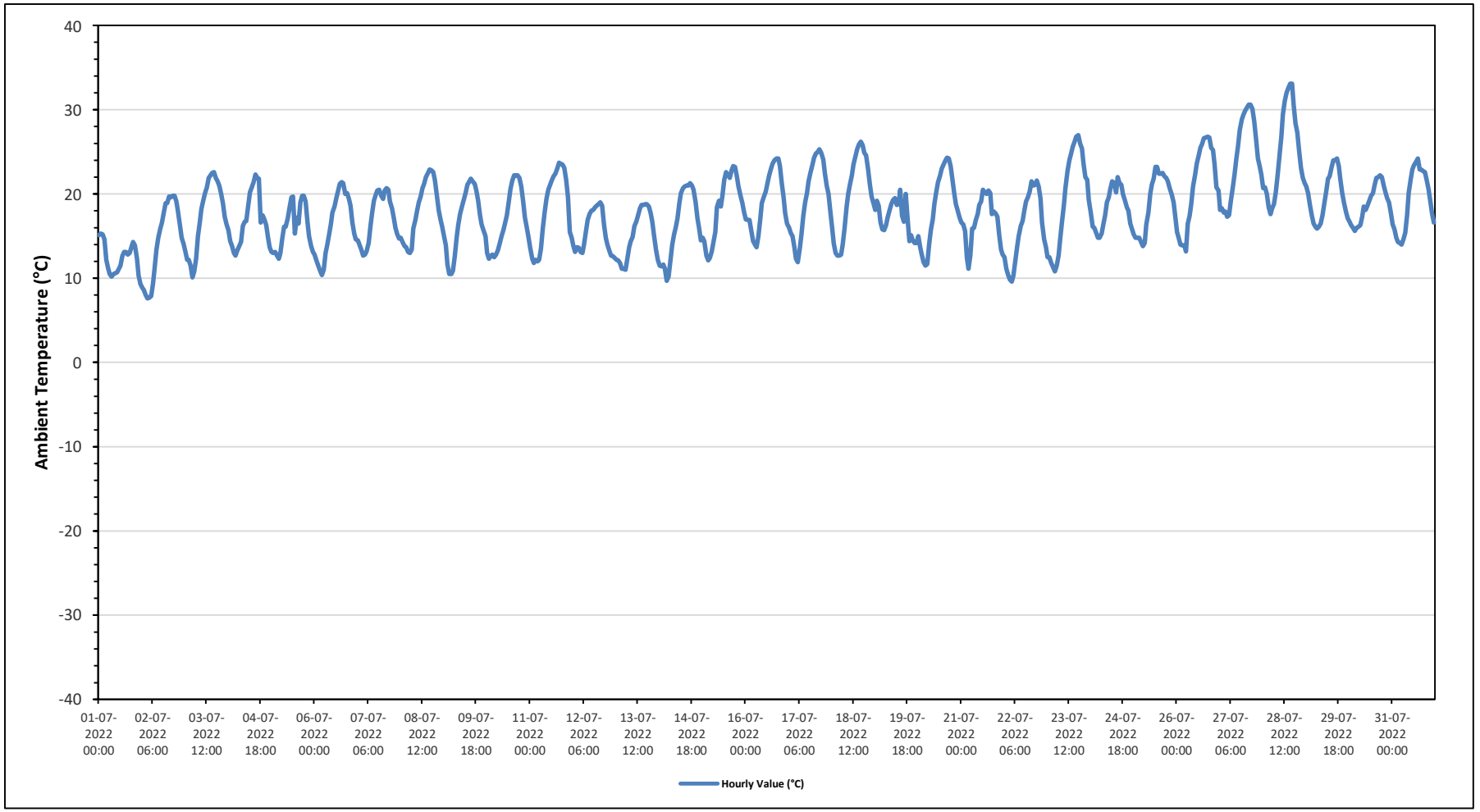
Maximum Hourly Value:	33.1	°C	on July 28 at hour 15	Hours in Service:	744
Maximum Daily Value:	24.9	°C	on July 28	Hours of Data:	744
Minimum Hourly Value:	7.6	°C	on July 2 at hour 3	Hours of Missing Data:	0
Minimum Daily Value:	12.4	°C	on July 1	Hours of Calibration:	0
Monthly Average:	18.0	°C		Operational 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
Jul 1	15.1	15.3	15.2	14.6	12.2	11.2	10.5	10.2	10.5	10.6	10.7	11.1	11.5	12.6	13.1	13.1	12.8	13	13.6	14.3	13.9	12.3	10.3	9.3	9.3	15.3	12.4
Jul 2	8.9	8.6	8	**7.6**	7.7	7.9	9.4	11.2	13.4	14.8	15.8	16.6	17.8	18.9	18.9	19.7	19.6	19.8	19.8	19.1	17.9	16.4	14.8	14.1	**7.6**	19.8	14.4
Jul 3	13.2	12.2	12.2	11.5	10.1	10.8	12.3	15	16.6	18.2	19.2	20.1	20.8	21.9	22.2	22.5	22.6	21.9	21.5	20.9	19.9	18.9	17.3	16.4	10.1	22.6	17.4
Jul 4	15.7	14.4	13.8	13	12.7	13.3	13.8	14.3	16.2	16.7	16.8	18.5	20.2	20.8	21.4	22.3	21.9	21.8	16.6	17.5	17	16.3	14.8	13.7	12.7	22.3	16.8
Jul 5	13.1	13	13.1	12.7	12.3	13	14.7	16.1	16.1	17.1	18.4	19.6	19.7	15.3	17.2	16.5	19	19.8	19.8	19.1	16.7	15	13.8	13.1	12.3	19.8	16.0
Jul 6	12.8	12.1	11.5	10.9	10.4	11	13	13.9	15.1	16.4	17.8	18.5	19.5	20.3	21.2	21.4	21.3	20	20.1	19.4	18.6	16.6	15.3	14.6	10.4	21.4	16.3
Jul 7	14.5	13.9	13.4	12.7	12.8	13.2	14.2	16.2	17.7	19.2	19.9	20.4	20.5	19.8	19.4	20.4	20.7	20.5	19.1	18.3	17.1	16	15.2	14.7	12.7	20.7	17.1
Jul 8	14.8	14.3	13.8	13.7	13.1	13	13.4	15.9	16.9	18.1	19	19.7	20.7	21.2	22	22.5	22.9	22.8	22.6	21.7	20	18	16.9	16.1	13.0	22.9	18.0
Jul 9	15	13.9	11.6	10.5	10.5	10.9	12.6	14.8	16.3	17.6	18.6	19.3	20.1	21.1	21.4	21.8	21.5	21.2	20.4	19.2	17.5	16.4	15.7	15	10.5	21.8	16.8
Jul 10	13	12.3	12.6	12.8	12.5	12.8	13.3	14.1	15	15.7	16.5	17.4	19.2	20.6	21.6	22.2	22.2	22.2	21.9	20.9	19.2	17.2	16.2	15	12.3	22.2	16.9
Jul 11	13.6	12.3	11.8	12.2	12	12.2	13.5	15.9	17.8	19.4	20.5	21	21.6	22.1	22.4	23	23.7	23.6	23.5	23.1	21.7	19.6	15.5	14.8	11.8	23.7	18.2
Jul 12	13.9	13.1	13.7	13.6	13.1	13	14	15.5	16.9	17.6	18	18.1	18.4	18.6	18.8	19	18.6	16.4	14.8	14	13.3	12.7	12.6	12.4	12.4	19.0	15.4
Jul 13	12.2	12.1	11.8	11.1	11.1	11	12.3	13.7	14.4	14.9	16.2	16.7	17.5	18.3	18.7	18.7	18.8	18.8	18.5	17.7	16.7	15	13.4	12.2	11.0	18.8	15.1
Jul 14	11.5	11.4	11.6	11.1	9.7	10.2	11.8	14	15.2	16	17.1	18.9	20.1	20.7	20.9	21	21	21.3	21	20.5	19	17.1	16	14.5	9.7	21.3	16.3
Jul 15	14.8	14.4	12.7	12.1	12.4	13.1	14.3	15.5	18.4	19.2	18.5	19.8	21.7	22.6	22.3	21.9	22.8	23.3	23.2	22.1	20.9	19.9	18.9	17.9	12.1	23.3	18.4
Jul 16	17	16.9	16.9	15.8	14.4	14	13.7	15	17	18.9	19.6	20.3	21.2	22.2	23	23.6	24	24.2	24.2	23.3	21.3	19.6	17.7	16.5	13.7	24.2	19.2
Jul 17	16	15.4	15	13.7	12.3	11.9	13.6	15.2	17.4	19	20.1	21.5	22.5	23.5	24.3	24.8	25	25.3	24.9	24.1	22.5	21	20	18.2	11.9	25.3	19.5
Jul 18	16.2	14.1	13	12.7	12.7	12.8	14	15.9	18.5	20	21.2	22.2	23.5	24.4	25.3	25.9	26.2	25.8	24.9	24.6	23.1	21	19.7	18.9	12.7	26.2	19.9
Jul 19	18.1	19.2	18.6	16.6	15.8	15.7	16.3	17.2	18	18.8	19.3	19.5	18.7	18.8	20.5	17.4	16.7	20	17.1	14.4	15.1	14.5	14.2	14.2	14.2	20.5	17.3
Jul 20	15	13.7	12.8	11.9	11.5	11.7	14	15.8	17	18.8	20.2	21.4	22.1	23	23.5	23.9	24.3	24.2	23.3	21.7	20	18.8	18	17.2	11.5	24.3	18.5
Jul 21	16.6	16.4	15.6	12.4	11.1	12.7	15.9	16	16.9	17.6	18.7	19.1	20.5	20.2	20	20.4	20.1	17.6	17.9	17.7	17.3	15.1	13.4	12.8	11.1	20.5	16.8
Jul 22	12.5	11.1	10.4	9.8	9.6	10.3	12	13.7	15	16.2	16.8	18.1	19.1	19.6	20.3	21.5	21	21.1	21.6	20.9	19.5	16.6	14.6	13.7	9.6	21.6	16.0
Jul 23	12.5	12.5	11.8	11.3	10.8	11.5	12.7	14.6	16.7	18.6	20.7	22.7	24	24.7	25.6	26.2	26.8	27	26	25.4	23.6	22	21.7	19.3	10.8	27.0	19.5
Jul 24	17.7	16.1	16	15.4	14.8	14.8	15.3	16.5	17.4	19	19.6	20.6	21.5	21.3	20.2	22	21.3	21.1	20	19.2	18.4	18	16.5	15.8	14.8	22.0	18.3
Jul 25	15.2	14.8	14.8	14.8	14.3	13.8	14.2	16.4	17.8	20	21.1	21.8	23.2	23.2	22.4	22.4	22.5	22.1	21.9	21.5	20.7	19.9	19	17.4	13.8	23.2	19.0
Jul 26	15.5	14.7	14	13.9	13.9	13.2	16.5	17.4	18.8	20.9	22.3	23.6	24.5	25.5	25.9	26.6	26.7	26.8	26.7	25.5	25.2	23.5	20.8	20.4	13.2	26.8	21.0
Jul 27	18.1	18.3	17.8	17.9	17.3	17.5	19.2	20.7	22.3	24.2	25.6	27.6	28.9	29.4	29.9	30.3	30.6	30.6	30.1	28.6	26.5	24.2	23.4	22.3	17.3	30.6	24.2
Jul 28	20.7	20.8	20	18.4	17.6	18.3	18.8	20.2	22.2	24.5	26.7	29.4	31	32	32.6	**33.1**	**33.1**	30.6	28.4	27.3	25.1	23.1	21.9	21.3	17.6	**33.1**	**24.9**
Jul 29	20.9	20.1	18.7	17.5	16.5	16.1	15.9	16.1	16.5	17.5	18.9	20.3	21.8	22.1	23.1	24	24	24.2	23.3	21.7	20.1	18.9	17.9	17.1	15.9	24.2	19.7
Jul 30	16.7	16.3	16	15.6	16	16.1	16.3	17.3	18.5	18.1	18.6	19.2	19.8	20.1	21	21.9	22	22.2	22	21	20.3	19.5	19	17.8	15.6	22.2	18.8
Jul 31	16.4	15.8	14.8	14.3	14.2	14	14.6	15.4	17.5	20.1	21.6	22.9	23.4	23.8	24.2	22.9	22.9	22.7	22.6	21.6	20.5	19	17.7	16.6	14.0	24.2	19.1
Diurnal Maximum	20.9	20.8	20.0	18.4	17.6	18.3	19.2	20.7	22.3	24.5	26.7	29.4	31.0	32.0	32.6	33.1	33.1	30.6	30.1	28.6	26.5	24.2	23.4	22.3			
Diurnal Average	15.1	14.5	14.0	13.3	12.8	12.9	14.1	15.5	16.9	18.2	19.2	20.2	21.1	21.6	22.0	22.4	22.5	22.3	21.7	20.8	19.6	18.1	16.8	15.9			

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

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

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



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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - July 2022

Summary of Hourly Averages

STATION TEMPERATURE (ST) in Degree Celsius

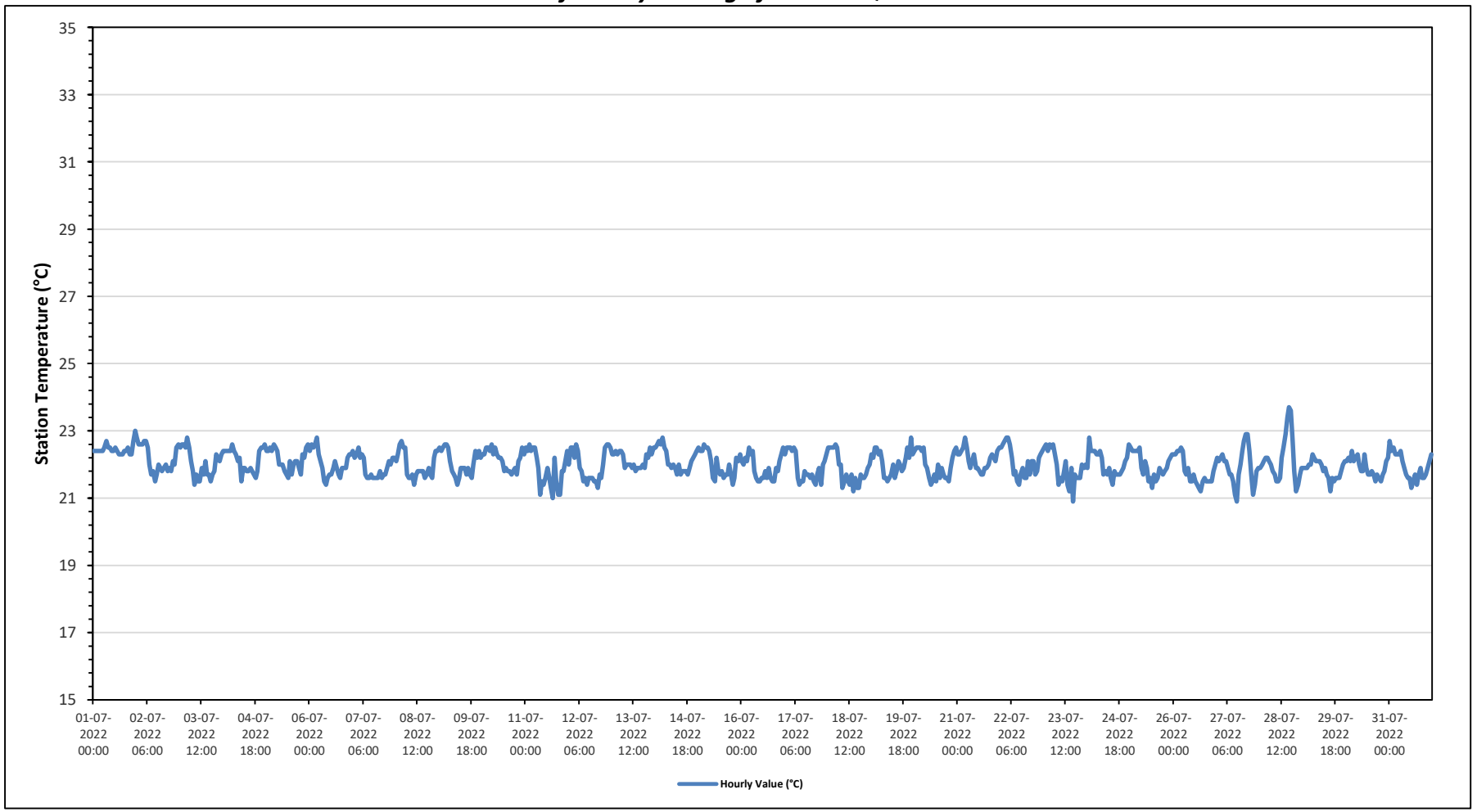
Maximum Hourly Value:	23.7	°C	on July 28 at hour 16	Hours in Service:	744
Maximum Daily Value:	22.5	°C	on July 1	Hours of Data:	744
Minimum Hourly Value:	20.9	°C	on July 23 at hour 16	Hours of Missing Data:	0
Minimum Daily Value:	21.8	°C	on July 26	Hours of Calibration:	0
Monthly Average:	22.0	°C		Operational 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
Jul 1	22.4	22.4	22.4	22.4	22.4	22.4	22.5	22.7	22.5	22.5	22.4	22.4	22.5	22.4	22.3	22.3	22.3	22.4	22.4	22.5	22.3	22.3	22.7	23.0	22.3	23.0	**22.5**
Jul 2	22.8	22.6	22.6	22.6	22.7	22.7	22.5	22.0	21.7	21.8	21.5	21.7	22.0	21.9	21.8	21.9	22.0	21.8	21.9	21.8	22.1	22.0	22.5	22.6	21.5	22.8	22.1
Jul 3	22.5	22.6	22.6	22.5	22.8	22.5	22.1	21.8	21.4	21.7	21.5	21.5	21.9	21.7	22.1	21.7	21.7	21.5	21.7	21.8	22.3	22.2	22.1	22.3	21.4	22.8	22.0
Jul 4	22.4	22.4	22.4	22.4	22.4	22.6	22.4	22.3	22.1	22.2	21.5	21.9	21.9	21.8	21.8	21.9	21.8	21.7	21.6	21.8	22.4	22.5	22.5	22.6	21.5	22.6	22.1
Jul 5	22.4	22.4	22.5	22.4	22.6	22.5	22.4	22.0	22.0	22.0	21.8	21.7	21.6	22.1	21.7	22.0	22.1	22.1	21.9	21.7	22.3	22.2	22.5	22.6	21.6	22.6	22.1
Jul 6	22.4	22.6	22.5	22.6	22.8	22.3	22.1	21.9	21.5	21.4	21.6	21.7	21.7	21.9	22.1	21.9	21.7	21.6	21.9	21.9	21.9	22.2	22.3	22.3	21.4	22.8	22.0
Jul 7	22.4	22.2	22.3	22.5	22.2	22.3	22.2	21.7	21.6	21.6	21.7	21.6	21.6	21.6	21.6	21.8	21.6	21.7	21.7	21.9	22.1	22.0	22.2	22.2	21.6	22.5	21.9
Jul 8	22.1	22.3	22.6	22.7	22.5	22.5	21.7	21.6	21.6	21.7	21.4	21.7	21.8	21.8	21.8	21.8	21.6	21.7	21.9	21.7	21.6	22.2	22.4	22.4	21.4	22.7	22.0
Jul 9	22.5	22.4	22.5	22.6	22.6	22.5	22.1	21.8	21.7	21.6	21.4	21.6	21.9	21.9	21.9	21.7	21.9	21.7	21.6	22.0	22.4	22.2	22.4	22.2	21.4	22.6	22.0
Jul 10	22.3	22.3	22.5	22.5	22.4	22.6	22.3	22.5	22.3	22.2	22.2	22.1	21.8	21.9	21.8	21.8	21.7	21.8	21.9	21.7	22.1	22.2	22.5	22.3	21.7	22.6	22.2
Jul 11	22.5	22.4	22.6	22.4	22.5	22.5	22.2	21.9	21.1	21.5	21.4	21.6	21.9	21.6	21.3	21.0	22.2	21.5	21.1	21.1	21.8	21.8	22.1	22.4	21.0	22.6	21.9
Jul 12	22.0	22.5	22.5	22.2	22.6	22.4	21.9	21.8	21.5	21.6	21.4	21.6	21.6	21.6	21.5	21.5	21.3	21.7	21.6	22.0	22.5	22.6	22.6	22.5	21.3	22.6	22.0
Jul 13	22.3	22.3	22.4	22.3	22.4	22.4	22.3	21.9	22.0	22.0	22.0	21.9	22.0	21.8	21.9	21.9	21.9	22.0	21.9	22.3	22.2	22.5	22.3	22.5	21.8	22.5	22.1
Jul 14	22.5	22.6	22.7	22.6	22.8	22.5	22.4	22.0	22.0	21.9	22.0	21.9	21.7	22.0	21.7	21.8	21.8	21.8	21.7	21.9	22.1	22.2	22.3	22.4	21.7	22.8	22.1
Jul 15	22.5	22.4	22.4	22.6	22.5	22.5	22.4	22.1	21.6	21.5	22.2	21.8	21.7	21.8	21.6	21.7	21.7	22.0	21.7	21.4	21.6	22.2	22.1	22.3	21.4	22.6	22.0
Jul 16	22.1	22.0	22.2	22.1	22.5	22.3	22.4	21.8	21.6	21.5	21.5	21.6	21.6	21.8	21.6	21.9	21.6	21.5	21.5	21.9	21.8	22.1	22.3	22.5	21.5	22.5	21.9
Jul 17	22.3	22.5	22.5	22.5	22.4	22.5	22.4	21.6	21.4	21.5	21.5	21.8	21.7	21.7	21.6	21.7	21.5	21.4	21.7	21.9	21.4	22.0	22.1	22.3	21.4	22.5	21.9
Jul 18	22.5	22.5	22.5	22.5	22.6	22.5	22.0	22.0	21.3	21.5	21.7	21.5	21.4	21.7	21.2	21.6	21.3	21.3	21.7	21.6	21.6	21.7	21.9	22.0	21.2	22.6	21.8
Jul 19	22.3	22.2	22.5	22.5	22.3	22.4	22.1	21.6	21.6	21.5	21.6	21.7	22.0	21.6	21.8	22.1	22.0	21.8	21.9	22.2	22.5	22.2	22.8	22.3	21.5	22.8	22.1
Jul 20	22.4	22.5	22.5	22.5	22.4	22.5	22.0	21.9	21.6	21.4	21.5	21.7	21.5	22.0	21.6	21.9	21.7	21.6	21.6	21.5	21.9	22.2	22.4	22.5	21.4	22.5	22.0
Jul 21	22.3	22.3	22.4	22.5	22.8	22.5	22.1	21.9	22.1	22.3	21.9	21.9	21.8	21.7	21.7	21.9	21.9	22.0	22.2	22.3	22.2	22.1	22.4	22.5	21.7	22.8	22.2
Jul 22	22.5	22.6	22.7	22.8	22.8	22.6	22.2	21.7	21.8	21.5	21.4	21.7	21.9	21.6	21.6	22.1	21.7	22.1	22.1	21.7	21.8	22.2	22.3	22.4	21.4	22.8	22.1
Jul 23	22.5	22.6	22.4	22.6	22.5	22.6	22.3	22.0	21.4	21.6	21.5	21.8	22.1	21.4	21.2	21.9	**20.9**	21.7	21.6	21.6	21.6	22.0	21.9	22.0	**20.9**	22.6	21.9
Jul 24	21.9	22.8	22.4	22.4	22.4	22.3	22.3	22.4	22.2	21.7	21.8	21.7	21.9	21.6	21.4	21.8	21.7	21.7	21.7	21.8	21.9	22.1	22.2	22.6	21.4	22.8	22.0
Jul 25	22.5	22.4	22.4	22.4	22.4	22.5	21.9	21.7	22.1	21.9	21.5	21.6	21.3	21.7	21.5	21.6	21.9	21.8	21.7	21.8	21.9	22.1	22.2	22.3	21.3	22.5	22.0
Jul 26	22.3	22.3	22.4	22.4	22.5	22.4	21.8	21.7	21.9	21.5	21.5	21.7	21.5	21.4	21.3	21.2	21.5	21.6	21.5	21.5	21.5	21.5	21.8	22.0	21.2	22.5	21.8
Jul 27	22.2	22.1	22.2	22.3	22.1	22.1	21.9	21.7	21.7	21.5	21.1	**20.9**	21.7	22.0	22.4	22.7	22.9	22.9	22.4	21.7	21.1	21.4	21.8	21.9	**20.9**	22.9	21.9
Jul 28	21.9	22.0	22.1	22.2	22.2	22.1	22.0	21.8	21.7	21.5	21.5	21.6	22.2	22.5	22.9	23.4	**23.7**	23.6	22.7	21.8	21.2	21.4	21.7	21.9	21.2	**23.7**	22.2
Jul 29	21.9	21.9	21.9	22.0	22.0	22.3	22.2	22.1	22.1	22.1	22.0	21.8	21.9	21.7	21.6	21.2	21.6	21.5	21.6	21.6	21.6	21.8	22.0	22.1	21.2	22.3	21.9
Jul 30	22.1	22.2	22.1	22.4	22.1	22.2	22.3	22.0	21.8	21.8	22.3	21.9	21.7	21.7	21.8	21.7	21.5	21.7	21.6	21.5	21.7	21.8	22.1	22.2	21.5	22.4	21.9
Jul 31	22.7	22.4	22.5	22.3	22.3	22.3	22.4	22.1	21.9	21.7	21.6	21.6	21.3	21.5	21.7	21.4	21.7	21.9	21.6	21.6	21.7	21.9	22.1	22.3	21.3	22.7	21.9
Diurnal Maximum	22.8	22.8	22.7	22.8	22.8	22.7	22.5	22.7	22.5	22.5	22.4	22.4	22.5	22.5	22.9	23.4	23.7	23.6	22.7	22.5	22.5	22.6	22.8	23.0			
Diurnal Average	22.3	22.4	22.4	22.4	22.5	22.4	22.2	21.9	21.8	21.7	21.7	21.7	21.8	21.8	21.7	21.8	21.8	21.8	21.8	21.8	21.9	22.1	22.2	22.3			

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

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

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



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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - July 2022

Summary of Hourly Averages

VECTOR WIND SPEED (VWS) in km/hr

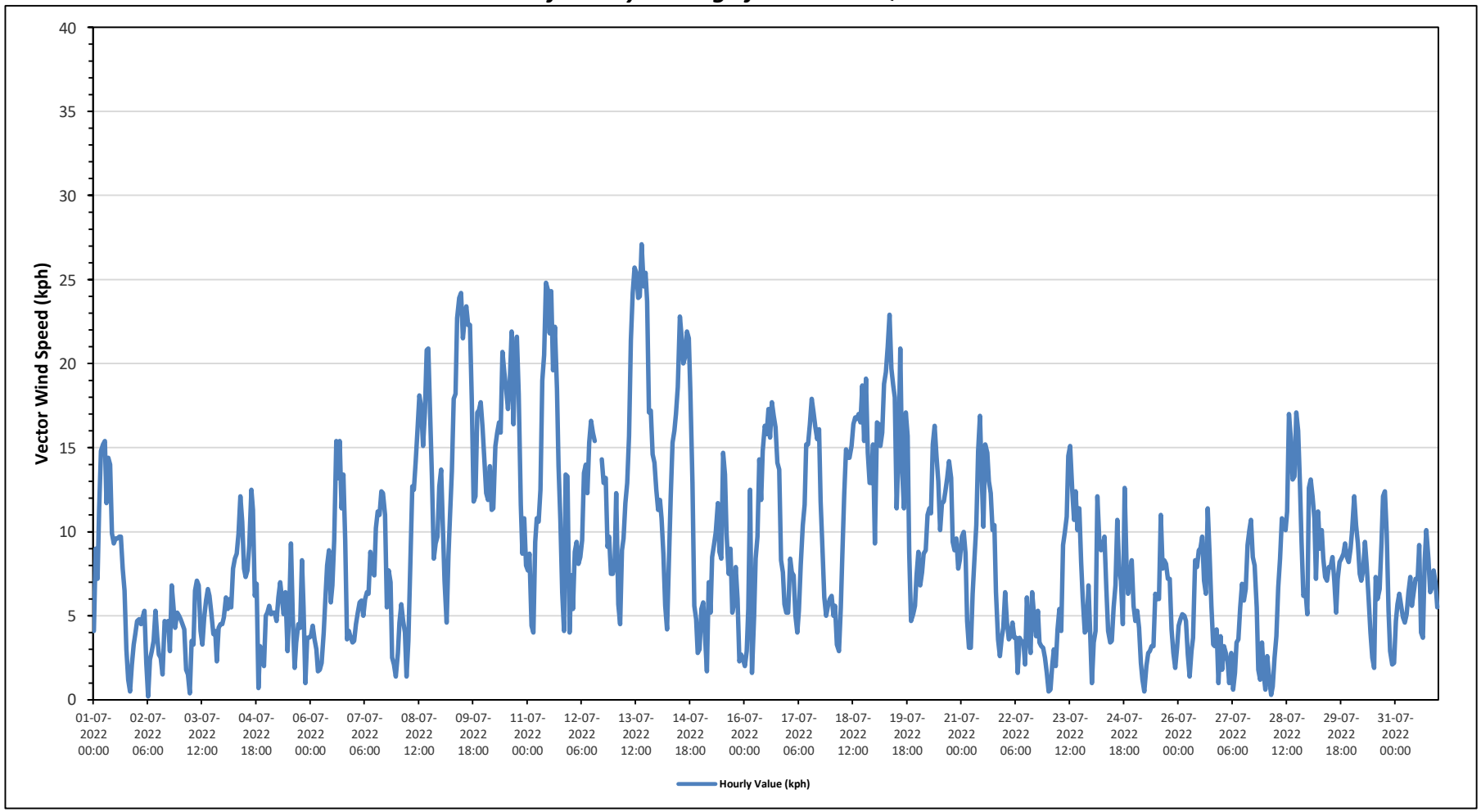
Maximum Hourly Value:	27.1	kph	on July 13 at hour 15	Hours in Service:	744
Maximum Daily Value:	17.1	kph	on July 13	Hours of Data:	741
Minimum Hourly Value:	0.2	kph	on July 2 at hour 6	Hours of Missing Data:	0
Minimum Daily Value:	3.8	kph	on July 22	Hours of Calibration:	3
Monthly Average:	9.0	kph		Operational 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
Jul 1	4.1	9.0	7.2	11.3	14.8	15.2	15.4	11.7	14.4	14.0	9.9	9.3	9.6	9.6	9.7	9.7	7.8	6.5	3.0	1.2	0.5	2.1	3.3	3.9	0.5	15.4	8.5
Jul 2	4.7	4.8	4.5	4.9	5.3	2.2	**0.2**	2.4	2.9	3.5	5.3	3.7	2.7	2.5	1.5	4.7	4.5	4.7	2.9	6.8	5.7	4.3	5.2	5.0	**0.2**	6.8	4.0
Jul 3	4.8	4.5	4.2	1.8	1.5	0.4	3.5	3.3	6.5	7.1	6.8	4.1	3.3	4.9	5.9	6.6	6.2	5.2	3.9	4.1	2.3	4.3	4.5	4.5	0.4	7.1	4.3
Jul 4	4.9	6.1	5.4	6.0	5.5	7.8	8.4	8.7	9.9	12.1	10.6	7.8	7.3	7.7	9.2	12.5	11.3	6.2	6.9	0.7	3.2	2.9	2.0	5.0	0.7	12.5	7.0
Jul 5	5.2	5.6	5.1	5.2	5.2	4.7	6.1	7.0	6.1	5.1	6.4	2.9	5.1	9.3	4.9	1.9	3.4	4.5	4.3	8.3	5.5	1.0	3.7	3.7	1.0	9.3	5.0
Jul 6	3.8	4.4	3.6	3.0	1.7	1.8	2.2	4.0	5.9	8.0	8.9	5.8	6.8	9.5	15.4	13.2	15.4	11.4	13.4	9.5	3.6	4.1	3.7	3.4	1.7	15.4	6.8
Jul 7	3.5	4.5	5.2	5.8	5.9	5.0	6.0	6.4	6.3	8.8	7.6	7.4	10.2	11.2	11.0	12.4	12.3	11.0	5.5	7.7	7.0	2.5	2.1	1.4	1.4	12.4	6.9
Jul 8	2.8	4.6	5.7	4.7	4.0	1.4	3.5	8.4	12.7	12.5	14.2	16.1	18.1	17.4	15.1	17.1	20.8	20.9	17.0	13.2	8.4	9.3	9.7	12.7	1.4	20.9	11.3
Jul 9	13.7	10.6	7.1	4.6	8.6	11.0	13.6	17.9	18.2	22.7	23.9	24.2	21.5	22.5	23.4	22.3	22.3	17.8	11.8	12.1	17.1	17.2	17.7	16.2	4.6	24.2	16.6
Jul 10	14.0	12.3	11.9	13.9	11.3	11.4	15.1	15.9	16.5	15.9	20.7	19.5	18.5	17.3	18.9	21.9	16.4	20.1	21.6	18.2	11.6	8.7	10.8	8.0	8.0	21.9	15.4
Jul 11	7.7	8.7	4.4	4.0	9.4	10.8	10.6	12.5	19.0	20.5	24.8	24.4	21.8	24.3	19.6	22.2	18.5	13.9	10.7	6.4	4.1	13.4	13.3	4.0	4.0	24.8	13.7
Jul 12	7.4	5.4	8.8	9.4	8.1	8.5	9.5	13.5	14.0	12.3	15.3	16.6	15.9	15.4	**C**	**C**	**C**	14.3	12.9	13.2	9.1	9.7	7.5	7.5	5.4	16.6	11.2
Jul 13	8.1	12.3	5.7	4.5	8.9	9.6	11.7	12.9	15.7	21.4	24.2	25.7	25.4	23.9	24.0	**27.1**	24.6	25.4	23.7	17.1	17.2	14.6	14.1	12.5	4.5	**27.1**	**17.1**
Jul 14	11.3	11.9	10.8	8.7	5.6	4.2	8.2	12.1	15.3	16.0	17.0	18.6	22.8	21.5	20.0	20.4	21.9	21.5	18.3	12.9	5.6	4.8	2.8	3.0	2.8	22.8	13.1
Jul 15	5.4	5.8	3.8	1.7	7.0	5.2	8.5	9.2	10.0	11.7	8.8	8.4	14.7	13.4	9.9	7.5	9.0	5.2	5.7	7.9	6.0	2.3	2.7	2.4	1.7	14.7	7.2
Jul 16	2.0	2.9	5.4	12.5	1.6	4.9	8.4	9.7	14.3	11.9	14.8	16.3	15.8	17.3	15.6	17.7	16.9	16.2	14.1	13.7	8.3	7.6	5.7	5.2	1.6	17.7	10.8
Jul 17	5.2	8.4	7.6	7.4	5.0	4.0	5.3	8.0	10.4	11.6	15.2	15.2	16.4	17.9	17.1	16.2	15.5	16.1	11.8	9.0	6.1	5.0	5.6	6.0	4.0	17.9	10.3
Jul 18	6.2	5.0	5.6	3.3	2.9	5.5	8.7	12.2	14.9	14.4	14.4	15.1	16.4	16.8	16.7	17.0	16.5	18.7	15.4	19.1	14.7	12.9	12.9	15.2	2.9	19.1	12.5
Jul 19	9.3	16.5	16.4	15.1	15.9	18.8	19.5	21.0	22.9	19.7	18.7	18.0	11.4	14.7	20.9	13.7	11.4	17.1	15.7	8.8	4.7	5.1	5.6	7.4	4.7	22.9	14.5
Jul 20	8.8	6.8	7.6	8.7	8.9	11.0	11.4	11.1	15.2	16.3	14.5	13.0	10.1	11.7	11.8	12.4	13.2	14.2	13.2	9.4	8.9	9.6	7.8	8.3	6.8	16.3	11.0
Jul 21	9.7	10.0	8.7	4.7	3.1	3.1	6.3	8.4	10.4	14.8	16.9	13.6	10.3	15.2	14.7	13.0	12.3	10.1	10.4	6.4	3.6	2.6	3.7	4.3	2.6	16.9	9.0
Jul 22	6.4	4.6	3.6	3.8	4.6	3.7	3.7	1.6	3.7	3.5	3.4	2.1	6.1	3.9	2.8	6.4	5.1	3.8	5.3	3.4	3.2	3.1	2.5	1.6	1.6	6.4	**3.8**
Jul 23	0.5	0.6	2.1	3.0	2.0	4.2	5.4	4.1	9.2	10.0	10.9	14.5	15.1	12.5	10.7	12.4	10.1	11.4	8.2	6.1	4.0	4.2	6.8	4.2	0.5	15.1	7.2
Jul 24	1.0	3.4	4.1	12.1	9.6	8.9	9.0	9.7	6.7	4.1	3.4	3.5	5.5	6.8	10.7	7.8	7.1	4.5	12.6	8.2	6.3	7.4	8.3	5.6	1.0	12.6	6.9
Jul 25	4.7	5.3	4.3	2.2	1.2	0.5	2.0	2.8	2.9	3.2	3.2	6.3	6.0	6.0	11.0	7.8	8.3	8.1	7.2	7.2	4.2	2.8	1.9	3.1	0.5	11.0	4.7
Jul 26	4.4	4.8	5.1	5.0	4.7	2.7	1.4	2.9	3.7	8.3	7.9	8.9	9.0	9.7	7.1	6.3	11.4	8.7	5.6	3.3	3.2	4.2	1.0	3.8	1.0	11.4	5.5
Jul 27	1.8	3.2	2.8	2.3	1.0	2.8	0.6	1.6	3.4	3.6	5.5	6.9	5.9	6.6	9.2	10.1	10.7	8.5	8.0	5.5	1.8	1.2	3.4	1.5	0.6	10.7	4.5
Jul 28	0.6	2.6	1.2	0.3	0.8	2.5	3.8	6.7	8.4	10.8	10.6	10.1	11.2	17.0	15.6	13.1	13.3	17.1	16.0	12.8	9.4	6.2	6.5	5.1	0.3	17.1	8.4
Jul 29	12.6	13.1	12.1	10.8	7.2	11.2	9.0	10.1	8.4	7.3	7.1	7.9	7.9	8.5	7.1	5.2	7.2	8.2	8.4	8.7	9.3	8.5	8.2	9.0	5.2	13.1	8.9
Jul 30	10.1	12.1	10.4	9.3	7.5	7.1	7.7	9.4	7.9	6.0	4.0	2.5	1.9	7.3	6.0	6.6	9.3	12.1	12.4	9.9	5.3	2.9	2.1	2.2	1.9	12.4	7.2
Jul 31	4.7	5.7	6.3	5.6	4.9	4.6	5.1	6.4	7.3	5.6	6.4	7.2	7.2	9.2	4.0	3.7	8.3	10.1	8.4	6.4	6.7	7.7	7.0	5.5	3.7	10.1	6.4
Diurnal Maximum	14	17	16	15	16	19	20	21	23	23	25	26	25	24	24	27	25	25	24	19	17	17	18	16			
Diurnal Average	6.1	7.0	6.3	6.3	5.9	6.3	7.4	8.8	10.4	11.1	11.7	11.5	11.6	12.6	12.3	12.3	12.4	12.0	10.8	8.9	6.7	6.2	6.2	5.8			

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

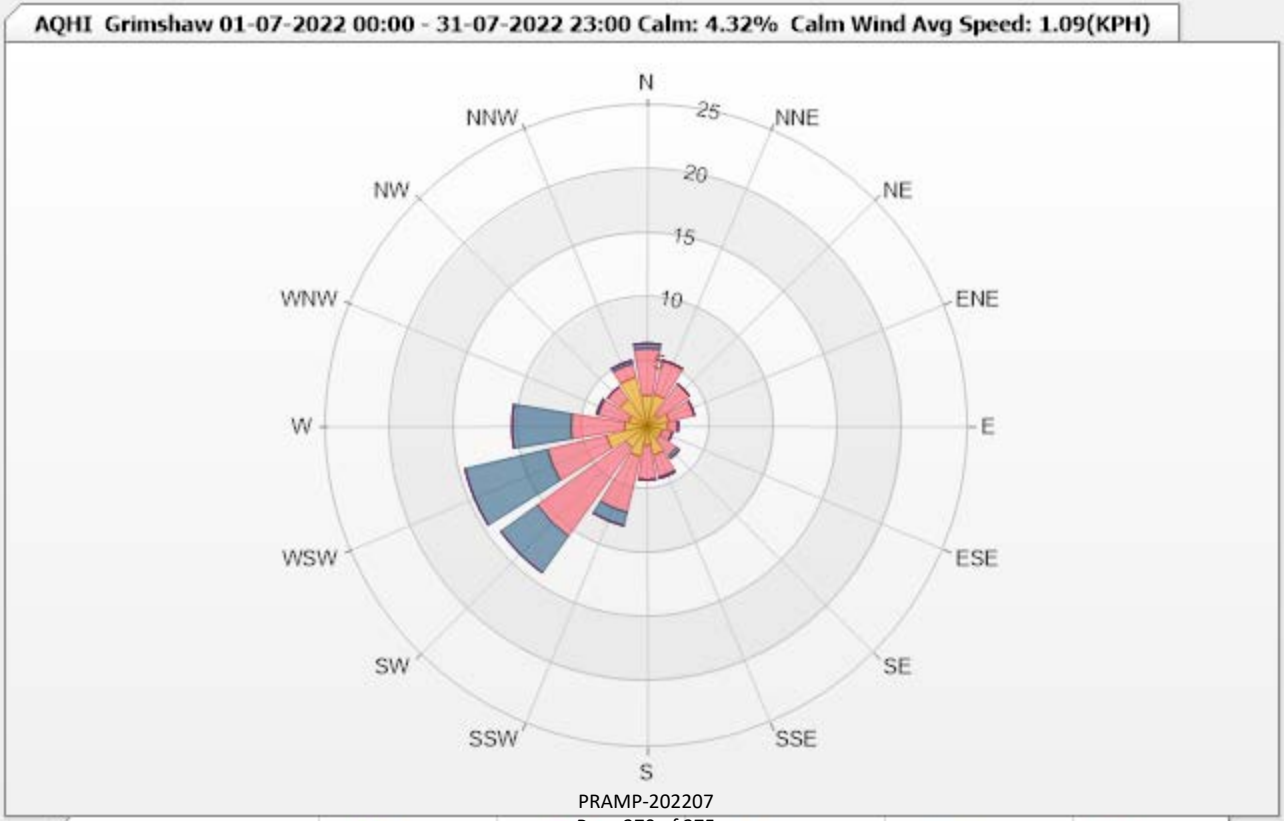
Daily Average is shown "-" if minimum data completeness criteria of 75% or 18 hours per day is not met.
Monthly Average is shown "-" if minimum data completeness criteria of 75% of days per month is not met.

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



Wind: AQHI Grimshaw Monitor: WDS [KPH] Monthly: 07-2022 Type: WindRose Direction: Blowing From (Wind Frequency) Based On 1 Hr.
Calm: 4.32% Valid Data: 99.60%

Direction	1.8-6.0	6.0-15.0	15.0-29.0	29.0-39.0	>39.0	Total
N	2.43	3.64	0.4	0	0	6.47
NNE	2.56	2.7	0	0	0	5.26
NE	1.08	2.97	0	0	0	4.05
ENE	1.75	2.02	0	0	0	3.77
E	1.62	0.81	0	0	0	2.43
ESE	1.21	0.81	0	0	0	2.02
SE	1.21	1.62	0.27	0	0	3.1
SSE	2.29	1.75	0.13	0	0	4.17
S	1.48	2.7	0	0	0	4.18
SSW	2.43	4.45	1.08	0	0	7.96
SW	2.02	8.5	3.51	0	0	14.03
WSW	3.24	4.72	6.61	0	0	14.57
W	1.75	4.18	4.59	0	0	10.52
WNW	1.48	2.43	0.13	0	0	4.04
NW	2.56	1.21	0	0	0	3.77
NNW	3.91	1.08	0.27	0	0	5.26
Summary	33.02	45.59	16.99	0	0	95.6


AQHI Grimshaw 01-07-2022 00:00 - 31-07-2022 23:00 Calm: 4.32% Calm Wind Avg Speed: 1.09(KPH)
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
25
20
15
10
% Icon Classes (KPH)
33 1.8-6.0
46 6.0-15.0
17 15.0-29.0
0 29.0-39.0
0 >39.0

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - July 2022

Summary of Hourly Averages

WIND DIRECTION (VWD) in sector

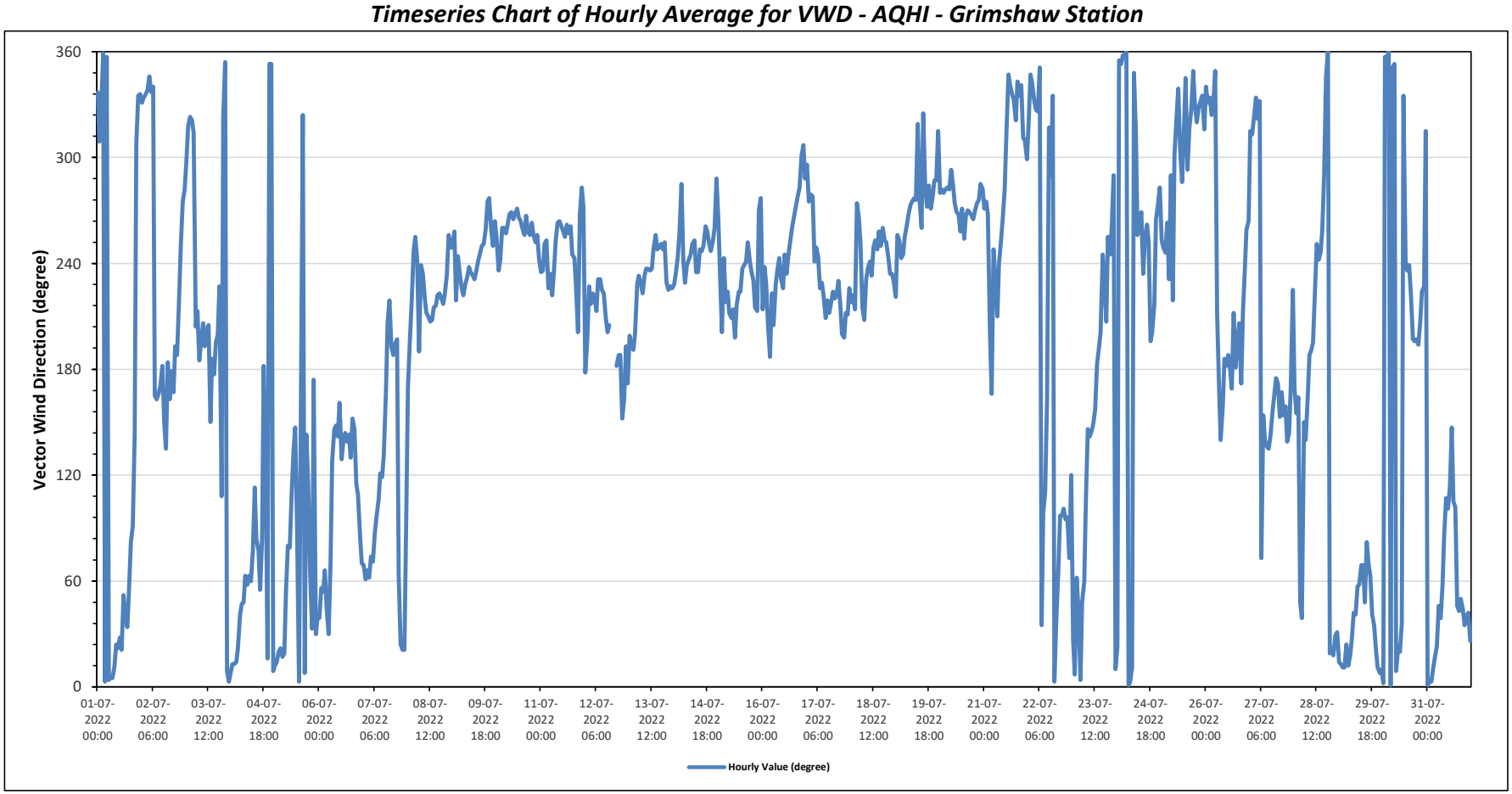
Monthly Average: 252 (WSW) degree

Hours in Service:	744
Hours of Data:	741
Hours of Missing Data:	0
Hours of Calibration:	3
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
Jul 1	NNW	NW	NNW	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	E	E	SE	NW	NNW	NNW	13	NNE
Jul 2	NNW	NNW	NNW	NNW	NNW	NNW	NNW	SSE	SSE	SSE	S	S	SSE	SE	S	SSE	S	SSE	S	S	SW	WSW	W	W	211	SSW
Jul 3	WNW	NW	NW	NW	NW	SSW	SSW	S	SSW	SSW	S	SSW	SSW	SSE	S	S	SSW	SSW	SW	ESE	NW	N	N	N	228	SW
Jul 4	N	NNE	NNE	NNE	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ESE	E	ENE	NE	E	S	ESE	NNE	N	N	N	48	NE
Jul 5	NNE	NNE	NNE	NNE	NNE	NNE	NE	E	ENE	ESE	SE	SE	E	N	SSE	NW	N	SE	ESE	ENE	NNE	S	NNE	NE	58	ENE
Jul 6	NE	NE	NE	ENE	NE	NNE	ENE	SE	SE	SE	SE	SSE	SE	SE	SE	SE	SE	SE	SSE	SE	ESE	ESE	E	ENE	110	ESE
Jul 7	ENE	ENE	ENE	ENE	ENE	ENE	E	E	ESE	ESE	ESE	SE	SSE	SSW	SW	S	S	SSW	SSW	ENE	NNE	NNE	NNE	E	103	ESE
Jul 8	SSE	SSW	SW	WSW	WSW	WSW	S	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	222	SW
Jul 9	WSW	WSW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	W	244	WSW
Jul 10	WSW	SW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	WSW	WSW	W	WSW	WSW	W	WSW	WSW	WSW	WSW	259	WSW
Jul 11	SW	SW	WSW	WSW	SW	SW	SW	SW	WSW	W	W	W	WSW	WSW	W	WSW	W	WSW	WSW	SW	SSW	W	W	W	249	WSW
Jul 12	S	SSW	SW	SW	SW	SW	SSW	SW	SW	SW	SW	SSW	SSW	SSW	C	C	C	S	S	S	SSE	SSE	S	S	202	SSW
Jul 13	SSW	S	S	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	231	SW
Jul 14	SW	SW	WSW	WSW	WNW	WSW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WNW	249	WSW
Jul 15	W	SW	SSW	WSW	SW	SW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	W	W	230	SW
Jul 16	SSW	SW	SW	SSW	S	SW	SSW	SW	SW	WSW	SW	SW	WSW	SW	WSW	WSW	W	W	W	W	W	WNW	NW	WNW	245	WSW
Jul 17	WNW	W	W	W	WSW	WSW	WSW	SW	SW	SW	SSW	SW	SSW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SW	230	SW
Jul 18	SW	SW	SSW	W	W	WSW	SSW	SSW	SW	SW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	241	WSW
Jul 19	SW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	NW	W	WSW	NW	WNW	W	WNW	W	W	WNW	WNW	NW	273	W
Jul 20	W	W	W	W	W	W	WNW	WNW	W	W	W	WSW	W	WSW	W	W	W	W	W	W	W	W	WNW	W	274	W
Jul 21	W	W	W	SSW	SSE	WSW	SW	SSW	WSW	WSW	W	W	NW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NW	NW	WNW	289	WNW
Jul 22	NW	NNW	NNW	NNW	NW	NW	N	NE	E	ESE	SSE	NW	WNW	NNW	N	NE	ENE	E	E	E	E	E	ENE	ESE	35	NE
Jul 23	NNE	N	ENE	NE	N	NE	ENE	ESE	SE	SE	SE	SSE	SSE	S	S	SSW	WSW	SW	SSW	WSW	WSW	WSW	WNW	N	164	SSE
Jul 24	NNE	N	N	N	N	N	N	N	NNE	NNW	NW	WSW	WSW	W	SW	WSW	W	WSW	SSW	SSW	SW	W	W	W	299	WNW
Jul 25	WSW	WSW	WSW	W	SW	WNW	SW	WNW	NW	NNW	WNW	WNW	NW	NNW	WNW	NW	NW	NNW	NNW	NW	NNW	NNW	NNW	NW	302	WNW
Jul 26	NNW	NNW	NNW	NW	NNW	NNW	SSW	S	SE	SSE	S	S	S	S	SSE	SSW	S	SSW	SSW	S	SSW	SW	WSW	W	214	SSW
Jul 27	NW	NW	NW	NNW	NW	NNW	ENE	SSE	SE	SE	SE	SE	SSE	SSE	S	S	SSE	SSE	SSE	SSE	SE	SE	SSE	SW	160	SSE
Jul 28	SSE	SSE	SSE	NE	NE	SSE	SE	SSE	S	S	SSW	SW	WSW	WSW	WSW	WSW	WNW	NNW	N	NNE	NNE	NNE	NNE	NNE	192	S
Jul 29	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	NE	E	ENE	ENE	NE	NE	NNE	NNE	N	N	35	NE
Jul 30	N	N	N	N	N	N	N	N	NNE	NNE	NE	NNW	WSW	SW	WSW	SW	SSW	SSW	SSW	SSW	SSW	SW	SW	NW	302	WNW
Jul 31	N	N	N	N	NNE	NNE	NE	NE	ENE	E	ESE	E	ESE	SE	ESE	E	NE	NE	NE	NE	NE	NE	NE	NNE	51	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
Vector Wind Direction (degree)
360
300
240
180
120
60
0
01-07-2022 00:00
02-07-2022 06:00
03-07-2022 12:00
04-07-2022 18:00
06-07-2022 00:00
07-07-2022 06:00
08-07-2022 12:00
09-07-2022 18:00
11-07-2022 00:00
12-07-2022 06:00
13-07-2022 12:00
14-07-2022 18:00
16-07-2022 00:00
17-07-2022 06:00
18-07-2022 12:00
19-07-2022 18:00
21-07-2022 00:00
22-07-2022 06:00
23-07-2022 12:00
24-07-2022 18:00
26-07-2022 00:00
27-07-2022 06:00
28-07-2022 12:00
29-07-2022 18:00
31-07-2022 00:00
Hourly Value (degree)

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PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - July 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	27.1	kph	on July 13 at hour 15	Hours in Service:	744
Maximum Daily Value:	17.1	kph	on July 13	Hours of Data:	741
Minimum Hourly Value:	0.2	kph	on July 2 at hour 6	Hours of Missing Data:	0
Minimum Daily Value:	3.8	kph	on July 22	Hours of Calibration:	3
Monthly Average:	9.0	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 252 (WSW) degree

Day	Hourly Period Starting at (MST)																						Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 1	4.1	9.0	7.2	11.3	14.8	15.2	15.4	11.7	14.4	14.0	9.9	9.3	9.6	9.6	9.7	9.7	7.8	6.5	3.0	1.2	0.5	2.1	3.3	3.9	0.5	15.4	8.5
	NNW	NW	NNW	N	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	NE	NE	NE	NE	E	E	SE	NW	NNW	NNW			
Jul 2	4.7	4.8	4.5	4.9	5.3	2.2	**0.2**	2.4	2.9	3.5	5.3	3.7	2.7	2.5	1.5	4.7	4.5	4.7	2.9	6.8	5.7	4.3	5.2	5.0	**0.2**	6.8	4.0
	NNW	NNW	NNW	NNW	NNW	NNW	NNW	SSE	SSE	SSE	S	S	SSE	SE	S	SSE	S	SSE	S	S	SW	WSW	W	W			
Jul 3	4.8	4.5	4.2	1.8	1.5	0.4	3.5	3.3	6.5	7.1	6.8	4.1	3.3	4.9	5.9	6.6	6.2	5.2	3.9	4.1	2.3	4.3	4.5	4.5	0.4	7.1	4.3
	WNW	NW	NW	NW	NW	SSW	SSW	S	SSW	SSW	S	SSW	SSW	SSE	S	S	SSW	SSW	SW	ESE	NW	N	N	N			
Jul 4	4.9	6.1	5.4	6.0	5.5	7.8	8.4	8.7	9.9	12.1	10.6	7.8	7.3	7.7	9.2	12.5	11.3	6.2	6.9	0.7	3.2	2.9	2.0	5.0	0.7	12.5	7.0
	N	NNE	NNE	NNE	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ESE	E	ENE	NE	E	S	ESE	NNE	N	N	N			
Jul 5	5.2	5.6	5.1	5.2	5.2	4.7	6.1	7.0	6.1	5.1	6.4	2.9	5.1	9.3	4.9	1.9	3.4	4.5	4.3	8.3	5.5	1.0	3.7	3.7	1.0	9.3	5.0
	NNE	NNE	NNE	NNE	NNE	NNE	NE	E	ENE	ESE	SE	SE	E	N	SSE	NW	N	SE	ESE	ENE	NNE	S	NNE	NE			
Jul 6	3.8	4.4	3.6	3.0	1.7	1.8	2.2	4.0	5.9	8.0	8.9	5.8	6.8	9.5	15.4	13.2	15.4	11.4	13.4	9.5	3.6	4.1	3.7	3.4	1.7	15.4	6.8
	NE	NE	NE	ENE	NE	NNE	ENE	SE	SE	SE	SE	SSE	SE	SE	SE	SE	SE	SE	SSE	SE	ESE	ESE	E	ENE			
Jul 7	3.5	4.5	5.2	5.8	5.9	5.0	6.0	6.4	6.3	8.8	7.6	7.4	10.2	11.2	11.0	12.4	12.3	11.0	5.5	7.7	7.0	2.5	2.1	1.4	1.4	12.4	6.9
	ENE	ENE	ENE	ENE	ENE	ENE	E	E	ESE	ESE	ESE	SE	SSE	SSW	SW	S	S	SSW	SSW	ENE	NNE	NNE	NNE	E			
Jul 8	2.8	4.6	5.7	4.7	4.0	1.4	3.5	8.4	12.7	12.5	14.2	16.1	18.1	17.4	15.1	17.1	20.8	20.9	17.0	13.2	8.4	9.3	9.7	12.7	1.4	20.9	11.3
	SSE	SSW	SW	WSW	WSW	WSW	S	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW			
Jul 9	13.7	10.6	7.1	4.6	8.6	11.0	13.6	17.9	18.2	22.7	23.9	24.2	21.5	22.5	23.4	22.3	22.3	17.8	11.8	12.1	17.1	17.2	17.7	16.2	4.6	24.2	16.6
	WSW	WSW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	W			
Jul 10	14.0	12.3	11.9	13.9	11.3	11.4	15.1	15.9	16.5	15.9	20.7	19.5	18.5	17.3	18.9	21.9	16.4	20.1	21.6	18.2	11.6	8.7	10.8	8.0	8.0	21.9	15.4
	WSW	SW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	W	W	WSW	WSW	W	WSW	WSW	W	WSW	WSW	WSW	WSW			
Jul 11	7.7	8.7	4.4	4.0	9.4	10.8	10.6	12.5	19.0	20.5	24.8	24.4	21.8	24.3	19.6	22.2	18.5	13.9	10.7	6.4	4.1	13.4	13.3	4.0	4.0	24.8	13.7
	SW	SW	WSW	WSW	SW	SW	SW	SW	WSW	W	W	W	WSW	WSW	W	WSW	W	WSW	WSW	SW	SSW	W	W	W			
Jul 12	7.4	5.4	8.8	9.4	8.1	8.5	9.5	13.5	14.0	12.3	15.3	16.6	15.9	15.4	**C**	**C**	**C**	14.3	12.9	13.2	9.1	9.7	7.5	7.5	5.4	16.6	11.2
	S	SSW	SW	SW	SW	SW	SSW	SW	SW	SW	SW	SSW	SSW	SSW	**C**	**C**	**C**	S	S	S	SSE	SSE	S	S			
Jul 13	8.1	12.3	5.7	4.5	8.9	9.6	11.7	12.9	15.7	21.4	24.2	25.7	25.4	23.9	24.0	**27.1**	24.6	25.4	23.7	17.1	17.2	14.6	14.1	12.5	4.5	**27.1**	**17.1**
	SSW	S	S	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW			
Jul 14	11.3	11.9	10.8	8.7	5.6	4.2	8.2	12.1	15.3	16.0	17.0	18.6	22.8	21.5	20.0	20.4	21.9	21.5	18.3	12.9	5.6	4.8	2.8	3.0	2.8	22.8	13.1
	SW	SW	WSW	WSW	WNW	WSW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WNW			
Jul 15	5.4	5.8	3.8	1.7	7.0	5.2	8.5	9.2	10.0	11.7	8.8	8.4	14.7	13.4	9.9	7.5	9.0	5.2	5.7	7.9	6.0	2.3	2.7	2.4	1.7	14.7	7.2
	W	SW	SSW	WSW	SW	SW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	W	W			
Jul 16	2.0	2.9	5.4	12.5	1.6	4.9	8.4	9.7	14.3	11.9	14.8	16.3	15.8	17.3	15.6	17.7	16.9	16.2	14.1	13.7	8.3	7.6	5.7	5.2	1.6	17.7	10.8
	SSW	SW	SW	SSW	S	SW	SSW	SW	SW	WSW	SW	SW	WSW	SW	WSW	WSW	W	W	W	W	W	WNW	NW	WNW			
Jul 17	5.2	8.4	7.6	7.4	5.0	4.0	5.3	8.0	10.4	11.6	15.2	15.2	16.4	17.9	17.1	16.2	15.5	16.1	11.8	9.0	6.1	5.0	5.6	6.0	4.0	17.9	10.3
	WNW	W	W	W	WSW	WSW	WSW	SW	SW	SW	SSW	SW	SSW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SSW	SW			
Jul 18	6.2	5.0	5.6	3.3	2.9	5.5	8.7	12.2	14.9	14.4	14.4	15.1	16.4	16.8	16.7	17.0	16.5	18.7	15.4	19.1	14.7	12.9	12.9	15.2	2.9	19.1	12.5
	SW	SW	SSW	W	W	WSW	SSW	SSW	SW	SW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW			
Jul 19	9.3	16.5	16.4	15.1	15.9	18.8	19.5	21.0	22.9	19.7	18.7	18.0	11.4	14.7	20.9	13.7	11.4	17.1	15.7	8.8	4.7	5.1	5.6	7.4	4.7	22.9	14.5
	SW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	W	NW	W	WSW	NW	WNW	W	WNW	W	W	WNW	WNW	NW			
Jul 20	8.8	6.8	7.6	8.7	8.9	11.0	11.4	11.1	15.2	16.3	14.5	13.0	10.1	11.7	11.8	12.4	13.2	14.2	13.2	9.4	8.9	9.6	7.8	8.3	6.8	16.3	11.0
	W	W	W	W	W	W	WNW	WNW	W	W	W	WSW	W	WSW	W	W	W	W	W	W	W	W	WNW	W			

peace river area monitoring program
pramp

PEACE RIVER AREA MONITORING PROGRAM

AQHI - Grimshaw Station - July 2022

Summary of Hourly Averages

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

WIND SPEED

Maximum Hourly Value:	27.1	kph	on July 13 at hour 15	Hours in Service:	744
Maximum Daily Value:	17.1	kph	on July 13	Hours of Data:	741
Minimum Hourly Value:	0.2	kph	on July 2 at hour 6	Hours of Missing Data:	0
Minimum Daily Value:	3.8	kph	on July 22	Hours of Calibration:	3
Monthly Average:	9.0	kph		Operational Uptime:	100

WIND DIRECTION

Monthly Average: 252 (WSW degree

Day	Hourly Period Starting at (MST)																							Daily Minimum	Daily Maximum	Daily Average
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
Jul 21	9.7	10.0	8.7	4.7	3.1	3.1	6.3	8.4	10.4	14.8	16.9	13.6	10.3	15.2	14.7	13.0	12.3	10.1	10.4	6.4	3.6	2.6	3.7	4.3	2.6	16.9	9.0
	W	W	W	SSW	SSE	WSW	SW	SSW	WSW	WSW	W	W	NW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NW	NW	WNW			
Jul 22	6.4	4.6	3.6	3.8	4.6	3.7	3.7	1.6	3.7	3.5	3.4	2.1	6.1	3.9	2.8	6.4	5.1	3.8	5.3	3.4	3.2	3.1	2.5	1.6	1.6	6.4	**3.8**
	NW	NNW	NNW	NNW	NW	NW	N	NE	E	ESE	SSE	NW	WNW	NNW	N	NE	ENE	E	E	E	E	E	ENE	ESE			
Jul 23	0.5	0.6	2.1	3.0	2.0	4.2	5.4	4.1	9.2	10.0	10.9	14.5	15.1	12.5	10.7	12.4	10.1	11.4	8.2	6.1	4.0	4.2	6.8	4.2	0.5	15.1	7.2
	NNE	N	ENE	NE	N	NE	ENE	ESE	SE	SE	SE	SSE	SSE	S	S	SSW	WSW	SW	SSW	WSW	WSW	WSW	WNW	N			
Jul 24	1.0	3.4	4.1	12.1	9.6	8.9	9.0	9.7	6.7	4.1	3.4	3.5	5.5	6.8	10.7	7.8	7.1	4.5	12.6	8.2	6.3	7.4	8.3	5.6	1.0	12.6	6.9
	NNE	N	N	N	N	N	N	N	NNE	NNW	NW	WSW	WSW	W	SW	WSW	W	WSW	SSW	SSW	SW	W	W	W			
Jul 25	4.7	5.3	4.3	2.2	1.2	0.5	2.0	2.8	2.9	3.2	3.2	6.3	6.0	6.0	11.0	7.8	8.3	8.1	7.2	7.2	4.2	2.8	1.9	3.1	0.5	11.0	4.7
	WSW	WSW	WSW	W	SW	WNW	SW	WNW	NW	NNW	WNW	WNW	NW	NNW	WNW	NW	NW	NNW	NNW	NW	NNW	NNW	NNW	NW			
Jul 26	4.4	4.8	5.1	5.0	4.7	2.7	1.4	2.9	3.7	8.3	7.9	8.9	9.0	9.7	7.1	6.3	11.4	8.7	5.6	3.3	3.2	4.2	1.0	3.8	1.0	11.4	5.5
	NNW	NNW	NNW	NW	NNW	NNW	SSW	S	SE	SSE	S	S	S	S	SSE	SSW	S	SSW	SSW	S	SSW	SW	WSW	W			
Jul 27	1.8	3.2	2.8	2.3	1.0	2.8	0.6	1.6	3.4	3.6	5.5	6.9	5.9	6.6	9.2	10.1	10.7	8.5	8.0	5.5	1.8	1.2	3.4	1.5	0.6	10.7	4.5
	NW	NW	NW	NNW	NW	NNW	ENE	SSE	SE	SE	SE	SE	SSE	SSE	S	S	SSE	SSE	SSE	SSE	SE	SE	SSE	SW			
Jul 28	0.6	2.6	1.2	0.3	0.8	2.5	3.8	6.7	8.4	10.8	10.6	10.1	11.2	17.0	15.6	13.1	13.3	17.1	16.0	12.8	9.4	6.2	6.5	5.1	0.3	17.1	8.4
	SSE	SSE	SSE	NE	NE	SSE	SE	SSE	S	S	SSW	SW	WSW	WSW	WSW	WSW	WNW	NNW	N	NNE	NNE	NNE	NNE	NNE			
Jul 29	12.6	13.1	12.1	10.8	7.2	11.2	9.0	10.1	8.4	7.3	7.1	7.9	7.9	8.5	7.1	5.2	7.2	8.2	8.4	8.7	9.3	8.5	8.2	9.0	5.2	13.1	8.9
	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	NE	E	ENE	ENE	NE	NE	NNE	NNE	N	N			
Jul 30	10.1	12.1	10.4	9.3	7.5	7.1	7.7	9.4	7.9	6.0	4.0	2.5	1.9	7.3	6.0	6.6	9.3	12.1	12.4	9.9	5.3	2.9	2.1	2.2	1.9	12.4	7.2
	N	N	N	N	N	N	N	N	NNE	NNE	NE	NNW	WSW	SW	WSW	SW	SSW	SSW	SSW	SSW	SSW	SW	SW	NW			
Jul 31	4.7	5.7	6.3	5.6	4.9	4.6	5.1	6.4	7.3	5.6	6.4	7.2	7.2	9.2	4.0	3.7	8.3	10.1	8.4	6.4	6.7	7.7	7.0	5.5	3.7	10.1	6.4
	N	N	N	N	NNE	NNE	NE	NE	ENE	E	ESE	E	ESE	SE	ESE	E	NE	NE	NE	NE	NE	NE	NE	NNE			

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

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

END OF REPORT

This page, 275 of 275, ends the July 2022 Monthly Ambient Air Quality Monitoring Report.

Peace River Area Monitoring Program

JULY 2022

Ambient Air Monitoring Calibration Report

- 842b STATION-

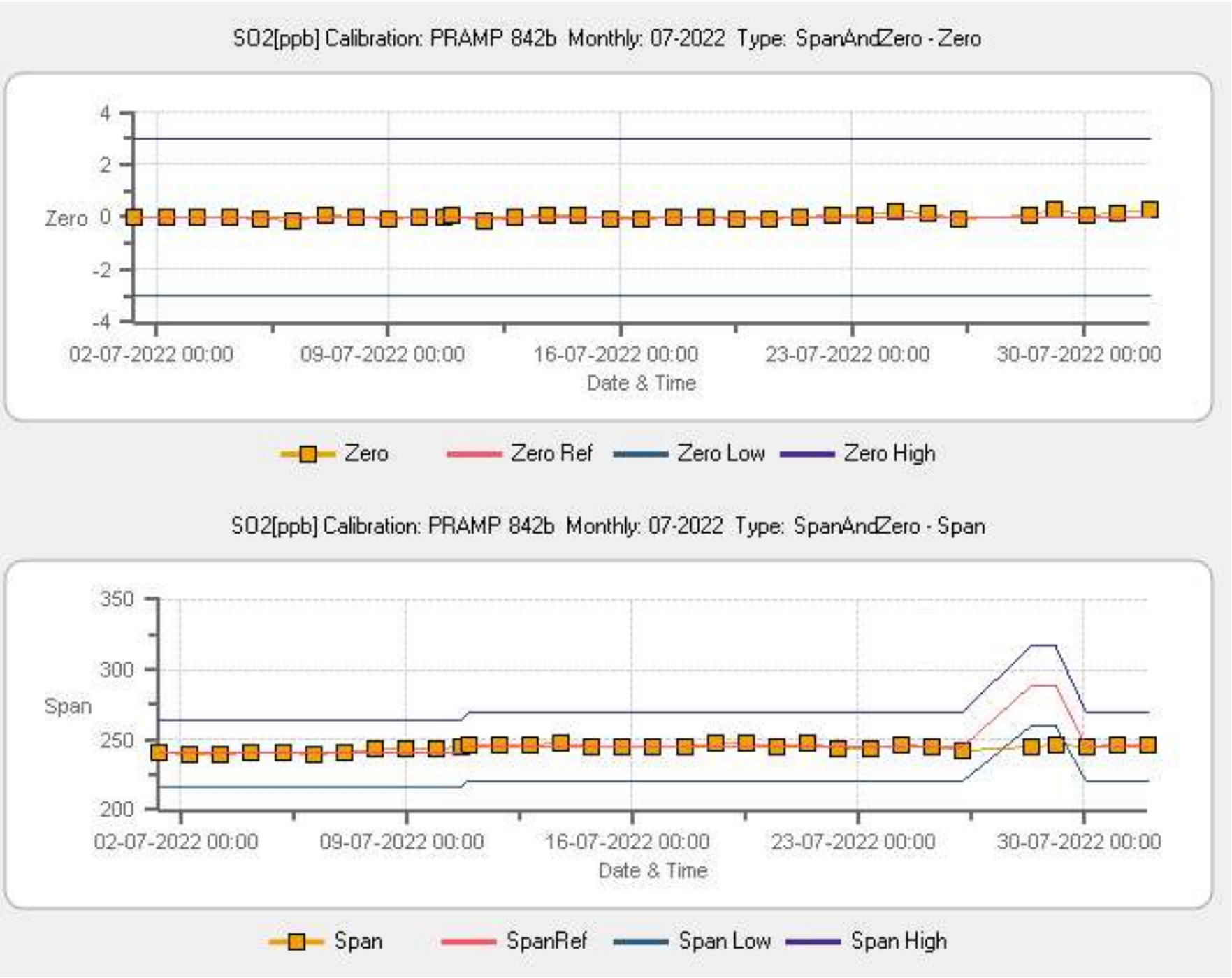
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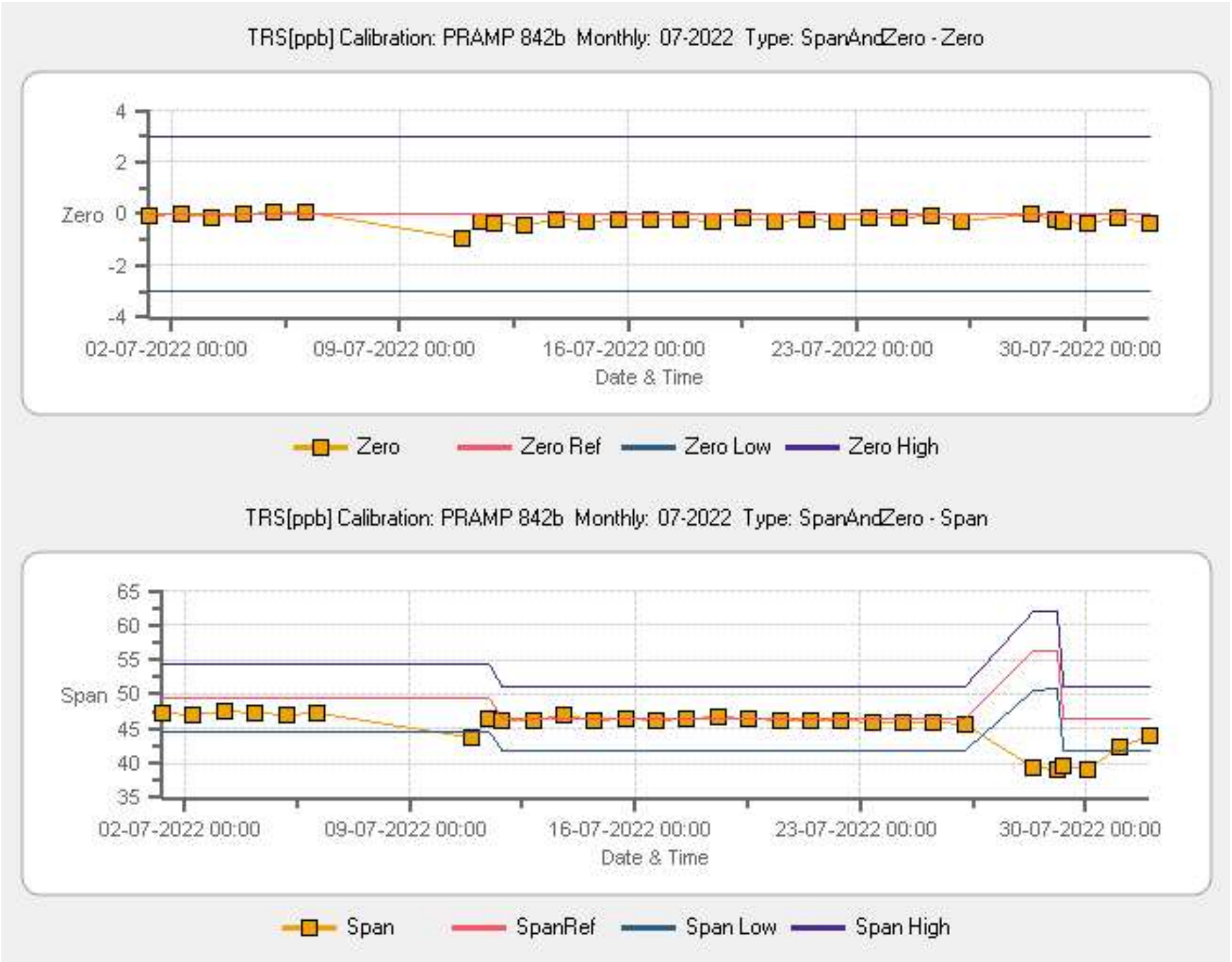
Operation and Maintenance:
Bureau Veritas Canada

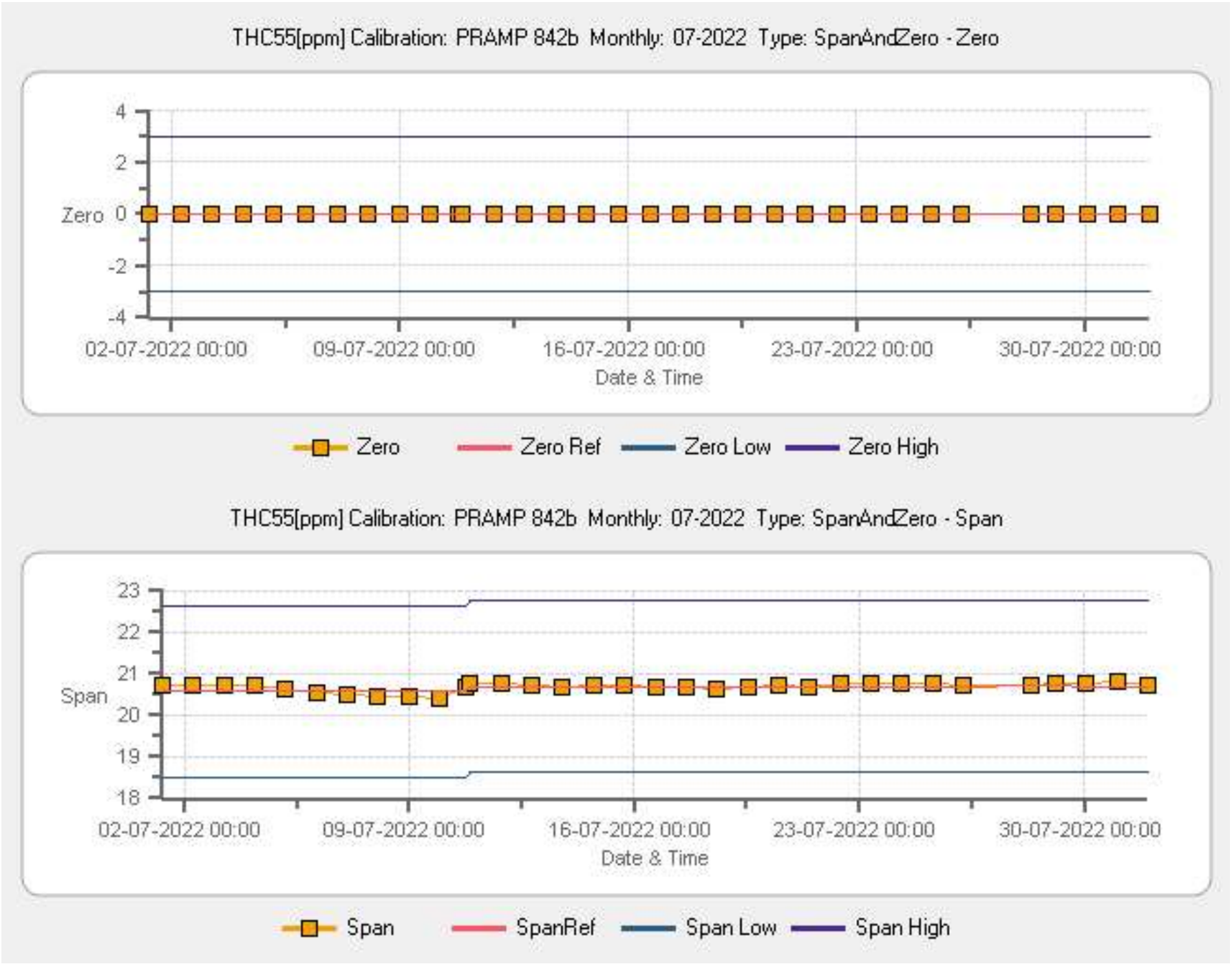
Data Validation and Report:
Bureau Veritas Canada

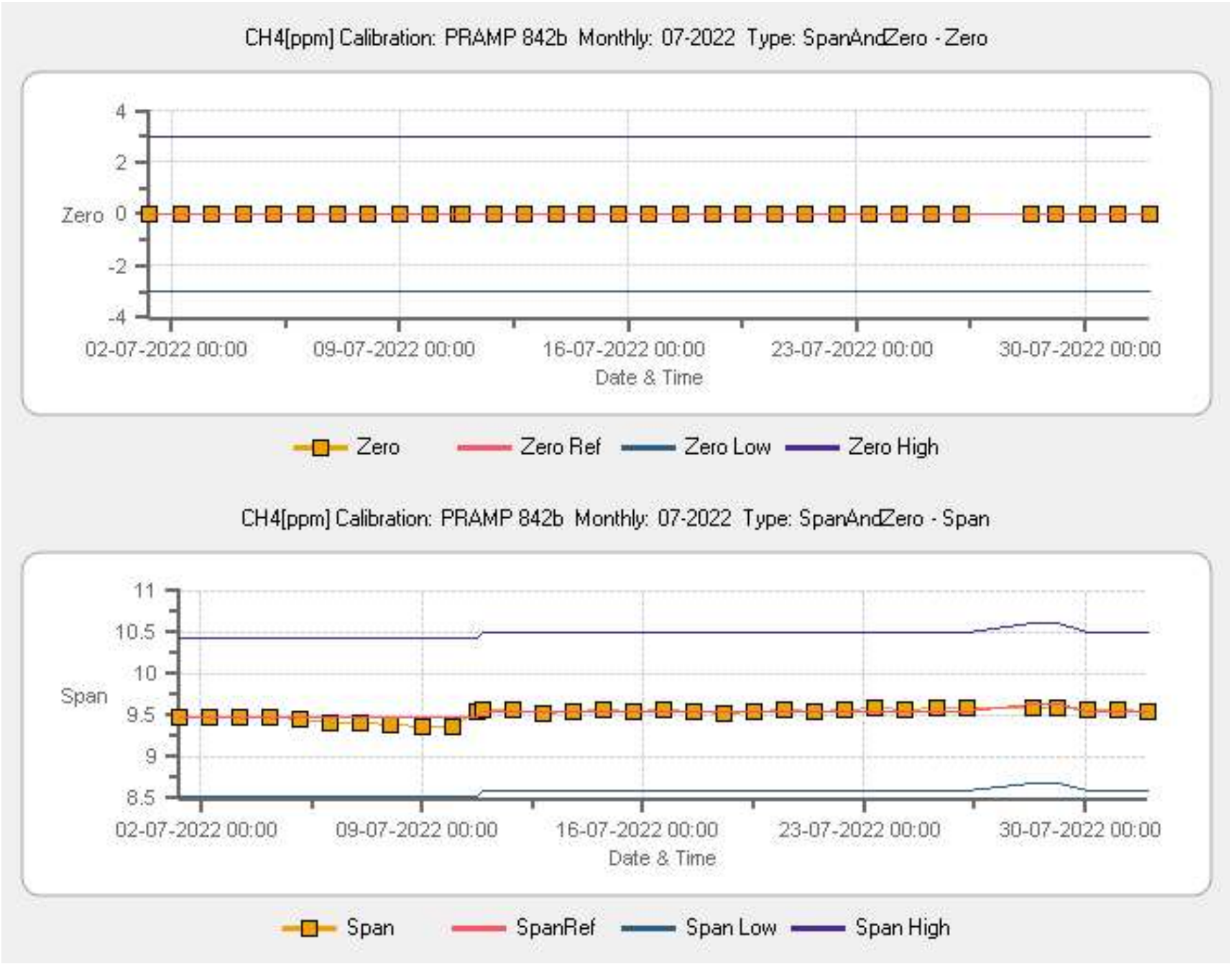
August 23, 2022

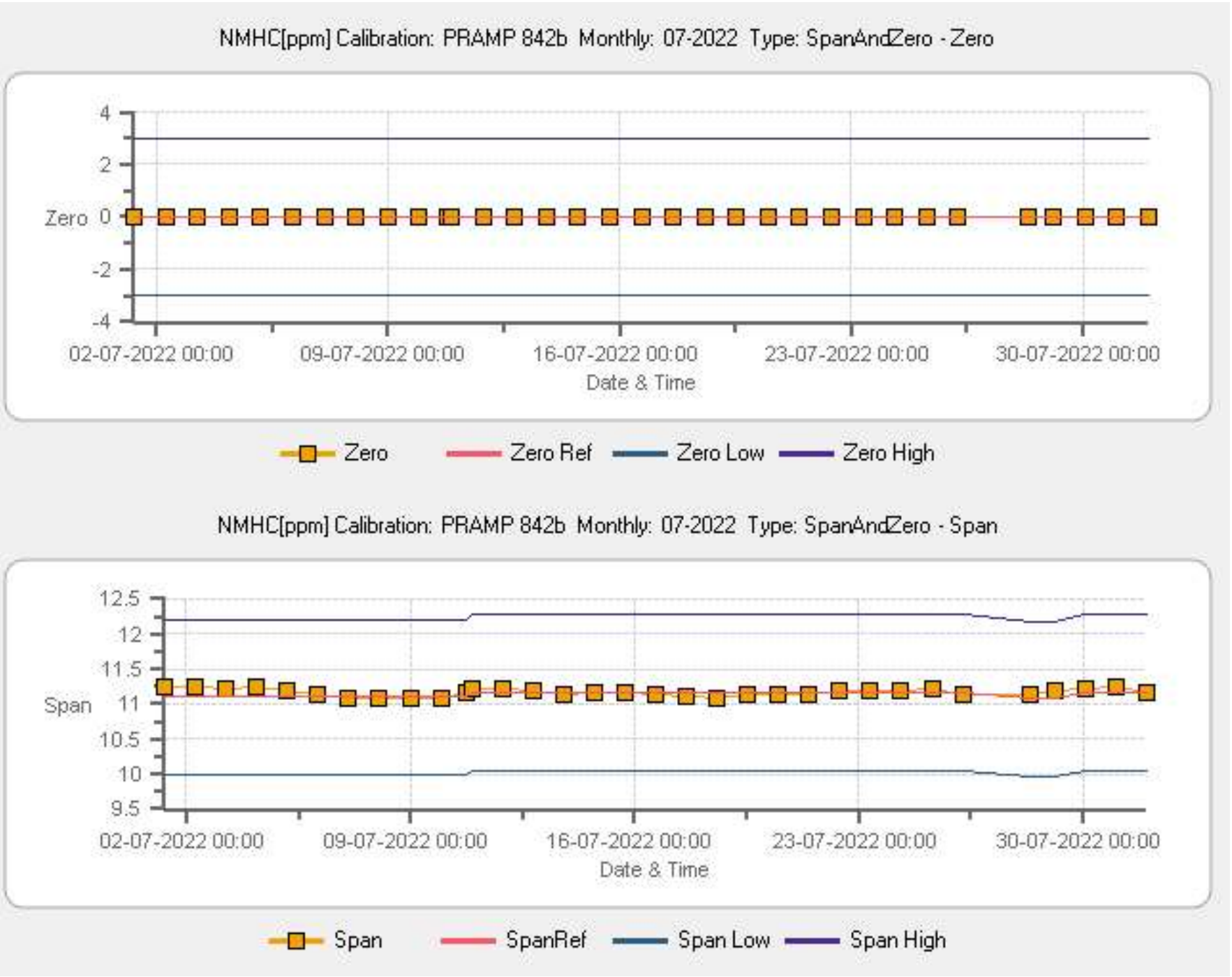
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS


SO2[ppb] Calibration: PRAMP 842b Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
SO2[ppb] Calibration: PRAMP 842b Monthly: 07-2022 Type: SpanAndZero - Span
350
300
Span
250
200
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


TRS[ppb] Calibration: PRAMP 842b Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: PRAMP 842b Monthly: 07-2022 Type: SpanAndZero - Span
65
60
55
Span 50
45
40
35
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


THC55[ppm] Calibration: PRAMP 842b Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: PRAMP 842b Monthly: 07-2022 Type: SpanAndZero - Span
23
22
21
Span
20
19
18
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


CH4[ppm] Calibration: PRAMP 842b Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: PRAMP 842b Monthly: 07-2022 Type: SpanAndZero - Span
11
10.5
10
Span
9.5
9
8.5
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


NMHC[ppm] Calibration: PRAMP 842b Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: PRAMP 842b Monthly: 07-2022 Type: SpanAndZero - Span
12.5
12
11.5
Span 11
10.5
10
9.5
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	10-Jul-2022	PREVIOUS CALIBRATION DATE:	08-Jun-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	24.1
LOCATION:	842b	BAROMETRIC (mBar):	946
PURPOSE	Routine	START TIME (MST):	09:50
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	16:10

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1200736629	FLOW (mL/min)	423
INITIAL		FINAL	
BKG/OFFSET	8	BKG/OFFSET	8.1
COEF/SLOPE	1.09	COEF/SLOPE	1.108
Expected (reference) Value	240.3	Expected (reference) Value	244.5

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL107286	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1910	LOW ID	n/a
EXPIRY DATE	02-Nov-2025	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		
4003		4003	0.00	0	0		
3941	60.58	4002	379.94	368.1	379.9	1.032	1.000
3969	30.24	4000	189.79	n/a	191.8	n/a	0.990
3986	14.36	4001	90.07	n/a	89.5	n/a	1.006

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.0%

COMMENTS:

Sample filter changed.
Zero and high point adjust delayed to allow TRS Scrubber beads to stabilize (SO2 runs in parallel with TRS).

SO2[ppb] Station: PRAMP 842b Daily: 10-07-2022 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	11-Jul-2022	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	21.4
LOCATION:	842b	BAROMETRIC (mBar):	948
PURPOSE	Install/Post-Repair	START TIME (MST):	08:23
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	11:30

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1200736630	FLOW (mL/min)	374
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	12.8
COEF/SLOPE	n/a	COEF/SLOPE	0.888
Expected (reference) Value	n/a	Expected (reference) Value	46.48

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
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):	450	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:	08:47	SO2 Conc (ppb)	380
END TIME:	09:05	Analyzer Response (ppb)	0.2

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4001		4001	0.00	n/a	0		
3966	33.12	3999	77.95	n/a	77.94	n/a	1.000
3983	16.16	3999	38.03	n/a	38.05	n/a	1.000
3991	8.11	3999	19.08	n/a	18.78	n/a	1.016

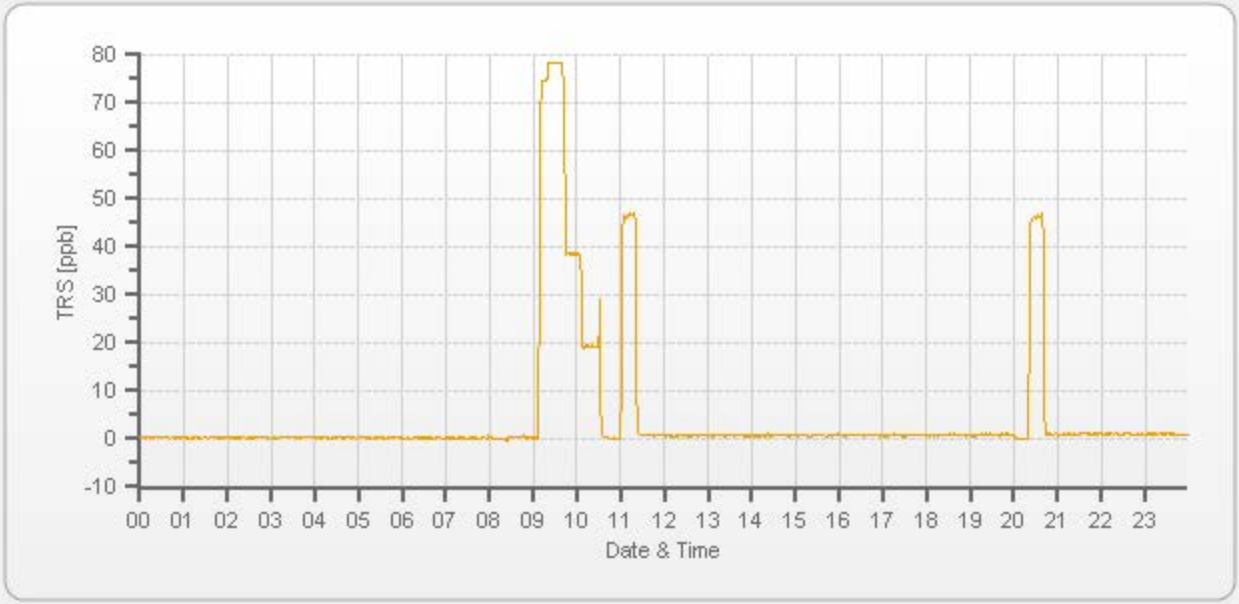
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Post-Repair calibration - passed.
TRS Converter CDNOVA CDN-101 #583.

TRS[ppb] Station: PRAMP 842b Daily: 11-07-2022 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	10-Jul-2022	PREVIOUS CALIBRATION DATE:	08-Jun-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	24.1
LOCATION:	842b	BAROMETRIC (mBar):	946
PURPOSE	Routine	START TIME (MST):	09:49
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	18:32

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1501663728	1040.1
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.999	0.999	0.999

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	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:	916	CYLINDER (psi):	1400		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
	9.48	11.10	20.57		9.54	11.16	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
2998		2998	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
2928	72.00	3000	14.59	13.40	27.99	14.54	13.35	27.89	14.75	13.38	28.13	1.004	1.004	1.004	0.989	1.001	0.995
2963	36.00	2999	7.30	6.70	14.00	n/a	n/a	n/a	7.16	6.63	13.79	n/a	n/a	n/a	1.019	1.011	1.015
2980	18.00	2998	3.65	3.35	7.00	n/a	n/a	n/a	3.48	3.28	6.76	n/a	n/a	n/a	1.049	1.022	1.036

LINEAR REGRESSION ANALYSIS:

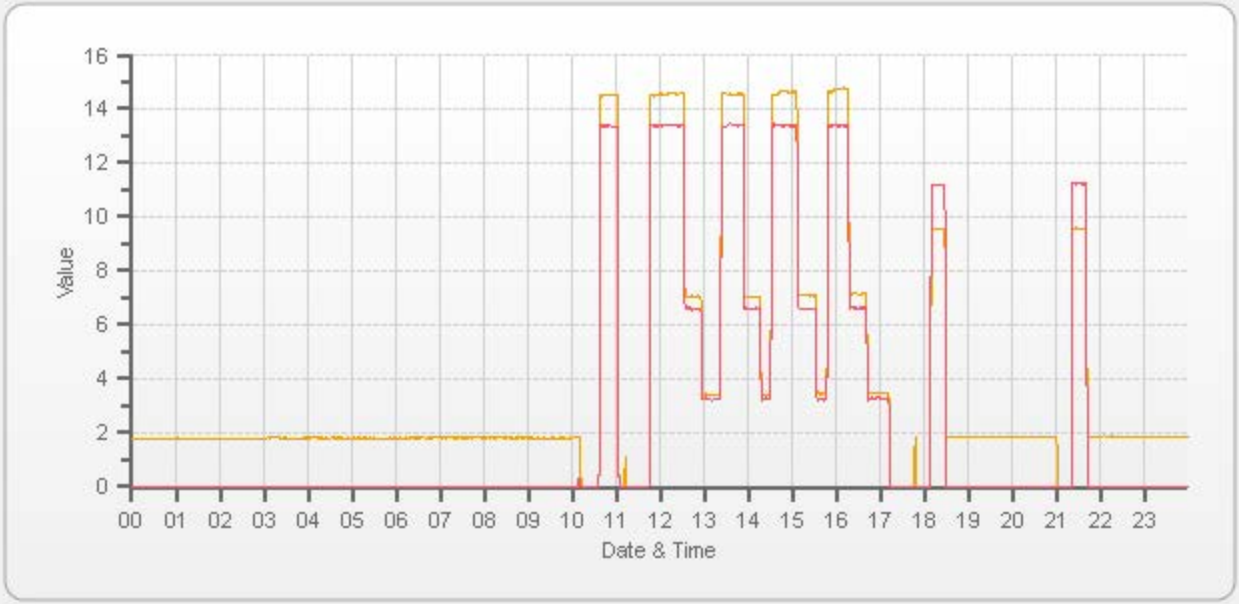
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.014	-0.6%
NMHC	1.000	1.000	-0.2%
THC	1.000	1.007	-0.4%

Comments:

Sample filter changed.
Multiple attempts required to obtain acceptable multi-point data. (CH4 non-linear)

Use Zero Chrom? **No**

Station: PRAMP 842b Daily: 10-07-2022 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	July 10, 2022
Technician:	Ferdinand Roy
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:	June 8, 2022	Channel offline =17:59-18:33, Audit 10 tip:18:10-18:33
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	yes	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

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

# of Tips	Data Logger Response (ml):	Manual Specification = +/- 0.1 ml
10	1.0	0.90

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	June 8, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 160348895 expires September 4, 2022
Reference Temperature (^{o}C):	20.5
Station - Ambient Temperature (^{o}C):	21.1
Temperature Difference (^{o}C):	-0.6

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	June 8, 2022	
Reference Barometer ID:	deltaCal #201587, Expire: November 1, 2022	
Reference Pressure - Units/Reading:	millibar	945.2557
Station Pressure - Units/Reading:	millibar	942.4
Pressure Tolerance +/- 15% of error:	803 - 1087	0.30%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	June 8, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 160348895 expires September 4, 2022	
Reference Hygrometer % RH- Reading:	49.02	
Station Hygrometer % RH- Reading:	48.30	
RH Tolerance +/- 15% of difference:	41.67 - 56.37	1.5%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	June 8, 2022	Previous check date:	June 8, 2022
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	SW
Wind speed on Data Logger (kph):	14.9	Wind Direction on Data Logger:	SW
		Wind Direction Pass/Fail?:	Pass

Comments

No issues. BP checked on July 22, 2022

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

JULY 2022

Ambient Air Monitoring Calibration Report

- 986c STATION-

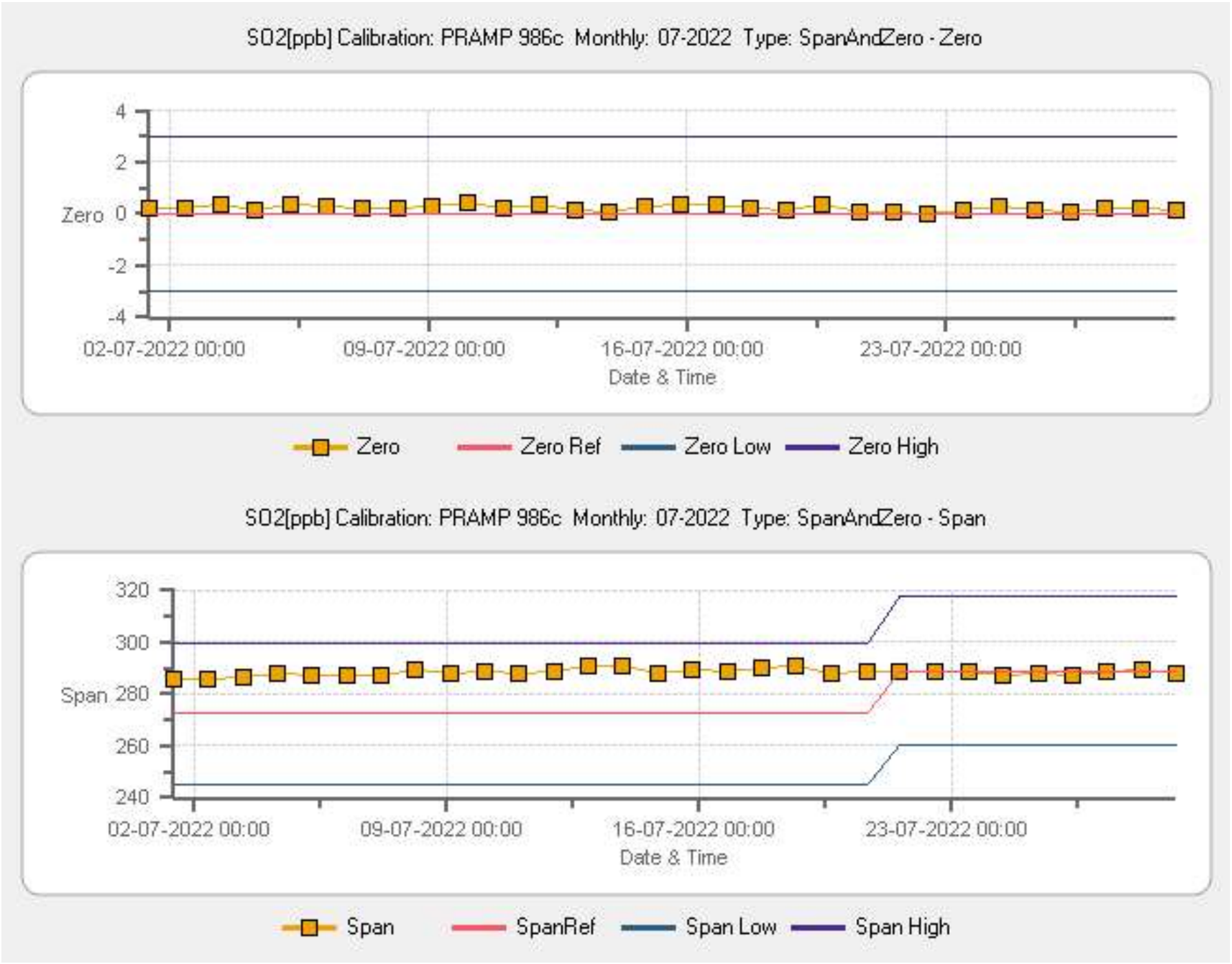
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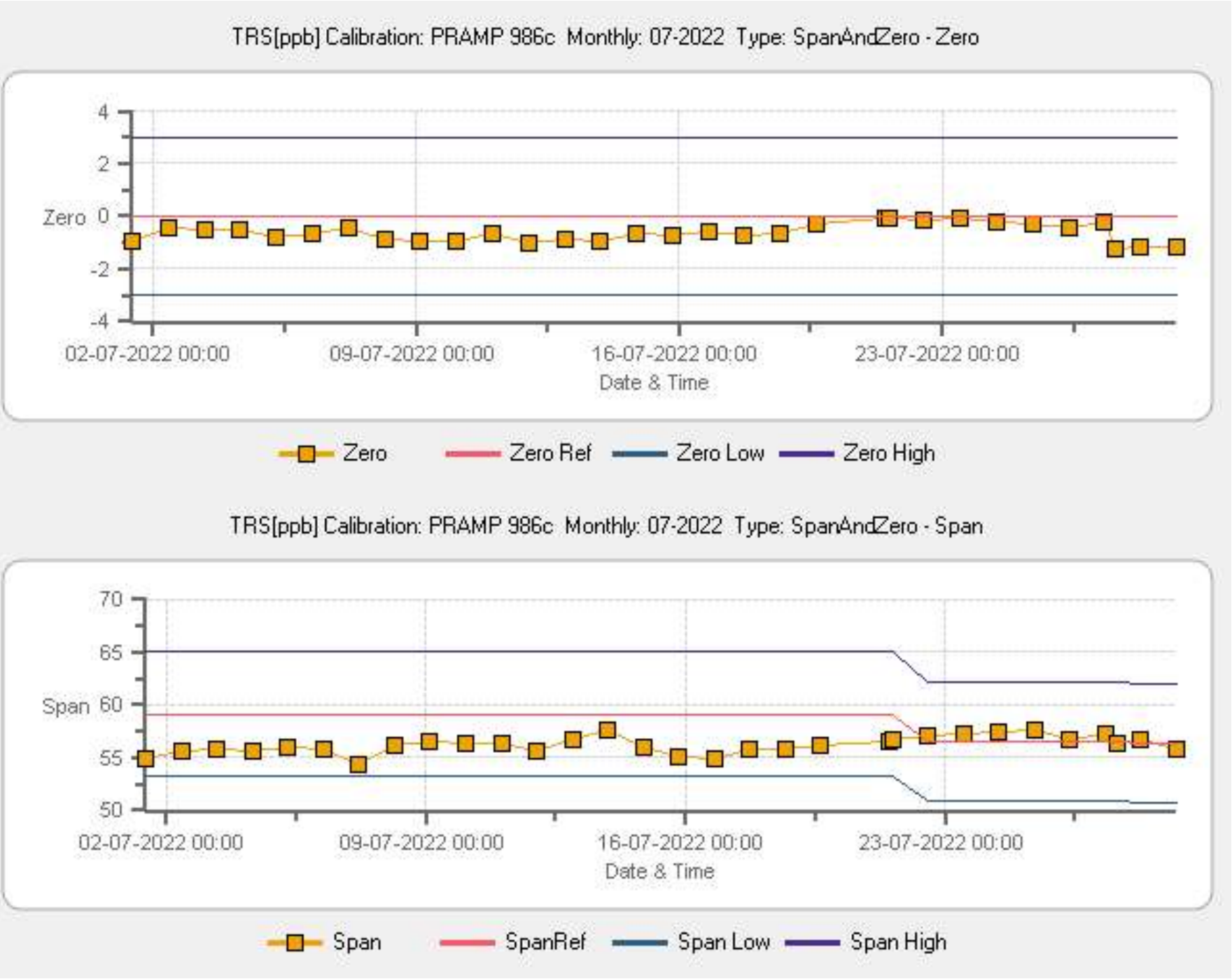
Operation and Maintenance:
Bureau Veritas Canada

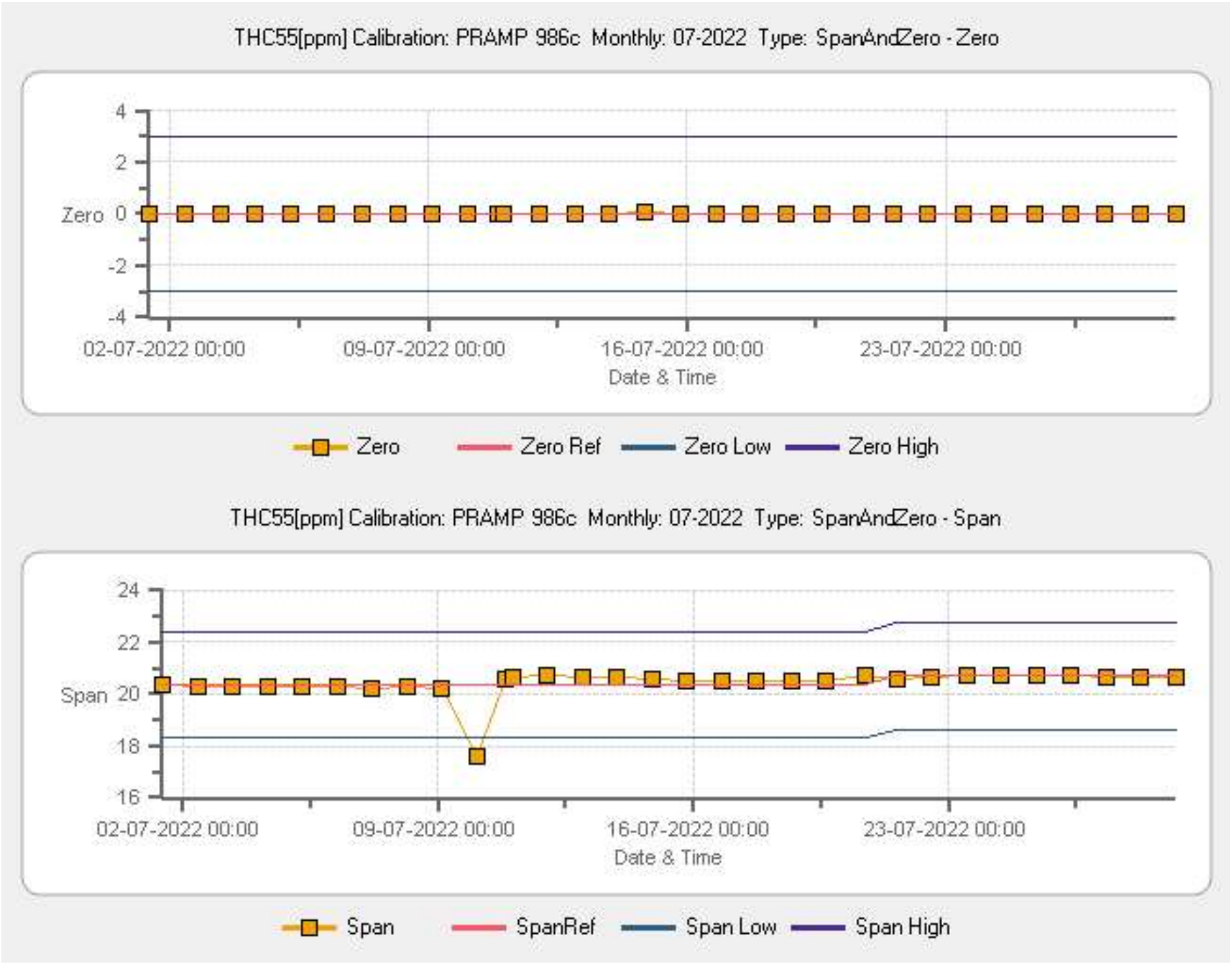
Data Validation and Report:
Bureau Veritas Canada

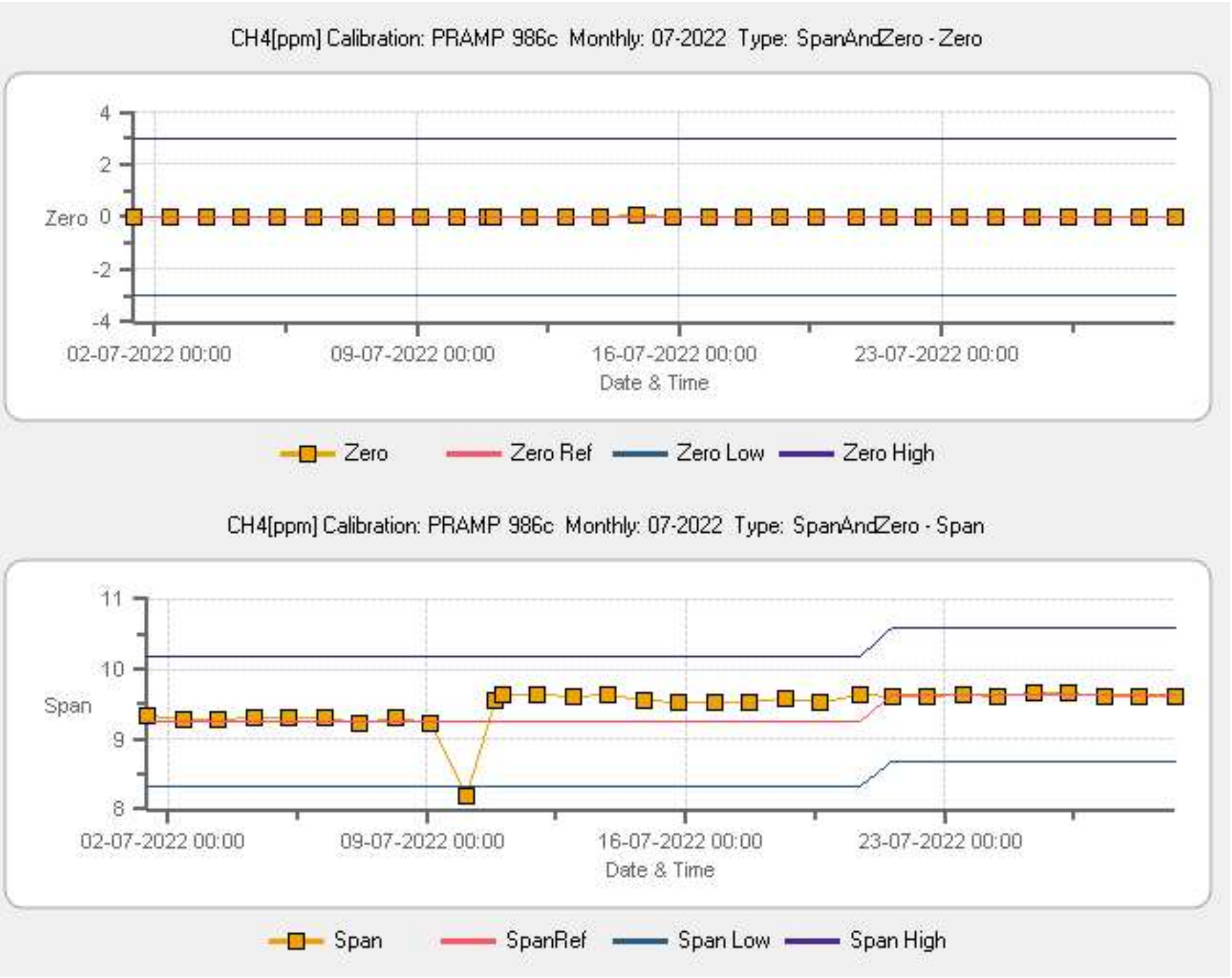
August 23, 2022

DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS


SO2[ppb] Calibration: PRAMP 986c Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
SO2[ppb] Calibration: PRAMP 986c Monthly: 07-2022 Type: SpanAndZero - Span
320
300
Span 280
260
240
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


TRS[ppb] Calibration: PRAMP 986c Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: PRAMP 986c Monthly: 07-2022 Type: SpanAndZero - Span
70
65
Span 60
55
50
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

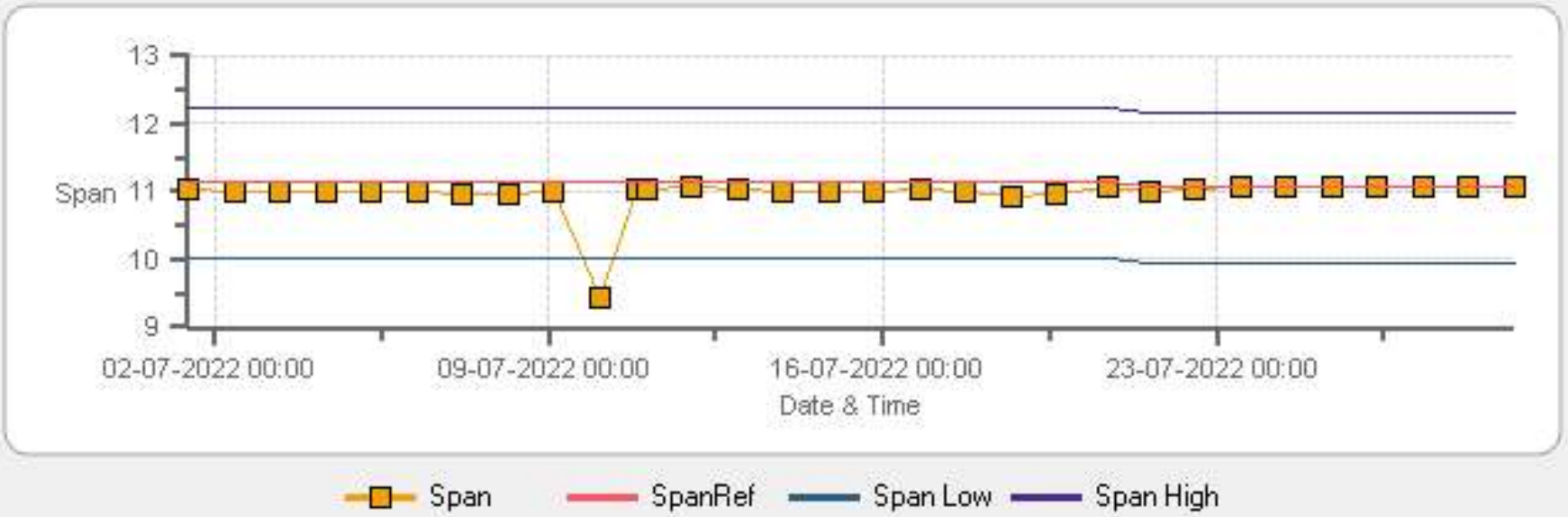

THC55[ppm] Calibration: PRAMP 986c Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: PRAMP 986c Monthly: 07-2022 Type: SpanAndZero - Span
24
22
Span 20
18
16
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


CH4[ppm] Calibration: PRAMP 986c Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: PRAMP 986c Monthly: 07-2022 Type: SpanAndZero - Span
11
10
Span
9
8
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

NMHC[ppm] Calibration: PRAMP 986c Monthly: 07-2022 Type: SpanAndZero - Zero



NMHC[ppm] Calibration: PRAMP 986c Monthly: 07-2022 Type: SpanAndZero - Span



MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	20-Jul-2022	PREVIOUS CALIBRATION DATE:	07-Jun-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	22.4
LOCATION:	986C	BAROMETRIC (mBar):	945
PURPOSE	Routine	START TIME (MST):	11:49
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	16:40

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	1193585646	FLOW (mL/min)	434
INITIAL		FINAL	
BKG/OFFSET	13.9	BKG/OFFSET	14.2
COEF/SLOPE	1.006	COEF/SLOPE	1.011
Expected (reference) Value	272.5	Expected (reference) Value	288.9

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL107286	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1820	LOW ID	n/a
EXPIRY DATE	02-Nov-2025	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		
4003		4003	0.00	0.5	0		
3941	60.57	4002	379.93	376.1	379.9	1.012	1.000
3974	28.66	4003	179.68	n/a	180.2	n/a	0.997
3989	14.33	4003	89.84	n/a	89.6	n/a	1.003

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

SO2[ppb] Station: PRAMP 986c Daily: 20-07-2022 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	20-Jul-2022	PREVIOUS CALIBRATION DATE:	07-Jun-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	22.7
LOCATION:	986C	BAROMETRIC (mBar):	945
PURPOSE	Removal/Shut-down	START TIME (MST):	16:04
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	18:08

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	420
INITIAL		FINAL	
BKG/OFFSET	16.1	BKG/OFFSET	n/a
COEF/SLOPE	1.055	COEF/SLOPE	n/a
Expected (reference) Value	59.12	Expected (reference) Value	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
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):	400	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		
4001		4001	0.00	-0.58	n/a		
3968	33.18	4001	78.02	80.69	n/a	0.960	n/a
3986	16.16	4002	38.01	38.44	n/a	0.974	n/a
3996	8.10	4004	19.03	18.14	n/a	1.016	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.046	-1.1%

COMMENTS:

TRS Converter CDNOVA CDN-101 #552. Shutdown - passed.


TRS[ppb] Station: PRAMP 986c Daily: 20-07-2022 Type: AVG 1 Min. [1 Min.]
TRS [ppb]
90
80
70
60
50
40
30
20
10
0
-10
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
TRS [ppb]

TRS Analyzer Calibration by Dilution

DATE:	21-Jul-2022	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	24.5
LOCATION:	986C	BAROMETRIC (mBar):	943
PURPOSE	Install/Post-Repair	START TIME (MST):	07:59
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	11:15

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	420
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	13.8
COEF/SLOPE	n/a	COEF/SLOPE	0.93
Expected (reference) Value	n/a	Expected (reference) Value	56.56

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
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):	390	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:	08:20	SO2 Conc (ppb)	380
END TIME:	08:38	Analyzer Response (ppb)	0.0

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4003		4003	0.00	n/a	0		
3971	33.19	4004	78.01	n/a	78.02	n/a	1.000
3986	16.18	4002	38.04	n/a	38.33	n/a	0.992
3996	8.10	4004	19.03	n/a	18.78	n/a	1.013

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.002	0.0%

COMMENTS:

TRS Converter CDNOVA CDN-101 #552. Renewed SO2 Scrubber beads. Post-Repair calibration - no issues.


TRS[ppb] Station: PRAMP 986c Daily: 21-07-2022 Type: AVG 1 Min. [1 Min.]
TRS [ppb]
90
80
70
60
50
40
30
20
10
0
-10
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
TRS [ppb]

TRS Analyzer Calibration by Dilution

DATE:	27-Jul-2022	PREVIOUS CALIBRATION DATE:	21-Jul-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	24.7
LOCATION:	986C	BAROMETRIC (mBar):	945
PURPOSE	Repeat	START TIME (MST):	09:47
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:52

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	1191833341	FLOW (mL/min)	422
INITIAL		FINAL	
BKG/OFFSET	13.7	BKG/OFFSET	14.7
COEF/SLOPE	0.93	COEF/SLOPE	0.936
Expected (reference) Value	56.56	Expected (reference) Value	56.33

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
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):	380	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:	10:22	SO2 Conc (ppb)	380
END TIME:	10:40	Analyzer Response (ppb)	0.0

CALIBRATION:

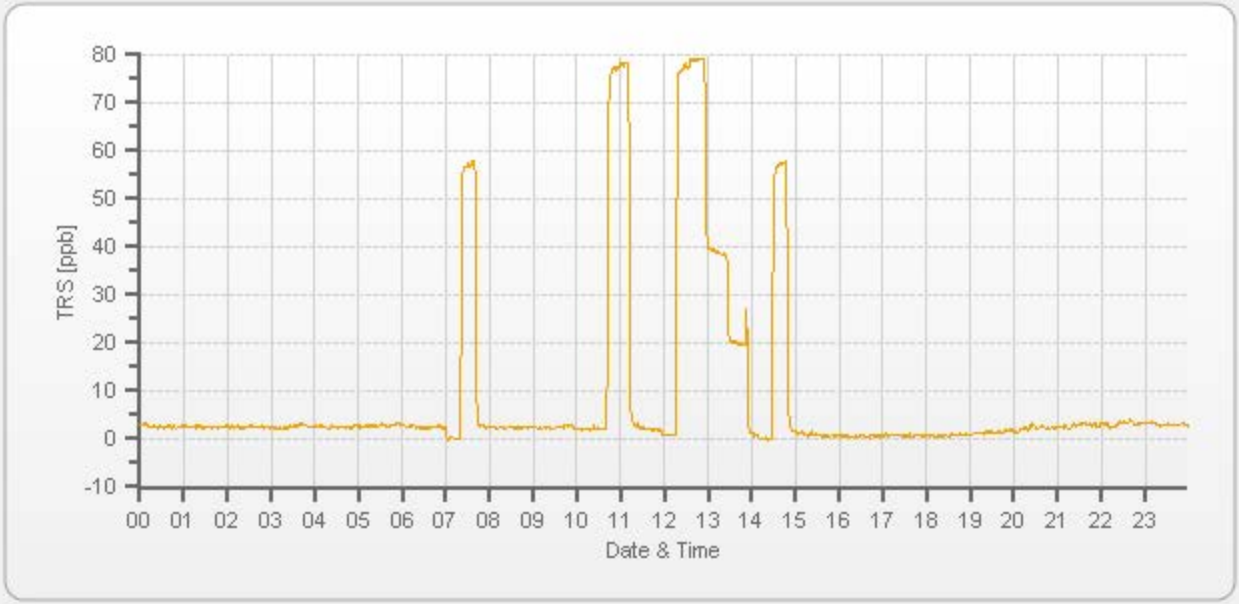
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4003		4003	0.00	1.34	0		
3968	33.19	4001	78.05	77.63	78.05	1.023	1.000
3983	16.16	3999	38.03	n/a	37.45	n/a	1.016
3996	8.10	4004	19.03	n/a	18.69	n/a	1.018

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.3%

COMMENTS:

Repeat calibration - no issues. TRS Converter CDNOVA CDN-101 #552


TRS[ppb] Station: PRAMP 986c Daily: 27-07-2022 Type: AVG 1 Min. [1 Min.]
TRS [ppb]
80
70
60
50
40
30
20
10
0
-10
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
TRS [ppb]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	20-Jul-2022	PREVIOUS CALIBRATION DATE:	07-Jun-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	23.5
LOCATION:	986C	BAROMETRIC (mBar):	945
PURPOSE	Routine	START TIME (MST):	13:30
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	17:18

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1433563261	1171.3
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.000	0.995	0.998

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	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:	916	CYLINDER (psi):	1210		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
	9.25	11.14	20.39		9.64	11.07	20.71

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
2998		2998	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
2928	72.00	3000	14.59	13.40	27.99	14.46	13.30	27.75	14.60	13.44	28.04	1.009	1.007	1.009	0.999	0.997	0.998
2963	36.00	2999	7.30	6.70	14.00	n/a	n/a	n/a	7.33	6.78	14.10	n/a	n/a	n/a	0.996	0.988	0.993
2980	18.00	2998	3.65	3.35	7.00	n/a	n/a	n/a	3.68	3.34	7.02	n/a	n/a	n/a	0.992	1.004	0.997

LINEAR REGRESSION ANALYSIS:

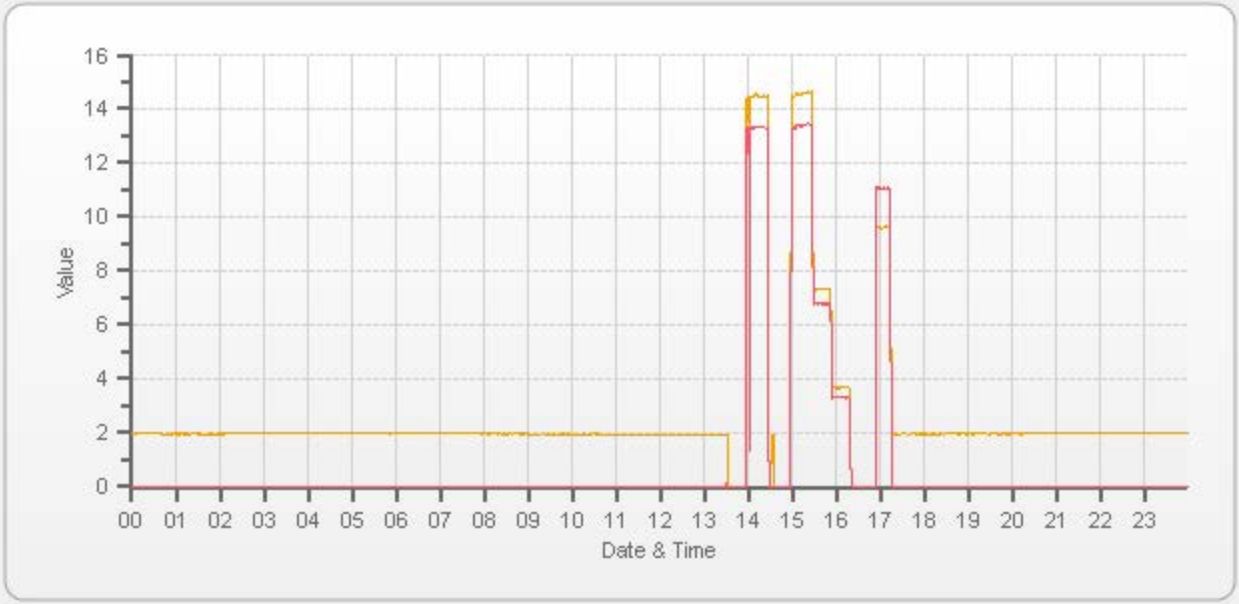
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.000	0.1%
NMHC	1.000	1.004	0.0%
THC	1.000	1.002	0.0%

Comments:

As-found high interrupted by daily Zero/Span at 14:00. Sample filter changed. Monthly calibration - passed.

Use Zero Chrom? **No**

Station: PRAMP 986c Daily: 20-07-2022 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	July 20, 2022
Technician:	Ferdinand Roy
Station:	PRAMP 986c

Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 16325
Temperature Sensor:	Rotronic	HC2A-S3	20357528
Barometric Pressure Sensor:	MetOne	092	Y23358
Relative Humidity Sensor:	Rotronic	HC2A-S3	20357528
Anemometer:	RM Young	05305AQ	180340

PRECIPITATION SENSOR CHECK

Checklist:	Reply:	Comments:
Previous check date:	June 7, 2022	Tip test: 17:10-17:15pm
Is the sensor Level?	yes	
Is the heater operating properly?	other - see comments	n/a
Are the bucket drain holes clean?	yes	
Is the screen on the housing? (screen should be on between July and September	yes	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

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

# of Tips	Data Logger Response (ml):	Manual Specification = +/- 0.1 ml
10	1.0	1.00

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	June 7, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 170286131 expires August 24, 2022
Reference Temperature (^{o}C):	22.9
Station - Ambient Temperature (^{o}C):	23.2
Temperature Difference (^{o}C):	-0.3

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	June 7, 2022	
Reference Barometer ID:	BGI deltaCal #201587, Expire: November 1, 2022	
Reference Pressure - Units/Reading:	millibar	941.9227
Station Pressure - Units/Reading:	millibar	939.1
Pressure Tolerance +/- 15% of error:	801 - 1083	0.30%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	June 7, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 160348895 expires September 4, 2022	
Reference Hygrometer % RH- Reading:	37.86	
Station Hygrometer % RH- Reading:	36.90	
RH Tolerance +/- 15% of difference:	32.18 - 43.54	2.5%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	June 7, 2022	Previous check date:	June 7, 2022
Wind Speed Observed (kph):	5~10	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	6.8	Wind Direction on Data Logger:	W
		Wind Direction Pass/Fail?:	Pass

Comments

No issues.

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

JULY 2022

Ambient Air Monitoring Calibration Report

- RENO STATION-

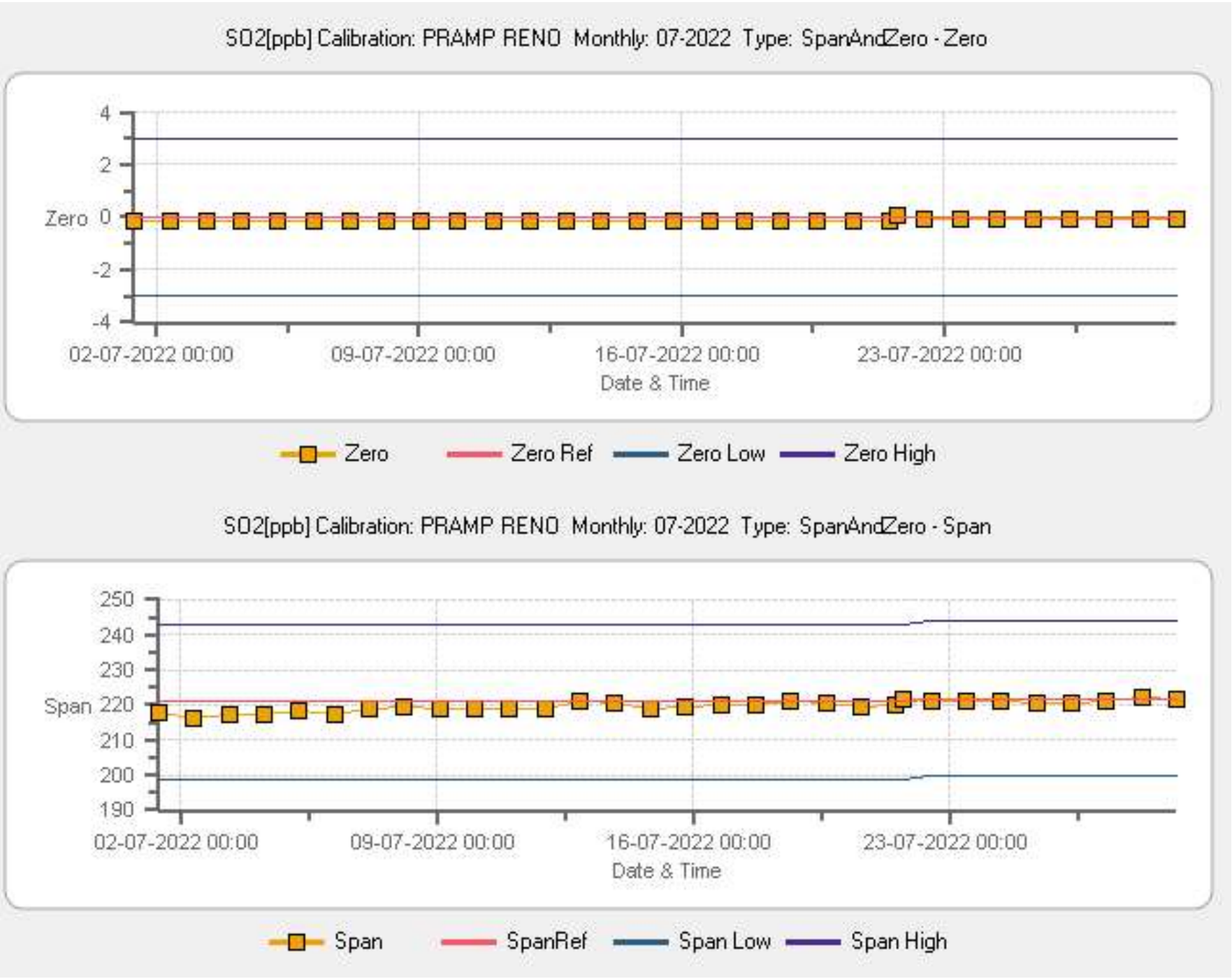
CAL-PRAMP-202207-01563

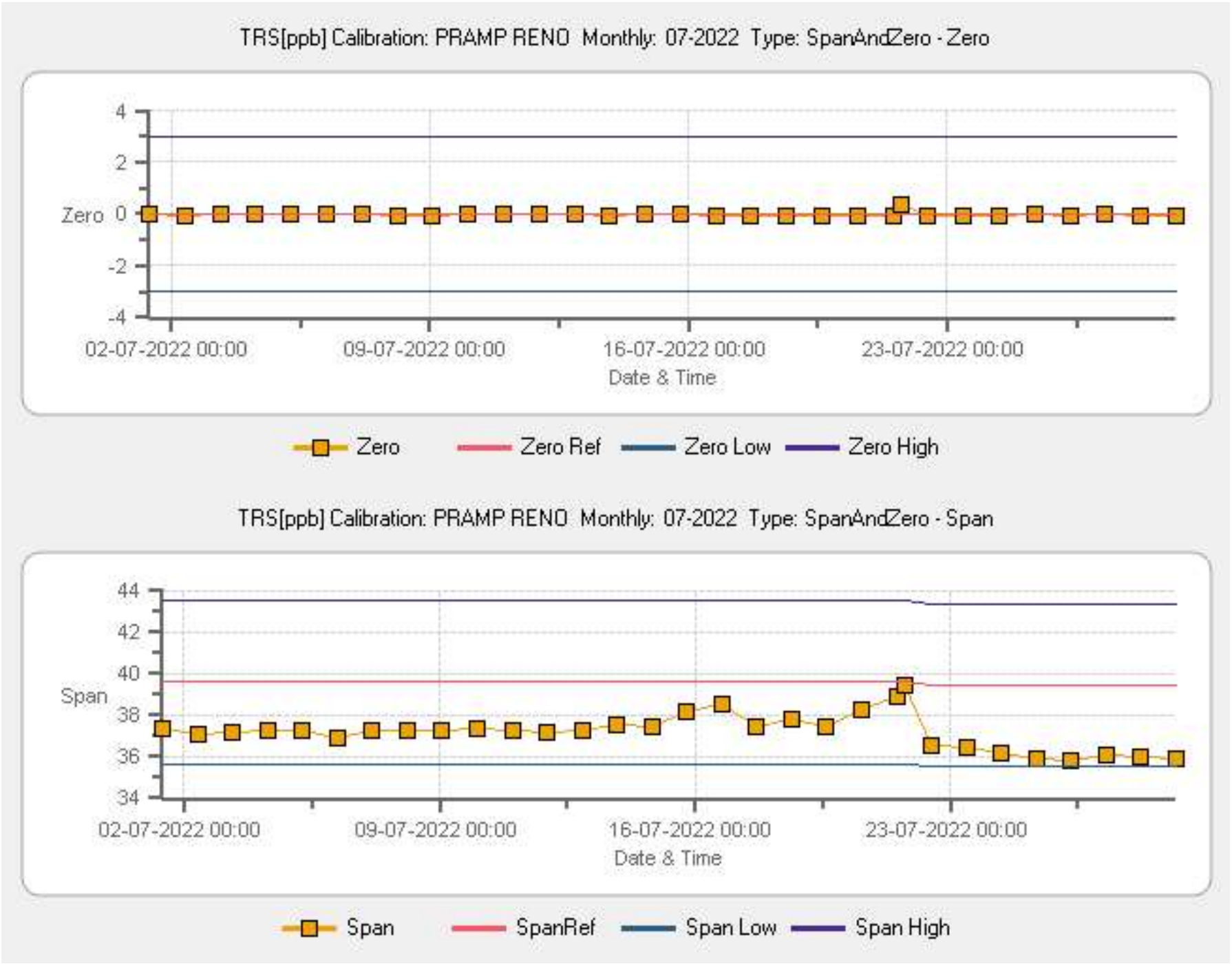
Operation and Maintenance:
Bureau Veritas Canada

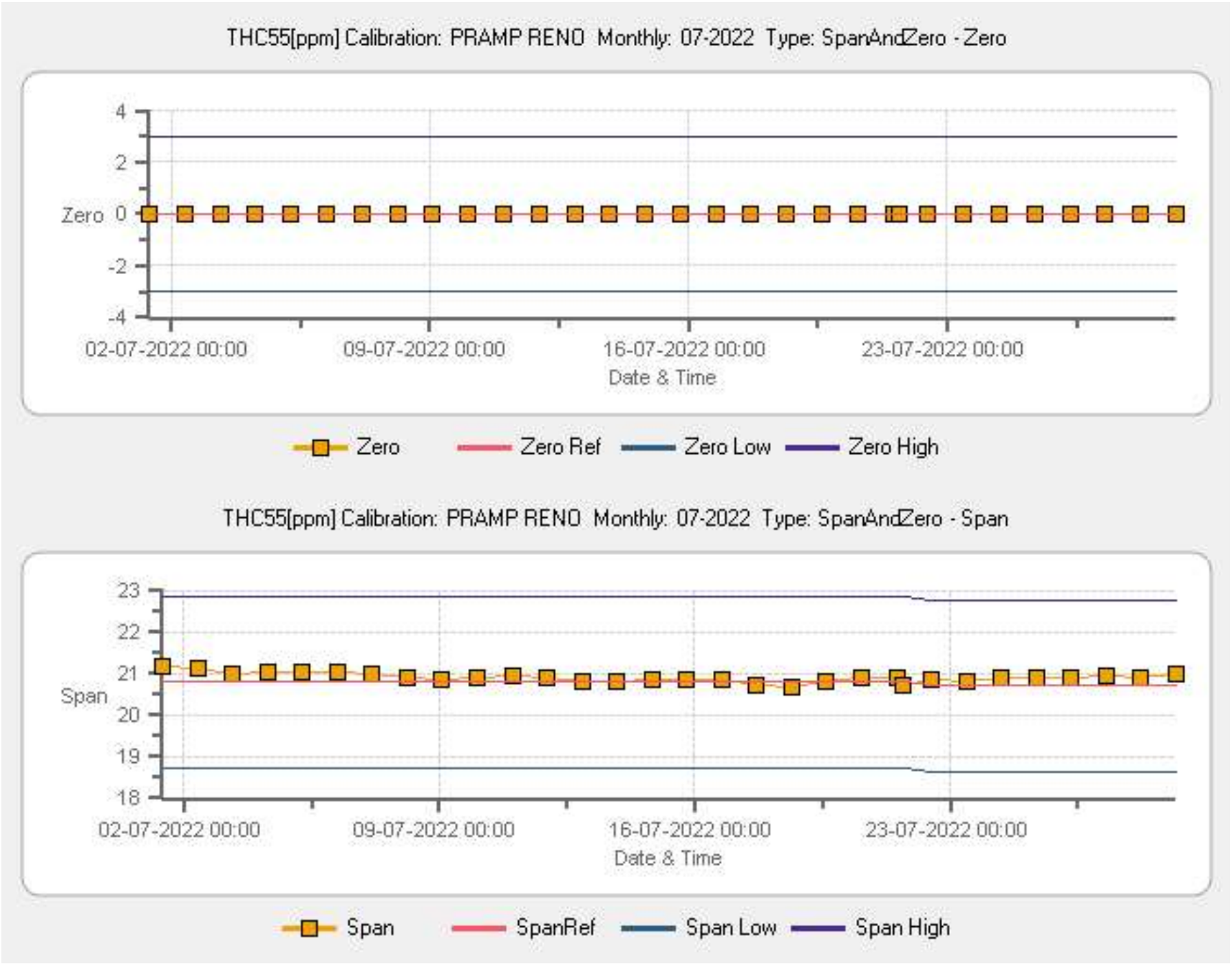
Data Validation and Report:
Bureau Veritas Canada

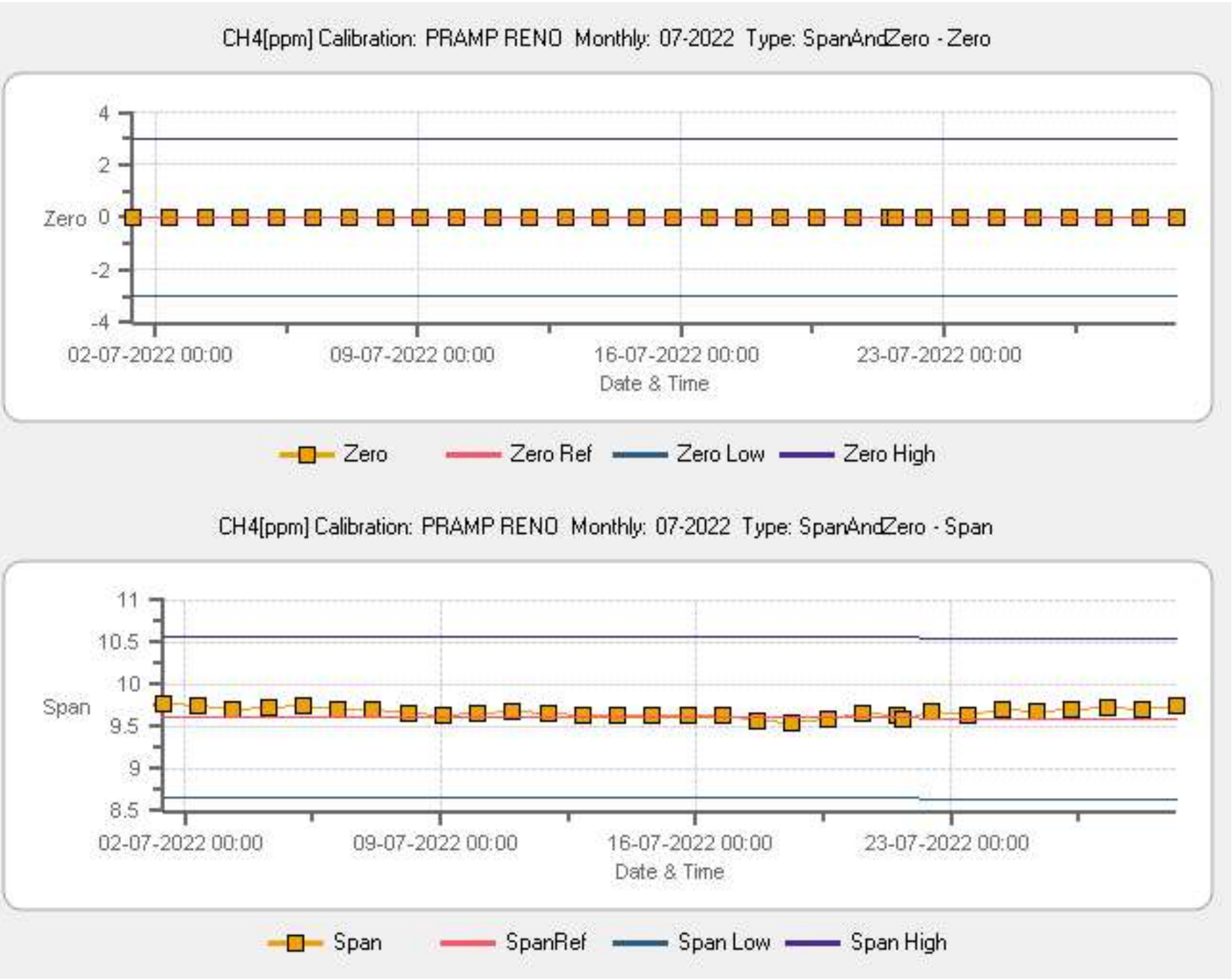
August 23, 2022

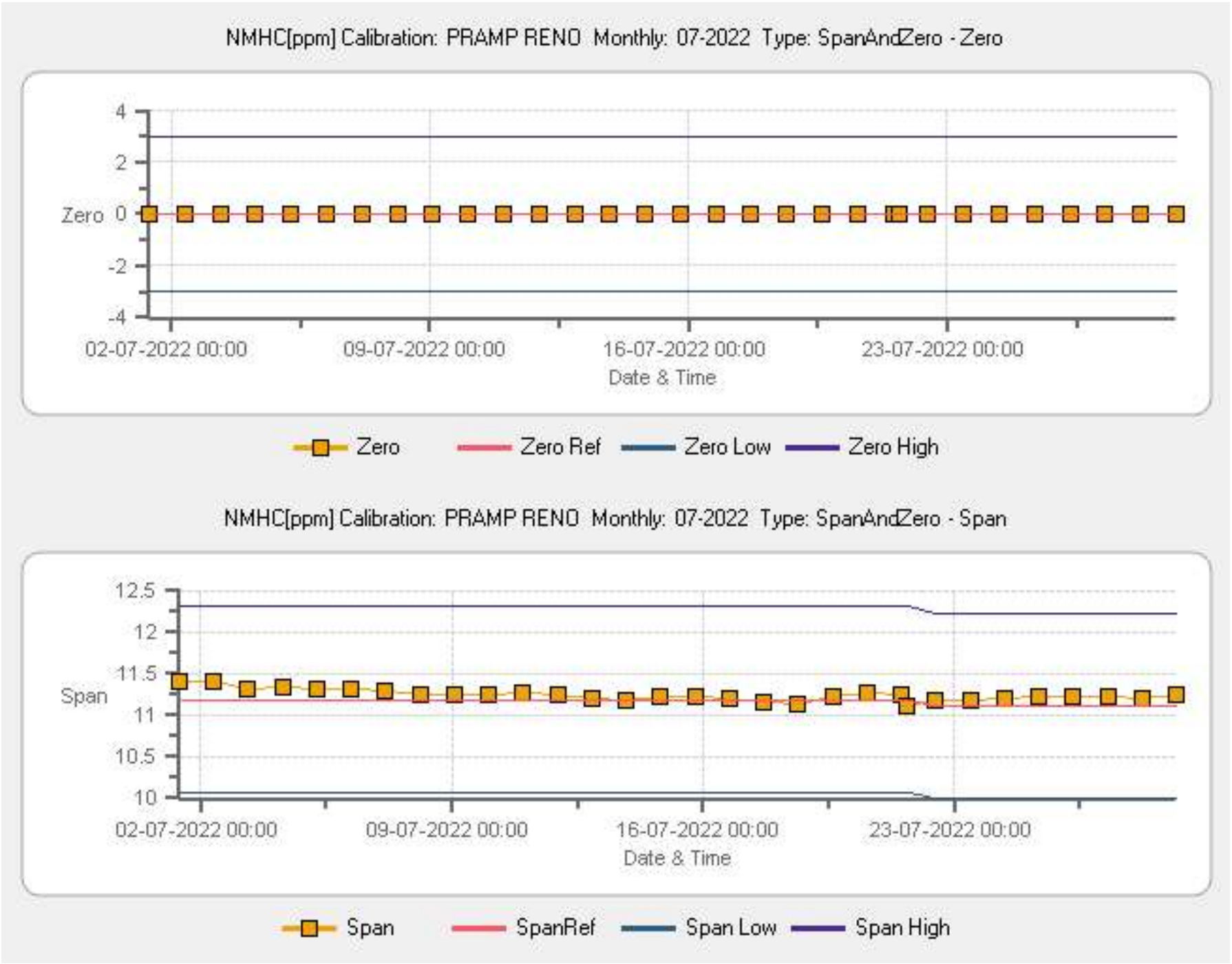
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS


SO2[ppb] Calibration: PRAMP RENO Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
SO2[ppb] Calibration: PRAMP RENO Monthly: 07-2022 Type: SpanAndZero - Span
250
240
230
Span 220
210
200
190
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


TRS[ppb] Calibration: PRAMP RENO Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: PRAMP RENO Monthly: 07-2022 Type: SpanAndZero - Span
44
42
40
Span
38
36
34
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


THC55[ppm] Calibration: PRAMP RENO Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: PRAMP RENO Monthly: 07-2022 Type: SpanAndZero - Span
23
22
21
Span
20
19
18
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


CH4[ppm] Calibration: PRAMP RENO Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: PRAMP RENO Monthly: 07-2022 Type: SpanAndZero - Span
11
10.5
10
Span
9.5
9
8.5
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


NMHC[ppm] Calibration: PRAMP RENO Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: PRAMP RENO Monthly: 07-2022 Type: SpanAndZero - Span
12.5
12
11.5
Span
11
10.5
10
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	21-Jul-2022	PREVIOUS CALIBRATION DATE:	09-Jun-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.0
LOCATION:	Reno	BAROMETRIC (mBar):	939
PURPOSE	Routine	START TIME (MST):	13:12
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	17:54

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	500 ppb
SERIAL #	12101910505	FLOW (mL/min)	442
INITIAL		FINAL	
BKG/OFFSET	1.04	BKG/OFFSET	0.96
COEF/SLOPE	0.924	COEF/SLOPE	0.934
Expected (reference) Value	220.9	Expected (reference) Value	221.8

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL107286	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1800	LOW ID	n/a
EXPIRY DATE	02-Nov-2025	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		
4001		4001	0.00	-0.1	0		
3939	60.55	3999	380.00	374.2	380	1.015	1.000
3974	28.66	4003	179.68	n/a	179.9	n/a	0.999
3989	14.33	4003	89.84	n/a	89.1	n/a	1.008

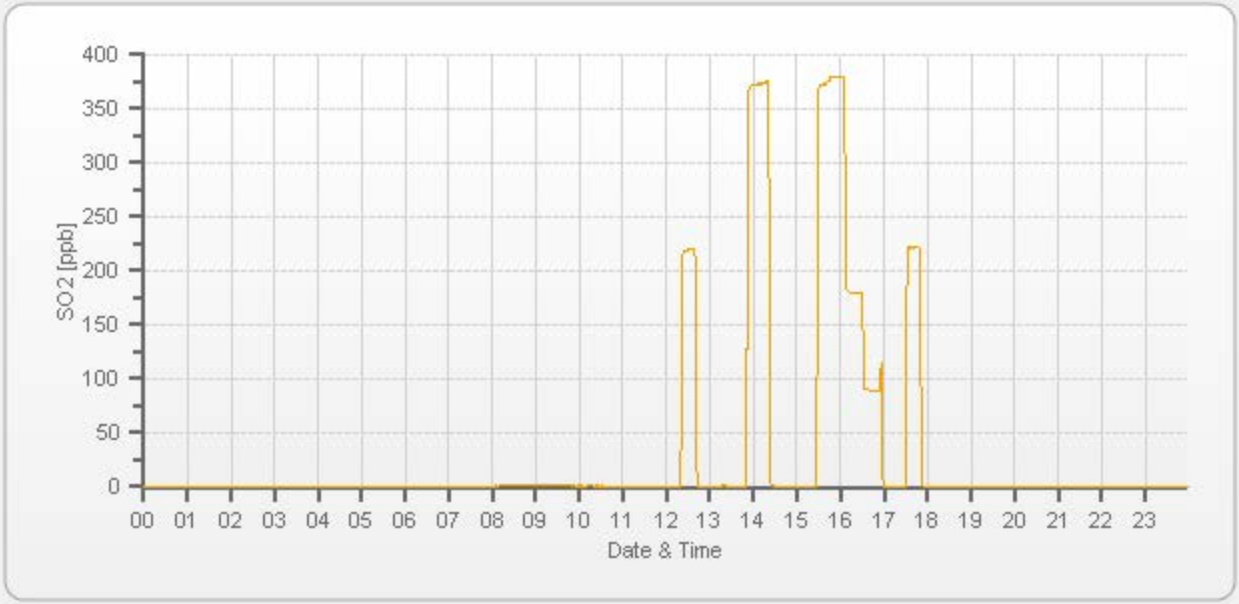
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	0.0%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

SO2[ppb] Station: PRAMP RENO Daily: 21-07-2022 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	21-Jul-2022	PREVIOUS CALIBRATION DATE:	09-Jun-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.0
LOCATION:	Reno	BAROMETRIC (mBar):	939
PURPOSE	Routine	START TIME (MST):	13:12
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	17:54

ANALYZER:

MAKE/MODEL	Thermo 43iQTL	RANGE	100 ppb
SERIAL #	12101910504	FLOW (mL/min)	400
INITIAL		FINAL	
BKG/OFFSET	0.9	BKG/OFFSET	0.88
COEF/SLOPE	0.9	COEF/SLOPE	0.882
Expected (reference) Value	39.61	Expected (reference) Value	39.46

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
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):	400	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		
4001		4001	0.00	-0.08	0		
3966	33.16	3999	78.03	78.91	78.03	0.988	1.000
3987	16.16	4003	38.00	n/a	38.39	n/a	0.990
3995	8.10	4003	19.03	n/a	19.57	n/a	0.972

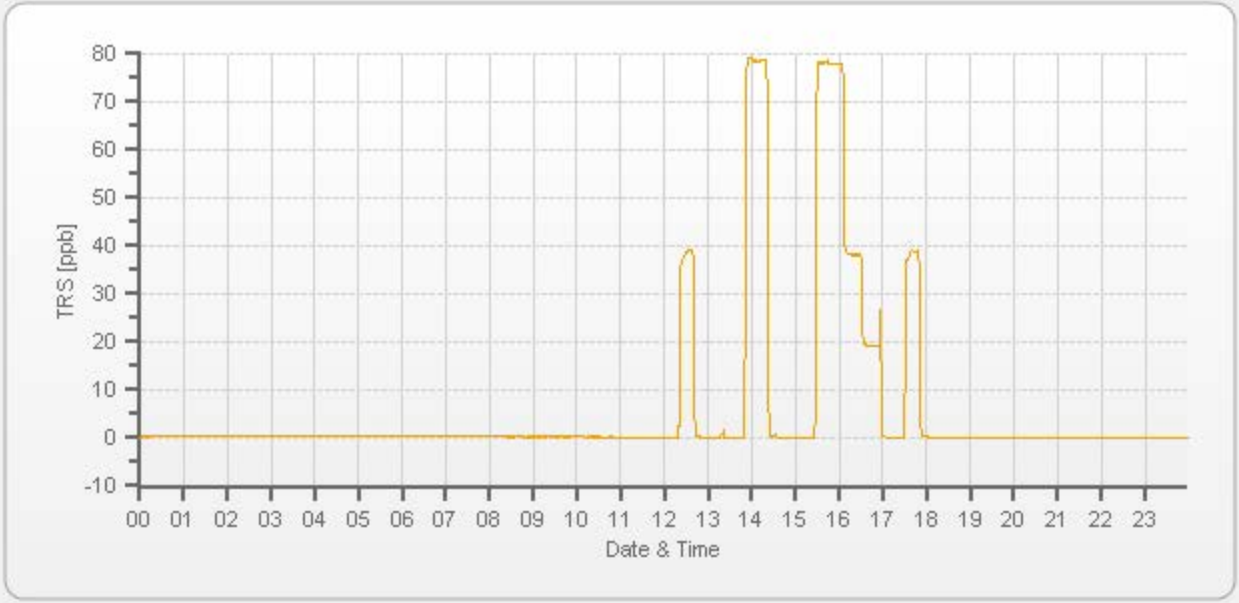
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.998	0.3%

COMMENTS:

Sample filter changed. Monthly calibration - no issues. Converter: CDNova CDN-101 #590.

TRS[ppb] Station: PRAMP RENO Daily: 21-07-2022 Type: AVG 1 Min. [1 Min.]



Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	21-Jul-2022	PREVIOUS CALIBRATION DATE:	09-Jun-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	23.0
LOCATION:	Reno	BAROMETRIC (mBar):	939
PURPOSE	Routine	START TIME (MST):	13:12
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	17:03

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	12101910497	1151.3
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	1.000	0.999	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:	M701	CH_4/C_3H_8 (ppm):	608.0	203.0	HIGH EXPIRY:	n/a
ID:	17100415	ID:	916	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
	9.61	11.19	20.80		9.59	11.12	20.71

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
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	14.72	13.55	28.27	14.61	13.41	28.01	0.992	0.989	0.990	0.999	0.999	1.000
2963	36.00	2999	7.30	6.70	14.00	n/a	n/a	n/a	7.31	6.74	14.05	n/a	n/a	n/a	0.998	0.994	0.996
2980	18.00	2998	3.65	3.35	7.00	n/a	n/a	n/a	3.66	3.41	7.07	n/a	n/a	n/a	0.997	0.983	0.990

LINEAR REGRESSION ANALYSIS:

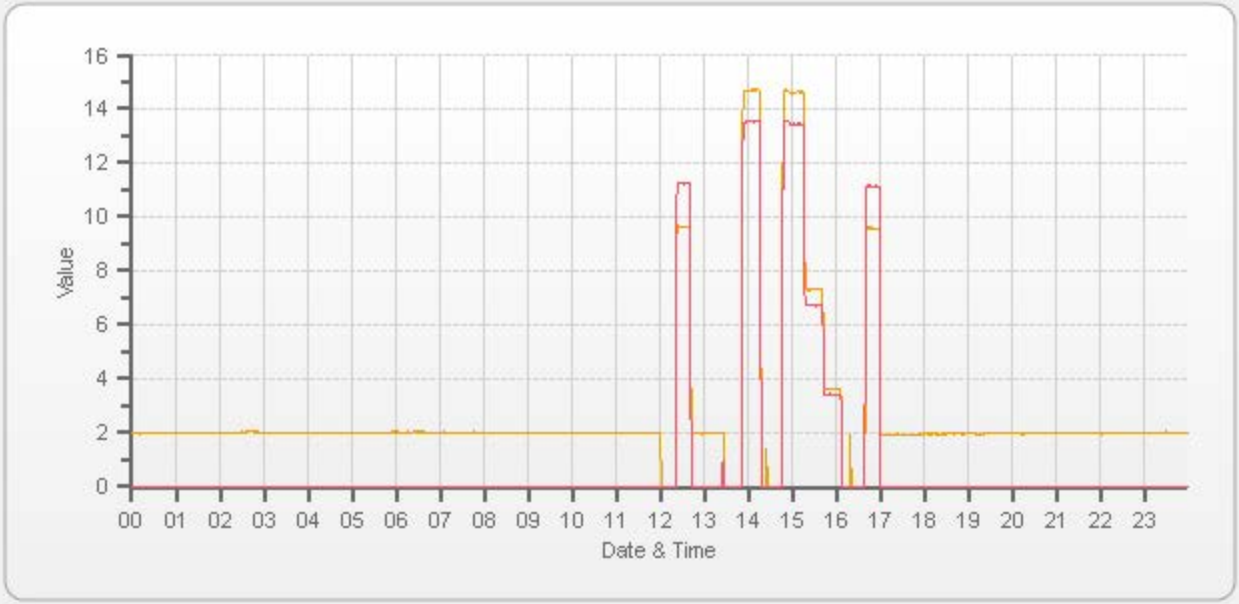
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.001	0.0%
NMHC	1.000	0.999	0.1%
THC	1.000	1.000	0.1%

Comments:

Sample filter changed. Monthly calibration - no issues.

Use Zero Chrom? **No**

Station: PRAMP RENO Daily: 21-07-2022 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	July 21, 2022
Technician:	Ferdinand Roy
Station:	PRAMP Reno

Unit:	Make:	Model:	Serial #:
Precipitation Sampler:	RM Young	52202	TB 15877
Temperature Sensor:	Rotronic	HC2-S3	61116376
Barometric Pressure Sensor:	MetOne	92	K12864
Relative Humidity Sensor:	Rotronic	HC2-S3	61116376
Anemometer:	RM Young	05305VK	149769

PRECIPITATION SENSOR CHECK

Checklist:	Reply:	Comments:
Previous check date:	June 9, 2022	Tip test = 16:46-17:30, channel offline time:16:46-17:30.
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	yes	
Is the housing clean?	yes	
Is the area around the housing clean and free from obstacles?	yes	

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

# of Tips	Data Logger Response (ml):	Manual Specification = +/- 0.1 ml
10	1.00	1.00

AMBIENT TEMPERATURE SENSOR CHECK

Previous check date:	June 9, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher SCIENTIFIC 160348895 expires September 4, 2022
Reference Temperature (^{o}C):	21.2
Station - Ambient Temperature (^{o}C):	22.0
Temperature Difference (^{o}C):	-0.8

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	June 9, 2022	
Reference Barometer ID:	DeltaCal #201587, Expire: Nov 1, 2022	
Reference Pressure - Units/Reading:	millibar	937.2564
Station Pressure - Units/Reading:	millibar	936
Pressure Tolerance +/- 15% of error:	797 - 1078	0.13%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	June 9, 2022	
Reference Hygrometer ID:	Fisher SCIENTIFIC 160348895 expires September 4, 2022	
Reference Hygrometer % RH- Reading:	52.00	
Station Hygrometer % RH- Reading:	48.50	
RH Tolerance +/- 15% of difference:	44.20 - 59.80	6.7%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	June 9, 2022	Previous check date:	June 9, 2022
Wind Speed Observed (kph):	5~15	Wind Direction Observed:	N
Wind speed on Data Logger (kph):	13	Wind Direction on Data Logger:	N
		Wind Direction Pass/Fail?:	Pass

Comments

No issues.

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

JULY 2022

Ambient Air Monitoring Calibration Report

- AQHI - GRIMSHAW STATION-

CAL-PRAMP-202207-01689

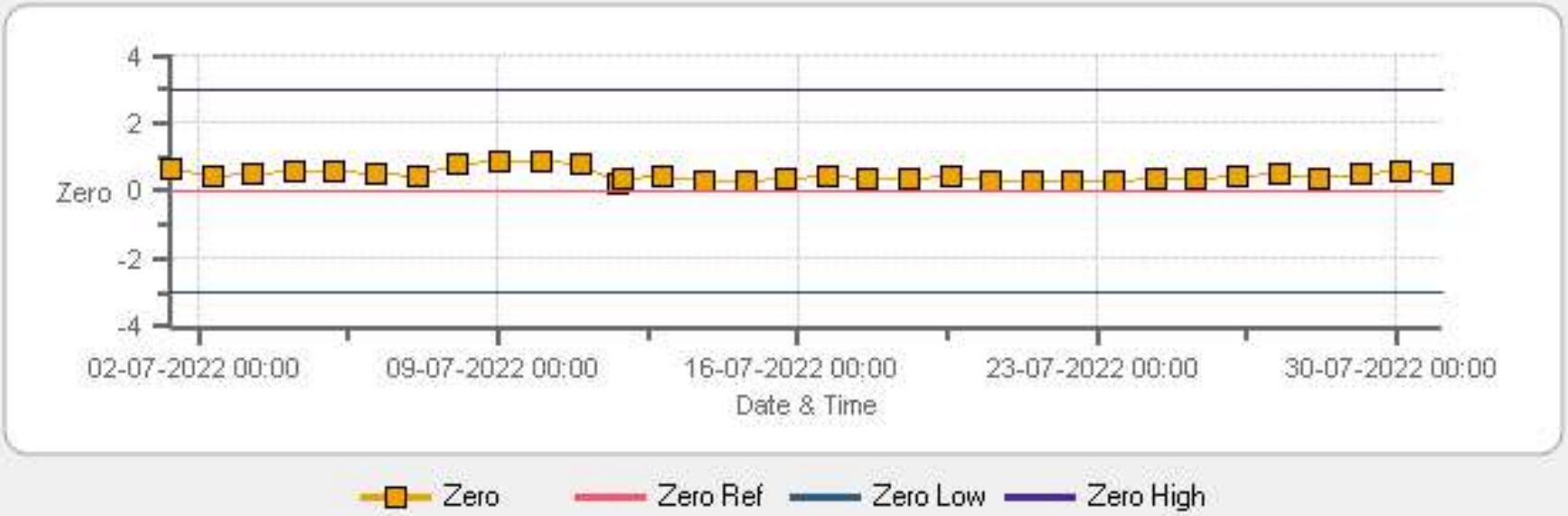
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

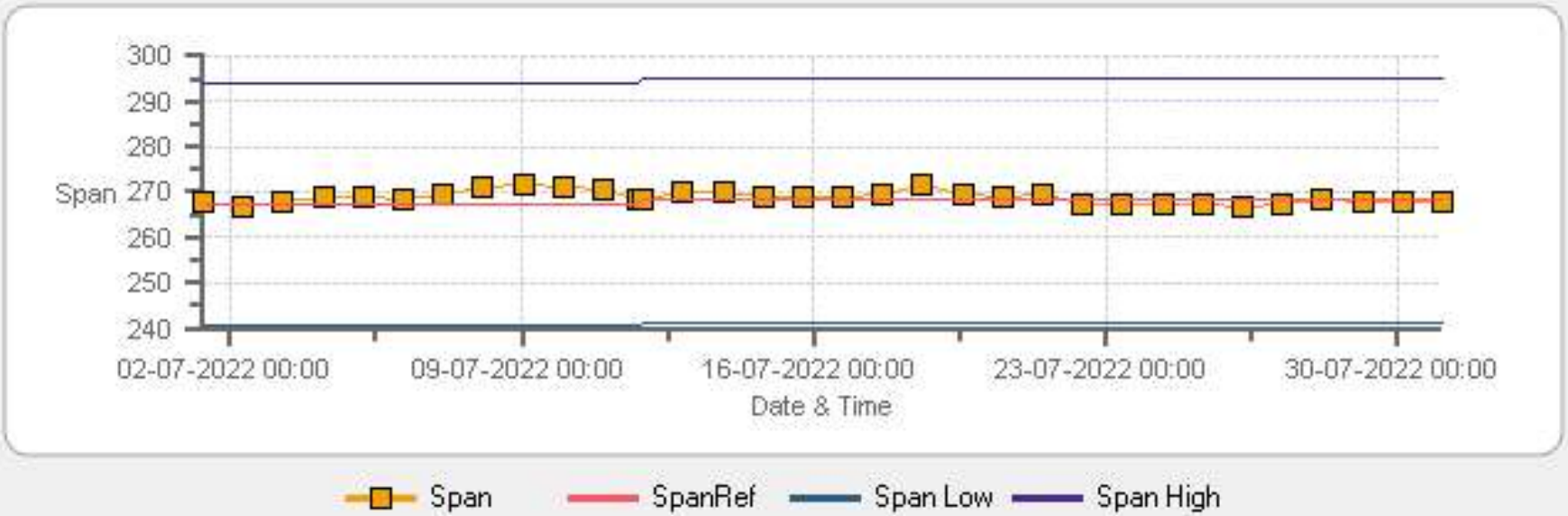
August 23, 2022

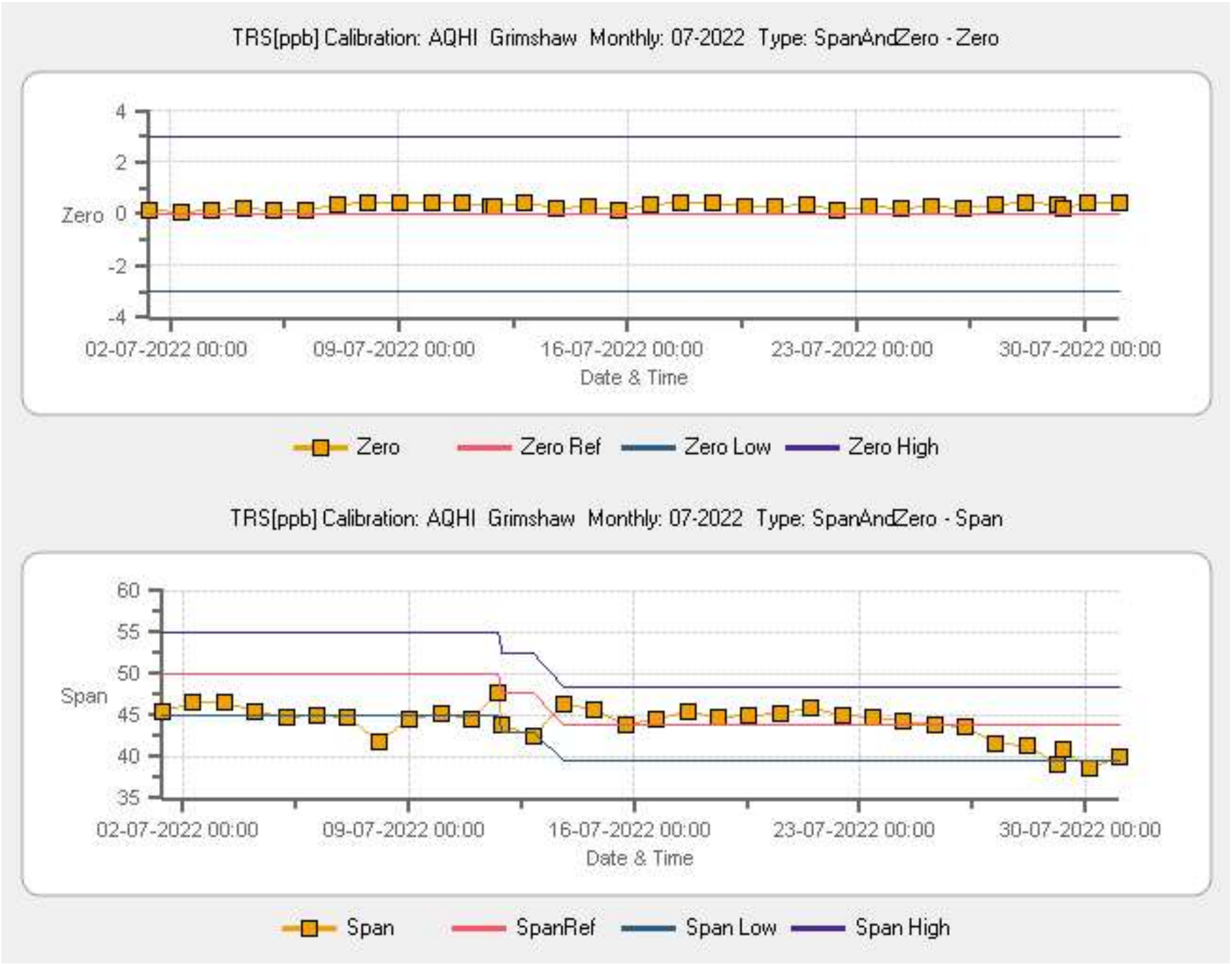
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

SO2[ppb] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Zero



SO2[ppb] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Span

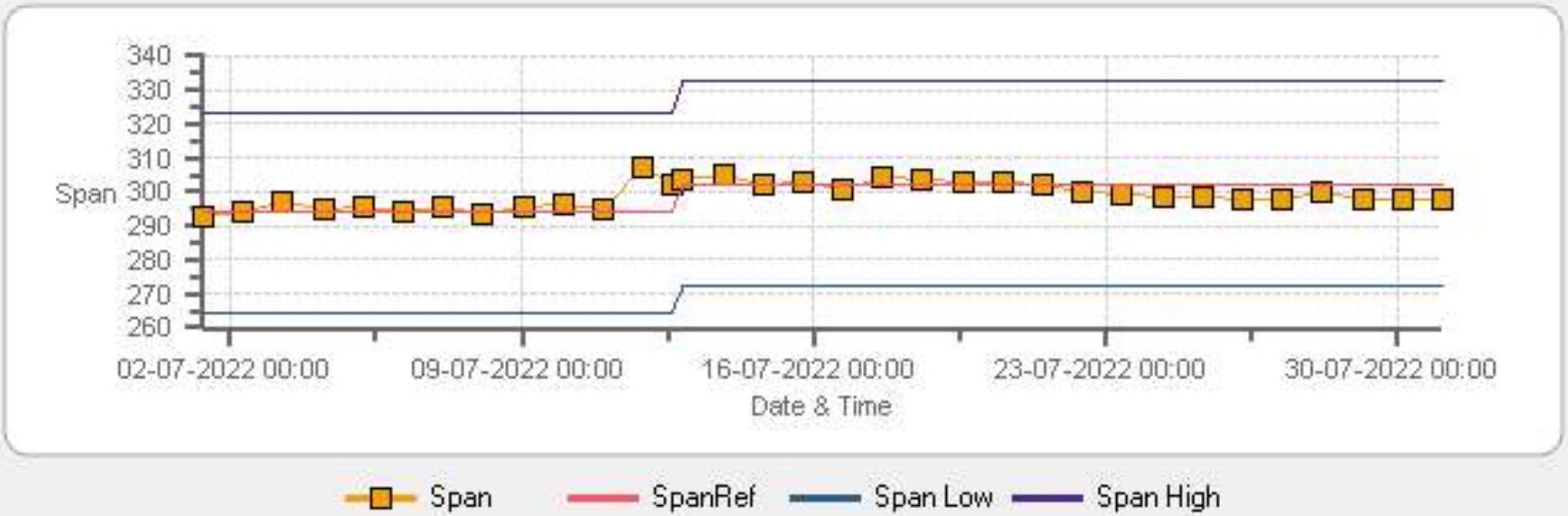


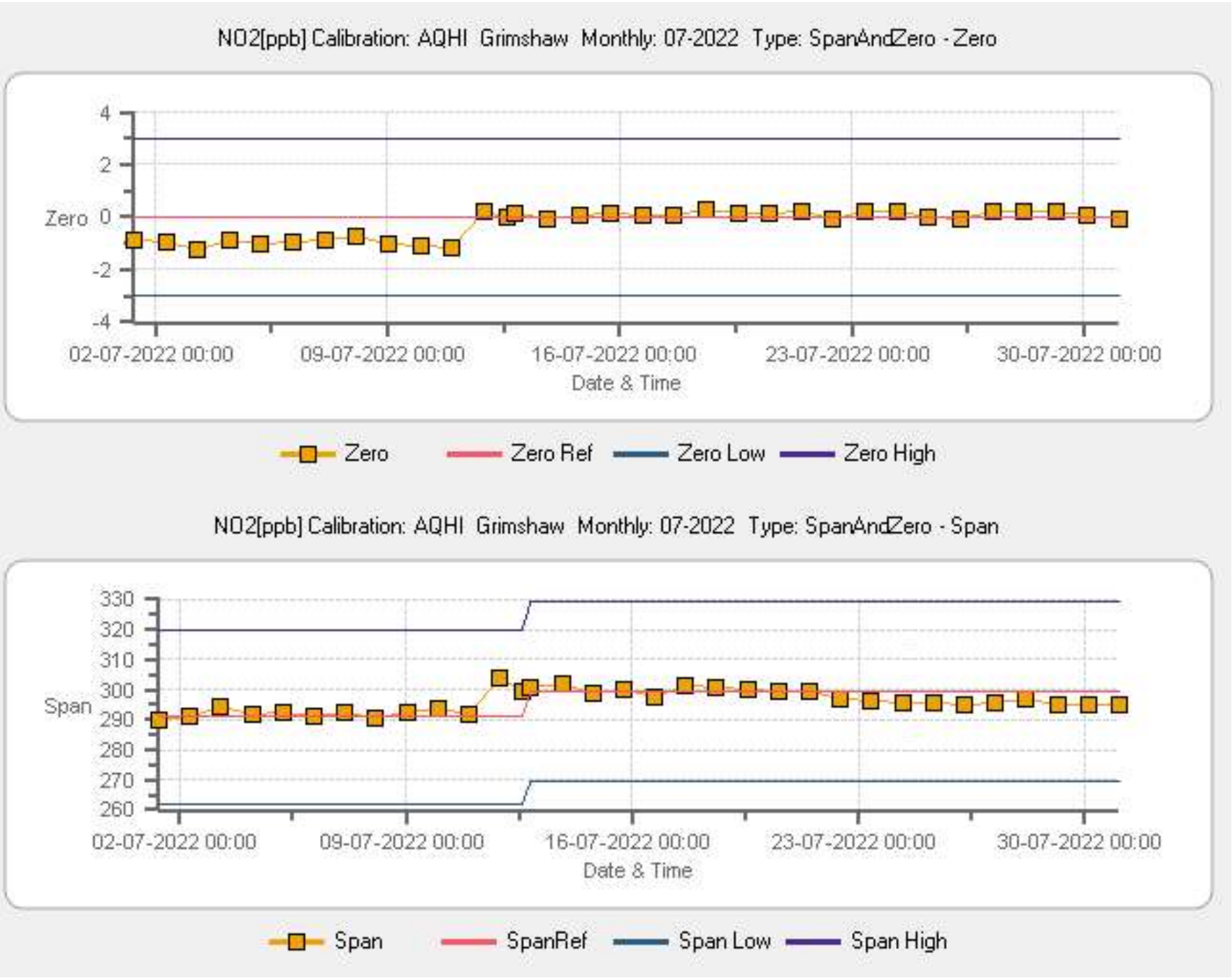

TRS[ppb] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Span
60
55
50
Span
45
40
35
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

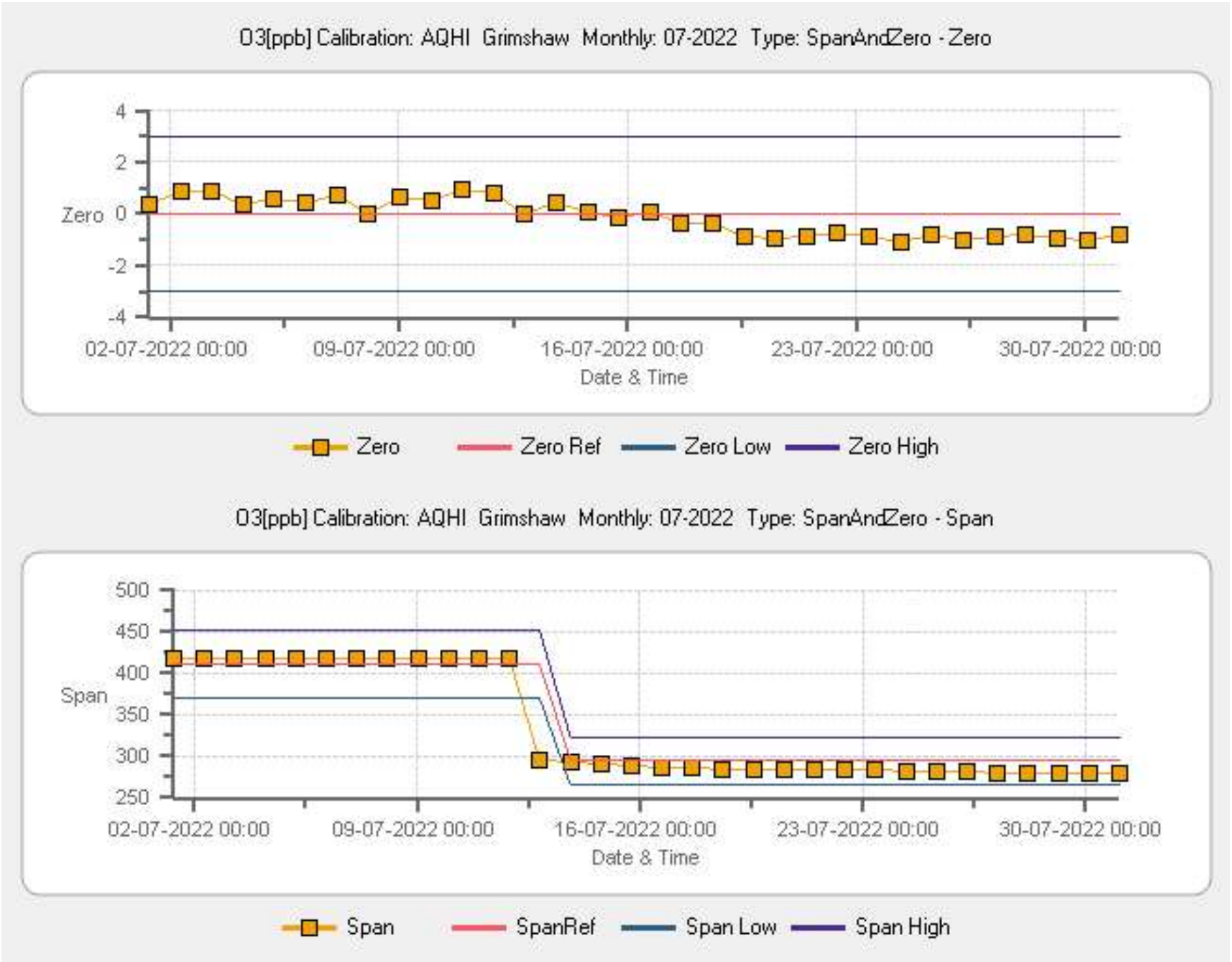
NOX[ppb] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Zero

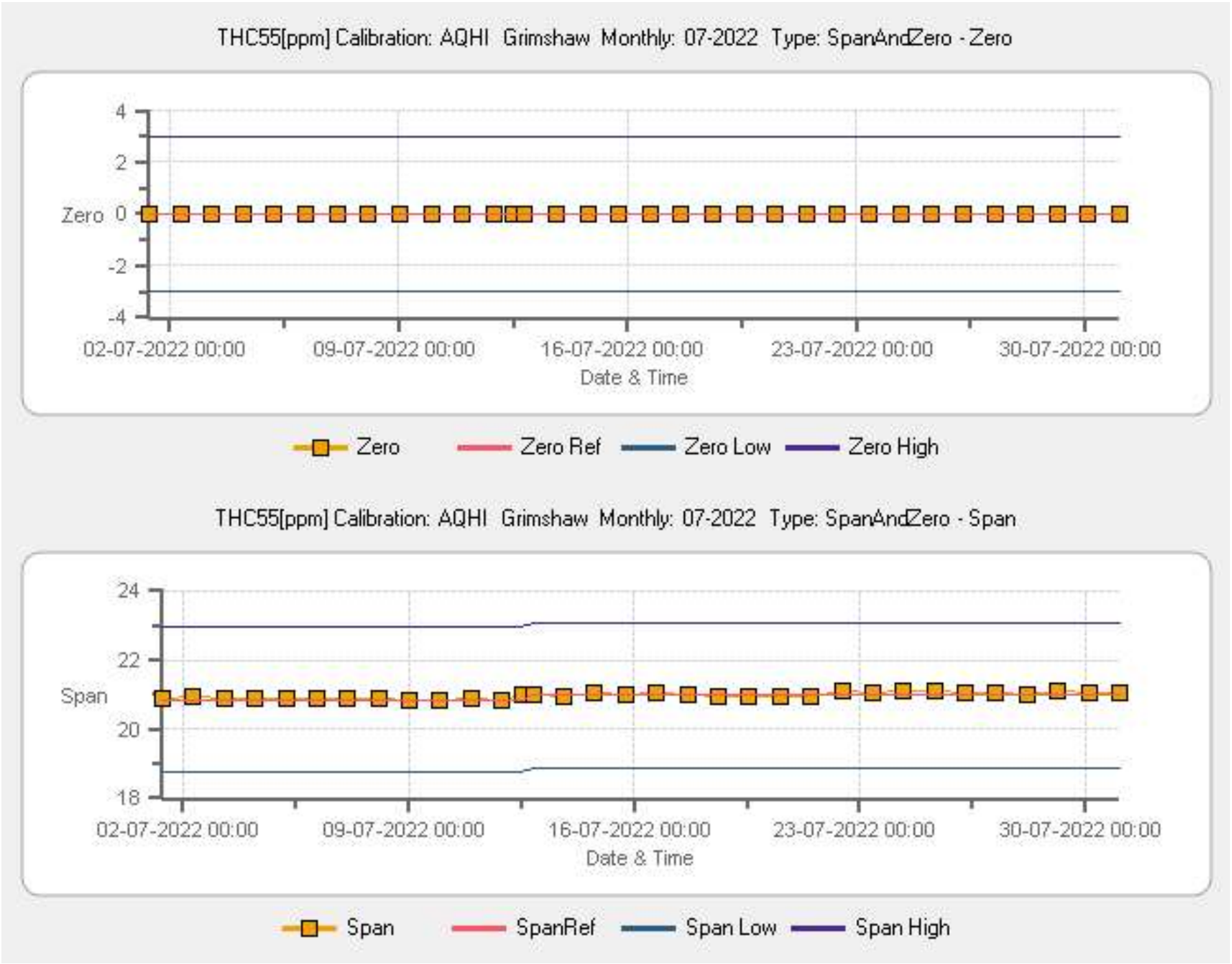


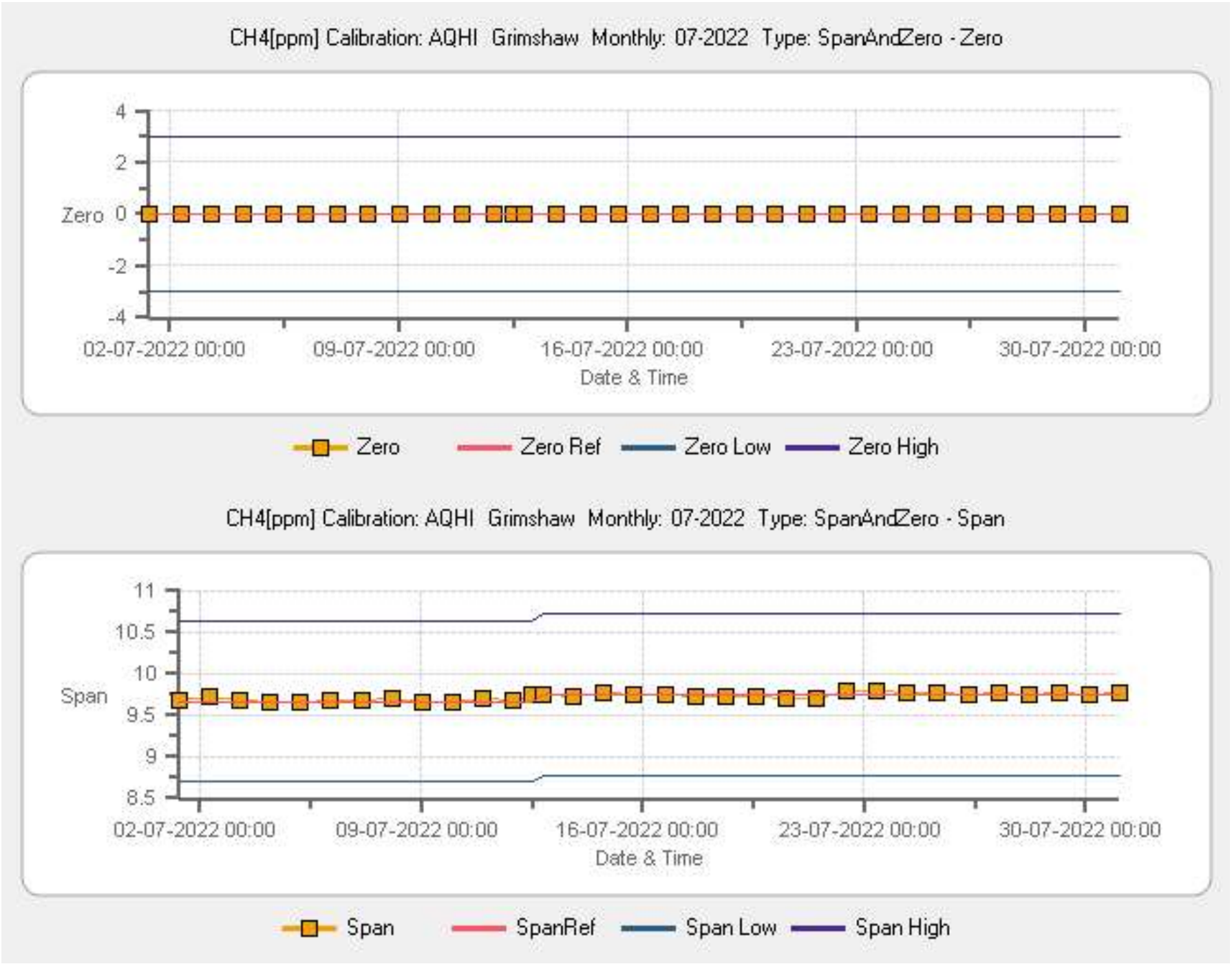
NOX[ppb] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Span

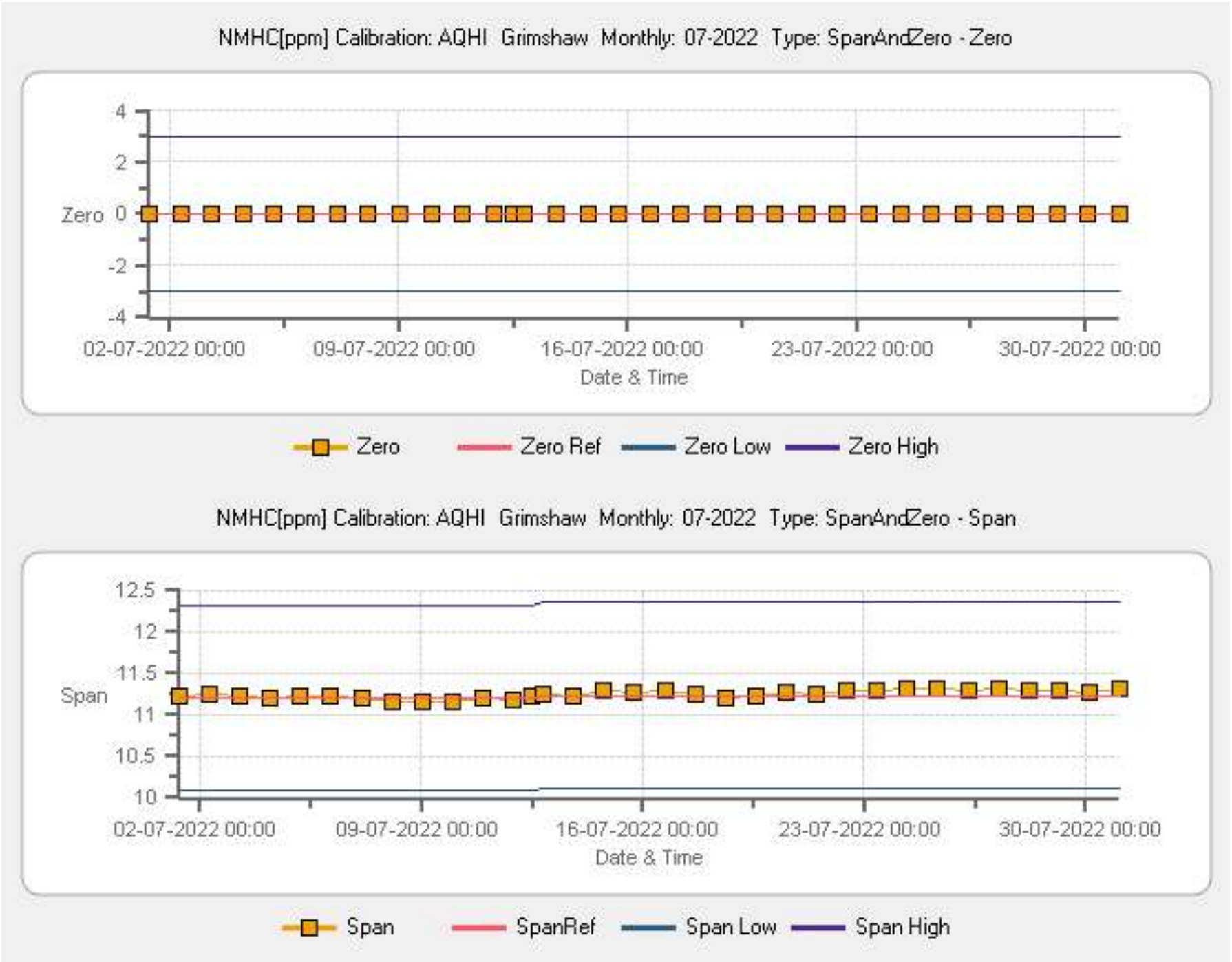



NO2[ppb] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NO2[ppb] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Span
330
320
310
300
Span 290
280
270
260
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


O3[ppb] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Zero
Zero
4
2
0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
O3[ppb] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Span
Span
500
450
400
350
300
250
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


THC55[ppm] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Span
24
22
Span
20
18
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


CH4[ppm] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Span
11
10.5
10
Span
9.5
9
8.5
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: AQHI Grimshaw Monthly: 07-2022 Type: SpanAndZero - Span
12.5
12
11.5
Span
11
10.5
10
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	11-Jul-2022	PREVIOUS CALIBRATION DATE:	16-Jun-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	21.6
LOCATION:	Grimshaw	BAROMETRIC (mBar):	948
PURPOSE	Routine	START TIME (MST):	13:49
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	18:46

ANALYZER:

MAKE/MODEL	Teledyne T100	RANGE	500 ppb
SERIAL #	722	FLOW (mL/min)	529
INITIAL		FINAL	
BKG/OFFSET	24.8	BKG/OFFSET	25.9
COEF/SLOPE	0.94	COEF/SLOPE	0.933
Expected (reference) Value	267.5	Expected (reference) Value	268.1

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL107286	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1750	LOW ID	n/a
EXPIRY DATE	02-Nov-2025	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:

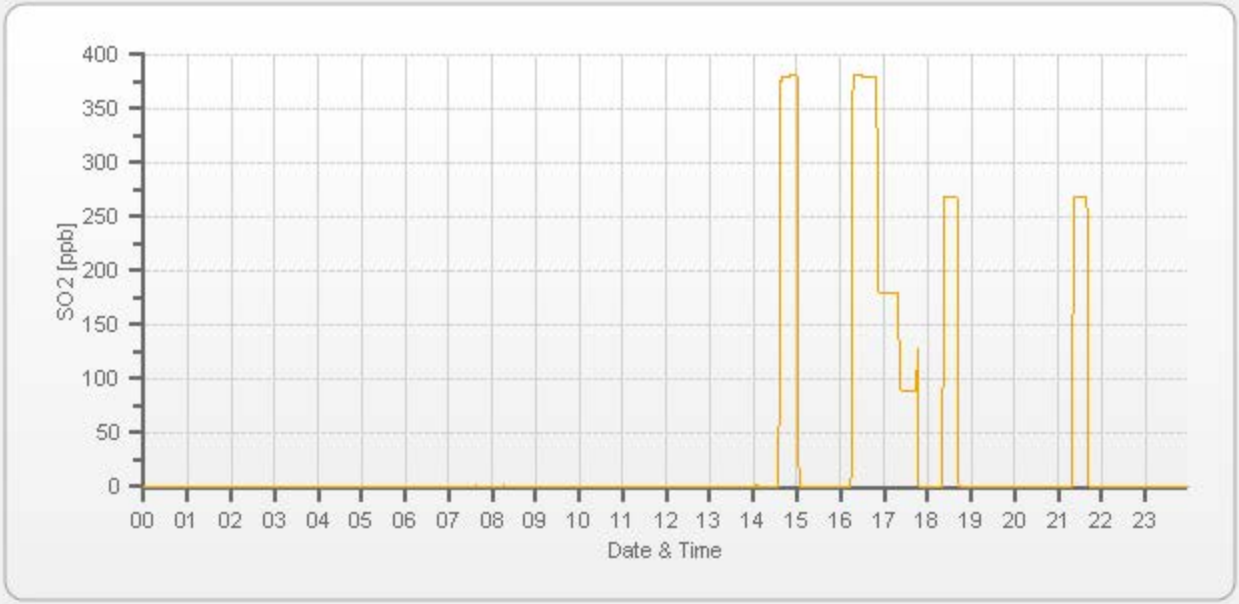
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
3999		3999	0.00	0.5	0		
3940	60.56	4000	379.99	381.3	380	0.998	1.000
3973	28.63	4001	179.62	n/a	179.1	n/a	1.003
3990	14.33	4004	89.84	n/a	89	n/a	1.009

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.001	-0.1%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.


SO2[ppb] Station: AQHI Grimshaw Daily: 11-07-2022 Type: AVG 1 Min. [1 Min.]
SO2 [ppb]
400
350
300
250
200
150
100
50
0
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
SO2 [ppb]

TRS Analyzer Calibration by Dilution

DATE:	11-Jul-2022	PREVIOUS CALIBRATION DATE:	16-Jun-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	0.999
CLIENT:	PRAMP	TEMPERATURE (°C):	21.6
LOCATION:	Grimshaw	BAROMETRIC (mBar):	948
PURPOSE	Routine	START TIME (MST):	13:49
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	18:46

ANALYZER:

MAKE/MODEL	Teledyne T100U	RANGE	100 ppb
SERIAL #	132	FLOW (mL/min)	516
INITIAL		FINAL	
BKG/OFFSET	27	BKG/OFFSET	27.3
COEF/SLOPE	1.13	COEF/SLOPE	1.118
Expected (reference) Value	50.1	Expected (reference) Value	47.65

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
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):	420	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		
3999		3999	0.00	0.19	0		
3967	33.16	4000	78.00	77.7	78.01	1.006	1.000
3985	16.17	4001	38.02	n/a	38.34	n/a	0.992
3996	8.10	4004	19.03	n/a	19.21	n/a	0.991

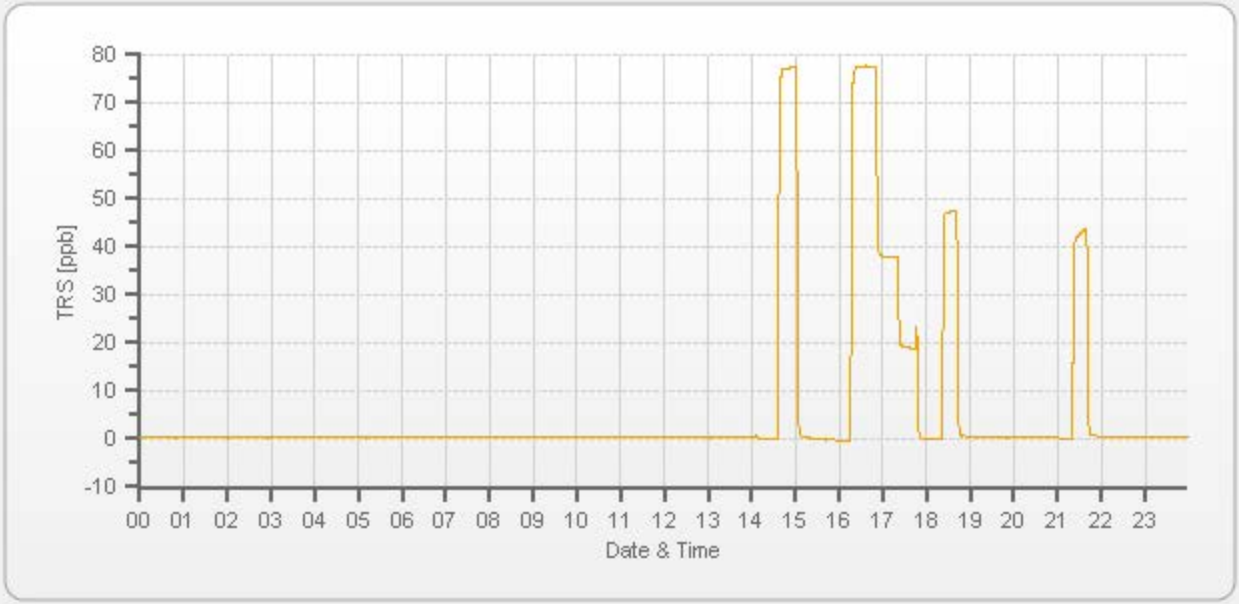
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.1%

COMMENTS:

Converter, CDNova CDN-101 #530. Sample filter changed. Monthly calibration - no issues.

TRS[ppb] Station: AQHI Grimshaw Daily: 11-07-2022 Type: AVG 1 Min. [1 Min.]



NOx Calibration by Dilution/Gas-Phase Titration

CALIBRATION:

				ANALYZER:			
DATE:	12-Jul-2022	PREVIOUS CALIBRATION DATE:	16-Jun-2022	MAKE/MODEL:	Teledyne T200	PREVIOUS CF.	
CLIENT:	PRAMP	TEMPERATURE (°C):	20.6	SERIAL #:	837	NOx	1.000
LOCATION:	Grimshaw	BAROMETRIC (mBar):	946	FLOW (mL/min)	443	NO	0.998
PURPOSE	Routine	START TIME (MST):	08:03	RANGE (ppb)	500	NO2	1.004
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:20	GPT FOR O3?		Yes	

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	CYLINDER ID:	EY0001716		HIGH ID:	n/a
MODEL:	2010	MODEL:	M701	NO/NOx (PPM):	49.2	49.4	HIGH EXPIRY:	n/a
ID:	17100415	ID:	916	CYLINDER (psi):	1800		LOW ID:	n/a
MFC CALIBRATION DATE:	28-Mar-2022	OXIDIZER ID:	n/a	EXPIRY DATE	11-Nov-2029		LOW EXPIRY:	n/a

CALIBRATION SETTINGS:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
BKG/OFFSET:	2	-0.3	n/a	BKG/OFFSET:	0.4	0.1	n/a
SLOPE/COEF/CE:	1.093	1.093	1.005	SLOPE/COEF/CE:	1.109	1.104	1.005

EXPECTED (REFERENCE) VALUE:

INITIAL	NOx	NO	NO2	FINAL	NOx	NO	NO2
	294.1	3.2	290.9		302.4	3.0	299.4

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	0.8	0.8	0.0	0.0	0.0	0.0						
4959	40.10	4999	394.7	396.3	1.6	403.0	402.6	-0.4	394.7	396.5	1.8	0.981	0.986		1.000	0.999	
4982	18.30	5000	180.1	180.8	0.7	n/a	n/a	n/a	178.5	179.4	0.9	n/a	n/a		1.009	1.008	
4990	9.10	4999	89.6	89.9	0.4	n/a	n/a	n/a	88.3	89.1	0.8	n/a	n/a		1.014	1.009	

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	40.10	4999	0	392.1	394.9	2.7				
AS-FOUND HIGH	40.10	4999	250	144.5	393.8	249.3	247.6	246.6	1.004	99.60%
ADJUSTED HIGH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	**n/a**	**n/a**	n/a
MID	40.10	4999	154	239.2	394.5	155.3	152.9	152.6	1.002	99.80%
LOW	40.10	4999	50	338.7	395.4	56.8	53.4	54.1	0.987	101.31%
NO2 adjustment not required.									AVERAGE:	100.24%

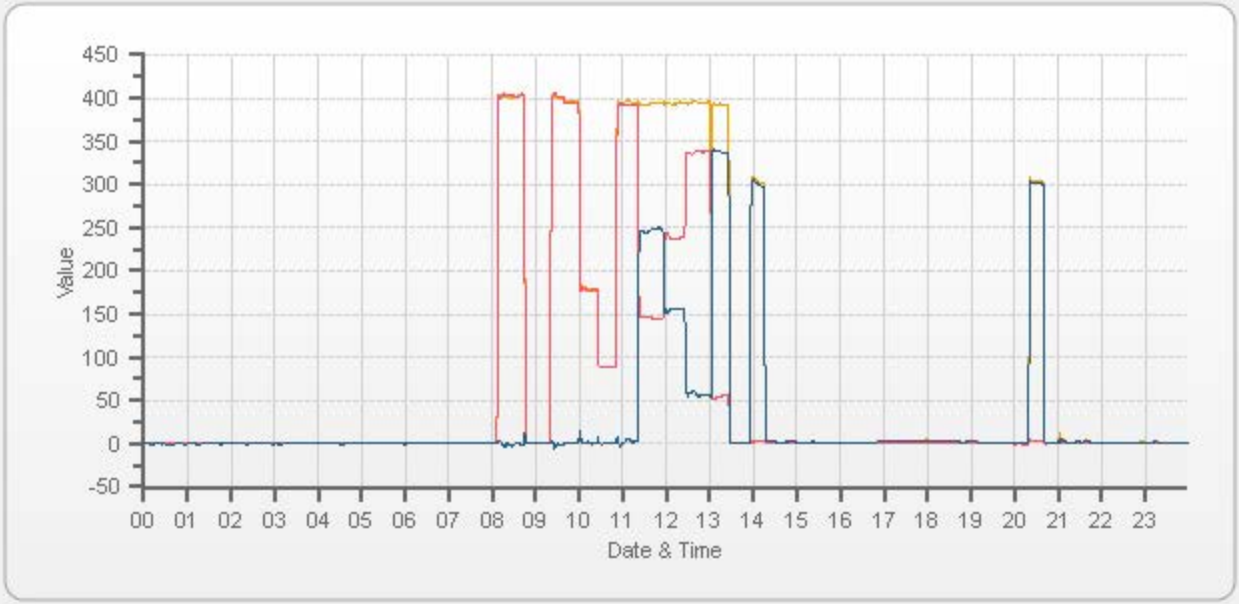
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
NO	1.000	1.001	-0.17%
NOx	1.000	1.001	-0.14%
NO2	1.000	0.991	0.23%

COMMENTS:

Extra O3 SETPOINT = 340; NO DROP/O3 = 336.2

Station: AQHI Grimshaw Daily: 12-07-2022 Type: AVG 1 Min. [1 Min.]



Ozone Calibration by Direct GPT

DATE:	12-Jul-2022	PREVIOUS CALIBRATION DATE:	16-Jun-2022
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	23.8
LOCATION:	Grimshaw	BAROMETRIC (mBar):	943
PURPOSE	Removal/Shut-down	START TIME (MST):	13:36
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	15:47

ANALYZER:

MAKE/MODEL	API 400A	RANGE	500 ppb
SERIAL #	445	FLOW (mL/min)	816
INITIAL		FINAL	
BKG/OFFSET	-2.6	BKG/OFFSET	n/a
COEF/SLOPE	0.998	COEF/SLOPE	n/a
Expected (reference) Value	411.8	Expected (reference) Value	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	API
MODEL:	2010	MODEL:	M701
ID:	17100415	ID:	916
MFC CALIBRATION DATE:	28-Mar-2022	OXIDIZER ID:	n/a
	CALIBRATION METHOD:	Direct GPT	
GPT DATE:	12-Jul-2022	GPT END TIME:	13:26

CALIBRATION PARAMETERS:

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4999		4999	0.0	0.0	n/a		
4999		4999	336.2	346.7	n/a	0.970	n/a
4999		4999	152.9	158.9	n/a	0.962	n/a
4999		4999	53.4	56.1	n/a	0.953	n/a

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.030	0.1%

COMMENTS:

Zero is noisy. Shutdown passed.

Ozone Calibration by Direct GPT

DATE:	12-Jul-2022	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	O3	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	23.8
LOCATION:	Grimshaw	BAROMETRIC (mBar):	943
PURPOSE	Install/Post-Repair	START TIME (MST):	17:05
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	20:25

ANALYZER:

MAKE/MODEL	Teledyne T400	RANGE	500 ppb
SERIAL #	824	FLOW (mL/min)	760
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	-1.2
COEF/SLOPE	n/a	COEF/SLOPE	1.001
Expected (reference) Value	n/a	Expected (reference) Value	294.4

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Sabio	MAKE:	API
MODEL:	2010	MODEL:	M701
ID:	17100415	ID:	916
MFC CALIBRATION DATE:	28-Mar-2022	OXIDIZER ID:	n/a
	CALIBRATION METHOD:	Direct GPT	
GPT DATE:	12-Jul-2022	GPT END TIME:	13:26

CALIBRATION PARAMETERS:

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

CALIBRATION:

FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4999		4999	0.0	n/a	0.0		
4999		4999	336.2	n/a	336.2	n/a	1.000
4999		4999	152.9	n/a	153.4	n/a	0.997
4999		4999	53.4	n/a	53.3	n/a	1.002

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Install calibration - passed.


O3[ppb] Station: AQHI Grimshaw Daily: 12-07-2022 Type: AVG 1 Min. [1 Min.]
O3 [ppb]
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:	12-Jul-2022	PREVIOUS CALIBRATION DATE:	16-Jun-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	20.6
LOCATION:	Grimshaw	BAROMETRIC (mBar):	946
PURPOSE	Routine	START TIME (MST):	08:08
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	12:11

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1191032505	1079.1
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:	Environics	MAKE:	API	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:	916	CYLINDER (psi):	1270		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
	9.67	11.20	20.86		9.75	11.23	20.98

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						
2933	71.99	3005	14.57	13.38	27.94	14.51	13.23	27.74	14.57	13.38	27.96	1.004	1.011	1.007	1.000	1.000	0.999
2968	35.99	3004	7.28	6.69	13.97	n/a	n/a	n/a	7.28	6.70	13.99	n/a	n/a	n/a	1.001	0.998	0.999
2986	17.98	3004	3.64	3.34	6.98	n/a	n/a	n/a	3.63	3.36	6.99	n/a	n/a	n/a	1.003	0.995	0.999

LINEAR REGRESSION ANALYSIS:

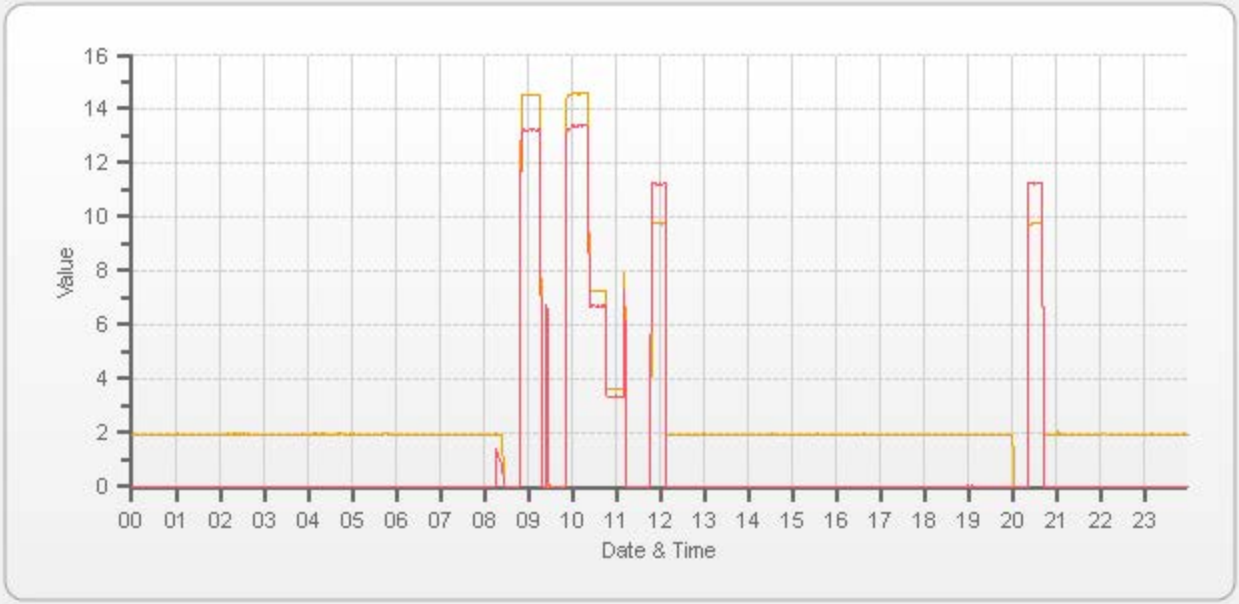
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	1.000	0.0%
NMHC	1.000	1.000	0.0%
THC	1.000	1.001	0.0%

Comments:

Sample filter changed. Monthly calibration - no issues.

Use Zero Chrom? **Yes**

Station: AQHI Grimshaw Daily: 12-07-2022 Type: AVG 1 Min. [1 Min.]



Teledyne T640 Audit/Calibration

Date/Previous Audit Date:	July 22, 2022	June 16, 2022	**Weather Conditions:**	Mainly sunny	
Company:	PRAMP		**Start Time (mst):**	8:00	
Station:	Grimshaw		**End Time (mst):**	8:57	
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/N201588 / Nov 01, 2022 **Temperature:** DeltaCal DC1 S/N201588 / Nov 01, 2022

Digital Manometer: DeltaCal DC1 S/N201588 / Nov 01, 2022 **Pressure:** DeltaCal DC1 S/N201588 / Nov 01, 2022

DIAGNOSTICS:

Ambient Pressure (mmHg)	707.6	Ambient Temp (°C)	16.0	ASC Heater Duty (%)	0.0
Box Temp (°C)	26.2	Current PMT HV (V)	1536	LED Temp (°C)	34.82
P3 Value	48	PMT Setting (V)	1542	Pump PWM (%)	37
Sample Flow (L/min)	5.02	Sample RH (%RH)	34.3	Sample Temp (°C)	25.8

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)	709.5	707.5	n/a	n/a	+/- 10 mm Hg
Ambient Temperature (°C)	14.70	15.8	n/a		+/- 2°C
Sample Flow (L/min)	4.95	5.01	4.97	4.97	+/-5% of T640x (e.g., 4.75 – 5.25 lpm)
Additional Monthly Maintenance :					***Completed***
				Inlet cleaned?	Yes
				Sample tubing inspected (inner and outer)?	Yes

Quarterly Audit/Calibration:

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

Item:	**Verification:**		**Calibration (if needed):**		**Tolerance**
	Reference	**T640x**	**Reference**	**T640x**	
Peak Channel	10.9	10.8	n/a	n/a	± 0.5
PMT Setting (V)	n/a	1542	n/a	n/a	n/a
Peak Channel Counts:	n/a	2926	n/a	n/a	n/a

Comments:

Alarms: 05/03/2022 - 11:32:41 System Reset;
06/30/2022 - 20:39:03 Perform Span Dust Check
Span Dust Checked - no issues, alarm cleared

Meteorological System Checklist

Date:	July 11, 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:	June 16, 2022
Parameter:	Temperature @ 2 metres
Reference Thermometer ID:	Fisher #160348895 expires September 4, 2022
Reference Temperature (^{o}C):	23.4
Station - Ambient Temperature (^{o}C):	23.4
Temperature Difference (^{o}C):	0.0

BAROMETRIC PRESSURE SENSOR CHECK

Previous check date:	June 16, 2022	
Reference Barometer ID:	deltaCal #201587, Expire: November 1, 2022	
Reference Pressure - Units/Reading:	millibar	943
Station Pressure - Units/Reading:	millibar	943.3
Pressure Tolerance +/- 15% of error:	802 - 1084	-0.03%

RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK

Previous check date:	June 16, 2022	
Reference Hygrometer ID:	Fisher #160348895 expires September 4, 2022	
Reference Hygrometer % RH- Reading:	37.71	
Station Hygrometer % RH- Reading:	36.80	
RH Tolerance +/- 15% of difference:	32.05 - 43.37	2.4%

ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK

WIND SPEED		WIND DIRECTION	
Previous check date:	June 16, 2022	Previous check date:	June 16, 2022
Wind Speed Observed (kph):	5~15	Wind Direction Observed:	W
Wind speed on Data Logger (kph):	7.9	Wind Direction on Data Logger:	W
		Wind Direction Pass/Fail?:	Pass

Comments

BP checked on July 22, 2022. 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.

Meteorological Sensor Audit/Calibration

Location Information

Company:	Bureau Veritas	**Performed By:**	Ferdinand Roy
Audit Location:	Grimshaw	**Reviewed By:**	Chris Wesson
Audit Date:	July 12, 2022	**Start/End Time (mst):**	13:57 / 16:52
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:**	0-200
Serial #:	174801	**Direction Voltage Output Range:**	n/a
Previous Cal/Audit Date:	n/a	**Direction Unit Output Range:**	0-360

Wind Calibrator Information

Calibrator I.D. and Expiry Date: RM Young 18801 id# CA01648 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	18.3	18.3	1.007
2000	36.9	36.7	36.7	1.004
3000	55.3	55.1	55.1	1.003
4000	73.7	73.6	73.6	1.002
5000	92.2	92.0	92.0	1.002
6000	110.6	110.5	110.5	1.001
7000	129.0	128.9	128.9	1.001
8000	147.4	147.3	147.3	1.001
9000	165.9	165.8	165.8	1.000
10000	184.3	184.2	184.2	1.001
		The audit meets AMD requirements.	**Average Correction Factor=**	**1.002**

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

Generated Wind Direction 0-360 (Up)	Generated Wind Direction 360-0 (Down)	Indicated Wind Direction 0-360 (Up)	Indicated Wind Direction 360-0 (Down)	Degrees Difference 0-360 (Up)	Degrees Difference 360-0 (Down)	Average Absolute Degrees Difference
0	355	0	354	0.2	0.8	0.5
30	330	27	331	3.3	-0.6	2.0
60	300	56	300	3.8	-0.3	2.1
90	270	87	268	2.8	1.9	2.3
120	240	117	236	3.3	4.0	3.7
150	210	147	204	2.6	5.6	4.1
180	180	177	175	3.3	4.6	4.0
210	150	207	145	3.1	4.8	4.0
240	120	238	115	2.4	5.0	3.7
270	90	270	85	0.3	5.1	2.7
300	60	300	57	-0.3	3.1	1.7
330	30	330	26	-0.3	3.6	2.0
355	0	354	0	0.8	0.1	0.5
The audit meets AMD requirements.			**Average Absolute Degrees Difference=**			**2.5**

Comments:

Output via RMY32400 serial interface

Peace River Area Monitoring Program

JULY 2022

Ambient Air Monitoring Calibration Report

- PEACE RIVER COMPLEX (PRC) STATION-

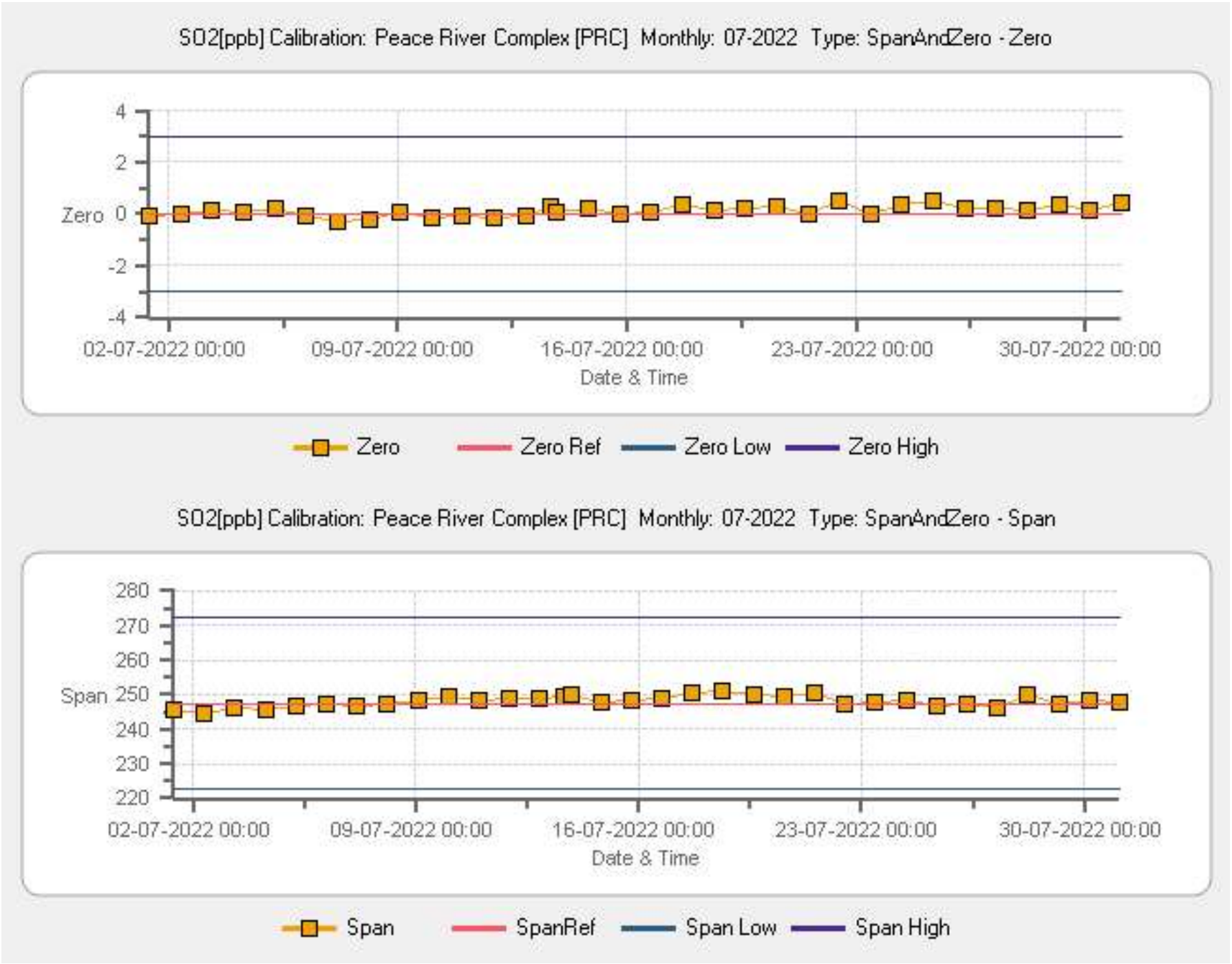
CAL-PRAMP-202207-01698

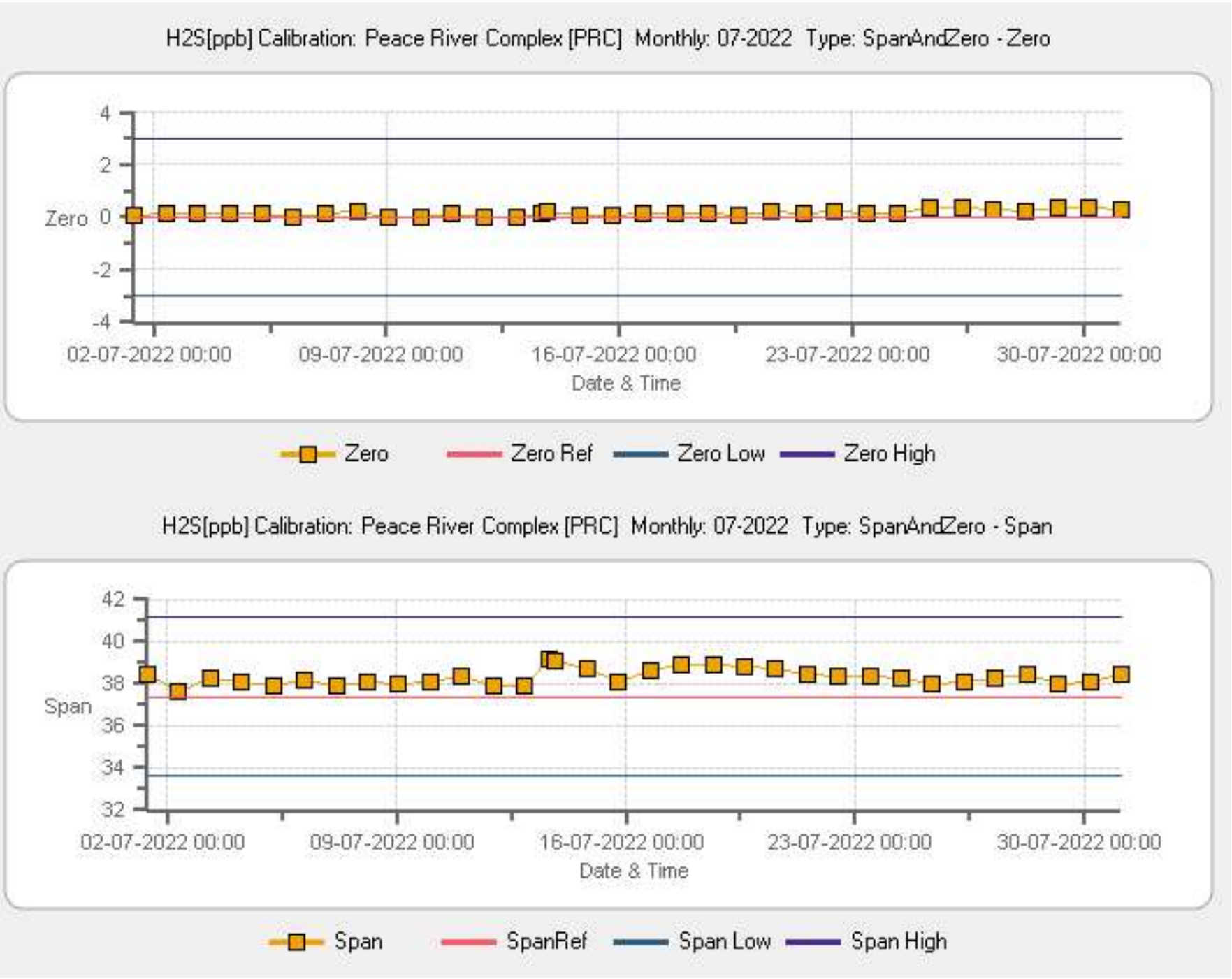
Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Bureau Veritas Canada

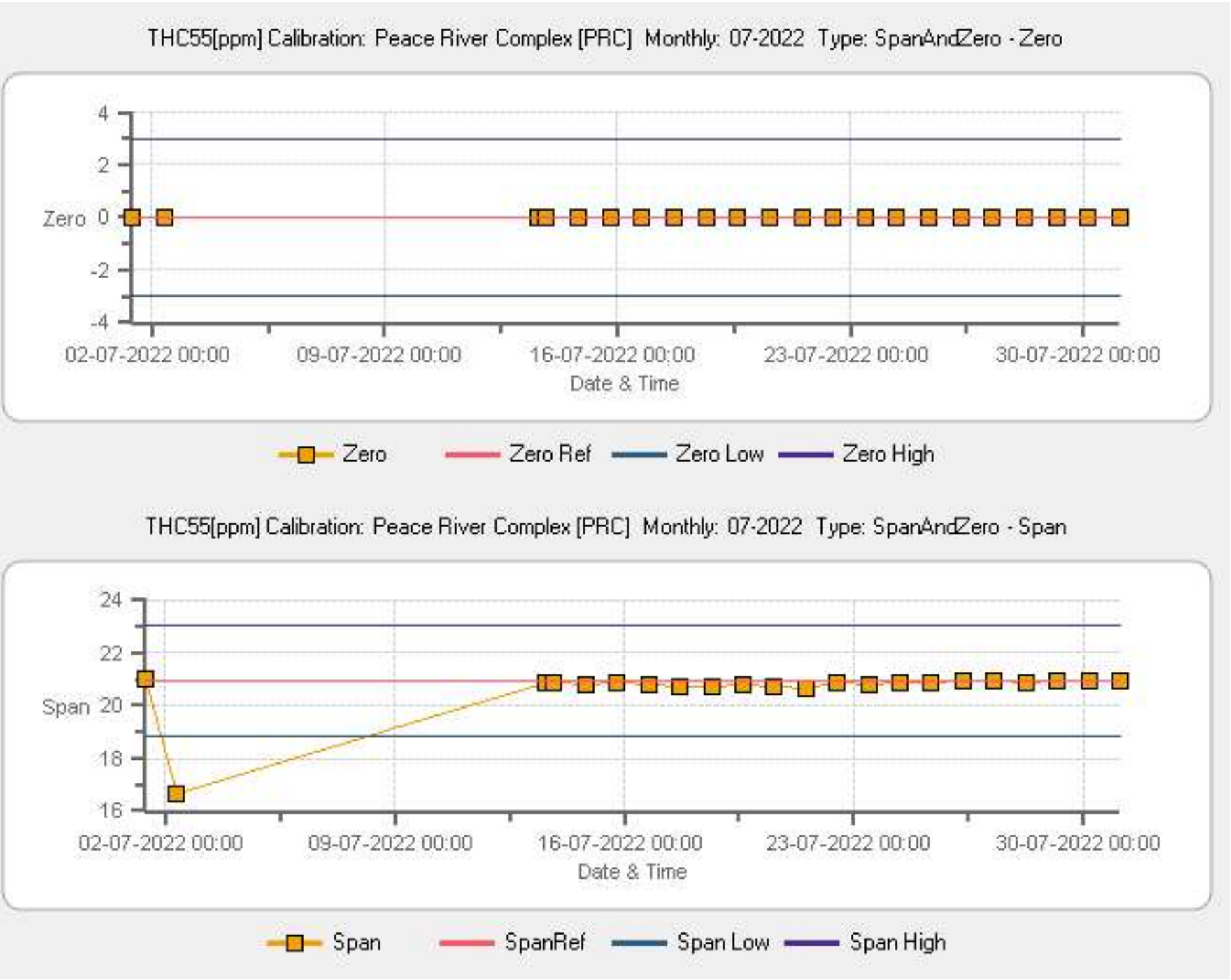
August 23, 2022

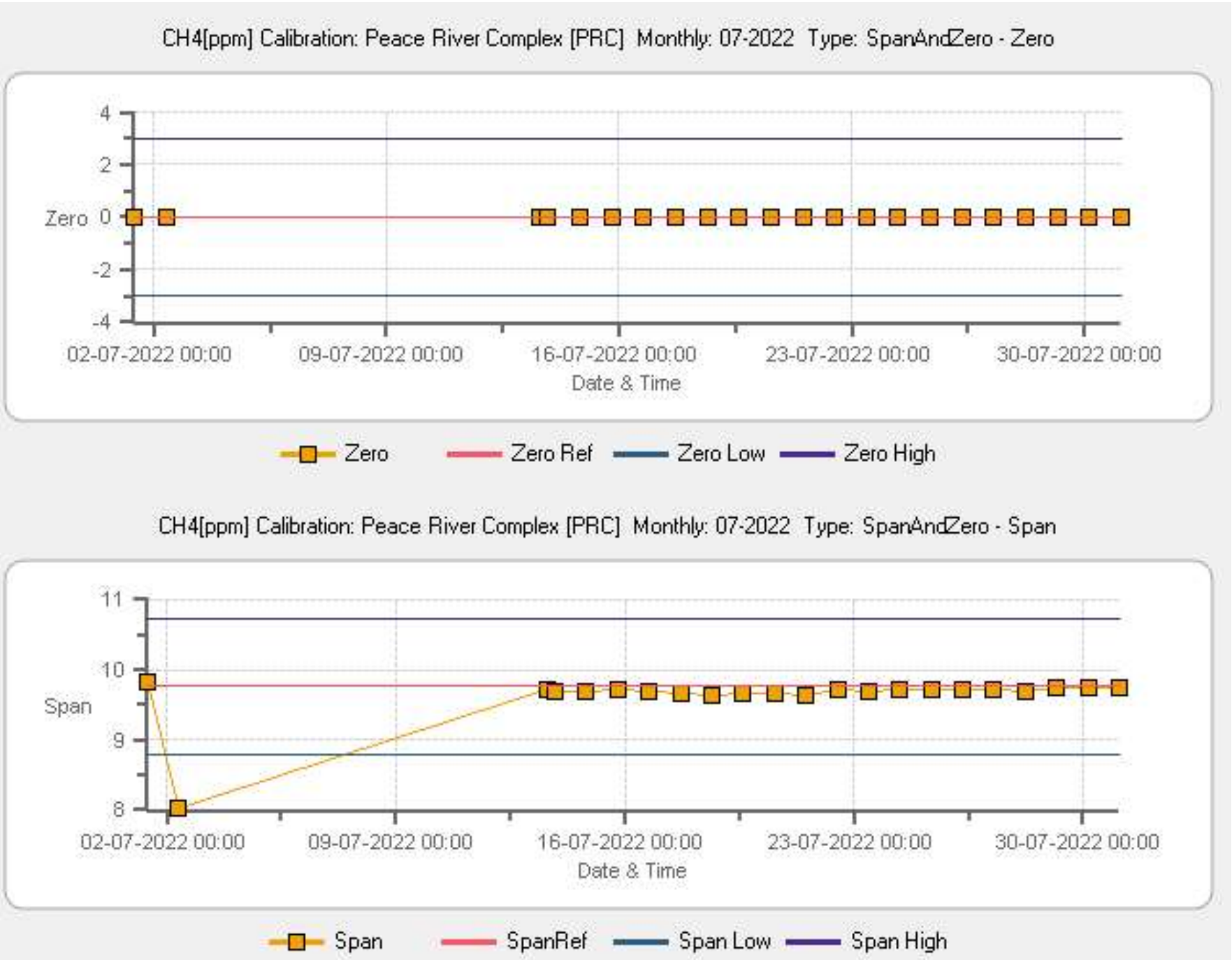
DAILY INTERNAL ZERO-SPAN CALIBRATION RECORDS

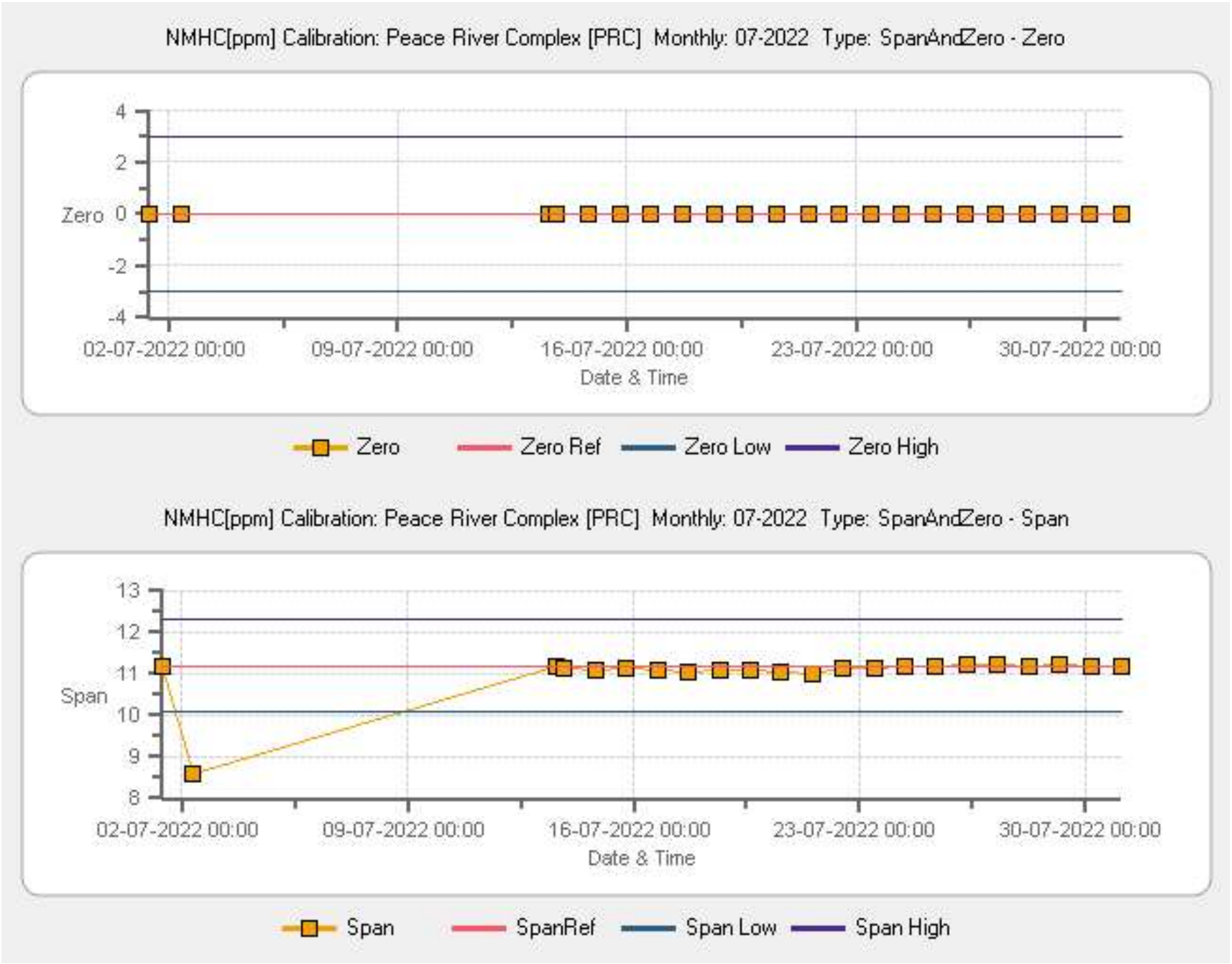

SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
SO2[ppb] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Span
280
270
260
Span 250
240
230
220
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
H2S[ppb] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Span
42
40
38
Span
36
34
32
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
TRS[ppb] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Span
60
55
Span
50
45
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
THC55[ppm] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Span
24
22
Span 20
18
16
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
CH4[ppm] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Span
11
10
Span
9
8
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High


NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Zero
4
2
Zero 0
-2
-4
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Zero
Zero Ref
Zero Low
Zero High
NMHC[ppm] Calibration: Peace River Complex [PRC] Monthly: 07-2022 Type: SpanAndZero - Span
13
12
11
Span
10
9
8
02-07-2022 00:00
09-07-2022 00:00
16-07-2022 00:00
23-07-2022 00:00
30-07-2022 00:00
Date & Time
Span
SpanRef
Span Low
Span High

MULTI-POINT CALIBRATION RECORDS

SO2 Analyzer Calibration by Dilution

DATE:	13-Jul-2022	PREVIOUS CALIBRATION DATE:	15-Jun-2022
PARAMETER:	SO2	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	19.1
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	937
PURPOSE	Routine	START TIME (MST):	10:06
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	16:03

ANALYZER:

MAKE/MODEL	Thermo 43i	RANGE	500 ppb
SERIAL #	1034746225	FLOW (mL/min)	426
INITIAL		FINAL	
BKG/OFFSET	18.7	BKG/OFFSET	18.2
COEF/SLOPE	1.071	COEF/SLOPE	1.068
Expected (reference) Value	247.4	Expected (reference) Value	249.6

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
MFC CALIBRATION DATE:	29-Mar-2022	OXIDIZER ID:	n/a
CALIBRATION GAS:		FLOWMETERS (if applicable):	
CYLINDER ID:	LL107286	HIGH ID	n/a
CONC (ppm):	25.10	EXPIRY DATE	n/a
CYLINDER (psi):	1850	LOW ID	n/a
EXPIRY DATE	02-Nov-2025	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		
4002		4002	0.00	-0.1	0		
3942	60.56	4003	379.75	381.2	379.9	0.996	1.000
3973	30.25	4003	189.68	n/a	189.1	n/a	1.003
3987	14.30	4002	89.72	n/a	89.6	n/a	1.001

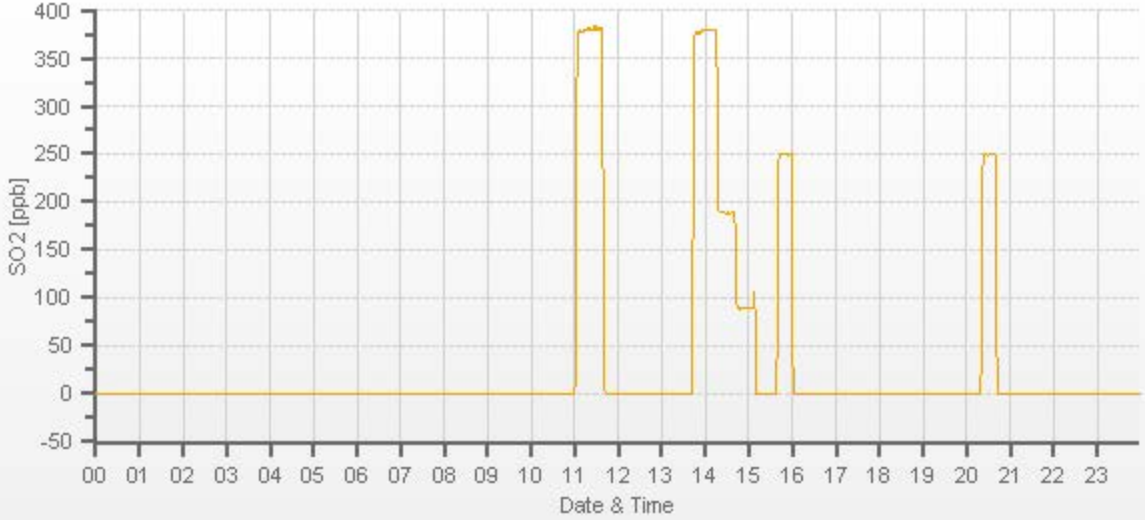
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.000	0.0%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.

SO2[ppb] Station: Peace River Complex [PRC] Daily: 13-07-2022 Type: AVG 1 Min. [1 Min.]



H2S Analyzer Calibration by Dilution

DATE:	13-Jul-2022	PREVIOUS CALIBRATION DATE:	15-Jun-2022
PARAMETER:	H2S	PREVIOUS CORRECTION FACTOR:	1.000
CLIENT:	PRAMP	TEMPERATURE (°C):	19.1
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	937
PURPOSE	Routine	START TIME (MST):	10:06
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	16:03

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1308857354	FLOW (mL/min)	857
INITIAL		FINAL	
BKG/OFFSET	13.5	BKG/OFFSET	13.5
COEF/SLOPE	1.005	COEF/SLOPE	1.024
Expected (reference) Value	37.4	Expected (reference) Value	39.2

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
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):	420	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:

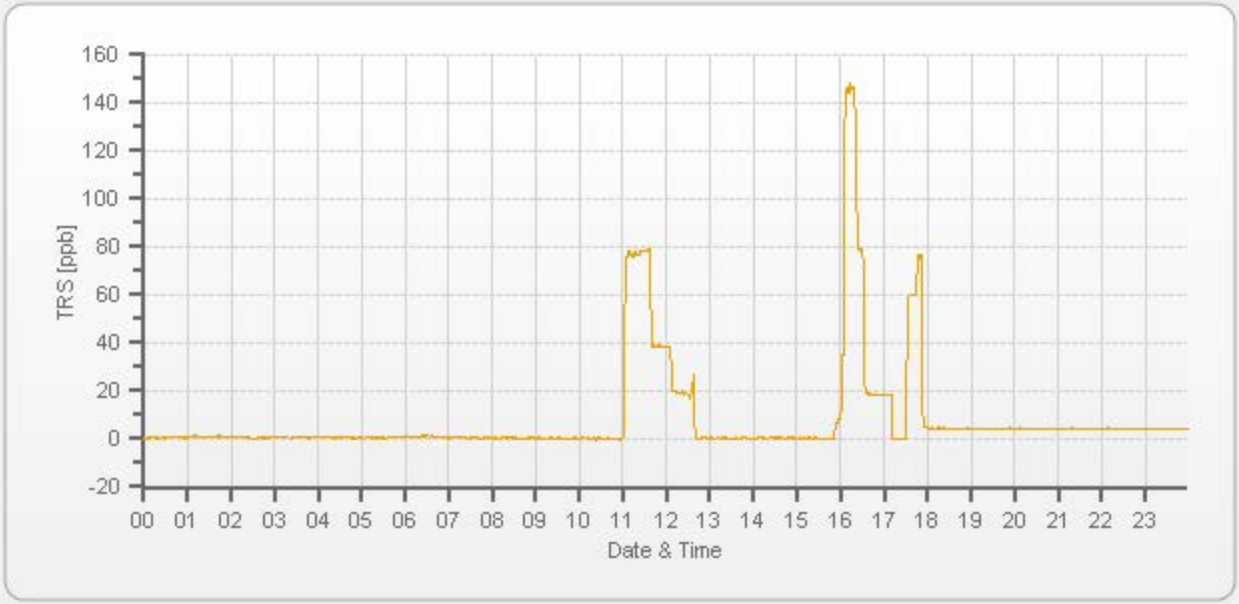
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4002		4002	0.00	-0.1	0		
3970	33.20	4003	78.05	76.7	78	1.016	1.001
3987	16.18	4003	38.04	n/a	38.3	n/a	0.993
3993	8.10	4002	19.04	n/a	19.4	n/a	0.981

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.998	0.2%

COMMENTS:

Sample filter changed. Monthly calibration - no issues.


TRS[ppb] Station: Peace River Complex [PRC] Daily: 13-07-2022 Type: AVG 1 Min. [1 Min.]
160
140
120
100
80
60
40
20
0
-20
TRS [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
TRS [ppb]

TRS Analyzer Calibration by Dilution

DATE:	13-Jul-2022	PREVIOUS CALIBRATION DATE:	15-Jun-2022
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	1.001
CLIENT:	PRAMP	TEMPERATURE (°C):	19.1
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	937
PURPOSE	Removal/Shut-down	START TIME (MST):	10:06
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	13:08

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1034746224	FLOW (mL/min)	719
INITIAL		FINAL	
BKG/OFFSET	24.7	BKG/OFFSET	n/a
COEF/SLOPE	0.921	COEF/SLOPE	n/a
Expected (reference) Value	51	Expected (reference) Value	n/a

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
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):	420	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		
4002		4002	0.00	-0.49	n/a		
3970	33.20	4003	78.05	78.13	n/a	0.993	n/a
3987	16.17	4003	38.01	37.75	n/a	0.994	n/a
3996	8.10	4004	19.04	18.04	n/a	1.027	n/a

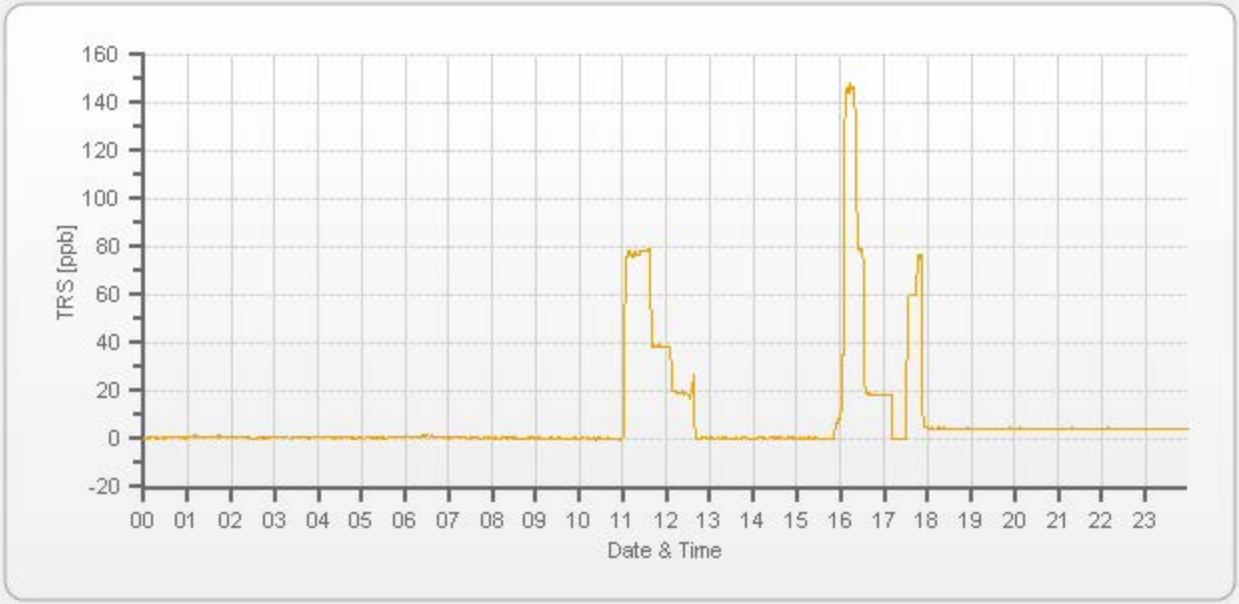
LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	1.010	-0.8%

COMMENTS:

Shutdown passed. Converter CD-NOVA CDN-101#506.

TRS[ppb] Station: Peace River Complex [PRC] Daily: 13-07-2022 Type: AVG 1 Min. [1 Min.]



TRS Analyzer Calibration by Dilution

DATE:	14-Jul-2022	PREVIOUS CALIBRATION DATE:	n/a
PARAMETER:	TRS	PREVIOUS CORRECTION FACTOR:	n/a
CLIENT:	PRAMP	TEMPERATURE (°C):	20.4
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	941
PURPOSE	Install/Post-Repair	START TIME (MST):	10:25
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	13:38

ANALYZER:

MAKE/MODEL	Thermo 450i	RANGE	100 ppb
SERIAL #	1034746224	FLOW (mL/min)	723
INITIAL		FINAL	
BKG/OFFSET	n/a	BKG/OFFSET	23.1
COEF/SLOPE	n/a	COEF/SLOPE	0.988
Expected (reference) Value	n/a	Expected (reference) Value	TBD

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:	
MAKE:	Environics	MAKE:	API
MODEL:	2000	MODEL:	M701
ID:	1991	ID:	916
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):	420	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:	10:51	SO2 Conc (ppb)	380
END TIME:	11:10	Analyzer Response (ppb)	0.3

CALIBRATION:

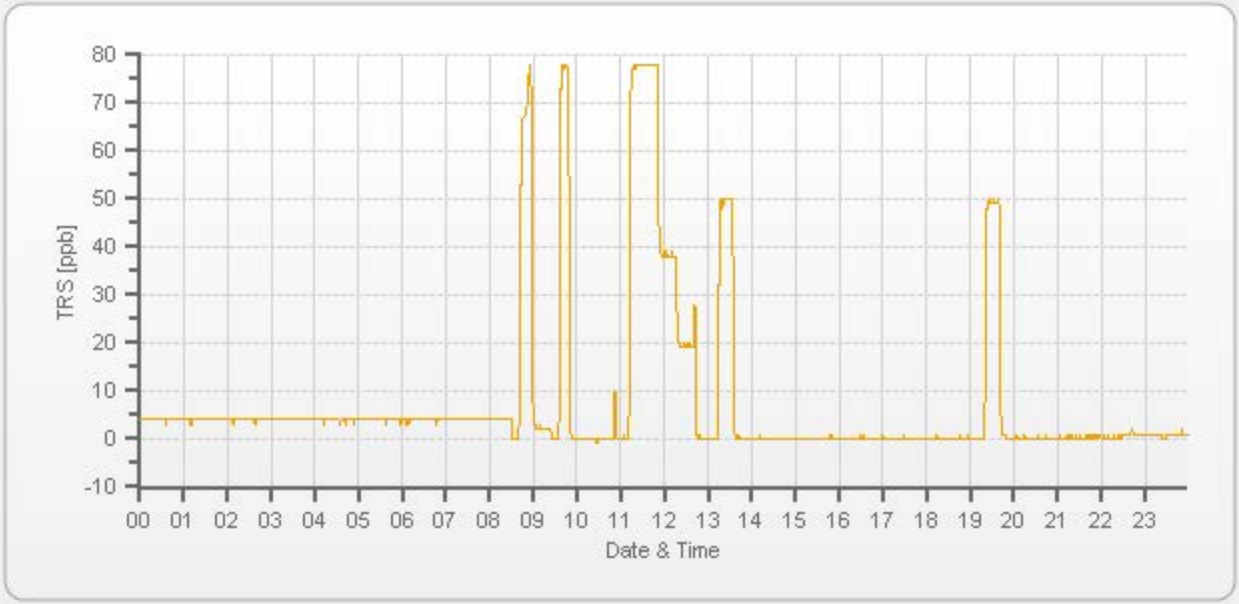
FLOW RATES (mL/min)			CONCENTRATION (ppb)			CORRECTION FACTOR	
			ACTUAL	INDICATED		Initial	Final
DILUENT	GAS	TOTAL		Initial	Final		
4002		4002	0.00	n/a	0		
3969	33.19	4002	78.02	n/a	77.99	n/a	1.000
3984	16.17	4000	38.03	n/a	38.45	n/a	0.989
3994	8.08	4002	19.01	n/a	19.57	n/a	0.971

LINEAR REGRESSION ANALYSIS:

	CORRELATION	SLOPE	INTERCEPT
VALUE	1.000	0.998	0.3%

COMMENTS:

Flash voltage and PMT Supply settings adjusted. Post-Repair calibration - passed. Converter CD-NOVA CDN-101#506.


TRS[ppb] Station: Peace River Complex [PRC] Daily: 14-07-2022 Type: AVG 1 Min. [1 Min.]
TRS [ppb]
80
70
60
50
40
30
20
10
0
-10
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Date & Time
TRS [ppb]

Methane/Non-Methane Analyzer Calibration by Dilution

CALIBRATION:

DATE:	13-Jul-2022	PREVIOUS CALIBRATION DATE:	15-Jun-2022
CLIENT:	PRAMP	TEMPERATURE (°C):	19.1
LOCATION:	Peace River Compliance	BAROMETRIC (mBar):	937
PURPOSE	Routine	START TIME (MST):	10:06
PERFORMED BY:	Ferdinand Roy	END TIME (MST):	14:33

ANALYZER:

VALUE	MAKE/MODEL	SERIAL	FLOW (mL/min)
	Thermo 55i	1022143392	1112.9
PARAMETER:	CH4	NMHC	THC
RANGE (ppm):	20	20	40
PREVIOUS CF:	0.997	0.998	0.998

CALIBRATION SYSTEM:

CALIBRATOR:		ZERO AIR:		CALIBRATION GAS:			FLOWMETERS (if applicable):	
MAKE:	Sabio	MAKE:	API	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:	916	CYLINDER (psi):	1250		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
	9.76	11.20	20.96		9.71	11.19	20.90

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
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	14.64	13.32	27.96	14.59	13.40	28.00	0.997	1.006	1.001	1.000	1.000	1.000
2963	36.00	2999	7.30	6.70	14.00	n/a	n/a	n/a	7.32	6.71	14.03	n/a	n/a	n/a	0.997	0.999	0.998
2982	18.00	3000	3.65	3.35	7.00	n/a	n/a	n/a	3.67	3.35	7.02	n/a	n/a	n/a	0.994	1.000	0.997

LINEAR REGRESSION ANALYSIS:

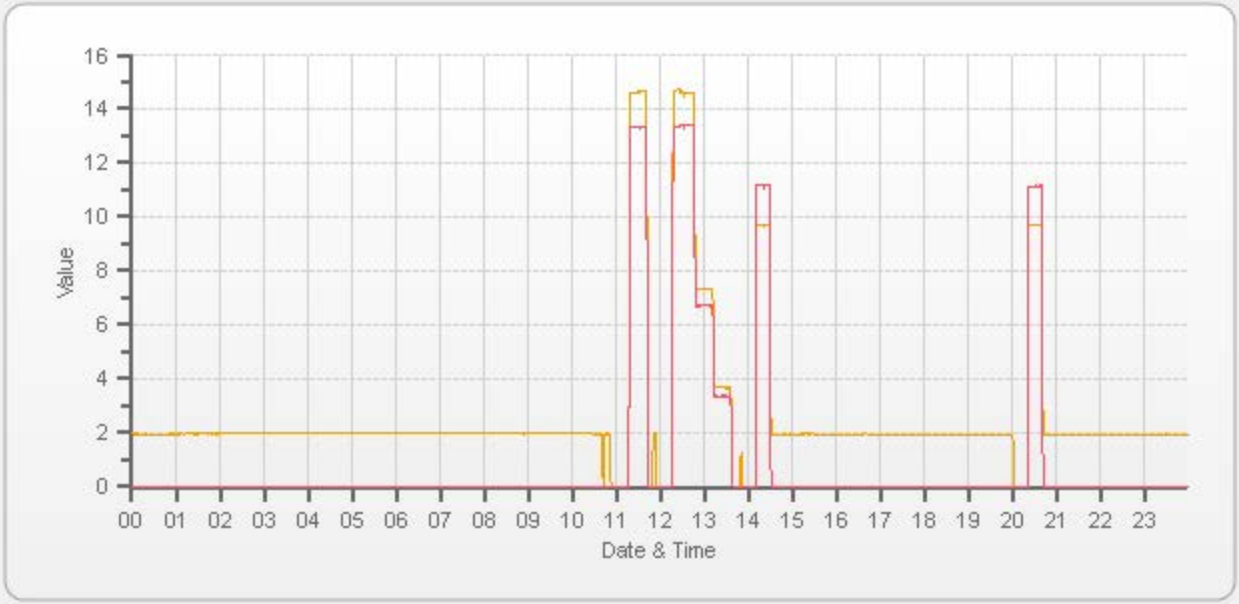
	CORRELATION	SLOPE	INTERCEPT
CH4	1.000	0.999	0.1%
NMHC	1.000	1.000	0.0%
THC	1.000	1.000	0.0%

Comments:

Sample filter changed. Monthly calibration - no issues.

Use Zero Chrom? **No**

Station: Peace River Complex [PRC] Daily: 13-07-2022 Type: AVG 1 Min. [1 Min.]



Meteorological System Checklist

Date:	July 14, 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:	June 15, 2022		
Parameter:	Temperature @ 2 metres		
Reference Thermometer ID:	Fisher #160348895 expires September 4, 2022		
Reference Temperature (^{o}C):	16.5		
Station - Ambient Temperature (^{o}C):	16.7		
Temperature Difference (^{o}C):	-0.2		
BAROMETRIC PRESSURE SENSOR CHECK			
Previous check date:	May 18, 2022		
Reference Barometer ID:	deltaCal #201587, Expire: November 1, 2022		
Reference Pressure - Units/Reading:	millibar	937.2564	
Station Pressure - Units/Reading:	millibar	946	
Pressure Tolerance +/- 15% of error:	797 - 1078	-0.93%	
RELATIVE HUMIDITY (HYGROMETER) SENSOR CHECK			
Previous check date:	June 15, 2022		
Reference Hygrometer ID:	Fisher #160348895 expires September 4, 2022		
Reference Hygrometer % RH- Reading:	54.39		
Station Hygrometer % RH- Reading:	53.30		
RH Tolerance +/- 15% of difference:	46.23 - 62.55	2.0%	
ANEMOMETER - WIND SPEED & WIND DIRECTION SENSOR CHECK			
WIND SPEED		WIND DIRECTION	
Previous check date:	June 15, 2022	Previous check date:	June 15, 2022
Wind Speed Observed (kph):	10~20	Wind Direction Observed:	SW
Wind speed on Data Logger (kph):	19.1	Wind Direction on Data Logger:	SW
		Wind Direction Pass/Fail?:	Pass

Comments

No issues. BP checked on July 21, 2022

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

JULY 2022

Monthly Ambient Air Quality Monitoring Integrated Sampling Report

PRAMP-202207-INTEGRATED

August 23, 2022

Pages may be left blank for double-sided printing

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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

August 23, 2022

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

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

Enclosed is the July 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 Varsity 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 July 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.
  - No NMHC canister events were recorded in July.

- **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.
  - The sample media for sampling period of July and August were installed on June 30, and they are schedule to be removed in late August.

- **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 July 1 and were removed on August 1.

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

August 23, 2022

INTEGRATED SAMPLING RESULTS SUMMARY

- **Passive analytical results**

	H_2S		SO_2	
Minimum (ppb)	0.28	#2	0.1	#12
Maximum (ppb)	1.47	#13	0.4	#1
Average (ppb)	0.52	-	0.28	-

ANALYTICAL SAMPLING RESULTS

Passives

PEACE RIVER AREA MONITORING PROGRAM

PRC Site - July 2022

Passive Results

	H_2S		SO_2	
Minimum (ppb)	0.28	#2	0.1	#12
Maximum (ppb)	1.47	#13	0.4	#1
Average (ppb)	0.52	-	0.28	-

No.	Calculated Value	Calculated Value
1	0.43	0.4
2	0.28	0.4
3	0.45	0.4
4	0.75	0.4
7	0.38	0.3
8	0.37	0.2
9	0.39	0.2
10	0.49	0.2
11	0.54	0.2
12	0.40	0.1
13	1.47	0.4
14	0.33	0.2
Reportable Detection Limit (RDL)	**0.02**	**0.1**

End of Report

Peace River Area Monitoring Program

JULY 2022

Ambient Air Monitoring

Certified Laboratory Analysis Report

LAB-PRAMP-202207

Operation and Maintenance:
Bureau Veritas Canada

Data Validation and Report:
Peace River Area Monitoring Program

August 23, 2022

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Passive Sampling 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

Page ___ of ___

Invoice To		Report To	Service Requested	Company Name / Project Name/LSD
Company Name		Name & Email Address	☐ RUSH (Please contact for TAT)	Company Name: Peace River
Contact Name			☐ REGULAR	Project Name/LSD: Peace River
Address				
Postal Code				
Phone/Fax#	Ph Fax			

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	01/07/22	8:00 am	01/08/22	07:15		X	X											
2						X	X											
3						X	X											
4						X	X											
7						X	X											
8						X	X											
9						X	X											
10						X	X											
11						X	X											
12						X	X											
13						X	X											
14		10:00 am		9:15 am		X	X											
Blank						X	X											
Blank						X	X											

Notes/Comments: Client 12521 / Scenario 18009

Sampled By Ba Guerin Phone/Email 618 1880 Received By Ba Guerin Date/Time ___ Project # AB 22-05-05

Date Shipped Aug. 1. 22 Signature ___ PO# C10150

14 SO2
14 H2S

Your Project #: 2022/07/01 - 2022/08/01
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: 2022/08/18
Report #: R3217761
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C258300
Received: 2022/08/08, 10:30

Sample Matrix: Air
Samples Received: 12

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis	12	2022/08/17	2022/08/17	PTC SOP-00150	Passive H2S in ATM
SO2 Passive Analysis	12	2022/08/10	2022/08/17	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
18 Aug 2022 08:44:28

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 #: C258300
Report Date: 2022/08/18

Peace River Area Monitoring Program Committee
Client Project #: 2022/07/01 - 2022/08/01
Site Location: PEACE RIVER COMPLEX
Sampler Initials: BG

RESULTS OF CHEMICAL ANALYSES OF AIR

Bureau Veritas ID		AZB644	AZB645	AZB646	AZB647	AZB648	AZB649	AZB650		
Sampling Date		2022/07/01 08:00	2022/07/01 08:00	2022/07/01 08:00	2022/07/01 08:00	2022/07/01 08:00	2022/07/01 08:00	2022/07/01 08:00		
	UNITS	1	2	3	4	7	8	9	RDL	QC Batch
Passive Monitoring										
Calculated H2S	ppb	0.43	0.28	0.45	0.75	0.38	0.37	0.39	0.02	A684315
Calculated SO2	ppb	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	A675940
RDL = Reportable Detection Limit										

Bureau Veritas ID		AZB651	AZB652	AZB653	AZB654	AZB655		
Sampling Date		2022/07/01 08:00	2022/07/01 08:00	2022/07/01 08:00	2022/07/01 08:00	2022/07/01 10:00		
	UNITS	10	11	12	13	14	RDL	QC Batch
Passive Monitoring								
Calculated H2S	ppb	0.49	0.54	0.40	1.47	0.33	0.02	A684315
Calculated SO2	ppb	0.2	0.2	0.1	0.4	0.2	0.1	A675940
RDL = Reportable Detection Limit								

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

GENERAL COMMENTS

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 #: C258300
Report Date: 2022/08/18

Peace River Area Monitoring Program Committee
Client Project #: 2022/07/01 - 2022/08/01
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
A675940	OZ	Spiked Blank	Calculated SO2			103	%	90 - 110
A675940	OZ	Method Blank	Calculated SO2		<0.1		ppb	
A684315	XSZ	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 #: C258300
Report Date: 2022/08/18

Peace River Area Monitoring Program Committee
Client Project #: 2022/07/01 - 2022/08/01
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

Yang Liu, Analyst II

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End of Report